

**COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

THE APPLICATION OF APC TOWERS IV, LLC, AND )  
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS )  
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC ) CASE NO. 2026-00017  
CONVENIENCE AND NECESSITY TO CONSTRUCT A )  
WIRELESS COMMUNICATIONS FACILITY IN THE )  
COMMONWEALTH OF KENTUCKY IN THE COUNTY )  
OF CRITTENDEN )

SITE NAME: GUM CREEK ROAD

\* \* \* \* \*

**APPLICATION FOR  
CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY  
FOR CONSTRUCTION OF A WIRELESS COMMUNICATIONS FACILITY**

APC Towers IV, LLC and Cellco Partnership, d/b/a Verizon Wireless and (“Co-Applicants”), by counsel, pursuant to (i) KRS §§278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submit this Application requesting issuance of a Certificate of Public Convenience and Necessity (“CPCN”) from the Kentucky Public Service Commission (“PSC”) to construct, maintain, and operate a Wireless Communications Facility (“WCF”) to serve the customers of the Co-Applicant with wireless communications services.

In support of this Application, Co-Applicants respectfully provide and state the following information:

1. The complete name and address of the Co-Applicants:
  - a. APC Towers IV, LLC, having a local address of 8601 Six Forks Rd; Raleigh, NC 27615

b. Cellco Partnership, d/b/a Verizon Wireless, having a local address of 2902 Ring Road, Elizabethtown, KY, 42701.

2. Co-Applicants:

a. APC Towers IV, LLC is a Delaware limited liability company and copies of the formulation document and the Statement of Good Standing from Delaware, and the Certificate of Authorization is on file with the Secretary of State of Commonwealth of Kentucky, are included as part of **Exhibit A**.

b. Cellco Partnership, d/b/a Verizon Wireless is a Delaware general partnership and a copy of the Statement of Good Standing from Delaware, and the Certificate of Assumed Name is on file with the Secretary of State of Commonwealth of Kentucky and included as part of **Exhibit A**.

3. Co-Applicants propose construction of an antenna tower for communications services, which is to be located in an area outside the jurisdiction of a planning commission, and Co-Applicants submit this application to the PSC for a certificate of public convenience and necessity pursuant to KRS §§ 278.020(1), 278.040, 278.650, 278.665, and other statutory authority.

4. The Co-Applicant operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Co-Applicants' application for FCC Registration and Licenses to provide wireless services are attached to this Application, described as part of **Exhibit B**, and the facility will be constructed and operated in accordance with applicable FCC regulations. The certified Antenna Structure Registration will be provided as soon as received.

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Co-Applicant's services to an area currently not served or not adequately served by the Co-Applicants by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. A statement from Co-Applicants' RF Design Engineers outlining said need is attached as **Exhibit Q** along with Propagation Maps attached as **Exhibit R**. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.

6. To address the above-described service needs, Co-Applicants propose to construct a WCF located at near the intersection of Frank Hill Road and KY-120 in Marion, KY 42061 (North Latitude: 37° 21' 46.88", West Longitude: 87° 55' 49.91"), on a parcel of land located entirely within the county referenced in the caption of this application. The property on which the WCF will be located is owned by Charles M. Baker to a Deed recorded in Deed Book D9 Page 582 recorded on December 26, 1959, in the office of the Crittenden County Clerk. The proposed WCF will consist of a 300-foot-tall guyed tower, with an approximately 5-foot-tall lightning arrestor attached at the top, for a total height of 305-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Co-Applicants' radio electronics equipment and appurtenant equipment. The Co-Applicants' equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit C** and **Exhibit D**.

7. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete along with a map showing the proposed location as well as the identified like facilities is attached as **Exhibit E**.

8. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of the Co-Applicant has also been included as part of **Exhibit C**.

9. Foundation design plans signed and sealed by a professional engineer registered in Kentucky and a description of the standards according to which the tower was designed are included as part of **Exhibit D**.

10. Co-Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Co-Applicant's antennas on an existing structure. When suitable towers or structures exist, Co-Applicant attempts to co-locate on existing structures such as communications towers or other structures capable of supporting Co-Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site. A statement from Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless's RF Design Engineer outlining exploration of co-location opportunities is attached as **Exhibit Q**.

11. A copy of the Application for the Federal Aviation Administration's ("FAA") is attached as **Exhibit F**. A copy of the Determination of No Hazard will be provided as soon as it is received.

12. A copy of the Kentucky Airport Zoning Commission (“KAZC”) documentation of Application is attached as **Exhibit G**. The KAZC Approval will be provided as soon as received.

13. A geotechnical engineering report was performed at the WCF site by Environmental Corporation of America, 1375 Union Hill Industrial Court, Suite A; Alpharetta GA 30004, dated January 12, 2026 and is attached as **Exhibit H**. The name and address of the geotechnical engineering firm and the professional engineer registered in Kentucky who prepared the report are included as part of **Exhibit H** and **Exhibit S**.

14. Clear directions to the proposed WCF site from the County seat are attached as **Exhibit I**. The name and telephone number of the preparer of **Exhibit I** are included as part of this exhibit.

15. Applicant, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreement is attached as **Exhibit J**.

16. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced. The tower and foundation drawings for the proposed tower submitted as part of **Exhibit D** bear the signature and stamp of a professional engineer registered in the Commonwealth of Kentucky. All tower designs meet or exceed the minimum requirements of applicable laws and regulations. The identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibit S**.

17. The Construction Manager for the proposed facility is Jay Parker and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibit S**.

18. As noted on the Survey attached as part of **Exhibit C**, the surveyor has determined that the tower site and access easement are not within any flood hazard area per Flood Hazard Boundary Map, Community Panel Number 21055C0275C, Dated June 16, 2009.

19. **Exhibit C** includes a map drawn to an appropriate scale that shows the location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower, every owner of real estate within 200 feet of the access road including intersection with the public street system and all abutting property owners (according to the records maintained by the County Property Valuation Administrator). Attached as **Exhibit K** is the Notification List with screen shots of the PVA records verified and updated using the Crittenden County PVA on January 19, 2026. **Exhibit C** also identifies every structure and every easement within 500 feet of the proposed tower or within 200 feet of the access road including intersection with the public street system.

20. Co-Applicants have sent certified notices to every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. Each notified property owner has been provided with a map of the location of the proposed construction, the PSC docket number for this application, the address of the PSC, and informed of his or her right to request intervention. A list of the notified property owners, verified on January 19, 2026, using the Crittenden County Kentucky Property Valuation Administration records and a copy of the form of the notice sent by certified mail to each landowner on January 20, 2026, are attached as **Exhibit K** and **Exhibit L**, respectively. Ten (10) notices were sent to surrounding property owners; to date eight (8) notice green cards have been returned with the remainder having been returned as undeliverable. Copies of the mailed envelopes and returned green cards are included in **Exhibit L**.

21. Co-Applicants have notified the applicable County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the County Judge/Executive of his/her right to request intervention. A copy of this notice along with a copy of the mailed envelope and returned green card is attached as **Exhibit M**.

22. Notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2) that measure at least 2 feet in height and 4 feet in width and that contain all required language in letters of required height, have been posted, one in a visible location on the proposed site and one on the nearest public road. Such signs shall remain posted for at least two weeks after filing of the Application, and a copy of the posted text is attached as **Exhibit N**.

23. A legal notice advertisement regarding the location of the proposed facility has been published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the newspaper legal notice advertisement is attached as **Exhibit O**.

24. The area of the proposed facility is in the unincorporated area of Crittenden County, Kentucky. The site is located near the intersection of Frank Hill Road and KY-120 in Marion, KY 42061. The site is buffered by a dense tree line to the north, tree lines to the east and south, and a wooded area to the west, across Frank Hill Road. The area is characterized by large agricultural tracts and the Tidewater River approximately 0.5 miles to the east. The subject parcel is generally flat and used as a cultivated field. There is no zoning or Plan Commission in this area of Crittenden County. The proposed facility is removed from any residential structures. The nearest residential structure is approximately 1,017 feet from the proposed tower site.

25. The process that was used by the Co-Applicant's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting

all other existing and proposed WCF facilities within the proposed network design area. Co-Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Co-Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the Co-Applicant. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit P**.

26. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area, as set out and documented in the RF Design Engineer's Statement of Need and Propagation Maps attached as **Exhibit Q** and **Exhibit R**, respectively. The proposed tower will expand and improve voice and data service for Verizon Wireless customers.

27. Attached hereto as **Exhibit T** please find an Affidavit of Certification for all information contained in this application.


28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

29. All responses and requests associated with this Application may be directed to:

Russell L. Brown  
Clark, Quinn, Moses, Scott & Grahn, LLP  
320 North Meridian Street, Suite 1100  
Indianapolis, IN 46204  
Phone: (317) 637-1321  
FAX: (317) 687-2344  
Email: rbrown@clarkquinnlaw.com

WHEREFORE, Co-Applicants respectfully request that the PSC accept the foregoing Application for filing and, having met the requirements of KRS §§278.020(1), 278.650, and 278.665 and all applicable rules and regulations of the PSC, grant a Certificate of Public Convenience and Necessity to construct and operate the WCF at the location set forth herein.

Respectfully submitted,



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Russell L. Brown  
Clark, Quinn, Moses, Scott & Grahn, LLP  
320 North Meridian Street, Suite 1100  
Indianapolis, IN 46204  
Phone: (317) 637-1321 / FAX: (317) 687-2344  
Email: rbrown@clarkquinnlaw.com  
Attorney for Cellco Partnership d/b/a Verizon Wireless

## **LIST OF EXHIBITS**

- A Applicant Entities
- B FCC Registration and License Documentation
- C Site Development Plan:
  - 500' Vicinity Map Legal Descriptions
  - Flood Plain Certification Site Plan
  - Vertical Tower Profile
- D Tower and Foundation Design
- E Competing Utilities, Corporations, or Persons List  
And Map of Like Facilities in Vicinity
- F FAA Application and Determination of No Hazard
- G KAZC Documentation of Application
- H Geotechnical Report
- I Directions to WCF Site
- J Real Estate Agreement
- K Notification Listing with PVA Verification
- L Property Owner Notification
- M County Judge/Executive notice
- N Posted Notices
- O Newspaper Legal Notice Advertisement
- P Radio Frequency Design Search Area
- Q Copy of RF Design Engineer Statement of Need
- R Propagation Maps
- S List of Qualified Professionals
- T Affidavit of Certification

**Commonwealth of Kentucky**  
**Michael G. Adams, Secretary of State**

Michael G. Adams  
Secretary of State  
P. O. Box 718  
Frankfort, KY 40602-0718  
(502) 564-3490  
<http://www.sos.ky.gov>

**Certificate of Authorization**

Authentication number: 343271  
Visit <https://web.sos.ky.gov/ftshow/certvalidate.aspx> to authenticate this certificate.

I, Michael G. Adams, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

**APC TOWERS IV, LLC**

, a limited liability company authorized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on February 22, 2023.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that an application for certificate of withdrawal has not been filed; and that the most recent annual report required by KRS 14A.6-010 has been delivered to the Secretary of State.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 3<sup>rd</sup> day of September, 2025, in the 234<sup>th</sup> year of the Commonwealth.



*Michael G. Adams*

Michael G. Adams  
Secretary of State  
Commonwealth of Kentucky  
343271/1262373

# Delaware

Page 1

The First State

I, CHARUNI PATIBANDA-SANCHEZ, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "APC TOWERS IV, LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE FIFTH DAY OF MAY, A.D. 2025.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "APC TOWERS IV, LLC" WAS FORMED ON THE THIRD DAY OF MARCH, A.D. 2022.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE BEEN PAID TO DATE.



6650861 8300

SR# 20251979186

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

A handwritten signature in black ink that reads "C. P. Sanchez".

Charuni Patibanda-Sanchez, Secretary of State

Authentication: 203603171

Date: 05-05-25

# Delaware

Page 1

The First State

*I, CHARUNI PATIBANDA-SANCHEZ, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "CELLCO PARTNERSHIP" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE FOURTEENTH DAY OF FEBRUARY, A.D. 2025.*

*AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE BEEN PAID TO DATE.*



3341134 8300

SR# 20250539476

You may verify this certificate online at [corp.delaware.gov/authver.shtml](http://corp.delaware.gov/authver.shtml)

A handwritten signature in black ink that reads "C. P. Sanchez". The signature is written in a cursive style.

Charuni Patibanda-Sanchez, Secretary of State

Authentication: 202935577

Date: 02-14-25



**Michael G. Adams**  
**Secretary of State**

**Certificate**

I, Michael G. Adams, Secretary of State for the Commonwealth of Kentucky, do hereby certify that the foregoing writing has been carefully compared by me with the original thereof, now in my official custody as Secretary of State and remaining on file in my office, and found to be a true and correct copy of

CERTIFICATE OF ASSUMED NAME OF VERIZON WIRELESS ADOPTED BY  
GENERAL PARTNERS OF CELLCO PARTNERSHIP FILED JUNE 21, 2006.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my  
Official Seal at Frankfort, Kentucky, this 10th day of May, 2023.



*Michael G. Adams*

Michael G. Adams  
Secretary of State  
Commonwealth of Kentucky  
kdcoleman/0641227 - Certificate ID: 290787

COMMONWEALTH OF KENTUCKY  
TREY GRAYSON  
SECRETARY OF STATE



0641227.07

Dcornish  
C226

Trey Grayson  
Secretary of State  
Received and Filed  
06/21/2006 12:06:09 PM  
Fee Receipt: \$20.00

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of  
Verizon Wireless

(Name under which the business will be conducted)

has been adopted by See Addendum

(Real name - KRS 365.015(1))

which is the "real name" of (YOU MUST CHECK ONE)

- |  |   |
|--|---|
| <input type="checkbox"/> a Domestic General Partnership                      | <input checked="" type="checkbox"/> a Foreign General Partnership           |
| <input type="checkbox"/> a Domestic Registered Limited Liability Partnership | <input type="checkbox"/> a Foreign Registered Limited Liability Partnership |
| <input type="checkbox"/> a Domestic Limited Partnership                      | <input type="checkbox"/> a Foreign Limited Partnership                      |
| <input type="checkbox"/> a Domestic Business Trust                           | <input type="checkbox"/> a Foreign Business Trust                           |
| <input type="checkbox"/> a Domestic Corporation                              | <input type="checkbox"/> a Foreign Corporation                              |
| <input type="checkbox"/> a Domestic Limited Liability Company                | <input type="checkbox"/> a Foreign Limited Liability Company                |
| <input type="checkbox"/> a Joint Venture                                     |   |

organized and existing in the state or country of Delaware, and whose address is

One Verizon Way Basking Ridge NJ 07920

Street address, if any

City

State

Zip Code

The certificate of assumed name is executed by  
NYNEX PCS Inc.

Jane A. Schepker  
Signature  
Jane A. Schepker-Assistant Secretary

Print or type name and title

June 15, 2006

Date

Signature

Print or type name and title

Date

### Addendum

The full name of the Partnership is Cellco Partnership; a Delaware general partnership with its headquarters located One Verizon Way, Basking Ridge NJ 07920-1097.

<b>General Partners of Cellco Partnership</b>	<b>Address</b>
Bell Atlantic Cellular Holdings, L.P.	One Verizon Way Basking Ridge, NJ 07920
NYNEX PCS Inc.	One Verizon Way Basking Ridge, NJ 07920
PCSCO Partnership	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless Incorporated	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless of Ohio Incorporated	One Verizon Way Basking Ridge, NJ 07920
PCS Nucleus, L.P.	2999 Oak Road, 7 <sup>th</sup> Floor Walnut Creek, CA 94597
JV PartnerCo, LLC	2999 Oak Road, 7 <sup>th</sup> Floor Walnut Creek, CA 94597

**FCC Form 854  
Main Form**

Approved by OMD – 3060-0139  
See instructions for public burden estimate

**Application for Antenna Structure Registration**

**Purpose of Filing**

1) Enter the application purpose: ( <b>AM</b> )	
<b>AM</b> – Amendment of a Pending Application <b>AU</b> – Administrative Update <b>CA</b> – Cancellation of an Antenna Structure Registration <b>DI</b> – Notification of an Antenna Structure Dismantlement <b>MD</b> – Modification of a Antenna Structure Registration	<b>NE</b> – Registration of a New Antenna Structure <b>NT</b> – Required Construction/Alteration Notification <b>OC</b> – Ownership Change <b>RE</b> – Registration of a Replacement Antenna Structure <b>WD</b> – Withdrawal of a Pending Application
2a) If the answer to 1 is AU, CA, DI, MD, NT, OC or RE, provide the FCC Antenna Structure Registration (ASR) Number.	FCC ASR Number:
2b) If the answer to 1 is AM or WD, provide the File Number of the pending application on file.	File Number: <b>A1347981</b>
2c) If the answer to 1 is MD or NT, provide the date the Antenna Structure was constructed or the date it was last altered (mm/dd/yyyy).	Date:
2d) If the answer to 1 is DI, provide the date the Antenna Structure was dismantled (mm/dd/yyyy).	Date:

**Antenna Structure Ownership Information**

3) Select one of the entity types:			
( ) Individual	( ) Unincorporated Association	( ) Trust	( ) Government Entity
( ) Corporation	( <b>X</b> ) Limited Liability Company	( ) General Partnership	( ) Limited Partnership
( ) Consortium	( ) Limited Liability Partnership	( ) Other: _____	
4) FCC Registration Number (FRN): <b>0023897788</b>		5) Assignor FCC Registration Number (FRN):	
6) First Name (if individual):	MI:	Last Name:	Suffix:
7) Legal Entity Name (if not an individual): <b>APC Towers IV, LLC</b>			
8) Attention To: <b>Jonathan Greene</b>		9) P.O. Box:	<b>And/Or</b>
10a) Street Address 1: <b>8601 Six Forks Road</b>		10b) Street Address 2: <b>Suite 250</b>	
11) City: <b>RALEIGH</b>	12) State: <b>NC</b>	13) Zip Code: <b>27615</b>	
14) Telephone Number (xxx-xxx-xxxx): <b>(919) 948-4788</b>		15) Fax Number: (xxx-xxx-xxxx):	
16) E-mail Address: <b>jgreene@apctowers.com</b>			

### Contact Representative Information

17) First Name (if individual): <b>Eric</b>	MI:	Last Name: <b>Johnson</b>	Suffix:
18) Business Name: <b>ECA-USA</b>			
19) Attention To: <b>Eric Johnson</b>	20) P.O. Box		And/Or
21a) Street Address 1: <b>1375 Union Hill Industrial Court</b>		21b) Street Address 2: <b>Suite A</b>	
22) City: <b>Alpharetta</b>	23) State: <b>GA</b>	24) Zip Code: <b>30004</b>	
25) Telephone Number (xxx-xxx-xxxx): <b>(770) 667-2040</b>		26) Fax Number: (xxx-xxx-xxxx):	
27) E-mail Address: <b>eric.johnson@eca-usa.com</b>			

### Antenna Structure Information

28a) Latitude (DD-MM-SS.S): <b>37- 21- 46.9</b>		28b) North or South: <b>North</b>	
29a) Longitude (DDD-MM-SS.S): <b>087- 55- 49.9</b>		29b) East or West: <b>West</b>	
30) Street Address or Geographic Location: <b>State Route 120</b>		31) City: <b>Marion</b>	
32) County: <b>CRITTENDEN</b>	33) State: <b>KENTUCKY</b>	34) Zip Code: <b>42064</b>	
35) Elevation of site above mean sea level (meters):			<b>114.9 meters</b>
36) Overall height above ground level (AGL) of the supporting structure without appurtenances:			<b>91.4 meters</b>
37) Overall height above ground level (AGL) of the antenna structure including all appurtenances:			<b>93.0 meters</b>
38) Overall height above mean sea level (add items 35 and 37 together):			<b>207.9 meters</b>
39a) Enter the type of structure on which the antenna will be mounted: ( <b>GTOWER</b> )			
<b>B</b> – Building <b>BANT</b> – Building with Antenna on Top <b>BMAST</b> – Building with Mast <b>BPIPE</b> – Building with Pipe <b>BPOLE</b> – Building with Pole <b>BRIDG</b> – Bridge <b>BTWR</b> – Building with Tower <b>GTOWER</b> – Guyed Structure Used For Communication Purposes <b>LTOWER</b> – Lattice Tower <b>MAST</b> – Mast <b>MTOWER</b> – Monopole <b>NNGTANN</b> – Guyed Tower Array		<b>NNLTANN</b> – Lattice Tower Array <b>NNMTANN</b> – Monopole Array <b>PIPE</b> – Any type of Pipe <b>POLE</b> – Any type of Pole <b>RIG</b> – Oil or Other Type of Rig <b>SIGN</b> – Any type of Sign or Billboard <b>SILO</b> – Any type of Silo <b>STACK</b> – Smoke Stack <b>TANK</b> – Any type of Tank (water, gas, etc.) <b>TREE</b> – When used as a support for an antenna <b>UPOLE</b> – Utility Pole/Tower used to provide service (electric, telephone, etc.)	
39b) Number of Towers in Array:		39c) Position of this Tower in the Array:	
40a) Array Center Latitude (DD-MM-SS.S):		40b) North or South	
41a) Array Center Longitude (DDD-MM-SS.S):		41b) East or West:	

**Proposed Marking and/or Lighting**

42) Enter the proposed marking and/or lighting: ( 7 )  
See Form 854 Item 42 Instructions for detailed tier and lighting information.

- |                |                |                 |
|----------------|----------------|-----------------|
| 1) None        | 4) FAA Style B | 7) FAA Style E  |
| 2) Paint Only  | 5) FAA Style D | 8) FAA Style F  |
| 3) Other _____ | 6) FAA Style C | 9) FAA Style A  |
|                |                | 10) FAA Style G |

**FAA Notification**

43) FAA Study Number:

44) Date Issued:

**Environmental Compliance**

45) Does the applicant request a waiver of the Commission's rules for environmental notice prior to construction due to an emergency situation?	( No ) Yes or No
46a) If the answer to 45 is No, is another federal agency taking responsibility for environmental review of the Antenna Structure?	( No ) Yes or No
46b) If the answer to 46a is Yes, indicate why:  1) The Antenna Structure is on Federal Land and the landholding agency is taking responsibility for the environmental review of the Antenna Structure.  2) Another federal agency has agreed with the FCC in writing to take responsibility for the environmental review of the Antenna Structure.	( ) 1 or 2
46c) If the answer to 46a is Yes, provide the name of the federal agency taking responsibility for the environmental review of the Antenna Structure.	Name:
47) If the answers to 45 and 46a are No, provide the National Notice Date for the application to be posted on the FCC's website (mm/dd/yyyy).	Date: <b>01/12/2026</b>
48) Is the applicant submitting an environmental assessment?	( No ) Yes or No
49) Does the applicant certify that grant of Authorizations at this location would not have a significant environmental effect pursuant to Section 1.1307 of the FCC's rules?	( ) Yes or No
50) If the answer to 49 is Yes, select the basis for this certification.  1) The construction is exempt from environmental notification (other than due to another agency's review) and it does not fall within one of the categories in Section 1.1307(a) or (b) of the FCC's rules?  2) The construction is exempt from environmental notification due to another agency's review, and the other agency has issued a Finding of No Significant Impact.  3) The environmental notification has been completed, and the FCC has notified the applicant that an Environmental Assessment is not required under Section 1.1307(c) or (d) of the FCC's rules, and the Construction does not fall within one of the categories in Section 1.1307(a) or (b) of the FCC's rules.  4) The FCC has issued a Finding of No Significant Impact.	( ) 1, 2, 3, 4
51) If the answer to 50 is 3 or 4, enter the date that Local Notice was provided (mm/dd/yyyy).	Date:

**Certification Statements**

- 1) The applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.
- 2) The applicant certifies that neither the applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. § 862, because of a conviction for possession or distribution of a controlled substance. See Section 1.2002(b) of the rules, 47 CFR § 1.2002(b), for the definition of "party to the application" as used in this certification.

**Signature** (Typed or Printed Name of Party Authorized to Sign) (For OC Applications, to be completed by Assignee)

52) First Name: <b>Jaime</b>	MI:	Last Name: <b>Thomas</b>	Suffix:
53) Title: <b>Project Manager</b>			
54) Signature: <b>Jaime Thomas</b>			55) Date: <b>Jan 06, 2026</b>

**Signature** (Typed or Printed Name of Party Authorized to Sign) (For OC Applications, to be completed by Assignor)

56) First Name:	MI:	Last Name:	Suffix:
57) Title:			
58) Signature:			59) Date:



8601 SIX FORKS ROAD, SUITE 250  
RALEIGH, NC 27615

NEW 300' GUYED  
W/ 5' LIGHTNING ROD  
TOTAL TOWER HEIGHT 305'  
VERIZON ANTENNA C.L. 295'

CELLCO PARTNERSHIP  
d/b/a VERIZON WIRELESS  
EV GUM CREEK ROAD  
FUZE PROJECT ID: 17576831  
MDG LOCATION ID: 5000931477

# KY-1822 EV GUM CREEK ROAD CELL SITE

FRANK HILL ROAD  
MARION, KY 42064  
CRITTENDEN COUNTY

**PROPERTY OWNER**  
APC TOWERS  
JONATHAN GREENE  
RALEIGH, NC 27615  
PH: (704) 724-8382  
EMAIL: JGREENE@APCTOWERS.COM

**FIRE DEPARTMENT**  
CRITTENDEN CO. SHERIFF  
200 INDUSTRIAL DRIVE  
SUITE D  
MARION, KY 42064  
PH: (270) 965-3400

**TOWER OWNER LEASE AREA**  
100'x100'  
(10,000 SQ. FT.)

**PROJECT TOTAL DISTURBED AREA**

FENCE COMPOUND: 4095 SQ. FT. (0.09 AC)  
ACCESS DRIVE: 1860 SQ. FT. (0.05 AC)  
GUY ANCHOR (X3): 1520 SQ. FT. (0.03 AC)  
GROSS AREA: 7475 SQ. FT. (0.17 AC)

**SITE COORDINATES AND ELEVATION**

LATITUDE - N37° 21' 46.88" / 37.36302  
LONGITUDE - W087° 55' 49.91" / -87.93053  
(NAD 83)

GROUND ELEVATION - ±377' AMSL  
(NAVD 88)

**PROJECT SUMMARY**

**SITE ACQUISITION**  
CAA WIRELESS  
TAMI PIKE  
3750 BRIAR BRIDGE ROAD  
MOUNT EDEN, KY 40046  
PH: (502) 693-1448  
EMAIL: TAMPIKE@CAAWIRELESS.COM

**UTILITIES - ELECTRIC**  
KENERGY  
BENCHMARK SERVICES, INC.  
RALPH WALLEN  
HUNTINGBURG, IN 47542  
PH: (812) 683-3049  
EMAIL: BENCHMARK@MW1WBC.COM

**CONSULTANT TEAM**

**DESIGN ENGINEERING**  
MISSION 1 COMMUNICATIONS  
DONALD HOEFELMEYER  
FORT WAYNE, IN 46804  
PH: (260) 436-3922  
EMAIL: DHOEFELMEYER@M1COMM.COM

**NOTE:** ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTOR UNLESS NOTED AS (VERIZON GC) WHICH SHALL INCLUDE VERIZON WIRELESS GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. GENERALLY DESCRIBED BELOW:

- TOWER OWNER (OWNER) SCOPE:  
- INSTALL NEW 300' TOWER w/ 5' LIGHTNING ROD (OSH - 305')
- W/ CABLE SUPPORT AND FOUNDATIONS
- PURCHASE OF VERIZON ANTENNA MOUNT SECTOR FRAME
- MOUNT AND DELIVERY TO VERIZON GC
- INSTALL NEW 60'x60' FENCED AGGREGATE COMPOUND AND ALL GENERAL SITE CONSTRUCTION ITEMS
- INSTALL NEW ELECTRICAL SERVICE TO SITE & UTILITY H-FRAME IN FENCED COMPOUND
- INSTALL NEW AGGREGATE ACCESS DRIVE
- INSTALL NEW TOWER & SITE SUBSURFACE GROUNDING SYSTEM
- INSTALL NEW VERIZON EQUIPMENT SUBSURFACE GROUNDING SYSTEM
- INSTALL NEW VERIZON 11'-6"x7'-6" CONCRETE EQUIPMENT PAD
- INSTALL NEW VERIZON 9'-6"x4'-0" CONCRETE GENERATOR PAD
- INSTALL NEW VERIZON GALV. UTILITY EQUIPMENT CANOPY, EQUIPMENT H-FRAME AND ICE BRIDGE, POSTS, & FOUNDATIONS
- INSTALL NEW VERIZON ELECTRIC SERVICE CONDUIT w/ PULL TAPES FROM UTILITY H-FRAME AND STUB-UP AT (VERIZON INSTALLED) INTEGRATED LOAD CENTER (ILC) LOCATION
- INSTALL NEW VERIZON CONDUITS w/ PULL TAPES FROM ILC LOCATION AND STUB-UP AT GENERATOR LOCATION
- INSTALL (2) NEW VERIZON WIRELESS ONLY FIBER 36"x24" HAND HOLES: (1) AT PUBLIC RIGHT-OF-WAY, (1) OUTSIDE FENCE COMPOUND
- INSTALL NEW VERIZON WIRELESS ONLY (3) 1 1/4" SOR-11 SMOOTH WALL HDPE FIBER INNERDUCTS WITH PULL TAPES AND TRACER WIRE FROM VERIZON WIRELESS ONLY HAND HOLE AT R.O.W TO VERIZON WIRELESS ONLY HAND HOLE OUTSIDE FENCE COMPOUND
- INSTALL NEW VERIZON WIRELESS ONLY (2) 1 1/4" SOR-11 SMOOTH WALL HDPE FIBER INNERDUCTS WITH PULL TAPES AND TRACER WIRE FROM VERIZON WIRELESS ONLY HAND HOLE OUTSIDE FENCE COMPOUND AND STUB AT VERIZON 12"x12"x8" FIBER JUNCTION BOX LOCATION ON EQUIPMENT H-FRAME

- VERIZON WIRELESS (VERIZON GC) SCOPE:  
- INSTALL NEW VERIZON 10'-0"x6'-4" PREFABRICATED GALV. RF EQUIPMENT CANOPY
- RADIO EQUIPMENT, ON OWNER INSTALLED TOWER EXTEND & CONNECT OWNER INSTALLED GROUND LEADS TO VERIZON EQUIPMENT & FACILITIES
- INSTALL NEW VERIZON CONDUITS w/ PULL TAPES FROM RF LOCATION TO VERIZON CONDUITS AND VERIZON EQUIPMENT CANOPY
- INSTALL NEW VERIZON CONDUITS w/ PULL TAPES FROM ILC LOCATION TO VERIZON EQUIPMENT CANOPY
- INSTALL VERIZON GENERATOR CIRCUITS FROM ILC LOCATION & EQUIPMENT PAD
- INSTALL NEW ELECTRIC SERVICE CONDUIT TO VERIZON INSTALLED UTILITY H-FRAME IN OWNER INSTALLED CONDUIT TO VERIZON INSTALLED INTEGRATED LOAD CENTER (ILC)
- INSTALL NEW OUTDOOR OVP AND CABLING ON VERIZON EQUIPMENT H-FRAME

**PROJECT DESCRIPTION**



LOCATION MAP PROVIDED BY BING MAPS

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 CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

BUILDING CODE	2018 KENTUCKY BUILDING CODE
STRUCTURAL CODE	TIA/IEA-222 - REVISION H
MECHANICAL CODE	2012 INTERNATIONAL MECHANICAL CODE (IMC 2012)
PLUMBING CODE	KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)
ELECTRICAL CODE	2017 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70-2008
FIRE/LIFE SAFETY CODE	2012 INTERNATIONAL FIRE CODE (2012 IFC)
ENERGY CODE	2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
FUEL GAS CODE	2009 NATIONAL FUEL GAS CODE (NFPA 54)

**ACCESSIBILITY REQUIREMENTS**  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2009 IBC BUILDING CODE.

NO WATER SEWER SERVICES TO/FROM THE SITE

**APPLICABLE CODES**

BEGINNING CRITTENDEN COUNTY SEAT, MARION, KY, TAKE COURT STREET NORTH TO:  
BELLVILLE STREET / KY-120, TURN RIGHT (EAST) 8.8 MILE  
FRANK HILL ROAD, TURN LEFT (NORTH) 475 FEET  
TO THE SITE ENTRANCE ON RIGHT (NORTH) SIDE OF THE ROAD

SITE ENTRANCE LAT-LON: N37° 21' 46.72" / 37.36298  
W087° 55' 51.86" / -87.93107

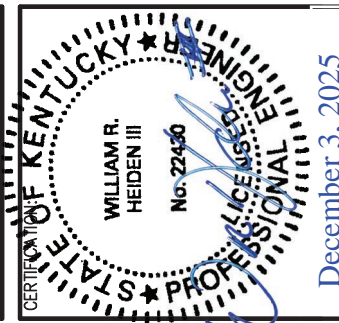
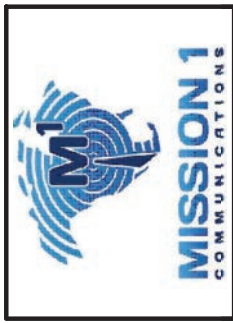
**DIRECTIONS TO SITE**



AERIAL MAP PROVIDED BY GOOGLE EARTH

## DRAWING INDEX

T-1	PROJECT INFORMATION, LOCATION MAPS, AND DRAWING INDEX
1 of 3	SURVEY PLAN
2 of 3	SURVEY PLAN
3 of 3	SURVEY PLAN
C-1	OVERALL SITE PLAN w/ AERIAL OVERLAY
C-1A	OVERALL SITE PLAN w/ TOWER DISTANCES TO PROPERTY LINES
C-1B	OVERALL SITE PLAN w/ TOWER DISTANCES TO RESIDENTIAL STRUCTURES
C-1C	TOWER AND ACCESS EASEMENT BUFFER MAP
C-1D	ADJOINING PROPERTY MAP
C-2	DETAILED SITE PLAN
C-3	DIMENSIONED SITE PLAN
D-1	VERIZON EQUIPMENT PAD AND CANOPY ELEVATIONS
TE-1	TOWER ELEVATION, NOTES AND DETAILS
Z-1	ALLEN COUNTY EXISTING STRUCTURE MAP



RELEASE	
REV	DATE
06-03-2025	LEASE EXHIBIT
11-17-2025	ZONING DRAWINGS

THIS DRAWING IS COPYRIGHTED AND IS THE SOLE PROPERTY OF THE OWNER. IT IS PRODUCED SOLELY FOR USE BY THE OWNER AND ITS AFFILIATES. REPRODUCTION OR USE OF THIS DRAWING AND/OR THE INFORMATION CONTAINED IN IT IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE OWNER.

SITE NAME:

KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE

SITE ADDRESS:  
FRANK HILL ROAD  
MARION, KY 42064

SHEET TITLE:

PROJECT INFORMATION,  
LOCATION MAPS,  
AND DRAWING INDEX

SHEET NO.:

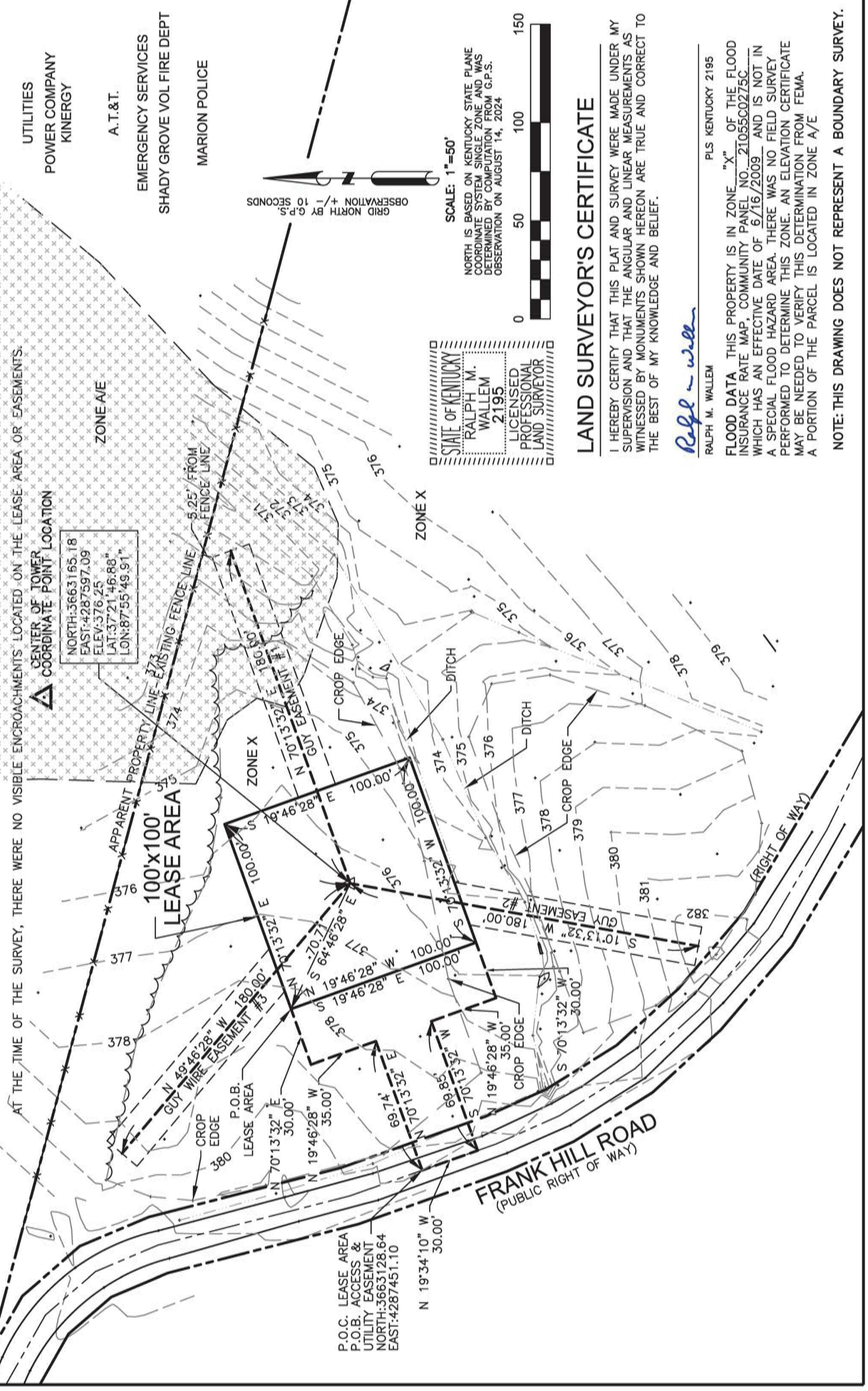
T-1



Call 811 or  
(800) 752-6007 Toll Free  
48 Hours Prior To Digging

<b>APC Towers</b>	
CELCO PARTNERSHIP, d/b/a	
<b>verizon</b>	
<b>MISSION 1 COMMUNICATIONS</b> FT. WAYNE, IN 46804	
<b>BENCHMARK SERVICES, INC.</b> Consulting Engineers Land Surveyors 318 North Main Street Huntingburg, IN 47542 (812) 683-3049 benchmark@bme-inc.com	
<b>SITE NUMBER:</b>	KY-1822
<b>SITE NAME:</b>	EV GUM CREEK ROAD
<b>SITE ADDRESS:</b>	STATE ROUTE 120 MARION, KY 42064
<b>LEASE AREA:</b>	10000 SQ. FT.
<b>PROPERTY OWNER:</b>	CHARLES M BAKER 255 FREDONIA QUARRY RD FREDONIA, KY 42411
<b>COUNTY:</b>	CRITTENDON COUNTY
<b>PARCEL NO.:</b>	101-00-00-017.00
<b>DEED BOOK PAGE:</b>	DB 343, PAGE 714
<b>LATITUDE:</b>	37°21'46.88" N
<b>LONGITUDE:</b>	87°55'49.91" W
<b>DWG BY:</b>	GVW
<b>CHKD BY:</b>	RMW
<b>DATE:</b>	10.8.25
<b>NO.</b>	<b>REVISION/ISSUE</b>
<b>TITLE:</b>	<b>SURVEY PLAN</b>
<b>SHEET:</b>	<b>1 OF 3</b>

**GENERAL NOTES:**  
 THE ACCESS & UTILITY EASEMENT TERMINATE AT THE CENTER OF ROAD (SAID LINE BEING THE MIDDLE OF FRANK HILL ROAD AND BEING PARCEL 101-00-00-017.00)  
 THE LEASE AREA, THE ACCESS & UTILITY EASEMENT, THE GUY ANCHORS APPEAR TO LIE ENTIRELY WITHIN THE PARENT PARCEL. NO BOUNDARY SURVEY WAS PERFORMED. NO MONUMENTATION COULD BE FOUND AT THE TIME OF THE SITE VISIT. THE PARENT DEED DESCRIPTION IS NOT PLOTTABLE AS DESCRIBED IN THE DEED. THE PROPERTY LINES SHOWN ARE THE APPARENT LINES AND WERE DERIVED FROM GOOGLE EARTH IMAGES ALONG WITH THE CRITTENDON COUNTY KENTUCKY GIS WEBSITE. THE FENCE LINE ON THE NORTH LINE OF THE TRACT IS ONLY ASSUMED TO BE THE PROPERTY LINE.  
 THE FLOOD ZONE AE IS SHOWN FROM A SCALED MAP. SHOULD A MORE ACCURATE LOCATION BE NECESSARY, THE SURVEYOR WILL NEED TO COMPLETE A FLOOD ZONE CERTIFICATE.



**CENTER OF TOWER COORDINATE POINT LOCATION**  
 NAD 1983 37°21'46.88" N  
 (37.36502274)  
 LONGITUDE: 87°55'49.91" W  
 (-87.93053036)  
 NAVD 1988 376.25 AMSL

**P.O.C. LEASE AREA**  
**P.O.B. ACCESS & UTILITY EASEMENT**  
 NORTH: 3663128.64  
 EAST: 4287451.10



CELCOO PARTNERSHIP, d/b/a

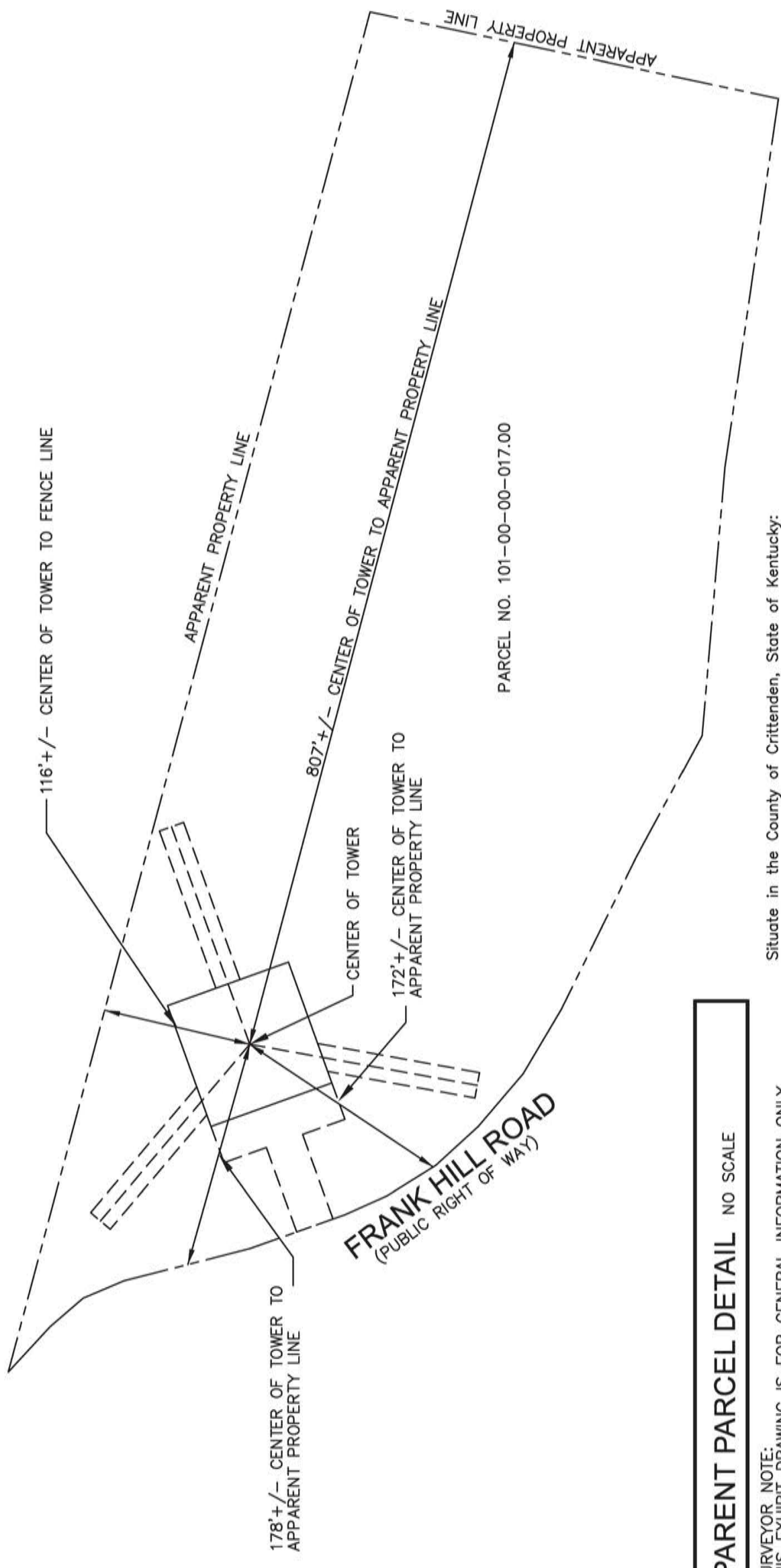


FT. WAYNE, IN 46804



**BENCHMARK SERVICES, INC.**  
Consulting Engineers  
Land Surveyors  
318 North Main Street  
Huntingburg, IN 47542  
(812) 683-3049  
benchmark@bms-inc.com

<b>SITE NUMBER:</b>	KY-1822	
<b>SITE NAME:</b>	EV GUM CREEK ROAD	
<b>SITE ADDRESS:</b>	STATE ROUTE 120 MARION, KY 42064	
<b>LEASE AREA:</b>	10000 SQ. FT.	
<b>PROPERTY OWNER:</b>	CHARLES M BAKER 255 FREDONIA QUARRY RD FREDONIA, KY 42411	
<b>COUNTY:</b>	CRITTENDON COUNTY	
<b>PARCEL NO.:</b>	101-00-00-017.00	
<b>DEED BOOK, PAGE:</b>	DB 343, PAGE 714	
<b>LATITUDE:</b>	37°21'46.88" N	
<b>LONGITUDE:</b>	87°55'49.91" W	
<b>DWG BY:</b>	GVW	
<b>CHKD BY:</b>	RMW	
<b>DATE:</b>	10.8.25	
<b>NO.</b>	<b>REVISION/ISSUE</b>	<b>DATE:</b>
<b>TITLE:</b>	<b>SURVEY PLAN</b>	
<b>SHEET:</b>	<b>2 OF 3</b>	



**PARENT PARCEL DETAIL NO SCALE**

**SURVEYOR NOTE:**  
THIS EXHIBIT DRAWING IS FOR GENERAL INFORMATION ONLY. DISTANCES SHOWN FROM THE CENTER OF TOWER TO PROPERTY LINES WERE DERIVED FROM PROVIDED PLATS, AND DESCRIPTIONS. THE DATA SHOWN IS BASED ON LIMITED ACCURACY MEASUREMENTS, THEREFORE NO LIABILITY WILL BE ASSUMED FOR ANY USE OF THIS DATA FOR CONSTRUCTION OF NEW IMPROVEMENTS AND/OR FENCES

Situate in the County of Crittenden, State of Kentucky:

Tract One:  
A certain tract or parcel of land lying on the waters of Piney Creek, a tributary of Piney Creek, in Crittenden County, Kentucky, and bounded as follows:

BEGINNING on a stone, a corner to Ida Marion Dean Baker in Tom Turner's line; thence with his line N 82 W 65 poles to a stone on the South bank of old road; thence with old road N 74 W 14 poles to a white oak, corner to Sam Morrow; thence with Sam Morrow's line W 30 1/2 poles to a stone; thence S 32 1/2 W 33 poles and 19 links to a stone, corner to Sam Morrow and Floyd McDowell; thence with Floyd McDowell's line S 39 1/2 W 60 poles to a stone, corner to Roy Lam; thence with his line N 9 1/2 E 58 poles to a black oak in Rosalie Akridge's line, corner to Roy Lamb; thence N 30 poles with her line to a stone in sout bank of Marion and Shady Grove Highway; thence E with line of right of way of said highway 104 poles to a stone in Ida Marion Dean Baker's line; thence N with her line 30 poles to the beginning, containing 55 acres, more or less.

There is excepted from the above boundary and not conveyed by this Deed .41 acres sold by Grantors to B. E. Stewart and wife, Hazel Stewart; on the 12th day of February, 1949, for complete description, see Deed Book 78, page 343.  
Less and Except that property conveyed in Deed recorded 07/21/1978 as Book D128 Page 505 of the Crittenden County records.  
Being the same Property Conveyed to Ida Marion Dean Baker and Charles Marion Baker, as Joint Tenants with Right of Survivorship, Grantee, from Reva Pigeon, a Single Woman, Grantor, by Deed Recorded 12/26/1959, as Book D90, Page 582 of the Crittenden County records.

Tract Two:

A certain tract or parcel of land with all improvements thereon located on the waters of Sugar Grove Creek and Big Piney Creek in Crittenden County Kentucky and bounded as follows:  
BEGINNING on a stake or stone on the North bank of Sugar Grove Creek, corner to J.N. Dean property; thence due North 90 poles to a stake or stone in Tom Turner's line and corner to J. N. Dean property; thence with Turner's line N 82 West 60 poles to a stake or stone in Turner's line; thence due South to a stake or stone on north bank of Sugar Grove Creek being approx. 115 poles; thence in a North-east direction with the meanders of Sugar Grove Creek to the place of beginning, containing 40 acres be the same more or less.  
Tax ID: 101-00-00-017.00

Being the same Property Conveyed to Ida Marian Dean, Grantee, from T.M. Dean, a Single Person, Grantor, by Deed Recorded 07/29/1944, as Book D70, Page 24 of the Crittenden County records.

**TITLE COMMITMENT**

Issuing Agent: Old Republic National Title Insurance Company

Loan ID Number: KY-1822- NEW CANDIDATE  
Commitment Number: 01-25031622-01T  
Property Address: : STATE ROUTE 120 MARION, KY 42064  
Commitment Date: 06/03/2025 at 7:00 a.m.

Proposed Insured: APC TOWERS IV, LLC  
The estate or interest to be insured: Leasehold  
The Title is, at the Commitment Date, vested in: IDA MARION DEAN BAKER AND CHARLES MARION BAKER, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP

and, as disclosed in the Public Records, has been since 12/26/1959The Land is described as follows: SEE ATTACHED EXHIBIT "A"

**SURVEY CERTIFIED TO:**

APC TOWER IV, LLC  
OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY

**SURVEYOR CERTIFICATION**

I CERTIFY THAT THIS PLAT AND SURVEY WERE MADE BY ME UNDER MY SUPERVISION, AND THAT THE ANGULAR AND LINEAR MEASUREMENTS, AS WITNESSED BY MONUMENTS SHOWN HEREON, ARE TRUE AND CORRECT TO THE BEST OF MY ABILITY AND BELIEF. THIS SURVEY AND PLAT MEETS OR EXCEEDS THE MINIMUM STANDARDS OF THE GOVERNING AUTHORITIES.

SURVEYOR STATEMENT—MY COMMENTS ARE BASED SOLELY ON THE TITLE DOCUMENT THAT HAVE BEEN SUPPLIED TO ME BY THE TITLE COMPANY. SINCE THE TITLE DOCUMENTS ARE FURNISHED FOR THE PARENT TRACT, OUR TOPOGRAPHIC SURVEY IS OF A PORTION OF THAT TRACT. MY COMMENTS ARE RESTRICTED TO EXCLUSIONS THAT I CAN DETERMINE AFFECT ONLY OUR PORTION OF THE PARENT TRACT. NO BOUNDARY SURVEY WAS PERFORMED ON THE PARENT TRACT. THUS IT IS NOT POSSIBLE TO DETERMINE WITH CERTAINTY EXCLUSIONS REFERENCING THE PARENT TRACT.

**SCHEDULE "B" SECTION II EXCEPTIONS**

- ITEM NO 1—(NOT A SURVEYOR RELATED ITEM)
- 2. FACTS WHICH WOULD BE DISCLOSED BY A COMPREHENSIVE SURVEY OF THE PREMISES HEREIN DESCRIBED.(BENCHMARK SERVICES, INC WAS HIRED TO CREATE LEASE AREA AND ACCESS & UTILITY EASEMENTS. NO BOUNDARY SURVEY WAS COMPLETED)
- ITEMS 3 THRU 7—(NOT A SURVEYOR RELATED ITEM)
- 8. Right of Way Easement unto South Central Bell Telephone Company, recorded 09/22/1980 as Book 135 Page 46 of the Crittenden County records. (APPEARS TO BE LOCATED ALONG STATE ROUTE 120 THEREFORE DOES NOT AFFECT THE LEASE AREA, THE ACCESS & UTILITY OR THE GUY WIRE EASEMENTS)
- 9. Easement unto BellSouth Telecommunications, Inc., a Georgia Corporation, recorded 05/18/2001 in Book 190 Page 13 of the Crittenden County records. (APPEARS TO BE LOCATED ALONG STATE ROUTE 120 THEREFORE DOES NOT AFFECT THE LEASE AREA, THE ACCESS & UTILITY OR THE GUY WIRE EASEMENTS)

**END OF SCHEDULE "B" ITEMS**

*Ralph M. Wallem*

RALPH M. WALLEM PLS KENTUCKY NO. 2195



**100x100' LEASE AREA DESCRIPTION**

A CERTAIN TRACT OR PARCEL OF LAND LYING ON THE WATERS OF DEAN BRANCH, A TRIBUTARY OF PINEY CREEK, IN CRITTENDEN COUNTY, KENTUCKY IN ACCORDANCE WITH A DEED RECORDED IN DEED BOOK 90, PAGE 582, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT IN THE CENTER OF FRANK HILL ROAD WITH THE COORDINATES OF N:3663128.64, E:4287451.10, KENTUCKY SINGLE COORDINATE ZONE; THENCE NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 69.74 FEET; THENCE NORTH 19 DEGREES 46 MINUTES 28 SECONDS WEST 35.00 FEET; THENCE NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 30.00 FEET TO THE NORTHWESTERN MOST LEASE CORNER AND BEING THE TRUE PLACE OF BEGINNING; THENCE CONTINUING NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 100.00 FEET; THENCE SOUTH 19 DEGREES 46 MINUTES 28 SECONDS EAST 100.00 FEET; THENCE SOUTH 70 DEGREES 13 MINUTES 32 SECONDS WEST 100.00 FEET; THENCE NORTH 19 DEGREES 46 MINUTES 28 SECONDS WEST 100.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 10,000 SQUARE FEET, (0.23 ACRES), MORE OR LESS.

**30' ACCESS & UTILITY EASEMENT DESCRIPTION**

A CERTAIN TRACT OR PARCEL OF LAND LYING ON THE WATERS OF DEAN BRANCH, A TRIBUTARY OF PINEY CREEK, IN CRITTENDEN COUNTY, KENTUCKY IN ACCORDANCE WITH A DEED RECORDED IN DEED BOOK 90, PAGE 582, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A POINT IN THE CENTER OF FRANK HILL ROAD WITH THE COORDINATES OF N:3663128.64, E:4287451.10, KENTUCKY SINGLE COORDINATE ZONE; THENCE NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 69.74 FEET; THENCE NORTH 19 DEGREES 46 MINUTES 28 SECONDS WEST 35.00 FEET; THENCE NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 30.00 FEET TO THE NORTHWESTERN MOST LEASE CORNER; THENCE ALONG THE LEASE LINE BEARING SOUTH 19 DEGREES 46 MINUTES 28 SECONDS EAST 100.00 FEET; THENCE SOUTH 70 DEGREES 13 MINUTES 32 SECONDS WEST 30.00 FEET; THENCE NORTH 19 DEGREES 46 MINUTES 28 SECONDS WEST 35.00 FEET; THENCE SOUTH 70 DEGREES 13 MINUTES 32 SECONDS WEST 69.85 FEET; THENCE NORTH 19 DEGREES 34 MINUTES 10 SECONDS WEST 30.00 FEET TO THE TRUE PLACE OF BEGINNING AND CONTAINING 5,094 SQUARE FEET, (0.12 ACRES), MORE OR LESS.

**GUY ANCHOR #1 EASEMENT DESCRIPTION**

A CERTAIN TRACT OR PARCEL OF LAND LYING ON THE WATERS OF DEAN BRANCH, A TRIBUTARY OF PINEY CREEK, IN CRITTENDEN COUNTY, KENTUCKY IN ACCORDANCE WITH A DEED RECORDED IN DEED BOOK 90, PAGE 582, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT IN THE CENTER OF FRANK HILL ROAD WITH THE COORDINATES OF N:3663128.64, E:4287451.10, KENTUCKY SINGLE COORDINATE ZONE; THENCE NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 69.74 FEET; THENCE NORTH 19 DEGREES 46 MINUTES 28 SECONDS WEST 35.00 FEET; THENCE NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 30.00 FEET TO THE NORTHWESTERN MOST LEASE CORNER; THENCE SOUTH 64 DEGREES 46 MINUTES 28 SECONDS EAST TO THE CENTER OF TOWER AND TRUE PLACE OF BEGINNING OF THIS 20 FOOT WIDE GUY WIRE EASEMENT; THENCE ON AND ALONG A LINE 10 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED BEARING NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 180.00 FEET TO THE TERMINUS.

**GUY ANCHOR #2 EASEMENT DESCRIPTION**

A CERTAIN TRACT OR PARCEL OF LAND LYING ON THE WATERS OF DEAN BRANCH, A TRIBUTARY OF PINEY CREEK, IN CRITTENDEN COUNTY, KENTUCKY IN ACCORDANCE WITH A DEED RECORDED IN DEED BOOK 90, PAGE 582, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT IN THE CENTER OF FRANK HILL ROAD WITH THE COORDINATES OF N:3663128.64, E:4287451.10, KENTUCKY SINGLE COORDINATE ZONE; THENCE NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 69.74 FEET; THENCE NORTH 19 DEGREES 46 MINUTES 28 SECONDS WEST 35.00 FEET; THENCE NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 30.00 FEET TO THE NORTHWESTERN MOST LEASE CORNER; THENCE SOUTH 64 DEGREES 46 MINUTES 28 SECONDS EAST TO THE CENTER OF TOWER AND TRUE PLACE OF BEGINNING OF THIS 20 FOOT WIDE GUY WIRE EASEMENT; THENCE ON AND ALONG A LINE 10 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED BEARING NORTH 10 DEGREES 13 MINUTES 32 SECONDS EAST 180.00 FEET TO THE TERMINUS.

**GUY ANCHOR #3 EASEMENT DESCRIPTION**

A CERTAIN TRACT OR PARCEL OF LAND LYING ON THE WATERS OF DEAN BRANCH, A TRIBUTARY OF PINEY CREEK, IN CRITTENDEN COUNTY, KENTUCKY IN ACCORDANCE WITH A DEED RECORDED IN DEED BOOK 90, PAGE 582, AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT A POINT IN THE CENTER OF FRANK HILL ROAD WITH THE COORDINATES OF N:3663128.64, E:4287451.10, KENTUCKY SINGLE COORDINATE ZONE; THENCE NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 69.74 FEET; THENCE NORTH 19 DEGREES 46 MINUTES 28 SECONDS WEST 35.00 FEET; THENCE NORTH 70 DEGREES 13 MINUTES 32 SECONDS EAST 30.00 FEET TO THE NORTHWESTERN MOST LEASE CORNER; THENCE SOUTH 64 DEGREES 46 MINUTES 28 SECONDS EAST TO THE CENTER OF TOWER AND TRUE PLACE OF BEGINNING OF THIS 20 FOOT WIDE GUY WIRE EASEMENT; THENCE ON AND ALONG A LINE 10 FEET ON BOTH SIDES OF THE FOLLOWING DESCRIBED BEARING NORTH 49 DEGREES 46 MINUTES 28 SECONDS EAST 180.00 FEET TO THE TERMINUS.



