

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

In the Matter of:

THE APPLICATION OF)
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS)
AND TOWERCO 2013, LLC FOR ISSUANCE) CASE NO. 2024-00134
OF A CERTIFICATE OF PUBLIC CONVENIENCE AND)
NECESSITY TO CONSTRUCT A WIRELESS)
COMMUNICATIONS FACILITY IN THE)
COMMONWEALTH OF KENTUCKY IN THE COUNTY)
OF BRECKINRIDGE)

SITE NAME: STEPHENSPORT COW RELO

* * * * *

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

Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC (“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. Cellco Partnership, d/b/a Verizon Wireless, having a local address of 2902 Ring Road, Elizabethtown, KY, 42701.

b. TowerCo 2013, LLC, having a local address of 5000 Valleystone Drive, Cary, NC 27519

2. Co-Applicants:

a. 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**.

b. TowerCo 2013, 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**.

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' FCC Registration and Licenses with Authorization to provide wireless services are attached to this Application or described as part of **Exhibit B**, and the facility will be constructed and operated in accordance with applicable FCC regulations.

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-Applicant's RF Design Engineer outlining said need is attached as **Exhibit R** along with Propagation Maps attached as **Exhibit S**. 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 on the east side of HWY 2779, south of KY 144, Stephensport, KY 40170 (North Latitude: (37° 54' 13.31", West Longitude 86° 31' 40.29"), 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 Corey M & Lisa Biddle pursuant to a Deed recorded in Deed Book 425, Page 341 in the office of the County Clerk. The proposed WCF will consist of a 195-foot tall tower, with an approximately 4-foot tall lightning arrestor attached at the top, for a total height of 199-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Co-Applicant's radio electronics equipment and appurtenant equipment. The Co-Applicant's 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 R**.

11. A copy of the Application for Federal Aviation Administration's ("FAA") and the FAA Determination of No Hazard (DNH) are attached as **Exhibit F**

12. A copy of the documentation of application submission to the Kentucky Airport Zoning Commission ("KAZC") 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 Delta Oaks Group, 4904 Professional Court, Second Floor, Raleigh, NC 27609, dated April 16, 2024 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 T**.

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 or an abbreviated agreement recorded with the County Clerk 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 T**.

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

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 21027C0070C, Dated August 4, 2008.

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 Breckinridge County PVA on May 2, 2024. **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 copy of the form of the notice sent by certified mail to each landowner on May 3, 2024, is attached as **Exhibit L**. Seven (7) notices were sent to surrounding property owners; to date three (3) notice green cards have been returned. USPS tracking indicates that four (4) notices are deemed “Unclaimed” and are being returned to sender. **Exhibit L** includes the notice, returned green cards and USPS tracking information. This application will be updated as information is received.

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 Graves County, Kentucky. The site is located on the east side of HWY 2779, south of KY 144, Stephensport, KY 40170. The proposed site is an open area within a heavily treed site. The area is largely wooded with agricultural uses and scattered single family homes. The terrain is hilly. There is no zoning or Plan Commission in this area of Breckinridge County. The proposed facility is removed a significant distance from any residential structures. The nearest residential structure is 285 feet from the proposed tower site.

25. It should be noted that this tower will replace the existing temporary tower located on the north side of River View Drive, west of HWY 2779. Please see the Location Map of the proposed permanent site and the existing temporary tower, attached as **Exhibit P**. Once the permanent tower is constructed and operating, the temporary tower will be decommissioned and removed.

26. 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 Q**.

27. 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 R** and **Exhibit S**, respectively. The proposed tower will expand and improve voice and data service for Verizon Wireless customers.

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

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

30. 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,



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 List and Map
- F FAA Application and Determination of No Hazard
- G KAZC Application Documentation
- 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 Location Map of Proposed Permanent and Existing Temporary Tower
- Q Radio Frequency Design Search Area
- R RF Design Engineer Statement of Need
- S Propagation Maps
- T List of Qualified Professionals
- U Affidavit of Certification

Delaware

The First State

I, JEFFREY W. BULLOCK, 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 TWENTY-SEVENTH DAY OF APRIL, A.D. 2023.

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



A handwritten signature in black ink, appearing to read "JBULLOCK", is written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed.

3341134 8300

SR# 20231665976

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 203227418

Date: 04-27-23



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
Secretary of State
Commonwealth of Kentucky
kdcoleman/0641227 - Certificate ID: 290787

COMMONWEALTH OF KENTUCKY
TREY GRAYSON
SECRETARY OF STATE



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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. Schapker
Signature
Jane A. Schapker-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.

General Partners of Cellco Partnership	Address
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 th Floor Walnut Creek, CA 94597
JV PartnerCo, LLC	2999 Oak Road, 7 th Floor Walnut Creek, CA 94597

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: 297432

Visit <https://web.sos.ky.gov/ftsshow/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,

TOWERCO 2013 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 June 12, 2013.

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 15th day of September, 2023, in the 232nd year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
297432/0859822

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "TOWERCO 2013 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 TWENTY-SEVENTH DAY OF SEPTEMBER, A.D. 2023.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "TOWERCO 2013 LLC" WAS FORMED ON THE THIRD DAY OF OCTOBER, A.D. 2012.

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




Jeffrey W. Bullock, Secretary of State

5222115 8300

SR# 20233593958

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 204256340

Date: 09-27-23

**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: (NE)	
AM – Amendment of a Pending Application AU – Administrative Update CA – Cancellation of an Antenna Structure Registration DI – Notification of an Antenna Structure Dismantlement MD – Modification of a Antenna Structure Registration	NE – Registration of a New Antenna Structure NT – Required Construction/Alteration Notification OC – Ownership Change RE – Registration of a Replacement Antenna Structure WD – 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:
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	(X) Limited Liability Company	() General Partnership	() Limited Partnership
() Consortium	() Limited Liability Partnership	() Other: _____	
4) FCC Registration Number (FRN): 0024950685		5) Assignor FCC Registration Number (FRN):	
6) First Name (if individual):	MI:	Last Name:	Suffix:
7) Legal Entity Name (if not an individual): TowerCo V Holdings LLC			
8) Attention To: TowerCo ID: KY0110		9) P.O. Box:	And/Or
10a) Street Address 1: 5000 Vallestone Dr		10b) Street Address 2: Suite 200	
11) City: Cary	12) State: NC	13) Zip Code: 27519	
14) Telephone Number (xxx-xxx-xxxx): (919) 653-5700		15) Fax Number: (xxx-xxx-xxxx):	
16) E-mail Address: hbyrne@towerco.com			

Contact Representative Information

17) First Name (if individual):	MI:	Last Name:	Suffix:
18) Business Name: TowerCo V Holdings LLC			
19) Attention To: Henry Byrne	20) P.O. Box		And/Or
21a) Street Address 1: 5000 Valleystone Dr		21b) Street Address 2: Suite 200	
22) City: Cary	23) State: NC	24) Zip Code: 27519	
25) Telephone Number (xxx-xxx-xxxx): (919) 653-5700		26) Fax Number: (xxx-xxx-xxxx):	
27) E-mail Address: hbyrne@towerco.com			