CELCOO PARTNERSHIP, d/b/a



FT. WAYNE, IN 46804



318 North Main Street  
Huntingburg, IN 47542  
(812) 683-3049  
benchmark@bms-inc.com

**SITE NUMBER:**  
KY-1822

**SITE NAME:**  
EV GUM CREEK ROAD

**SITE ADDRESS:**  
STATE ROUTE 120  
MARION, KY 42064

**LEASE AREA:**  
10000 SQ. FT.

**PROPERTY OWNER:**

CHARLES M BAKER  
255 FREDONIA QUARRY RD  
FREDONIA, KY 42411

**COUNTY:**  
CRITTENDON COUNTY

**PARCEL NO.:**  
101-00-00-017.00

**DEED BOOK PAGE:**  
DB 343, PAGE 714

**LATITUDE:** 37°21'46.88" N  
**LONGITUDE:** 87°55'49.91" W

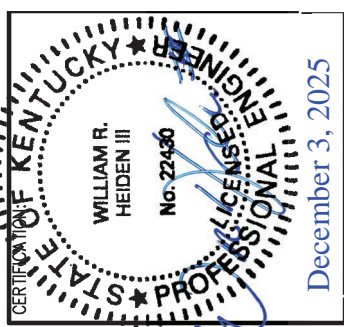
**DWG BY:** GYW  
**CHKD BY:** RMW  
**DATE:** 10.8.25

**NO.:**  
**REVISION/ISSUE:**  
**DATE:**

**TITLE:**

**SURVEY PLAN**

**SHEET:**  
**3 OF 3**



RELEASE	REV	DATE	DESCRIPTION
	06-03-2025		LEASE EXHIBIT
	11-17-2025		ZONING DRAWINGS

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SITE NAME:

**KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE**

SITE ADDRESS:

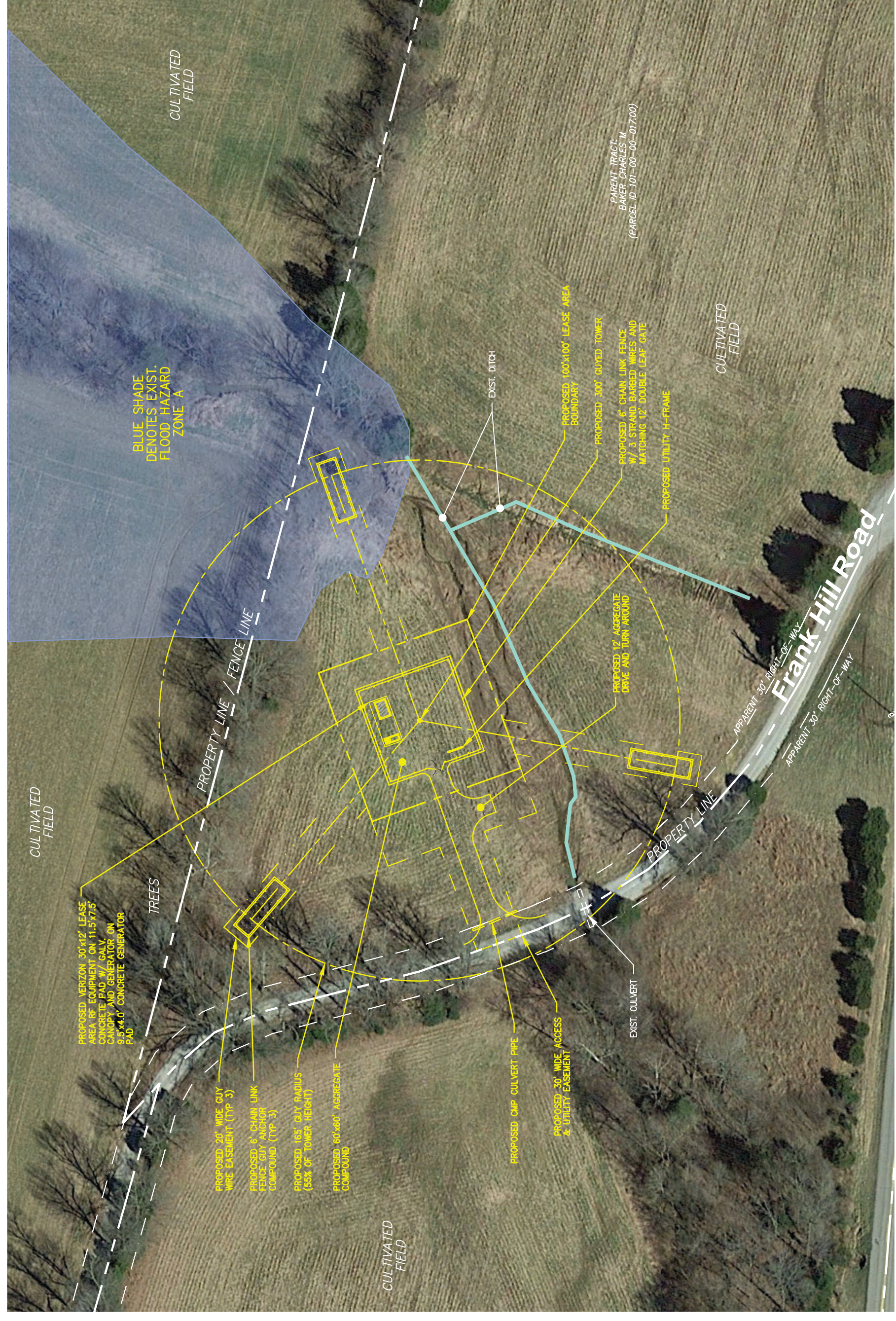
FRANK HILL ROAD  
MARION, KY 42064

SHEET TITLE:

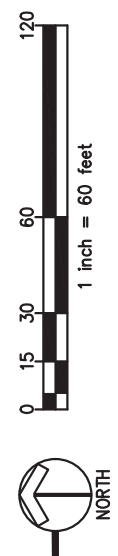
OVERALL SITE PLAN  
w/ AERIAL OVERLAY

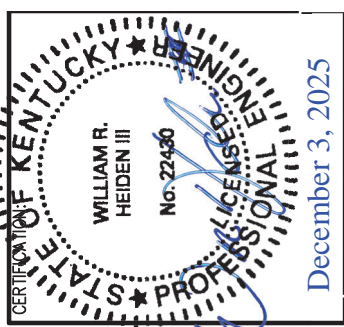
SHEET NO.:

**C-1**



**Overall Site Plan w/ Aerial Overlay**





December 3, 2025

RELEASE	REV	DATE	LEASE EXHIBIT
	06-03-2025		
	11-17-2025		ZONING DRAWINGS

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SITE NAME:

KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE

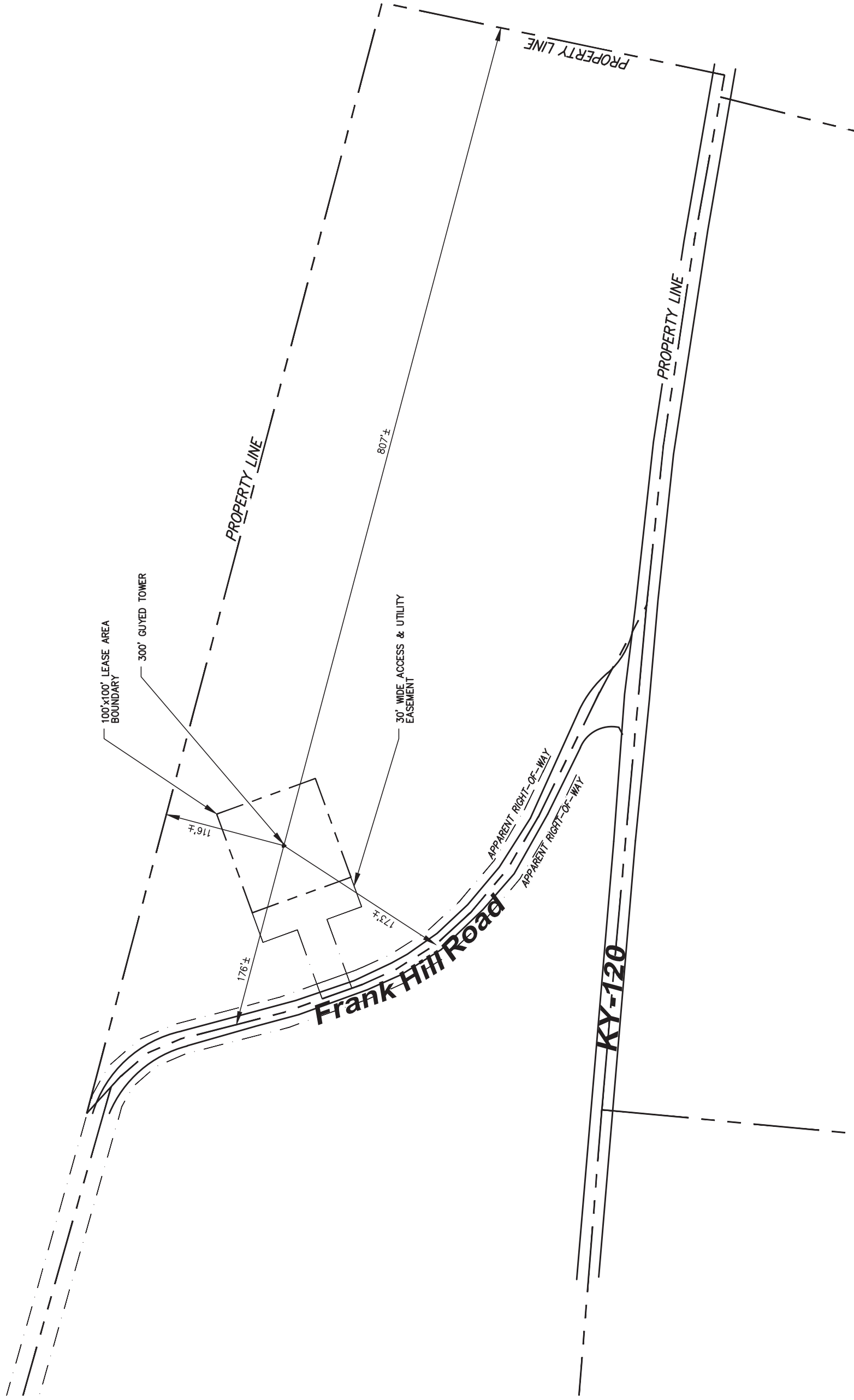
SITE ADDRESS:  
FRANK HILL ROAD  
MARION, KY 42064

SHEET TITLE:

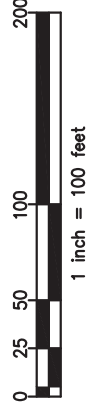
OVERALL SITE PLAN  
w/ TOWER DISTANCES  
TO PROPERTY LINES

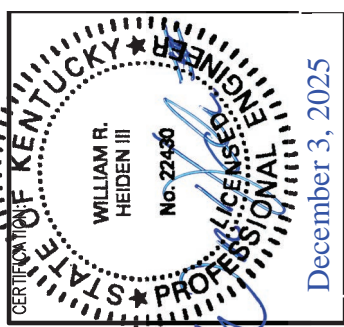
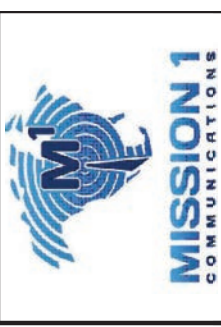
SHEET NO.:

C-1A



# Overall Site Plan w/ Tower Distances To Property Lines





RELEASE	REV	DATE	DESCRIPTION
	06-03-2025	LEASE EXHIBIT	
	11-17-2025	ZONING DRAWINGS	

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SITE NAME:

**KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE**

SITE ADDRESS:

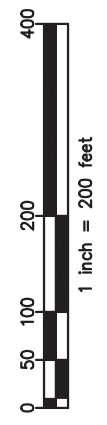
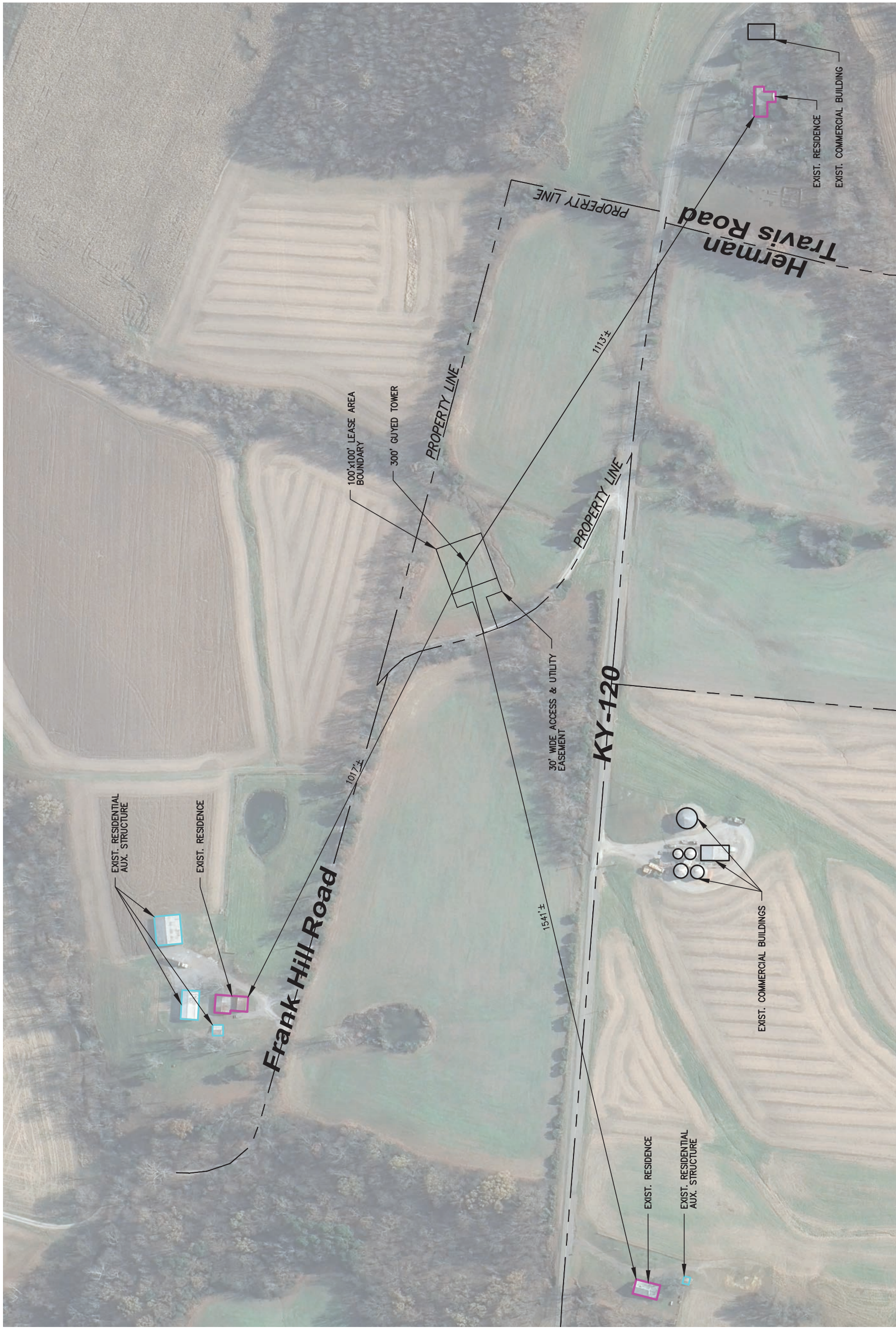
FRANK HILL ROAD  
MARION, KY 42064

SHEET TITLE:

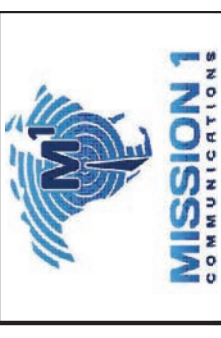
OVERALL SITE PLAN  
W/ TOWER DISTANCES  
TO RESIDENTIAL  
STRUCTURES

SHEET NO.:

**C-1B**



**Overall Site Plan w/ Tower Distances To Residential Structures**



RELEASE	REV	DATE	DESCRIPTION
	06-03-2025		LEASE EXHIBIT
	11-17-2025		ZONING DRAWINGS

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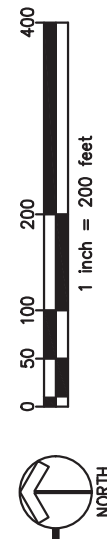
SITE NAME: KY-1822 EV GUM CREEK ROAD CELL SITE

**KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE**

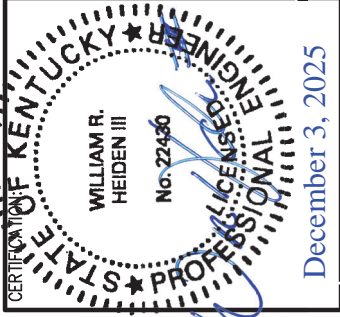
SITE ADDRESS:  
FRANK HILL ROAD  
MARION, KY 42064

SHEET TITLE:  
TOWER AND ACCESS  
EASEMENT BUFFER MAP

SHEET NO.: **C-1C**



**Tower And Access Easement Buffer Map**



RELEASE	REV	DATE	LEASE EXHIBIT
	06-03-2025		
	11-17-2025		ZONING DRAWINGS

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SITE NAME:

**KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE**

SITE ADDRESS:

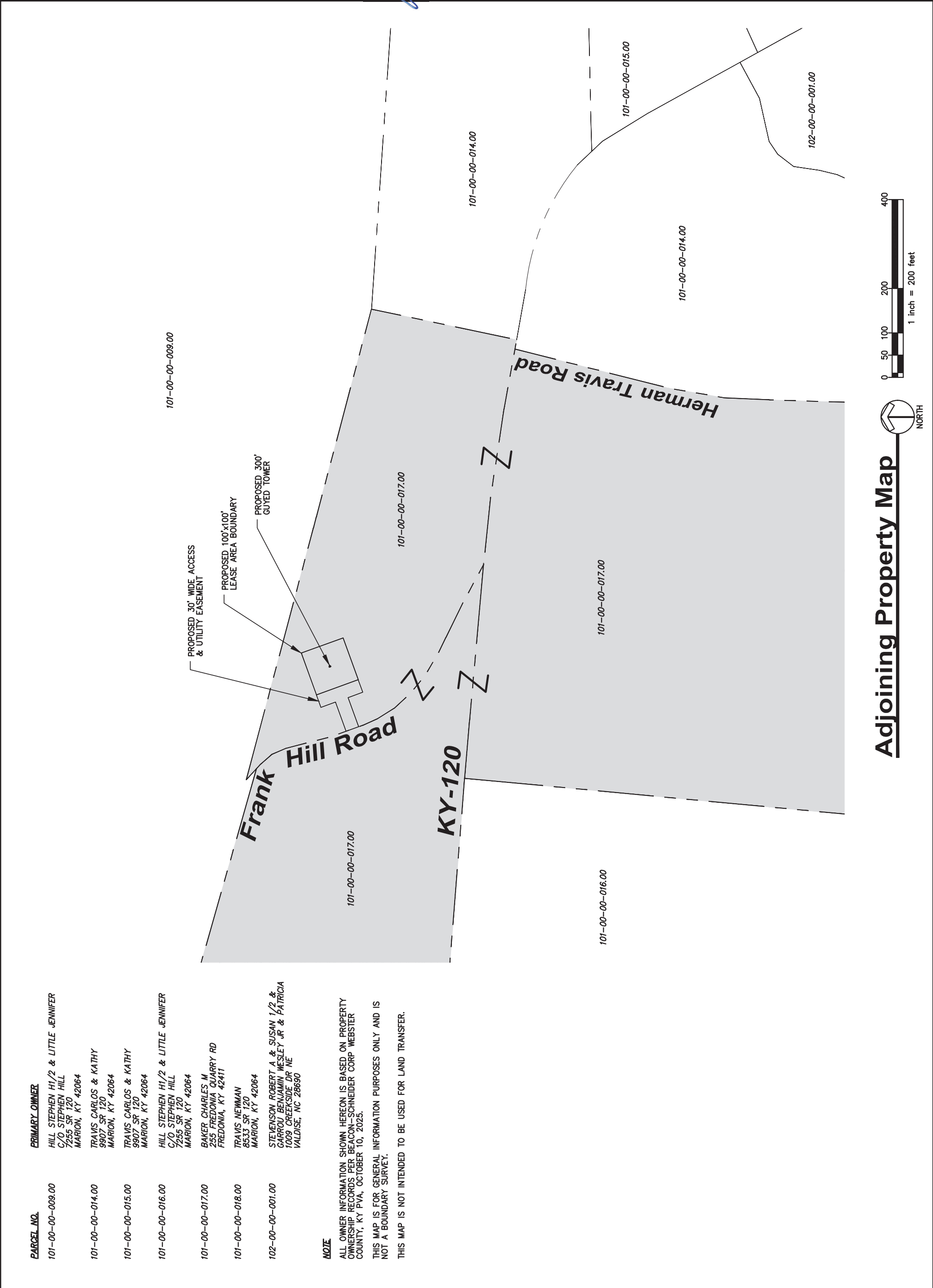
FRANK HILL ROAD  
MARION, KY 42064

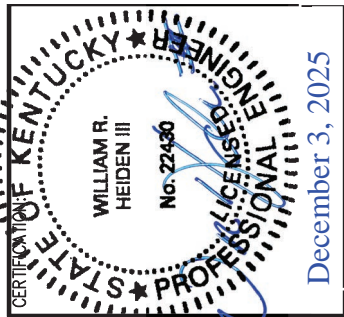
SHEET TITLE:

ADJOINING PROPERTY  
MAP

SHEET NO.:

**C-1D**





RELEASE	REV	DATE	LEASE EXHIBIT
	06-03-2025		
	11-17-2025		ZONING DRAWINGS

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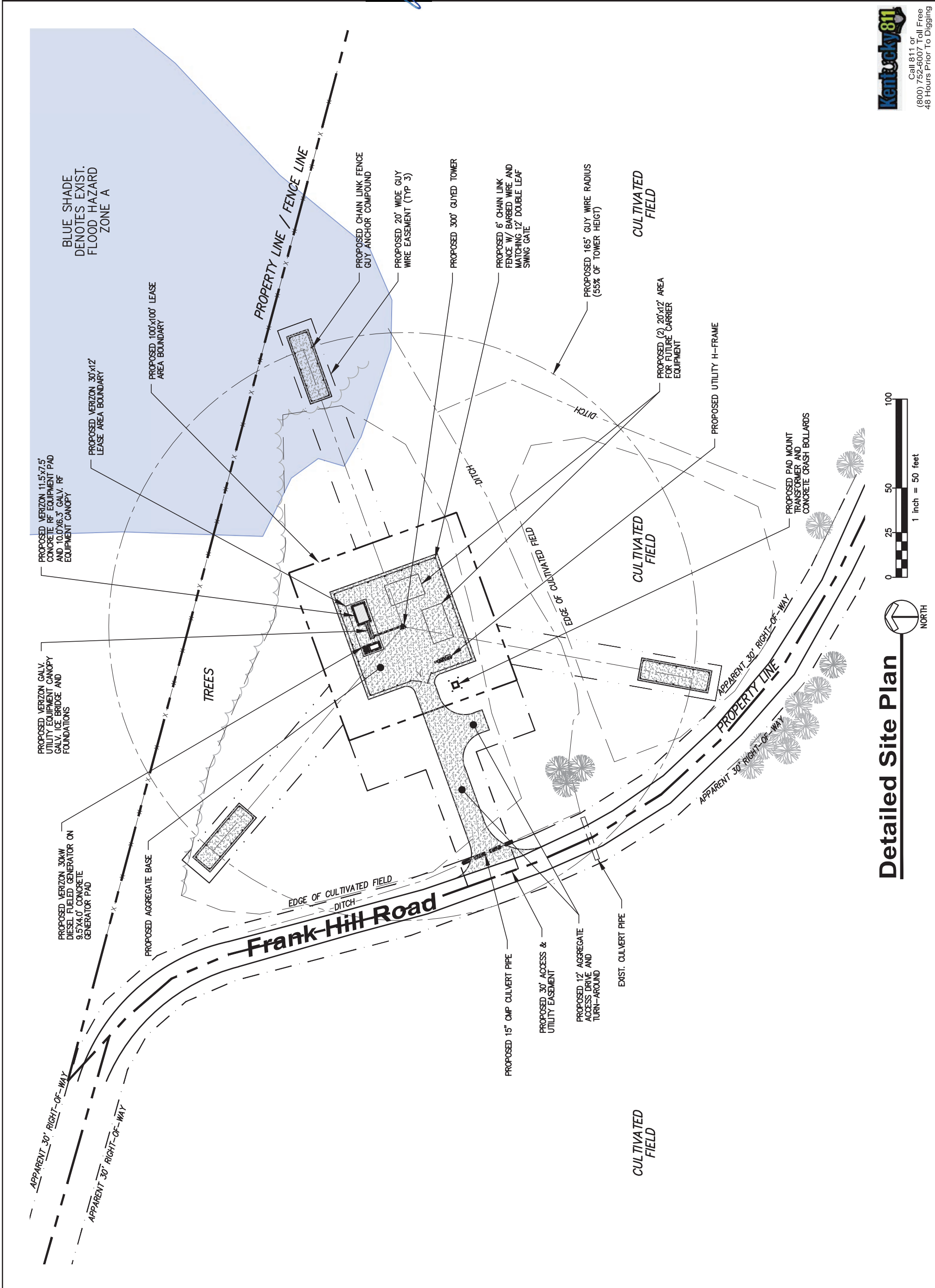
SITE NAME:

**KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE**

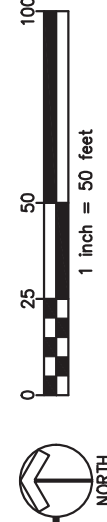
SITE ADDRESS:  
**FRANK HILL ROAD  
MARION, KY 42064**

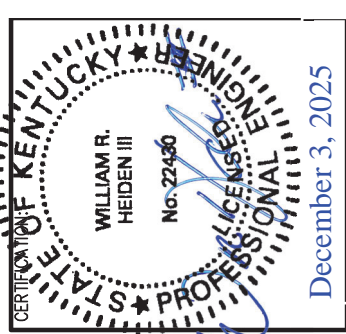
SHEET TITLE:  
**DETAILED SITE PLAN**

SHEET NO.:  
**C-2**



**Detailed Site Plan**





RELEASE	REV	DATE	LEASE EXHIBIT	ZONING DRAWINGS
	06-03-2025			
	11-17-2025			

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SITE NAME:

KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE

SITE ADDRESS:

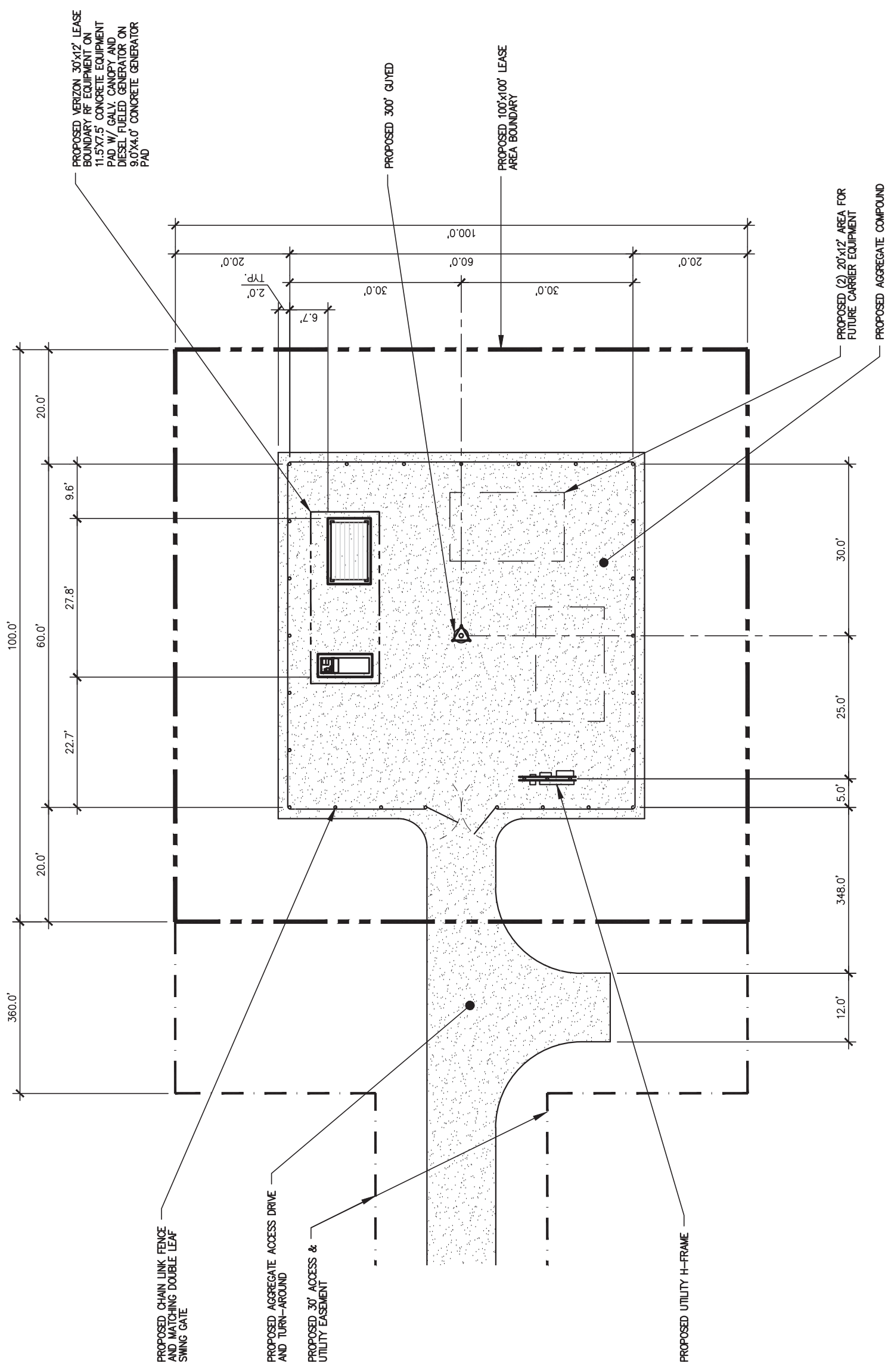
FRANK HILL ROAD  
MARION, KY 42064

SHEET TITLE:

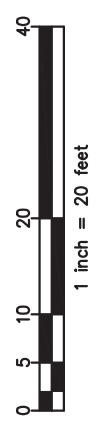
DIMENSIONED SITE PLAN

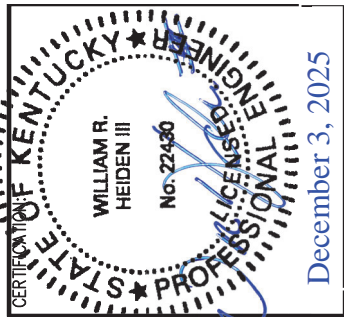
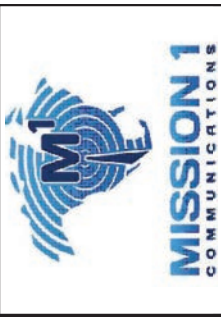
SHEET NO.:

C-3



Dimensioned Site Plan





RELEASE	REV	DATE	LEASE EXHIBIT
	06-03-2025		
	11-17-2025		ZONING DRAWINGS

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SITE NAME:

**KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE**

SITE ADDRESS:

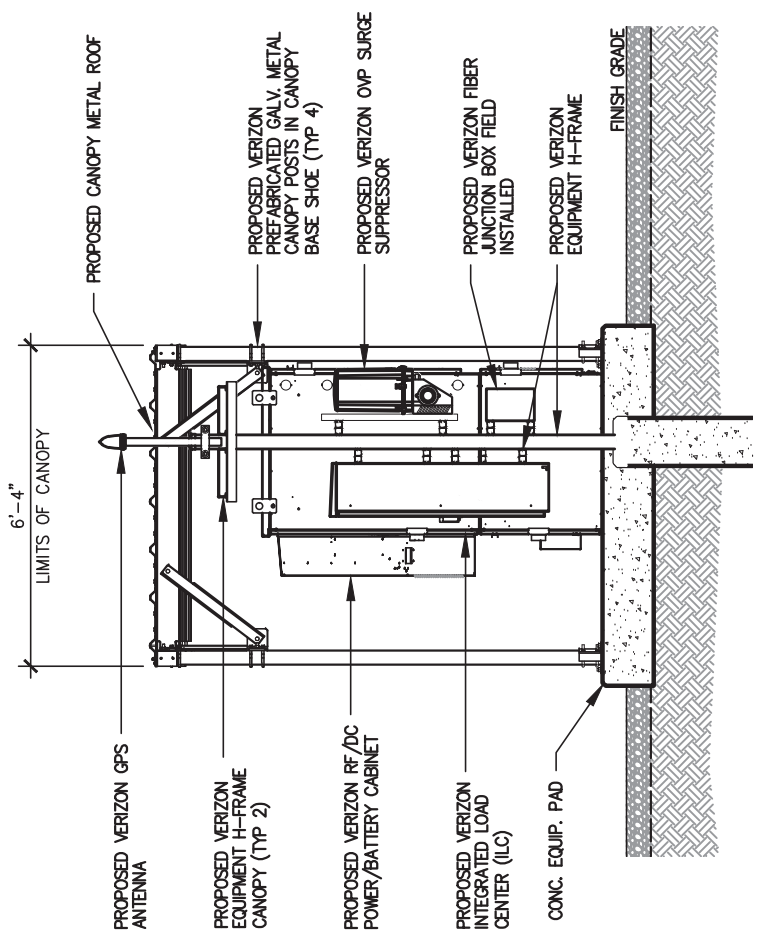
FRANK HILL ROAD  
MARION, KY 42064

SHEET TITLE:

VERIZON EQUIPMENT  
PAD AND CANOPY  
ELEVATIONS

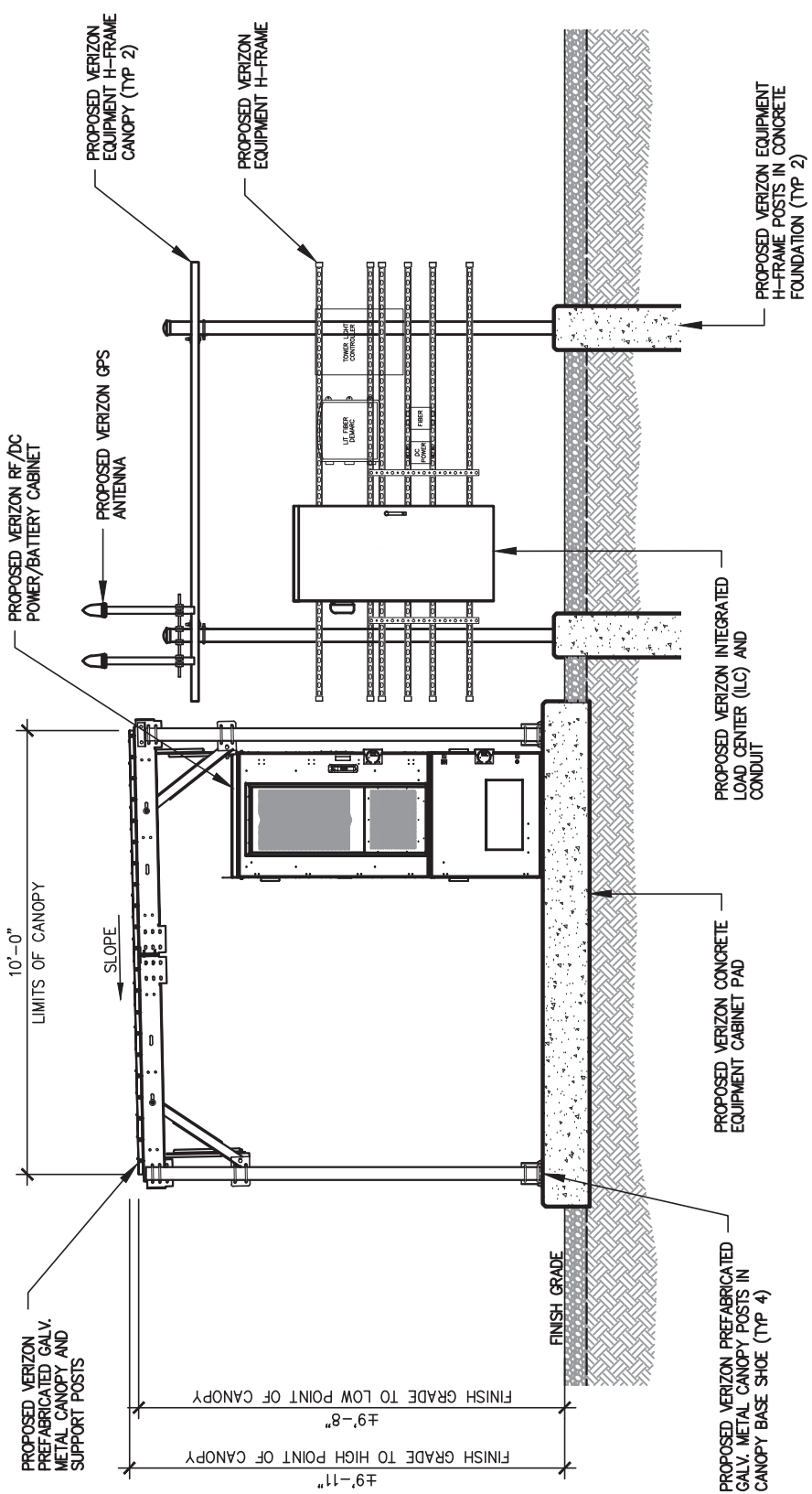
SHEET NO.:

**D-1**



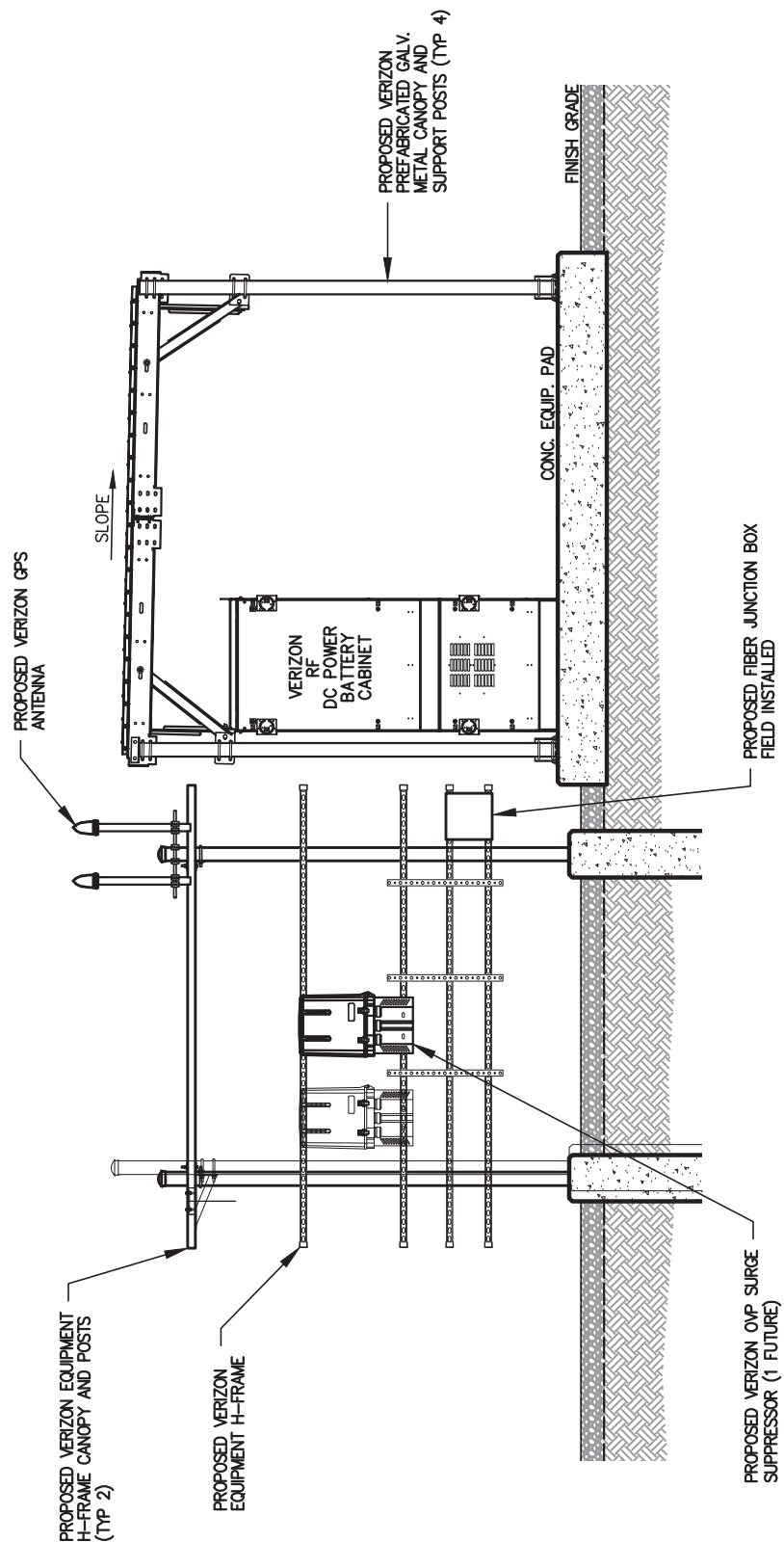
**2 Equipment Right Elevation**

SCALE: 1/4" = 1'-0"



**1 Equipment Front Elevation**

SCALE: 1/4" = 1'-0"



**3 Equipment Rear Elevation**

SCALE: 1/4" = 1'-0"



RELEASE	REV	DATE	LEASE EXHIBIT	ZONING DRAWINGS
	06-03-2025			
	11-17-2025			

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SITE NAME:

**KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE**

SITE ADDRESS:  
**FRANK HILL ROAD  
MARION, KY 42064**

SHEET TITLE:

TOWER ELEVATION,  
NOTES AND DETAILS

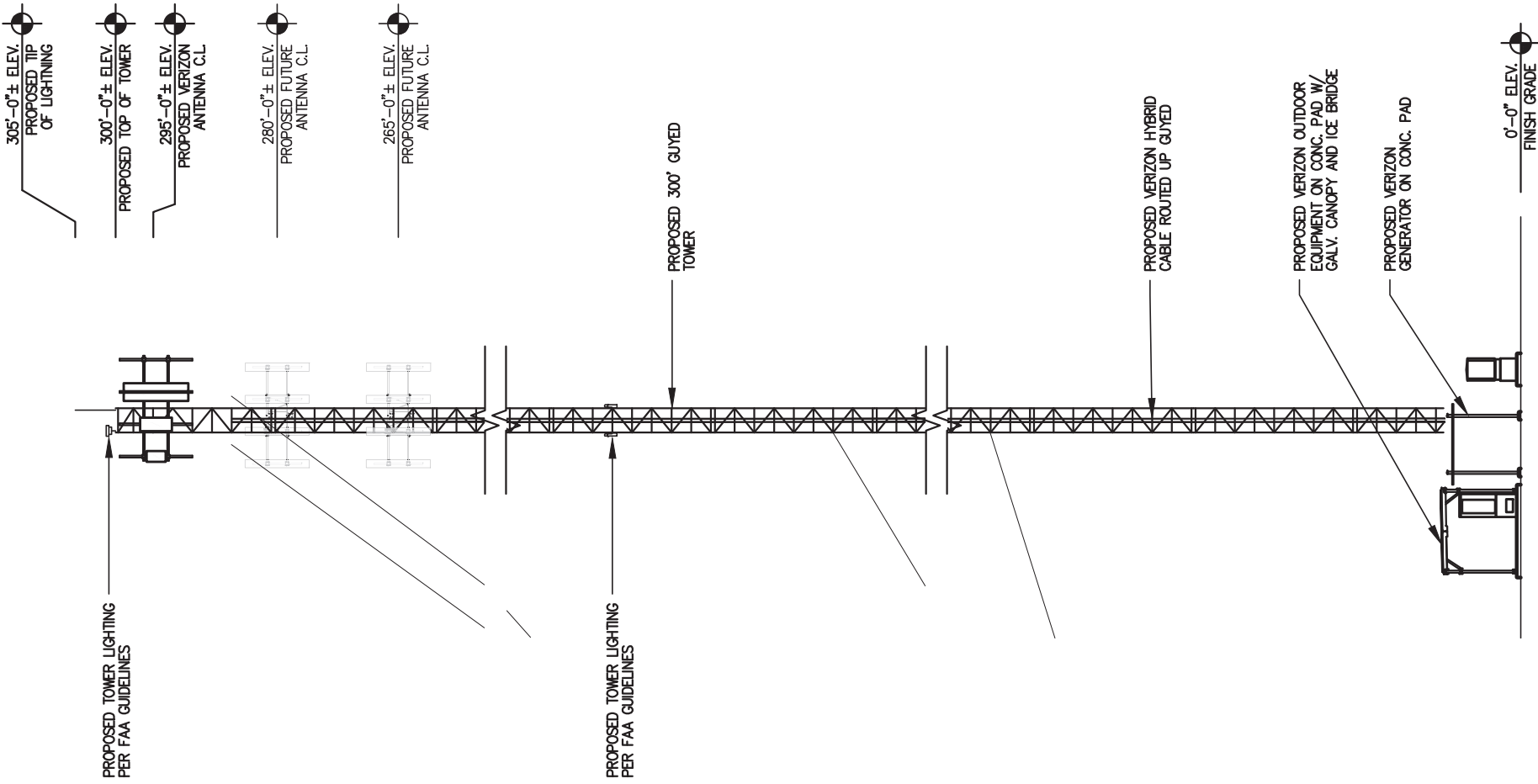
SHEET NO.:

**TE-1**

### General Notes

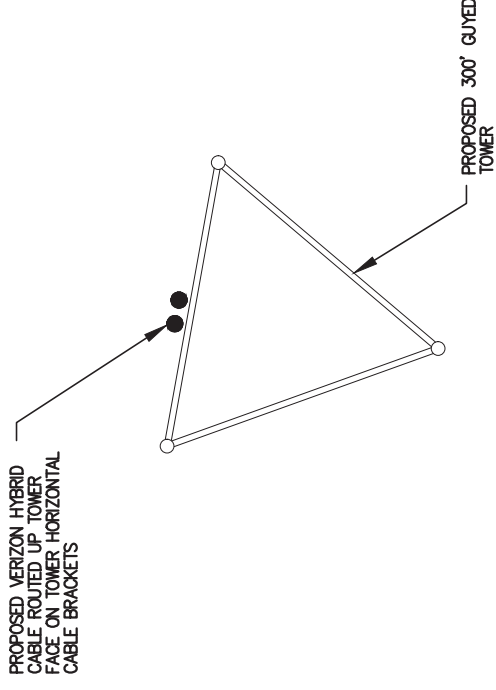
- VERIFY EACH COAXIAL CABLE LENGTH, ROUTING, AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDERING.
- COLOR CODE ALL MAIN CABLES, VERIFY COLOR CODES WITH VERIZON CONSTRUCTION MANAGER. CABLES TO BE TAGGED IN TWO (2) LOCATIONS:
  - AT OVP AT ANTENNA ELEVATION
  - AT OVP ON EQUIPMENT H-FRAME ADJACENT TO RF CABINETS
- EACH COAX CABLE SHALL BE SUPPORTED WITH COLUMN GRIP HUNG FROM A J-HOOK AT THE TOP OF THE TOWER.
- EACH COAX CABLE SHALL BE GROUNDED AT THREE (3) LOCATIONS:
  - TOWER PLATFORM OR T-FRAME
  - TOWER BASE
  - AT EQUIPMENT LOCATION PRIOR TO TERMINATING AT OVP MOUNTED ON EQUIPMENT H-FRAME
- COAX CABLE TO BE SUPPORTED EVERY 3' O.C. ON PLATFORM OR T-FRAME WITH STAINLESS STEEL HANGERS.
- COAX CABLES TO BE SUPPORTED ON THE TOWER EVERY 18" WITH STAINLESS STEEL HANGERS.
- VERIZON COAX CABLE TO BE ROUTED UP FACE OF GUYED TOWER.
- REFER TO STRUCTURAL ANALYSIS REPORT FOR ADDITIONAL INFORMATION PERFORMED BY:  
NOT AVAILABLE AT THIS TIME OF RELEASE
- REFER TO MOUNT ANALYSIS REPORT FOR ADDITIONAL INFORMATION PERFORMED BY:  
NOT AVAILABLE AT THIS TIME OF RELEASE

**TOWER STRUCTURE AND FOUNDATIONS  
DESIGNED BY OTHERS**



### Tower Elevation

SCALE: 1" = 20'-0"

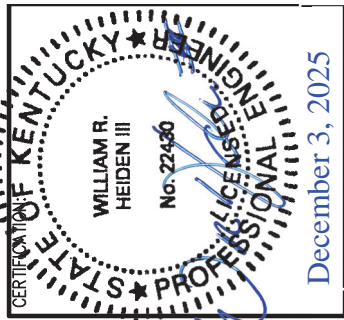


### Coax Base Plan

NO SCALE



NORTH



RELEASE	REV	DATE	LEASE EXHIBIT	ZONING DRAWINGS
	06-03-2025			
	11-17-2025			

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SITE NAME:

**KY-1822  
EV GUM CREEK  
ROAD  
CELL SITE**

SITE ADDRESS:  
**FRANK HILL ROAD  
MARION, KY 42064**

SHEET TITLE:

LIVINGSTON COUNTY  
EXISTING STRUCTURE  
MAP

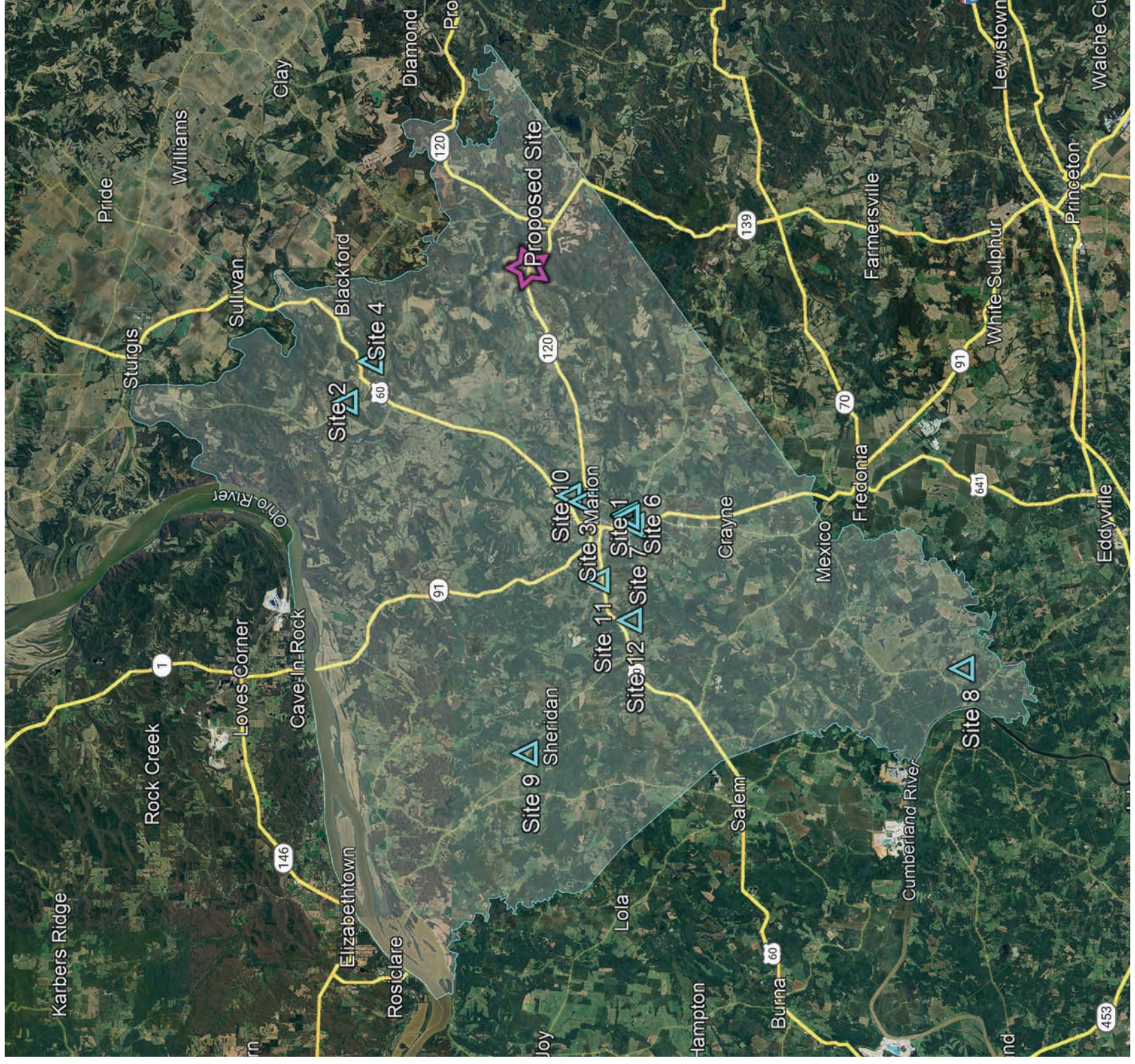
SHEET NO.:

**Z-1**

### FCC Registered Sites (Crittenden County)

Tower	ASR Registration	Latitude	Longitude	Tower Owner
1	1030656	N37° 19' 00.3"	W088° 04' 34.3"	CROWN CASTLE SOUTH, LLC
2	1031949	N37° 26' 51.0"	W088° 00' 33.0"	CELCO PARTNERSHIP
3	1042595	N37° 20' 16.0"	W088° 04' 03.0"	JOE MYERS PRODUCTIONS, INC
4	1043416	N37° 26' 08.9"	W087° 59' 07.1"	CROWN CASTLE SOUTH, LLC
5	1043420	N37° 19' 03.2"	W088° 04' 31.8"	CROWN CASTLE SOUTH, LLC
6	1204765	N37° 19' 03.0"	W088° 04' 29.0"	BIG RIVERS ELECTRIC CORPORATION
7	1280106	N37° 18' 52.0"	W088° 04' 51.7"	CRITTENDEN COUNTY
8	1288526	N37° 09' 40.8"	W088° 09' 52.5"	CELCO PARTNERSHIP
9	1303574	N37° 21' 50.2"	W088° 12' 51.8"	HARMONI TOWERS, LLC
10	1309252, 1313141	N37° 20' 37.8"	W088° 02' 50.0"	CTI TOWERS ASSETS II, LLC
11	1328058	N37° 19' 50.6"	W088° 06' 47.0"	AT&T MOBILITY SERVICES, LLC
12	1330849	N37° 18' 56.3"	W088° 08' 11.4"	AT&T MOBILITY LLC
<b>Proposed Tower</b>				
	PENDING	N37° 21' 46.8"	W088° 55' 49.9"	APC TOWERS IV, LLC

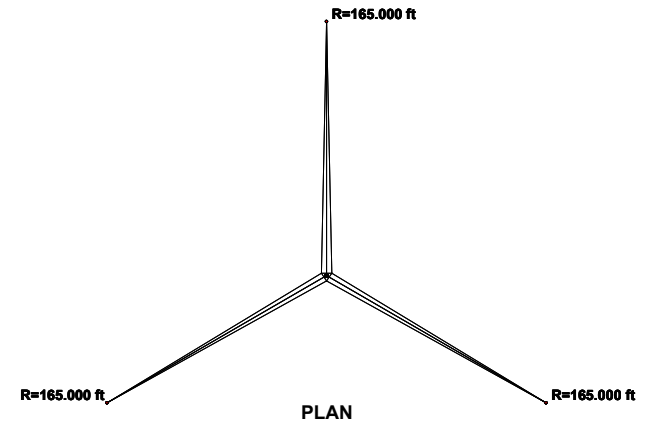
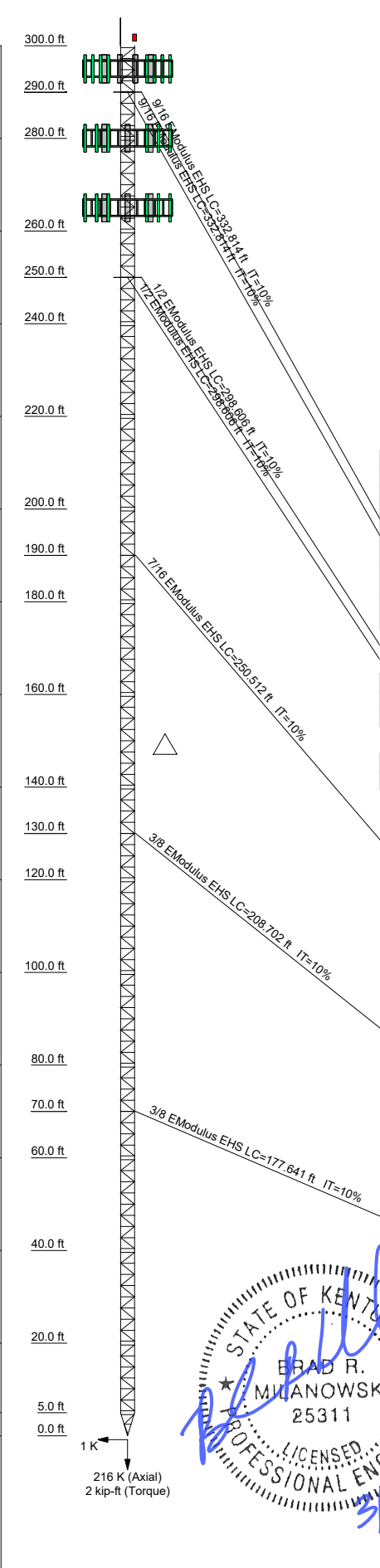
**NOTE**  
EXISTING TOWER STRUCTURES DEPICTED ARE ALL KNOWN TOWER STRUCTURES REGISTERED WITH THE FEDERAL COMMUNICATIONS COMMISSION (FCC) ANTENNA STRUCTURE REGISTRATION (ASR) IN CRITTENDEN COUNTY, KENTUCKY AS OF OCTOBER 25, 2025.



**Crittenden County Tower Map**

NORTH

Section	T16	T15	T14	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	A															
Leg Grade																
Diagonals																
Diagonal Grade																
Top Girts																
Bottom Girts																
Horizontals																
Top Guy Pull-Offs																
Face Width (ft)																
# Panels @ (ft)																
Weight (K)	12.8	0.3	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.9	1.3



**DESIGNED APPURTENANCE LOADING**

TYPE	ELEVATION	TYPE	ELEVATION
5' Lightning Rod	300	Sector2(CaAa=10000 Sq.in)No Ice (Carrier 2)	280
Top Beacon	300	Sector3(CaAa=10000 Sq.in)No Ice (Carrier 2)	280
Sector1(CaAa=14000 Sq.in)No Ice (Carrier 1)	295	Sector1(CaAa=10000 Sq.in)No Ice (Carrier 3)	265
Sector2(CaAa=14000 Sq.in)No Ice (Carrier 1)	295	Sector2(CaAa=10000 Sq.in)No Ice (Carrier 3)	265
Sector3(CaAa=14000 Sq.in)No Ice (Carrier 1)	295	Sector3(CaAa=10000 Sq.in)No Ice (Carrier 3)	265
Sector1(CaAa=10000 Sq.in)No Ice (Carrier 2)	280	Sector3(CaAa=10000 Sq.in)No Ice (Carrier 3)	265

**SYMBOL LIST**

MARK	SIZE	MARK	SIZE
A	SR 2 1/4	C	2 @ 2.11458
B	SR 1		

**MATERIAL STRENGTH**

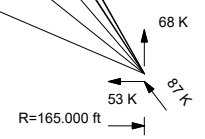
GRADE	Fy	Fu	GRADE	Fy	Fu
A529-50	50 ksi	65 ksi			

**TOWER DESIGN NOTES**

1. Tower is located in Crittenden County, Kentucky.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 106 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 30 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity.