Antenna Structure Information

28a) Latitude (DD-MM-SS.S): 37- 54- 13.3		28b) North or South: North	
29a) Longitude (DDD-MM-SS.S): 086- 31- 40.3		29b) East or West: West	
30) Street Address or Geographic Location: 6360 Hwy 2779		31) City: Hardinsburg	
32) County: BRECKINRIDGE	33) State: KENTUCKY	34) Zip Code: 40143	
35) Elevation of site above mean sea level (meters):			176.5 meters
36) Overall height above ground level (AGL) of the supporting structure without appurtenances:			59.4 meters
37) Overall height above ground level (AGL) of the antenna structure including all appurtenances:			60.7 meters
38) Overall height above mean sea level (add items 35 and 37 together):			237.2 meters
39a) Enter the type of structure on which the antenna will be mounted: (LTOWER)			
B – Building BANT – Building with Antenna on Top BMAST – Building with Mast BPIPE – Building with Pipe BPOLE – Building with Pole BRIDG – Bridge BTWR – Building with Tower GTOWER – Guyed Structure Used For Communication Purposes LTOWER – Lattice Tower MAST – Mast MTOWER – Monopole NNGTANN – Guyed Tower Array		NNLTANN – Lattice Tower Array NNMTANN – Monopole Array PIPE – Any type of Pipe POLE – Any type of Pole RIG – Oil or Other Type of Rig SIGN – Any type of Sign or Billboard SIL0 – Any type of Silo STACK – Smoke Stack TANK – Any type of Tank (water, gas, etc.) TREE – When used as a support for an antenna UPOLE – 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: (1) 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: 2023-ASO-28445-OE	44) Date Issued: 11/21/2023
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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: 01/29/2024
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: Henry	MI:	Last Name: Byrne	Suffix:
53) Title: FCC Contact			
54) Signature: Henry Byrne			55) Date: Nov 29, 2023

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:

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: KENTUCKY RSA NO. 1 PARTNERSHIP

ATTN: LICENSING MANAGER
KENTUCKY RSA NO. 1 PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign KNKQ306	File Number 0009611390
Radio Service CL - Cellular	
Market Numer CMA443	Channel Block B
Sub-Market Designator 0	

FCC Registration Number (FRN): 0001836709

Market Name Kentucky 1 - Fulton

Grant Date 08-31-2021	Effective Date 08-31-2021	Expiration Date 10-01-2031	Five Yr Build-Out Date	Print Date 08-31-2021
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	36-20-59.2 N	089-22-12.3 W	98.0		

Address: 0.68 MILE SOUTH OF LASSITER CORNER & REEL FOOT LAKE

City: LASSITER CORNER **County:** LAKE **State:** TN **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 135.800

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	148.000	117.000	107.000	117.000	121.000	147.000	149.000	146.000
Transmitting ERP (watts)	133.300	103.500	36.500	4.500	1.500	3.900	38.800	109.600

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	36-45-58.0 N	088-38-50.0 W	143.0	147.8	1043917

Address: 416 Jimtown Road

City: MAYFIELD County: GRAVES State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	124.300	120.000	100.800	92.100	88.300	103.100	108.600	100.800
Transmitting ERP (watts)	91.200	87.100	85.110	85.110	89.130	87.100	89.130	89.130

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	36-54-35.5 N	089-04-01.6 W	110.3	121.0	1030662

Address: (Wickliffe) 353 CR 1307

City: Bardwell County: CARLISLE State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	107.500	98.100	119.800	96.700	86.900	133.300	130.900	130.400
Transmitting ERP (watts)	189.230	48.640	1.690	0.930	0.930	0.930	1.810	52.120

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	107.500	98.100	119.800	96.700	86.900	133.300	130.900	130.400
Transmitting ERP (watts)	1.710	64.860	368.980	174.580	8.750	0.930	0.930	0.930

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	107.800	98.100	119.800	96.700	86.900	133.300	130.900	130.400
Transmitting ERP (watts)	0.350	0.350	1.230	35.330	112.440	35.270	1.000	0.350

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	36-31-12.4 N	088-50-41.5 W	144.2	122.2	1030665

Address: (Fulton) 550 Powell Road

City: Fulton County: HICKMAN State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	128.200	122.800	123.200	135.200	147.500	157.200	143.900	141.700
Transmitting ERP (watts)	110.570	412.100	98.560	4.220	1.510	0.920	0.920	6.530

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	128.200	122.800	123.200	135.200	147.500	157.200	143.900	141.700
Transmitting ERP (watts)	0.550	0.550	0.550	0.550	1.480	16.430	11.480	0.700

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	36-31-12.4 N	088-50-41.5 W	144.2	122.2	1030665

Address: (Fulton) 550 Powell Road

City: Fulton County: HICKMAN State: KY Construction Deadline:

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	128.200	122.800	123.200	135.200	147.500	157.200	143.900	141.700
Transmitting ERP (watts)	135.480	5.650	2.230	0.920	1.320	5.450	78.640	402.820

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	36-38-26.2 N	088-16-00.1 W	165.8	90.8	1030663

Address: (Murray) 1431 Van Cleave Road

City: Murray County: CALLOWAY State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.900	107.100	115.000	106.900	87.400	91.300	86.200	97.500
Transmitting ERP (watts)	124.240	6.420	0.560	0.560	0.560	0.830	39.630	251.940

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.900	107.100	115.000	106.900	87.400	91.300	86.200	97.500
Transmitting ERP (watts)	3.450	96.460	263.070	57.230	1.700	0.560	0.560	0.560

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.900	107.100	115.000	106.900	87.400	91.300	86.200	97.500
Transmitting ERP (watts)	0.370	0.370	0.370	12.730	121.110	104.340	9.310	0.370

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	37-03-51.4 N	088-57-23.6 W	116.4	92.4	1030664

Address: (La Center) 220 RICHARDSON LN

City: LA CENTER County: BALLARD State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.600	78.400	71.900	66.000	65.300	67.000	87.700	96.100
Transmitting ERP (watts)	2.110	71.430	167.460	63.670	0.330	0.640	0.330	0.330

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.600	78.400	71.900	66.000	65.300	67.000	87.700	96.100
Transmitting ERP (watts)	1.230	1.000	1.380	23.440	338.840	457.090	66.070	2.240

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	37-03-51.4 N	088-57-23.6 W	116.4	92.4	1030664

Address: (La Center) 220 RICHARDSON LN
 City: LA CENTER County: BALLARD State: KY Construction Deadline:

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.600	78.400	71.900	66.000	65.300	67.000	87.700	96.100
Transmitting ERP (watts)	165.960	6.610	0.910	0.500	0.500	0.890	45.710	223.870

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	36-44-07.9 N	088-58-29.2 W	131.9	92.9	1030723

Address: 3975 State Route 2206
 City: CLINTON County: HICKMAN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	100.500	101.900	98.900	84.700	107.900	118.900	119.900	100.400
Transmitting ERP (watts)	96.610	96.610	96.610	96.610	96.610	96.610	96.610	96.610

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	37-02-00.0 N	088-22-10.0 W	105.5	106.7	1040303

Address: (Calvert City) 641 Jary Johnson Rd.
 City: Calvert City County: MARSHALL State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.900	77.600	88.100	83.000	68.600	85.300	97.900	93.100
Transmitting ERP (watts)	23.380	330.300	378.360	36.130	0.970	0.970	0.970	0.970

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.900	77.600	88.100	83.000	68.600	85.300	97.900	93.100
Transmitting ERP (watts)	0.970	0.970	0.970	14.730	240.930	357.480	49.940	1.230