ALL REACTIONS ARE FACTORED

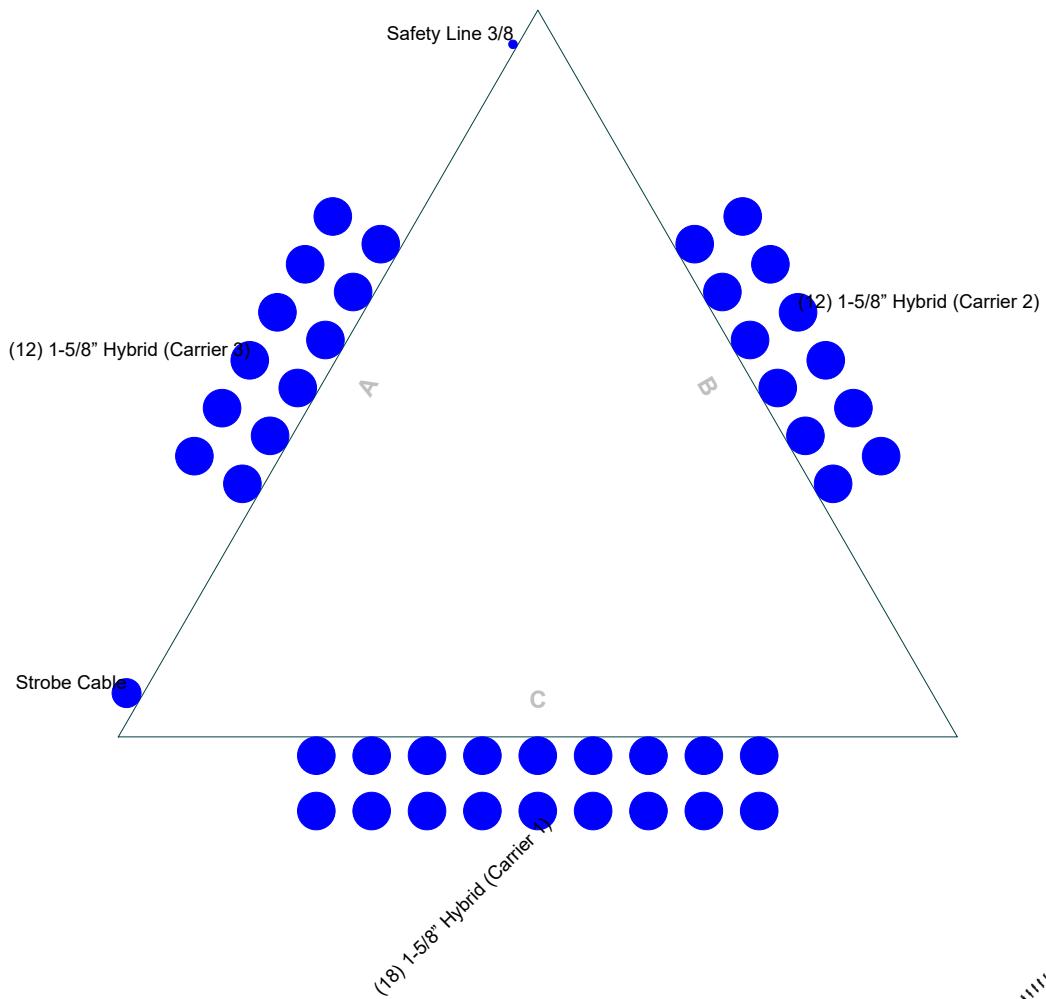


**B+T Engineering**  
 1717 S Boulder Ave, Suite 300  
 Tulsa, OK 74119  
 Phone: (918) 587-4630  
 FAX: (918) 295-0265

Job: <b>AT5#: C268 - EV Gum Creek Rd (Site# KY-1822)</b>	Project: <b>300' 36G/37.36302222, -87.93053056</b>	
Client: <b>APC Towers</b>	Drawn by: <b>aashwood</b>	App'd:
Code: <b>TIA-222-H</b>	Date: <b>03/06/26</b>	Scale: <b>NTS</b>
Path:		Dwg No. <b>E-1</b>

# Feed Line Plan

Round Flat App In Face App Out Face



**B+T Engineering**  
 1717 S Boulder Ave, Suite 300  
 Tulsa, OK 74119  
 Phone: (918) 587-4630  
 FAX: (918) 295-0265

Job: <b>ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)</b>		
Project: <b>300' 36G/37.36302222, -87.93053056</b>		
Client: APC Towers	Drawn by: aashwood	App'd:
Code: TIA-222-H	Date: 03/06/26	Scale: NTS
Path:	Dwg No. E-7	

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 1 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

## Tower Input Data

The main tower is a 3x guyed tower with an overall height of 300.000 ft above the ground line.

The base of the tower is set at an elevation of 0.000 ft above the ground line.

The face width of the tower is 3.000 ft at the top and tapered at the base.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

- Tower is located in Crittenden County, Kentucky.
- Tower base elevation above sea level: 377.000 ft.
- Basic wind speed of 106 mph.
- Risk Category II.
- Exposure Category C.
- Simplified Topographic Factor Procedure for wind speed-up calculations is used.
- Topographic Category: 1.
- Crest Height: 0.000 ft.
- Nominal ice thickness of 1.500 in.
- Ice thickness is considered to increase with height.
- Ice density of 56.000 pcf.
- A wind speed of 30 mph is used in combination with ice.
- Temperature drop of 50.000 °F.
- Deflections calculated using a wind speed of 60 mph.
- Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity..
- Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.
- Safety factor used in guy design is 1.
- Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

## Options

- |  |   |  |
|--|---|--|
| <ul style="list-style-type: none"> <li>Consider Moments - Legs</li> <li>Consider Moments - Horizontals</li> <li>Consider Moments - Diagonals</li> <li>Use Moment Magnification</li> <li>√ Use Code Stress Ratios</li> <li>√ Use Code Safety Factors - Guys</li> <li>Escalate Ice</li> <li>Always Use Max Kz</li> <li>Kz In Exposure D Hurricane Region</li> <li>√ Include Bolts In Member Capacity</li> <li>√ Leg Bolts Are At Top Of Section</li> <li>√ Secondary Horizontal Braces Leg</li> <li>Use Diamond Inner Bracing (4 Sided)</li> <li>SR Members Have Cut Ends</li> <li>SR Members Are Concentric</li> <li>Distribute Leg Loads As Uniform</li> <li>Use Special Wind Profile</li> </ul> | <ul style="list-style-type: none"> <li>Assume Legs Pinned</li> <li>√ Assume Rigid Index Plate</li> <li>√ Use Clear Spans For Wind Area</li> <li>√ Use Clear Spans For KL/r</li> <li>√ Retension Guys To Initial Tension</li> <li>√ Bypass Mast Stability Checks</li> <li>√ Use Azimuth Dish Coefficients</li> <li>√ Project Wind Area of Appurtenances</li> <li>Alternative Appurt. EPA Calculation</li> <li>√ Autocalc Torque Arm Areas</li> <li>Add IBC .6D+W Combination</li> <li>√ Sort Capacity Reports By Component</li> <li>Triangulate Diamond Inner Bracing</li> <li>Treat Feed Line Bundles As Cylinder</li> <li>Ignore KL/ry For 60 Deg. Angle Legs</li> <li>Use ASCE 10 X-Brace Ly Rules</li> </ul> | <ul style="list-style-type: none"> <li>√ Calculate Redundant Bracing Forces</li> <li>Ignore Redundant Members in FEA</li> <li>√ SR Leg Bolts Resist Compression</li> <li>All Leg Panels Have Same Allowable</li> <li>Offset Girt At Foundation</li> <li>√ Consider Feed Line Torque</li> <li>√ Include Angle Block Shear Check</li> <li>Use TIA-222-H Bracing Resist. Exemption</li> <li>Use TIA-222-H Tension Splice Exemption</li> </ul> <div style="background-color: #e0e0e0; text-align: center; padding: 2px;"><b>Poles</b></div> <ul style="list-style-type: none"> <li>Include Shear-Torsion Interaction</li> <li>Always Use Sub-Critical Flow</li> <li>Use Top Mounted Sockets</li> <li>Pole Without Linear Attachments</li> <li>Pole With Shroud Or No Appurtenances</li> <li>Outside and Inside Corner Radii Are Known</li> </ul> |
|--|---|--|

<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)
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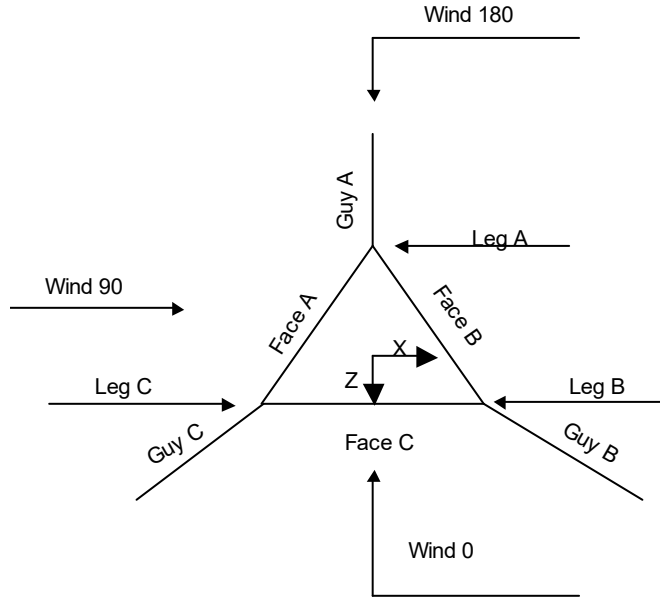
<b>Page</b> 2 of 54
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<b>Project</b> 300' 36G/37.36302222, -87.93053056
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<b>Date</b> 15:55:57 03/06/26
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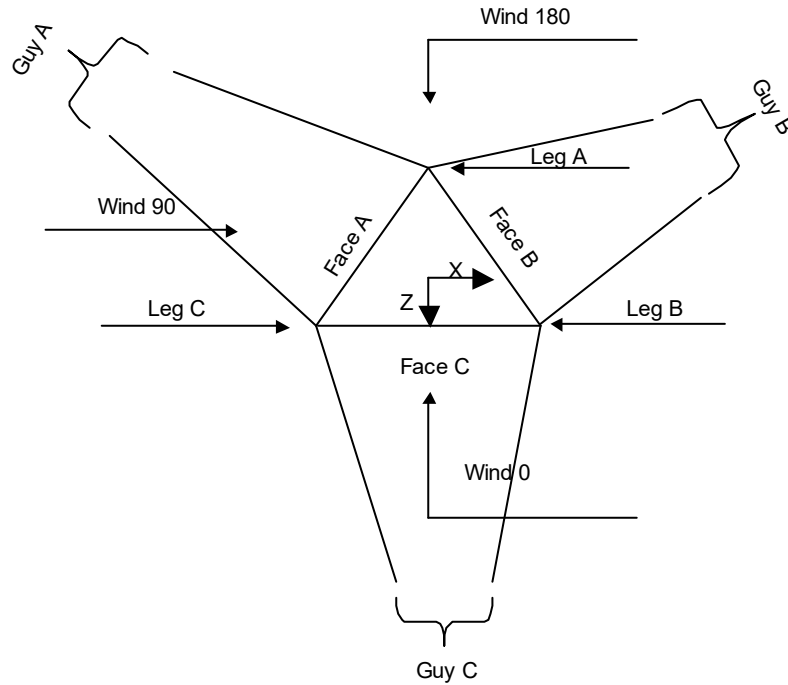
<b>Client</b> APC Towers
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<b>Designed by</b> aashwood
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**Corner & Starmount Guyed Tower**

<b>Job</b>	ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b>	3 of 54
<b>Project</b>	300' 36G/37.36302222, -87.93053056	<b>Date</b>	15:55:57 03/06/26
<b>Client</b>	APC Towers	<b>Designed by</b>	aashwood



**Face Guyed**

**Tower Section Geometry**

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	300.000-280.000			3.000	1	20.000
T2	280.000-260.000			3.000	1	20.000
T3	260.000-240.000			3.000	1	20.000
T4	240.000-220.000			3.000	1	20.000
T5	220.000-200.000			3.000	1	20.000
T6	200.000-180.000			3.000	1	20.000
T7	180.000-160.000			3.000	1	20.000
T8	160.000-140.000			3.000	1	20.000
T9	140.000-120.000			3.000	1	20.000
T10	120.000-100.000			3.000	1	20.000
T11	100.000-80.000			3.000	1	20.000
T12	80.000-60.000			3.000	1	20.000
T13	60.000-40.000			3.000	1	20.000
T14	40.000-20.000			3.000	1	20.000
T15	20.000-5.000			3.000	1	15.000
T16	5.000-0.000			3.000	1	5.000

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	<p><b>Project</b></p> <p>300' 36G/37.36302222, -87.93053056</p>	<p><b>Date</b></p> <p>15:55:57 03/06/26</p>
	<p><b>Client</b></p> <p>APC Towers</p>	<p><b>Designed by</b></p> <p>aashwood</p>

### Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	300.000-280.000	2.404	K Brace Right	No	Yes	4.625	4.625
T2	280.000-260.000	2.404	K Brace Right	No	Yes	4.625	4.625
T3	260.000-240.000	2.404	K Brace Right	No	Yes	4.625	4.625
T4	240.000-220.000	2.404	K Brace Right	No	Yes	4.625	4.625
T5	220.000-200.000	2.404	K Brace Right	No	Yes	4.625	4.625
T6	200.000-180.000	2.404	K Brace Right	No	Yes	4.625	4.625
T7	180.000-160.000	2.404	K Brace Right	No	Yes	4.625	4.625
T8	160.000-140.000	2.404	K Brace Right	No	Yes	4.625	4.625
T9	140.000-120.000	2.404	K Brace Right	No	Yes	4.625	4.625
T10	120.000-100.000	2.404	K Brace Right	No	Yes	4.625	4.625
T11	100.000-80.000	2.404	K Brace Right	No	Yes	4.625	4.625
T12	80.000-60.000	2.404	K Brace Right	No	Yes	4.625	4.625
T13	60.000-40.000	2.404	K Brace Right	No	Yes	4.625	4.625
T14	40.000-20.000	2.404	K Brace Right	No	Yes	4.625	4.625
T15	20.000-5.000	2.372	K Brace Right	No	Yes	4.625	4.625
T16	5.000-0.000	2.115	K Brace Right	No	Yes	4.625	4.625

### Tower Section Geometry (cont'd)

Tower Elevation	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
ft						
T1	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	1	A529-50 (50 ksi)
300.000-280.000						
T2	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	1	A529-50 (50 ksi)
280.000-260.000						
T3	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	1	A529-50 (50 ksi)
260.000-240.000						
T4	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
240.000-220.000						
T5	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
220.000-200.000						
T6	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
200.000-180.000						
T7	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
180.000-160.000						
T8	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
160.000-140.000						
T9	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
140.000-120.000						
T10	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
120.000-100.000						
T11	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
100.000-80.000						
T12	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
80.000-60.000						
T13	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
60.000-40.000						
T14	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
40.000-20.000						

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	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
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Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T15 20.000-5.000	Solid Round	1 3/4	A529-50 (50 ksi)	Solid Round	.75	A529-50 (50 ksi)
T16 5.000-0.000	Solid Round	2 1/4	A529-50 (50 ksi)	Solid Round	1	A529-50 (50 ksi)

### Tower Section Geometry (cont'd)

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 300.000-280.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T2 280.000-260.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T3 260.000-240.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T4 240.000-220.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T5 220.000-200.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T6 200.000-180.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T7 180.000-160.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T8 160.000-140.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T9 140.000-120.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T10 120.000-100.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T11 100.000-80.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T12 80.000-60.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T13 60.000-40.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T14 40.000-20.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T15 20.000-5.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T16 5.000-0.000	Solid Round	3/4	A529-50 (50 ksi)	Solid Round	3/4	A529-50 (50 ksi)

### Tower Section Geometry (cont'd)

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T1 300.000-280.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)

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	<p><b>Project</b></p> <p style="text-align: center;">300' 36G/37.36302222, -87.93053056</p>	<p><b>Date</b></p> <p style="text-align: center;">15:55:57 03/06/26</p>
	<p><b>Client</b></p> <p style="text-align: center;">APC Towers</p>	<p><b>Designed by</b></p> <p style="text-align: center;">aashwood</p>

Tower Elevation <i>ft</i>	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T2 280.000-260.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T3 260.000-240.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T4 240.000-220.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T5 220.000-200.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T6 200.000-180.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T7 180.000-160.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T8 160.000-140.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T9 140.000-120.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T10 120.000-100.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T11 100.000-80.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T12 80.000-60.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T13 60.000-40.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T14 40.000-20.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T15 20.000-5.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)
T16 5.000-0.000	None	Flat Bar		A36 (36 ksi)	Solid Round	3/4	A529-50 (50 ksi)

### Tower Section Geometry (cont'd)

Tower Elevation <i>ft</i>	Gusset Area (per face) <i>ft<sup>2</sup></i>	Gusset Thickness <i>in</i>	Gusset Grade	Adjust. Factor <i>A<sub>f</sub></i>	Adjust. Factor <i>A<sub>r</sub></i>	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals <i>in</i>	Double Angle Stitch Bolt Spacing Horizontals <i>in</i>	Double Angle Stitch Bolt Spacing Redundants <i>in</i>
T1 300.000-280.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T2 280.000-260.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T3 260.000-240.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T4 240.000-220.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T5 220.000-200.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000
T6 200.000-180.000	0.000	0.000	A36 (36 ksi)	1	1	1	36.000	36.000	36.000





Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T7 180.000-160.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T8 160.000-140.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T9 140.000-120.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T10 120.000-100.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T11 100.000-80.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T12 80.000-60.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T13 60.000-40.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T14 40.000-20.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T15 20.000-5.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75
T16 5.000-0.000	0.000	1	0.000	1	0.000	1	0.000	1	0.000	0.75	0.000	1	0.000	0.75

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 300.000-280.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T2 280.000-260.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
T3 260.000-240.000	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T4 240.000-220.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T5 220.000-200.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T6 200.000-180.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T7 180.000-160.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T8 160.000-140.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
T9 140.000-120.000	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)

# tnxTower

**B+T Engineering**  
 1717 S Boulder Ave, Suite 300  
 Tulsa, OK 74119  
 Phone: (918) 587-4630  
 FAX: (918) 295-0265

**Job**  
 ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)

**Page**  
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**Project**  
 300' 36G/37.36302222, -87.93053056

**Date**  
 15:55:57 03/06/26

**Client**  
 APC Towers

**Designed by**  
 aashwood

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T10 120.000-100.000	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T11 100.000-80.000	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T12 80.000-60.000	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T13 60.000-40.000	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T14 40.000-20.000	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T15 20.000-5.000	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)
T16 5.000-0.000	0.000	0.75 (4)	0.000	0.75 (4)							0.000	0.75 (4)	0.000	0.75 (4)
	0.000	0.75 (1)	0.000	0.75 (1)	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75 (1)	0.000	0.75 (1)
	0.000	0.75 (2)	0.000	0.75 (2)							0.000	0.75 (2)	0.000	0.75 (2)
	0.000	0.75 (3)	0.000	0.75 (3)							0.000	0.75 (3)	0.000	0.75 (3)

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 12 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

0.000	0.75 (2)	0.000	0.75 (2)			0.000	0.75 (2)	0.000	0.75 (2)
0.000	0.75 (3)	0.000	0.75 (3)			0.000	0.75 (3)	0.000	0.75 (3)
0.000	0.75 (4)	0.000	0.75 (4)			0.000	0.75 (4)	0.000	0.75 (4)

**Tower Section Geometry (cont'd)**

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
300.000-280.000	T1 Flange	0.750 A325N	0	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
280.000-260.000	T2 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
260.000-240.000	T3 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
240.000-220.000	T4 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
220.000-200.000	T5 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
200.000-180.000	T6 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
180.000-160.000	T7 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
160.000-140.000	T8 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
140.000-120.000	T9 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
120.000-100.000	T10 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
100.000-80.000	T11 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
80.000-60.000	T12 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0
60.000-40.000	T13 Flange	0.750 A325N	3	0.000 A325N	0	0.000 A325N	0	0.000 A325N	0	0.625 A325N	0	0.000 A325N	0	0.625 A325N	0

# tnxTower

**B+T Engineering**  
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 Tulsa, OK 74119  
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<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 13 of 54
<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
40.000-20.000	Flange	0.750	3	0.000	0	0.000	0	0.000	0	0.625	0	0.000	0	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
20.000-5.000	Flange	0.750	3	0.000	0	0.000	0	0.000	0	0.625	0	0.000	0	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	
5.000-0.000	Flange	0.750	3	0.000	0	0.000	0	0.000	0	0.625	0	0.000	0	0.625	0
		A325N		A325N		A325N		A325N		A325N		A325N		A325N	

## Guy Data

Guy Elevation ft	Guy Grade	Guy Size	Initial Tension K	%	Guy Modulus ksi	Guy Weight plf	L <sub>u</sub> ft	Anchor Radius ft	Anchor Azimuth Adj. °	Anchor Elevation ft	End Fitting Efficiency %
70	EHS	A 3/8	1.540	10%	21000.000	0.273	177.482	165.000	0.000	0.000	100%
		B EModulus	1.540	10%	21000.000	0.273	177.482	165.000	0.000	0.000	100%
		C 3/8	1.540	10%	21000.000	0.273	177.482	165.000	0.000	0.000	100%
		EModulus 3/8									
130	EHS	A 3/8	1.540	10%	21000.000	0.273	208.514	165.000	0.000	0.000	100%
		B EModulus	1.540	10%	21000.000	0.273	208.514	165.000	0.000	0.000	100%
		C 3/8	1.540	10%	21000.000	0.273	208.514	165.000	0.000	0.000	100%
		EModulus 3/8									
190	EHS	A 7/16	2.080	10%	21000.000	0.399	250.304	165.000	0.000	0.000	100%
		B EModulus	2.080	10%	21000.000	0.399	250.304	165.000	0.000	0.000	100%
		C 7/16	2.080	10%	21000.000	0.399	250.304	165.000	0.000	0.000	100%
		EModulus 7/16									
250	EHS	A 1/2	2.690	10%	21000.000	0.517	298.356	165.000	0.000	0.000	100%
		B EModulus	2.690	10%	21000.000	0.517	298.356	165.000	0.000	0.000	100%
		C 1/2	2.690	10%	21000.000	0.517	298.356	165.000	0.000	0.000	100%
		EModulus 1/2									
290	EHS	A 9/16	3.500	10%	21000.000	0.671	332.534	165.000	0.000	0.000	100%
		B EModulus	3.500	10%	21000.000	0.671	332.534	165.000	0.000	0.000	100%
		C 9/16	3.500	10%	21000.000	0.671	332.534	165.000	0.000	0.000	100%
		EModulus 9/16									

## Guy Data(cont'd)

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
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<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 14 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Guy Elevation ft	Mount Type	Torque-Arm Spread ft	Torque-Arm Leg Angle °	Torque-Arm Style	Torque-Arm Grade	Torque-Arm Type	Torque-Arm Size
70	Corner						
130	Corner						
190	Corner						
250	Torque Arm	6.000	0.000	Channel	A529-50 (50 ksi)	Channel	C12x20.7
290	Torque Arm	6.000	0.000	Channel	A529-50 (50 ksi)	Channel	C12x20.7

### Guy Data (cont'd)

Guy Elevation ft	Diagonal Grade	Diagonal Type	Upper Diagonal Size	Lower Diagonal Size	Is Strap	Pull-Off Grade	Pull-Off Type	Pull-Off Size
70.000	A572-50 (50 ksi)	Solid Round			Yes	A529-50 (50 ksi)	Flat Bar	4x5/8
130.000	A572-50 (50 ksi)	Solid Round			Yes	A529-50 (50 ksi)	Flat Bar	4x5/8
190.000	A572-50 (50 ksi)	Solid Round			Yes	A529-50 (50 ksi)	Flat Bar	4x5/8
250.000	A572-50 (50 ksi)	Solid Round			Yes	A529-50 (50 ksi)	Flat Bar	4x5/8
290.000	A572-50 (50 ksi)	Solid Round			Yes	A529-50 (50 ksi)	Flat Bar	4x5/8

### Guy Data (cont'd)

Guy Elevation ft	Cable Weight A K	Cable Weight B K	Cable Weight C K	Cable Weight D K	Tower Intercept A ft	Tower Intercept B ft	Tower Intercept C ft	Tower Intercept D ft
70	0.048	0.048	0.048		2.778	2.778	2.778	
					2.9 sec/pulse	2.9 sec/pulse	2.9 sec/pulse	
130	0.057	0.057	0.057		3.814	3.814	3.814	
					3.4 sec/pulse	3.4 sec/pulse	3.4 sec/pulse	
190	0.100	0.100	0.100		5.907	5.907	5.907	
					4.2 sec/pulse	4.2 sec/pulse	4.2 sec/pulse	
250	0.154	0.154	0.154		8.362	8.362	8.362	
					5.0 sec/pulse	5.0 sec/pulse	5.0 sec/pulse	
290	0.223	0.223	0.223		10.323	10.323	10.323	
					5.5 sec/pulse	5.5 sec/pulse	5.5 sec/pulse	

### Guy Data (cont'd)

Torque Arm	Pull Off	Diagonal
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<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 15 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Guy Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K <sub>x</sub>	K <sub>y</sub>	K <sub>x</sub>	K <sub>y</sub>	K <sub>x</sub>	K <sub>y</sub>
70	No	No			0.8	0.8	1	1
130	No	No			0.8	0.8	1	1
190	No	No			0.8	0.8	1	1
250	No	No	1	1	0.8	0.8	1	1
290	No	No	1	1	0.8	0.8	1	1

### Guy Data (cont'd)

Guy Elevation ft	Torque-Arm				Pull Off				Diagonal			
	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U	Bolt Size in	Number	Net Width Deduct in	U
70	0.625 A325N	0	0.000	0.75	0.625 A325N	0	0.000	1	0.625 A325N	0	0.000	1
130	0.000 A325N	0	0.000	0.75	0.625 A325N	0	0.000	1	0.625 A325N	0	0.000	1
190	0.000 A325N	0	0.000	0.75	0.625 A325N	0	0.000	1	0.625 A325N	0	0.000	1
250	0.000 A325N	0	0.000	0.75	0.625 A325N	0	0.000	1	0.625 A325N	0	0.000	1
290	0.000 A325N	0	0.000	0.75	0.625 A325N	0	0.000	1	0.625 A325N	0	0.000	1

### Guy Pressures

Guy Elevation ft	Guy Location	z ft	q <sub>z</sub> ksf	q <sub>z</sub> Ice ksf	Ice Thickness in
70	A	35.000	0.024	0.002	1.509
	B	35.000	0.024	0.002	1.509
	C	35.000	0.024	0.002	1.509
130	A	65.000	0.028	0.002	1.605
	B	65.000	0.028	0.002	1.605
	C	65.000	0.028	0.002	1.605
190	A	95.000	0.030	0.002	1.667
	B	95.000	0.030	0.002	1.667
	C	95.000	0.030	0.002	1.667
250	A	125.000	0.032	0.003	1.714
	B	125.000	0.032	0.003	1.714
	C	125.000	0.032	0.003	1.714
290	A	145.000	0.033	0.003	1.739
	B	145.000	0.033	0.003	1.739
	C	145.000	0.033	0.003	1.739

**Feed Line/Linear Appurtenances - Entered As Round Or Flat**

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 16 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
1-5/8" Hybrid (Carrier 1) **	C	No	No	Ar (CaAa)	295.000 - 10.000	0.000	0	18	9	0.750	1.625		0.001
1-5/8" Hybrid (Carrier 2) **	B	No	No	Ar (CaAa)	280.000 - 10.000	0.000	0	12	6	0.750	1.625		0.001
1-5/8" Hybrid (Carrier 3) **	A	No	No	Ar (CaAa)	265.000 - 10.000	0.000	0	12	6	0.750	1.625		0.001
Safety Line 3/8	A	No	No	Ar (CaAa)	300.000 - 10.000	0.000	0.45	1	1	0.375	0.375		0.000
Strobe Cable	A	No	No	Ar (CaAa)	300.000 - 10.000	0.000	-0.45	1	1	1.250	1.250		0.001
**													

### Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C <sub>A</sub> A <sub>A</sub> ft <sup>2</sup> /ft	Weight klf
**								

### Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> In Face ft <sup>2</sup>	C <sub>A</sub> A <sub>A</sub> Out Face ft <sup>2</sup>	Weight K
T1	300.000-280.000	A	0.000	0.000	3.250	0.000	0.018
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	43.875	0.000	0.281
T2	280.000-260.000	A	0.000	0.000	13.000	0.000	0.081
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T3	260.000-240.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T4	240.000-220.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T5	220.000-200.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T6	200.000-180.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T7	180.000-160.000	A	0.000	0.000	42.250	0.000	0.268
		B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
T8	160.000-140.000	A	0.000	0.000	42.250	0.000	0.268

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 17 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Tower Section	Tower Elevation ft	Face	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
T9	140.000-120.000	B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
		A	0.000	0.000	42.250	0.000	0.268
T10	120.000-100.000	B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
		A	0.000	0.000	42.250	0.000	0.268
T11	100.000-80.000	B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
		A	0.000	0.000	42.250	0.000	0.268
T12	80.000-60.000	B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
		A	0.000	0.000	42.250	0.000	0.268
T13	60.000-40.000	B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
		A	0.000	0.000	42.250	0.000	0.268
T14	40.000-20.000	B	0.000	0.000	39.000	0.000	0.250
		C	0.000	0.000	58.500	0.000	0.374
		A	0.000	0.000	42.250	0.000	0.268
T15	20.000-5.000	B	0.000	0.000	19.500	0.000	0.125
		C	0.000	0.000	29.250	0.000	0.187
		A	0.000	0.000	21.125	0.000	0.134
T16	5.000-0.000	B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	0.000	0.000	0.000
		A	0.000	0.000	0.000	0.000	0.000

### Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
T1	300.000-280.000	A	1.864	0.000	0.000	18.163	0.000	0.262
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	47.906	0.000	1.125
T2	280.000-260.000	A	1.851	0.000	0.000	29.836	0.000	0.519
		B		0.000	0.000	47.118	0.000	1.039
		C		0.000	0.000	63.792	0.000	1.494
T3	260.000-240.000	A	1.837	0.000	0.000	64.968	0.000	1.290
		B		0.000	0.000	47.024	0.000	1.034
		C		0.000	0.000	63.703	0.000	1.487
T4	240.000-220.000	A	1.821	0.000	0.000	64.745	0.000	1.282
		B		0.000	0.000	46.924	0.000	1.029
		C		0.000	0.000	63.607	0.000	1.480
T5	220.000-200.000	A	1.805	0.000	0.000	64.504	0.000	1.272
		B		0.000	0.000	46.815	0.000	1.023
		C		0.000	0.000	63.504	0.000	1.473
T6	200.000-180.000	A	1.787	0.000	0.000	64.242	0.000	1.262
		B		0.000	0.000	46.696	0.000	1.017
		C		0.000	0.000	63.391	0.000	1.464
T7	180.000-160.000	A	1.767	0.000	0.000	63.953	0.000	1.251
		B		0.000	0.000	46.566	0.000	1.010
		C		0.000	0.000	63.267	0.000	1.455
T8	160.000-140.000	A	1.745	0.000	0.000	63.632	0.000	1.239
		B		0.000	0.000	46.421	0.000	1.002
		C		0.000	0.000	63.130	0.000	1.445
T9	140.000-120.000	A	1.720	0.000	0.000	63.271	0.000	1.225
		B		0.000	0.000	46.257	0.000	0.994

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 18 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A <sub>R</sub> ft <sup>2</sup>	A <sub>F</sub> ft <sup>2</sup>	C <sub>AA</sub> In Face ft <sup>2</sup>	C <sub>AA</sub> Out Face ft <sup>2</sup>	Weight K
T10	120.000-100.000	C		0.000	0.000	62.975	0.000	1.434
		A	1.692	0.000	0.000	62.855	0.000	1.209
		B		0.000	0.000	46.070	0.000	0.984
		C		0.000	0.000	62.797	0.000	1.421
T11	100.000-80.000	A	1.658	0.000	0.000	62.365	0.000	1.191
		B		0.000	0.000	45.848	0.000	0.972
		C		0.000	0.000	62.587	0.000	1.406
T12	80.000-60.000	A	1.617	0.000	0.000	61.765	0.000	1.169
		B		0.000	0.000	45.578	0.000	0.958
		C		0.000	0.000	62.330	0.000	1.387
T13	60.000-40.000	A	1.564	0.000	0.000	60.985	0.000	1.140
		B		0.000	0.000	45.226	0.000	0.940
		C		0.000	0.000	61.996	0.000	1.363
T14	40.000-20.000	A	1.486	0.000	0.000	59.852	0.000	1.099
		B		0.000	0.000	44.715	0.000	0.914
		C		0.000	0.000	61.512	0.000	1.328
T15	20.000-5.000	A	1.361	0.000	0.000	29.020	0.000	0.518
		B		0.000	0.000	21.950	0.000	0.436
		C		0.000	0.000	30.370	0.000	0.637
T16	5.000-0.000	A	1.159	0.000	0.000	0.000	0.000	0.000
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	0.000	0.000	0.000

### Feed Line Center of Pressure

Section	Elevation ft	CP <sub>X</sub> in	CP <sub>Z</sub> in	CP <sub>X</sub> Ice in	CP <sub>Z</sub> Ice in
T1	300.000-280.000	-0.628	2.516	-0.914	0.623
T2	280.000-260.000	0.830	-1.149	0.084	-0.598
T3	260.000-240.000	-0.386	-2.188	-0.693	-1.199
T4	240.000-220.000	-0.404	-2.294	-0.753	-1.314
T5	220.000-200.000	-0.404	-2.294	-0.755	-1.323
T6	200.000-180.000	-0.391	-2.217	-0.713	-1.255
T7	180.000-160.000	-0.404	-2.294	-0.758	-1.344
T8	160.000-140.000	-0.404	-2.294	-0.759	-1.356
T9	140.000-120.000	-0.391	-2.217	-0.720	-1.293
T10	120.000-100.000	-0.404	-2.294	-0.762	-1.386
T11	100.000-80.000	-0.404	-2.294	-0.764	-1.405
T12	80.000-60.000	-0.391	-2.217	-0.727	-1.353
T13	60.000-40.000	-0.404	-2.294	-0.767	-1.457
T14	40.000-20.000	-0.404	-2.294	-0.768	-1.500
T15	20.000-5.000	-0.364	-2.026	-0.638	-1.285
T16	5.000-0.000	0.000	0.000	0.000	0.000

### Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K <sub>a</sub> No Ice	K <sub>a</sub> Ice
T1	1	1-5/8" Hybrid	280.00 - 295.00	0.6000	0.4038

# tnxTower

**B+T Engineering**  
1717 S Boulder Ave, Suite 300  
Tulsa, OK 74119  
Phone: (918) 587-4630  
FAX: (918) 295-0265

<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 19 of 54
<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	$K_a$ No Ice	$K_a$ Ice
T1	7	Safety Line 3/8	280.00 - 300.00	0.6000	0.4038
T1	8	Strobe Cable	280.00 - 300.00	0.6000	0.4038
T2	1	1-5/8" Hybrid	260.00 - 280.00	0.6000	0.4331
T2	3	1-5/8" Hybrid	260.00 - 280.00	0.6000	0.4331
T2	5	1-5/8" Hybrid	260.00 - 265.00	0.6000	0.4331
T2	7	Safety Line 3/8	260.00 - 280.00	0.6000	0.4331
T2	8	Strobe Cable	260.00 - 280.00	0.6000	0.4331
T3	1	1-5/8" Hybrid	240.00 - 260.00	0.6000	0.4095
T3	3	1-5/8" Hybrid	240.00 - 260.00	0.6000	0.4095
T3	5	1-5/8" Hybrid	240.00 - 260.00	0.6000	0.4095
T3	7	Safety Line 3/8	240.00 - 260.00	0.6000	0.4095
T3	8	Strobe Cable	240.00 - 260.00	0.6000	0.4095
T4	1	1-5/8" Hybrid	220.00 - 240.00	0.6000	0.4479
T4	3	1-5/8" Hybrid	220.00 - 240.00	0.6000	0.4479
T4	5	1-5/8" Hybrid	220.00 - 240.00	0.6000	0.4479
T4	7	Safety Line 3/8	220.00 - 240.00	0.6000	0.4479
T4	8	Strobe Cable	220.00 - 240.00	0.6000	0.4479
T5	1	1-5/8" Hybrid	200.00 - 220.00	0.6000	0.4512
T5	3	1-5/8" Hybrid	200.00 - 220.00	0.6000	0.4512
T5	5	1-5/8" Hybrid	200.00 - 220.00	0.6000	0.4512
T5	7	Safety Line 3/8	200.00 - 220.00	0.6000	0.4512
T5	8	Strobe Cable	200.00 - 220.00	0.6000	0.4512
T6	1	1-5/8" Hybrid	180.00 - 200.00	0.6000	0.4287
T6	3	1-5/8" Hybrid	180.00 - 200.00	0.6000	0.4287
T6	5	1-5/8" Hybrid	180.00 - 200.00	0.6000	0.4287
T6	7	Safety Line 3/8	180.00 - 200.00	0.6000	0.4287
T6	8	Strobe Cable	180.00 - 200.00	0.6000	0.4287
T7	1	1-5/8" Hybrid	160.00 - 180.00	0.6000	0.4589
T7	3	1-5/8" Hybrid	160.00 - 180.00	0.6000	0.4589
T7	5	1-5/8" Hybrid	160.00 - 180.00	0.6000	0.4589
T7	7	Safety Line 3/8	160.00 - 180.00	0.6000	0.4589

# tnxTower

**B+T Engineering**  
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**Job**

ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)

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**Project**

300' 36G/37.36302222, -87.93053056

**Date**

15:55:57 03/06/26

**Client**

APC Towers

**Designed by**

aashwood

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	$K_a$ No Ice	$K_a$ Ice
T7	8	Strobe Cable	160.00 - 180.00	0.6000	0.4589
T8	1	1-5/8" Hybrid	140.00 - 160.00	0.6000	0.4634
T8	3	1-5/8" Hybrid	140.00 - 160.00	0.6000	0.4634
T8	5	1-5/8" Hybrid	140.00 - 160.00	0.6000	0.4634
T8	7	Safety Line 3/8	140.00 - 160.00	0.6000	0.4634
T8	8	Strobe Cable	140.00 - 160.00	0.6000	0.4634
T9	1	1-5/8" Hybrid	120.00 - 140.00	0.6000	0.4427
T9	3	1-5/8" Hybrid	120.00 - 140.00	0.6000	0.4427
T9	5	1-5/8" Hybrid	120.00 - 140.00	0.6000	0.4427
T9	7	Safety Line 3/8	120.00 - 140.00	0.6000	0.4427
T9	8	Strobe Cable	120.00 - 140.00	0.6000	0.4427
T10	1	1-5/8" Hybrid	100.00 - 120.00	0.6000	0.4743
T10	3	1-5/8" Hybrid	100.00 - 120.00	0.6000	0.4743
T10	5	1-5/8" Hybrid	100.00 - 120.00	0.6000	0.4743
T10	7	Safety Line 3/8	100.00 - 120.00	0.6000	0.4743
T10	8	Strobe Cable	100.00 - 120.00	0.6000	0.4743
T11	1	1-5/8" Hybrid	80.00 - 100.00	0.6000	0.4812
T11	3	1-5/8" Hybrid	80.00 - 100.00	0.6000	0.4812
T11	5	1-5/8" Hybrid	80.00 - 100.00	0.6000	0.4812
T11	7	Safety Line 3/8	80.00 - 100.00	0.6000	0.4812
T11	8	Strobe Cable	80.00 - 100.00	0.6000	0.4812
T12	1	1-5/8" Hybrid	60.00 - 80.00	0.6000	0.4645
T12	3	1-5/8" Hybrid	60.00 - 80.00	0.6000	0.4645
T12	5	1-5/8" Hybrid	60.00 - 80.00	0.6000	0.4645
T12	7	Safety Line 3/8	60.00 - 80.00	0.6000	0.4645
T12	8	Strobe Cable	60.00 - 80.00	0.6000	0.4645
T13	1	1-5/8" Hybrid	40.00 - 60.00	0.6000	0.5008
T13	3	1-5/8" Hybrid	40.00 - 60.00	0.6000	0.5008
T13	5	1-5/8" Hybrid	40.00 - 60.00	0.6000	0.5008
T13	7	Safety Line 3/8	40.00 - 60.00	0.6000	0.5008
T13	8	Strobe Cable	40.00 - 60.00	0.6000	0.5008
T14	1	1-5/8" Hybrid	20.00 - 40.00	0.6000	0.5170
T14	3	1-5/8" Hybrid	20.00 - 40.00	0.6000	0.5170
T14	5	1-5/8" Hybrid	20.00 - 40.00	0.6000	0.5170
T14	7	Safety Line 3/8	20.00 - 40.00	0.6000	0.5170
T14	8	Strobe Cable	20.00 - 40.00	0.6000	0.5170
T15	1	1-5/8" Hybrid	10.00 - 20.00	0.6000	0.5398
T15	3	1-5/8" Hybrid	10.00 - 20.00	0.6000	0.5398
T15	5	1-5/8" Hybrid	10.00 - 20.00	0.6000	0.5398
T15	7	Safety Line 3/8	10.00 - 20.00	0.6000	0.5398
T15	8	Strobe Cable	10.00 - 20.00	0.6000	0.5398

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b>	<b>Page</b>
	ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	21 of 54
	<b>Project</b>	<b>Date</b>
	300' 36G/37.36302222, -87.93053056	15:55:57 03/06/26
<b>Client</b>	APC Towers	<b>Designed by</b>
		aashwood

## Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets:		Azimuth Adjustment	Placement	C <sub>A</sub> A <sub>A</sub> Front	C <sub>A</sub> A <sub>A</sub> Side	Weight	
			Horz Lateral	Vert						
			ft	ft	°	ft	ft <sup>2</sup>	ft <sup>2</sup>	K	
5' Lightning Rod	C	From Leg	0.000	0.000	0.000	300.000	No Ice	1.000	1.000	0.040
			0.000				1/2" Ice	2.017	2.017	0.049
			3.000				1" Ice	3.050	3.050	0.065
							2" Ice	5.148	5.148	0.116
Top Beacon	B	From Leg	0.000	0.000	0.000	300.000	No Ice	2.700	2.700	0.050
			0.000				1/2" Ice	3.100	3.100	0.070
			1.000				1" Ice	3.500	3.500	0.090
							2" Ice	4.300	4.300	0.130
**										
Sector1(CaAa=14000 Sq.in)No Ice (Carrier 1)	A	From Leg	4.000	0.000	0.000	295.000	No Ice	97.222	65.139	0.700
			0.000				1/2" Ice	121.528	81.423	1.400
			0.000				1" Ice	145.834	97.707	2.100
							2" Ice	194.446	130.275	3.500
Sector2(CaAa=14000 Sq.in)No Ice (Carrier 1)	B	From Leg	4.000	0.000	0.000	295.000	No Ice	97.222	65.139	0.700
			0.000				1/2" Ice	121.528	81.423	1.400
			0.000				1" Ice	145.834	97.707	2.100
							2" Ice	194.446	130.275	3.500
Sector3(CaAa=14000 Sq.in)No Ice (Carrier 1)	C	From Leg	4.000	0.000	0.000	295.000	No Ice	97.222	65.139	0.700
			0.000				1/2" Ice	121.528	81.423	1.400
			0.000				1" Ice	145.834	97.707	2.100
							2" Ice	194.446	130.275	3.500
**										
Sector1(CaAa=10000 Sq.in)No Ice (Carrier 2)	A	From Leg	4.000	0.000	0.000	280.000	No Ice	69.444	46.527	0.700
			0.000				1/2" Ice	86.805	58.159	1.400
			0.000				1" Ice	104.166	69.791	2.100
							2" Ice	138.888	93.055	3.500
Sector2(CaAa=10000 Sq.in)No Ice (Carrier 2)	B	From Leg	4.000	0.000	0.000	280.000	No Ice	69.444	46.527	0.700
			0.000				1/2" Ice	86.805	58.159	1.400
			0.000				1" Ice	104.166	69.791	2.100
							2" Ice	138.888	93.055	3.500
Sector3(CaAa=10000 Sq.in)No Ice (Carrier 2)	C	From Leg	4.000	0.000	0.000	280.000	No Ice	69.444	46.527	0.700
			0.000				1/2" Ice	86.805	58.159	1.400
			0.000				1" Ice	104.166	69.791	2.100
							2" Ice	138.888	93.055	3.500
**										
Sector1(CaAa=10000 Sq.in)No Ice (Carrier 3)	A	From Leg	4.000	0.000	0.000	265.000	No Ice	69.444	46.527	0.700
			0.000				1/2" Ice	86.805	58.159	1.400
			0.000				1" Ice	104.166	69.791	2.100
							2" Ice	138.888	93.055	3.500
Sector2(CaAa=10000 Sq.in)No Ice (Carrier 3)	B	From Leg	4.000	0.000	0.000	265.000	No Ice	69.444	46.527	0.700
			0.000				1/2" Ice	86.805	58.159	1.400
			0.000				1" Ice	104.166	69.791	2.100
							2" Ice	138.888	93.055	3.500
Sector3(CaAa=10000 Sq.in)No Ice (Carrier 3)	C	From Leg	4.000	0.000	0.000	265.000	No Ice	69.444	46.527	0.700
			0.000				1/2" Ice	86.805	58.159	1.400
			0.000				1" Ice	104.166	69.791	2.100
							2" Ice	138.888	93.055	3.500
**										

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 22 of 54
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	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

## Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy
3	1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy
4	1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy
5	1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy
6	1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy
7	1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy
8	1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy
9	1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy
10	1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy
11	1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy
12	1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy
13	1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy
14	1.2 Dead+1.0 Ice+1.0 Temp+Guy
15	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy
16	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy
17	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy
18	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy
19	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy
20	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy
21	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy
22	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy
23	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy
24	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy
25	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy
26	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy
27	Dead+Wind 0 deg - Service+Guy
28	Dead+Wind 30 deg - Service+Guy
29	Dead+Wind 60 deg - Service+Guy
30	Dead+Wind 90 deg - Service+Guy
31	Dead+Wind 120 deg - Service+Guy
32	Dead+Wind 150 deg - Service+Guy
33	Dead+Wind 180 deg - Service+Guy
34	Dead+Wind 210 deg - Service+Guy
35	Dead+Wind 240 deg - Service+Guy
36	Dead+Wind 270 deg - Service+Guy
37	Dead+Wind 300 deg - Service+Guy
38	Dead+Wind 330 deg - Service+Guy

## Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	300 - 280	Leg	Max Tension	9	10.091	-0.048	0.024
			Max. Compression	3	-34.685	0.128	-0.257
			Max. Mx	5	-14.941	-0.396	-0.027
			Max. My	13	-33.965	-0.058	-0.383
			Max. Vy	5	2.337	-0.176	0.022
			Max. Vx	3	-2.286	-0.067	0.167
			Max Tension	5	7.877	0.000	0.000
		Diagonal	Max. Compression	11	-7.887	0.000	0.000
			Max. Mx	21	-0.637	0.014	0.000
			Max. My	5	-0.943	0.000	-0.000
			Max. Vy	21	-0.015	0.000	0.000

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b>	ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b>	23 of 54
	<b>Project</b>	300' 36G/37.36302222, -87.93053056	<b>Date</b>	15:55:57 03/06/26
	<b>Client</b>	APC Towers	<b>Designed by</b>	aashwood

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
		Horizontal	Max. Vx	5	0.000	0.000	0.000	
			Max Tension	3	2.725	0.000	0.000	
			Max. Compression	9	-2.750	0.000	0.000	
			Max. Mx	16	0.109	0.009	0.000	
			Max. My	11	2.714	0.000	0.000	
			Max. Vy	16	0.012	0.000	0.000	
			Top Girt	Max. Vx	11	-0.000	0.000	0.000
				Max Tension	9	0.085	0.000	0.000
				Max. Compression	3	-0.087	0.000	0.000
				Max. Mx	26	0.006	0.009	0.000
				Max. My	11	0.046	0.000	0.000
				Max. Vy	26	0.012	0.000	0.000
		Bottom Girt	Max. Vx	11	-0.000	0.000	0.000	
			Max Tension	8	1.715	0.000	0.000	
			Max. Compression	2	-1.568	0.000	0.000	
			Max. Mx	16	-0.132	0.009	0.000	
			Max. My	11	1.332	0.000	0.000	
			Max. Vy	21	0.012	0.000	0.000	
		Guy A	Max. Vx	11	-0.000	0.000	0.000	
			Bottom Tension	9	17.480			
			Top Tension	9	17.669			
			Top Cable Vert	9	15.453			
			Top Cable Norm	9	8.568			
			Top Cable Tan	9	0.017			
			Bot Cable Vert	9	-15.052			
			Bot Cable Norm	9	8.883			
			Bot Cable Tan	9	0.247			
			Guy B	Bottom Tension	13	17.288		
		Top Tension		13	17.477			
		Top Cable Vert		13	15.287			
		Top Cable Norm		13	8.471			
		Top Cable Tan		13	0.014			
		Bot Cable Vert		13	-14.887			
		Guy C	Bot Cable Norm	13	8.786			
			Bot Cable Tan	13	0.243			
			Bottom Tension	3	17.462			
			Top Tension	3	17.651			
			Top Cable Vert	3	15.437			
			Top Cable Norm	3	8.559			
		Top Guy Pull-Off	Top Cable Tan	3	0.017			
			Bot Cable Vert	3	-15.037			
			Bot Cable Norm	3	8.874			
			Bot Cable Tan	3	0.246			
			Max Tension	3	6.413	0.000	0.000	
			Max. Compression	9	-6.388	0.000	0.000	
		Torque Arm Top	Max. Mx	26	0.670	0.027	0.000	
			Max. My	11	-3.525	0.000	0.000	
			Max. Vy	26	-0.036	0.000	0.000	
			Max. Vx	11	-0.000	0.000	0.000	
			Max Tension	9	9.398	0.000	0.000	
			Max. Compression	9	-4.394	0.000	0.000	
			Max. Mx	9	0.549	-46.092	-0.000	
			Max. My	11	-1.305	-22.436	-0.000	
			Max. Vy	9	15.401	-46.092	-0.000	
			Max. Vx	11	-0.000	-22.436	-0.000	
T2	280 - 260	Leg	Max Tension	1	0.000	0.000	0.000	
			Max. Compression	9	-36.269	0.082	-0.040	
			Max. Mx	5	-20.968	1.344	-0.367	
			Max. My	9	-20.584	-0.393	1.362	
			Max. Vy	11	-3.390	0.027	-0.050	
			Max. Vx	3	-3.381	0.451	-1.255	

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 24 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T3	260 - 240	Diagonal	Max Tension	7	10.126	0.000	0.000	
			Max. Compression	13	-10.420	0.000	0.000	
			Max. Mx	20	1.432	0.014	0.000	
			Max. My	11	0.740	0.000	0.000	
			Max. Vy	20	-0.015	0.000	0.000	
			Max. Vx	11	-0.000	0.000	0.000	
		Horizontal	Max Tension	3	1.870	0.000	0.000	
			Max. Compression	9	-1.657	0.000	0.000	
			Max. Mx	21	0.032	0.009	0.000	
			Max. My	11	0.095	0.000	0.000	
			Max. Vy	21	0.012	0.000	0.000	
			Max. Vx	11	-0.000	0.000	0.000	
		Top Girt	Max Tension	7	0.830	0.000	0.000	
			Max. Compression	13	-0.820	0.000	0.000	
			Max. Mx	21	0.024	0.009	0.000	
			Max. My	11	0.808	0.000	0.000	
			Max. Vy	21	0.012	0.000	0.000	
		Bottom Girt	Max. Vx	11	-0.000	0.000	0.000	
			Max Tension	13	3.651	0.000	0.000	
			Max. Compression	7	-3.473	0.000	0.000	
			Max. Mx	21	0.291	0.009	0.000	
			Max. My	11	-3.407	0.000	0.000	
		Leg	Max. Vy	21	0.012	0.000	0.000	
			Max. Vx	11	-0.000	0.000	0.000	
			Max Tension	8	8.639	0.058	0.010	
			Max. Compression	2	-52.055	0.186	-0.008	
			Max. Mx	11	-12.758	1.333	-0.359	
			Max. My	3	-13.521	-0.390	1.350	
			Max. Vy	5	3.394	-1.270	0.254	
			Max. Vx	9	3.379	0.454	-1.240	
			Diagonal	Max Tension	13	10.247	0.000	0.000
				Max. Compression	7	-10.449	0.000	0.000
		Max. Mx		22	1.464	0.014	0.000	
		Max. My		5	-0.390	0.000	-0.000	
		Max. Vy		22	-0.014	0.000	0.000	
		Horizontal	Max. Vx	5	0.000	0.000	0.000	
			Max Tension	3	1.076	0.000	0.000	
			Max. Compression	9	-1.033	0.000	0.000	
			Max. Mx	21	0.233	0.009	0.000	
			Max. My	11	1.014	0.000	0.000	
			Max. Vy	21	-0.011	0.000	0.000	
		Top Girt	Max. Vx	11	-0.000	0.000	0.000	
Max Tension	7		3.602	0.000	0.000			
Max. Compression	13		-3.563	0.000	0.000			
Max. Mx	21		-0.161	0.009	0.000			
Max. My	11		3.531	0.000	0.000			
Bottom Girt	Max. Vy	21	-0.011	0.000	0.000			
	Max. Vx	11	-0.000	0.000	0.000			
	Max Tension	13	1.517	0.000	0.000			
	Max. Compression	7	-1.377	0.000	0.000			
	Max. Mx	21	0.046	0.009	0.000			
	Max. My	11	0.092	0.000	0.000			
Guy A	Max. Vy	21	-0.011	0.000	0.000			
	Max. Vx	11	-0.000	0.000	0.000			
	Bottom Tension	9	13.864					
	Top Tension	9	13.990					
	Top Cable Vert	9	11.760					
	Top Cable Norm	9	7.578					
	Top Cable Tan	9	0.012					
Bot Cable Vert	9	-11.463						
Bot Cable Norm	9	7.796						

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 25 of 54
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	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T4	240 - 220	Guy B	Bot Cable Tan	9	0.184			
			Bottom Tension	13	13.724			
			Top Tension	13	13.850			
			Top Cable Vert	13	11.644			
			Top Cable Norm	13	7.499			
			Top Cable Tan	13	0.009			
			Bot Cable Vert	13	-11.347			
			Bot Cable Norm	13	7.718			
			Bot Cable Tan	13	0.182			
			Guy C	Bottom Tension	3	13.874		
				Top Tension	3	14.000		
				Top Cable Vert	3	11.768		
				Top Cable Norm	3	7.583		
				Top Cable Tan	3	0.012		
				Bot Cable Vert	3	-11.471		
		Bot Cable Norm		3	7.801			
		Bot Cable Tan		3	0.184			
		Top Guy Pull-Off		Max Tension	3	6.087	0.000	0.000
				Max. Compression	9	-5.847	0.000	0.000
			Max. Mx	21	0.981	0.026	0.000	
			Max. My	11	-2.964	0.000	0.000	
			Max. Vy	21	-0.035	0.000	0.000	
			Max. Vx	11	-0.000	0.000	0.000	
			Torque Arm Top	Max Tension	3	8.374	0.000	0.000
				Max. Compression	3	-3.922	0.000	0.000
				Max. Mx	9	0.302	-35.456	-0.000
				Max. My	11	-1.220	-16.849	-0.000
		Max. Vy		9	11.856	-35.456	-0.000	
		Max. Vx		11	-0.000	-16.849	-0.000	
		Leg		Max Tension	1	0.000	0.000	0.000
			Max. Compression	10	-44.865	-0.137	0.222	
			Max. Mx	11	-28.306	-0.480	-0.035	
			Max. My	7	-29.676	0.262	0.541	
			Max. Vy	5	-1.091	-0.120	-0.010	
			Max. Vx	13	1.303	0.056	0.115	
			Diagonal	Max Tension	13	2.763	0.000	0.000
				Max. Compression	7	-3.088	0.000	0.000
				Max. Mx	18	-0.127	0.011	0.000
				Max. My	11	1.375	0.000	0.000
				Max. Vy	18	0.011	0.000	0.000
				Max. Vx	11	-0.000	0.000	0.000
				Horizontal	Max Tension	7	0.601	0.000
			Max. Compression		13	-0.276	0.000	0.000
			Max. Mx		21	0.229	0.008	0.000
			Max. My		11	0.086	0.000	0.000
Max. Vy	21		-0.011		0.000	0.000		
Max. Vx	11		-0.000		0.000	0.000		
Top Girt	Max Tension		7		1.426	0.000	0.000	
	Max. Compression		13	-1.268	0.000	0.000		
	Max. Mx		21	0.125	0.008	0.000		
	Max. My		11	0.112	0.000	0.000		
	Max. Vy		21	-0.011	0.000	0.000		
	Max. Vx		11	-0.000	0.000	0.000		
	Bottom Girt		Max Tension	13	0.714	0.000	0.000	
Max. Compression			7	-0.551	0.000	0.000		
Max. Mx			14	0.124	0.008	0.000		
Max. My		11	-0.429	0.000	0.000			
Max. Vy		21	-0.011	0.000	0.000			
Max. Vx		11	-0.000	0.000	0.000			
Leg		Max Tension	1	0.000	0.000	0.000		
	Max. Compression	10	-49.353	0.071	0.102			
T5	220 - 200							

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	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T6	200 - 180	Diagonal	Max. Mx	13	-41.788	-0.468	-0.313
			Max. My	9	-42.531	-0.047	0.540
			Max. Vy	5	1.050	0.045	-0.099
			Max. Vx	9	1.164	0.062	0.091
			Max Tension	7	3.128	0.000	0.000
			Max. Compression	13	-3.627	0.000	0.000
			Max. Mx	17	-0.073	0.011	0.000
			Max. My	16	-0.276	0.000	0.000
			Max. Vy	17	-0.011	0.000	0.000
			Max. Vx	16	-0.000	0.000	0.000
			Max Tension	13	0.595	0.000	0.000
			Max. Compression	7	-0.218	0.000	0.000
		Horizontal	Max. Mx	14	0.218	0.008	0.000
			Max. My	11	0.254	0.000	0.000
			Max. Vy	14	-0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
			Max Tension	7	0.730	0.000	0.000
			Max. Compression	13	-0.607	0.000	0.000
		Top Girt	Max. Mx	14	0.053	0.008	0.000
			Max. My	11	0.640	0.000	0.000
			Max. Vy	21	-0.011	0.000	0.000
			Max. Vx	11	-0.000	0.000	0.000
			Max Tension	13	1.289	0.000	0.000
			Max. Compression	7	-1.068	0.000	0.000
		Bottom Girt	Max. Mx	14	0.130	0.008	0.000
			Max. My	13	1.289	0.000	-0.000
			Max. Vy	14	-0.011	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	10	-57.474	-0.105	-0.175
		Leg	Max. Mx	5	-34.577	-0.500	-0.065
			Max. My	13	-37.159	0.224	0.529
			Max. Vy	5	1.059	-0.363	0.038
			Max. Vx	9	1.180	0.167	-0.364
			Max Tension	13	3.394	0.000	0.000
			Max. Compression	7	-3.684	0.000	0.000
			Max. Mx	17	0.124	0.011	0.000
			Max. My	16	-0.140	0.000	0.000
			Max. Vy	17	-0.011	0.000	0.000
			Max. Vx	16	0.000	0.000	0.000
			Max Tension	7	0.672	0.000	0.000
			Max. Compression	13	-0.126	0.000	0.000
Horizontal	Max. Mx	14	0.231	0.008	0.000		
	Max. My	13	0.141	0.000	-0.000		
	Max. Vy	14	0.011	0.000	0.000		
	Max. Vx	13	0.000	0.000	0.000		
	Max Tension	7	1.281	0.000	0.000		
	Max. Compression	13	-1.192	0.000	0.000		
Top Girt	Max. Mx	14	0.053	0.008	0.000		
	Max. My	13	-1.192	0.000	-0.000		
	Max. Vy	14	0.011	0.000	0.000		
	Max. Vx	13	0.000	0.000	0.000		
	Max Tension	13	1.274	0.000	0.000		
	Max. Compression	7	-1.098	0.000	0.000		
Bottom Girt	Max. Mx	14	0.116	0.008	0.000		
	Max. My	13	-0.277	0.000	-0.000		
	Max. Vy	14	0.011	0.000	0.000		
	Max. Vx	13	0.000	0.000	0.000		
	Max Tension	9	11.227				
	Max. Compression	9	11.301				
Guy A	Bottom Tension	9	8.606				
	Top Tension	9					
	Top Cable Vert	9					

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 27 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T7	180 - 160	Guy B	Top Cable Norm	9	7.324			
			Top Cable Tan	9	0.013			
			Bot Cable Vert	9	-8.407			
			Bot Cable Norm	9	7.440			
			Bot Cable Tan	9	0.129			
			Bottom Tension	13	11.205			
			Top Tension	13	11.279			
			Top Cable Vert	13	8.589			
			Top Cable Norm	13	7.310			
			Top Cable Tan	13	0.013			
			Bot Cable Vert	13	-8.390			
			Bot Cable Norm	13	7.425			
			Bot Cable Tan	13	0.129			
			Bottom Tension	3	11.237			
			Top Tension	3	11.311			
		Top Cable Vert	3	8.614				
		Top Cable Norm	3	7.331				
		Top Cable Tan	3	0.014				
		Bot Cable Vert	3	-8.415				
		Bot Cable Norm	3	7.447				
		Bot Cable Tan	3	0.130				
		Top Guy Pull-Off	Max Tension	7	3.802	0.000	0.000	
			Max. Compression	1	0.000	0.000	0.000	
			Max. Mx	17	1.456	0.026	0.000	
			Max. My	13	3.550	0.000	-0.000	
			Max. Vy	17	-0.034	0.000	0.000	
			Max. Vx	13	0.000	0.000	0.000	
		Leg	Max Tension	1	0.000	0.000	0.000	
			Max. Compression	15	-52.912	0.083	-0.144	
			Max. Mx	11	-34.862	-0.471	-0.021	
			Max. My	7	-37.413	0.250	0.491	
			Max. Vy	5	-0.998	-0.122	-0.010	
			Max. Vx	13	1.100	0.057	0.111	
			Diagonal	Max Tension	13	1.975	0.000	0.000
				Max. Compression	7	-2.331	0.000	0.000
				Max. Mx	25	-0.330	0.010	0.000
				Max. My	13	-1.150	0.000	0.000
				Max. Vy	25	0.011	0.000	0.000
			Horizontal	Max. Vx	13	-0.000	0.000	0.000
				Max Tension	7	0.581	0.000	0.000
				Max. Compression	13	-0.205	0.000	0.000
				Max. Mx	25	0.207	0.008	0.000
		Max. My		13	0.340	0.000	-0.000	
		Top Girt	Max. Vy	25	-0.011	0.000	0.000	
			Max. Vx	13	0.000	0.000	0.000	
Max Tension	7		1.175	0.000	0.000			
Max. Compression	13		-1.013	0.000	0.000			
Max. Mx	18		0.006	0.008	0.000			
Bottom Girt	Max. My	13	0.385	0.000	-0.000			
	Max. Vy	18	-0.011	0.000	0.000			
	Max. Vx	13	0.000	0.000	0.000			
	Max Tension	13	0.476	0.000	0.000			
	Max. Compression	7	-0.289	0.000	0.000			
Leg	Max. Mx	14	0.117	0.008	0.000			
	Max. My	13	0.304	0.000	-0.000			
	Max. Vy	14	-0.011	0.000	0.000			
	Max. Vx	13	0.000	0.000	0.000			
	Max Tension	1	0.000	0.000	0.000			
T8	160 - 140	Leg	Max. Compression	26	-54.607	0.086	0.149	
			Max. Mx	13	-40.021	-0.350	-0.278	
			Max. My	9	-40.792	-0.062	0.436	