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	78.900	77.600	88.100	83.000	68.600	85.300	97.900	93.100
Transmitting ERP (watts)	63.740	2.060	0.660	0.660	0.660	4.020	107.530	274.970

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	36-34-49.2 N	088-31-45.2 W	155.5	91.4	1202399

Address: 12201 SR 97

City: TriCity County: GRAVES State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.100	73.400	74.100	70.100	102.600	100.900	74.700	81.300
Transmitting ERP (watts)	0.280	4.680	67.610	91.200	13.180	0.450	0.250	0.200

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.100	73.400	74.100	70.100	102.600	100.900	74.700	81.300
Transmitting ERP (watts)	0.360	0.200	0.200	0.350	18.200	89.130	66.070	2.630

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.100	73.400	74.100	70.100	102.600	100.900	74.700	81.300
Transmitting ERP (watts)	100.000	38.020	0.200	0.380	0.200	0.200	1.260	42.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	37-05-47.2 N	088-42-35.2 W	104.2	63.4	1200593

Address: (Paducah West) 4415 Merredith Rd.

City: Paducah County: MCCRACKEN State: KY Construction Deadline: 07-08-2014

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	59.900	55.900	65.200	50.700	38.200	34.700	42.800	64.600
Transmitting ERP (watts)	24.580	50.820	50.310	19.100	0.840	0.330	0.330	1.370

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	59.900	55.900	65.200	50.700	38.200	34.700	42.800	64.600
Transmitting ERP (watts)	0.440	0.440	12.210	76.570	112.800	57.980	5.460	0.440

Antenna: 6

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	59.900	55.900	65.200	50.700	38.200	34.700	42.800	64.600
Transmitting ERP (watts)	20.830	0.780	0.440	0.440	2.790	42.940	108.040	89.900

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	36-46-54.2 N	088-03-28.1 W	199.0	126.5	1205551

Address: 14664 Canton Road

City: Golden Pond County: TRIGG State: KY Construction Deadline: 05-19-2006

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	165.000	178.000	160.400	174.500	170.600	167.000	177.000	183.900
Transmitting ERP (watts)	96.610	96.610	96.610	96.610	96.610	96.610	96.610	96.610

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	36-34-03.0 N	089-10-30.9 W	109.4	91.4	1282534

Address: (Hickman site) Holley Street

City: Hickman County: FULTON State: KY Construction Deadline: 05-28-2014

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.500	102.800	96.700	89.300	75.700	68.400	107.900	107.300
Transmitting ERP (watts)	141.700	118.910	1.140	0.580	0.580	0.580	0.580	4.050

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.500	102.800	96.700	89.300	75.700	68.400	107.900	107.300
Transmitting ERP (watts)	0.580	4.050	141.730	118.910	1.140	0.580	0.580	0.580

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.500	102.800	96.700	89.300	75.700	68.400	107.900	107.300
Transmitting ERP (watts)	0.460	0.460	0.460	0.460	0.460	7.710	45.610	24.600

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-10-55.4 N	088-56-43.7 W	102.7	99.1	1252613

Address: (Monkey's Eyebrow) 4625 Odgen Colvin Circle

City: Kevil County: BALLARD State: KY Construction Deadline: 10-24-2014

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.900	83.500	90.600	69.600	74.300	84.600	86.500	83.200
Transmitting ERP (watts)	7.080	125.890	478.630	112.200	4.570	1.580	1.000	1.000

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.900	83.500	90.600	69.600	74.300	84.600	86.500	83.200
Transmitting ERP (watts)	1.000	1.410	12.020	213.800	446.680	64.570	2.820	1.000

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number: 0009611390

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-10-55.4 N	088-56-43.7 W	102.7	99.1	1252613

Address: (Monkey's Eyebrow) 4625 Odgen Colvin Circle

City: Kevil County: BALLARD State: KY Construction Deadline: 10-24-2014

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	85.900	83.500	90.600	69.600	74.300	84.600	86.500	83.200
Transmitting ERP (watts)	2.000	2.000	2.000	2.000	2.000	398.110	549.540	4.900

Control Points:

Control Pt. No. 3

Address: 500 W. Dove Rd.

City: Southlake County: TARRANT State: TX Telephone Number: (800)264-6620

Waivers/Conditions:

NONE

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign KNLH404	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 04-24-2017	Effective Date 11-30-2017	Expiration Date 04-28-2027	Print Date
Market Number BTA339	Channel Block D	Sub-Market Designator 0	
Market Name Paducah-Murray-Mayfield, KY			
1st Build-out Date 04-28-2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNLH404

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: ALLTEL CORPORATION

ATTN: REGULATORY
ALLTEL CORPORATION
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQBT313), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0002942159

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: ALLTEL CORPORATION

Call Sign: WQBT313

File Number:

Print Date:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Reference Copy

Licensee Name: ALLTEL CORPORATION

Call Sign: WQBT313

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

REFERENCE COPY

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: ALLTEL CORPORATION

ATTN: REGULATORY
ALLTEL CORPORATION
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQBT318), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0002942159

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This authorization is subject to the condition that, in the event that systems using the same frequencies as granted herein are authorized in an adjacent foreign territory (Canada/United States), future coordination of any base station transmitters within 72 km (45 miles) of the United States/Canada border shall be required to eliminate any harmful interference to operations in the adjacent foreign territory and to ensure continuance of equal access to the frequencies by both countries.

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: ALLTEL CORPORATION

Call Sign: WQBT318

File Number:

Print Date:

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Reference Copy

Licensee Name: ALLTEL CORPORATION

Call Sign: WQBT318

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQGA718), File Number (0009793647), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA718

File Number: 0009793647

Print Date: 02-23-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQGA960), File Number (0009775572), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz))

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA960

File Number: 0009775572

Print Date: 01-05-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQGD606), File Number (0009565676), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations.

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGD606

File Number: 0009565676

Print Date: 07-09-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQJQ692), File Number, and Radio Service (WU - 700 MHz Upper Band (Block C)).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQJQ692

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WREF214	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 10-02-2019	Effective Date 10-02-2019	Expiration Date 10-02-2029	Print Date
Market Number C21083	Channel Block L1	Sub-Market Designator 0	
Market Name GRAVES, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WREF214

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign WRHG984	File Number
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0012576435

Grant Date 06-04-2020	Effective Date 06-04-2020	Expiration Date 06-04-2030	Print Date
Market Number PEA243	Channel Block M1	Sub-Market Designator 0	
Market Name Paducah, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein. Neither the license nor the right granted thereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934, as amended. See 47 U.S.C. § 310(d). This license is subject in terms to the right of use or control conferred by §706 of the Communications Act of 1934, as amended. See 47 U.S.C. §606.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS). To view the license record, go to the ULS homepage at <http://wireless.fcc.gov/uls/index.htm?job=home> and select "License Search". Follow the instructions on how to search for license information.

Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHG984

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: STRAIGHT PATH SPECTRUM, LLC

ATTN: REGULATORY
STRAIGHT PATH SPECTRUM, LLC
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WRHG994), File Number, and Radio Service (UU - Upper Microwave Flexible Use Service).

FCC Registration Number (FRN): 0012576435

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

NONE

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: STRAIGHT PATH SPECTRUM, LLC

Call Sign: WRHG994

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WRNG985), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNG985

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WRNG990), File Number, and Radio Service (PM - 3.7 GHz Service).

FCC Registration Number (FRN): 0003290673

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st Build-out Date, 2nd Build-out Date, 3rd Build-out Date, 4th Build-out Date.

Waivers/Conditions:

This final license provides authorization during the full 15-year license term. Operation under this final license may begin on the earlier of (1) 12/5/2025 or (2) the date that the certification for accelerated relocation for this PEA is validated by the FCC pursuant to 47 CFR § 27.1412(g).

License is conditioned on compliance with all applicable FCC rules and regulations, including licensee making payments required by 47 C.F.R. §§ 27.1401- 27.1424 as described in FCC 20-22. See FCC 20-22, paras. 178-331.

Conditions:

Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term thereof nor in any other manner than authorized herein.

This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in the Universal Licensing System (ULS).

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRNG990

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

PROJECT SUMMARY

SITE NAME:	CK STEPHENSSPORT COW RELO
SITE ADDRESS:	TBD KENTUCKY STATE HWY 2779 STEPHENSSPORT, KY 40170
COUNTY:	BRECKINRIDGE
JURISDICTION:	BRECKINRIDGE COUNTY
LAND USE:	AGRICULTURAL
PARCEL ID:	41-3D
SITE COORDINATES:	1A
LATITUDE:	37° 54' 13.31" N (NAD83)
LATITUDE:	37.903697°
LONGITUDE:	86° 31' 40.29" W (NAD83)
LONGITUDE:	-86.527858°
ELEVATION:	579.00' AMSL (NAVD88)
TOWERCO SITE NAME:	CK STEPHENSSPORT COW RELO
TOWERCO SITE NUMBER:	KY-0110
PROPERTY OWNER:	COREY M & LISA BIDDLE
PROPERTY OWNER CONTACT:	COREY BIDDLE 270-547-9672
TOWER OWNER:	TOWERCO 5000 VALLEYSTONE DR. CARY, NC 27519
TOWER OWNER CONTACT:	PAM HENDERSON (919) 653-5710
STRUCTURE TYPE:	MONOPOLE
TOWER HEIGHT:	195'-0"
ENVIRONMENTAL REQ.:	N/A
OCCUPANCY:	UNMANNED
SITE TYPE:	RAWLAND
POWER COMPANY:	NOLIN RURAL ELECTRIC COOPERATIVE
CONTACT:	(270) 765-6163
PHONE:	
COMMUNICATIONS:	AT&T
PHONE:	(210) 821-4105
FIRE DEPARTMENT:	CLOVERPORT FIRE DEPARTMENT
PHONE:	(270) 788-3031
POLICE DEPARTMENT:	STEPHENSSPORT POLICE DEPT
PHONE:	(270) 788-3751

DIRECTIONS FROM BRECKENRIDGE COUNTY COURTHOUSE:
 HEAD NORTH ON M EARLY LN TOWARD BRUM-FIELD RD (0.6 MI), TURN RIGHT ONTO KY-144 / E HIGHWAY 144 (3.6 MI), TURN RIGHT ONTO KY-259 / N HIGHWAY 259 (12.7 MI), ARRIVE AT KY-259 / KY-261 / S MAIN ST ON THE RIGHT. THE LAST INTERSECTION BEFORE YOUR DESTINATION IS KY-992 / W 2ND ST. IF YOU REACH COURTHOUSE SQ, YOU'VE GONE TOO FAR.

STRUCTURAL REVIEW

CONTRACTOR SHALL ATTAIN AND VERIFY STRUCTURAL EVALUATION REPORT OF EXISTING TOWER FOR EXACT PLACEMENT OF ANTENNAS AND COAX CABLES. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE STRUCTURAL EVALUATION REPORT AND NOTIFY VERIZON'S CONSTRUCTION MANAGER IN THE CASE OF ANY DISCREPANCIES. ANY STRUCTURAL MODIFICATION, IF REQUIRED, SHALL BE DONE PRIOR TO THE INSTALLATION OF ANTENNAS.



SITE NUMBER: KY-0110
SITE NAME: CK STEPHENSSPORT COW RELO
TBD KENTUCKY STATE HWY 2779
STEPHENSSPORT, KY 40170

APPLICABLE CODES

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.

- 2018 KENTUCKY BUILDING CODE (2015 INTERNATIONAL BUILDING CODE)
- 2012 INTERNATIONAL ENERGY CONSERVATION CODE (COMMERCIAL)
- 2009 INTERNATIONAL ENERGY CONSERVATION CODE (RESIDENTIAL)
- 2012 INTERNATIONAL FIRE CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL RESIDENTIAL CODE

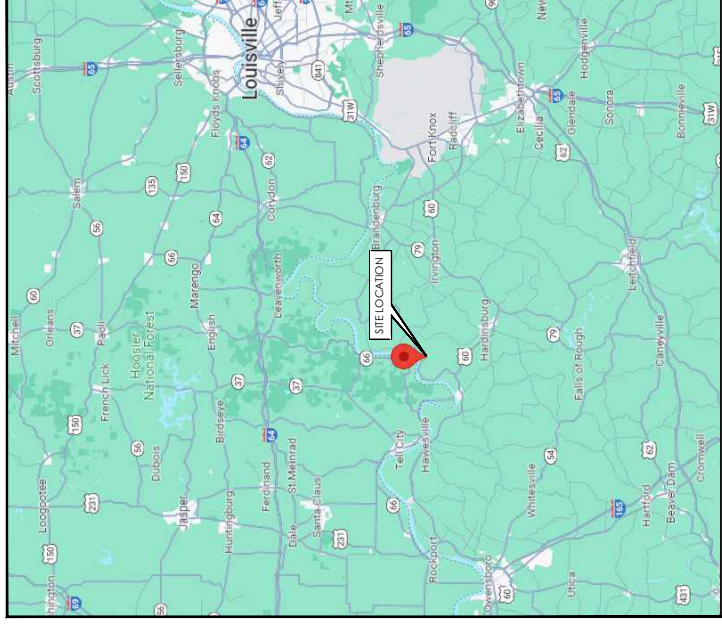
ACCESSIBILITY REQUIREMENTS:
 FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2015 IBC BUILDING CODE.

SCOPE OF WORK

- INSTALL A NEW 195'-0" MONOPOLE TOWER WITH 4'-0" LIGHTNING ROD (OVERALL 199'-0")
- INSTALL A NEW 75' X 75' CHAINLINK FENCED COMPOUND WITHIN A 100' X 100' LEASE AREA
- INSTALL A NEW UTILITY H-FRAME WITHIN THE NEW FENCED COMPOUND
- INSTALL A NEW TOWER, COMPOUND AND EQUIPMENT GROUNDING SYSTEM
- INSTALL NEW ANTENNAS, LINES, COAX, GPS AND RADIO EQUIPMENT
- INSTALL NEW UNDERGROUND POWER AND FIBER CONDUITS WITHIN THE DESIGNATED UTILITY EASEMENT TO NEW UTILITY H-FRAME
- INSTALL A NEW 7'-0" X 11'-0" CONCRETE EQUIPMENT PAD

ALL WORK MUST BE DONE IN ACCORDANCE TO THE DRAWINGS.