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 28 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T9	140 - 120	Diagonal	Max. Vy	5	0.753	0.059	-0.108	
			Max. Vx	9	0.846	0.063	0.109	
			Max Tension	7	2.014	0.000	0.000	
			Max. Compression	13	-2.583	0.000	0.000	
			Max. Mx	25	-0.172	0.010	0.000	
			Max. My	13	0.209	0.000	0.000	
			Max. Vy	25	-0.011	0.000	0.000	
			Max. Vx	13	-0.000	0.000	0.000	
			Max Tension	13	0.521	0.000	0.000	
			Max. Compression	2	-0.102	0.000	0.000	
			Max. Mx	14	0.233	0.008	0.000	
			Max. My	13	0.520	0.000	-0.000	
		Horizontal	Max. Vy	14	-0.011	0.000	0.000	
			Max. Vx	13	0.000	0.000	0.000	
			Max Tension	11	0.364	0.000	0.000	
			Max. Compression	13	-0.229	0.000	0.000	
			Max. Mx	14	0.085	0.008	0.000	
			Max. My	13	-0.204	0.000	-0.000	
			Max. Vy	14	-0.011	0.000	0.000	
			Max. Vx	13	0.000	0.000	0.000	
			Top Girt	Max Tension	13	0.889	0.000	0.000
				Max. Compression	7	-0.694	0.000	0.000
				Max. Mx	14	0.119	0.008	0.000
				Max. My	13	0.889	0.000	-0.000
		Max. Vy		14	-0.011	0.000	0.000	
		Max. Vx		13	0.000	0.000	0.000	
		Bottom Girt		Max Tension	1	0.000	0.000	0.000
				Max. Compression	15	-59.959	0.096	0.163
				Max. Mx	5	-41.693	-0.423	-0.049
				Max. My	2	-48.832	0.042	0.476
				Max. Vy	5	0.765	-0.235	-0.033
				Max. Vx	2	0.892	0.042	0.476
			Leg	Max Tension	13	2.299	0.000	0.000
				Max. Compression	13	-2.764	0.000	0.000
				Max. Mx	26	0.174	0.010	0.000
				Max. My	13	0.503	0.000	0.000
				Max. Vy	26	-0.011	0.000	0.000
				Max. Vx	13	-0.000	0.000	0.000
		Diagonal		Max Tension	7	0.614	0.000	0.000
				Max. Compression	1	0.000	0.000	0.000
				Max. Mx	14	0.258	0.008	0.000
				Max. My	13	0.002	0.000	-0.000
				Max. Vy	14	0.010	0.000	0.000
				Max. Vx	13	0.000	0.000	0.000
			Horizontal	Max Tension	7	0.932	0.000	0.000
				Max. Compression	13	-0.774	0.000	0.000
				Max. Mx	14	0.087	0.008	0.000
				Max. My	13	-0.774	0.000	-0.000
				Max. Vy	14	0.010	0.000	0.000
				Max. Vx	13	0.000	0.000	0.000
		Top Girt		Max Tension	13	0.948	0.000	0.000
				Max. Compression	2	-0.776	0.000	0.000
Max. Mx	14			0.132	0.008	0.000		
Max. My	13			-0.457	0.000	-0.000		
Max. Vy	14			0.010	0.000	0.000		
Max. Vx	13			0.000	0.000	0.000		
Bottom Girt	Bottom Tension		7	8.299				
	Top Tension		7	8.334				
	Top Cable Vert		7	5.214				
	Top Cable Norm		7	6.502				
	Top Cable Tan		7	0.011				

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 29 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T10	120 - 100	Guy B	Bot Cable Vert	7	-5.099			
			Bot Cable Norm	7	6.547			
			Bot Cable Tan	7	0.079			
			Bottom Tension	13	8.308			
			Top Tension	13	8.342			
			Top Cable Vert	13	5.219			
			Top Cable Norm	13	6.508			
			Top Cable Tan	13	0.011			
			Bot Cable Vert	13	-5.105			
			Bot Cable Norm	13	6.554			
			Bot Cable Tan	13	0.079			
			Bottom Tension	3	8.291			
		Guy C	Top Tension	3	8.325			
			Top Cable Vert	3	5.208			
			Top Cable Norm	3	6.495			
			Top Cable Tan	3	0.011			
			Bot Cable Vert	3	-5.094			
			Bot Cable Norm	3	6.541			
		Top Guy Pull-Off	Bot Cable Tan	3	0.080			
			Max Tension	7	3.475	0.000	0.000	
			Max. Compression	1	0.000	0.000	0.000	
			Max. Mx	14	1.681	0.025	0.000	
			Max. My	13	3.180	0.000	-0.000	
			Max. Vy	14	-0.034	0.000	0.000	
			Max. Vx	13	0.000	0.000	0.000	
			Leg	Max Tension	1	0.000	0.000	0.000
				Max. Compression	21	-63.146	-0.198	0.002
				Max. Mx	11	-41.748	-0.400	-0.015
				Max. My	2	-50.397	0.059	-0.401
				Max. Vy	5	-0.775	-0.132	-0.004
		Max. Vx		2	0.917	0.077	0.132	
		Diagonal		Max Tension	2	1.624	0.000	0.000
				Max. Compression	2	-1.973	0.000	0.000
				Max. Mx	16	-0.325	0.010	0.000
				Max. My	13	-0.386	0.000	0.000
				Max. Vy	16	0.010	0.000	0.000
				Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	7	0.510	0.000	0.000	
			Max. Compression	2	-0.136	0.000	0.000	
			Max. Mx	14	0.263	0.008	0.000	
			Max. My	13	0.303	0.000	-0.000	
			Max. Vy	14	0.010	0.000	0.000	
Max. Vx	13		0.000	0.000	0.000			
Top Girt	Max Tension	2	0.874	0.000	0.000			
	Max. Compression	13	-0.671	0.000	0.000			
	Max. Mx	14	0.081	0.008	0.000			
	Max. My	13	0.575	0.000	-0.000			
	Max. Vy	14	0.010	0.000	0.000			
	Max. Vx	13	0.000	0.000	0.000			
Bottom Girt	Max Tension	5	0.231	0.000	0.000			
	Max. Compression	11	-0.030	0.000	0.000			
	Max. Mx	14	0.134	0.008	0.000			
	Max. My	13	0.108	0.000	-0.000			
	Max. Vy	14	0.010	0.000	0.000			
	Max. Vx	13	0.000	0.000	0.000			
Leg	Max Tension	1	0.000	0.000	0.000			
	Max. Compression	20	-64.222	-0.203	0.002			
	Max. Mx	11	-43.158	-0.349	-0.029			
	Max. My	8	-37.687	0.030	0.412			
	Max. Vy	5	0.678	0.068	-0.116			
	Max. Vx	2	-0.857	0.080	0.135			

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	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T12	80 - 60	Diagonal	Max Tension	2	1.464	0.000	0.000	
			Max. Compression	9	-2.049	0.000	0.000	
			Max. Mx	16	-0.026	0.010	0.000	
			Max. My	13	0.879	0.000	0.000	
			Max. Vy	16	0.010	0.000	0.000	
			Max. Vx	13	-0.000	0.000	0.000	
			Horizontal	Max Tension	7	0.515	0.000	0.000
				Max. Compression	2	-0.113	0.000	0.000
				Max. Mx	14	0.267	0.008	0.000
				Max. My	13	0.472	0.000	-0.000
				Max. Vy	14	0.010	0.000	0.000
			Top Girt	Max. Vx	13	0.000	0.000	0.000
				Max Tension	12	0.169	0.000	0.000
				Max. Compression	5	-0.023	0.000	0.000
				Max. Mx	14	0.082	0.008	0.000
		Max. My		13	-0.001	0.000	-0.000	
		Bottom Girt	Max. Vy	14	0.010	0.000	0.000	
			Max. Vx	13	0.000	0.000	0.000	
			Max Tension	2	0.879	0.000	0.000	
			Max. Compression	8	-0.625	0.000	0.000	
			Max. Mx	14	0.135	0.008	0.000	
		Leg	Max. My	13	0.671	0.000	-0.000	
			Max. Vy	14	0.010	0.000	0.000	
			Max. Vx	13	0.000	0.000	0.000	
			Max Tension	1	0.000	0.000	0.000	
			Max. Compression	21	-68.636	-0.218	0.001	
			Max. Mx	6	-52.830	-0.469	-0.209	
			Max. My	2	-54.524	0.043	0.549	
			Max. Vy	11	0.933	0.427	-0.141	
			Max. Vx	2	1.068	-0.120	0.405	
			Diagonal	Max Tension	13	2.497	0.000	0.000
				Max. Compression	7	-3.178	0.000	0.000
				Max. Mx	16	-0.769	0.009	0.000
				Max. My	13	0.756	0.000	0.000
				Max. Vy	16	0.010	0.000	0.000
			Horizontal	Max. Vx	13	-0.000	0.000	0.000
		Max Tension		7	0.642	0.000	0.000	
		Max. Compression		13	-0.005	0.000	0.000	
		Max. Mx		14	0.278	0.007	0.000	
		Max. My		13	0.074	0.000	-0.000	
		Top Girt	Max. Vy	14	0.010	0.000	0.000	
			Max. Vx	13	0.000	0.000	0.000	
			Max Tension	8	0.872	0.000	0.000	
			Max. Compression	2	-0.774	0.000	0.000	
			Max. Mx	14	0.082	0.007	0.000	
Bottom Girt	Max. My	13	-0.544	0.000	-0.000			
	Max. Vy	14	0.010	0.000	0.000			
	Max. Vx	13	0.000	0.000	0.000			
	Max Tension	8	1.149	0.000	0.000			
	Max. Compression	2	-0.949	0.000	0.000			
Guy A	Max. Mx	23	0.245	0.007	0.000			
	Max. My	13	-0.827	0.000	-0.000			
	Max. Vy	23	0.010	0.000	0.000			
	Max. Vx	13	0.000	0.000	0.000			
	Bottom Tension	7	7.367					
	Top Tension	7	7.385					
	Top Cable Vert	7	2.932					
	Top Cable Norm	7	6.778					
	Top Cable Tan	7	0.007					
	Bot Cable Vert	7	-2.857					
Bot Cable Norm	7	6.790						

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 31 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft	
T13	60 - 40	Guy B	Bot Cable Tan	7	0.049			
			Bottom Tension	13	7.370			
			Top Tension	13	7.389			
			Top Cable Vert	13	2.934			
			Top Cable Norm	13	6.782			
			Top Cable Tan	13	0.007			
			Bot Cable Vert	13	-2.859			
			Bot Cable Norm	13	6.793			
			Bot Cable Tan	13	0.048			
			Guy C	Bottom Tension	3	7.349		
				Top Tension	3	7.368		
				Top Cable Vert	3	2.925		
				Top Cable Norm	3	6.762		
				Top Cable Tan	3	0.007		
		Bot Cable Vert		3	-2.850			
		Bot Cable Norm		3	6.773			
		Bot Cable Tan		3	0.049			
		Top Guy Pull-Off		Max Tension	7	3.632	0.000	0.000
				Max. Compression	1	0.000	0.000	0.000
			Max. Mx	14	1.932	0.024	0.000	
			Max. My	13	3.336	0.000	-0.000	
			Max. Vy	14	-0.032	0.000	0.000	
			Max. Vx	13	0.000	0.000	0.000	
			Leg	Max Tension	1	0.000	0.000	0.000
				Max. Compression	21	-72.125	-0.227	0.003
				Max. Mx	5	-42.151	0.417	-0.110
				Max. My	9	-43.051	-0.133	0.485
		Max. Vy		11	0.945	0.068	-0.126	
		Max. Vx		2	1.092	0.088	0.140	
		Diagonal		Max Tension	7	2.530	0.000	0.000
				Max. Compression	13	-2.831	0.000	0.000
				Max. Mx	20	-0.526	0.009	0.000
				Max. My	13	-0.166	0.000	0.000
				Max. Vy	20	-0.009	0.000	0.000
		Horizontal		Max. Vx	13	-0.000	0.000	0.000
				Max Tension	13	0.569	0.000	0.000
				Max. Compression	2	-0.177	0.000	0.000
				Max. Mx	14	0.333	0.007	0.000
				Max. My	13	0.189	0.000	-0.000
				Max. Vy	14	-0.009	0.000	0.000
				Max. Vx	13	0.000	0.000	0.000
				Top Girt	Max Tension	2	1.052	0.000
			Max. Compression		8	-0.895	0.000	0.000
Max. Mx	23		-0.017		0.007	0.000		
Max. My	13	0.955	0.000		-0.000			
Max. Vy	23	-0.009	0.000		0.000			
Bottom Girt	Max. Vx	13	0.000	0.000	0.000			
	Max Tension	7	0.595	0.000	0.000			
	Max. Compression	13	-0.291	0.000	0.000			
	Max. Mx	25	0.135	0.007	0.000			
	Max. My	13	-0.291	0.000	-0.000			
T14	40 - 20	Leg	Max. Vy	25	-0.009	0.000	0.000	
			Max. Vx	13	0.000	0.000	0.000	
			Max Tension	1	0.000	0.000	0.000	
			Max. Compression	21	-73.167	-0.232	0.002	
			Max. Mx	11	-47.005	-0.359	-0.028	
			Max. My	7	-49.182	0.200	0.412	
		Diagonal	Max. Vy	6	0.536	0.081	-0.123	
			Max. Vx	7	0.697	0.074	0.143	
			Max Tension	13	1.070	0.000	0.000	
			Max. Compression	7	-1.743	0.000	0.000	

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b>	ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b>	32 of 54
	<b>Project</b>	300' 36G/37.36302222, -87.93053056	<b>Date</b>	15:55:57 03/06/26
	<b>Client</b>	APC Towers	<b>Designed by</b>	aashwood

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T15	20 - 5	Horizontal	Max. Mx	20	-0.214	0.008	0.000
			Max. My	13	0.410	0.000	0.000
			Max. Vy	20	-0.009	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
			Max Tension	7	0.521	0.000	0.000
			Max. Compression	13	-0.059	0.000	0.000
			Max. Mx	17	0.335	0.007	0.000
			Max. My	13	0.357	0.000	-0.000
			Max. Vy	17	-0.009	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
			Max Tension	13	0.392	0.000	0.000
			Max. Compression	7	-0.323	0.000	0.000
		Top Girt	Max. Mx	25	0.082	0.007	0.000
			Max. My	13	0.392	0.000	-0.000
			Max. Vy	25	-0.009	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
			Max Tension	7	0.806	0.000	0.000
			Max. Compression	13	-0.543	0.000	0.000
			Max. Mx	17	0.207	0.007	0.000
			Max. My	13	0.235	0.000	-0.000
			Max. Vy	17	-0.009	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
			Max Tension	1	0.000	0.000	0.000
			Max. Compression	21	-73.171	-0.197	-0.037
		Diagonal	Max. Mx	24	-72.293	3.515	1.944
			Max. My	21	-72.336	-0.070	-4.021
			Max. Vy	18	10.536	-3.453	2.058
			Max. Vx	21	12.150	-0.070	-4.021
			Max Tension	13	1.756	0.000	0.000
			Max. Compression	7	-2.196	0.000	0.000
			Max. Mx	16	0.110	0.008	0.000
			Max. My	13	0.751	0.000	0.000
			Max. Vy	16	-0.008	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
			Max Tension	13	0.367	0.000	0.000
			Max. Compression	13	-0.276	0.000	0.000
		Horizontal	Max. Mx	25	0.277	0.006	0.000
			Max. My	13	0.211	0.000	-0.000
			Max. Vy	25	0.008	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
			Max Tension	13	0.824	0.000	0.000
			Max. Compression	7	-0.696	0.000	0.000
Max. Mx	17		0.014	0.006	0.000		
Max. My	13		-0.115	0.000	-0.000		
Max. Vy	17		0.008	0.000	0.000		
Max. Vx	13		0.000	0.000	0.000		
Max Tension	19		7.208	0.000	0.000		
Max. Compression	1		0.000	0.000	0.000		
Top Girt	Max. Mx	17	7.053	0.006	0.000		
	Max. My	13	5.118	0.000	-0.000		
	Max. Vy	17	0.008	0.000	0.000		
	Max. Vx	13	0.000	0.000	0.000		
	Max Tension	1	0.000	0.000	0.000		
	Max. Compression	20	-76.492	0.206	0.468		
	Max. Mx	16	-72.287	4.023	-0.067		
	Max. My	13	-51.504	-0.062	-1.470		
	Max. Vy	19	12.720	-1.180	-0.013		
	Max. Vx	7	-3.049	-0.329	1.376		
	Max Tension	7	1.186	0.000	0.000		
	Max. Compression	20	-9.731	0.000	0.000		
Diagonal	Max. Mx	15	-0.620	0.005	0.000		

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 33 of 54
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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	13	-2.031	0.000	0.000
			Max. Vy	15	-0.007	0.000	0.000
			Max. Vx	13	-0.000	0.000	0.000
		Horizontal	Max Tension	13	0.854	0.000	0.000
			Max. Compression	7	-0.418	0.000	0.000
			Max. Mx	25	0.311	0.001	0.000
			Max. My	13	0.664	0.000	-0.000
			Max. Vy	25	-0.003	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Top Girt	Max Tension	15	8.274	0.000	0.000
			Max. Compression	1	0.000	0.000	0.000
			Max. Mx	17	8.073	0.004	0.000
			Max. My	13	5.935	0.000	-0.000
			Max. Vy	17	-0.006	0.000	0.000
			Max. Vx	13	0.000	0.000	0.000
		Bottom Girt	Max Tension	7	2.592	0.000	0.000
			Max. Compression	1	0.000	0.000	0.000
			Max. Mx	23	2.417	0.000	0.000
			Max. Vy	23	-0.001	0.000	0.000

### Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Mast	Max. Vert	15	215.958	-0.006	-0.182
	Max. H <sub>x</sub>	7	147.764	0.633	0.101
	Max. H <sub>z</sub>	5	141.922	0.156	0.365
	Max. M <sub>x</sub>	1	0.000	-0.001	0.005
	Max. M <sub>z</sub>	1	0.000	-0.001	0.005
	Max. Torsion	13	1.228	0.235	-0.593
	Min. Vert	1	75.000	-0.001	0.005
	Min. H <sub>x</sub>	9	148.436	-0.639	0.104
	Min. H <sub>z</sub>	2	163.065	0.000	-1.102
	Min. M <sub>x</sub>	1	0.000	-0.001	0.005
	Min. M <sub>z</sub>	1	0.000	-0.001	0.005
	Min. Torsion	7	-1.505	0.633	0.101
	Guy C @ 165 ft Elev 0 ft Azimuth 240 deg	Max. Vert	35	-2.518	-1.744
	Max. H <sub>x</sub>	10	-2.563	-0.875	0.505
	Max. H <sub>z</sub>	3	-68.384	-45.747	27.733
	Min. Vert	3	-68.384	-45.747	27.733
	Min. H <sub>x</sub>	3	-68.384	-45.747	27.733
	Min. H <sub>z</sub>	9	-3.446	-1.763	0.413
Guy B @ 165 ft Elev 0 ft Azimuth 120 deg	Max. Vert	6	-2.580	0.884	0.510
	Max. H <sub>x</sub>	13	-67.917	45.516	27.584
	Max. H <sub>z</sub>	13	-67.917	45.516	27.584
	Min. Vert	13	-67.917	45.516	27.584
	Min. H <sub>x</sub>	6	-2.580	0.884	0.510
	Min. H <sub>z</sub>	7	-3.468	1.774	0.419
Guy A @ 165 ft Elev 0 ft Azimuth 0 deg	Max. Vert	27	-1.917	-0.000	-1.511
	Max. H <sub>x</sub>	10	-56.445	1.659	-43.419

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	<p><b>Client</b></p> <p>APC Towers</p>	<p><b>Designed by</b></p> <p>aashwood</p>

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Max. H <sub>z</sub>	2	-2.477	-0.000	-0.945
	Min. Vert	9	-68.416	1.143	-53.496
	Min. H <sub>x</sub>	6	-56.037	-1.648	-43.188
	Min. H <sub>z</sub>	9	-68.416	1.143	-53.496

## Tower Mast Reaction Summary

Load Combination	Vertical K	Shear <sub>x</sub> K	Shear <sub>z</sub> K	Overturning Moment, M <sub>x</sub> kip-ft	Overturning Moment, M <sub>z</sub> kip-ft	Torque kip-ft
Dead Only	75.000	0.001	-0.005	0.000	0.000	0.062
1.2 Dead+1.0 Wind 0 deg - No Ice+1.0 Guy	163.065	-0.000	1.102	0.000	0.000	-0.049
1.2 Dead+1.0 Wind 30 deg - No Ice+1.0 Guy	148.391	0.234	0.595	0.000	0.000	1.133
1.2 Dead+1.0 Wind 60 deg - No Ice+1.0 Guy	120.173	0.384	-0.221	0.000	0.000	0.327
1.2 Dead+1.0 Wind 90 deg - No Ice+1.0 Guy	141.922	-0.156	-0.365	0.000	0.000	-0.554
1.2 Dead+1.0 Wind 120 deg - No Ice+1.0 Guy	155.320	-0.587	-0.346	0.000	0.000	0.539
1.2 Dead+1.0 Wind 150 deg - No Ice+1.0 Guy	147.764	-0.633	-0.101	0.000	0.000	1.505
1.2 Dead+1.0 Wind 180 deg - No Ice+1.0 Guy	122.946	0.002	0.428	0.000	0.000	0.340
1.2 Dead+1.0 Wind 210 deg - No Ice+1.0 Guy	148.436	0.639	-0.104	0.000	0.000	-0.863
1.2 Dead+1.0 Wind 240 deg - No Ice+1.0 Guy	156.121	0.593	-0.346	0.000	0.000	-0.042
1.2 Dead+1.0 Wind 270 deg - No Ice+1.0 Guy	141.926	0.158	-0.363	0.000	0.000	0.808
1.2 Dead+1.0 Wind 300 deg - No Ice+1.0 Guy	119.863	-0.384	-0.217	0.000	0.000	-0.359
1.2 Dead+1.0 Wind 330 deg - No Ice+1.0 Guy	147.720	-0.235	0.593	0.000	0.000	-1.228
1.2 Dead+1.0 Ice+1.0 Temp+Guy	214.479	0.006	-0.014	0.000	0.000	0.196
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.958	0.006	0.182	0.000	0.000	0.142
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.633	-0.064	0.132	0.000	0.000	0.195
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.319	-0.112	0.056	0.000	0.000	0.172
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.592	-0.136	-0.021	0.000	0.000	0.156
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.916	-0.141	-0.099	0.000	0.000	0.229
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.643	-0.084	-0.149	0.000	0.000	0.292
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.374	0.006	-0.166	0.000	0.000	0.254
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.650	0.097	-0.148	0.000	0.000	0.201
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.926	0.153	-0.098	0.000	0.000	0.224
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.599	0.149	-0.020	0.000	0.000	0.239

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<b>Client</b>	APC Towers	<b>Designed by</b>
		aashwood

Load Combination	Vertical	Shear <sub>x</sub>	Shear <sub>z</sub>	Overturning Moment, M <sub>x</sub>	Overturning Moment, M <sub>z</sub>	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.320	0.125	0.057	0.000	0.000	0.166
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp+1.0 Guy	215.629	0.077	0.133	0.000	0.000	0.103
Dead+Wind 0 deg - Service+Guy	76.603	0.001	-0.322	0.000	0.000	-0.016
Dead+Wind 30 deg - Service+Guy	78.019	0.154	-0.265	0.000	0.000	0.428
Dead+Wind 60 deg - Service+Guy	78.148	0.247	-0.147	0.000	0.000	0.135
Dead+Wind 90 deg - Service+Guy	77.542	0.280	-0.003	0.000	0.000	-0.180
Dead+Wind 120 deg - Service+Guy	76.142	0.262	0.145	0.000	0.000	0.211
Dead+Wind 150 deg - Service+Guy	77.974	0.150	0.257	0.000	0.000	0.567
Dead+Wind 180 deg - Service+Guy	78.402	0.001	0.308	0.000	0.000	0.144
Dead+Wind 210 deg - Service+Guy	78.023	-0.147	0.258	0.000	0.000	-0.300
Dead+Wind 240 deg - Service+Guy	76.146	-0.260	0.146	0.000	0.000	-0.006
Dead+Wind 270 deg - Service+Guy	77.546	-0.278	-0.002	0.000	0.000	0.307
Dead+Wind 300 deg - Service+Guy	78.120	-0.245	-0.147	0.000	0.000	-0.088
Dead+Wind 330 deg - Service+Guy	77.965	-0.153	-0.265	0.000	0.000	-0.440

## Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-34.242	0.000	-0.000	34.241	-0.000	0.002%
2	-0.000	-40.682	-48.001	0.000	40.682	47.992	0.015%
3	23.448	-40.514	-40.613	-23.448	40.514	40.606	0.012%
4	38.569	-40.347	-22.268	-38.570	40.347	22.263	0.008%
5	43.248	-40.514	0.000	-43.242	40.514	0.004	0.012%
6	38.412	-40.682	22.177	-38.404	40.682	-22.173	0.014%
7	23.320	-40.514	40.391	-23.313	40.514	-40.388	0.012%
8	0.000	-40.347	47.927	-0.000	40.346	-47.920	0.011%
9	-23.448	-40.514	40.613	23.441	40.514	-40.609	0.012%
10	-38.633	-40.682	22.305	38.626	40.682	-22.301	0.014%
11	-43.248	-40.514	0.000	43.242	40.514	0.004	0.012%
12	-38.347	-40.347	-22.139	38.349	40.347	22.135	0.008%
13	-23.320	-40.514	-40.391	23.320	40.514	40.384	0.012%
14	0.000	-148.807	0.000	-0.000	148.807	-0.003	0.002%
15	0.000	-148.918	-9.350	-0.000	148.918	9.345	0.003%
16	4.640	-148.807	-8.037	-4.640	148.807	8.032	0.004%
17	7.917	-148.696	-4.571	-7.916	148.696	4.570	0.001%
18	9.062	-148.807	0.000	-9.061	148.807	0.001	0.001%
19	7.908	-148.918	4.565	-7.903	148.918	-4.563	0.003%
20	4.633	-148.807	8.024	-4.632	148.807	-8.024	0.001%
21	0.000	-148.696	9.346	0.000	148.696	-9.345	0.001%
22	-4.640	-148.807	8.037	4.639	148.807	-8.037	0.001%
23	-7.920	-148.918	4.573	7.916	148.918	-4.571	0.003%
24	-9.062	-148.807	0.000	9.061	148.807	0.001	0.001%

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		<b>Designed by</b>
		aashwood

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
25	-7.904	-148.696	-4.563	7.903	148.696	4.563	0.001%
26	-4.633	-148.807	-8.024	4.633	148.807	8.019	0.004%
27	0.000	-34.296	-15.380	0.000	34.296	15.378	0.004%
28	7.513	-34.242	-13.012	-7.513	34.242	13.011	0.004%
29	12.357	-34.188	-7.135	-12.355	34.188	7.133	0.006%
30	13.857	-34.242	0.000	-13.856	34.242	0.001	0.004%
31	12.307	-34.296	7.105	-12.306	34.296	-7.105	0.003%
32	7.472	-34.242	12.941	-7.470	34.242	-12.941	0.004%
33	0.000	-34.188	15.356	-0.000	34.188	-15.354	0.005%
34	-7.513	-34.242	13.012	7.511	34.242	-13.012	0.004%
35	-12.378	-34.296	7.147	12.377	34.296	-7.146	0.003%
36	-13.857	-34.242	0.000	13.856	34.242	0.001	0.004%
37	-12.286	-34.188	-7.093	12.284	34.188	7.092	0.006%
38	-7.472	-34.242	-12.941	7.472	34.242	12.940	0.004%

## Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	8	0.00000001	0.00006161
2	Yes	34	0.00012401	0.00013203
3	Yes	33	0.00011607	0.00011283
4	Yes	19	0.00014929	0.00008725
5	Yes	32	0.00012715	0.00011704
6	Yes	33	0.00012882	0.00013179
7	Yes	33	0.00011541	0.00011140
8	Yes	17	0.00011010	0.00010793
9	Yes	33	0.00011604	0.00011281
10	Yes	33	0.00012955	0.00013388
11	Yes	32	0.00012724	0.00011715
12	Yes	22	0.00014139	0.00007766
13	Yes	33	0.00011534	0.00011127
14	Yes	12	0.00015000	0.00008786
15	Yes	24	0.00015000	0.00007559
16	Yes	22	0.00015000	0.00008745
17	Yes	24	0.00000001	0.00002372
18	Yes	26	0.00014712	0.00002104
19	Yes	23	0.00015000	0.00006953
20	Yes	27	0.00013737	0.00001993
21	Yes	24	0.00000001	0.00002242
22	Yes	27	0.00013959	0.00002131
23	Yes	23	0.00015000	0.00007317
24	Yes	26	0.00014913	0.00002231
25	Yes	24	0.00000001	0.00002435
26	Yes	22	0.00015000	0.00008722
27	Yes	22	0.00012138	0.00004118
28	Yes	20	0.00000001	0.00004573
29	Yes	14	0.00014081	0.00006787
30	Yes	18	0.00000001	0.00004374
31	Yes	19	0.00000001	0.00003034
32	Yes	20	0.00000001	0.00004345
33	Yes	15	0.00000001	0.00005197
34	Yes	20	0.00000001	0.00004524
35	Yes	19	0.00000001	0.00003085
36	Yes	18	0.00000001	0.00004401
37	Yes	14	0.00014288	0.00006821

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38      Yes      20      0.00000001      0.00004441

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	300 - 280	6.742	33	0.099	0.483
T2	280 - 260	6.393	33	0.109	0.455
T3	260 - 240	5.860	33	0.149	0.361
T4	240 - 220	5.336	33	0.114	0.254
T5	220 - 200	4.941	33	0.108	0.157
T6	200 - 180	4.504	33	0.101	0.174
T7	180 - 160	4.226	27	0.074	0.274
T8	160 - 140	4.092	27	0.085	0.353
T9	140 - 120	3.823	27	0.096	0.410
T10	120 - 100	3.530	27	0.083	0.448
T11	100 - 80	3.194	27	0.099	0.468
T12	80 - 60	2.704	27	0.123	0.467
T13	60 - 40	2.196	27	0.121	0.451
T14	40 - 20	1.649	27	0.154	0.420
T15	20 - 5	0.903	27	0.198	0.372
T16	5 - 0	0.230	27	0.217	0.332

### Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
300.000	5' Lightning Rod	33	6.742	0.099	0.483	66053
295.000	Sector1(CaAa=14000 Sq.in)No Ice	33	6.666	0.098	0.480	66053
290.000	Guy	33	6.585	0.099	0.475	33026
280.000	Sector1(CaAa=10000 Sq.in)No Ice	33	6.393	0.109	0.455	18063
265.000	Sector1(CaAa=10000 Sq.in)No Ice	33	6.003	0.144	0.388	80198
250.000	Guy	33	5.582	0.136	0.307	31771
190.000	Guy	33	4.316	0.086	0.230	38325
130.000	Guy	27	3.676	0.089	0.431	77989
70.000	Guy	27	2.448	0.122	0.457	87435

### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	300 - 280	50.147	2	0.900	1.582
T2	280 - 260	47.065	2	0.933	1.495
T3	260 - 240	43.394	2	1.058	1.195
T4	240 - 220	39.785	2	0.925	0.851
T5	220 - 200	36.656	2	0.870	0.534
T6	200 - 180	33.495	2	0.800	0.442
T7	180 - 160	30.729	2	0.661	0.664

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T8	160 - 140	28.189	2	0.641	0.891
T9	140 - 120	25.362	2	0.678	1.046
T10	120 - 100	22.608	2	0.649	1.153
T11	100 - 80	19.798	2	0.731	1.213
T12	80 - 60	16.486	2	0.815	1.207
T13	60 - 40	13.086	2	0.822	1.163
T14	40 - 20	9.467	2	0.961	1.084
T15	20 - 5	5.043	2	1.136	0.949
T16	5 - 0	1.275	2	1.210	0.821

### Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
300.000	5' Lightning Rod	2	50.147	0.900	1.582	20997
295.000	Sector1(CaAa=14000 Sq.in)No Ice	2	49.413	0.898	1.573	20997
290.000	Guy	2	48.663	0.900	1.558	10499
280.000	Sector1(CaAa=10000 Sq.in)No Ice	2	47.065	0.933	1.495	5762
265.000	Sector1(CaAa=10000 Sq.in)No Ice	2	44.340	1.045	1.282	27528
250.000	Guy	2	41.532	1.008	1.021	9781
190.000	Guy	2	32.053	0.727	0.544	7793
130.000	Guy	2	23.967	0.660	1.104	17968
70.000	Guy	2	14.787	0.805	1.181	28648

### Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria	
T2	280	Leg	A325N	0.750	3	3.946	30.101	0.131	✓	1	Bolt Tension
T3	260	Leg	A325N	0.750	3	3.043	30.101	0.101	✓	1	Bolt Tension
T4	240	Leg	A325N	0.750	3	4.985	30.101	0.166	✓	1	Bolt Tension
T5	220	Leg	A325N	0.750	3	4.770	30.101	0.158	✓	1	Bolt Tension
T6	200	Leg	A325N	0.750	3	5.484	30.101	0.182	✓	1	Bolt Tension
T7	180	Leg	A325N	0.750	3	5.701	30.101	0.189	✓	1	Bolt Tension
T8	160	Leg	A325N	0.750	3	5.880	30.101	0.195	✓	1	Bolt Tension
T9	140	Leg	A325N	0.750	3	6.069	30.101	0.202	✓	1	Bolt Tension
T10	120	Leg	A325N	0.750	3	6.663	30.101	0.221	✓	1	Bolt Tension
T11	100	Leg	A325N	0.750	3	7.017	30.101	0.233	✓	1	Bolt Tension
T12	80	Leg	A325N	0.750	3	7.136	30.101	0.237	✓	1	Bolt Tension
T13	60	Leg	A325N	0.750	3	7.627	30.101	0.253	✓	1	Bolt Tension
T14	40	Leg	A325N	0.750	3	8.014	30.101	0.266	✓	1	Bolt Tension
T15	20	Leg	A325N	0.750	3	8.130	30.101	0.270	✓	1	Bolt Tension

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load Allowable	Allowable Ratio	Criteria
T16	5	Leg	A325N	0.750	3	8.033	30.101	0.267 ✓	1	Bolt Tension

### Guy Design Data

Section No.	Elevation ft	Size	Initial Tension K	Breaking Load K	Actual $T_u$ K	Allowable $\phi T_n$ K	Required S.F.	Actual S.F.
T1	290.000 (A) (861)	9/16 EModulus EHS	3.500	35.000	17.507	21.000	1.000	1.199 ✓
	290.000 (A) (862)	9/16 EModulus EHS	3.500	35.000	17.669	21.000	1.000	1.189 ✓
	290.000 (B) (857)	9/16 EModulus EHS	3.500	35.000	17.088	21.000	1.000	1.229 ✓
	290.000 (B) (858)	9/16 EModulus EHS	3.500	35.000	17.477	21.000	1.000	1.202 ✓
	290.000 (C) (850)	9/16 EModulus EHS	3.500	35.000	17.651	21.000	1.000	1.190 ✓
	290.000 (C) (851)	9/16 EModulus EHS	3.500	35.000	17.087	21.000	1.000	1.229 ✓
T3	250.000 (A) (846)	1/2 EModulus EHS	2.690	26.900	13.856	16.140	1.000	1.165 ✓
	250.000 (A) (847)	1/2 EModulus EHS	2.690	26.900	13.990	16.140	1.000	1.154 ✓
	250.000 (B) (842)	1/2 EModulus EHS	2.690	26.900	13.537	16.140	1.000	1.192 ✓
	250.000 (B) (843)	1/2 EModulus EHS	2.690	26.900	13.850	16.140	1.000	1.165 ✓
	250.000 (C) (835)	1/2 EModulus EHS	2.690	26.900	14.000	16.140	1.000	1.153 ✓
	250.000 (C) (836)	1/2 EModulus EHS	2.690	26.900	13.620	16.140	1.000	1.185 ✓
T6	190.000 (A) (834)	7/16 EModulus EHS	2.080	20.800	11.301	12.480	1.000	1.104 ✓
	190.000 (B) (833)	7/16 EModulus EHS	2.080	20.800	11.279	12.480	1.000	1.107 ✓
	190.000 (C) (829)	7/16 EModulus EHS	2.080	20.800	11.311	12.480	1.000	1.103 ✓
T9	130.000 (A) (828)	3/8 EModulus	1.540	15.400	8.334	9.240	1.000	1.109 ✓

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Section No.	Elevation ft	Size	Initial Tension K	Breaking Load K	Actual $T_u$ K	Allowable $\phi T_n$ K	Required S.F.	Actual S.F.
	130.000 (B) (827)	EHS 3/8 EModulus	1.540	15.400	8.342	9.240	1.000	1.108 ✓
	130.000 (C) (823)	EHS 3/8 EModulus	1.540	15.400	8.325	9.240	1.000	1.110 ✓
T12	70.000 (A) (822)	EHS 3/8 EModulus	1.540	15.400	7.385	9.240	1.000	1.251 ✓
	70.000 (B) (821)	EHS 3/8 EModulus	1.540	15.400	7.389	9.240	1.000	1.250 ✓
	70.000 (C) (817)	EHS 3/8 EModulus	1.540	15.400	7.368	9.240	1.000	1.254 ✓

### Compression Checks

### Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	$L_u$ ft	$Kl/r$	A $in^2$	$P_u$ K	$\phi P_n$ K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-33.029	78.769	0.419 <sup>1</sup> ✓
T2	280 - 260	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-36.269	78.769	0.460 <sup>1</sup> ✓
T3	260 - 240	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-52.055	78.769	0.661 <sup>1</sup> ✓
T4	240 - 220	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-44.035	78.769	0.559 <sup>1</sup> ✓
T5	220 - 200	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-48.104	78.769	0.611 <sup>1</sup> ✓
T6	200 - 180	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-57.474	78.769	0.730 <sup>1</sup> ✓
T7	180 - 160	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-52.569	78.769	0.667 <sup>1</sup> ✓
T8	160 - 140	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-54.403	78.769	0.691 <sup>1</sup> ✓
T9	140 - 120	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-59.563	78.769	0.756 <sup>1</sup> ✓
T10	120 - 100	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-62.758	78.769	0.797 <sup>1</sup> ✓
T11	100 - 80	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-64.042	78.769	0.813 <sup>1</sup> ✓
T12	80 - 60	1 3/4	20.000	2.404	65.9 K=1.00	2.405	-68.051	78.769	0.864 <sup>1</sup> ✓
T13	60 - 40	1 3/4	20.000	2.404	65.9	2.405	-71.689	78.769	0.910 <sup>1</sup> ✓

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Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T14	40 - 20	1 3/4	20.000	2.404	K=1.00 65.9	2.405	-72.998	78.769	0.927 <sup>1</sup> ✓
T15	20 - 5	1 3/4	15.000	2.372	K=1.00 65.0	2.405	-73.045	79.436	0.920 <sup>1</sup> ✓
T16	5 - 0	2 1/4	5.292	2.238	K=1.00 47.7	3.976	-76.492	151.458	0.505 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	1	3.844	3.657	122.9 K=0.70	0.785	-7.887	11.750	0.671 <sup>1</sup> ✓
T2	280 - 260	1	3.844	3.657	122.9 K=0.70	0.785	-10.420	11.750	0.887 <sup>1</sup> ✓
T3	260 - 240	1	3.844	3.657	122.9 K=0.70	0.785	-10.449	11.750	0.889 <sup>1</sup> ✓
T4	240 - 220	.75	3.844	3.657	163.8 K=0.70	0.442	-3.088	3.718	0.831 <sup>1</sup> ✓
T5	220 - 200	.75	3.844	3.657	163.8 K=0.70	0.442	-3.627	3.718	0.975 <sup>1</sup> ✓
T6	200 - 180	.75	3.844	3.657	163.8 K=0.70	0.442	-3.684	3.718	0.991 <sup>1</sup> ✓
T7	180 - 160	.75	3.844	3.657	163.8 K=0.70	0.442	-2.331	3.718	0.627 <sup>1</sup> ✓
T8	160 - 140	.75	3.844	3.657	163.8 K=0.70	0.442	-2.583	3.718	0.695 <sup>1</sup> ✓
T9	140 - 120	.75	3.844	3.657	163.8 K=0.70	0.442	-2.764	3.718	0.743 <sup>1</sup> ✓
T10	120 - 100	.75	3.844	3.657	163.8 K=0.70	0.442	-1.973	3.718	0.531 <sup>1</sup> ✓
T11	100 - 80	.75	3.844	3.657	163.8 K=0.70	0.442	-2.049	3.718	0.551 <sup>1</sup> ✓
T12	80 - 60	.75	3.844	3.657	163.8 K=0.70	0.442	-3.178	3.718	0.855 <sup>1</sup> ✓
T13	60 - 40	.75	3.844	3.657	163.8 K=0.70	0.442	-2.831	3.718	0.761 <sup>1</sup> ✓
T14	40 - 20	.75	3.844	3.657	163.8 K=0.70	0.442	-1.743	3.718	0.469 <sup>1</sup> ✓
T15	20 - 5	.75	3.824	3.638	163.0 K=0.70	0.442	-2.196	3.757	0.585 <sup>1</sup> ✓
T16	5 - 0	1	2.314	1.852	89.9 K=1.01	0.785	-9.731	19.578	0.497 <sup>1</sup> ✓

<sup>1</sup> P<sub>n</sub> / φP<sub>n</sub> controls

**Horizontal Design Data (Compression)**

Section No.	Elevation	Size	L	L <sub>n</sub>	K/r	A	P <sub>n</sub>	φP <sub>n</sub>	Ratio
T1	300 - 280	3/4	3.000	2.854	127.9	0.442	-2.750	0.451 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T2	280 - 260	3/4	3.000	2.854	127.9	0.442	-1.657	0.272 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T3	260 - 240	3/4	3.000	2.854	127.9	0.442	-1.033	0.169 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T4	240 - 220	3/4	3.000	2.854	127.9	0.442	-0.828	0.136 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T5	220 - 200	3/4	3.000	2.854	127.9	0.442	-0.911	0.149 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T6	200 - 180	3/4	3.000	2.854	127.9	0.442	-1.061	0.174 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T7	180 - 160	3/4	3.000	2.854	127.9	0.442	-0.977	0.160 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T8	160 - 140	3/4	3.000	2.854	127.9	0.442	-1.008	0.165 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T9	140 - 120	3/4	3.000	2.854	127.9	0.442	-1.107	0.181 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T10	120 - 100	3/4	3.000	2.854	127.9	0.442	-1.166	0.191 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T11	100 - 80	3/4	3.000	2.854	127.9	0.442	-1.186	0.194 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T12	80 - 60	3/4	3.000	2.854	127.9	0.442	-1.267	0.208 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T13	60 - 40	3/4	3.000	2.854	127.9	0.442	-1.332	0.218 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T14	40 - 20	3/4	3.000	2.854	127.9	0.442	-1.351	0.221 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T15	20 - 5	3/4	3.000	2.854	127.9	0.442	-1.338	0.219 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T16	5 - 0	3/4	1.500	1.313	89.0	0.442	-1.382	0.124 <sup>1</sup>	$\frac{\phi P_n}{P_n}$

**Top Girt Design Data (Compression)**

Section No.	Elevation	Size	L	L <sub>n</sub>	K/r	A	P <sub>n</sub>	φP <sub>n</sub>	Ratio
T1	300 - 280	3/4	3.000	2.854	127.9	0.442	-0.640	0.105 <sup>1</sup>	$\frac{\phi P_n}{P_n}$
T2	280 - 260	3/4	3.000	2.854	127.9	0.442	-0.820	0.134 <sup>1</sup>	$\frac{\phi P_n}{P_n}$

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	<p><b>Client</b></p> <p>APC Towers</p>	<p><b>Designed by</b></p> <p>aashwood</p>

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T3	260 - 240	3/4	3.000	2.854	127.9 K=0.70	0.442	-3.563	6.104	0.584 <sup>1</sup> ✓
T4	240 - 220	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.268	6.104	0.208 <sup>1</sup> ✓
T5	220 - 200	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.911	6.104	0.149 <sup>1</sup> ✓
T6	200 - 180	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.192	6.104	0.195 <sup>1</sup> ✓
T7	180 - 160	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.013	6.104	0.166 <sup>1</sup> ✓
T8	160 - 140	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.008	6.104	0.165 <sup>1</sup> ✓
T9	140 - 120	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.107	6.104	0.181 <sup>1</sup> ✓
T10	120 - 100	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.166	6.104	0.191 <sup>1</sup> ✓
T11	100 - 80	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.186	6.104	0.194 <sup>1</sup> ✓
T12	80 - 60	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.267	6.104	0.208 <sup>1</sup> ✓
T13	60 - 40	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.332	6.104	0.218 <sup>1</sup> ✓
T14	40 - 20	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.351	6.104	0.221 <sup>1</sup> ✓
T15	20 - 5	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.338	6.104	0.219 <sup>1</sup> ✓
T16	5 - 0	3/4	2.769	2.581	115.6 K=0.70	0.442	-1.382	7.463	0.185 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Bottom Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio P <sub>u</sub> / φP <sub>n</sub>
T1	300 - 280	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.568	6.104	0.257 <sup>1</sup> ✓
T2	280 - 260	3/4	3.000	2.854	127.9 K=0.70	0.442	-3.473	6.104	0.569 <sup>1</sup> ✓
T3	260 - 240	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.377	6.104	0.226 <sup>1</sup> ✓
T4	240 - 220	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.828	6.104	0.136 <sup>1</sup> ✓
T5	220 - 200	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.068	6.104	0.175 <sup>1</sup> ✓
T6	200 - 180	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.098	6.104	0.180 <sup>1</sup> ✓
T7	180 - 160	3/4	3.000	2.854	127.9 K=0.70	0.442	-0.977	6.104	0.160 <sup>1</sup> ✓

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 44 of 54
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	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T8	160 - 140	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.008	6.104	0.165 <sup>1</sup> ✓
T9	140 - 120	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.107	6.104	0.181 <sup>1</sup> ✓
T10	120 - 100	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.166	6.104	0.191 <sup>1</sup> ✓
T11	100 - 80	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.186	6.104	0.194 <sup>1</sup> ✓
T12	80 - 60	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.267	6.104	0.208 <sup>1</sup> ✓
T13	60 - 40	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.332	6.104	0.218 <sup>1</sup> ✓
T14	40 - 20	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.351	6.104	0.221 <sup>1</sup> ✓
T15	20 - 5	3/4	3.000	2.854	127.9 K=0.70	0.442	-1.338	6.104	0.219 <sup>1</sup> ✓
T16	5 - 0	3/4	0.231	0.044	3.1 K=1.10	0.442	-1.382	19.867	0.070 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Top Guy Pull-Off Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	4x5/8	3.000	2.854	151.9 K=0.80	2.500	-6.388	24.488	0.261 <sup>1</sup> ✓
T3	260 - 240	4x5/8	3.000	2.854	151.9 K=0.80	2.500	-5.847	24.488	0.239 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Torque-Arm Top Design Data

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280 (852)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-4.394	237.937	0.018
T1	300 - 280 (853)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-4.393	237.937	0.018
T1	300 - 280 (859)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-4.214	237.937	0.018
T1	300 - 280 (860)	C12x20.7	3.000	2.927	44.0 K=1.00	6.090	-4.210	237.937	0.018

Section No.	Elevation	Size	L	L <sub>n</sub>	Kl/r	A	P <sub>n</sub>	K	φP <sub>n</sub>	Ratio
T1	300 - 280 (863)	C12x20.7	3.000	2.927	44.0	6.090	-4.325	237.937	0.18	φP <sub>n</sub>
T1	300 - 280 (864)	C12x20.7	3.000	2.927	44.0	6.090	-4.336	237.937	0.18	φP <sub>n</sub>
T3	260 - 240 (837)	C12x20.7	3.000	2.927	44.0	6.090	-3.913	237.937	0.16	φP <sub>n</sub>
T3	260 - 240 (838)	C12x20.7	3.000	2.927	44.0	6.090	-3.921	237.937	0.16	φP <sub>n</sub>
T3	260 - 240 (844)	C12x20.7	3.000	2.927	44.0	6.090	-3.634	237.937	0.15	φP <sub>n</sub>
T3	260 - 240 (845)	C12x20.7	3.000	2.927	44.0	6.090	-3.625	237.937	0.15	φP <sub>n</sub>
T3	260 - 240 (848)	C12x20.7	3.000	2.927	44.0	6.090	-3.853	237.937	0.16	φP <sub>n</sub>
T3	260 - 240 (849)	C12x20.7	3.000	2.927	44.0	6.090	-3.858	237.937	0.16	φP <sub>n</sub>

### Torque-Arm Top Bending Design Data

Section No.	Elevation	Size	M <sub>xx</sub>	φM <sub>xx</sub>	Ratio	M <sub>yy</sub>	φM <sub>yy</sub>	Ratio	kip-ft	kip-ft	φM <sub>xy</sub>	Ratio
T1	300 - 280 (852)	C12x20.7	-45.761	94.709	0.483	0.000	9.731	0.000	9.731	0.000	0.000	0.000
T1	300 - 280 (853)	C12x20.7	-45.763	94.709	0.483	-0.000	9.731	0.000	9.731	0.000	0.000	0.000
T1	300 - 280 (859)	C12x20.7	-44.663	94.709	0.472	-0.000	9.731	0.000	9.731	0.000	0.000	0.000
T1	300 - 280 (860)	C12x20.7	-44.608	94.709	0.471	0.000	9.731	0.000	9.731	0.000	0.000	0.000
T1	300 - 280 (863)	C12x20.7	-45.246	94.709	0.478	0.000	9.731	0.000	9.731	0.000	0.000	0.000
T1	300 - 280 (864)	C12x20.7	-45.402	94.709	0.479	-0.000	9.731	0.000	9.731	0.000	0.000	0.000
T3	260 - 240 (837)	C12x20.7	-35.131	94.709	0.371	0.000	9.731	0.000	9.731	0.000	0.000	0.000
T3	260 - 240 (838)	C12x20.7	-35.189	94.709	0.372	-0.000	9.731	0.000	9.731	0.000	0.000	0.000
T3	260 - 240 (844)	C12x20.7	-33.452	94.709	0.353	-0.000	9.731	0.000	9.731	0.000	0.000	0.000
T3	260 - 240 (845)	C12x20.7	-33.386	94.709	0.353	0.000	9.731	0.000	9.731	0.000	0.000	0.000
T3	260 - 240 (848)	C12x20.7	-34.744	94.709	0.367	0.000	9.731	0.000	9.731	0.000	0.000	0.000
T3	260 - 240 (849)	C12x20.7	-34.815	94.709	0.368	-0.000	9.731	0.000	9.731	0.000	0.000	0.000

### Torque-Arm Top Interaction Design Data

Section No.	Elevation	Size	Ratio	P <sub>n</sub>	φP <sub>n</sub>	Ratio	M <sub>xx</sub>	φM <sub>xx</sub>	Ratio	M <sub>yy</sub>	φM <sub>yy</sub>	Ratio	Allow. Stress	Comb. Ratio	Stress Ratio	Criteria
T1	300 - 280 (852)	C12x20.7	0.018	0.483	0.000	0.492	0.000	0.000	0.492	0.000	0.492	1.000	1.000	0.492	1.000	✓
T1	300 - 280 (853)	C12x20.7	0.018	0.483	0.000	0.492	0.000	0.000	0.492	0.000	0.492	1.000	1.000	0.492	1.000	✓
T1	300 - 280 (859)	C12x20.7	0.018	0.472	0.000	0.480	0.000	0.000	0.480	0.000	0.480	1.000	1.000	0.480	1.000	✓
T1	300 - 280 (860)	C12x20.7	0.018	0.471	0.000	0.480	0.000	0.000	0.480	0.000	0.480	1.000	1.000	0.480	1.000	✓
T1	300 - 280 (863)	C12x20.7	0.018	0.478	0.000	0.487	0.000	0.000	0.487	0.000	0.487	1.000	1.000	0.487	1.000	✓
T1	300 - 280 (864)	C12x20.7	0.018	0.478	0.000	0.487	0.000	0.000	0.487	0.000	0.487	1.000	1.000	0.487	1.000	✓

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 46 of 54
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	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Size	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{nx}}$	Ratio $\frac{M_{uy}}{\phi M_{ny}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
T1	300 - 280 (864)	C12x20.7	0.018	0.479	0.000	0.488	1.000	✓
T3	260 - 240 (837)	C12x20.7	0.016	0.371	0.000	0.379	1.000	✓
T3	260 - 240 (838)	C12x20.7	0.016	0.372	0.000	0.380	1.000	✓
T3	260 - 240 (844)	C12x20.7	0.015	0.353	0.000	0.361	1.000	✓
T3	260 - 240 (845)	C12x20.7	0.015	0.353	0.000	0.360	1.000	✓
T3	260 - 240 (848)	C12x20.7	0.016	0.367	0.000	0.375	1.000	✓
T3	260 - 240 (849)	C12x20.7	0.016	0.368	0.000	0.376	1.000	✓

### Tension Checks

### Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	$\phi P_n$ K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	1 3/4	20.000	2.404	65.9	2.405	10.091	108.238	0.093 <sup>1</sup>
T3	260 - 240	1 3/4	20.000	2.404	65.9	2.405	8.639	108.238	0.080 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> /  $\phi P_n$  controls

### Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	$\phi P_n$ K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	1	3.844	3.657	175.6	0.785	7.877	35.343	0.223 <sup>1</sup>
T2	280 - 260	1	3.844	3.657	175.6	0.785	10.126	35.343	0.286 <sup>1</sup>
T3	260 - 240	1	3.844	3.657	175.6	0.785	10.247	35.343	0.290 <sup>1</sup>
T4	240 - 220	.75	3.844	3.657	234.1	0.442	2.763	19.880	0.139 <sup>1</sup>
T5	220 - 200	.75	3.844	3.657	234.1	0.442	3.128	19.880	0.157 <sup>1</sup>
T6	200 - 180	.75	3.844	3.657	234.1	0.442	3.394	19.880	0.171 <sup>1</sup>

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	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T7	180 - 160	.75	3.844	3.657	234.1	0.442	1.975	19.880	0.099 <sup>1</sup> ✓
T8	160 - 140	.75	3.844	3.657	234.1	0.442	2.014	19.880	0.101 <sup>1</sup> ✓
T9	140 - 120	.75	3.844	3.657	234.1	0.442	2.299	19.880	0.116 <sup>1</sup> ✓
T10	120 - 100	.75	3.844	3.657	234.1	0.442	1.624	19.880	0.082 <sup>1</sup> ✓
T11	100 - 80	.75	3.844	3.657	234.1	0.442	1.464	19.880	0.074 <sup>1</sup> ✓
T12	80 - 60	.75	3.844	3.657	234.1	0.442	2.497	19.880	0.126 <sup>1</sup> ✓
T13	60 - 40	.75	3.844	3.657	234.1	0.442	2.530	19.880	0.127 <sup>1</sup> ✓
T14	40 - 20	.75	3.844	3.657	234.1	0.442	1.070	19.880	0.054 <sup>1</sup> ✓
T15	20 - 5	.75	3.824	3.638	232.8	0.442	1.756	19.880	0.088 <sup>1</sup> ✓
T16	5 - 0	1	3.027	2.565	123.1	0.785	1.186	35.343	0.034 <sup>1</sup> ✓

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	3/4	3.000	2.854	182.7	0.442	2.725	19.880	0.137 <sup>1</sup> ✓
T2	280 - 260	3/4	3.000	2.854	182.7	0.442	1.870	19.880	0.094 <sup>1</sup> ✓
T3	260 - 240	3/4	3.000	2.854	182.7	0.442	1.076	19.880	0.054 <sup>1</sup> ✓
T4	240 - 220	3/4	3.000	2.854	182.7	0.442	0.828	19.880	0.042 <sup>1</sup> ✓
T5	220 - 200	3/4	3.000	2.854	182.7	0.442	0.911	19.880	0.046 <sup>1</sup> ✓
T6	200 - 180	3/4	3.000	2.854	182.7	0.442	1.061	19.880	0.053 <sup>1</sup> ✓
T7	180 - 160	3/4	3.000	2.854	182.7	0.442	0.977	19.880	0.049 <sup>1</sup> ✓
T8	160 - 140	3/4	3.000	2.854	182.7	0.442	1.008	19.880	0.051 <sup>1</sup> ✓
T9	140 - 120	3/4	3.000	2.854	182.7	0.442	1.107	19.880	0.056 <sup>1</sup> ✓
T10	120 - 100	3/4	3.000	2.854	182.7	0.442	1.166	19.880	0.059 <sup>1</sup> ✓

<p><b>tnxTower</b></p> <p><b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p><b>Job</b></p> <p>ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)</p>	<p><b>Page</b></p> <p>48 of 54</p>
	<p><b>Project</b></p> <p>300' 36G/37.36302222, -87.93053056</p>	<p><b>Date</b></p> <p>15:55:57 03/06/26</p>
	<p><b>Client</b></p> <p>APC Towers</p>	<p><b>Designed by</b></p> <p>aashwood</p>

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T11	100 - 80	3/4	3.000	2.854	182.7	0.442	1.186	19.880	0.060 <sup>1</sup>
T12	80 - 60	3/4	3.000	2.854	182.7	0.442	1.267	19.880	0.064 <sup>1</sup>
T13	60 - 40	3/4	3.000	2.854	182.7	0.442	1.332	19.880	0.067 <sup>1</sup>
T14	40 - 20	3/4	3.000	2.854	182.7	0.442	1.351	19.880	0.068 <sup>1</sup>
T15	20 - 5	3/4	3.000	2.854	182.7	0.442	1.338	19.880	0.067 <sup>1</sup>
T16	5 - 0	3/4	1.500	1.313	84.0	0.442	1.382	19.880	0.069 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	3/4	3.000	2.854	182.7	0.442	0.640	19.880	0.032 <sup>1</sup>
T2	280 - 260	3/4	3.000	2.854	182.7	0.442	0.830	19.880	0.042 <sup>1</sup>
T3	260 - 240	3/4	3.000	2.854	182.7	0.442	3.602	19.880	0.181 <sup>1</sup>
T4	240 - 220	3/4	3.000	2.854	182.7	0.442	1.426	19.880	0.072 <sup>1</sup>
T5	220 - 200	3/4	3.000	2.854	182.7	0.442	0.911	19.880	0.046 <sup>1</sup>
T6	200 - 180	3/4	3.000	2.854	182.7	0.442	1.281	19.880	0.064 <sup>1</sup>
T7	180 - 160	3/4	3.000	2.854	182.7	0.442	1.175	19.880	0.059 <sup>1</sup>
T8	160 - 140	3/4	3.000	2.854	182.7	0.442	1.008	19.880	0.051 <sup>1</sup>
T9	140 - 120	3/4	3.000	2.854	182.7	0.442	1.107	19.880	0.056 <sup>1</sup>
T10	120 - 100	3/4	3.000	2.854	182.7	0.442	1.166	19.880	0.059 <sup>1</sup>
T11	100 - 80	3/4	3.000	2.854	182.7	0.442	1.186	19.880	0.060 <sup>1</sup>
T12	80 - 60	3/4	3.000	2.854	182.7	0.442	1.267	19.880	0.064 <sup>1</sup>
T13	60 - 40	3/4	3.000	2.854	182.7	0.442	1.332	19.880	0.067 <sup>1</sup>
T14	40 - 20	3/4	3.000	2.854	182.7	0.442	1.351	19.880	0.068 <sup>1</sup>
T15	20 - 5	3/4	3.000	2.854	182.7	0.442	1.338	19.880	0.067 <sup>1</sup>