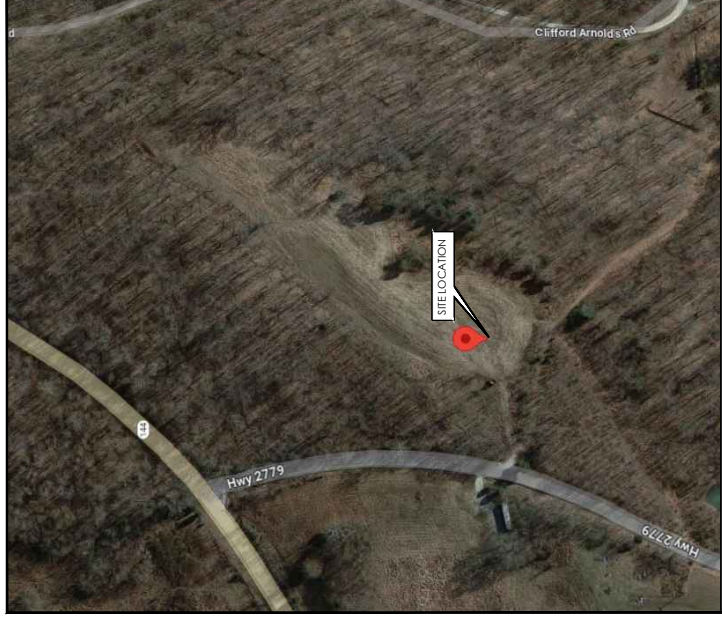
VICINITY MAP



NOT TO SCALE

DIRECTIONS FROM LOUISVILLE SWITCH 2441 HOLLOWAY RD, LOUISVILLE, KY 40298: HEAD SOUTH ON HOLLOWAY RD TOWARD PLANTSIDE DR (354 FT), TURN LEFT ONTO SCHUTTE STATION PL (0.3 MI), ROAD NAME CHANGES TO PLANTSIDE DR (0.6 MI), TURN LEFT ONTO BLANKENBAKER PKWY (0.7 MI), TAKE THE RAMP ON THE RIGHT FOR I-64 EAST AND HEAD TOWARD LEXINGTON (1.6 MI), AT EXIT 19A, HEAD RIGHT ON THE RAMP FOR I-265 / KY-841 SOUTH TOWARD GENE SNYDER FREEWAY (2.8 MI), ROAD NAME CHANGES TO I-265 W / KY-841 W (22.4 MI), AT EXIT 1, HEAD RIGHT ON THE RAMP FOR US-31W / US-60 TOWARD FORT KNOX / LOUISVILLE (0.3 MI), TURN LEFT ONTO US-31W S / US-60 W / DIXIE HWY (13.2 MI), TURN RIGHT ONTO KY-1638 / OLD MILL RD (9.1 MI), TURN RIGHT ONTO KY-448 / BRANDENBURG RD (1.1 MI), KEEP LEFT TO GET ONTO KY-1051 / BYPASS RD (2.3 MI), TURN LEFT ONTO KY-79 / HIGHWAY 79 (2.4 MI), TURN RIGHT ONTO KY-144 / PRAYNEVILLE RD (5.4 MI), TURN LEFT ONTO KY-376 / HIGHWAY 376 (5.6 MI), KEEP STRAIGHT TO GET ONTO KY-144 / E HIGHWAY 144 (8.6 MI), TURN LEFT ONTO M EARLY LN (0.6 MI), ARRIVE AT M EARLY LN ON THE RIGHT. THE LAST INTERSECTION BEFORE YOUR DESTINATION IS BRUM-FIELD RD.

LOCATION MAP



NOT TO SCALE

AERIAL MAP



NOT TO SCALE

CALL 811
1 (800) 752-6007
 www.kentucky811.com
 CONTRACTOR TO CALL KENTUCKY ONE-CALL SYSTEMS AT LEAST (2) FULL WORKING DAYS PRIOR TO DIGGING.

SHEET SCALE FACTOR:
 PLOT SIZE:
 11" x 17" TO SCALE

SHEET INDEX

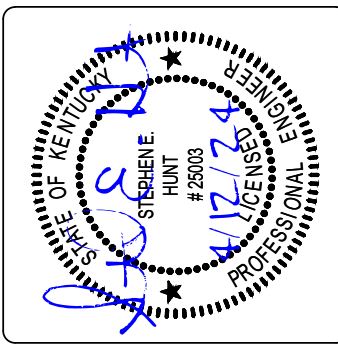
NO.	DESCRIPTION
T1	TITLE SHEET
S1	SITE SURVEY
Z1	COUNTY TOWER MAP
Z2	OVERALL SITE LAYOUT
Z3	OVERALL SITE LAYOUT
Z4	SITE PLAN
Z5	EROSION CONTROL SITE PLAN
Z6	DIMENSION SITE PLAN
Z7	TOWER ELEVATION
Z8	SITE DETAILS
Z9	SITE DETAILS



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DRAWN BY	TDD
CHECKED BY	SEH

#	DATE	BY	DESCRIPTION
0	04/12/24	PLS	ZONING ISSUE
B	01/15/24	PLS	ZONING ISSUE
A	10/05/23	MJB	ZONING ISSUE



SITE NAME:
 CK STEPHENSSPORT COW RELO

SITE # / LOCATION CODE:
 725001

SITE ADDRESS:
 TBD KENTUCKY STATE HWY 2779
 STEPHENSSPORT, KY 40170

SHEET TITLE:
 TITLE SHEET

DRAWING #:
T1

REVISION:
0

FLOOD HAZARD STATEMENT:
 THIS COMMUNICATIONS SITE (THE SUBJECT SITE AS SHOWN) IS NOT LOCATED WITHIN THE LIMITS OF A DESIGNATED 100 YEAR FLOOD ZONE PER FEMA/FIRM MAP COMMUNITY PANEL NUMBER 21027C 0070 C, BRECKINRIDGE COUNTY, KENTUCKY, EFFECTIVE DATE AUGUST 4, 2008.

PROJECT BENCHMARK

PROJECT BENCHMARK ELEVATION DATUM IS BASED UPON GPS SURVEY METHODS AND PROCEDURES.
 TOP OF "CAPPED" IRON PIN SET THIS SURVEY
 ELEVATION = 582.08X' N.A.V.D. 88
 (SEE PLAN FOR LOCATION)

PERIMETER DATA - TOWERCO IV HOLDINGS LLC'S JOINT ACCESS & UTILITY EASEMENT			
NO.	BEARING	DISTANCE	
1	N 16° 47' 42" E	21.36'	
2	S 78° 13' 29" E	20.00'	
3	N 84° 27' 25" W	22.98'	

LEGENDS:

- IRON PIN SET THIS SURVEY
- IRON PIN FOUND
- RIGHT-OF-WAY/PROPERTY LINE
- 560 INDEX CONTOURS
- 1' INTERVAL
- OHE & T OVERHEAD ELECTRIC & TELEPHONE LINES
- OHE OVERHEAD ELECTRIC
- X X X FENCELINE

KY SPC (SOUTH ZONE)
 NAD 83 GRID NORTH



Scale 1" = 50'
 GRAPHIC SCALE
 (11" X 17" SHEET SIZE)

IN-GROUND DRAINAGE PIPE (DESTINATION UNKNOWN)

COREY M. & LISA BIDDLE
 DEED BOOK 380, PAGE 733
 (PARCEL 41-3D)

CENTERLINE OF PROPOSED TOWER LEASE AREA
 LATITUDE = 37° 54' 13.31"
 LONGITUDE = 86° 31' 40.29"
 ELEVATION = 579.00' N.A.V.D. 88

TOWERCO IV HOLDINGS LLC'S TOWER LEASE AREA

"POINT OF BEGINNING" TOWERCO IV HOLDINGS LLC'S JOINT ACCESS & UTILITY EASEMENT
 KY SPC (SOUTH ZONE)
 NAD 83 GRID COORDINATE
 NORTH 2,213,055.11
 EAST 1,415,761.11

COREY M. & LISA BIDDLE
 DEED BOOK 380, PAGE 733
 (PARCEL 41-3D)

TOWERCO IV HOLDINGS LLC'S JOINT ACCESS & UTILITY EASEMENT

JUSTIN TERRY POYNTER
 DEED BOOK 425, PAGE 341
 (PARCEL 41-3C)

UNDERGROUND UTILITIES
 CALL 2 WORKING DAYS
BEFORE YOU DIG
 KENTUCKY 1-800-752-6007
 UTILITIES PROTECTION SERVICE
 NON-MEMBERS MUST CALL DIRECTLY

UTILITY NOTE:

THIS SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS AND/OR MAPS PREPARED BY OTHERS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATION INDICATED. THEREFORE, RELIANCE UPON THE TYPE, SIZE AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY.

GPS SURVEY CERTIFICATION:

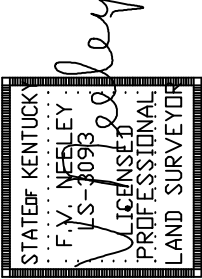
1. THIS SURVEY WAS PERFORMED USING RTK POSITIONAL DATA.
2. EQUIPMENT USED WAS A SOKKIA GRX3, DUAL FREQUENCY, BASE SERIAL # 1467-10585, ROVER SERIAL # 1467-10590.
3. THE GRID COORDINATES OF THE FIXED STATION(S) SHOWN WERE DERIVED USING A VRS NETWORK OF THE CORPS STATIONS REFERENCING NAD 83 (2011), (EPOCH 2010), GEOID 12B.
4. THE RELATIVE POSITIONAL ACCURACY OF THE GPS VECTORS DOES NOT EXCEED 0.1'H & 0.01" V.
5. BEARINGS ARE RELATIVE TO KENTUCKY (SOUTH ZONE) STATE PLANE. ALL REFERENCES TO GRID BEARINGS AND KENTUCKY (SOUTH ZONE) STATE PLANE COORDINATES AS INDICATED ARE UNADJUSTED, NAD 83 SURVEY FEET, WITH CONVERGENCE ANGLE OF 0.28992778 DEGREES, A SCALE FACTOR OF 0.99982120 DEGREES, AND A COMBINED FACTOR OF 0.99959845 DEGREES.

SPECIAL NOTE:

THIS SURVEY PLAN WAS PERFORMED UNDER THE AUTHORITY OF KENTUCKY REVISED STATUTES (201 KAR 18.150), AND IS NOT TO BE CONSIDERED A GENERAL PROPERTY BOUNDARY SURVEY AS DEFINED WITHIN KENTUCKY REVISED STATUTES. DIMENSIONS (IF SHOWN) ALONG THE PERIMETER OF THE LANDOWNER'S PROPERTY ARE PROVIDED UNDER THIS SURVEYOR'S SCOPE OF SERVICES WITH TOWERCO IV HOLDINGS, LLC, AND ARE TO BE CONSIDERED FOR REFERENCE ONLY. THE EXACT LOCATION OF THE LANDOWNER'S PROPERTY MAY DIFFER UPON THE PREPARATION OF A FULL BOUNDARY SURVEY IN ACCORDANCE WITH REQUIREMENTS ESTABLISHED BY THE STATE OF KENTUCKY.

GENERAL NOTES:

1. I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THIS PLAT WAS PREPARED BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION OF THE TRAVERSE RATIO WAS 1:22,150, AND WAS NOT ADJUSTED. THE SURVEY AS SHOWN HEREON IS AN URBAN SURVEY, AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE SPECIFICATIONS OF THIS CLASS.
 F.V. Neeley
 FRANK V. NEELY, P.L.S. 3083
 DATE SEPTEMBER 14, 2023
2. TOPOGRAPHIC ELEVATIONS SHOWN WERE DERIVED FROM GRID CROSS-SECTIONS, USING A TOTAL STATION FOR HORIZONTAL AND VERTICAL CONTROL. ALL DISTANCES MEASURED HAVE BEEN ADJUSTED FOR TEMPERATURE.
4. PARCEL NUMBERS SHOWN THUS (00). REFER TO TAX MAP NO. 60, OF THE PROPERTY VALUATION OFFICE OF BRECKINRIDGE COUNTY, KENTUCKY.
5. BEARINGS SHOWN ARE REFERENCED FROM GLOBALLY POSITIONED SATELLITE MONUMENTS AS ESTABLISHED FOR THIS SURVEY.
6. PROPERTY OWNERS:
 COREY M. BIDDLE & LISA BIDDLE
 6070 HAYESVILLE ROAD
 GUSTON, KY 40142
7. IRON PINS SET ARE 18" MINIMUM LENGTH REINFORCING STEEL BARS WITH A PLASTIC CAPPED EMBOSSED "KY PLS #3093", UNLESS ROCK OR OTHER LIKE MATERIAL IS ENCOUNTERED.
8. DATE OF FIELD SURVEY: TUESDAY, SEPTEMBER 5, 2023.
9. NOT VALID WITHOUT THE ORIGINAL SIGNATURE OF THE PROFESSIONAL LICENSED SURVEYOR.
 PLOT DATE: SEPTEMBER 13, 2023



SHARONDALE SURVEYING
 NC.
 161 MARTIN ROAD
 BON AQUA, TN 37025
 (615) 513-0032
 E-Mail: Sharonda@bellsouth.net

TOWERCO IV HOLDINGS LLC SITE SURVEY: KENTUCKY
 LOCATED IN: BRECKINRIDGE COUNTY, TENNESSEE
 PREPARED FOR: TOWERCO IV HOLDINGS, LLC
 TOWER LEASE AREA SURVEY
 TOWERCO IV HOLDINGS LLC SITE NUMBER: KY-0110

SHEET NUMBER:
1 OF 2
 PROJECT NUMBER:
223.088.20

**TOWERCO IV HOLDINGS LLC'S
TOWER LEASE AREA DESCRIPTION**

Beginning at a capped "Sharondale Nashville" iron pin set at the northwest corner of TowerCo IV Holdings LLC's tower lease area located at Kentucky State Plane (South Zone) NAD 83 Grid Coordinate North 2,213,170.21, East 1,415,938.67;

Thence, South 78 degrees 13 minutes 29 seconds East, 100.00 feet to a capped "Sharondale Nashville" iron pin set at the northeast corner of TowerCo IV Holdings LLC's tower lease area;

Thence, South 11 degrees 46 minutes 31 seconds West, 100.00 feet to a capped "Sharondale Nashville" iron pin set at the northwest corner of TowerCo IV Holdings LLC's tower lease area;

Thence, North 78 degrees 13 minutes 29 seconds West, 100.00 feet to a capped "Sharondale Nashville" iron pin set at the southwest corner of TowerCo IV Holdings LLC's tower lease area;

Thence, North 11 degrees 46 minutes 31 seconds East, 100.00 feet to the point of beginning, containing 10,000 square feet, (0.23 acres).