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	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T16	5 - 0	3/4	2.769	2.581	165.2	0.442	8.274	19.880	0.416 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Bottom Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	3/4	3.000	2.854	182.7	0.442	1.715	19.880	0.086 <sup>1</sup>
T2	280 - 260	3/4	3.000	2.854	182.7	0.442	3.651	19.880	0.184 <sup>1</sup>
T3	260 - 240	3/4	3.000	2.854	182.7	0.442	1.517	19.880	0.076 <sup>1</sup>
T4	240 - 220	3/4	3.000	2.854	182.7	0.442	0.828	19.880	0.042 <sup>1</sup>
T5	220 - 200	3/4	3.000	2.854	182.7	0.442	1.289	19.880	0.065 <sup>1</sup>
T6	200 - 180	3/4	3.000	2.854	182.7	0.442	1.274	19.880	0.064 <sup>1</sup>
T7	180 - 160	3/4	3.000	2.854	182.7	0.442	0.977	19.880	0.049 <sup>1</sup>
T8	160 - 140	3/4	3.000	2.854	182.7	0.442	1.008	19.880	0.051 <sup>1</sup>
T9	140 - 120	3/4	3.000	2.854	182.7	0.442	1.107	19.880	0.056 <sup>1</sup>
T10	120 - 100	3/4	3.000	2.854	182.7	0.442	1.166	19.880	0.059 <sup>1</sup>
T11	100 - 80	3/4	3.000	2.854	182.7	0.442	1.186	19.880	0.060 <sup>1</sup>
T12	80 - 60	3/4	3.000	2.854	182.7	0.442	1.267	19.880	0.064 <sup>1</sup>
T13	60 - 40	3/4	3.000	2.854	182.7	0.442	1.332	19.880	0.067 <sup>1</sup>
T14	40 - 20	3/4	3.000	2.854	182.7	0.442	1.351	19.880	0.068 <sup>1</sup>
T15	20 - 5	3/4	3.000	2.854	182.7	0.442	7.208	19.880	0.363 <sup>1</sup>
T16	5 - 0	3/4	0.231	0.044	2.8	0.442	2.592	19.880	0.130 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 50 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
	<b>Client</b> APC Towers	<b>Designed by</b> aashwood

### Top Guy Pull-Off Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280	4x5/8	3.000	2.854	189.8	2.500	6.413	112.500	0.057 <sup>1</sup>
T3	260 - 240	4x5/8	3.000	2.854	189.8	2.500	6.087	112.500	0.054 <sup>1</sup>
T6	200 - 180	4x5/8	3.000	2.854	189.8	2.500	3.802	112.500	0.034 <sup>1</sup>
T9	140 - 120	4x5/8	3.000	2.854	189.8	2.500	3.475	112.500	0.031 <sup>1</sup>
T12	80 - 60	4x5/8	3.000	2.854	189.8	2.500	3.632	112.500	0.032 <sup>1</sup>

<sup>1</sup> P<sub>u</sub> / φP<sub>n</sub> controls

### Torque-Arm Top Design Data

Section No.	Elevation ft	Size	L ft	L <sub>u</sub> ft	Kl/r	A in <sup>2</sup>	P <sub>u</sub> K	φP <sub>n</sub> K	Ratio $\frac{P_u}{\phi P_n}$
T1	300 - 280 (852)	C12x20.7	3.000	2.927	44.0	4.568	0.538	222.666	0.002
T1	300 - 280 (853)	C12x20.7	3.000	2.927	44.0	4.568	0.690	222.666	0.003
T1	300 - 280 (859)	C12x20.7	3.000	2.927	44.0	4.568	0.531	222.666	0.002
T1	300 - 280 (860)	C12x20.7	3.000	2.927	44.0	4.568	0.561	222.666	0.003
T1	300 - 280 (863)	C12x20.7	3.000	2.927	44.0	4.568	0.700	222.666	0.003
T1	300 - 280 (864)	C12x20.7	3.000	2.927	44.0	4.568	0.549	222.666	0.002
T3	260 - 240 (837)	C12x20.7	3.000	2.927	44.0	4.568	0.278	222.666	0.001
T3	260 - 240 (838)	C12x20.7	3.000	2.927	44.0	4.568	0.423	222.666	0.002
T3	260 - 240 (844)	C12x20.7	3.000	2.927	44.0	4.568	0.267	222.666	0.001
T3	260 - 240 (845)	C12x20.7	3.000	2.927	44.0	4.568	0.313	222.666	0.001
T3	260 - 240 (848)	C12x20.7	3.000	2.927	44.0	4.568	0.433	222.666	0.002
T3	260 - 240 (849)	C12x20.7	3.000	2.927	44.0	4.568	0.302	222.666	0.001

### Torque-Arm Top Bending Design Data

Section No.	Elevation ft	Size	M <sub>ux</sub> kip-ft	φM <sub>ux</sub> kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	M <sub>uy</sub> kip-ft	φM <sub>uy</sub> kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
T1	300 - 280 (852)	C12x20.7	-45.572	94.709	0.481	0.000	9.731	0.000
T1	300 - 280 (853)	C12x20.7	-44.931	94.709	0.474	-0.000	9.731	0.000
T1	300 - 280 (859)	C12x20.7	-45.578	94.709	0.481	-0.000	9.731	0.000
T1	300 - 280 (860)	C12x20.7	-45.931	94.709	0.485	0.000	9.731	0.000
T1	300 - 280 (863)	C12x20.7	-44.832	94.709	0.473	0.000	9.731	0.000
T1	300 - 280 (864)	C12x20.7	-46.092	94.709	0.487	-0.000	9.731	0.000
T3	260 - 240 (837)	C12x20.7	-35.027	94.709	0.370	0.000	9.731	0.000
T3	260 - 240 (838)	C12x20.7	-33.699	94.709	0.356	-0.000	9.731	0.000
T3	260 - 240 (844)	C12x20.7	-35.077	94.709	0.370	-0.000	9.731	0.000
T3	260 - 240 (845)	C12x20.7	-35.393	94.709	0.374	0.000	9.731	0.000
T3	260 - 240 (848)	C12x20.7	-33.654	94.709	0.355	0.000	9.731	0.000

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 51 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
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Section No.	Elevation ft	Size	$M_{ux}$ kip-ft	$\phi M_{ux}$ kip-ft	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	$M_{uy}$ kip-ft	$\phi M_{uy}$ kip-ft	Ratio $\frac{M_{uy}}{\phi M_{uy}}$
T3	260 - 240 (849)	C12x20.7	-35.456	94.709	0.374	-0.000	9.731	0.000

### Torque-Arm Top Interaction Design Data

Section No.	Elevation ft	Size	Ratio $\frac{P_u}{\phi P_n}$	Ratio $\frac{M_{ux}}{\phi M_{ux}}$	Ratio $\frac{M_{uy}}{\phi M_{uy}}$	Comb. Stress Ratio	Allow. Stress Ratio	Criteria
T1	300 - 280 (852)	C12x20.7	0.002	0.481	0.000	0.482	1.000	✓
T1	300 - 280 (853)	C12x20.7	0.003	0.474	0.000	0.476	1.000	✓
T1	300 - 280 (859)	C12x20.7	0.002	0.481	0.000	0.482	1.000	✓
T1	300 - 280 (860)	C12x20.7	0.003	0.485	0.000	0.486	1.000	✓
T1	300 - 280 (863)	C12x20.7	0.003	0.473	0.000	0.475	1.000	✓
T1	300 - 280 (864)	C12x20.7	0.002	0.487	0.000	0.488	1.000	✓
T3	260 - 240 (837)	C12x20.7	0.001	0.370	0.000	0.370	1.000	✓
T3	260 - 240 (838)	C12x20.7	0.002	0.356	0.000	0.357	1.000	✓
T3	260 - 240 (844)	C12x20.7	0.001	0.370	0.000	0.371	1.000	✓
T3	260 - 240 (845)	C12x20.7	0.001	0.374	0.000	0.374	1.000	✓
T3	260 - 240 (848)	C12x20.7	0.002	0.355	0.000	0.356	1.000	✓
T3	260 - 240 (849)	C12x20.7	0.001	0.374	0.000	0.375	1.000	✓

### Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail
T1	300 - 280	Leg	1 3/4	3	-33.029	78.769	41.9	Pass
T2	280 - 260	Leg	1 3/4	57	-36.269	78.769	46.0	Pass
T3	260 - 240	Leg	1 3/4	111	-52.055	78.769	66.1	Pass
T4	240 - 220	Leg	1 3/4	163	-44.035	78.769	55.9	Pass
T5	220 - 200	Leg	1 3/4	217	-48.104	78.769	61.1	Pass
T6	200 - 180	Leg	1 3/4	271	-57.474	78.769	73.0	Pass
T7	180 - 160	Leg	1 3/4	326	-52.569	78.769	66.7	Pass
T8	160 - 140	Leg	1 3/4	379	-54.403	78.769	69.1	Pass
T9	140 - 120	Leg	1 3/4	434	-59.563	78.769	75.6	Pass
T10	120 - 100	Leg	1 3/4	489	-62.758	78.769	79.7	Pass
T11	100 - 80	Leg	1 3/4	543	-64.042	78.769	81.3	Pass
T12	80 - 60	Leg	1 3/4	597	-68.051	78.769	86.4	Pass
T13	60 - 40	Leg	1 3/4	651	-71.689	78.769	91.0	Pass

<b>Job</b>	ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b>	52 of 54
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<b>Client</b>	APC Towers	<b>Designed by</b>	aashwood

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail
T14	40 - 20	Leg	1 3/4	705	-72.998	78.769	92.7	Pass
T15	20 - 5	Leg	1 3/4	759	-73.045	79.436	92.0	Pass
T16	5 - 0	Leg	2 1/4	801	-76.492	151.458	50.5	Pass
T1	300 - 280	Diagonal	1	40	-7.887	11.750	67.1	Pass
T2	280 - 260	Diagonal	1	65	-10.420	11.750	88.7	Pass
T3	260 - 240	Diagonal	1	161	-10.449	11.750	88.9	Pass
T4	240 - 220	Diagonal	.75	214	-3.088	3.718	83.1	Pass
T5	220 - 200	Diagonal	.75	227	-3.627	3.718	97.5	Pass
T6	200 - 180	Diagonal	.75	323	-3.684	3.718	99.1	Pass
T7	180 - 160	Diagonal	.75	376	-2.331	3.718	62.7	Pass
T8	160 - 140	Diagonal	.75	389	-2.583	3.718	69.5	Pass
T9	140 - 120	Diagonal	.75	467	-2.764	3.718	74.3	Pass
T10	120 - 100	Diagonal	.75	539	-1.973	3.718	53.1	Pass
T11	100 - 80	Diagonal	.75	552	-2.049	3.718	55.1	Pass
T12	80 - 60	Diagonal	.75	605	-3.178	3.718	85.5	Pass
T13	60 - 40	Diagonal	.75	701	-2.831	3.718	76.1	Pass
T14	40 - 20	Diagonal	.75	712	-1.743	3.718	46.9	Pass
T15	20 - 5	Diagonal	.75	766	-2.196	3.757	58.5	Pass
T16	5 - 0	Diagonal	1	810	-9.731	19.578	49.7	Pass
T1	300 - 280	Horizontal	3/4	45	-2.750	6.104	45.1	Pass
T2	280 - 260	Horizontal	3/4	75	-1.657	6.104	27.2	Pass
T3	260 - 240	Horizontal	3/4	140	-1.033	6.104	16.9	Pass
T4	240 - 220	Horizontal	3/4	177	-0.828	6.104	13.6	Pass
T5	220 - 200	Horizontal	3/4	229	-0.911	6.104	14.9	Pass
T6	200 - 180	Horizontal	3/4	285	-1.061	6.104	17.4	Pass
T7	180 - 160	Horizontal	3/4	338	-0.977	6.104	16.0	Pass
T8	160 - 140	Horizontal	3/4	391	-1.008	6.104	16.5	Pass
T9	140 - 120	Horizontal	3/4	445	-1.107	6.104	18.1	Pass
T10	120 - 100	Horizontal	3/4	506	-1.166	6.104	19.1	Pass
T11	100 - 80	Horizontal	3/4	554	-1.186	6.104	19.4	Pass
T12	80 - 60	Horizontal	3/4	608	-1.267	6.104	20.8	Pass
T13	60 - 40	Horizontal	3/4	662	-1.332	6.104	21.8	Pass
T14	40 - 20	Horizontal	3/4	722	-1.351	6.104	22.1	Pass
T15	20 - 5	Horizontal	3/4	771	-1.338	6.104	21.9	Pass
T16	5 - 0	Horizontal	3/4	813	-1.382	11.134	12.4	Pass
T1	300 - 280	Top Girt	3/4	4	-0.640	6.104	10.5	Pass
T2	280 - 260	Top Girt	3/4	59	-0.820	6.104	13.4	Pass
T3	260 - 240	Top Girt	3/4	113	-3.563	6.104	58.4	Pass
T4	240 - 220	Top Girt	3/4	166	-1.268	6.104	20.8	Pass
T5	220 - 200	Top Girt	3/4	220	-0.911	6.104	14.9	Pass
T6	200 - 180	Top Girt	3/4	275	-1.192	6.104	19.5	Pass
T7	180 - 160	Top Girt	3/4	328	-1.013	6.104	16.6	Pass
T8	160 - 140	Top Girt	3/4	382	-1.008	6.104	16.5	Pass
T9	140 - 120	Top Girt	3/4	436	-1.107	6.104	18.1	Pass
T10	120 - 100	Top Girt	3/4	491	-1.166	6.104	19.1	Pass
T11	100 - 80	Top Girt	3/4	545	-1.186	6.104	19.4	Pass
T12	80 - 60	Top Girt	3/4	599	-1.267	6.104	20.8	Pass
T13	60 - 40	Top Girt	3/4	653	-1.332	6.104	21.8	Pass
T14	40 - 20	Top Girt	3/4	707	-1.351	6.104	22.1	Pass
T15	20 - 5	Top Girt	3/4	762	-1.338	6.104	21.9	Pass
T16	5 - 0	Top Girt	3/4	802	8.274	19.880	41.6	Pass
T1	300 - 280	Bottom Girt	3/4	8	-1.568	6.104	25.7	Pass
T2	280 - 260	Bottom Girt	3/4	62	-3.473	6.104	56.9	Pass
T3	260 - 240	Bottom Girt	3/4	115	-1.377	6.104	22.6	Pass
T4	240 - 220	Bottom Girt	3/4	171	-0.828	6.104	13.6	Pass
T5	220 - 200	Bottom Girt	3/4	224	-1.068	6.104	17.5	Pass
T6	200 - 180	Bottom Girt	3/4	277	-1.098	6.104	18.0	Pass
T7	180 - 160	Bottom Girt	3/4	332	-0.977	6.104	16.0	Pass
T8	160 - 140	Bottom Girt	3/4	385	-1.008	6.104	16.5	Pass
T9	140 - 120	Bottom Girt	3/4	439	-1.107	6.104	18.1	Pass
T10	120 - 100	Bottom Girt	3/4	494	-1.166	6.104	19.1	Pass

<p><b>tnxTower</b></p> <p><b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	<p><b>Job</b></p> <p>ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)</p>	<p><b>Page</b></p> <p>53 of 54</p>
	<p><b>Project</b></p> <p>300' 36G/37.36302222, -87.93053056</p>	<p><b>Date</b></p> <p>15:55:57 03/06/26</p>
	<p><b>Client</b></p> <p>APC Towers</p>	<p><b>Designed by</b></p> <p>aashwood</p>

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	$\phi P_{allow}$ K	% Capacity	Pass Fail
T11	100 - 80	Bottom Girt	3/4	548	-1.186	6.104	19.4	Pass
T12	80 - 60	Bottom Girt	3/4	602	-1.267	6.104	20.8	Pass
T13	60 - 40	Bottom Girt	3/4	656	-1.332	6.104	21.8	Pass
T14	40 - 20	Bottom Girt	3/4	710	-1.351	6.104	22.1	Pass
T15	20 - 5	Bottom Girt	3/4	763	7.208	19.880	36.3	Pass
T16	5 - 0	Bottom Girt	3/4	807	2.592	19.880	13.0	Pass
T1	300 - 280	Guy A@290	9/16 EModulus	862	17.669	21.000	84.1	Pass
T3	260 - 240	Guy A@250	1/2 EModulus	847	13.990	16.140	86.7	Pass
T6	200 - 180	Guy A@190	7/16 EModulus	834	11.301	12.480	90.6	Pass
T9	140 - 120	Guy A@130	3/8 EModulus	828	8.334	9.240	90.2	Pass
T12	80 - 60	Guy A@70	3/8 EModulus	822	7.385	9.240	79.9	Pass
T1	300 - 280	Guy B@290	9/16 EModulus	858	17.477	21.000	83.2	Pass
T3	260 - 240	Guy B@250	1/2 EModulus	843	13.850	16.140	85.8	Pass
T6	200 - 180	Guy B@190	7/16 EModulus	833	11.279	12.480	90.4	Pass
T9	140 - 120	Guy B@130	3/8 EModulus	827	8.342	9.240	90.3	Pass
T12	80 - 60	Guy B@70	3/8 EModulus	821	7.389	9.240	80.0	Pass
T1	300 - 280	Guy C@290	9/16 EModulus	850	17.651	21.000	84.1	Pass
T3	260 - 240	Guy C@250	1/2 EModulus	835	14.000	16.140	86.7	Pass
T6	200 - 180	Guy C@190	7/16 EModulus	829	11.311	12.480	90.6	Pass
T9	140 - 120	Guy C@130	3/8 EModulus	823	8.325	9.240	90.1	Pass
T12	80 - 60	Guy C@70	3/8 EModulus	817	7.368	9.240	79.7	Pass
T1	300 - 280	Top Guy	4x5/8	855	-6.388	24.488	26.1	Pass
		Pull-Off@290						
T3	260 - 240	Top Guy	4x5/8	840	-5.847	24.488	23.9	Pass
		Pull-Off@250						
T6	200 - 180	Top Guy	4x5/8	832	3.802	112.500	3.4	Pass
		Pull-Off@190						
T9	140 - 120	Top Guy	4x5/8	826	3.475	112.500	3.1	Pass
		Pull-Off@130						
T12	80 - 60	Top Guy	4x5/8	820	3.632	112.500	3.2	Pass
		Pull-Off@70						
T1	300 - 280	Torque Arm	C12x20.7	853	-4.393	237.937	49.2	Pass
		Top@290						
T3	260 - 240	Torque Arm	C12x20.7	838	-3.921	237.937	38.0	Pass
		Top@250						
							Summary	
						Leg (T14)	92.7	Pass
						Diagonal (T6)	99.1	Pass
						Horizontal (T1)	45.1	Pass
						Top Girt (T3)	58.4	Pass
						Bottom Girt (T2)	56.9	Pass
						Guy A (T6)	90.6	Pass
						Guy B (T6)	90.4	Pass
						Guy C (T6)	90.6	Pass
						Top Guy	26.1	Pass
						Pull-Off (T1)		
						Torque Arm Top (T1)	49.2	Pass
						Bolt Checks	27.0	Pass
						<b>RATING =</b>	<b>99.1</b>	<b>Pass</b>

<b>tnxTower</b>  <b>B+T Engineering</b> 1717 S Boulder Ave, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	<b>Job</b> ATS#: C268 - EV Gum Creek Rd (Site# KY-1822)	<b>Page</b> 54 of 54
	<b>Project</b> 300' 36G/37.36302222, -87.93053056	<b>Date</b> 15:55:57 03/06/26
Program Version: 8.0K74129 Rd_C268/Engineering/tnxTower/26-001405 File: S:\Projects/Arcosa Telecom Structures/104398_EV Gum Creek 0126-051rv1_30036G_EC Gum Creek.dwg	<b>Client</b> APQ Towers	<b>Designed by</b> aashwood



1717 S BOULDER AVE #300, TULSA, OK 74119  
(918) 587-4630



8601 SIX FORKS RD., STE. 250, RALEIGH, NC

REV	DATE	DESCRIPTION
0	03/12/26	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2026



IT IS A VIOLATION OF LAW FOR ANY PERSON UNLESS THEY ARE ACTING UNDER THE DIRECTIONS OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

PROJECT INFORMATION:

PROJECT NO: 26-001566  
SITE NAME: EV GUM CREEK  
SITE NO: KY-1822  
CLIENT NAME: APC TOWERS IV, LLC

DRAWN BY: RANDALL ASHWORTH, E.I.  
CHECKED BY: JL

SHEET TITLE:

PIER AND PAD FOUNDATION

SHEET NUMBER:

GT-PPF

REVISION:

0

- NOTES:**
- REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH 3" MINIMUM CLEAR COVER.
  - REINFORCEMENT STEEL SHALL BE DETAILED, FABRICATED, BENT, AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND THE ACI 315 (LATEST EDITION).
  - THE CONTRACTOR SHALL THOROUGHLY REVIEW THE GEOTECH REPORT FOR THIS PROJECT AND FOLLOW THE RECOMMENDATIONS IN THAT REPORT WHEN CONSTRUCTING THE FOUNDATION.  
GEOTECHNICAL PROPERTIES BY: ENVIRONMENTAL CORPORATON OF AMERICA  
PROJECT NUMBER: 25-004489  
DATE: JANUARY 12, 2026
  - THIS FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION REFERENCED ABOVE. IF ANYTHING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR TO CONSTRUCTION.
  - CONCRETE VOLUME IN CUBIC YARDS: 2.55
  - ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
  - CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14.
  - ALL CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 318-14. A MINIMUM OF (2) 6"x12" OR (3) 4"x8" CONCRETE CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6"x12" OR (6) 4"x8" CYLINDERS PER BATCH REQUIRED.
  - SUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C143. THE ALLOWABLE CONCRETE SLUMP SHALL BE 4 INCHES (±1") UNLESS ADMIXTURES ARE USED. ADMIXTURE SHALL BE IN ACCORDANCE WITH ASTM C494 STANDARD TYPES A, B, C, D OR E. THE ENGINEER SHALL PRE-APPROVE SUPER PLASTICIZER USE. DO NOT USE CHLORIDE-CONTAINING ADMIXTURES. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260.
  - BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM UNIT WEIGHT SPECIFIED IN GEOTECH REPORT. THE SOIL SHALL BE INSTALLED IN 6" TO 8" LIFTS AND COMPACTED THOROUGHLY TO ACHIEVE APPROPRIATE UNIT WEIGHT UNLESS GEOTECH SPECIFIES OTHER COMPACTION REQUIREMENTS.
  - VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.

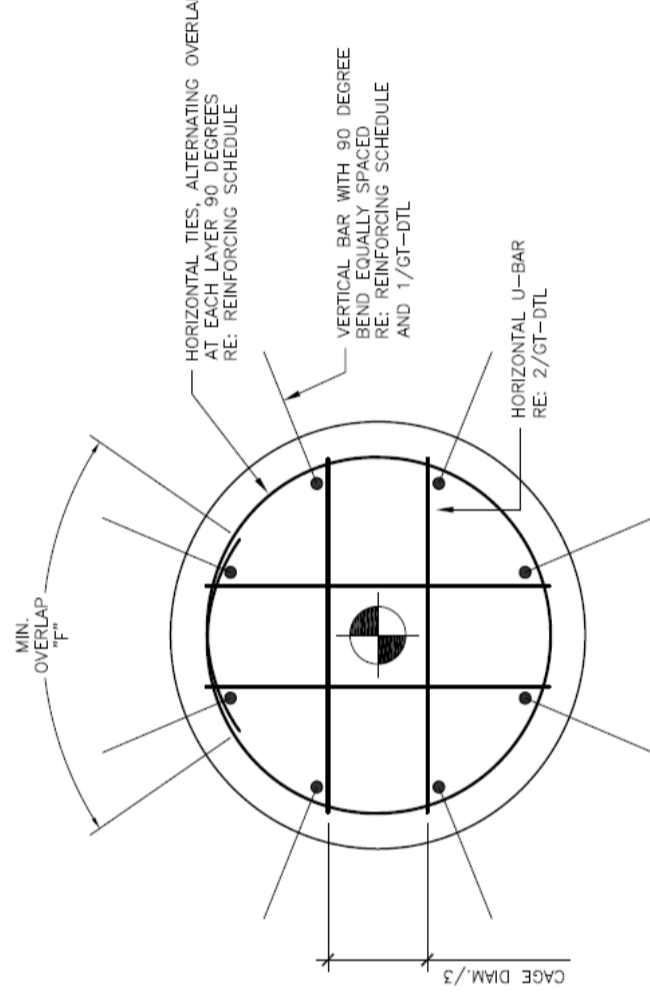
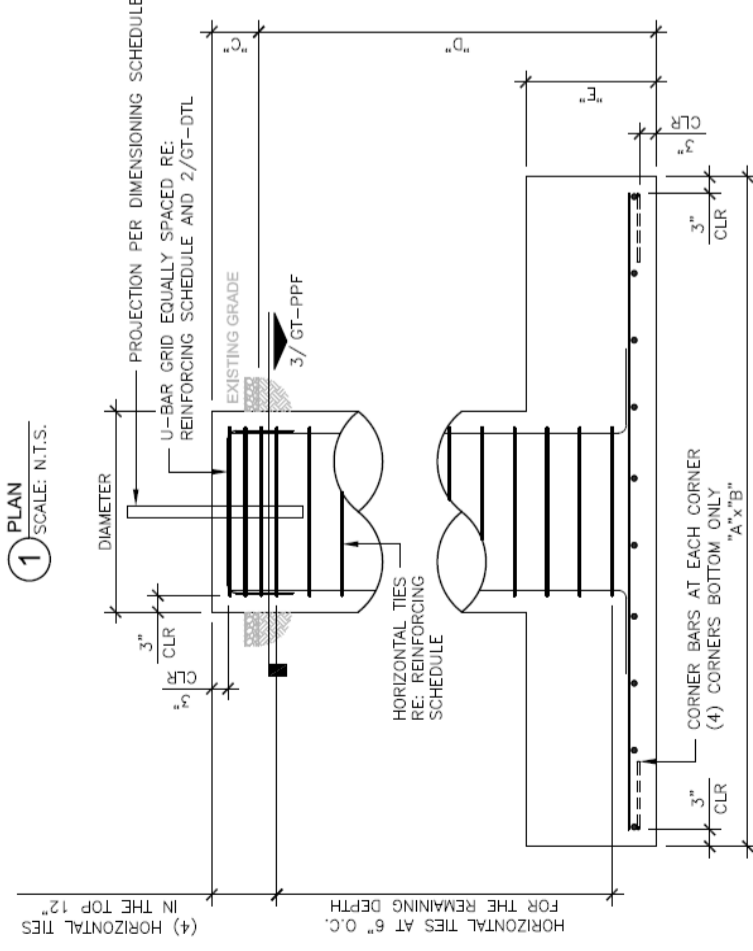
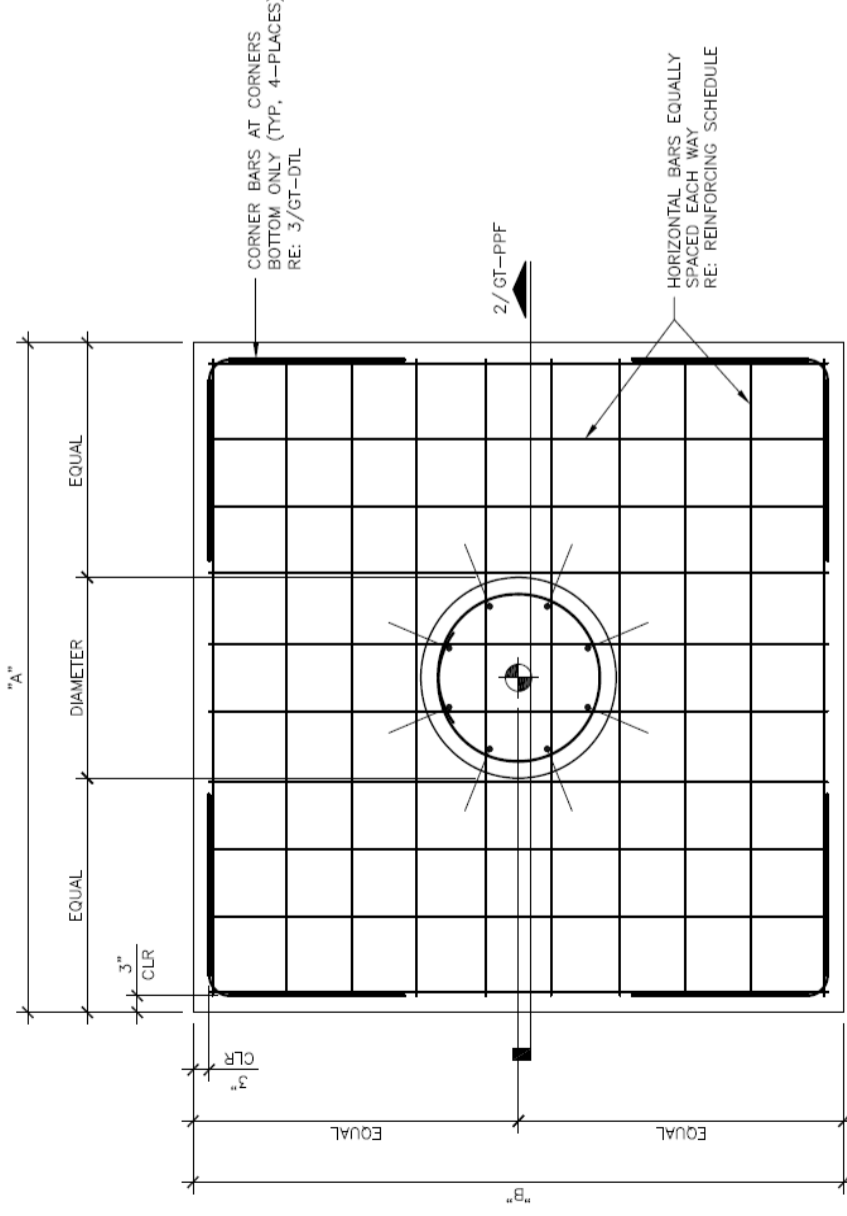
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DIMENSIONING SCHEDULE	
A	6' 0"
B	6' 0"
C	0' 6"
D	4' 0"
E	1' 6"
MIN. OVERLAP "F"	2' 3"
DIAMETER	2' 6"
CENTER PIN PROJ.	REF TO MFG.

REINFORCING SCHEDULE			TOTAL QTY
VERTICAL BARS	# 6		9
HORIZONTAL TIES	# 4		10
U-BAR HORIZONTAL (PEDESTAL)	# 4		4
BOTTOM HORIZONTAL BARS	# 6		14
CORNER BARS	# 4		4

BASE REACTIONS: (FACTORED LOADS)	
VERTICAL	216 KIPS
HORIZONTAL	1 KIPS





1717 S BOULDER AVE #300, TULSA, OK 74119  
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8601 SIX FORKS RD., STE. 250, RALEIGH, NC

REV	DATE	DESCRIPTION
0	03/12/26	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2026



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PROJECT INFORMATION:

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SITE NAME: EV GUM CREEK  
SITE NO: KY-1822  
CLIENT NAME: APC TOWERS IV, LLC  
DRAWN BY: RANDALL ASHWORTH, E.I.  
CHECKED BY: JL

SHEET TITLE:

B2 ANCHOR BLOCK FOUNDATION

SHEET NUMBER: **GT-ABF**

REVISION:

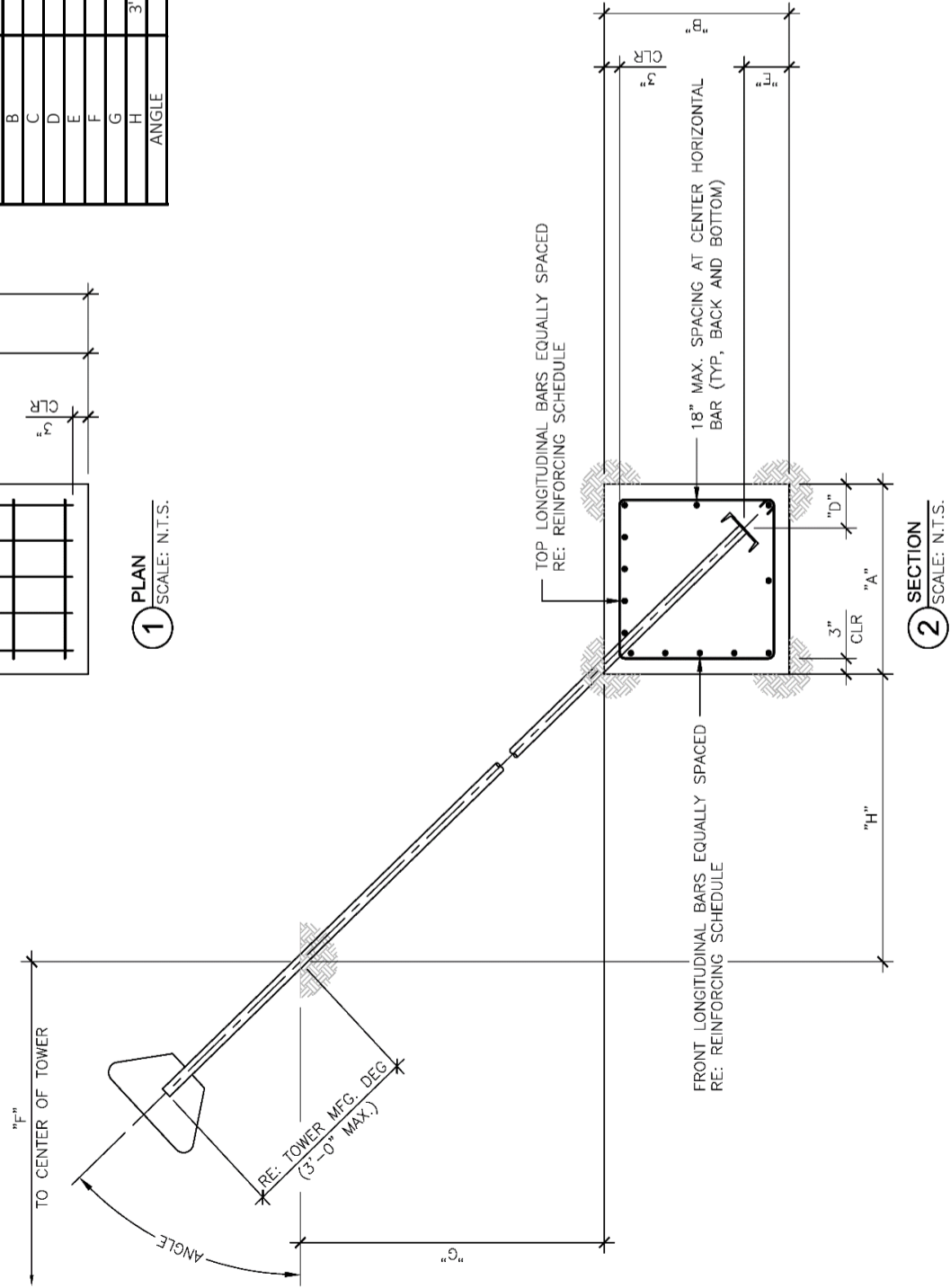
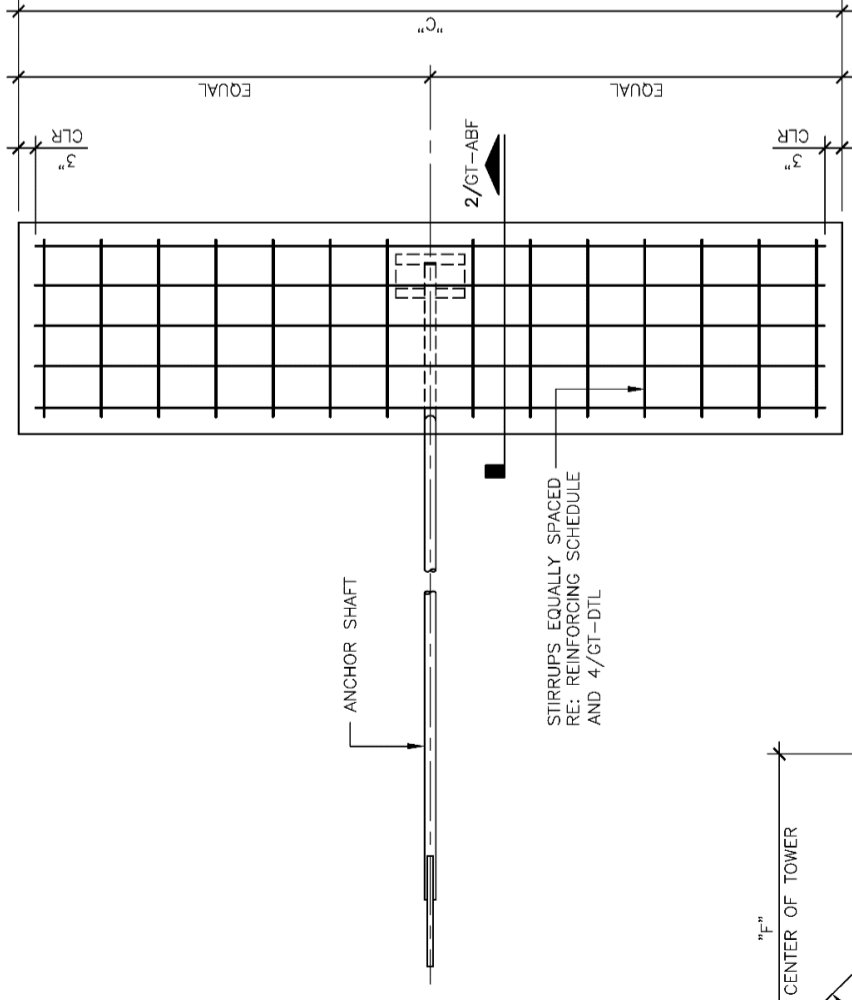
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GEOTECHNICAL PROPERTIES BY: ENVIRONMENTAL CORPORATION OF AMERICA  
PROJECT NUMBER: 25-004489
  - DATE: JANUARY 12, 2026  
THIS FOUNDATION HAS BEEN DESIGNED IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION REFERENCED ABOVE. IF ANYTHING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR TO CONSTRUCTION.
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  - CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14.
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  - ANCHOR SHAFT: BY TOWER MANUFACTURER

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DIMENSIONING SCHEDULE	REINFORCING SCHEDULE	SIZE	TOTAL QTY	BASE REACTIONS: (FACTORED LOADS)
A 2'-0"	STIRRUPS	#4	7	VERTICAL 67 KIPS
B 2'-0"	LONGITUDINAL BARS TOP	#6	3	HORIZONTAL 53 KIPS
C 6'-0"	LONGITUDINAL BARS FRONT	#6	3	
D 0'-6"	LONGITUDINAL BARS BACK	#6	1	
E 0'-6"	LONGITUDINAL BARS BOTTOM	#6	2	
F 165'-0"				
G 5'-0"				
H 3'-7-11/16"				
ANGLE 51.7°				





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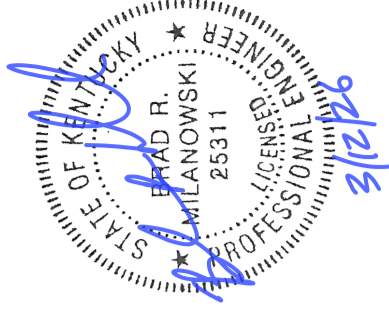


8601 SIX FORKS RD., STE. 250, RALEIGH, NC

REV	DATE	DESCRIPTION
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COA: 4011

EXPIRES: 12/31/2026



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SITE NAME: EV GUM CREEK  
SITE NO: KY-1822  
CLIENT NAME: APC TOWERS IV, LLC  
DRAWN BY: RANDALL ASHWORTH, E.I.  
CHECKED BY: JL

SHEET TITLE:

B3 ANCHOR BLOCK FOUNDATION

SHEET NUMBER:

GT-ABF

REVISION:

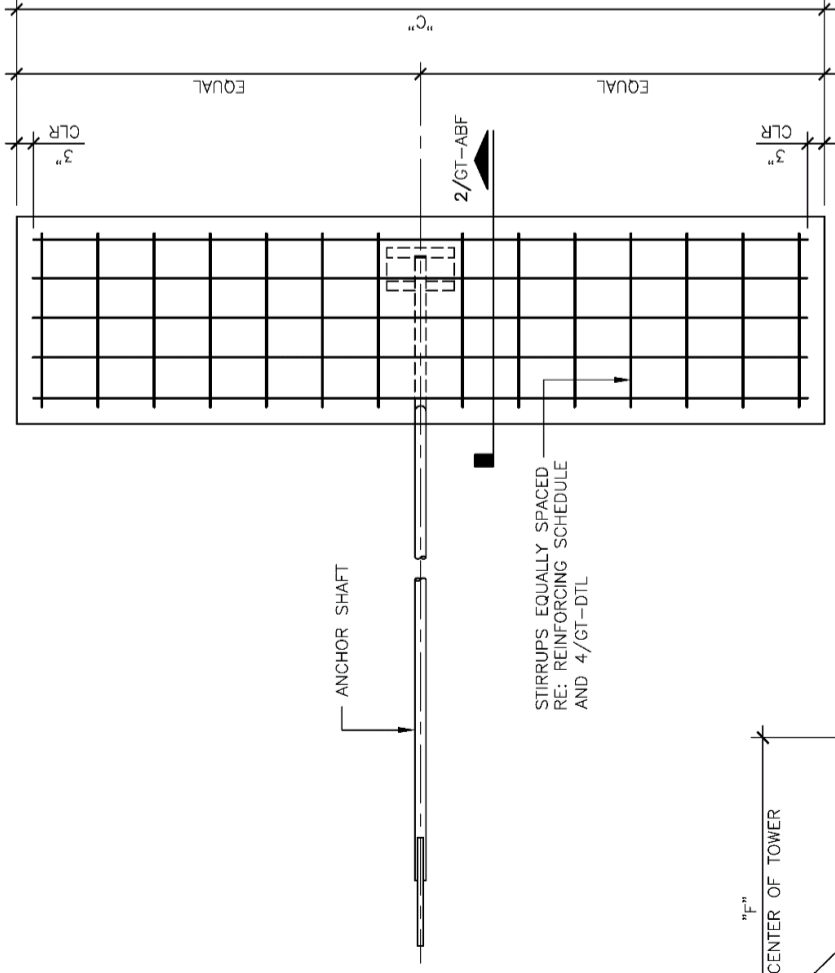
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25-004489  
DATE: JANUARY 12, 2026
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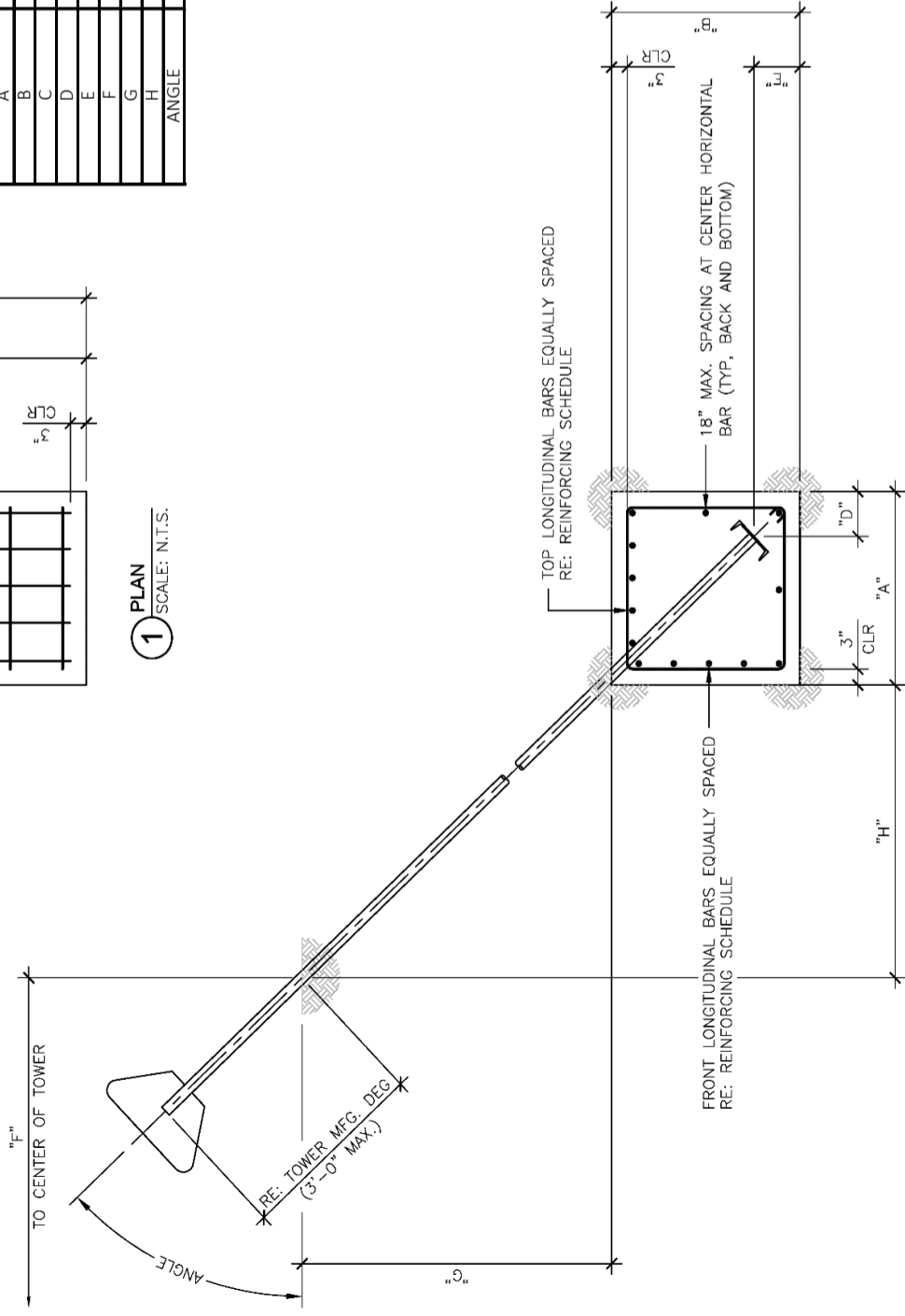
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E 0'-6"	LONGITUDINAL BARS BOTTOM	#6	2	
F 165'-0"				
G 5'-0"				
H 3'-8-5/8"				
ANGLE 51.2°				



1 PLAN  
SCALE: N.T.S.



2 SECTION  
SCALE: N.T.S.



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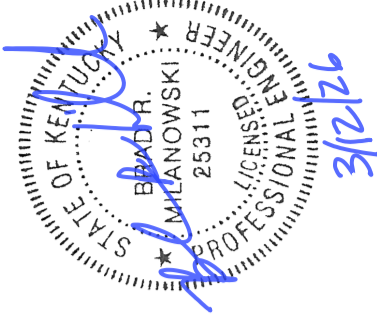


8601 SIX FORKS RD., STE. 250, RALEIGH, NC

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SITE NO: KY-1822  
CLIENT NAME: APC TOWERS IV, LLC  
DRAWN BY: RANDALL ASHWORTH, E.I.  
CHECKED BY: JL

SHEET TITLE:

B4 ANCHOR BLOCK FOUNDATION

SHEET NUMBER:

GT-ABF

REVISION:

0

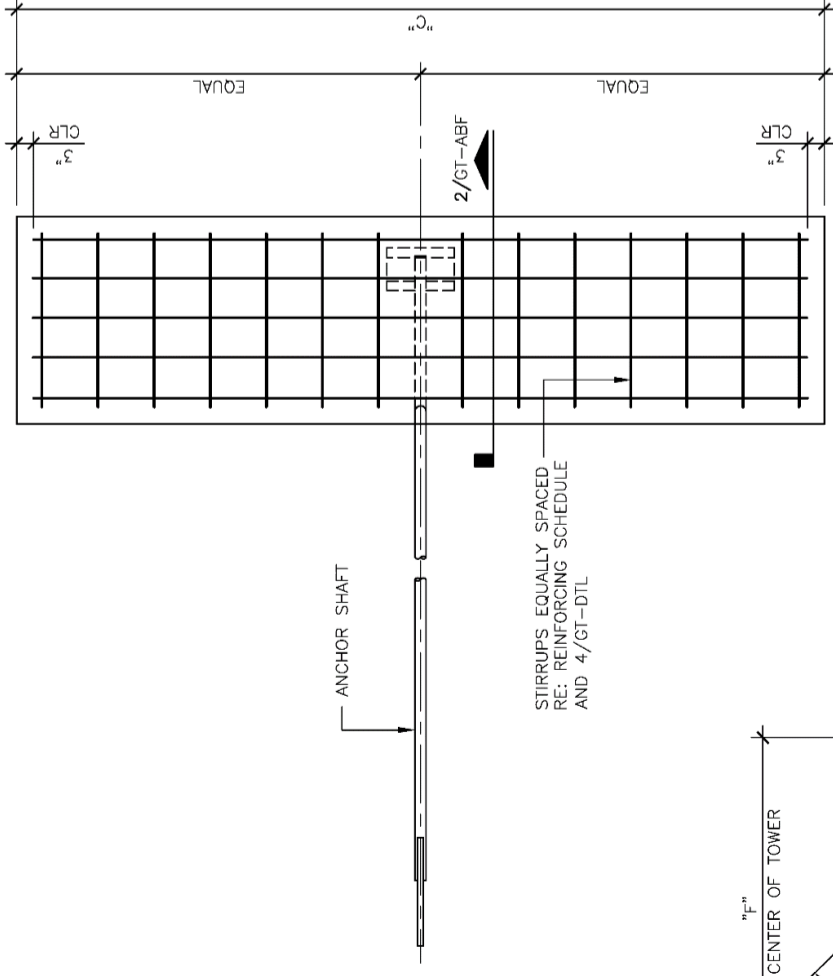
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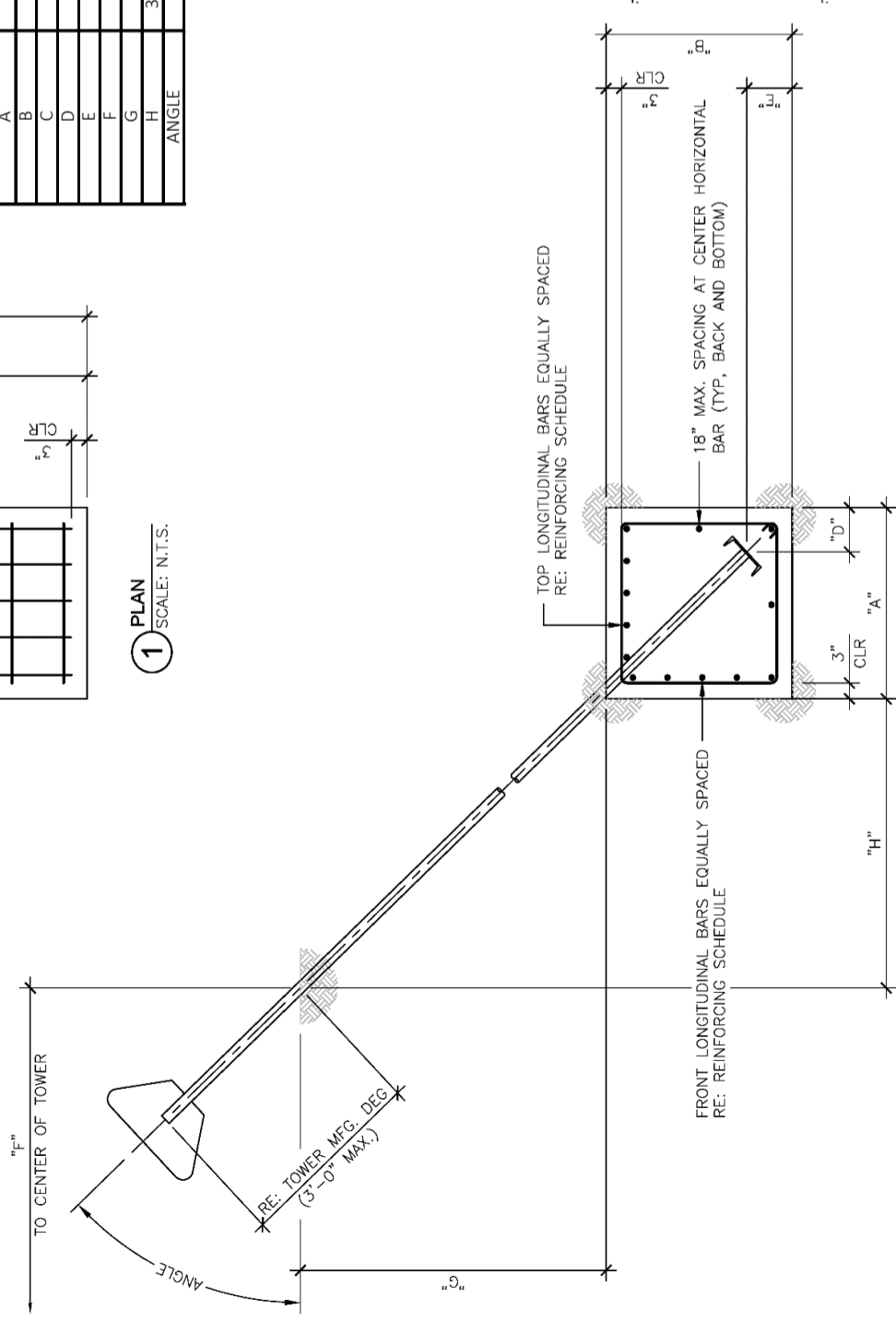
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C	6' 0"	LONGITUDINAL BARS FRONT	#6	3
D	0' 6"	LONGITUDINAL BARS BACK	#6	1
E	0' 6"	LONGITUDINAL BARS BOTTOM	#6	2
F	165' 0"			
G	5' 0"			
H	3' 5-15/16"			
ANGLE	52.5°			

BASE REACTIONS: (FACTORED LOADS)	VERTICAL	HORIZONTAL
	69 KIPS	53 KIPS



1 PLAN  
SCALE: N.T.S.

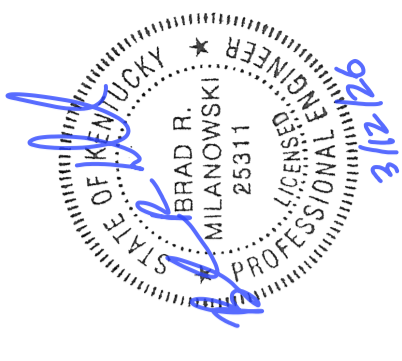


2 SECTION  
SCALE: N.T.S.



ISSUED FOR:		
REV	DATE	DESCRIPTION
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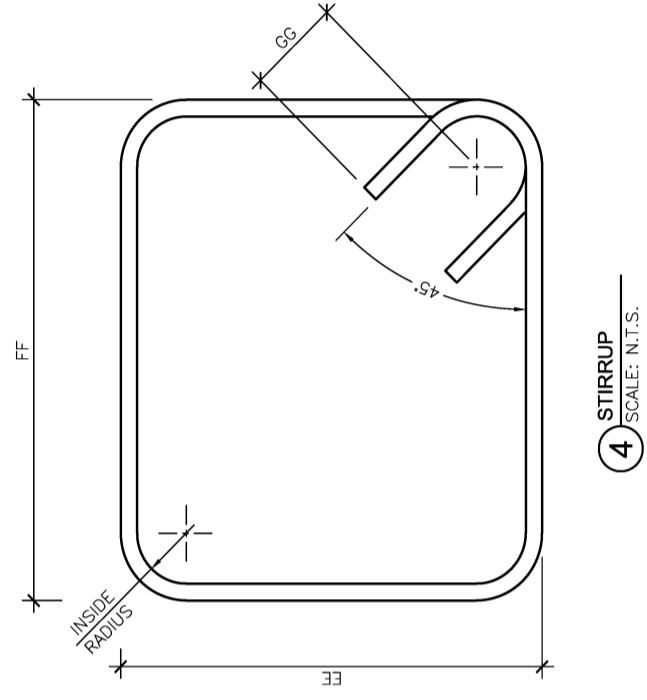
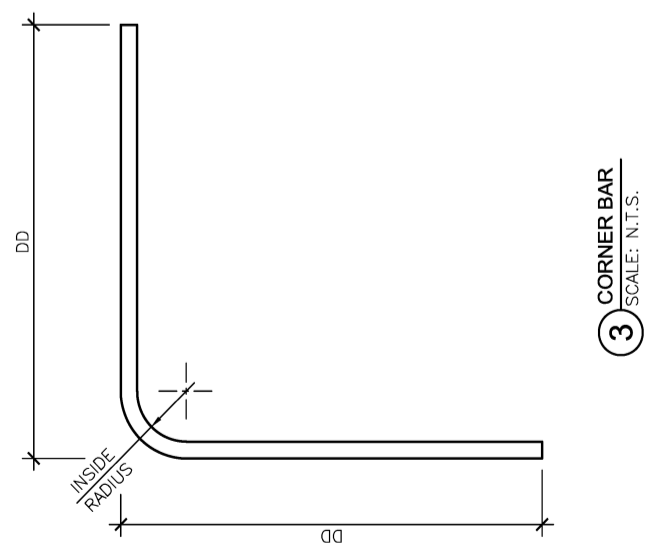
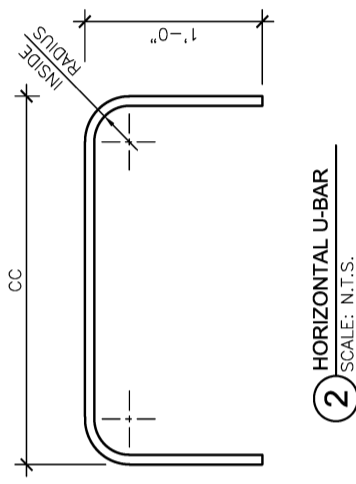
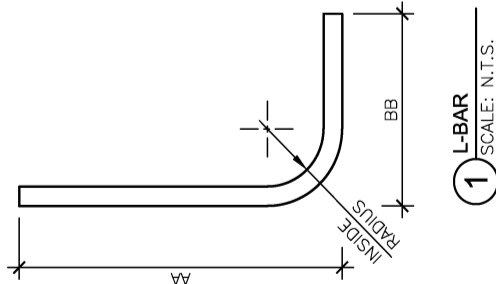
SHEET TITLE:  
DIMENSIONING DETAIL

SHEET NUMBER: **DTL**  
REVISION: **0**

DIMENSIONING SCHEDULE	
AA*	3' 10-1/2"
BB	1' 0"
CC*	1' 10-5/8"
DD	3' 0"

B2	B3	B4
ANCHOR	ANCHOR	ANCHOR
EE*	1' 6"	1' 6"
FF*	1' 6"	1' 6"
GG	0' 3"	0' 3"

\*NOTE: CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO FABRICATION



# Pier and Pad Foundation

Project #:	26-001566
Site Name:	EV Gum Creek
Site #:	KY-1822

TIA-222 Revision:	H
Tower Type:	Guyed

Top & Bot. Pad Rein. Different?:	<input type="checkbox"/>
Block Foundation?:	<input type="checkbox"/>
Rectangular Pad?:	<input type="checkbox"/>

Superstructure Analysis Reactions		
Compression, $P_{comp}$ :	216	kips
Base Shear, $Vu_{comp}$ :	1	kips
Moment, $M_u$ :	0	ft-kips
Tower Height, $H$ :	300	ft
BP Dist. Above Fdn, $bp_{dist}$ :	0	in
Bolt Circle / Bearing Plate Width, $BC$ :	12	in

Foundation Analysis Checks				
	Capacity	Demand	Rating	Check
<i>Lateral (Sliding) (kips)</i>	54.57	1.00	1.8%	Pass
<i>Bearing Pressure (ksf)</i>	7.46	6.69	89.7%	Pass
<i>Overturning (kip*ft)</i>	128.05	4.50	3.5%	Pass
<i>Pier Flexure (Comp.) (kip*ft)</i>	370.16	3.00	0.8%	Pass
<i>Pier Compression (kip)</i>	3124.31	218.65	7.0%	Pass
<i>Pad Flexure (kip*ft)</i>	187.08	56.31	30.1%	Pass
<i>Pad Shear - 1-way (kips)</i>	94.77	21.88	23.1%	Pass
<i>Pad Shear - 2-way (Comp) (ksi)</i>	0.190	0.053	27.8%	Pass
<i>Flexural 2-way (Comp) (kip*ft)</i>	374.15	1.80	0.5%	Pass

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, $dpier$ :	2.5	ft
Ext. Above Grade, $E$ :	0.5	ft
Pier Rebar Size, $Sc$ :	6	
Pier Rebar Quantity, $mc$ :	9	
Pier Tie/Spiral Size, $St$ :	4	
Pier Tie/Spiral Quantity, $mt$ :	10	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, $cc_{pier}$ :	3	in

Structural Rating:	30.1%
Soil Rating:	89.7%

Pad Properties		
Depth, $D$ :	4	ft
Pad Width, $W_1$ :	6	ft
Pad Thickness, $T$ :	1.5	ft
Pad Rebar Size (Bottom dir. 2), $Sp_2$ :	6	
Pad Rebar Quantity (Bottom dir. 2), $mp_2$ :	7	
Pad Clear Cover, $cc_{pad}$ :	3	in

Material Properties		
Rebar Grade, $F_y$ :	60	ksi
Concrete Compressive Strength, $F'_c$ :	4	ksi
Dry Concrete Density, $\delta_c$ :	150	pcf

Soil Properties		
Total Soil Unit Weight, $\gamma$ :	110	pcf
Ultimate Net Bearing, $Q_{net}$ :	12.000	ksf
Cohesion, $C_u$ :	1.500	ksf
Friction Angle, $\phi$ :	0	degrees
SPT Blow Count, $N_{blows}$ :		
Base Friction, $\mu$ :		
Neglected Depth, $N$ :	1.67	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, $gw$ :	N/A	ft

<--Toggle between Gross and Net

# Guyed Anchor Block Foundation

Checks capacity of anchor blocks for a guyed tower.