Being a portion of the property conveyed to Corey M. Biddle and wife, Lisa Biddle, of record in Deed Book 380, Page 733, of the Court Clerk's Office of Breckinridge County, Kentucky.

**TOWERCO IV HOLDINGS LLC'S JOINT
ACCESS & UTILITY EASEMENT AREA DESCRIPTION**

Being a variable width joint access utility easement extending from the east margin of Kentucky State Highway 2279 to the west margin of TowerCo IV Holdings LLC's tower lease area, being more particularly described as follows:

Beginning at a capped "Sharondale Nashville" iron pin set in the east margin of Kentucky State Highway 2279 located at Kentucky State Plane (South Zone) NAD 83 Grid Coordinate North 2,213,055.51, East 1,415,766.51;

Thence, with the east margin of Kentucky State Highway 2279, North 16 degrees 20 minutes 38 seconds East, 21.36 feet to a capped "Sharondale Nashville" iron pin set;

Thence, leaving the east margin of Kentucky State Highway 2279, North 85 degrees 48 minutes 17 seconds East, 37.21 feet to a point;

Thence, North 79 degrees 19 minutes 50 seconds East, 94.85 feet to a point;

Thence, North 11 degrees 46 minutes 31 seconds East, 79.68 feet to a point;

Thence, South 78 degrees 13 minutes 29 seconds East, 20.00 feet to a capped capped "Sharondale Nashville" iron pin set at the northwest corner of TowerCo IV Holdings LLC's tower lease area;

Thence, with the west margin of TowerCo IV Holdings LLC's tower lease area, South 11 degrees 46 minutes 31 seconds West, 100.00 feet to capped "Sharondale Nashville" iron pin set at the southwest corner of TowerCo IV Holdings LLC's tower lease area;

Thence, leaving the west margin of TowerCo IV Holdings LLC's tower lease area, North 84 degrees 27 minutes 25 seconds West, 22.98 feet to a point;

Thence, South 79 degrees 19 minutes 50 seconds West, 84.64 feet to a point;

Thence, South 85 degrees 48 minutes 17 seconds West, 45.83 feet to the point of beginning, containing 4,679 square feet, (0.107 acres).

Being a portion of the property conveyed to Corey M. Biddle and wife, Lisa Biddle, of record in Deed Book 380, Page 733, of the Court Clerk's Office of Breckinridge County, Kentucky.

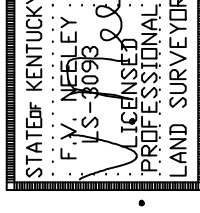
UNDERLYING LANDOWNER'S PROPERTY AREA DESCRIPTION

Being Parcel #20 (6.730 acres), as shown on plat of Stanley Williams Farm Division, Section 1, recorded in Plat Cabinet B, Slide 87, in Breckinridge County Clerk's Office.

**SURVEYOR'S REVIEW OF
"SPECIAL EXCEPTIONS"**

NOTES CORRESPONDING TO U.S. TITLE SOLUTIONS' "REPORT OF TITLE"
FILE NO. U5775682, ISSUED AUGUST 10, 2023.

- 4.1 — RIGHT OF WAY BY TIMOTHY HART AND JENNIFER L. HART TO CITY OF HARDINSBURG, OF RECORD IN DEED BOOK 332, PAGE 627, OF THE REGISTER'S OFFICE OF BRECKINRIDGE COUNTY, KENTUCKY, IS NOT APPLICABLE TO TOWERCO IV HOLDINGS LLC'S TOWER EASE AND EASEMENT AREA INTERESTS.
- 5.1 — RECORD PLAT OF THE STANLEY WILLIAMS FARM DIVISION, SECTION 1, OF RECORD IN PLAT BOOK B, PAGE 87, OF THE REGISTER'S OFFICE OF BRECKINRIDGE COUNTY, KENTUCKY, DOES NOT ADVERSELY AFFECT TOWERCO IV HOLDINGS LLC'S TOWER EASE AND EASEMENT AREA INTERESTS.



F.

ley



1961 NORTHPOINT BLVD.
SUITE 130
HIKSON, TN 37343
PH : 423-843-9500
FAX : 423-843-9509

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE CLIENT IS STRICTLY PROHIBITED.