<b>Project #:</b>	26-001566
<b>Site Name:</b>	EV Gum Creek
<b>Site #:</b>	KY-1822
<b>Location:</b>	B2 NW

TIA-222 Revision: H

Design Reactions	
Shear, <b>S:</b>	53.00 kips
Uplift, <b>Ua:</b>	67.00 kips
Resultant Force, <b>Rf:</b>	85.43 kips
Tower Height, <b>H:</b>	300.00 ft
Guy Anchor Radius, <b>R:</b>	165.00 ft
Resultant Angle to Horizontal, <b>θ:</b>	51.7 deg

Guy Anchor Properties	
Depth to Bottom of Deadman, <b>Da:</b>	7 ft
Anchor Width, <b>Wa:</b>	2 ft
Anchor Thickness, <b>Ta:</b>	2 ft
Anchor Length, <b>La:</b>	6 ft
Concrete Volume, <b>Vc:</b>	0.9 yd <sup>3</sup>
Toe Width, <b>toe:</b>	0 ft
Guyed Anchor Top Rebar Size, <b>Sat:</b>	6
No. of Bars in Top of Block:	3
Guyed Anchor Front Rebar Size, <b>Saf:</b>	6
No. of Bars in Front of Block:	3
Stirrup Size:	4

Material Properties	
Rebar Grade, <b>Fy:</b>	60 ksi
Concrete Strength, <b>F'c:</b>	4 ksi
Wt. Avg. Concrete Density, <b>δx:</b>	0.088 kcf
Clear Cover, <b>cc:</b>	3 in

Design Checks				
	Capacity	Demand	Rating	Check
Lateral Capacity (kips):	90.87	53.00	58.3%	Pass
Uplift Capacity (kips):	73.79	67.00	90.8%	Pass
Lateral Flexural Capacity (ft*kips):	116.66	39.75	34.1%	Pass
Uplift Flexural Capacity (ft*kips):	116.66	50.25	43.1%	Pass

Anchor Shaft Rating:	N/A
Structural Rating:	43.1%
Soil Rating:	90.8%

Neglect Depth, <b>Neg:</b>	1.667 ft
Groundwater Level, <b>gw:</b>	2 ft

Soil Properties:					
Layer	φ, deg	c <sub>u</sub> , ksf	δ, pcf	d, ft	N (blows/ft)
1	0	1.500	115	2.00	
2	0	1.500	52.6	4.00	
3	0	3.500	57.6	7.00	

No. of Soil Layers: 3

\*key: φ = Internal Angle of Friction  
 c<sub>u</sub> = Cohesion / Undrained Shear Strength  
 δ = Buoyant Soil Unit Weight  
 d = Depth to Bottom of Layer  
 Ultimate fs = Geotechnical Report-provided skin friction / adhesion  
 N = SPT Blow Count

# Guyed Anchor Block Foundation

Checks capacity of anchor blocks for a guyed tower.

<b>Project #:</b>	26-001566
<b>Site Name:</b>	EV Gum Creek
<b>Site #:</b>	KY-1822
<b>Location:</b>	B3 SW

TIA-222 Revision: H

Design Reactions	
Shear, <b>S:</b>	53.00 kips
Uplift, <b>Ua:</b>	66.00 kips
Resultant Force, <b>Rf:</b>	84.65 kips
Tower Height, <b>H:</b>	300.00 ft
Guy Anchor Radius, <b>R:</b>	165.00 ft
Resultant Angle to Horizontal, <b>θ:</b>	51.2 deg

Guy Anchor Properties	
Depth to Bottom of Deadman, <b>Da:</b>	7 ft
Anchor Width, <b>Wa:</b>	2 ft
Anchor Thickness, <b>Ta:</b>	2 ft
Anchor Length, <b>La:</b>	6 ft
Concrete Volume, <b>Vc:</b>	0.9 yd <sup>3</sup>
Toe Width, <b>toe:</b>	0 ft
Guyed Anchor Top Rebar Size, <b>Sat:</b>	6
No. of Bars in Top of Block:	3
Guyed Anchor Front Rebar Size, <b>Saf:</b>	6
No. of Bars in Front of Block:	3
Stirrup Size:	4

Material Properties	
Rebar Grade, <b>Fy:</b>	60 ksi
Concrete Strength, <b>F'c:</b>	4 ksi
Wt. Avg. Concrete Density, <b>δx:</b>	0.150 kcf
Clear Cover, <b>cc:</b>	3 in

Design Checks				
	Capacity	Demand	Rating	Check
Lateral Capacity (kips):	93.18	53.00	56.9%	Pass
Uplift Capacity (kips):	77.11	66.00	85.6%	Pass
Lateral Flexural Capacity (ft*kips):	116.66	39.75	34.1%	Pass
Uplift Flexural Capacity (ft*kips):	116.66	49.50	42.4%	Pass

Anchor Shaft Rating:	N/A
Structural Rating:	42.4%
Soil Rating:	85.6%

Neglect Depth, <b>Neg:</b>	1.667 ft
Groundwater Level, <b>gw:</b>	N/A ft

Soil Properties:					
Layer	φ, deg	c <sub>u</sub> , ksf	δ, pcf	d, ft	N (blows/ft)
1	0	1.500	115	2.00	
2	0	1.500	115	4.00	
3	0	3.500	120	7.00	

\*key: φ = Internal Angle of Friction  
 c<sub>u</sub> = Cohesion / Undrained Shear Strength  
 δ = Buoyant Soil Unit Weight  
 d = Depth to Bottom of Layer  
 Ultimate fs = Geotechnical Report-provided skin friction / adhesion  
 N = SPT Blow Count

# Guyed Anchor Block Foundation

Checks capacity of anchor blocks for a guyed tower.

<b>Project #:</b>	26-001566
<b>Site Name:</b>	EV Gum Creek
<b>Site #:</b>	KY-1822
<b>Location:</b>	B4 NE

TIA-222 Revision: H

Design Reactions	
Shear, <b>S:</b>	53.00 kips
Uplift, <b>Ua:</b>	69.00 kips
Resultant Force, <b>Rf:</b>	87.01 kips
Tower Height, <b>H:</b>	300.00 ft
Guy Anchor Radius, <b>R:</b>	165.00 ft
Resultant Angle to Horizontal, <b>θ:</b>	52.5 deg

Guy Anchor Properties	
Depth to Bottom of Deadman, <b>Da:</b>	7 ft
Anchor Width, <b>Wa:</b>	2 ft
Anchor Thickness, <b>Ta:</b>	2 ft
Anchor Length, <b>La:</b>	6 ft
Concrete Volume, <b>Vc:</b>	0.9 yd <sup>3</sup>
Toe Width, <b>toe:</b>	0 ft
Guyed Anchor Top Rebar Size, <b>Sat:</b>	6
No. of Bars in Top of Block:	3
Guyed Anchor Front Rebar Size, <b>Saf:</b>	6
No. of Bars in Front of Block:	3
Stirrup Size:	4

Material Properties	
Rebar Grade, <b>Fy:</b>	60 ksi
Concrete Strength, <b>F'c:</b>	4 ksi
Wt. Avg. Concrete Density, <b>δx:</b>	0.150 kcf
Clear Cover, <b>cc:</b>	3 in

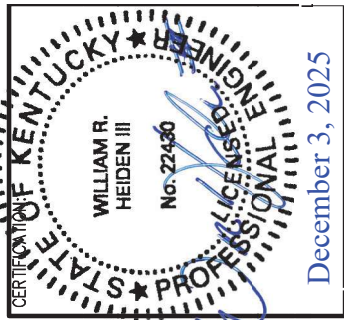
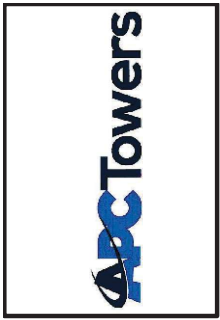
Design Checks				
	Capacity	Demand	Rating	Check
Lateral Capacity (kips):	92.99	53.00	57.0%	Pass
Uplift Capacity (kips):	77.26	69.00	89.3%	Pass
Lateral Flexural Capacity (ft*kips):	116.66	39.75	34.1%	Pass
Uplift Flexural Capacity (ft*kips):	116.66	51.75	44.4%	Pass

Anchor Shaft Rating:	N/A
Structural Rating:	44.4%
Soil Rating:	89.3%

Neglect Depth, <b>Neg:</b>	1.667 ft
Groundwater Level, <b>gw:</b>	N/A ft

Soil Properties:					
Layer	φ, deg	c <sub>u</sub> , ksf	δ, pcf	d, ft	N (blows/ft)
1	0	1.500	115	2.00	
2	0	1.500	115	4.00	
3	0	3.500	120	7.00	

\*key: φ = Internal Angle of Friction  
 c<sub>u</sub> = Cohesion / Undrained Shear Strength  
 δ = Buoyant Soil Unit Weight  
 d = Depth to Bottom of Layer  
 Ultimate fs = Geotechnical Report-provided skin friction / adhesion  
 N = SPT Blow Count



RELEASE	REV	DATE	LEASE EXHIBIT	ZONING DRAWINGS
	06-03-2025			
	11-17-2025			

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**KY-1822**  
**EV GUM CREEK**  
**ROAD**  
**CELL SITE**

SITE ADDRESS:  
**FRANK HILL ROAD**  
**MARION, KY 42064**

SHEET TITLE:  
**LIVINGSTON COUNTY**  
**EXISTING STRUCTURE**  
**MAP**

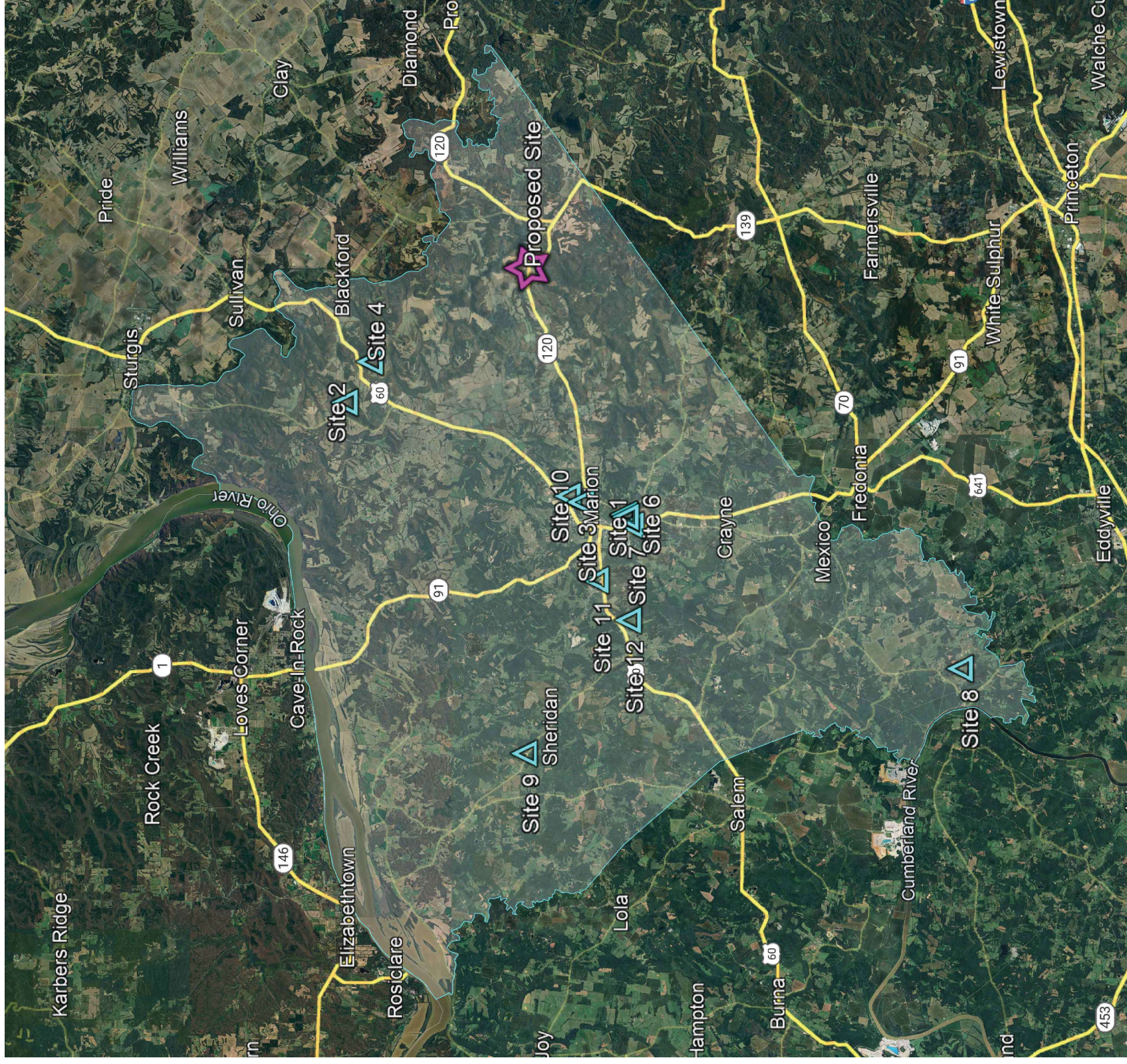
SHEET NO.:

**Z-1**

### FCC Registered Sites (Crittenden County)

Tower	ASR Registration	Latitude	Longitude	Tower Owner
1	1030656	N37° 19' 00.3"	W088° 04' 34.3"	CROWN CASTLE SOUTH, LLC
2	1031949	N37° 26' 51.0"	W088° 00' 33.0"	CELLCO PARTNERSHIP
3	1042595	N37° 20' 16.0"	W088° 04' 03.0"	JOE MYERS PRODUCTIONS, INC
4	1043416	N37° 26' 08.9"	W087° 59' 07.1"	CROWN CASTLE SOUTH, LLC
5	1043420	N37° 19' 03.2"	W088° 04' 31.8"	CROWN CASTLE SOUTH, LLC
6	1204765	N37° 19' 03.0"	W088° 04' 29.0"	BIG RIVERS ELECTRIC CORPORATION
7	1280106	N37° 18' 52.0"	W088° 04' 51.7"	CRITTENDEN COUNTY
8	1288526	N37° 09' 40.8"	W088° 09' 52.5"	CELLCO PARTNERSHIP
9	1303574	N37° 21' 50.2"	W088° 12' 51.8"	HARMONI TOWERS, LLC
10	1309252, 1313141	N37° 20' 37.8"	W088° 02' 50.0"	CTI TOWERS ASSETS II, LLC
11	1328058	N37° 19' 50.6"	W088° 06' 47.0"	AT&T MOBILITY SERVICES, LLC
12	1330849	N37° 18' 56.3"	W088° 08' 11.4"	AT&T MOBILITY LLC
<b>Proposed Tower</b>				
	PENDING	N37° 21' 46.8"	W088° 55' 49.9"	APC TOWERS IV, LLC

**NOTE**  
 EXISTING TOWER STRUCTURES DEPICTED ARE ALL KNOWN TOWER STRUCTURES REGISTERED WITH THE FEDERAL COMMUNICATIONS COMMISSION (FCC) ANTENNA STRUCTURE REGISTRATION (ASR) IN CRITTENDEN COUNTY, KENTUCKY AS OF OCTOBER 25, 2025.



**Crittenden County Tower Map**

- [←](#)
- [Home](#)
- [Dashboard](#)
- [Reports](#)
- [Search](#)
- [Download](#)
- [Pre-Screening Tool](#)
- [Tools](#)
- [FAQ & Resources](#)

## File Notice

My Recent Activity

Form Approved OMB No.2120-0001  
Expiration Date: 05/31/2026

Privacy Act Statement (5 U.S.C. § 552a(e)(3)): Authority: Information solicited by the Federal Aviation Administration (FAA) Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) is authorized by 49 U.S.C. § 44718 and 47101 Purpose: The FAA OE/AAA is an application used to evaluate all structures that may affect the national airspace system and defend against potential hazards to the safety and efficient use of the navigable airspace. The information collected is used to allow a user access to the OE/AAA and to administer the Aeronautical Study Process. Routine Uses: In accordance with the Privacy Act system of records notice, DOT/ALL 16 Mailing Management System and DOT/FAA 826 Petitions for Exemptions, Other than Medical Exemptions this information may be disclosed to officials within the federal government and the public in general. DOT/ALL 13 - Internet/Intranet Activity and Access Records, this information is routinely used; • To provide information to any person(s) authorized to assist in an approved investigation of improper access or usage of DOT computer systems; • To an actual or potential party or his or her authorized representative for the purpose of negotiation or discussion of such matters as settlement of the case or matter, or informal discovery proceedings; • To contractors, grantees, experts, consultants, detailees, and other non-DOT employees performing or working on a contract, service, grant cooperative agreement, or other assignment from the Federal government, when necessary to accomplish an agency function related to this system of records; and • To other government agencies where required by law.

Disclosure: Submission of the information is voluntary, however, failure to submit requested information will result in FAA's inability to grant you access to the system and may result in an inability of the FAA to process the notice or administer the aeronautical study process for the construction, alteration, activation, or deactivation proposed.

Failure to Provide All Requested Information May Delay Processing of your Notice



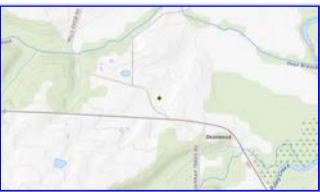
U.S. Department of Transportation  
Federal Aviation Administration

### Notice of Proposed Construction or Alteration

FOR FAA USE ONLY

Aeronautical Study Number  
2025-ASO-24263-OE

Status: Studying

<p><b>1. Sponsor</b></p> <p>Name: APC Towers          Attn of: Jonathan Greene          Address: 8601 Six Forks Rd                    Suite 250          City: Raleigh                      State: NC                      Zip: 27615          Country: US          Phone: tel:+1-704-724-8382                      Fax:</p> <p><b>2. Sponsor's Representative</b></p> <p>Name: APC Towers, LLC          Attn of: Jonathan Greene          Address: 8601 Six Forks Road          City: RALEIGH                      State: NC                      Zip: 27615          Country: US          Phone: tel:+1-919-249-7732                      Fax:</p> <p><b>3. Notice of:</b> Construction</p> <p><b>4. Duration:</b> Permanent (Months: Days:)</p> <p><b>5. Work Schedule:</b> N/A</p> <p><b>6a. Type:</b> Antenna Tower                      <b>6b. Name:</b> KY-1822 EV Gum Creek Road</p> <p><b>7. Preferred Marking/Lighting:</b> Not Marked/Dual, High Intensity Strobe during day, Red at night</p> <p><b>Current Marking/Lighting:</b></p> <p><b>8. FCC Antenna Registration Number (if applicable):</b> _____</p>	<p><b>9. Latitude:</b> See Collected Point(s)</p> <p><b>10. Longitude:</b> See Collected Point(s)</p> <p><b>11. Datum:</b> See Collected Point(s)</p> <p><b>12. Nearest:</b> City: Marion                      State: Kentucky</p> <p><b>13. Nearest Public-use or Military Airport or Heliport:</b> MARION-CRITTENDEN COUNTY          JAMES C JOHNSON          RGNL(GDA)          52993 ft.</p> <p><b>14. Distance from #13. to Structure:</b> 52993 ft.</p> <p><b>15. Direction from #13. to Structure:</b> 79 deg</p> <p><b>16. Site Elevation (SE):</b> See Collected Point(s)</p> <p><b>17. Structure Height (AGL):</b> See Collected Point(s)</p> <p><b>18. Overall Height (#16 + #17) (AMSL):</b> See Collected Point(s)</p> <p><b>Current Overall Height (#16 + #17) (AMSL):</b> See Collected Point(s)</p> <p><b>19. Previous FAA Aeronautical Study Number (if applicable):</b> _____</p> <p><b>20. Description of Location:</b></p> <p>See Survey </p> <p><b>Processed 7460-2 Forms :</b></p> <p><b>Supplemental Form 7460-2 :</b> <a href="#">Add 7460-2</a></p>
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**21. Description of**  
**Proposal:**  
 Construction of new telecommunications tower

LOW ↑	HIGH ↑	ERP
6	6	42 DBW
6	6	55 DBW
10	10	55 DBW
17.7	17.7	42 DBW
17.7	17.7	55 DBW
21.2	21.2	42 DBW
21.2	23.6 GHz	55 DBW
614	614	1000 W
614	698 MHz	2000 W
698	806 MHz	1000 W
806	824 MHz	500 W
806	901 MHz	500 W
824	849 MHz	500 W
851	866 MHz	500 W
869	894 MHz	500 W
896	901 MHz	500 W
901	902 MHz	7 W
929	932 MHz	3500 W
930	931 MHz	3500 W
931	932 MHz	3500 W
932	932.5 MHz	17 DBW
935	940 MHz	1000 W
940	941 MHz	3500 W
1670	1675 MHz	500 W
1710	1755 MHz	500 W
1850	1910 MHz	1640 W
1850	1990 MHz	1640 W
1930	1990 MHz	1640 W
1990	2025 MHz	500 W
2110	2200 MHz	500 W
2305	2360 MHz	2000 W
2305	2310 MHz	2000 W

Frequencies:

Specific Frequencies:

LOW ↑	HIGH ↑	ERP
3700	3980 MHz	1640 W
3700	3980 MHz	3280 W

LOW	HIGH	ERP
2345	2360 MHz	2000 W
2496	2690 MHz	500 W

Collected Point(s):

Label	Latitude	Longitude	Datum	AGL	SE	SE Validation	SE Comments
pt-1	37 21 46.88N	87 55 49.91W	NAD83	305 ft	376 ft	PASSED	

Notice is required by 14 Code of Federal Regulations, part 77 pursuant to 49 U.S.C., Section 44718. Persons who knowingly and willingly violate the notice requirements of part 77 are subject to a civil penalty of \$1,000 per day until the notice is received, pursuant to 49 U.S.C., Section 46301(a)

I hereby certify that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to mark and/or light the structure in accordance with established marking & lighting standards as necessary.

This FAA Form 7460-1 was submitted electronically on 11/24/2025 at 16:08 PM EST.

Add Document

Title	Type	File		
<input type="text"/>	<input type="text"/>	<a href="#">KY-1822 EV Gum Creek Road Survey 10-09-2025.pdf</a>		<input type="button" value="DONE"/> <input type="button" value="X"/>
Survey	Survey	<a href="#">KY-1822 EV Gum Creek Road Survey 10-09-2025.pdf</a>		<input type="button" value="DONE"/> <input type="button" value="X"/>

Letter	Date
<input type="text"/>	<input type="text"/>

Previous

## APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

### JURISDICTION

602 KAR 50:030

Section 1. The commission has zoning jurisdiction over that airspace over and around the public use and military airports within the Commonwealth which lies above the imaginary surface that extends outward and upward at one (1) of the following slopes:

- (1) 100 to one (1) for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each public use airport and military airport with at least one (1) runway 3,200 feet or more in length; or
- (2) fifty (50) to one (1) for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each public use and military airport with its longest runway less than 3,200 feet in length.

Section 2. The commission has zoning jurisdiction over the use of land and structures within public use airports within the state.

Section 3. The commission has jurisdiction from the ground upward within the limits of the primary and approach surfaces of each public use airport and military airport as depicted on airport zoning maps approved by the Kentucky Airport Zoning Commission.

Section 4. The Commission has jurisdiction over the airspace of the Commonwealth that exceeds 200 feet in height above the ground.

Section 5. The owner or person who has control over a structure which penetrates or will penetrate the airspace over which the Commission has Jurisdiction shall apply for a permit from the Commission in accordance with 602 KAR 50:090.

### INSTRUCTIONS

1. "Alteration" means to increase or decrease the height of a structure or change the obstruction marking and lighting.
2. "Applicant" means the person who will own or have control over the completed structure.
3. "Certification by Applicant" shall be made by the individual who will own or control the completed structure; or a partner in a partnership; or the president or authorized officer of a corporation company, or association; or the authorized official of a body politic; or the legally designated representative of a trustee, receiver, or assignee.
4. Prepare the application and forward to the Kentucky Dept. of Aviation, ATTN: Airport Zoning Commission, 90 Airport Drive, Frankfort KY 40601. For questions, telephone 502-782-4043.
5. The statutes applicable to the Kentucky Airport Commission are KRS 183.861 to 183.990 and the administrative regulations are 602 KAR Chapter 50.
6. When applicable, attach the following appendices to the application:

Appendix A. A 7.5 minute quadrangle topographical map prepared by the U.S. Geological Survey and the Kentucky Geological Survey with the exact location of the structure which is the subject of the application indicated thereon. (*The 7.5 minute quadrangle map may be obtained from the Kentucky Geological Survey, Department of Mines and Minerals, Lexington, KY 40506.*)

Appendix B. For structures on or very near to property of a public use airport, a copy of the airport layout drawing (ALP) with the exact location of the structure which is the subject of this application indicated thereon. (*The ALP may be obtained from the Chairperson of the local airport board or the Kentucky Airport Zoning Commission.*)

Appendix C. Copies of Federal Aviation Administration Applications (*FFA Form 7460-1*) or any orders issued by the manager, Air Traffic Division, FAA regional office.

Appendix D. If the applicant has indicated in item number 7 of the application that the structure will not be marked or lighted in accordance with the regulations of the Commission, the applicant shall attach a written request for a determination by the commission that the marking and lighting are not necessary. The applicant shall specifically state the reasons that the absence of marking and lighting will not impair the safety of air navigation.

Appendix E. The overall height in feet of the overhead transmission line or static wire above ground level or mean water level with span length 1,000 feet and over shall be depicted on a blueprint profile map.

### PENALTIES

1. Persons failing to comply with the Airport Zoning Commission statutes and regulations are liable for a fine or imprisonment as set forth in KRS 183.990(3).
2. Applicants are cautioned: Noncompliance with Federal Aviation Administration Regulations may provide for further penalties.



KENTUCKY TRANSPORTATION CABINET  
KENTUCKY AIRPORT ZONING COMMISSION

**APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE**

<b>APPLICANT (name)</b> Jack Luckadoo		<b>PHONE</b> 910-520-7646	<b>FAX</b> N/A	<b>KY AERONAUTICAL STUDY #</b>	
<b>ADDRESS (street)</b> 8601 Six Forks Road Suite 250		<b>CITY</b> Raleigh		<b>STATE</b> NC	<b>ZIP</b> 27615
<b>APPLICANT'S REPRESENTATIVE (name)</b> Jack Luckadoo		<b>PHONE</b> 910-520-7646	<b>FAX</b> N/A		
<b>ADDRESS (street)</b> 8601 Six Forks Road Suite 250		<b>CITY</b> Raleigh		<b>STATE</b> NC	<b>ZIP</b> 27615
<b>APPLICATION FOR</b> <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				<b>WORK SCHEDULE</b>	
<b>DURATION</b> <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days )				Start: 11/2026 End: 1/2027	
<b>TYPE</b> <input type="checkbox"/> Crane <input type="checkbox"/> Building <input checked="" type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input type="checkbox"/> Other		<b>MARKING/PAINTING/LIGHTING PREFERRED</b> <input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity <input type="checkbox"/> Dual- red & medium intensity white <input checked="" type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other			
<b>LATITUDE</b> 37° 21' 46.88"		<b>LONGITUDE</b> 87° 55' 49.91"		<b>DATUM</b> <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
<b>NEAREST KENTUCKY</b> City County		<b>NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT</b> Marion-Crittenden County James C Johnson Regional – RGNL (GDA)			
<b>SITE ELEVATION (AMSL, feet)</b> 376.25'		<b>TOTAL STRUCTURE HEIGHT (AGL, feet)</b> 295'		<b>CURRENT (FAA aeronautical study #)</b> 2025-ASO-24263-OE	
<b>OVERALL HEIGHT (site elevation plus total structure height, feet)</b> 671.25'				<b>PREVIOUS (FAA aeronautical study #)</b> N/A	
<b>DISTANCE (from nearest Kentucky public use or Military airport to structure)</b> 52993'				<b>PREVIOUS (KY aeronautical study #)</b> N/A	
<b>DIRECTION (from nearest Kentucky public use or Military airport to structure)</b> 79°					
<b>DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.)</b>  1A Letter Attached					
<b>DESCRIPTION OF PROPOSAL</b>  Proposed new Antenna Tower					
<b>FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?)</b> <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? <b>11/24/2025</b>					
<b>CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)</b>					
<b>PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)</b>					
<b>NAME</b> Jack Luckadoo	<b>TITLE</b> Project Manager	<b>SIGNATURE</b> <i>Jack Luckadoo</i>		<b>DATE</b> 1/14/2026	
<b>COMMISSION ACTION</b> <input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC					
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	<b>SIGNATURE</b>			<b>DATE</b>	



# ENVIRONMENTAL CORPORATION OF AMERICA

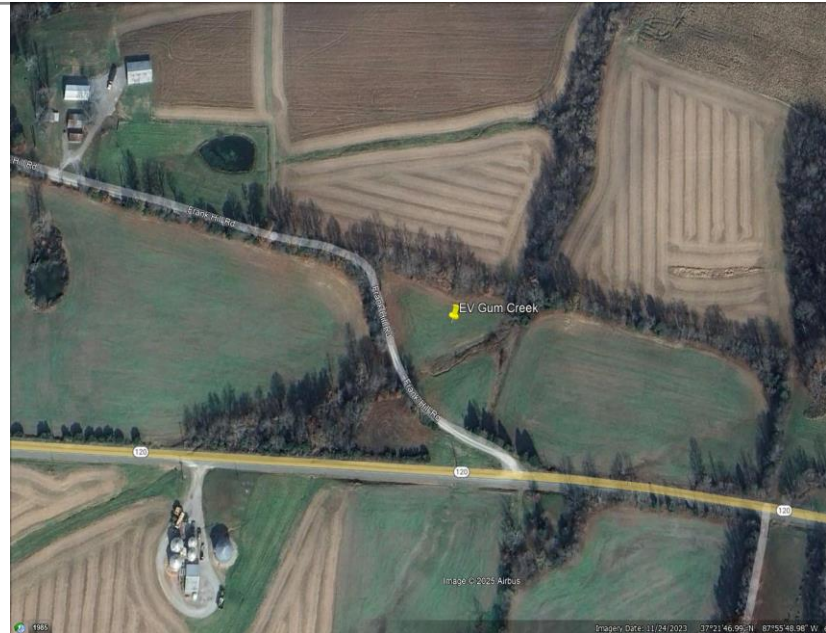
ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

## Geotechnical Investigation

### EV Gum Creek Rd (KY-1822)

State Route 120  
Marion, Crittenden County,  
Kentucky

ECA Project No. 25-004489



### SUBMITTED TO:

APC Towers, LLC  
8601 Six Forks Road, Suite 250  
Raleigh, NC 27615

### PREPARED BY:

Environmental Corporation of America  
1375 Union Hill Industrial Court, Suite A  
Alpharetta, GA 30004



# ENVIRONMENTAL CORPORATION OF AMERICA

ENVIRONMENTAL | GEOTECHNICAL | WETLANDS | ECOLOGY | CULTURAL RESOURCES

January 12, 2026

APC Towers, LLC  
8601 Six Forks Road, Suite 250  
Raleigh, NC 27615

Attention: Mr. Jonathan Greene

**Subject: Geotechnical Investigation Report  
EV Gum Creek Rd (KY-1822)  
State Route 120  
Marion, Crittenden County, Kentucky  
ECA Project No. 25-004489**

Dear Mr. Greene:

Environmental Corporation of America (ECA) is pleased to submit this report of our geotechnical investigation for the proposed project. Our services were provided as authorized by APC Towers, LLC, via a purchase order dated December 12<sup>th</sup>, 2025.

This report presents a review of the information provided to us, a description of the site and subsurface conditions, and our recommendations. The appendices contain a Site Location Map, a Boring Location Plan, and Boring Logs Lab Earth Resistivity Test Data, and Rock Quality Designation (RQD) Index.

We will be happy to discuss our recommendations with you and look forward to providing the additional studies or services necessary to complete this project. We appreciate the opportunity to be of service. Please call us with any questions at (770) 667-2040.

Sincerely,  
**Environmental Corporation of America**

A handwritten signature in blue ink, appearing to read 'Athulya'.

Athulya Balakrishnan, P.E.  
Geotechnical Engineer  
State of Kentucky P.E. #39178



A handwritten signature in blue ink, appearing to read 'Marvin G. Webster'.

Marvin G. Webster  
President

## **Purpose and Scope of Work**

The purpose of this investigation was to obtain specific subsurface data at the project location and to provide geotechnical related parameters for the design and construction of foundations for a new tower and associated guy anchors.

Our scope of work included the following:

- Four (4) soil test borings were drilled to depths ranging from 6 to 17.5 feet below ground surface (bgs).
- Figure 1 shows the Site Location Map. Figure 2 shows the Boring Location Plan.
- Standard penetration tests (SPTs) were conducted to obtain soil samples and SPT N-values, in accordance with ASTM D-1586. Rock core drilling and sampling of rock was performed in accordance with ASTM D-2113.
- The depth to groundwater, if any, was measured in the boring after drilling was completed.
- Natural moisture content ( $WC_N$ ) tests were performed on a selected number of soil samples in accordance with ASTM D-2216.
- Unconfined compressive strength ( $q_u$ ) index tests were performed using the pocket penetrometer test or the spring tester test (whenever possible).
- The soil samples were visually classified in accordance with ASTM D-2488 and a boring log was prepared.
- A soil lab resistivity test was conducted in accordance ASTM G-57.
- The soil conditions were evaluated by a registered professional engineer and this geotechnical report was prepared with our recommendations.

We have recommended design parameters and settlements based on the SPT N-values, an examination of the soil samples, and our experience with similar soil conditions and structures.

## **Project Information**

We were provided with a project site survey prepared by Benchmark Services, Inc. and dated October 8, 2025. The proposed tower would be located near State Route 120, Marion, Crittenden County, Kentucky.

We understand that plans include constructing a 305-foot tall guyed-type tower with three guy anchors, as shown on Figure 2 in Appendix A. We assume that the equipment building/cabinet

will be a prefabricated structure supported on a perimeter grade beam, spread footing or turnout slab. The project also includes constructing a 30-foot wide ingress/egress and utility easement.

## Field Drilling Work

The field drilling work was conducted on December 22<sup>nd</sup>, 2023. Information obtained from the boring logs was used to help us evaluate the subsurface conditions and to assist in formulating our recommendations. The site was not staked at the time of our field visit.

## Subsurface Soil Conditions (Borings B-1, B-2, B-3, and B-4)

The subsurface conditions were explored with four soil test borings, drilled approximately as shown on Figure 2.

Boring B-1 (Lease Area Center): In general, soils at the site consisted of very stiff to hard clayey Silt (MH) to an approximate depth of 7.5 feet, underlain by moderately hard Sandstone Rock to the explored depth of 17.5 feet. Auger refusal was encountered at a depth of 7.5 feet. The following table presents a summary of the existing soil conditions in Boring B-1.

Soil Profile Depth (ft)		Type of Soils (Soil Manual Classification)	*Soil Symbols	SPT N-Values bpf (blows per foot)
0	7.5	Very stiff to hard clayey Silt	MH	18 to Over 50
7.5	17.5	Moderately hard Sandstone Rock	Sandstone Rock	**RQD between 25% and 34%

\*Soil symbols are based in the Unified Soil Classification System (USCS) and the Soil and Rock Logging, Classification, and Presentation Manual (Caltrans 2010 ed.).  
\*\*RQD: Rock Quality Designation Index.

The encountered upper clayey silt soil layer is considered stiff in consistency with estimated unconfined compressive strength ( $q_u$ ) measurements between 2,000 and 7,000 psf. Natural moisture ( $WC_N$ ) content measurements were conducted on selected soil samples and ranged between 11.0% to 20.5%.

For Boring B-1 an NQ rock core was obtained from approximately 7.5 to 17.5 feet. The encountered Sandstone rock was manually described as medium coarse grained textured, red/brown, moderately hard, moderately weathered, and intensely fractured. The Percent Recovery (Rec.) and Rock Quality Designation (RQD) Index obtained during rock core drilling are described in the following table. Based on the RQD values obtained, the rock encountered at the site is considered very poor to poor rock quality.

Boring Log	Core Length Run Depth (feet)	Percent Recovery (Rec.) (inches) / (%)	Rock Quality Designation (RQD) Index (inches) / (%)
B-1	7.5 to 12.5	37'' / 62%	14.75'' / 25%
	12.5 to 17.5	54'' / 90%	20.25'' / 34%

\*Please refer to Appendix D for the Rock Quality Designation (RQD) Index table per ASTM D-6032.

Borings B-2 (Northwest), B-3 (Southwest), and B-4 (Northeast) were drilled near the locations of the proposed guy anchors. It is our understanding that these three borings were drilled for the evaluation of the subsurface conditions for the design of new guy anchors.

Borings B-2, B-3, and B-4 (Guy Anchors): In general, soils consisted of very stiff to hard clayey Silt (MH) to Auger refusal depths. Auger refusal was encountered at 7 feet in boring B-2, 6 feet in B-3, and 7.5 feet in boring B-4.

The SPT N-values within the described depths are shown on the attached boring logs and ranged between 17 and over 50 bpf in B-2, 26 to over 50 bpf in B-3, and 22 to over 50 bpf in B-4. The encountered upper clayey silt soil layers are considered very stiff to hard in consistency with estimated unconfined compressive strength (qu) measurements between 2,000 and 7,500 psf. Soil natural moisture was manually described as damp.

All final boring logs are shown in Appendix B.

## Groundwater Level Conditions

The table below shows the groundwater levels encountered at the time of drilling (ATD).

<b>Boring No.</b>	<b>Groundwater Levels Reported (ATD) (ft)</b>
B-1 (Center)	Not Encountered
B-2 (NW Guy anchor)	2 feet
B-3 (SW Guy anchor)	Not Encountered
B-4 (SE Guy anchor)	Not Encountered

It should be noted that groundwater level observations made within mostly cohesive soils during drilling could be misleading. It should be anticipated that the groundwater level will fluctuate due to seasonal climatic changes. To determine actual groundwater level measurements, groundwater levels should be measured using observation wells installed for prolonged periods.

## Laboratory Electrical Resistivity Test

A laboratory resistivity value of 9,353 ohms-cm was reported. A table with the laboratory test data is shown in Appendix C. It should be noted that the soil samples were saturated for this testing procedure. Based on the laboratory test results, most of the soil is rated “Mildly-Corrosive”.

## Foundation Recommendations

The subsurface conditions are suitable for support of the tower using a conventional shallow foundation system or a deep foundation system.

### Shallow Foundation System

For the case of a conventional shallow foundation the soils are capable of a maximum net allowable soil bearing pressure ( $q_{ALL}$ ) of 4,000 psf (pounds per square foot) at a minimum embedment depth of ( $D_f$ ) of 3.5 feet bgs. Total and differential settlement should be less than 1-inch and ½-inch, respectively. A safety factor (SF) of 3 and a wet soil unit weight ( $\gamma_{wet}$ ) of 115 pcf (pounds per cubic foot) was considered for soil bearing calculations.

The provided soil bearing pressure assumes the bottom of excavation would be dry and stable. The bottom of excavation should be proof rolled, observed, and inspected prior to placing any concrete. For more details, please refer to our Fill Placement Section.

### Tower Guy Anchors

We assume that the guy anchors will consist of a deadman or concrete blocks and that compacted backfill will be placed around the guy anchors to a density equivalent to at least 95% of the standard proctor maximum dry density ( $\gamma_{dmax}$ ). The following table presents our review of the subsurface conditions encountered in each boring at the proposed guy-anchor locations.

Boring No. (Guy Anchors)	Depth (feet)	*Soil Unit Weight (pcf)	Friction Angle (deg)	Cohesion (psf)	Earth Pressure Coefficients		
					$K_A$	$K_P$	$K_O$
B-2, B-3, and B-4	0 - 4	115	0	1,500	1.00	1.00	1.00
	4 - 7	120	0	3,500	1.00	1.00	1.00

\*Below the groundwater level designer should consider the buoyant unit weight ( $\gamma_b$ ) =  $\gamma_{wet} - \gamma_{water}$ .

Guy anchor concrete blocks should be founded at a minimum depth of foundation ( $D_f$ ) between 4 and 6 feet below existing grade elevations.

### Deep Foundation System

Based on our review of the subsurface conditions encountered in the boring, we offer the following average soil parameters for the design of the proposed drilled shafts at the tower center and guy anchor locations.

Boring Depth (feet)		*Unit Weight $\gamma_{wet} / \gamma_b$ (pcf)	Friction Angle $\phi$ (deg)	Soil Cohesion $C_u$ (psf)	$K_p$	Allowable Skin Friction $f_s$ (psf)	Allowable Bearing Pressure $q_{ALL}$ (psf)	Soil Modulus $K_H$ (pci)
<b>Boring B-1</b>								
0	4	115	0	1,500	1.00	-	-	-
4	7.5	120	0	3,500	1.00	560	-	125
7.5	12.5	150	0	8,000	1.00	1,200	10,000	415
12.5	17.5	150	0	10,000	1.00	1,500	15,000	620
<b>Borings B-2, B-3, and B-4</b>								
0	4	115	0	1,500	1.00	450	-	-
4	7	120	0	3,500	1.00	560	-	410
Notes: A safety factor of 2 is used for allowable skin friction ( $f_s$ ). A safety factor of 5 is used for allowable soil bearing pressure ( $q_{ALL}$ ). *Below the groundwater level designer should consider the buoyant unit weight ( $\gamma_b$ ) = $\gamma_{wet} - \gamma_{water}$ . Active earth pressure coefficient $K_A = \tan^2(45 - \phi/2) = 1/K_P$ . At rest earth pressure coefficient $K_O = 1 - \sin(\phi)$ .								

Proposed drilled shaft should be designed using a combination of point bearing and friction forces. Total drilled shaft foundation settlement should be limited to 0.50-inch or approximately 0.50% of the drilled shaft diameter (D). Final shaft diameter (D) and embedment length (L) will depend upon final tower loading conditions.

### Building Foundations

The proposed equipment building can be supported on a perimeter grade beam, spread footing or turndown slab foundation. For the design of the building foundation the soils are capable of a maximum net allowable soil bearing pressure ( $q_{ALL}$ ) of 2,000 psf. A minimum depth of foundation ( $D_f$ ) of 1.5 feet below existing grades elevations should be considered. Total and differential settlements should be less than 1/2-inch and 1/4-inch, respectively.

Ground floor slabs may be designed as conventional slabs on grade over the existing soils or on engineered compacted fill using a Modulus of Subgrade Reaction ( $K_s$ ) of 125 pci (pounds per cubic inch). Bearing pad should be prepared and compacted prior to placing any concrete. Contractors should verify the Fill Placement section of this report. For these foundations, ECA recommends a minimum concrete strength ( $f'c$ ) of 4,000 psi (pounds per square inch). We recommend a value of 150 pcf for concrete.

### Soil Site Class

Based on our site evaluation and the information provided by the 2018 International Building Code and TIA-222-H-2016, to perform a dynamic analysis the clients design engineer should consider that the soils at the site fall under a **Rock Profile and Site Class B**.

### Foundation Excavations

A groundwater level was encountered only in Boring B-2 and was not encountered in other 3 borings during drilling operations. Therefore, the prospective contractor *may need to consider* excavation dewatering.

**A moderately hard sandstone rock was encountered at the site in Boring B-1 at depth 7.5 feet bgs. The prospective contractor should consider specialized equipment for rock excavation and caisson drilling.**

To avoid softening of the shallow soils exposed at the foundation bearing level, excavations should not be left open for extended periods prior to placing reinforcing steel and concrete. If rain or freezing weather is expected, excavations should not be completed. Leaving the excavations at least 1-foot above final grade should protect the bearing soils from deterioration.

If the excavation must remain open overnight or if rainfall becomes imminent while the bearing soils are exposed, we recommend that a 2 to 4-inch thick "mud-mat" of "lean" (2,000 psi) concrete be placed on the bearing soils before the placement of reinforcing steel. If the bearing soils are softened by surface water intrusion or exposure, the softened soils must be removed from the foundation excavation bottom immediately prior to placement of concrete.

### Fill Placement

If required, borrow materials for fill, **unless otherwise specified**, should consist of essentially granular material (GW, GP, GM, GC, SW, SP or SM Unified Soil Classification System); **A-2-4 or better**, AASHTO Classification, as approved by the **Project Geotechnical Engineer**. These should be free from vegetation and should not contain rocks greater than 6 inches in size.

Any placed backfill required to attain finished grade should be placed in an engineered fashion with layers not exceeding 8- to 10-inch thick lifts and compacted to not less than 95% of the Standard Proctor Maximum dry density, as determined by method ASTM D-698. The soil moisture content should be close to the optimum moisture content. All required fills should meet the specified compaction criteria.

ECA does not know the capability of the surficial soil to support pavements. However, we suggest that the upper soils be replaced by granular fill in areas of heavy traffic to improve the subgrade support capabilities and moisture sensitivity.

Field density tests should be conducted at routine intervals as fill is being placed to verify that adequate compaction is achieved. Prior to placing any new fill, any soft or loose near surface soils

should be removed and the area proof-rolled with a heavy vehicle or a heavy compaction vibratory roller to confirm that any unsuitable soil conditions have been discovered.

#### Basis for Recommendations

The subsurface conditions encountered at the boring locations are shown on the Boring Logs in Appendix B. The Boring Logs represent our interpretation of the subsurface conditions based on the field log and visual examination of field samples by an engineer. The lines designating the interface between various strata on the Boring Logs represent the approximate interface locations. In addition, the transition between strata may be gradual. The water level shown on the Boring Log, if any, represents the condition only at the time of our exploration.

The recommendations contained herein are based in part on project information provided to us and only apply to the specific project and site discussed in this report. If the project information section in this report contains incorrect information or if additional information is available, please let us know so that we may review the validity of our recommendations.

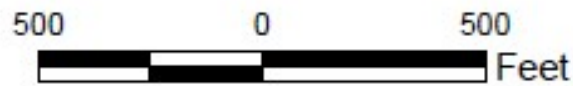
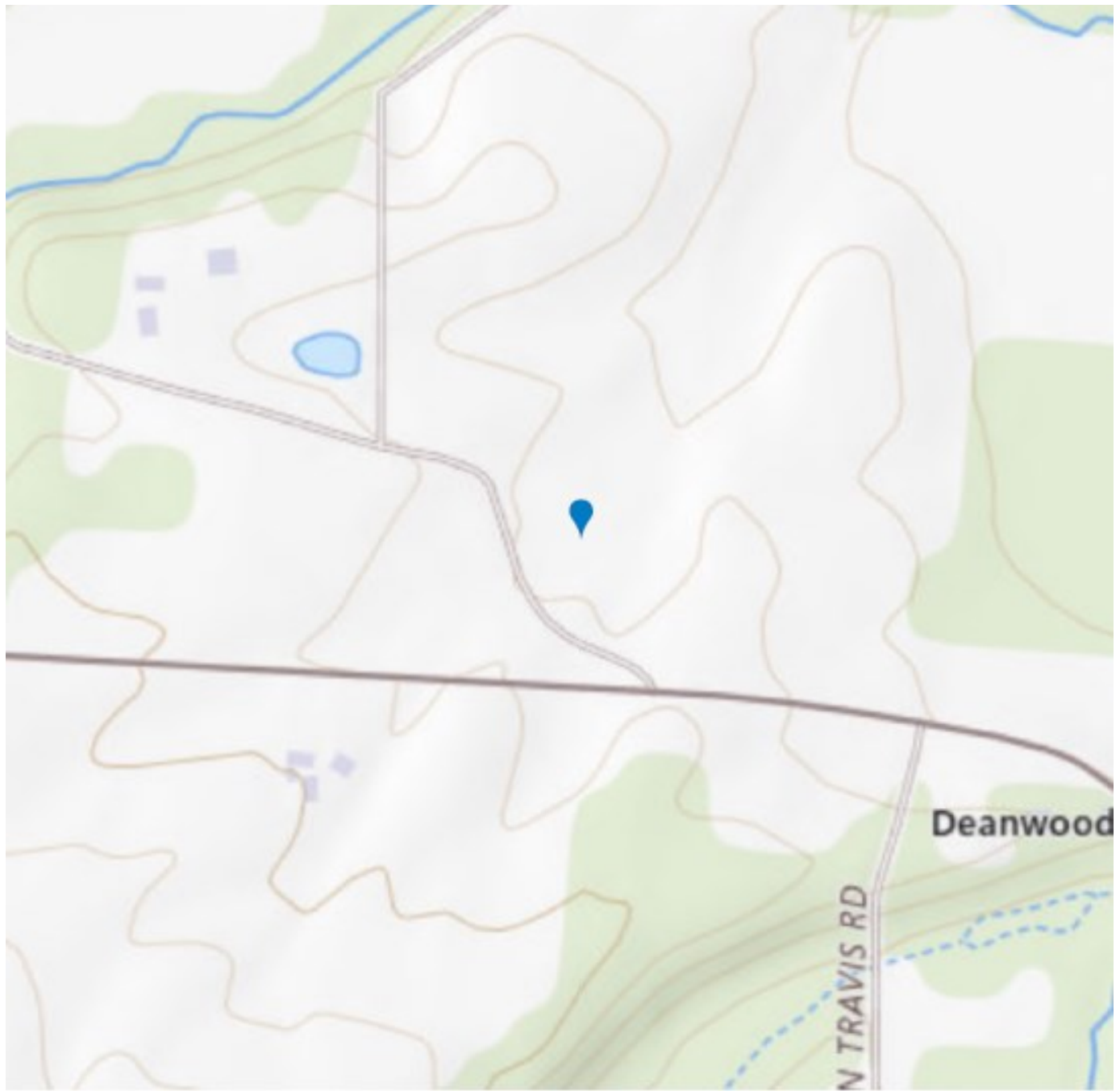
Regardless of the thoroughness of a geotechnical investigation, there is always a possibility that conditions between borings will be different from those at specific boring locations and that conditions will not be as anticipated by the designers or contractors. In addition, the construction process may itself alter soil conditions. Therefore, experienced geotechnical personnel should observe and document the construction procedures used and the conditions encountered. Unanticipated conditions and inadequate procedures should be reported to the design team along with timely recommendations to solve any problems created. ECA is best qualified to provide this service based on our familiarity with the project, the subsurface conditions, and the intent of the recommendations and design. We wish to remind you that we will store the soil samples for 30 days. The samples will then be discarded unless you request otherwise.

## **APPENDICES**

- Appendix A Figures
- Appendix B Boring Logs
- Appendix C Earth Resistivity Test Results
- Appendix D Rock Quality Designation (RQD) Index

# APPENDIX A

Figures



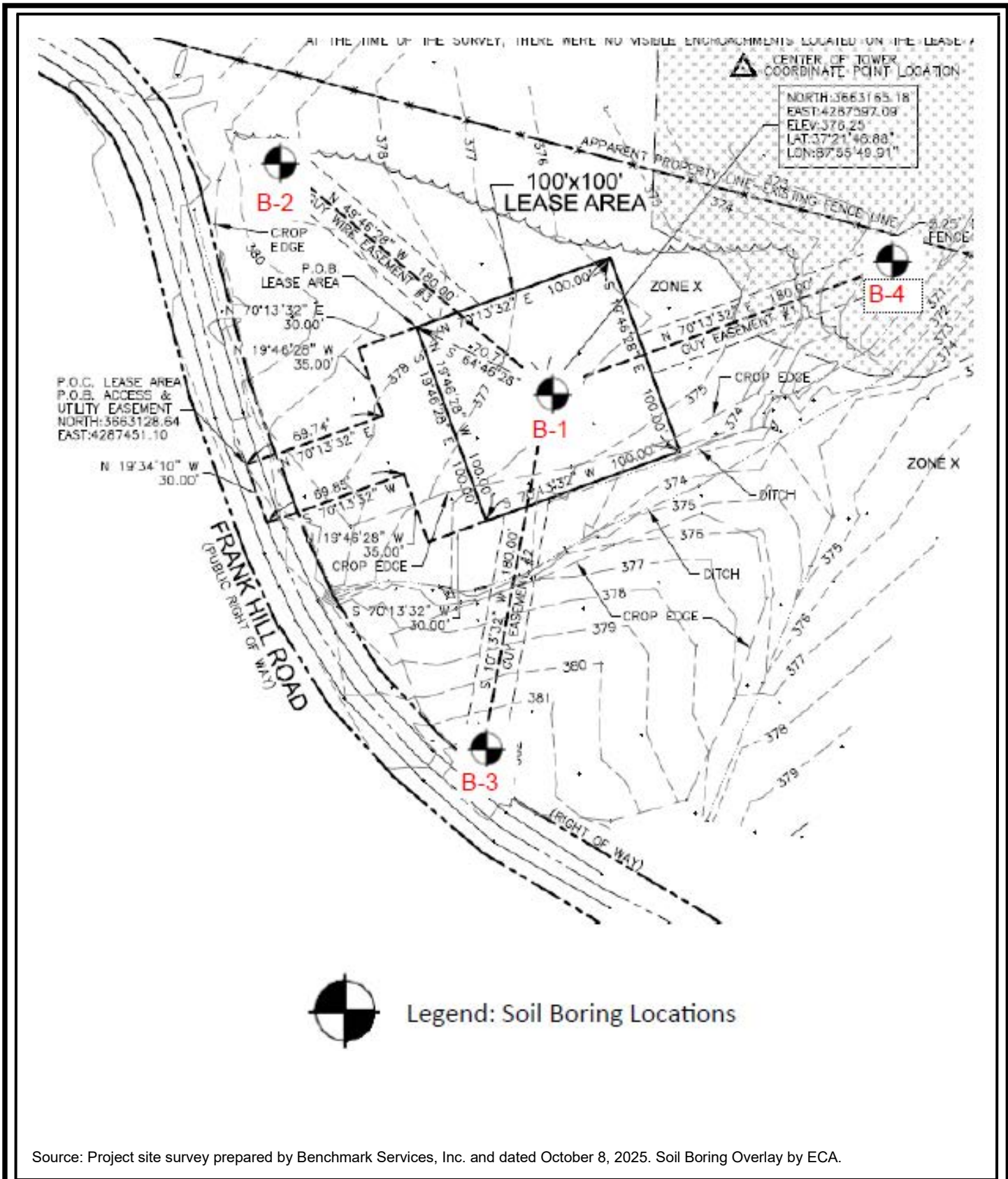
Source: Maxar, The National Map.



EV Gum Creek Rd (KY-1822)  
State Route 120  
Marion, Crittenden County, Kentucky  
Figure 1: Site Location Map



ECA Project No. 25-004489



Source: Project site survey prepared by Benchmark Services, Inc. and dated October 8, 2025. Soil Boring Overlay by ECA.



EV Gum Creek Rd (KY-1822)  
 State Route 120  
 Marion, Crittenden County, Kentucky  
 Figure 2: Boring Location Plan



ECA Project No. 25-004489

# APPENDIX B

## Boring Logs

Project: <b>EV Gum Creek Rd (KY-1822)</b>	Environmental Corp of America 1375 Union Hill Industrial Ct. Suite-A Alpharetta, GA 30004 (770) 667-2040	<b>Log of Boring B-1</b> <b>Sheet 1 of 1</b>
Project Location: <b>Marion, KY</b>		
Project Number: <b>25-004489</b>		

Date(s) Drilled: <b>12/22/2025</b>	Logged By: <b>A. Balakrishnan</b>	Checked By: <b>A. Balakrishnan</b>
Drilling Method: <b>HSA</b>	Drill Bit Size/Type: <b>2.25 inches</b>	Total Depth of Borehole: <b>17.5 feet bgs</b>
Drill Rig Type: <b>Track Rig</b>	Drilling Contractor: <b>SDS</b>	Approximate Surface Elevation: <b>376 feet AMSL</b>
Groundwater Level and Date Measured: <b>Not Encountered ATD</b>	Sampling Method(s): <b>SPT/CB</b>	Hammer Data: <b>140 Lbs hammer, rope and cathead</b>
Borehole Backfill: <b>Cuttings</b>	Location: <b>Marion, Crittenden County, Kentucky</b>	







Depth (feet)	Sample Number	Sample Type	Sampling Resistance blows/ft	SPT N Values	Rec (%) / RQD (%)	MATERIAL DESCRIPTION	Material Type	Graphic Log	Water Content, %	qu (tsf)	PH	LL, %	PI, %
0													
1	1		6-8-10	18		Tan/brown, very stiff, clayey Silt, damp	MH		-				
5	2		12-50/1"	50/1"		Same as above, hard, damp	MH		20.5				
	3		50/3"	50/3"		Same as above, hard, damp	MH		11.0				
						Auger refusal at 7.5 feet.							
10	4		-	-	62/25	Sandstone Rock, moderately hard, coarse grained, red/brown, moderately fractured, intensely weathered, dry			-				
15	5		-	-	90/34	Sandstone Rock, moderately hard, coarse grained, red/brown, moderately fractured, intensely weathered, dry			-				
						End of Boring at 17.5 feet.							

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Project: <b>EV Gum Creek Rd (KY-1822)</b>	Environmental Corp of America 1375 Union Hill Industrial Ct. Suite-A Alpharetta, GA 30004 (770) 667-2040	<b>Log of Boring B-2</b> <b>Sheet 1 of 1</b>
Project Location: <b>Marion, KY</b>		
Project Number: <b>25-004489</b>		

Date(s) Drilled <b>12/22/2025</b>	Logged By <b>A. Balakrishnan</b>	Checked By <b>A. Balakrishnan</b>
Drilling Method <b>HSA</b>	Drill Bit Size/Type <b>2.25 inches</b>	Total Depth of Borehole <b>7 feet bgs</b>
Drill Rig Type <b>Track Rig</b>	Drilling Contractor <b>SDS</b>	Approximate Surface Elevation <b>376 feet AMSL</b>
Groundwater Level and Date Measured <b>2 feet ATD</b>	Sampling Method(s) <b>SPT/CB</b>	Hammer Data <b>140 Lbs hammer, rope and cathead</b>
Borehole Backfill <b>Cuttings</b>	Location <b>Marion, Crittenden County, Kentucky</b>	





Depth (feet)	Sample Number	Sample Type	Sampling Resistance blows/ft	SPT N Values	Rec (%) / RQD (%)	MATERIAL DESCRIPTION	Material Type	Graphic Log	Water Content, %	qu (tsf)	PH	LL, %	PI, %
0													
1	1		6-8-9	17		Tan/brown, very stiff, clayey Silt, damp	MH						
5	2		50/3"	50/3"		Same as above, hard, damp	MH		29.3				
5	3		50/1"	50/1"		Same as above, hard, damp	MH						
						Auger refusal at 7 feet. End of Boring at 7 feet.							
10													
15													

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Project: <b>EV Gum Creek Rd (KY-1822)</b>	Environmental Corp of America 1375 Union Hill Industrial Ct. Suite-A Alpharetta, GA 30004 (770) 667-2040	<b>Log of Boring B-3</b> <b>Sheet 1 of 1</b>
Project Location: <b>Marion, KY</b>		
Project Number: <b>25-004489</b>		







Date(s) Drilled <b>12/22/2025</b>	Logged By <b>A. Balakrishnan</b>	Checked By <b>A. Balakrishnan</b>
Drilling Method <b>HSA</b>	Drill Bit Size/Type <b>2.25 inches</b>	Total Depth of Borehole <b>6 feet bgs</b>
Drill Rig Type <b>Track Rig</b>	Drilling Contractor <b>SDS</b>	Approximate Surface Elevation <b>376 feet AMSL</b>
Groundwater Level and Date Measured <b>Not Encountered ATD</b>	Sampling Method(s) <b>SPT/CB</b>	Hammer Data <b>140 Lbs hammer, rope and cathead</b>
Borehole Backfill <b>Cuttings</b>	Location <b>Marion, Crittenden County, Kentucky</b>	

Depth (feet)	Sample Number	Sample Type	Sampling Resistance blows/ft	SPT N Values	Rec (%) / RQD (%)	MATERIAL DESCRIPTION	Material Type	Graphic Log	Water Content, %	qu (tsf)	PH	LL, %	PI, %
0	1		10-12-14	26		Tan/brown, very stiff, clayey Silt, damp	MH						
5	2		50/3"	50/3"		Same as above, hard, damp Auger refusal at 6 feet. End of Boring at 6 feet.	MH		18.0				

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Project: <b>EV Gum Creek Rd (KY-1822)</b>	Environmental Corp of America 1375 Union Hill Industrial Ct. Suite-A Alpharetta, GA 30004 (770) 667-2040	<b>Log of Boring B-4</b> <b>Sheet 1 of 1</b>
Project Location: <b>Marion, KY</b>		
Project Number: <b>25-004489</b>		

Date(s) Drilled <b>12/22/2025</b>	Logged By <b>A. Balakrishnan</b>	Checked By <b>A. Balakrishnan</b>
Drilling Method <b>HSA</b>	Drill Bit Size/Type <b>2.25 inches</b>	Total Depth of Borehole <b>7 feet bgs</b>
Drill Rig Type <b>Track Rig</b>	Drilling Contractor <b>SDS</b>	Approximate Surface Elevation <b>376 feet AMSL</b>
Groundwater Level and Date Measured <b>Not Encountered ATD</b>	Sampling Method(s) <b>SPT/CB</b>	Hammer Data <b>140 Lbs hammer, rope and cathead</b>
Borehole Backfill <b>Cuttings</b>	Location <b>Marion, Crittenden County, Kentucky</b>	

Depth (feet)	Sample Number	Sample Type	Sampling Resistance blows/ft	SPT N Values	Rec (%) / RQD (%)	MATERIAL DESCRIPTION	Material Type	Graphic Log	Water Content, %	qu (tsf)	PH	LL, %	PI, %
0													
1	1		6-10-12	22		Tan/brown, very stiff, clayey Silt, damp	MH		-				
2	2		50/3"	50/3"		Same as above, hard, damp	MH		11.9				
3	3		50/2"	50/2"		Same as above, hard, damp Auger refusal at 7 feet.	MH		-				
						End of Boring at 7 feet.							
10													
15													

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Project: **EV Gum Creek Rd (KY-1822)**  
 Project Location: **Marion, KY**  
 Project Number: **25-004489**

Environmental Corp of America  
 1375 Union Hill Industrial Ct. Suite-A  
 Alpharetta, GA 30004  
 (770) 667-2040

## Key to Log of Boring Sheet 1 of 1

Depth (feet)	Sample Number	Sample Type	Sampling Resistance blows/ft	SPT N Values	Rec (%) / RQD (%)	MATERIAL DESCRIPTION	Material Type	Graphic Log	Water Content, %	qu (tsf)	PH	LL, %	PI, %
1	2	3	4	5	6	7	8	9	10	11	12	13	14

### COLUMN DESCRIPTIONS

- |   |  |
|---|--|
| <p><b>1</b> Depth (feet): Depth in feet below the ground surface.</p> <p><b>2</b> Sample Number: Sample identification number.</p> <p><b>3</b> Sample Type: Type of soil sample collected at the depth interval shown.</p> <p><b>4</b> Sampling Resistance, blows/ft: Number of blows to advance driven sampler one foot (or distance shown) beyond seating interval using the hammer identified on the boring log.</p> <p><b>5</b> SPT N Values: SPT N Values</p> <p><b>6</b> Rec (%) / RQD (%): Core Recovery(%) &amp; Rock Quality Designation (%)</p> <p><b>7</b> MATERIAL DESCRIPTION: Description of material encountered. May include consistency, moisture, color, and other descriptive text.</p> <p><b>8</b> Material Type: Type of material encountered.</p> | <p><b>9</b> Graphic Log: Graphic depiction of the subsurface material encountered.</p> <p><b>10</b> Water Content, %: Water content of the soil sample, expressed as percentage of dry weight of sample.</p> <p><b>11</b> qu (tsf): Unconfined Compression test</p> <p><b>12</b> PH : Soil PH Tested</p> <p><b>13</b> LL, %: Liquid Limit, expressed as a water content.</p> <p><b>14</b> PI, %: Plasticity Index, expressed as a water content.</p> |
|---|--|

### FIELD AND LABORATORY TEST ABBREVIATIONS

- |   |  |
|---|--|
| <p>CHEM: Chemical tests to assess corrosivity</p> <p>COMP: Compaction test</p> <p>CONS: One-dimensional consolidation test</p> <p>LL: Liquid Limit, percent</p> | <p>PI: Plasticity Index, percent</p> <p>SA: Sieve analysis (percent passing No. 200 Sieve)</p> <p>UC: Unconfined compressive strength test, Qu, in ksf</p> <p>WA: Wash sieve (percent passing No. 200 Sieve)</p> |
|---|--|

### MATERIAL GRAPHIC SYMBOLS

- |                                    |           |
|------------------------------------|-----------|
| SILT, SILT w/SAND, SANDY SILT (MH) | Sandstone |
|------------------------------------|-----------|

### TYPICAL SAMPLER GRAPHIC SYMBOLS

- |  |   |  |
|--|---|--|
| Auger sampler<br>Bulk Sample<br>3-inch-OD California w/ brass rings<br>CME Sampler | Grab Sample<br>2.5-inch-OD Modified California w/ brass liners<br>NQ Rock sampler<br>Pitcher Sample | 2-inch-OD unlined split spoon (SPT)<br>Shelby Tube (Thin-walled, fixed head) |
|--|---|--|

### OTHER GRAPHIC SYMBOLS

- Water level (at time of drilling, ATD)
- Water level (after waiting, AW)
- Minor change in material properties within a stratum
- Inferred/gradational contact between strata
- Queried contact between strata

### GENERAL NOTES

- 1: Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests.
- 2: Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.

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# APPENDIX C

## Earth Resistivity Test Results

## APPENDIX C

### Laboratory Earth Resistivity Test Data per ASTM G-57

Site Name: EV Gum Creek Rd (KY-1822)

ECA Project #: 25-004489

Test Date: January 9, 2026

Test No.	Lab Meter Reading (R)	Calculated Resistivity (Ohms-cm)
Test Trial #1	7.132	9,353
Test Trial #2	7.132	9,353
Test Trial #3	7.132	9,353
Test Trial #4	7.132	9,353
<b>*Average Reported Lab ER Value</b>		<b>9,353</b>
*The lab resistivity test was performed using mixed samples within the upper 6 feet from all four borings.		

# APPENDIX D

## Rock Quality Designation (RQD) Index

**APPENDIX D**  
**Rock Quality Designation (RQD) Index**  
**Environmental Corporation of America (ECA)**

ECA Project Name: EV Gum Creek Rd (KY-1822)

ECA Project No. 25-004489

<b>Rock Quality Designation, RQD (%)</b>	<b>*Description of Rock Quality</b>
0-25	Very Poor
25-50	Poor
50-75	Fair
75-90	Good
90-100	Excellent
*Per ASTM D-6032.	

***KY-1822 | EV GUM CREEK ROAD - Directions to WCF Site***

From the Crittendon County Clerk, head East on Industrial Drive. In +/- 0.2 miles, turn left onto South Main Street. In +/- 1.2 miles turn right onto KY-120 \ E Bellville Street. Continue to follow KY-120 East where site will be on the left in +/- 8.8 miles.

Prepared by: Clark, Quinn, Moses, Scott & Grahn, LLP | 317-631-1321

## OPTION AND GROUND LEASE AGREEMENT

THIS OPTION AND GROUND LEASE AGREEMENT ("**Agreement**") is made and entered into as of the latter signature date hereto (the "**Effective Date**"), by and between CHARLES BAKER (successor-in-interest to Ida Baker since April 14, 1992 per that Commonwealth of Kentucky Certificate of Death #09315), with a mailing address of 255 Fredonia Quarry Road, Fredonia, KY 42411 ("**Lessor**"); and APC TOWERS IV, LLC, a Delaware limited liability company, with a mailing address of 8601 Six Forks Road, Suite 250, Raleigh, NC 27615 ("**Lessee**").

### RECITALS

WHEREAS, Lessor is the owner of that certain parcel of land located at State Route 120, Marion KY 42064, also known as parcel number 101-00-00-017.00, as more specifically described on **Exhibit A** hereto (the "**Property**"); and

WHEREAS, Lessor desires to grant to Lessee, and Lessee desires to obtain from Lessor an option to lease from Lessor a portion of the Property comprised of approximately 10,000 square feet of ground space (the "**Premises**"), together with an access easement for ingress and egress and the installation and maintenance of utilities (the easements collectively referred to as the "**Easements**") both being approximately located as shown on **Exhibit B** (the Premises and the Easements are collectively referred to herein as the "**Site**"), for the purpose of establishing and maintaining a communications facility for Lessee's use and that of its subtenants, licensees and customers.

### AGREEMENT

NOW, THEREFORE, in consideration of the foregoing premises, the mutual covenants and promises contained herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Lessor and Lessee agree as follows.

#### 1. Option to Lease.

- (a) In consideration of the payment of [REDACTED] by Lessee to Lessor, Lessor hereby grants to Lessee an exclusive and irrevocable option to lease the Premises and use the Easements on the terms and conditions set forth herein below (the "**Option**"). The Option has a term of twenty-four (24) months, commencing on the Effective Date and ending as of midnight on the date before the first anniversary of such date (the "**Option Period**"). Lessee has the right to extend the Option for one (1) additional term of twenty-four (24) months (the "**Extended Option Period**"). The Option will automatically be extended for the Extended Option Period unless Lessee provides Lessor with written notice of Lessee's intent not to extend the Option at least ninety (90) days prior to the expiration of the Option Period or the Extended Option Period, as applicable. Lessee will pay Lessor an additional payment of [REDACTED] within thirty (30) days of the commencement of the Extended Option Period.
- (b) During the Option Period, the Extended Option Period and the Term, Lessor agrees to cooperate with Lessee in obtaining, at Lessee's expense but for no additional consideration payable to Lessor, all licenses and permits or authorizations required for Lessee's use of the Site from all applicable government and/or regulatory entities (the "**Government Approvals**"). Lessor hereby irrevocably appoints Lessee or Lessee's agent as Lessor's agent to file applications on behalf of Lessor with federal, state and local governmental authorities which applications relate to Lessee's use of the Site, including but not limited to land use and zoning applications. During

the Option Period, Extended Option Period and the Term, Lessor agrees to cooperate with Lessee, at no cost to Lessor but for no additional consideration payable to Lessor, to obtain a title report, zoning approvals and variances, conditional-use permits and perform surveys, soils tests, perform RF engineering studies and other engineering procedures or environmental investigations on, under and over the Property, necessary to determine whether Lessee's use of the Site will be compatible with the Lessee's engineering specifications, intended use, system design, operations and Government Approvals. During the Option Period, Extended Option Period and the Term, Lessor agrees to provide Lessee, at no cost to Lessor but for no additional consideration payable to Lessor, with any documents, materials or other instruments required or requested for Lessee to secure a title policy for the Site, which may include, among others, and each as applicable, the following: (i) a certified copy of the formation documents of Lessor and all amendments thereto from the state in which Lessor is organized; (ii) a certificate of good standing for the Lessor issued by the state where the Lessor is organized, not dated later than five (5) business days from the date requested by Lessee; (iii) a true and complete copy of the names of any shareholders, members or partners of the Lessor; (iv) true and complete copy of any operating agreement, partnership agreement, bylaws or similar document and all amendments thereto together certified as accurate and complete by an officer, director, partner, member or manager of Lessor; (v) a copy of the authorizing resolutions or consent of Lessor's governing body authorizing Lessor to enter into, comply with and perform under this Agreement; and (vi) such other documents that may be reasonably required or requested. Lessor's provision of the foregoing documents, materials or other instruments required for Lessee to secure a title policy for the Site shall be a prerequisite for the payment of any Rent or other monetary amounts payable by Lessee under this Agreement, and notwithstanding anything to the contrary herein and in addition to Lessee's rights and remedies otherwise provided in this Agreement, Lessee shall have no obligation to make any rental or other payments to Lessor until such items have been supplied to Lessee to the reasonable satisfaction of Lessee and Lessee's title insurer.

(c) During the Option Period and any Extended Option Period, Lessee may exercise the Option by written notice to Lessor.

**2. Premises.** Subject to the terms and conditions of this Agreement, upon Lessee's exercise of the Option Lessor hereby leases to Lessee and Lessee hereby leases from Lessor the Premises together with the use of the Easements for the construction, modification, operation and maintenance of the Telecommunications Facilities (as defined in Section 7(a)).

**3. Permitted Use.** The Site may be used by Lessee for the construction, modification, operation, maintenance, repair, replacement and removal of the Telecommunications Facilities (the "**Permitted Use**"). Lessor may not commit any action or omission that would adversely affect the status of the Site with respect to the Permitted Use.

**4. Term.** The initial term of this Agreement ("**Initial Term**") is five (5) years, beginning on the date Lessee exercises the Option ("**Commencement Date**"), and expiring at midnight on the day prior to the fifth (5<sup>th</sup>) anniversary of the Commencement Date. Lessee has the right to extend the term of Agreement for nine (9) additional five (5) year terms (each a "**Renewal Term**"). Each Renewal Term will be on the same terms and conditions set forth in this Agreement. This Agreement will automatically renew for each successive Renewal Term unless Lessee notifies Lessor in writing of Lessee's intention not to renew the Term at least thirty (30) days prior to the expiration of the then current Term. The Initial Term and Renewal Terms are collectively referred to herein as the "**Term**".

**5. Rent.** Lessee shall pay Lessor an initial monthly rent of [REDACTED] (“Rent”). The Rent is due and payable in advance on the first day of each month during the Term commencing as of the Rent Commencement Date. The “*Rent Commencement Date*” is the earlier of (i) the date of issuance of a certificate of completion (or comparable certificate) from the applicable governmental authority for the Telecommunications Facilities or (ii) ninety (90) days from the Commencement Date. Rent will be prorated for any partial months, including the months in which the Rent Commencement Date and the expiration or termination of the Term occur. As a condition precedent to Lessee’s obligation to remit any payments provided for under this Agreement, Lessor (as well as any successor to Lessor’s interest in this Agreement or to such payments) agrees to provide Lessee with a completed IRS Form W-9 upon execution of this Agreement and at such other times as may be reasonably requested by Lessee, including any change in Lessor’s name or address. If Lessee elects to remit payments payable under this Agreement by electronic funds transfer, Lessor agrees to provide to Lessee bank routing information for such purpose upon request of Lessee. The Rent will increase on the first day of each Renewal Term, by an amount equal to [REDACTED] of the Rent in effect immediately prior to the increase.

**6. Interference.** Lessor may not use, nor may Lessor permit its tenants, licensees, employees, invitees or agents to use any portion of the Property in any way that interferes with Lessee’s Permitted Use of the Site. Such interference will be a material breach of this Agreement by Lessor and Lessor shall have the responsibility to terminate the interference immediately upon written notice from Lessee. Anything to the contrary in this Agreement notwithstanding, the cure periods provided for in Section 10 will not be applicable to failure by Lessor to fulfill its obligations under this Section 6. If any interference does not cease or is not rectified as soon as possible, but in no event longer than twenty-four (24) hours after Lessee’s written notice to Lessor, Lessor acknowledges that the continuing interference will cause irreparable injury to Lessee, as well as Lessee’s sublessees and licensees, and Lessee has the right, in addition to any other rights that it may have at law or in equity, to bring action to enjoin such interference or to terminate this Lease immediately upon notice to Lessor. Lessor represents and warrants that it has not sold, leased, licensed or otherwise granted rights in the Property that in any way interfere or could reasonably be likely to interfere with Lessee’s rights to use Site for the Permitted Use.

**7. Construction of Improvements.**

- (a) Lessee may, from time to time during the Term, at its expense, construct, install, operate, maintain, replace, add to, upgrade and remove its (as well as its subtenants, licensees and customers) radio transmitting and receiving antennae, communications equipment, related cables, wires, conduits, air conditioning equipment and other appurtenances, as well as a tower(s) and building(s) or cabinets to house such equipment (collectively, the “*Telecommunications Facilities*”). Although the Telecommunications Facilities may become fixtures under applicable law, they will remain solely the property of Lessee and Lessee’s subtenants, licensees and customers, and Lessee (and its subtenants, licensees and customers) has the right to remove any or all of them from time to time during the Term and at the expiration or earlier termination of the Term. If the tower to be constructed by Lessee on the Premises is a guyed tower, Lessor also grants Lessee easements in, over, across and through the Property or any other real property owned by Lessor as may be necessary to Tenant during the Initial Term and any Renewal Terms of this Agreement for the installation and maintenance and removal of and reasonable access to guy wires and guy wire anchors, which may be located outside of the Site.
- (b) The Telecommunications Facilities shall be initially configured as generally set forth in Exhibit C, subject to change by Lessee consistent with Section 7(a).

- (c) Lessee is solely responsible for operations, maintenance, repair and insuring of the equipment owned, constructed and installed by Lessee on the Premises.
- (d) Lessor hereby grants Lessee a non-exclusive, unimpaired landscape easement which includes the right to install vegetation and screening around the exterior of the perimeter of the Premises as necessary to meet the applicable landscaping and buffering requirements of applicable land use laws, rules and regulations, if and when such placement should ever be required (the "*Landscape Easement*").
- (e) Lessee, at its sole discretion, may, without any need to obtain the consent of Lessor, license or sublease all or a portion of the Site and/or the Telecommunications Facilities.
- (f) Lessee agrees to use good faith efforts not to damage the crops of the Lessor during the construction of the Facility. If despite such efforts Lessee causes damage to such crops, Lessor must notify Lessee of such damage within thirty (30) days and include in such notice reasonable documentation substantiating the damage. Within thirty (30) days of Lessee's receipt of the foregoing notice, Lessee will remit payment to Lessor in an amount that is equivalent to the fair market value of the damaged crop.

**8. Access.** During the Term, ingress and egress to the Premises is hereby granted by Lessor to Lessee and its subtenants, licensees and customers, and each of such party's agents, contractors and subcontractors, 24 hours a day, 365 days per year basis. This ingress and egress shall include the nonexclusive right to and from the Premises, over and across the Property and an access way from nearby public streets and driveways and parking rights for personnel and equipment. Lessee also has a nonexclusive right of way over and across the Property as necessary for the installation, running, servicing and maintenance of electrical power and other utilities necessary to serve the Telecommunications Facilities.

**9. Utilities.**

- (a) Lessee has the right to install utilities (including without limitation communications services and power) at Lessee's expense, and to improve the present utilities, if any, on the Premises. Lessee shall, wherever practical, install separate meters for utilities used on the Premises.
- (b) Lessee may utilize the Easements for ingress, egress, and access to the Premises as may be required for the construction, installation and maintenance by the appropriate utility companies for the purpose of servicing the Telecommunications Facilities. In addition to Lessee and its sublessees and licensees, Lessee may grant the right to utilize the Easements to any utility servicing the Site. Lessor agrees to execute, at no cost to Lessee a utility easement between Lessor and any such utility provider, if reasonably necessary.

**10. Default.** Any breach of a material term hereof that is not cured within thirty (30) days from receipt of written notice from the non-breaching party shall constitute a "*Default*"; provided, however, that if efforts to cure such breach are commenced within said 30-day period and thereafter diligently prosecuted to completion, such period shall be extended for a period of time not to exceed six (6) months. The foregoing notwithstanding, any monetary breach not cured within fifteen (15) days from receipt of written notice thereof from the other party shall constitute a Default by the breaching party.

**11. Termination.**

- (a) In addition to other termination rights contained in this Agreement, this Agreement may be terminated upon written notice from the non-breaching party to the breaching party upon a Default and as otherwise provided in this section.
- (b) Lessee may terminate this Agreement upon written notice to Lessor if Lessee determines, in Lessee's sole discretion, that the results of any studies, reports, and/or applications for Governmental Approvals contemplated under Section 1(b) of this Agreement are unacceptable.
- (c) Lessee may terminate this Agreement upon thirty (30) days prior written notice to Lessor, if (i) Lessee determines that the Premises are technologically unsuitable, in Lessee's reasonable opinion, for the operation of the Telecommunications Facilities, including but not limited to unacceptable radio signal interference and any addition, alteration or new construction on, adjacent to or in the vicinity of the Premises or the Property that blocks, either partially or totally, transmission or receiving paths used by any of the Telecommunications Facilities; (ii) any Governmental Approval that Lessee reasonably deems necessary or convenient for the construction, operation, maintenance, reconstruction, modification, addition to or removal of the Telecommunications Facilities is not, in Lessee's sole discretion, reasonably obtainable or maintainable in the future; (iii) Lessee determines, in Lessee's commercially reasonable judgment, that that the Premises cease to be economically viable as a telecommunications site; or (iv) Hazardous Substances (as defined in Section 14) are or become present on the Property in violation of Environmental Laws (as defined in Section 14).

**12. Condemnation.** If all or any part of the Premises or any portion of the Easements, or any roadway to the Premises is taken by eminent domain or other action by any governmental or quasi-governmental body having the legal right to take said lands, and if said taking in the sole discretion of Lessee renders the Premises unsuitable for its intended purpose, then at Lessee's option, Lessee may terminate this Agreement as of the date the title vests in the condemning authority. Lessor and Lessee will share in the condemnation proceeds in proportion to the values of their respective interests in the Site (which for Lessee includes, where applicable, the value of the Telecommunication Facilities, moving expenses, prepaid rent and business dislocation expenses). If Lessee does not terminate this Agreement as provided in this section, this Agreement shall remain in effect, but the Rent shall be reduced by the amount that bears the same proportion to the Rent immediately prior to the partial taking which was applicable to the Premises immediately prior to such taking and thereafter the "Premises" will be deemed to be the remaining portion of the initial Premises.

**13. Indemnification.**

- (a) Lessor, its heirs, grantees, successors, and assigns shall indemnify and defend Lessee from and against any claims, obligations, liabilities, costs, demands, damages, expenses, suits or causes of action, including costs and reasonable attorney's fees, which may arise out of (i) any injury to or death of any person; or (ii) any damage to property, if such injury, death or damage arises out of or is attributable to or results from the acts or omissions of Lessor, or Lessor's principals, employees, invitees, agents or independent contractors. Lessee, its grantees, successors, and assigns shall indemnify and defend Lessor from and against any claims, obligations, liabilities, costs, demands, damages, expenses, suits or causes of action, including costs and reasonable attorney's fees, which may arise out of (i) any injury to or death of any person; or (ii) any damage to property, if such injury, death or damage arises out of or is attributable to or results from the negligent acts or omissions of Lessee, or Lessee's employees, agents or independent contractors.

- (b) If either party is entitled to indemnification and defense ("*Indemnified Party*") from the other party ("*Indemnifying Party*") pursuant to this Agreement, the Indemnified Party shall notify the Indemnifying Party promptly, in writing, of any claims by any person for which the Indemnified Party alleges that the Indemnifying Party is responsible hereunder and tender the defense of such claim to the Indemnifying Party. The Indemnified Party shall fully cooperate with the defense or settlement of such claim. The Indemnifying Party shall not be liable under this Agreement for settlements by the Indemnified Party of any claim unless the Indemnifying Party has approved the settlement in advance (such approval not to be unreasonably withheld, conditioned or delayed) or unless the defense of the claim has been tendered to the Indemnifying Party, in writing, and the Indemnifying Party has failed promptly to undertake the defense. This Section 13 shall survive the termination or expiration of this Agreement.

**14. Hazardous Substances.** Lessor represents and warrants to Lessee that Lessor: (i) is not presently engaged in, (ii) does not presently have actual knowledge of, (iii) has not at any time in the past engaged in, and (iv) has no actual knowledge that any third person or entity has engaged in or permitted any operations or activities upon, or any use or occupancy of, the Premises, or any portion of the Property, for the purpose of, or in any way involving the handling, manufacturing, treatment, storage, use, transportation, spillage, leakage, dumping, discharge or disposal (whether legal or illegal), accidental or intentional, of any hazardous substances, materials or wastes ("*Hazardous Substances*") regulated under any local, state, or federal law pertaining to the environment, public health or safety or the handling, manufacturing, treatment storage, use, transportation, spillage, leakage, dumping, discharge or disposal of Hazardous Substances ("*Environmental Laws*"). Lessor indemnifies and defends Lessee from and against any and all claims of liability under any Environmental Laws for Hazardous Substances which were handled, manufactured, treated, stored, used, transported, spilled, leaked, dumped, discharged, disposed of or otherwise introduced into the Property, except for claims arising in whole or in any part out of Lessee's use or occupancy of the Premises. The indemnity obligations contained in this Section 14 shall survive the termination or expiration of this Agreement.

**15. Insurance.** Lessee will carry during the term of the Agreement the following insurance with customary coverage and exclusions: (i) bodily injury: \$1,000,000.00 for injury to any one person and \$2,000,000.00 for all injuries sustained by more than one person in any one occurrence; and (ii) property damage: full replacement costs of Lessee's property. Lessee agrees to furnish Lessor with certificates of insurance certifying that Lessee has in force and effect the above specified insurance. Lessee shall have Lessor named as additional insured on all policies obtained or maintained by Lessee pursuant to this Section 15, except for workers' compensation policies. Lessor and Lessee mutually covenant and agree that each party, in connection with insurance policies required to be furnished in accordance with the terms of this Agreement, or in connection with insurance policies which they obtain insuring such insurable interest as Lessor or Lessee may have in its own properties, whether personal or real, shall expressly waive any right of subrogation on the part of the insurer against the Lessor or Lessee as the same may be applicable, which right to the extent not prohibited or violative of any such policy is hereby expressly waived. Lessor and Lessee each agree to seek recovery based solely on insurance policies as set forth above, provided such policies are in effect, and each mutually waive all right of recovery against each other, their agents, or employees for any loss, damage or injury of any nature whatsoever to property or person except to the extent either party is required by this Agreement to carry insurance.

**16. Taxes.** Lessee shall pay any personal property taxes assessed on or attributable to the Telecommunications Facilities. Lessor shall pay when due all real property taxes and all other fees and assessments attributable to the Property, Premises and Easements. Lessee will pay to Lessor within thirty (30) days from Lessor's request, any increase in Lessor's real property taxes which Lessor demonstrates, to Lessee's satisfaction, is directly and solely attributable to any improvements to the Site made by Lessee. If Lessor fails to pay when due any taxes affecting the Property or the Site, Lessee shall have the right, but not

the obligation, to pay such taxes and (i) deduct the full amount of the taxes paid by Lessee on Lessor's behalf from future installments of Rent, or (ii) collect such taxes by any lawful means.

**17. Quiet Enjoyment, Title and Authority.**

- (a) During the Term, Lessee may peaceably and quietly hold and enjoy the Premises, free from disturbance from any person claiming by, through or under Lessor, subject only to those matters of title of record as of the Effective Date.
- (b) Lessor covenants and warrants to Lessee that: (i) Lessor has full right, power and authority to execute this Agreement; (ii) Lessor has good and unencumbered title to the Property, free and clear of any liens or mortgages, except those disclosed to Lessee and of record as of the Effective Date, that will not interfere with Lessee's rights to or use of the Premises; (iii) the execution and performance of this Agreement will not violate any laws, ordinances, covenants, or the provisions of any mortgage, lease, or other agreement binding on Lessor.
- (c) Lessor agrees that, during the Option Period, Extended Option Period and the Term, Lessee will have the exclusive right to lease the Property or any portion thereof from the Lessor for the operation of antennae and telecommunications facilities providing transmission and receiving facilities for wireless providers and users, and that Lessor will not grant a lease, sublease, or other license or right to use any portion of the Property, or any other adjacent property owned by Lessor, to any other party for operation of antenna and/or telecommunications facilities.

**18. Notices.**

- (a) All notices hereunder must be in writing and shall be deemed validly given if sent by hand delivery, a reputable national overnight courier service (such as FedEx or United Parcel Service), or by certified mail, postage prepaid, return receipt requested, to the address shown below (or to any other address that the party to be notified may designate from time to time by written notice to the other party).

If to Lessee to:      APC Towers IV, LLC  
8601 Six Forks Road, Suite 250  
Raleigh, NC 27615  
Attention: Daniel C. Agresta III, President & CEO  
**Ref. Site ID: KY-1822**

Telephone: (919) 324-1922 *(included for information purposes only)*  
Email: dagresta@apctowers.com *(included for information purposes only)*

If to Lessor to:      Charles Baker c/o Nicky Baker  
255 Fredonia Quarry Road  
Fredonia, KY 42411  
**Ref. Site ID: KY-1822**

Telephone (Nicky Baker): 270-963-0156 *(included for information purposes only)*  
Email (Nicky Baker): gg baker@gmail.com *(included for information purposes only)*

- (b) If there is a change in ownership of the Property and Lessor's agreement is assigned to another party, then within ten (10) days of such transfer, Lessor or its successor will send copies of the documents listed below in this subsection (b) to Lessee. Until Lessee receives all such

documents, Lessee shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement.

- i. Old deed to Property
- ii. New deed to Property
- iii. Bill of Sale or Transfer
- iv. Current Tax Bill
- v. New IRS Form W-9
- vi. Full contact (information purposes only and not for notices) for new Lessor including phone number(s)

**19. Estoppel, Non-Disturbance and Attornment.**

- (a) Lessor will, from time to time, upon not less than ten (10) days prior written notice from Lessee, execute and deliver to Lessee a written estoppel certificate certifying that as of the date of the certification: (i) this Agreement is a valid enforceable agreement, presently in full force and effect; (ii) whether Lessor has any knowledge of any default or breach by Lessee under any of the terms, conditions, or covenants of this Agreement; (iii) the Term (its commencement and termination dates) and the term of any option or renewal periods granted to the Lessee to extend the Term; (iv) the amount of the then-current Rent payable under the Agreement; (v) attached to the certification is a true and correct copy of the Agreement and all amendments thereto, (vi) and such other facts as Lessee or its prospective mortgagee or purchaser may request.
- (b) Lessor shall obtain for Lessee from the holder of any mortgage and deed of trust now or hereafter encumbering the Property a subordination and non-disturbance agreement, providing that so long as Lessee is not in default under this Agreement, its rights as Lessee hereunder shall not be terminated and its access to and possession of the Premises shall not be disturbed by the mortgagee or trustee, or by any proceedings on the debt which any such mortgage or deed of trust secures, and that any sale at foreclosure shall be subject to this Agreement.

**20. Assignment.** This Agreement is freely assignable by Lessee to any other party upon written notice to Lessor, without the necessity of obtaining Lessor's consent. Upon an assignment, Lessee shall be relieved of all liabilities and obligations arising under this Agreement subsequent to the date of such assignment. Lessee, at its sole discretion, may, without any need to obtain the consent of Lessor, license or sublease all or a portion of the Site and/or the Telecommunications Facilities. Additionally, Lessee may mortgage or grant a security interest in this Agreement and the Telecommunications Facilities and may assign this Agreement and the Telecommunications Facilities to any such mortgagees or holders of security interests including their successors and assigns (hereinafter collectively referred to as "**Secured Parties**"). If requested by Lessee, Lessor shall execute such consent to such financing as may reasonably be required by Secured Parties. In addition, if requested by Lessee, Lessor agrees to notify Lessee and Lessee's Secured Parties simultaneously of any default by Lessee and to give Secured Parties the same right to cure any default as Lessee. If a termination, disaffirmance or rejection of this Agreement by Lessee pursuant to any laws (including any bankruptcy or insolvency laws) occurs, or if Lessor shall terminate this Agreement for any reason, Lessor will give to Secured Parties prompt notice thereof and Secured Parties shall have the right to enter upon the Premises during a 30-day period commencing upon Secured Parties' receipt of such notice for the purpose of removing any Telecommunications Facilities. Lessor acknowledges that Secured Parties are third-party beneficiaries of this Agreement.

**21. Limited Right of First Refusal.** Notwithstanding anything to the contrary contained herein, this paragraph shall not apply to any fee simple sale of the Property from Lessor to any prospective purchaser that is not a Third-Party Competitor or to Lessee. A Third-Party Competitor as included in this Section is

defined as a party that competes, owns, markets or distributes products within the telecommunications industry and is not an affiliate, licensee, or distributor of Lessee. If Lessor receives an offer or desires to offer to: (i) sell or convey any interest (including, but not limited to, leaseholds or easements) in any real property of which the Leased Premises is a part to a Third Party Competitor or (ii) assign all or any portion of Lessor's interest in the Lease to a Third Party Competitor (any such offer, the "Offer"), Lessee shall have the right of first refusal to purchase the real property or other interest being offered by Lessor in connection with the Offer on the same terms and conditions. If Lessee elects, in its sole and absolute discretion, to exercise its right of first refusal as provided herein, Lessee must provide Lessor with notice of its election not later than forty-five (45) days after Lessee receives written notice from Lessor of the Offer. If Lessee elects not to exercise Lessee's right of first refusal with respect to an Offer as provided herein, Lessor may complete the transaction contemplated in the Offer with the Third-Party Competitor on the stated terms and price but with the express condition that such sale is made subject to the terms of the Lease, as modified by an amendment. Lessor hereby acknowledges and agrees that any sale or conveyance by Lessor in violation of this Section is and shall be deemed to be null and void and of no force and effect. The terms, provisions, and conditions of this Section shall survive the execution and delivery of an amendment.

**22. Further Assurances.** Each party shall take all such further actions and execute all such further documents and instruments as the parties may at any time reasonably determine to be necessary or desirable to carry out and consummate the transactions contemplated by this Agreement.

**23. Waiver of Lessor's Lien.** Lessor hereby waives any and all lien rights it may have, statutory or otherwise, in and to the Telecommunications Facilities or any portion thereof, regardless of whether or not same is deemed real or personal property under applicable laws.

**24. Waiver of Damages.** Neither Lessor nor Lessee shall be responsible or liable to the other party for any loss or damage arising from any claim to the extent attributable to any acts of vandalism or for any structural or power failures or destruction or damage to the Telecommunications Facilities except to the extent caused by the negligence or willful misconduct of such party. EXCEPT AS SPECIFICALLY PROVIDED IN THIS AGREEMENT, IN NO EVENT SHALL LESSOR OR LESSEE BE LIABLE TO THE OTHER FOR, AND LESSEE AND LESSOR EACH HEREBY WAIVE THE RIGHT TO RECOVER INCIDENTAL, CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, LOSS OF USE OR LOSS OF BUSINESS OPPORTUNITY), PUNITIVE, EXEMPLARY AND SIMILAR DAMAGES.

**25. Miscellaneous.**

- (a) This Agreement shall extend to and bind the heirs, executors, administrators, successors and assigns of the parties hereto.
- (b) This Agreement and the performance thereof shall be governed, interpreted, construed and regulated by the laws of the state or commonwealth in which the Site is located, without regard to its conflicts of laws principles.
- (c) For purposes of providing constructive notice hereof and if required by applicable law, Lessor and Lessee hereby agree to execute the i) Memorandum of Option (see form attached hereto as **Exhibit D-1**), and ii) Memorandum of Ground Lease Agreement (see form attached hereto as **Exhibit D-2**); and Lessee shall have the same recorded in the land records of the county and state in which the Premises is located. The cost of any such recording is to be paid for solely by the Lessee.

- (d) Any sale or other conveyance by the Lessor of all or part of the Site shall be under and subject to this Agreement and Lessee's rights hereunder.
- (e) It is hereby mutually agreed and understood that this Agreement contains all agreements, promises and understandings between the Lessor and the Lessee and that no verbal or oral agreements, promises, or understandings shall or will be binding upon either the Lessor or Lessee in any dispute, controversy or proceeding at law, or any addition to, variation, or modification of this Agreement shall be void and ineffective unless in writing signed by the parties hereto.
- (f) If either Lessor or Lessee is represented by a real estate broker in this transaction, that party is fully responsible for any fees due such broker and will hold the other party harmless from any claims for commission by such broker.
- (g) This Agreement may be executed in two or more counterparts, all of which are considered one and the same agreement and become effective when one or more counterparts have been signed by each of the parties, it being understood that all parties need not sign the same counterpart.
- (h) The parties agree that a scanned or electronically reproduced copy or image of this Agreement will be deemed an original and may be introduced or submitted in any action or proceeding as competent evidence of the execution, terms and existence hereof notwithstanding the failure or inability to produce or tender an original, executed counterpart of this Agreement and without the requirement that the unavailability of such original, executed counterpart of this Agreement first be proven.
- (i) In the event of any dispute arising hereunder or a default by Lessor or Lessee, and if litigation is commenced, the prevailing party shall be entitled to recover from the other party all costs and expenses incurred in connection with such litigation, including, but not limited to, reasonable attorneys' fees and costs.

**26. Confidentiality.** Lessor shall not disclose to any third party the Rent payable by Lessee under this Agreement and shall treat such information as confidential, except that Lessor may disclose such information to prospective buyers, prospective or existing lenders, Lessor's affiliates and attorneys, or as may be required by law or as may be necessary for the enforcement of Lessor's rights under this Agreement. Lessor acknowledges that the disclosure of such information to any other parties may cause Lessee irreparable harm, and in the event of such disclosure, as an additional remedy, Lessee shall have the right to terminate this Agreement upon giving thirty (30) days written notice thereof to Lessor.

(Signature Pages Follow)

IN WITNESS WHEREOF, the parties hereto have executed this OPTION AND GROUND LEASE AGREEMENT as of the dates written below.

**LESSOR:**

CHARLES BAKER

By: Charles M Baker

Name: Charles M Baker

Date: 10/3/25

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

**LESSOR ACKNOWLEDGMENT**

STATE OF Kentucky  
COUNTY OF Caldwell

On the 3rd day of October in the year 2025 before me, the undersigned, personally appeared Charles M. Baker, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that she/he executed the same in her/his capacity, and that by her/his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

**JENNY L. MCKINNEY**  
NOTARY PUBLIC  
STATE AT LARGE  
KENTUCKY  
ID. # KYNP21996  
MY COMMISSION EXPIRES FEBRUARY 1, 2029

Jenny L. McKinney

\_\_\_\_\_, Notary Public

My Commission Expires: 2-01-2029

**LESSEE:**

APC TOWERS IV, LLC,  
a Delaware limited liability company

By: 

Name: Daniel C. Agresta III

Title: President & CEO

Date: 10/8/2020

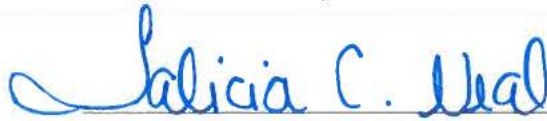
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**LESSEE ACKNOWLEDGMENT**

STATE OF NORTH CAROLINA

COUNTY OF WAKE

On the 8<sup>th</sup> day of October in the year 2025 before me, the undersigned, personally appeared Daniel C. Agresta III, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.



Talicia C. Neal, Notary Public

My Commission Expires: April 12, 2028.



**EXHIBIT A**

**LEGAL DESCRIPTION OF REAL PROPERTY**

Legal description of the Property to be provided on new Exhibit A prior to exercise of Option per Paragraph 1(c). Initials by Lessor and Lessee at the bottom of the new Exhibit A will constitute approval.

Situate in the County of Crittenden, State of Kentucky:

**TRACT ONE:**

A certain tract or parcel of land lying on the waters of Dean Branch, a tributary of Piney Creek, in Crittenden County, Kentucky, and bounded as follows:

BEGINNING on a stone, a corner to Ida Marion Dean Baker in Tom Turner's line; thence with his line N 82 W 65 poles to a stone on the South bank of old road; thence with old road N 74 W 14 poles to a white oak, corner to Sam Morrow; thence with Sam Morrow's line W 30 1/2 poles to a stone; thence S 32 1/2 W 33 poles and 19 links to a stone, corner to Sam Morrow and Floyd McDowell; thence with Floyd McDowell's line S 39 1/2 W 60 poles to a stone, corner to Roy Lam; thence with his line N 9 1/2 E 58 poles to a black oak in Rosalie Akridge's line, corner to Roy Lamb; thence N 30 poles with her line to a stone in sout bank of Marion and Shady Grove Highway; thence E with line of right of way of said highway 104 poles to a stone in Ida Marion Dean Baker's line; thence N with her line 30 poles to the beginning, containing 55 acres, more or less.

There is excepted from the above boundary and not conveyed by this Deed .41 acres sold by Grantors to B. E. Stewart and wife, Hazel Stewart; on the 12th day of February, 1949, for complete description, see Deed Book 78, page 343.

Less and Except that property conveyed in Deed recorded 07/21/1978 as Book D128 Page 505 of the Crittenden County records.

Being the same Property Conveyed to Ida Marion Dean Baker and Charles Marion Baker, as Joint Tenants with Right of Survivorship, Grantee, from Reva Pigeon, a Single Woman, Grantor, by Deed Recorded 12/26/1959, as Book D90, Page 582 of the Crittenden County records.

**TRACT TWO:**

A certain tract or parcel of land with all improvements thereon located on the waters of Sugar Grove Creek and Big Piney Creek in Crittenden County Kentucky and bounded as follows:

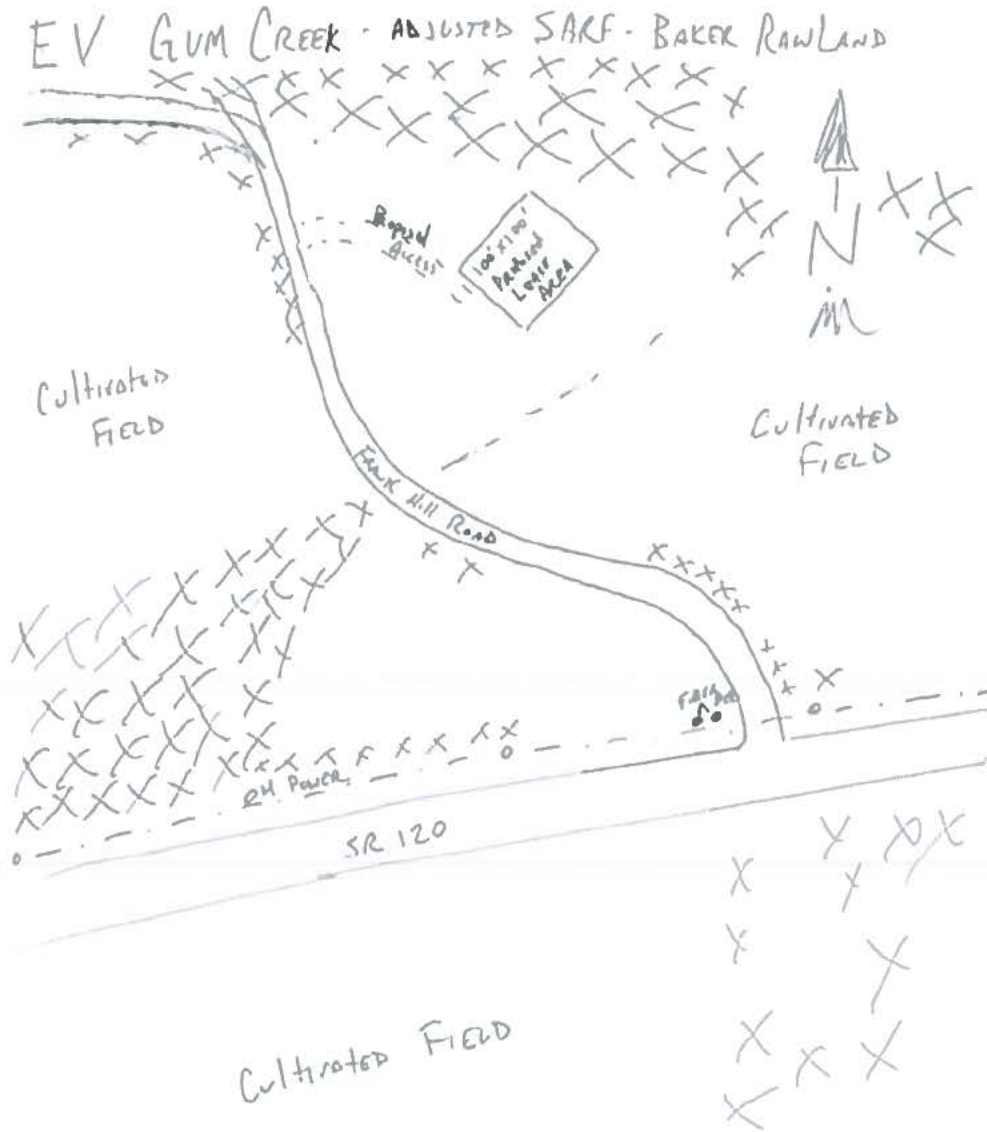
BEGINNING on a stake or stone on the North bank of Sugar Grove Creek, corner to J.N. Dean property; thence due North 90 poles to a stake or stone in Tom Turner's line and corner to J. N. Dean property; thence with Turner's line N 82 West 60 poles to a stake or stone in Turner's line; thence due South to a stake or stone on north bank of Sugar Grove Creek being approx. 115 poles; thence in a North-east direction with the meanders of Sugar Grove Creek to the place of beginning, containing 40 acres be the sane more or less.

Tax ID: 101-00-00-017.00

**EXHIBIT B**

**DESCRIPTION OF PREMISES**

Legal description of the Premises and Easements may be provided on a new Exhibit B prior to exercise of Option per Paragraph 1(e). Initials by Lessor and Lessee at the bottom of the new Exhibit B will constitute approval thereof.



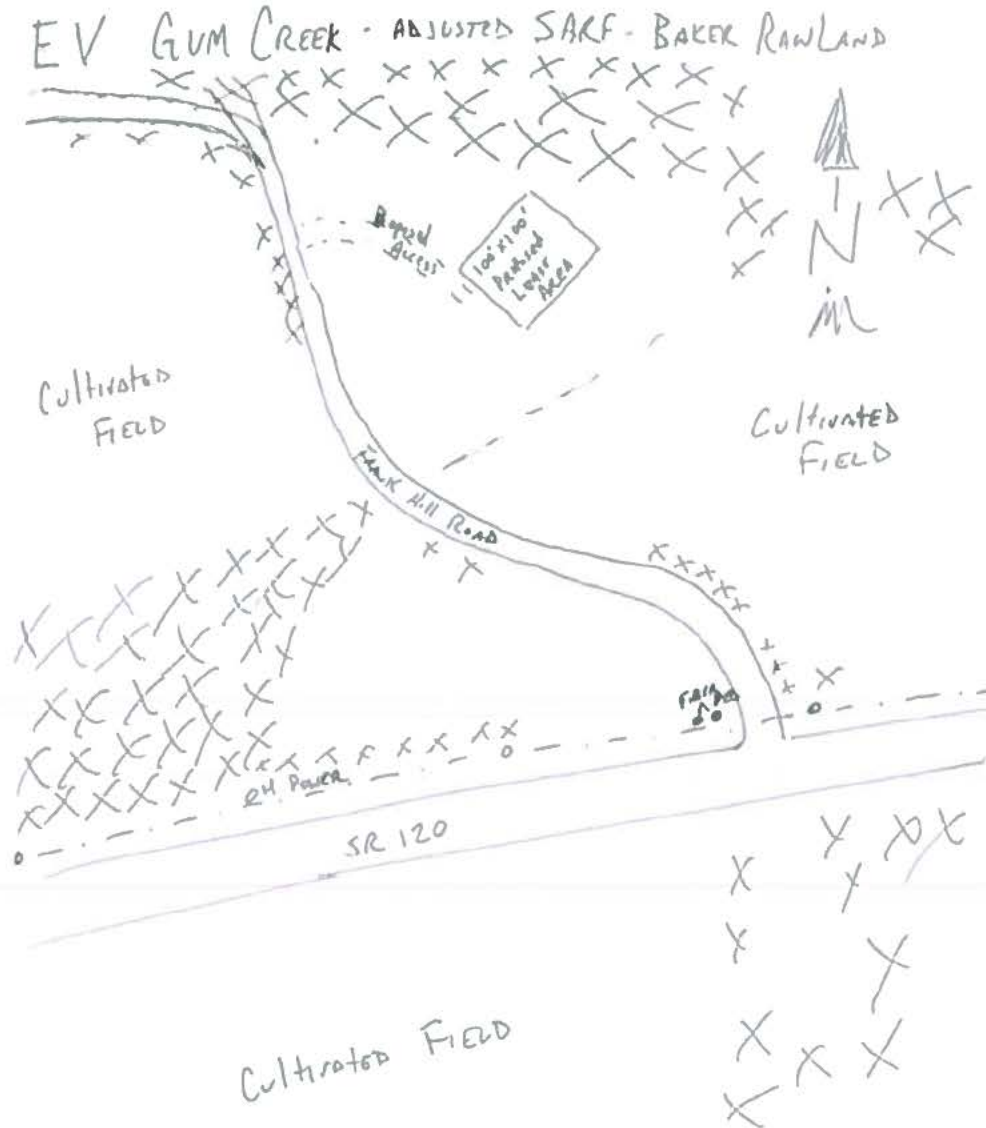
**Notes:**

1. This Exhibit may be replaced by a land survey and/or construction drawings of the Premises.
2. Any setback of the Premises from the Property's boundaries shall be the distance required by the applicable governmental authorities.
3. Width of access road shall be the width required by the applicable governmental authorities, including police and fire departments.

EXHIBIT C

SITE PLAN

To be verified by survey prior to Exercise of Option per Paragraph I(c).



Notes:

1. This Exhibit may be replaced by a land survey and/or construction drawings of the Premises.
2. Any setback of the Premises from the Property's boundaries shall be the distance required by the applicable governmental authorities.
3. Width of access road shall be the width required by the applicable governmental authorities, including police and fire departments.

**EXHIBIT D-1**  
**MEMORANDUM OF OPTION**  
(Attached Hereto)

MEMORANDUM OF OPTION

PREPARED BY AND  
AND WHEN RECORDED MAIL TO:

Talicia C. Neal   
APC Towers IV, LLC  
8601 Six Forks Road, Suite 250  
Raleigh, NC 27615  
(919) 324-1922

(space above for Recorder's use only)

Notice is hereby given that CHARLES BAKER (successor-in-interest to Ida Baker since April 14, 1992 per that Commonwealth of Kentucky Certificate of Death #09315), with a mailing address of 255 Fredonia Quarry Road, Fredonia, KY 42411 ("*Lessor*"); and APC TOWERS IV, LLC, a Delaware limited liability company, with a mailing address of 8601 Six Forks Road, Suite 250, Raleigh, NC 27615 ("*Lessee*"), have entered into a certain Option and Ground Lease Agreement with and Effective Date of October 8, 2025 (the "*Agreement*") for the property located at, State Route 120, Marion KY 42064, also known as parcel number 101-00-00-017.00 whereby Lessor grants Lessee an option to lease a portion of such real property, as more specifically described in **Exhibit A (Legal Description of Real Property)** and **Exhibit B (Description of Premises)** attached hereto (collectively, the "*Property*") and to obtain access and utility easement rights over the Property.

1. The term of the Option is for twenty-four (24) months commencing as of the Effective Date of the Agreement, and Lessee has the right to extend the term of the option for one (1) additional twenty-four (24)-month period following the initial term of the Option.
2. During the term of the Option, Lessee has the exclusive right to lease the Property or any portion thereof from the Lessor for the operation of antennae and telecommunications facilities providing transmission and receiving facilities for wireless providers and users, and that Lessor will not grant a lease, sublease, or other license or right to use any portion of the Property, or any other adjacent

property owned by Lessor, to any other party for operation of antenna and/or telecommunications facilities.

3. Nothing contained herein shall be deemed to amend, modify or alter the terms of the Agreement, and reference is made therefor for all of its terms, covenants and conditions. In the event of any inconsistency between the terms of this Memorandum and the Option, the terms and conditions of the Agreement shall govern and continue.
4. This Memorandum of Option shall be binding upon and inure to the benefit of the respective successors, executors, administrators, heirs and assigns of the parties hereto.

(Signature Pages Follow)

IN WITNESS WHEREOF, the parties hereto have executed this MEMORANDUM OF OPTION as of the dates written below.

**LESSOR:**

CHARLES BAKER

By: Charles M. Baker

Name: Charles M BAKER

Date: 10/3/25

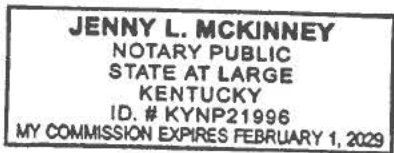
A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

**LESSOR ACKNOWLEDGMENT**

STATE OF Kentucky

COUNTY OF Caldwell

On the 3rd day of October in the year 2025 before me, the undersigned, personally appeared Charles M. Baker, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that she/he executed the same in her/his capacity, and that by her/his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.



Jenny L. McKinney

\_\_\_\_\_, Notary Public

My Commission Expires: 2-01-2029

**LESSEE:**

APC TOWERS IV, LLC,  
a Delaware limited liability company

By: [Signature]

Name: Daniel C. Agresta III

Title: President & CEO

Date: 10/8/2028

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

**LESSEE ACKNOWLEDGMENT**

STATE OF NORTH CAROLINA

COUNTY OF WAKE

On the 8th day of October in the year 2025 before me, the undersigned, personally appeared Daniel C. Agresta III, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

[Signature]

Talicia C. Neal, Notary Public

My Commission Expires: April 12, 2028.



**EXHIBIT A  
TO MEMORANDUM OF OPTION**

**LEGAL DESCRIPTION OF REAL PROPERTY**

Situate in the County of Crittenden, State of Kentucky:

**TRACT ONE:**

A certain tract or parcel of land lying on the waters of Dean Branch, a tributary of Piney Creek, in Crittenden County, Kentucky, and bounded as follows:

BEGINNING on a stone, a corner to Ida Marion Dean Baker in Tom Turner's line; thence with his line N 82 W 65 poles to a stone on the South bank of old road; thence with old road N 74 W 14 poles to a white oak, corner to Sam Morrow; thence with Sam Morrow's line W 30 1/2 poles to a stone; thence S 32 1/2 W 33 poles and 19 links to a stone, corner to Sam Morrow and Floyd McDowell; thence with Floyd McDowell's line S 39 1/2 W 60 poles to a stone, corner to Roy Lam; thence with his line N 9 1/2 E 58 poles to a black oak in Rosalie Akridge's line, corner to Roy Lamb; thence N 30 poles with her line to a stone in sout bank of Marion and Shady Grove Highway; thence E with line of right of way of said highway 104 poles to a stone in Ida Marion Dean Baker's line; thence N with her line 30 poles to the beginning, containing 55 acres, more or less.

There is excepted from the above boundary and not conveyed by this Deed .41 acres sold by Grantors to B. E. Stewart and wife, Hazel Stewart; on the 12th day of February, 1949, for complete description, see Deed Book 78, page 343.

Less and Except that property conveyed in Deed recorded 07/21/1978 as Book D128 Page 505 of the Crittenden County records.

Being the same Property Conveyed to Ida Marion Dean Baker and Charles Marion Baker, as Joint Tenants with Right of Survivorship, Grantee, from Reva Pigeon, a Single Woman, Grantor, by Deed Recorded 12/26/1959, as Book D90, Page 582 of the Crittenden County records.

**TRACT TWO:**

A certain tract or parcel of land with all improvements thereon located on the waters of Sugar Grove Creek and Big Piney Creek in Crittenden County Kentucky and bounded as follows:

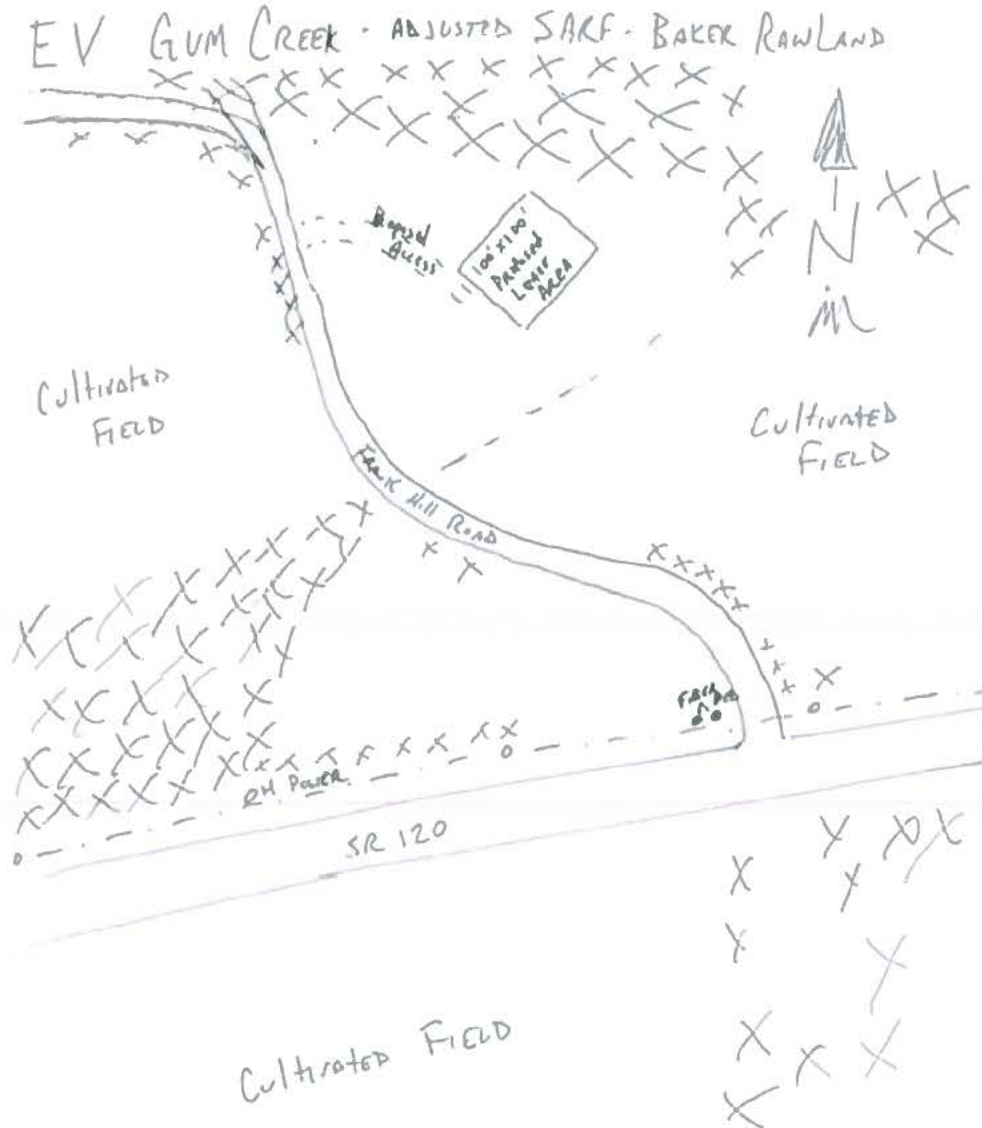
BEGINNING on a stake or stone on the North bank of Sugar Grove Creek, corner to J.N. Dean property; thence due North 90 poles to a stake or stone in Tom Turner's line and corner to J. N. Dean property; thence with Turner's line N 82 West 60 poles to a stake or stone in Turner's line; thence due South to a stake or stone on north bank of Sugar Grove Creek being approx. 115 poles; thence in a North-east direction with the meanders of Sugar Grove Creek to the place of beginning, containing 40 acres be the sane more or less.

Tax ID: 101-00-00-017.00

**EXHIBIT B  
TO MEMORANDUM OF OPTION**

**DESCRIPTION OF PREMISES**

Legal description of the Premises and Easements may be provided on a new Exhibit B to Memorandum of Option and Ground Lease Agreement prior to exercise of Option per Paragraph 1(c). Initials by Lessor and Lessee at the bottom of the new Exhibit B to Memorandum of Option and Ground Lease Agreement will constitute approval thereof.



**Notes:**

1. This Exhibit may be replaced by a land survey and/or construction drawings of the Premises.
2. Any setback of the Premises from the Property's boundaries shall be the distance required by the applicable governmental authorities.
3. Width of access road shall be the width required by the applicable governmental authorities, including police and fire departments.

**EXHIBIT D-2**  
**MEMORANDUM OF GROUND LEASE AGREEMENT**  
(Attached Hereto)

MEMORANDUM OF GROUND LEASE AGREEMENT

PREPARED BY AND  
AND WHEN RECORDED MAIL TO:

Talicia C. Neal *Talicia C. Neal*  
APC Towers IV, LLC  
8601 Six Forks Road, Suite 250  
Raleigh, NC 27615  
(919) 324-1922

*(space above for Recorder's use only)*

THIS MEMORANDUM OF GROUND LEASE AGREEMENT ("*Memorandum*"), is made and entered into as of the latter signature date hereto (the "*Effective Date*"), by and between CHARLES BAKER (successor-in-interest to Ida Baker since April 14, 1992 per that Commonwealth of Kentucky Certificate of Death #09315), with a mailing address of 255 Fredonia Quarry Road, Fredonia, KY 42411 ("*Lessor*"); and APC TOWERS IV, LLC, a Delaware limited liability company, with a mailing address of 8601 Six Forks Road, Suite 250, Raleigh, NC 27615 ("*Lessee*"), is a record of that certain Option and Ground Lease Agreement ("*Lease*") between Lessor and Lessee dated as of *October 8, 2025*, which Lease contains, among other things, the following terms:

1. Description of Premises. The Lease pertains to certain real property owned by Lessor (the "*Property*") and certain premises located thereon to be used by Lessee for the construction, modification, operation, maintenance, repair, replacement and removal of the telecommunications facilities, which premises are hereinafter referred to as the "Premises." The Property is described in Exhibit A and the said Premises are shown on Exhibit B attached to this Memorandum.
2. Term. The Initial Term of the Lease is five (5) years beginning on the Commencement Date.
3. Renewal Terms. Lessee has the right to extend the Term of the Lease for nine (9) successive terms of five (5) years each.

4. Subletting. Lessee has the right, at any time during the Term of this Lease, to sublet any portion of the Premises or permit any portion of the Premises to be occupied or used by subtenants, licensees or customers (including agents, contractors and subcontractors thereof) in connection with the provision of wireless communications services.
5. Limited Right of First Refusal. Notwithstanding anything to the contrary contained herein, this paragraph shall not apply to any fee simple sale of the Property from Lessor to any prospective purchaser that is not a Third-Party Competitor or to Lessee. A Third-Party Competitor as included in this Section is defined as a party that competes, owns, markets or distributes products within the telecommunications industry and is not an affiliate, licensee, or distributor of Lessee. If Lessor receives an offer or desires to offer to: (i) sell or convey any interest (including, but not limited to, leaseholds or easements) in any real property of which the Leased Premises is a part to a Third Party Competitor or (ii) assign all or any portion of Lessor's interest in the Lease to a Third Party Competitor (any such offer, the "Offer"), Lessee shall have the right of first refusal to purchase the real property or other interest being offered by Lessor in connection with the Offer on the same terms and conditions. If Lessee elects, in its sole and absolute discretion, to exercise its right of first refusal as provided herein, Lessee must provide Lessor with notice of its election not later than forty-five (45) days after Lessee receives written notice from Lessor of the Offer. If Lessee elects not to exercise Lessee's right of first refusal with respect to an Offer as provided herein, Lessor may complete the transaction contemplated in the Offer with the Third-Party Competitor on the stated terms and price but with the express condition that such sale is made subject to the terms of the Lease, as modified by an amendment. Lessor hereby acknowledges and agrees that any sale or conveyance by Lessor in violation of this Section is and shall be deemed to be null and void and of no force and effect. The terms, provisions, and conditions of this Section shall survive the execution and delivery of an amendment.
6. Ratification of Lease. By this Memorandum, the parties intend to record a reference to the Lease and do hereby ratify and confirm all of the terms and conditions of the Lease and declare that the Premises are subject to all of the applicable provisions of the Lease. In the event of a conflict between this Memorandum and the Lease, the Lease shall control.

(Signature Pages Follow)

IN WITNESS WHEREOF, the parties hereto have executed this MEMORANDUM OF GROUND LEASE AGREEMENT as of the dates written below.

**LESSOR:**

CHARLES BAKER

By: Charles M. Baker

Name: Charles M Baker

Date: 10/3/25

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.

**LESSOR ACKNOWLEDGMENT**

STATE OF Kentucky

COUNTY OF Caldwell

On the 3rd day of October in the year 2025 before me, the undersigned, personally appeared Charles M. Baker,

personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that she/he executed the same in her/his capacity, and that by her/his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.

**JENNY L. MCKINNEY**  
NOTARY PUBLIC  
STATE AT LARGE  
KENTUCKY  
ID. # KYNP21996  
MY COMMISSION EXPIRES FEBRUARY 1, 2029

Jenny L. McKinney

\_\_\_\_\_, Notary Public

My Commission Expires: 2-01-2029

**LESSEE:**

APC TOWERS IV, LLC,  
a Delaware limited liability company

By: 

Name: Daniel C. Agresta III

Title: President & CEO

Date: 10/18/2028

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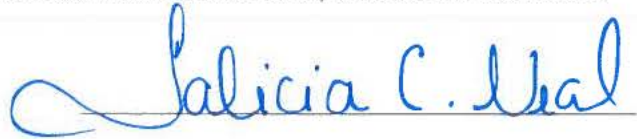
**LESSEE ACKNOWLEDGMENT**

STATE OF NORTH CAROLINA

COUNTY OF WAKE

On the 9<sup>th</sup> day of October in the year 2025 before me, the undersigned, personally appeared Daniel C. Agresta III, personally known to me or proved to me on the basis of satisfactory evidence to be the individual whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his capacity, and that by his signature on the instrument, the individual, or the person upon behalf of which the individual acted, executed the instrument.





Talicia C. Neal, Notary Public

My Commission Expires: April 12, 2028.

**EXHIBIT A  
TO MEMORANDUM OF GROUND LEASE AGREEMENT**

**LEGAL DESCRIPTION OF REAL PROPERTY**

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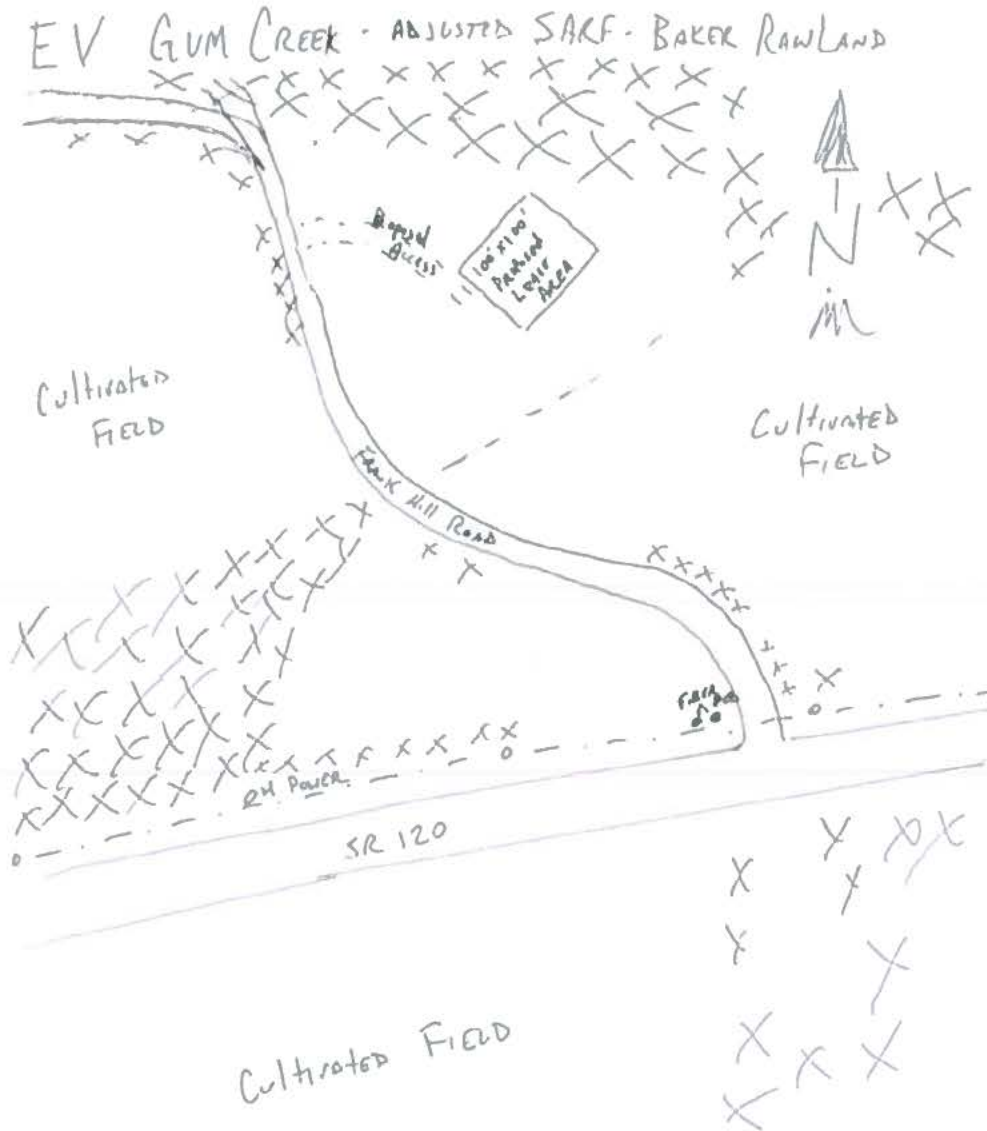
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Tax ID: 101-00-00-017.00

**EXHIBIT B  
TO MEMORANDUM OF GROUND LEASE AGREEMENT**

**DESCRIPTION OF PREMISES**

Legal description of the Premises and Easements may be provided on a new **Exhibit B** to Memorandum of Option and Ground Lease Agreement prior to exercise of Option per Paragraph 1(c). Initials by Lessor and Lessee at the bottom of the new **Exhibit B** to Memorandum of Option and Ground Lease Agreement will constitute approval thereof.


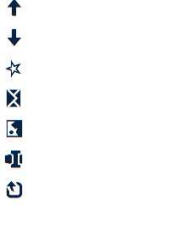


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2. Any setback of the Premises from the Property's boundaries shall be the distance required by the applicable governmental authorities.
3. Width of access road shall be the width required by the applicable governmental authorities, including police and fire departments.

PID	Name	Address	City	State	Zip	Screenshot
101-00-00-017.00	Charles M Baker	255 Fredonia Quarry Rd	Fredonia	KY	42411	
101-00-00-014.00	Travis, Carlos & Kathy	9901 SR 120	Marion	KY	42064	

Parcel ID	Address	County	State	Parcel Summary	Owner Information	Valuation	Improvement Information	Sales Information																				
102-00-00-001.00	Robert A & Susan Stevenson 1/2 & Benjamin Wesley & Patricia Garrou 1009 Creekside Dr NE Valdise NC 28690	Crittenden County, KY	PVA	<p><b>Parcel Summary</b></p> <p>Parcel Number: 102-00-00-001.00  Account Number: SR1320 (CFE)  Location Address: 1411.38 AC BY DEED  Description: (Note: Not to be used on legal documents)  Class: FARM (20)  Tax District: 04-Shady Grove  Rate Per Thousand: N/A</p> <p><a href="#">View Map</a></p>	<p><b>Owner Information</b></p> <p>STEVENSON, ROBERT A. &amp; SUSAN 1/2 &amp; GARROU, BENJAMIN WESLEY JR. &amp; PATRICIA  1009 CREEKSIDE DR NE  VALDISE, NC 28690</p>	<p><b>Valuation</b></p> <p><b>Sales Information</b></p> <table border="1"> <thead> <tr> <th>Sale Date</th> <th>Sale Price</th> <th>Deed Book</th> <th>Deed Page</th> <th>Grantee</th> </tr> </thead> <tbody> <tr> <td>10/26/2007</td> <td>\$202,500</td> <td>219</td> <td>430</td> <td>STEVENSON, ROBERT A. &amp; SUSAN 1/2 &amp; PINNEY CREEK FARMS INC</td> </tr> <tr> <td>11/7/2003</td> <td>\$40,000</td> <td></td> <td></td> <td>PINNEY CREEK FARMS INC BRAZELL, JOHN &amp; CINDY</td> </tr> <tr> <td>1/1/1900</td> <td>\$0</td> <td></td> <td></td> <td>BRAZELL, JOHN &amp; CINDY DOUG BRAZELL</td> </tr> </tbody> </table>	Sale Date	Sale Price	Deed Book	Deed Page	Grantee	10/26/2007	\$202,500	219	430	STEVENSON, ROBERT A. & SUSAN 1/2 & PINNEY CREEK FARMS INC	11/7/2003	\$40,000			PINNEY CREEK FARMS INC BRAZELL, JOHN & CINDY	1/1/1900	\$0			BRAZELL, JOHN & CINDY DOUG BRAZELL		
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11/7/2003	\$40,000			PINNEY CREEK FARMS INC BRAZELL, JOHN & CINDY																								
1/1/1900	\$0			BRAZELL, JOHN & CINDY DOUG BRAZELL																								
101-00-00-016.00	Stephen H Hill 1/2 & Jennifer Little C/O Stephen Hill 4255 SR 120 Marion KY 42064	Crittenden County, KY	PVA	<p><b>Parcel Summary</b></p> <p>Parcel Number: 101-00-00-016.00  Account Number: 340703  Location Address: 49 AC +/- &amp; IMPR: FARM C  Description: (Note: Not to be used on legal documents)  Class: FARM (20)  Tax District: 04-Shady Grove  Rate Per Thousand: N/A</p> <p><a href="#">View Map</a></p>	<p><b>Owner Information</b></p> <p>HILL, STEPHEN H 1/2 &amp; LITTLE, JENNIFER C/O STEPHEN HILL  723 SR 120  MARION, KY 42064</p>	<p><b>Valuation</b></p> <p><b>Improvement Information</b></p> <p><b>Sales Information</b></p> <table border="1"> <thead> <tr> <th>Sale Date</th> <th>Sale Price</th> <th>Deed Book</th> <th>Deed Page</th> <th>Grantee</th> </tr> </thead> <tbody> <tr> <td>6/19/2020</td> <td>\$0</td> <td>240</td> <td>607</td> <td>HILL, STEPHEN H 1/2 &amp; LITTLE, JENNIFER</td> </tr> <tr> <td>1/1/1900</td> <td>\$0</td> <td>91</td> <td>195</td> <td>HILL, STEPHEN H 1/2 &amp; LITTLE, JENNIFER HILL ROSE EST</td> </tr> </tbody> </table>	Sale Date	Sale Price	Deed Book	Deed Page	Grantee	6/19/2020	\$0	240	607	HILL, STEPHEN H 1/2 & LITTLE, JENNIFER	1/1/1900	\$0	91	195	HILL, STEPHEN H 1/2 & LITTLE, JENNIFER HILL ROSE EST							
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Parcel ID	Grantor	County	Parcel ID	Grantee	County	Parcel ID	Grantor	County	Parcel ID	Grantee	County																		
101-00-00-018.00	Travis Newman	Marion	8533 SR 120		KY	42064																							
<div style="display: flex; justify-content: space-between;"> <span>qPublic.net Crittenden County, KY PVA</span> <span>Joseph Calicos Search</span> </div> <div style="display: flex; justify-content: space-between; font-size: small;"> <span>Layers Map Search Results Report Sales Search Sales List Sales Results Home Tax Estimator</span> </div> <div style="margin-top: 10px;"> <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="width: 45%;"> <p><b>Parcel Summary</b></p> <p>Parcel Number: 101-00-00-018.00  Account Number: 140705  Location Address: 8533 SR 120  Description: 32 AC NEAR DEANWOOD  <small>(Notes: Not to be used on legal documents)</small>  Class: FARM (20)  Tax District: 04-Shady Grove  Rate Per Thousand: N/A</p> <p><a href="#">View Map</a></p> </div> <div style="width: 45%; text-align: right;">  </div> </div> <div style="margin-top: 10px;"> <p><b>Owner Information</b></p> <p>TRAVIS NEWMAN  8533 SR 120  MARION, KY 42064</p> </div> <div style="margin-top: 10px;"> <p><b>Land Information</b></p> </div> <div style="margin-top: 10px;"> <p><b>Valuation</b></p> </div> <div style="margin-top: 10px;"> <p><b>Improvement Information</b></p> </div> <div style="margin-top: 10px;"> <p><b>Sales Information</b></p> <table border="1" style="width: 100%; font-size: x-small;"> <thead> <tr> <th>Sale Date</th> <th>Sale Price</th> <th>Deed Book</th> <th>Deed Page</th> <th>Grantee</th> <th>Grantor</th> </tr> </thead> <tbody> <tr> <td>2/1/1970</td> <td>\$0</td> <td>244</td> <td>170</td> <td>TRAVIS NEWMAN</td> <td>W F FRUITTEST</td> </tr> </tbody> </table> </div> </div>												Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor	2/1/1970	\$0	244	170	TRAVIS NEWMAN	W F FRUITTEST						
Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor																								
2/1/1970	\$0	244	170	TRAVIS NEWMAN	W F FRUITTEST																								
101-00-00-017.01	Stephen H Hill 1/2 & Jennifer Little C/O Stephen Hill	Marion	4255 SR 120		KY	42064																							
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7/1/1978	\$0	128	305	HILL STEPHEN 1/2 & LITTLE JENNIFE	HILL ROSE EST																								



**Parcel Summary**

Parcel Number: 0977-00-00-014.00  
 Account Number: 140268  
 Location Address: 8251 SR 120  
 Description: 2.2 AC 6 IMPR.  
 (Note: Not to be used on legal documents)  
 Class: RESIDENTIAL L10  
 Tax District: 04-Shady Grove  
 Rate Per Thousand: N/A

[View Map](#)

097-00-00-014.00  
 Rebecca Sue Parrent & Soozan Reagan  
 8251 SR 120  
 Marion  
 KY  
 42064

**Owner Information**

PARRENT REBECCA SUE & REAGAN SOOZAN  
 8251 SR 120  
 MARION, KY 42064

**Land Information**

**Valuation**

**Improvement Information**

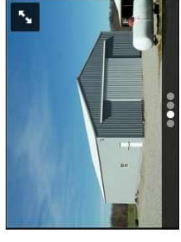
**Sales Information**

Sale Date	Sale Price	Deed Book	Deed Page	Grantor
10/22/2015	\$0	228	776	PARRENT REBECCA SUE & REAGAN SOOZAN
7/3/2003	\$0	196	708	PARRENT REBECCA SUE
12/11/1976	\$0	123	363	PARRENT JAMES GARY & REBECCA SUE RUTH STEWART ET AL

Columns

Parcel Summary

Parcel Number: 097-00-00-004.00  
 Account Number: 1402333  
 Location Address: 8000 SR 120  
 Description: 107 AC & IMPR  
 Class: FARM (20)  
 Tax District: 04-Shady Grove  
 Rate Per Thousand: N/A



[View Map](#)

Owner Information

GATTEN, JEREMY DAVID  
 8045 S.E. 17  
 MARION, KY 42064

Land Information

Valuation

Improvement Information

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
7/6/2018	\$0	236	191	GATTEN, JEREMY DAVID	SHAFFER, HERSHAL
3/26/2012	\$0	220	80	SHAFFER, HERSHAL	SHAFFER, HERSHAL
10/1/2000	\$0			SHAFFER, HERSHAL	CARTER, LAWRENCE
1/1/1900	\$0			CARTER, LAWRENCE	LYNCH, RUBY

Parcel Summary

Parcel Number: 096-00-00-019.00  
 Account Number: 1402340  
 Location Address: CAVE SPRINGS RD  
 Description: 107.21 AC  
 Class: FARM (20)  
 Tax District: 04-Shady Grove  
 Rate Per Thousand: N/A

Owner Information

HARDESTY, MATTHEW  
 4954 CAVE SPRINGS RD  
 MARION, KY 42064

Land Information

Valuation

Improvement Information

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
9/12/2013	\$220,000	223	746	HARDESTY, MATTHEW	MOSS, LINDA R ET AL
9/11999	\$0			MOSS, LINDA R ET AL	STEWART, E ALIST

Parcel ID	Owner	County	City	Address	Parcel Summary	Owner Information	Valuation	Improvement Information	Sales Information																																													
101-00-00-007.00	Stephen H Hill 1/2 & Jennifer Little C/O Stephen Hill	Marion	KY	7255 SR 120	<p><b>Parcel Summary</b></p> <p>Parcel Number: 101-00-00-007.00  Account Number: 1406991  Location Address: FRANK HILL RD  Description: 416.22 TOTAL AC; FARM B  (Note: Not to be used on legal documents)  Class: FARM (20)  Tax District: 04-Shady Grove  Rate Per Thousand: N/A</p> <p><a href="#">View Map</a></p> <p><b>Owner Information</b></p> <p>HILL STEPHEN H 1/2 &amp; LITTLE  C/O STEPHEN HILL  7255 SR 120  MARION, KY 42064</p> <p><b>Land Information</b></p> <p><b>Valuation</b></p> <p><b>Improvement Information</b></p> <p><b>Sales Information</b></p> <table border="1"> <thead> <tr> <th>Sale Date</th> <th>Sale Price</th> <th>Deed Book</th> <th>Deed Page</th> <th>Grantor</th> <th>Grantee</th> </tr> </thead> <tbody> <tr> <td>6/19/2020</td> <td>\$0</td> <td>240</td> <td>607</td> <td>HILL STEPHEN H 1/2 &amp; LITTLE JENNIFER</td> <td>HILL STEPHEN H 1/2 &amp; LITTLE JENNIFER</td> </tr> <tr> <td>1/14/1994</td> <td>\$0</td> <td>167</td> <td>458</td> <td>HILL STEPHEN H 1/2 &amp; LITTLE JENNIFER</td> <td>HILL ROSEEST</td> </tr> </tbody> </table>	Sale Date	Sale Price	Deed Book	Deed Page	Grantor	Grantee	6/19/2020	\$0	240	607	HILL STEPHEN H 1/2 & LITTLE JENNIFER	HILL STEPHEN H 1/2 & LITTLE JENNIFER	1/14/1994	\$0	167	458	HILL STEPHEN H 1/2 & LITTLE JENNIFER	HILL ROSEEST	<p><b>Parcel Summary</b></p> <p>Parcel Number: 101-00-00-010.00  Account Number: 1406994  Location Address: FRANK HILL RD  Description: 5 AC  (Note: Not to be used on legal documents)  Class: RESIDENTIAL (D0)  Tax District: 04-Shady Grove  Rate Per Thousand: N/A</p> <p><a href="#">View Map</a></p> <p><b>Owner Information</b></p> <p>HILL STEPHEN H &amp; MARTHA JO &amp;  MARTHA HILL  7255 SR 120  MARION, KY 42064</p> <p><b>Land Information</b></p> <p><b>Valuation</b></p> <p><b>Sales Information</b></p> <table border="1"> <thead> <tr> <th>Sale Date</th> <th>Sale Price</th> <th>Deed Book</th> <th>Deed Page</th> <th>Grantor</th> <th>Grantee</th> </tr> </thead> <tbody> <tr> <td>8/9/2013</td> <td>\$22,500</td> <td>223</td> <td>150</td> <td>HILL STEPHEN H &amp; MARTHA JO</td> <td>MOSSLINDA R ET AL</td> </tr> <tr> <td>8/9/2013</td> <td>\$22,500</td> <td>223</td> <td>147</td> <td>MOSSLINDA R ET AL</td> <td>MOSSLINDA R ET AL</td> </tr> <tr> <td>12/1/1999</td> <td>\$0</td> <td></td> <td></td> <td>MOSSLINDA R ET AL</td> <td>STEWART E A EST</td> </tr> </tbody> </table>	Sale Date	Sale Price	Deed Book	Deed Page	Grantor	Grantee	8/9/2013	\$22,500	223	150	HILL STEPHEN H & MARTHA JO	MOSSLINDA R ET AL	8/9/2013	\$22,500	223	147	MOSSLINDA R ET AL	MOSSLINDA R ET AL	12/1/1999	\$0			MOSSLINDA R ET AL	STEWART E A EST						
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101-00-00-010.00	Hill, Stephen H & Martha Jo & Martha Hill	Marion	KY	7255 SR 120	<p><b>Parcel Summary</b></p> <p>Parcel Number: 101-00-00-010.00  Account Number: 1406994  Location Address: FRANK HILL RD  Description: 5 AC  (Note: Not to be used on legal documents)  Class: RESIDENTIAL (D0)  Tax District: 04-Shady Grove  Rate Per Thousand: N/A</p> <p><a href="#">View Map</a></p> <p><b>Owner Information</b></p> <p>HILL STEPHEN H &amp; MARTHA JO &amp;  MARTHA HILL  7255 SR 120  MARION, KY 42064</p> <p><b>Land Information</b></p> <p><b>Valuation</b></p> <p><b>Sales Information</b></p> <table border="1"> <thead> <tr> <th>Sale Date</th> <th>Sale Price</th> <th>Deed Book</th> <th>Deed Page</th> <th>Grantor</th> <th>Grantee</th> </tr> </thead> <tbody> <tr> <td>8/9/2013</td> <td>\$22,500</td> <td>223</td> <td>150</td> <td>HILL STEPHEN H &amp; MARTHA JO</td> <td>MOSSLINDA R ET AL</td> </tr> <tr> <td>8/9/2013</td> <td>\$22,500</td> <td>223</td> <td>147</td> <td>MOSSLINDA R ET AL</td> <td>MOSSLINDA R ET AL</td> </tr> <tr> <td>12/1/1999</td> <td>\$0</td> <td></td> <td></td> <td>MOSSLINDA R ET AL</td> <td>STEWART E A EST</td> </tr> </tbody> </table>	Sale Date	Sale Price	Deed Book	Deed Page	Grantor	Grantee	8/9/2013	\$22,500	223	150	HILL STEPHEN H & MARTHA JO	MOSSLINDA R ET AL	8/9/2013	\$22,500	223	147	MOSSLINDA R ET AL	MOSSLINDA R ET AL	12/1/1999	\$0			MOSSLINDA R ET AL	STEWART E A EST	<p><b>Parcel Summary</b></p> <p>Parcel Number: 101-00-00-010.00  Account Number: 1406994  Location Address: FRANK HILL RD  Description: 5 AC  (Note: Not to be used on legal documents)  Class: RESIDENTIAL (D0)  Tax District: 04-Shady Grove  Rate Per Thousand: N/A</p> <p><a href="#">View Map</a></p> <p><b>Owner Information</b></p> <p>HILL STEPHEN H &amp; MARTHA JO &amp;  MARTHA HILL  7255 SR 120  MARION, KY 42064</p> <p><b>Land Information</b></p> <p><b>Valuation</b></p> <p><b>Sales Information</b></p> <table border="1"> <thead> <tr> <th>Sale Date</th> <th>Sale Price</th> <th>Deed Book</th> <th>Deed Page</th> <th>Grantor</th> <th>Grantee</th> </tr> </thead> <tbody> <tr> <td>8/9/2013</td> <td>\$22,500</td> <td>223</td> <td>150</td> <td>HILL STEPHEN H &amp; MARTHA JO</td> <td>MOSSLINDA R ET AL</td> </tr> <tr> <td>8/9/2013</td> <td>\$22,500</td> <td>223</td> <td>147</td> <td>MOSSLINDA R ET AL</td> <td>MOSSLINDA R ET AL</td> </tr> <tr> <td>12/1/1999</td> <td>\$0</td> <td></td> <td></td> <td>MOSSLINDA R ET AL</td> <td>STEWART E A EST</td> </tr> </tbody> </table>	Sale Date	Sale Price	Deed Book	Deed Page	Grantor	Grantee	8/9/2013	\$22,500	223	150	HILL STEPHEN H & MARTHA JO	MOSSLINDA R ET AL	8/9/2013	\$22,500	223	147	MOSSLINDA R ET AL	MOSSLINDA R ET AL	12/1/1999	\$0			MOSSLINDA R ET AL	STEWART E A EST
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12/1/1999	\$0			MOSSLINDA R ET AL	STEWART E A EST																																																	



**Parcel Summary**

Parcel Number: 101-00-00-009.00  
 Account Number: 140693  
 Location Address: FRANK HILL RD  
 Description: 43.25 TOTAL AC. FARM B  
 Class: 04-04 (Used on legal documents)  
 Tax District: PAR04 (20)  
 Rate Per Thousand: 04-Stubby Grove  
 N/A  
[View Map](#)

**Owner Information**

HILL STEPHEN H 1/2 & LITTLE  
 JENNIFER C/O STEPHEN HILL  
 7255 SR 120  
 MARION, KY 42064

**Land Information**

**Valuation**

**Improvement Information**

**Sales Information**

Sale Date	Sale Price	Deed Book	Deed Page	Grantee	Grantor
6/19/2020	\$0	240	607	HILL STEPHEN H 1/2 & LITTLE JENNIFER	HILL STEPHEN H 1/2 & LITTLE JENNIFER
5/2/2020	\$0	167	458	HILL STEPHEN H 1/2 & LITTLE JENNIFER	HILL ROSE EST
1/2/1994	\$215,000			HILL ROSE EST	TURNER TOM MRS

Stephen H Hill 1/2 & Jennifer Little  
 C/O Stephen Hill

7255 SR 120

Marion

KY

42064

101-00-00-009.00



Russell L. Brown  
Attorney at Law  
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100  
Indianapolis, IN 46204  
(317) 637-1321 main  
(317) 687-2344 fax

January 20, 2026

**Notice of Proposed Construction of  
Wireless Communications Facility  
Site Name: Gum Creek Road**

Cellco Partnership, d/b/a Verizon Wireless and APC Towers propose to construct a wireless communications facility on a site located near the intersection of Kentucky Route 120 and Frank Hill Road (North Latitude: 37° 21' 46.88"), West Longitude: 85° 55' 49.91"). The proposed facility will include a 300-foot-tall guyed tower, plus a 5-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, PO Box 615, Frankfort Kentucky 40602. Please refer to docket number 2026-00017 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Co-Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us at 317-637-1321 if you have any comments or questions about this proposal.

Sincerely,

Russell L. Brown  
Attorney for Applicant

RLB/jmc  
Enclosure

**LOCATION MAP | KY 1822 EV GUM CREEK RD**



ClarkQuinn  
Clark, Quinn, Moses, Scott & Grahn, LLP

OF THE RETURN ADDRESS, FOLD AT DOTTED LINE  
**CERTIFIED MAIL**



9589 0710 5270 1450 3455 19

Charles M. Baker  
255 Fredonia Quarry Road  
Fredonia, KY 42411

FIRST-CLASS



US POSTAGE<sup>IMI</sup>PITNEY BOWES  
ZIP 46204 \$ 010.44<sup>0</sup>  
02 7H  
0006035028 JAN 20 2026

ClarkQuinn  
Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE  
**CERTIFIED MAIL**



9589 0710 5270 1450 3455 26

Travis, Carlos & Kathy  
9901 SR 120  
Marion, KY 42064

FIRST-CLASS



US POSTAGE<sup>IMI</sup>PITNEY BOWES  
ZIP 46204 \$ 010.44<sup>0</sup>  
02 7H  
0006035028 JAN 20 2026

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9589 0710 5270 1687 9021 89

Robert A & Susan Stevenson  
1/2 & Benjamin Wesley  
& Patricia Garrou  
1009 Creekside Drive E  
Valdise, NC 28690

FIRST-CLASS



US POSTAGE<sup>IMI</sup>PITNEY BOWES  
ZIP 46204 \$ 010.44<sup>0</sup>  
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**CERTIFIED MAIL**



9589 0710 5270 1687 9021 96

Stephen H Hill 1/2 & Jennifer Little  
c/o Stephen Hill  
4255 SR 120  
Marion, KY 42064

FIRST-CLASS



US POSTAGE™PITNEY BOWES  
ZIP 46204 \$ 010.44<sup>0</sup>  
02 7H  
0006035028 JAN 20 2026

ClarkQuinn  
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**CERTIFIED MAIL**



9589 0710 5270 1687 9022 02

Travis Newman  
8533 SR 120  
Marion, KY 42064

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US POSTAGE™PITNEY BOWES  
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**CERTIFIED MAIL**



9589 0710 5270 1687 9022 19

Rebecca Sue Parrent &  
Soozan Reagan  
8251 SR 120  
Marion, KY 42064

FIRST-CLASS



US POSTAGE™PITNEY BOWES  
ZIP 46204 \$ 010.44<sup>0</sup>  
02 7H  
0006035028 JAN 20 2026

ClarkQuinn  
Clark, Quinn, Moses, Scott & Grahn, LLP

OF THE RETURN ADDRESS, FOLD AT DOTTED LINE  
**CERTIFIED MAIL**



9589 0710 5270 1687 9022 26

Jeremy David Gatten  
8000 SR 120  
Marion, KY 42064

FIRST-CLASS



US POSTAGE<sup>TM</sup> PITNEY BOWES  
ZIP 46204 \$ 010.44<sup>0</sup>  
02 7H  
0006035028 JAN 20 2026

ClarkQuinn  
Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE  
**CERTIFIED MAIL**



9589 0710 5270 1687 9022 33

Matthew Hardesty  
4954 Cave Springs Road  
Marion, KY 42064

FIRST-CLASS



US POSTAGE<sup>TM</sup> PITNEY BOWES  
ZIP 46204 \$ 010.44<sup>0</sup>  
02 7H  
0006035028 JAN 20 2026

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PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE  
**CERTIFIED MAIL**



9589 0710 5270 1687 9022 40

Stephen H Hill 1/2 & Jennifer Little  
c/o Stephen Hill  
7255 SR 120  
Marion, KY 42064

FIRST-CLASS



US POSTAGE<sup>TM</sup> PITNEY BOWES  
ZIP 46204 \$ 010.44<sup>0</sup>  
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ClarkQuinn  
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PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

**CERTIFIED MAIL®**



9589 0710 5270 1687 9022 57

Hill, Stephen H & Martha Jo  
& Martha Hill  
7255 SR 120  
Marion, KY 42064

FIRST-CLASS




US POSTAGE<sup>TM</sup> PITNEY BOWES




ZIP 46204 \$ 010.44<sup>0</sup>  
02 7H  
0006035028 JAN 20 2026

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> <i>Matthew Hardesty</i> <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Matthew Hardesty</i> C. Date of Delivery <i>12/23/26</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Matthew Hardesty          4954 Cave Springs Road          Marion, KY 42064</p>	
 9590 9402 9112 4225 4780 21	<p>3. Service Type <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Mail Restricted Delivery (00)</p>
<p>2. Article Number (Transfer from service label)</p> <p>9589 0710 5270 1687 9022 33</p>	
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt</p>	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> <i>Jeremy Gatten</i> <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Jeremy Gatten</i> C. Date of Delivery <i>11/23/26</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Jeremy David Gatten          8000 SR 120          Marion, KY 42064</p>	
 9590 9402 9112 4225 4780 38	<p>3. Service Type <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Mail Restricted Delivery (00)</p>
<p>2. Article Number (Transfer from service label)</p> <p>9589 0710 5270 1687 9022 26</p>	
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt</p>	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> <i>Bettie J Travis</i> <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Bettie J Travis</i> C. Date of Delivery <i>11/23/26</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes          If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p>Travis Newman          8533 SR 120          Marion, KY 42064</p>	
 9590 9402 9112 4225 4780 52	<p>3. Service Type <input type="checkbox"/> Priority Mail Express®  <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™  <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery  <input type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation™  <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery  <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Signature Confirmation  <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Restricted Delivery  <input type="checkbox"/> Insured Mail <input type="checkbox"/> Mail Restricted Delivery (00)</p>
<p>2. Article Number (Transfer from service label)</p> <p>9589 0710 5270 1687 9022 02</p>	
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt</p>	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY														
<ul style="list-style-type: none"> <li>Complete items 1, 2, and 3.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> <i>Robert Stevenson</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery</p>														
<p>1. Article Addressed to:            Robert A &amp; Susan Stevenson            1/2 &amp; Benjamin Wesley            &amp; Patricia Garrou            1009 Creekside Drive E            Valdise, NC 28690</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input type="checkbox"/> No</p>														
 9590 9402 9112 4225 4780 76	<p>3. Service Type</p> <table border="0"> <tr> <td><input type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> </table>	<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Restricted Delivery	<input type="checkbox"/> Insured Mail	
<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®														
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™														
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery														
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<input type="checkbox"/> Insured Mail															
<p>2. Article Number (Transfer from service label)            9589 0710 5270 1687 9021 89</p>	<p><input type="checkbox"/> Mail Restricted Delivery (00)</p>														
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt</p>															

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<p>1. Article Addressed to:            Rebecca Sue Parrent &amp;            Soozan Reagan            8251 SR 120            Marion, KY 42064</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes            If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p>														
 9590 9402 9112 4225 4780 45	<p>3. Service Type</p> <table border="0"> <tr> <td><input checked="" type="checkbox"/> Adult Signature</td> <td><input type="checkbox"/> Priority Mail Express®</td> </tr> <tr> <td><input type="checkbox"/> Adult Signature Restricted Delivery</td> <td><input type="checkbox"/> Registered Mail™</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail®</td> <td><input type="checkbox"/> Registered Mail Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Certified Mail Restricted Delivery</td> <td><input type="checkbox"/> Signature Confirmation™</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery</td> <td><input type="checkbox"/> Signature Confirmation Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Collect on Delivery Restricted Delivery</td> <td><input type="checkbox"/> Restricted Delivery</td> </tr> <tr> <td><input type="checkbox"/> Insured Mail</td> <td></td> </tr> </table>	<input checked="" type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®	<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™	<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery	<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™	<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery	<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Restricted Delivery	<input type="checkbox"/> Insured Mail	
<input checked="" type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®														
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™														
<input type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restricted Delivery														
<input type="checkbox"/> Certified Mail Restricted Delivery	<input type="checkbox"/> Signature Confirmation™														
<input type="checkbox"/> Collect on Delivery	<input type="checkbox"/> Signature Confirmation Restricted Delivery														
<input type="checkbox"/> Collect on Delivery Restricted Delivery	<input type="checkbox"/> Restricted Delivery														
<input type="checkbox"/> Insured Mail															
<p>2. Article Number (Transfer from service label)            9589 0710 5270 1687 9022 19</p>	<p><input type="checkbox"/> Mail Restricted Delivery (00)</p>														
<p>PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt</p>															

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Hill, Stephen H & Martha Jo  
 & Martha Hill  
 7255 SR 120  
 Marion, KY 42064



9590 9402 9112 4225 4781 06

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9022 57

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Martha Hill*

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

*11/30/20*

D. Is delivery address different from item 1? If YES, enter delivery address below:

- Yes
- No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery (0)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Charles M. Baker  
 255 Fredonia Quarry Road  
 Fredonia, KY 42411



9112 4225 4780 90

(Transfer from service label)

170 1450 3455 19

SN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Charles M Baker*

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

*CHARLES M BAKER*

*11-23-20*

D. Is delivery address different from item 1? If YES, enter delivery address below:

- Yes
- No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Mail Restricted Delivery (0)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Domestic Return Receipt

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1 Article Addressed to:

Stephen H Hill ½ & Jennifer Little  
c/o Stephen Hill  
7255 SR 120  
Marion, KY 42064



9590 9402 9112 4225 4780 14

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9022 40

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Stephen Hill*

- Agent
- Addressee

B. Received by (Printed Name)

C. Date of Delivery

1/30/26

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Mail Restricted Delivery (00)
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

**CERTIFIED MAIL**

LOUISVILLE KY 400  
INDIANAPOLIS IN 46204  
24 JAN 2026 PM 2 L  
24 JAN 2026 PM 7 L



9589 0710 5270 1687 9021 96

FIRST CLASS



US POSTAGE IMIPITNEY BOWES



ZIP 46204 \$ 010.44<sup>0</sup>  
02 7H  
0006035028 JAN 20 2026

**ClarkQuinn**  
Clark, Quinn, Moses, Scott & Grahn, LLP  
20 N. Meridian St  
Suite 100  
Indianapolis, IN 46204

Stephen H Hill 1/2 & Jennifer Little  
c/o Stephen Hill  
4255 SR 120  
Marion, KY 42064

*NSA*

-S- 42064-RFS-1N \*95 01/23/26

RETURN TO SENDER  
NO SUCH NUMBER  
UNABLE TO FORWARD  
RETURN TO SENDER



PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

**CERTIFIED MAIL**

INDIANAPOLIS IN 46204  
24 JAN 2026 PM 2 L



9589 0710 5270 1450 3455 26

FIRST CLASS



US POSTAGE IMIPITNEY BOWES



ZIP 46204 \$ 010.44<sup>0</sup>  
02 7H  
0006035028 JAN 20 2026

**ClarkQuinn**  
Clark, Quinn, Moses, Scott & Grahn, LLP  
20 N. Meridian St.  
Suite 100  
Indianapolis, IN  
46204

Travis, Carlos & Kathy  
9901 SR 120  
Marion KY 42064

*NSA*

42064-RFS-1N \*95 01/23/26

RETURN TO SENDER  
NO SUCH NUMBER  
UNABLE TO FORWARD  
RETURN TO SENDER





ClarkQuinn

www.clarkquinnlaw.com

Russell L. Brown  
Attorney at Law  
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100  
Indianapolis, IN 46204  
(317) 637-1321 main  
(317) 687-2344 fax

January 20, 2026

**Via Certified Mail, Return Receipt Requested**  
**9589 0710 5270 1687 9021 72**

Hon. Perry A. Newcom  
Crittenden County Judge Executive  
200 Industrial Drive, Suite A  
Marion KY 42064

RE: Notice of Proposal to Construct Wireless Communications Facility  
Kentucky Public Service Commission Docket No. 2026-00017  
Site Name: Gum Creek Road

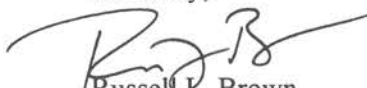
Dear Judge Newcom:

APC Towers IV, LLC and Cellco Partnership, d/b/a Verizon Wireless propose to construct a wireless communications facility on a site located near the intersection of Kentucky Route 120 and Frank Hill Road (North Latitude: 37° 21' 46.88"), West Longitude: 85° 55' 49.91"). The proposed facility will include a 300-foot-tall guyed tower, plus a 5-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2026-00017 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Verizon Wireless' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to the wireless customers in the area. Please feel free to contact us with any comments or questions you may have.

Sincerely,

  
Russell L. Brown  
Attorney for Applicant

# LOCATION MAP | KY 1822 EV GUM CREEK RD



ClarkQuinn  
Clark, Quinn, Moses, Scott & Grahn, LLP

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT  
OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

**CERTIFIED MAIL**



9589 0710 5270 1687 9021 72

FIRST-CLASS



US POSTAGE<sup>IMPITNEY BOWES</sup>



ZIP 46204 \$ 010.44<sup>0</sup>  
02 7H  
0006035028 JAN 20 2026

Hon. Perry A. Newcom  
Crittenden County Judge Executive  
200 Industrial Drive, Suite A  
Marion KY 42064

**SENDER: COMPLETE THIS SECTION**

- Complete items 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Hon. Perry A. Newcom  
Crittenden County Judge Executive  
200 Industrial Drive, Suite A  
Marion KY 42064



9590 9402 9112 4225 4780 07

2. Article Number (Transfer from service label)

9589 0710 5270 1687 9021 72

PS Form 3811, July 2020 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X *Perry A. Newcom*

Agent

Addressee

B. Received by (Printed Name)

*Perry Newcom*

C. Date of Delivery

*1-23-26*

D. Is delivery address different from item 1?  Yes  
If YES, enter delivery address below:  No

3. Service Type

- Adult Signature
- Adult Signature Restricted Delivery
- Certified Mail®
- Certified Mail Restricted Delivery
- Collect on Delivery
- Collect on Delivery Restricted Delivery
- Insured Mail
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery
- Priority Mail Express®

Domestic Return Receipt

## SITE NAME: KY-1822 EV GUM CREEK ROAD NOTICE SIGNS

The signs are at least (2) feet by four (4) feet in size, of durable material, with the text printed in black letters at least one (1) inch in height against a white background, except for the word "**tower**," which is at least four (4) inches in height.

APC Towers IV, LLC and Cellco Partnership, d/b/a Verizon Wireless proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2026-00017 in your correspondence.

APC Towers IV, LLC and Cellco Partnership, d/b/a Verizon Wireless proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2026-00017 in your correspondence.



VIA EMAIL: [evans@the-press.com](mailto:evans@the-press.com)  
[advertising@the-press.com](mailto:advertising@the-press.com)

The Crittenden Press  
PO Box 191  
Marion KY 42064-0191

Land Use Consultants  
Elizabeth Bentz Williams, AICP  
Joseph M. Csikos, AICP

\*Also admitted in Montana  
†Also admitted in Kentucky  
\*\*Registered Civil Mediator

RE: Legal Notice Advertisement  
Site Name: Gum Creek Road

To Whom It May Concern,

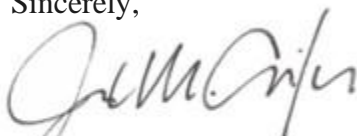
Please publish the following legal notice advertisement in the next available edition of The Crittenden Press serving Crittenden County, KY:

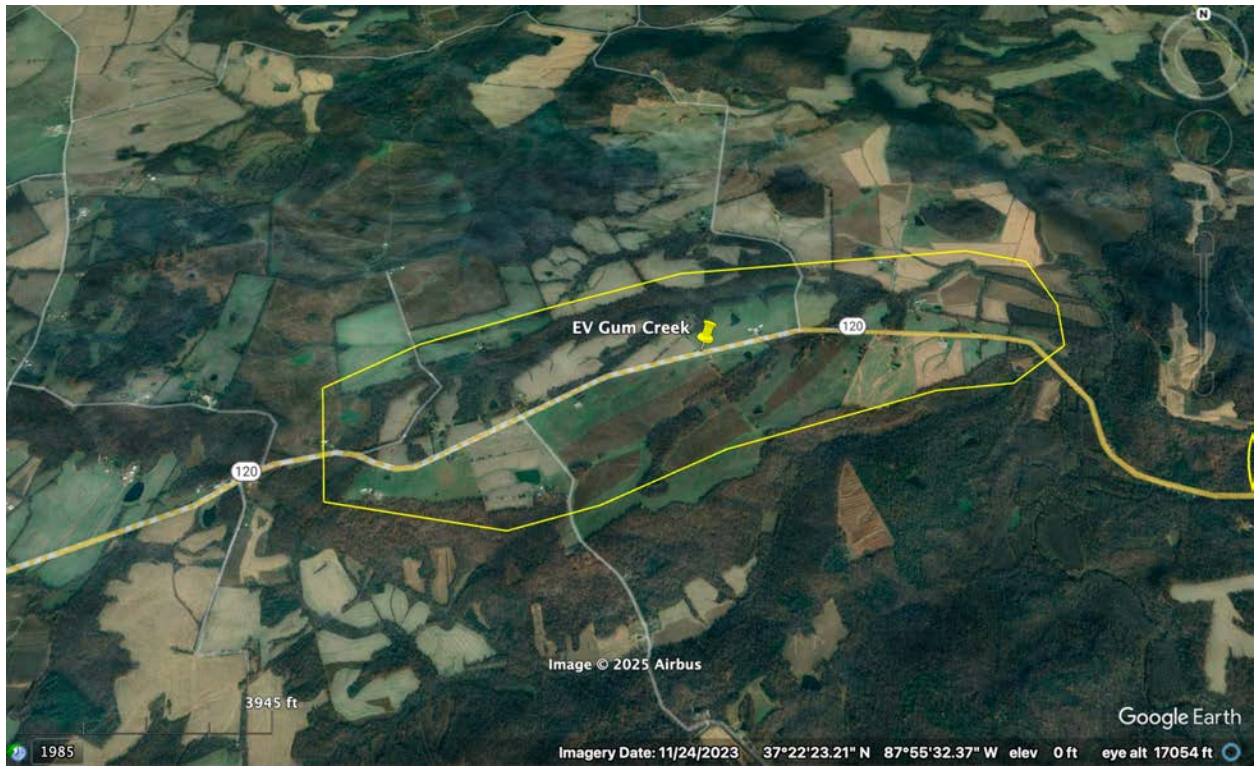
**NOTICE**

**Cellco Partnership, d/b/a Verizon Wireless and APC Towers IV, LLC are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located near the intersection of Kentucky Route 120 and Frank Hill Road (North Latitude: 37° 21' 46.88", West Longitude: 85° 55' 49.91"). The proposed facility will include a 300-foot-tall, guyed tower, plus a 5-foot lightning arrestor and related ground facilities. Site name is Gum Creek Road. You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2026-00017 in any correspondence sent in connection with this matter.**

After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Clark, Quinn, Moses, Scott & Grahn, LLC, 320 N. Meridian Street, Indianapolis, IN 46204 or by email to [jcsikos@clarkquinnlaw.com](mailto:jcsikos@clarkquinnlaw.com). Please call me on with any questions at 317-637-1321 extension 319 if you have any questions. Thank you for your assistance.

Sincerely,

  
Joseph M Csikos AICP



EV Gum Creek

120

120

Image © 2025 Airbus

3945 ft

Google Earth

1985

Imagery Date: 11/24/2023 37°22'23.21" N 87°55'32.37" W elev 0 ft eye alt 17054 ft



December 16, 2025

Re: Radiofrequency Justification for Proposed Wireless Communications Facility for Cellco Partnership d/b/a Verizon Wireless ("Verizon")

Tower Developer and Owner: APC  
Facility Site Name: EV Gum Creek Rd  
Type of Tower: Self Support (Guyed Tower)  
Tower Height: 300 ft.  
Location: 7000 State Route 120, Marion, KY 42064

To Whom It May Concern:

As a radio frequency engineer for Verizon, I am providing this letter to state the need for a proposed Verizon wireless communications site called "EV Gum Creek Rd".

The EV Gum Creek Rd site is proposed in order to offload excess traffic from existing Verizon sites in this area that are operating at or near capacity. Currently Verizon customers are experiencing poor service east of Marion along State Route 120 and the immediately surrounding area ("Gap Area") because there is a high demand for wireless service and high-speed data there and Verizon's network cannot keep up with that demand. Simply put, Verizon's existing communications sites in and around the Gap Area are over capacity and therefore they cannot sufficiently handle the traffic. The new proposed tower is needed to offload this excess traffic so that Verizon can provide critical service improvements to its customers in the area, including first responders, residents, and businesses.

When Verizon identifies the need for a new site in an area, its design engineers establish search area criteria in order to effectively meet specific coverage objectives as well as offload existing Verizon cell sites that can no longer meet service demands. These criteria are used to identify a "Search Area" in which the new tower would need to be located to meet the coverage and capacity objectives. The proposed tower is also designed to provide a single solution that decreases the chances that a second tower will be needed in the immediate area in the near future. Each wireless communications site covers a limited area, depending on site configuration and the surrounding terrain. Cell sites are built in an interconnected network, which means each cell site must be located so that their respective coverage areas are contiguous. This provides uninterrupted service throughout the coverage area.

Verizon cares about the communities it serves and prefers to collocate on existing structures when feasible. Collocation typically involves lower construction costs, faster deployment, and environment protection. For these reasons, Verizon makes every effort to investigate the feasibility for using existing towers or other tall structures for collocation when designing a new site or system expansion. However, collocation on an existing tower or tall structure is not

always feasible due to location of existing cell sites. Cell sites are placed in a way so they provide smooth hand off to each other and are placed at some distance from each other to eliminate too much overlap. Too much overlap may result in a waste of resources or raise a system capacity overload concern.

Here, Verizon is currently collocated on several existing towers in the areas surrounding the Search Area. However, there are no existing structures within the Search Area on which Verizon could collocate to meet its coverage and capacity objectives in the Gap Area. For this reason, Verizon worked with APC to identify a site in the Search Area on which a new tower could be built that would meet the stated objectives. The proposed new tower, located at 7000 State Route 120, Marion, KY 42064, will be built near the center of the Search Area. Both the proposed location and height of the tower are designed to meet the stated objectives with a single tower. Specifically, the tower will have an overall tower height of 300' with Verizon's equipment installed at a centerline of 295'. This centerline is the minimum height necessary to allow Verizon to be able to adequately cover the Gap Area and to offload traffic from the nearby existing Verizon sites that are currently overloaded. If Verizon is limited to installing its equipment at a centerline that is lower than the proposed height, another tower would be needed in the vicinity in the near future in order to provide the additional coverage and capacity offload that is needed in the Gap Area.

If APC is unable to build the proposed site and therefore Verizon is unable to collocate its equipment on it at a centerline of 295', Verizon will be prohibited from serving its customers in the Gap Area.

This cell site has been designed, and shall be constructed and operated, in a manner that satisfies regulations and requirements of all applicable governmental agencies that have been charged with regulating tower specifications, operation, construction, and placement, including the FAA and FCC.

Sincerely,

A handwritten signature in black ink, appearing to read "Jimmy Polly". The signature is written in a cursive, flowing style.

Jimmy Polly  
RF Engineer  
Verizon Wireless



December 16th, 2025

RE: Zoning Plots

Site Name: EV Gum Creek Rd

To Whom It May Concern:

This map is not a guarantee of coverage and may contain areas with no service. This map reflects a depiction of predicted and approximate wireless coverage of the network and is intended to provide a relative comparison of coverage. The depictions of coverage do not guarantee service availability as there are many factors that can influence coverage and service availability. These factors vary from location to location and change over time. The coverage areas may include locations with limited or no coverage. Even within a coverage area shown, there are many factors, including but not limited to, usage volumes, outages, customer's equipment, terrain, proximity to buildings, foliage, and weather that may impact service.

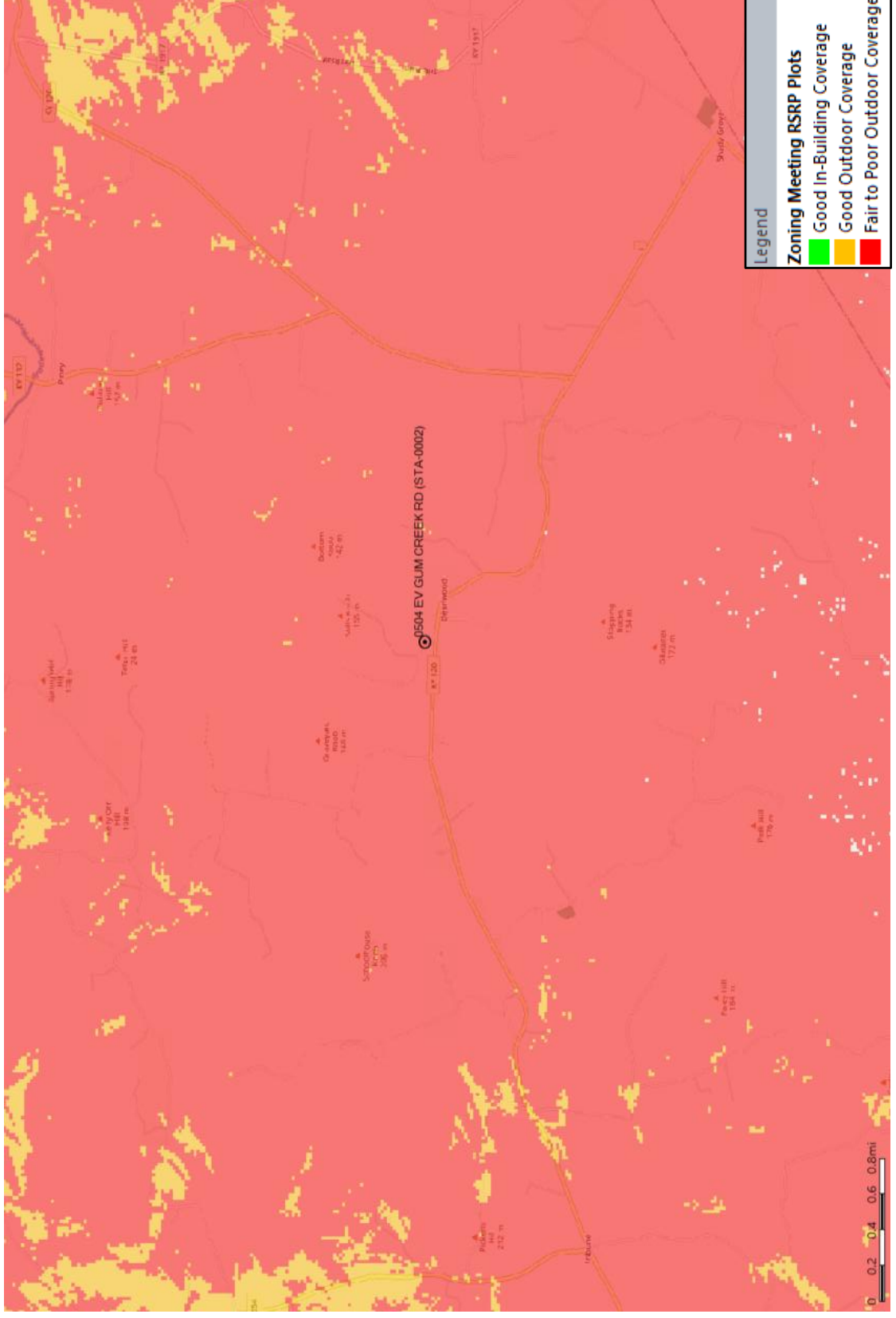
Sincerely,

A handwritten signature in black ink that reads "Jimmy Polly". The signature is written in a cursive style with a large, stylized "P" at the end.

Jimmy Polly  
RF Engineer  
**Verizon Wireless**

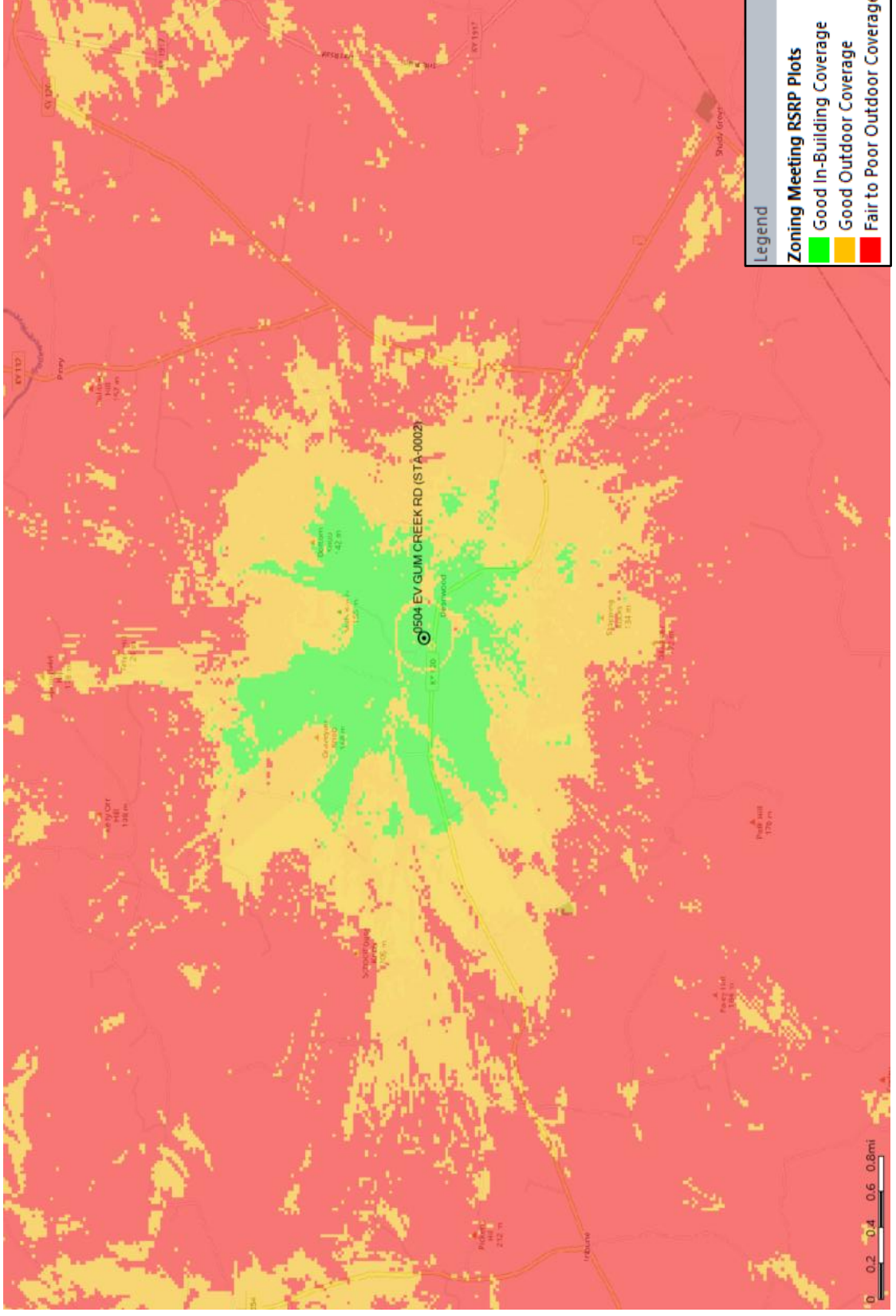


# Coverage – Without Proposed Site EV Gum Creek Rd





## Proposed Coverage – With Proposed Site EV Gum Creek Rd



KY 1822 | EV GUM CREEK ROAD  
List and Identity and Qualifications of Professionals

William R. Heiden III  
Professional Engineer  
Kentucky License 22430  
Mission 1 Communications  
592 W Perry Rd  
Ligonier IN 46767

Ralph M. Wallem  
Professional Land Surveyor  
Kentucky License 2195  
Benchmark Services, Inc.  
318 N Main Street  
Huntingburg IN 47542

Brad R Milanowski  
Professional Engineer  
Kentucky License 25311  
B+T Engineering  
1717 S Boulder Ave #300  
Tulsa OK 74119

Athulya Balakrishnan  
Professional Engineer  
Kentucky License 39178  
Environmental Corporation of America  
1375 Union Hill Industrial Court, Suite A  
Alpharetta GA 30004

Jay Parker  
VP of Construction  
APC Towers  
8601 Six Forks Rd, Suite 250  
Raleigh NC 27615

Jimmy Polly  
RF Engineer  
Verizon Wireless  
2421 Holloway Road  
Louisville, KY 40299

STATE OF INDIANA )  
 ) SS:  
COUNTY OF MARION )

**AFFIDAVIT OF CERTIFICATION  
COMMONWEALTH OF KENTUCKY  
PUBLIC SERVICE COMMISSION**

I, Russell L. Brown, attorney for Cellco Partnership d/b/a Verizon Wireless and APC Towers IV, LLC hereby certify that as the person supervising the preparation of this application and all statements and information contained herein are true and accurate to the best of that person's knowledge, information, and belief formed after a reasonable inquiry for all information within this application.



Russell L. Brown  
Attorney, for Cellco Partnership, d/b/a Verizon Wireless  
and APC Towers IV, LLC

STATE OF INDIANA )  
 ) SS:  
COUNTY OF MARION )

Subscribed and sworn to before me this 24<sup>th</sup> day of March, 2026.



Notary Public  
Printed Name of Notary: Joseph M. Csikos  
My Commission Expires: August 5, 2033  
My County of Residence: Johnson  
Commission No. NP0765036