DRAWN BY: TDD
CHECKED BY: SEH

REVISIONS

#	DATE	BY	DESCRIPTION
0	04/12/24	PLS	ZONING ISSUE
B	01/15/24	PLS	ZONING ISSUE
A	10/05/23	MJB	ZONING ISSUE

FOR REFERENCE

FUZE ID : TBD

SITE NAME : CK STEPHENSPORT COW RELO

SITE # / LOCATION CODE : 725001

SITE ADDRESS : TBD KENTUCKY STATE HWY 2779 STEPHENSPORT, KY 40170

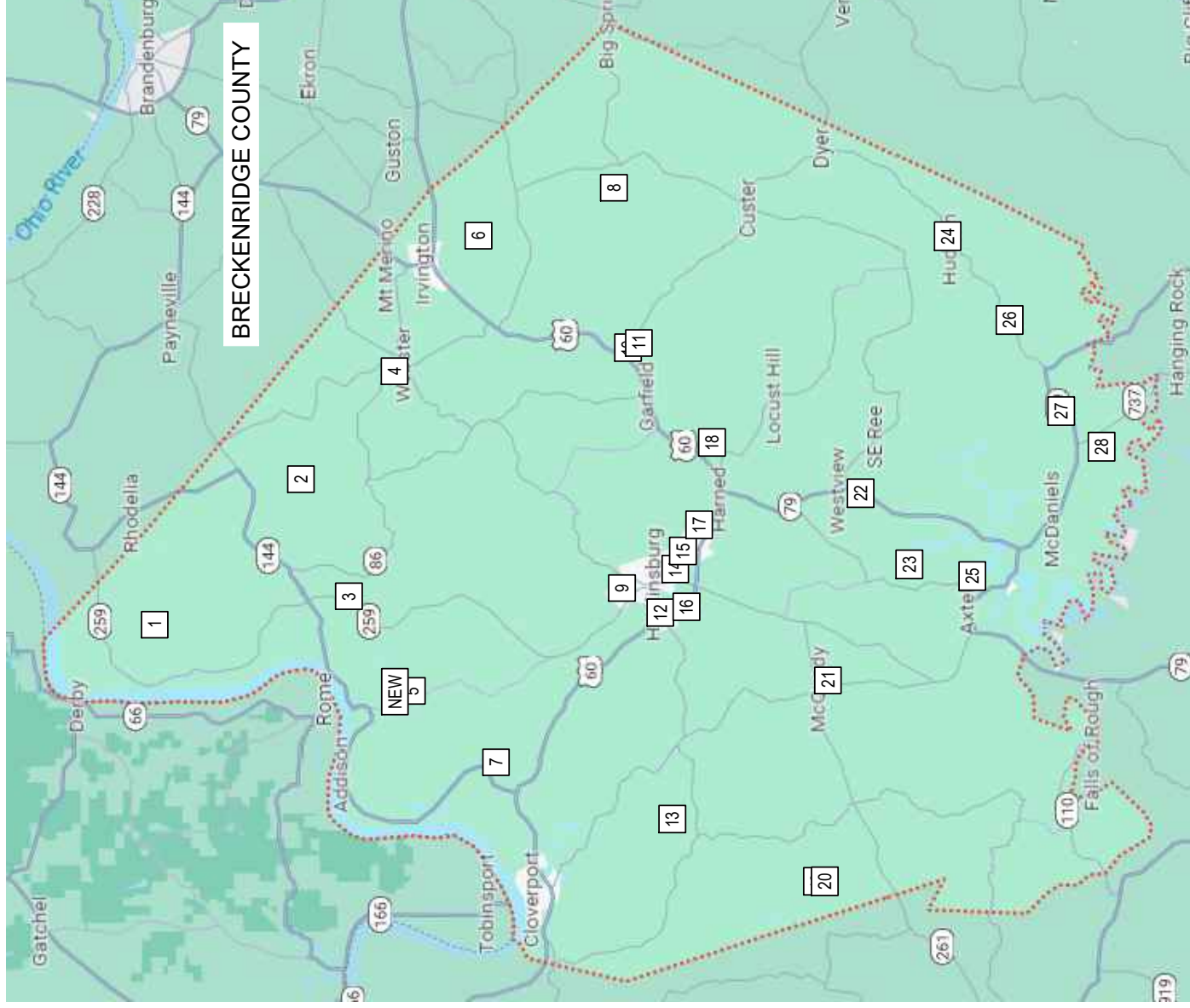
SITE TYPE : RAWLAND

SHEET TITLE : COUNTY TOWER MAP

DRAWING # : Z1
REVISION : 0

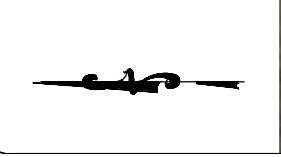
FCC REGISTERED SITES (LAUREL COUNTY)

TOWER	ASR	LATITUDE	LONGITUDE	TOWER OWNER
1	1305108	38° 1'12.90"N	86° 29'39.90"W	VERIZON WIRELESS
2	1043429	37° 57'6.10"N	86° 24'38.30"W	CROWN CASTLE
3	1291561	37° 55'53.10"N	86° 28'37.70"W	AMERICAN TOWER
4	1200734	37° 54'35.00"N	86° 20'47.00"W	BIG RIVERS ELECTRIC CORPORATION
5	1304239	37° 54'7.50"N	86° 31'56.20"W	VERIZON WIRELESS
6	1043896	37° 52'17.80"N	86° 16'3.50"W	SKYWAY TOWERS
7	TOWER	37° 51'29.00"N	86° 34'21.00"W	KENTUCKY EMERGENCY WARNING SYSTEM
8	1050176	37° 48'32.00"N	86° 14'25.00"W	TELAVA WIRELESS, INC
9	1215268	37° 48'20.20"N	86° 28'22.40"W	CROWN CASTLE SOUTH LLC
10	1270783	37° 48'8.30"N	86° 20'0.20"W	SBA MONARCH TOWER III, LLC
11	1043043	37° 47'53.00"N	86° 19'51.00"W	VERIZON WIRELESS
12	1225776	37° 9' 20.77" N	84° 6' 22.9" W	TEXAS GAS TRANSMISSION, LLC
13	1200816	37° 46'57.80"N	86° 36'26.30"W	THE CROMWELL GROUP, INC
14	1061965	37° 46'51.00"N	86° 27'42.00"W	COUNTY OF BRECKENRIDGE
15	1261014	37° 46'45.50"N	86° 26'56.50"W	BIG RIVERS ELECTRIC CORPORATION
16	1200744	37° 46'34.00"N	86° 28'60.00"W	BIG RIVERS ELECTRIC CORPORATION
17	1042282	37° 46'14.20"N	86° 26'6.90"W	BRECKENRIDGE BROADCASTING CO INC
18	1305582	37° 45'52.70"N	86° 23'17.90"W	TILLMAN INFRASTRUCTURE, LLC
19	1315005	37° 42'44.40"N	86° 31'34.60"W	TVT I, LLC
20	1050174	37° 42'44.00"N	86° 38'42.00"W	TELAVA WIRELESS, INC
21	1272916	37° 42'39.30"N	86° 31'34.60"W	VERIZON WIRELESS
22	1262107	37° 41'44.80"N	86° 25'6.20"W	VERIZON WIRELESS
23	1025097	37° 40'25.20"N	86° 27'31.70"W	CROWN CASTLE SOUTH LLC
24	1044834	37° 39'21.00"N	86° 16'11.00"W	KENTUCKY EMERGENCY WARNING SYSTEM
25	1274759	37° 38'36.30"N	86° 27'59.90"W	SBA TOWERS VI, LLC
26	1043452	37° 37'37.80"N	86° 19'2.00"W	TOWER ASSETS NEWCO IX, LLC
27	1214128	37° 36'6.20"N	86° 22'12.90"W	BETHEL FELLOWSHIP, INC
28	1268315	37° 35'8.10"N	86° 23'28.80"W	SBA MONARCH TOWERS III, LLC
NEW	TBD	37° 54'13.31"N	86° 31'40.29"W	TOWERCO



COUNTY TOWER MAP





HUTCHISON ABBIE ANN
12204 N HWY 259,
HARDINSBURG, KY 40143
PARCEL NO. 41-3A

PULLEN C P HEIRS
99 BLACKLICK CHURCH LN,
FALLS OF ROUGH, KY 40119
PARCEL NO. 41-4

PEVELER WILLIAM DWIGHT & DANA M
2919 LAURA LYNN LN,
NEWBURGH, IN 47630
PARCEL NO. 41-12A

PARENT PARCEL:
COREY M. & LISA BIDDLE
PARCEL NO. 41-3D
DEED BOOK 380, PAGE 733
MAILING ADDRESS:
6070 HAYSVILLE RD
GUSTON, KY 40142-7096

KENTUCKY STATE
HIGHWAY 2779
EXISTING
RIGHT OF
WAY

60'-0"

R500'-0"

EXISTING
RESIDENCE

BIDDLE COREY M
6070 HAYESVILLE RD,
GUSTON, KY 40142,
PARCEL NO. 41-3J-1

R200'-0"

JUSTIN TERRY POYNTER
PARCEL NO. 41-3C
DEED BOOK 425, PAGE 341

PROPOSED TOWERCO
20'(W) ACCESS AND
UTILITY EASEMENT

PROPOSED TOWERCO
12'(W) GRAVEL DRIVE

EXISTING
POWER
POLE

EXISTING
PROPERTY
LINE

EXISTING
TREELINE, TYP.

EXISTING
PROPERTY
LINE

EXISTING
PROPERTY
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EXISTING
PROPERTY
LINE

EXISTING
PROPERTY
LINE

314'-3"

PROPOSED TOWERCO
100' x 100' LEASE AREA

PROPOSED TOWERCO
75' x 75' FENCED COMPOUND

PROPOSED TOWERCO
195'-0" MONOPOLE

EXISTING
RIGHT OF
WAY

193'-3"

EXISTING
RIGHT OF
WAY

EXISTING
RIGHT OF
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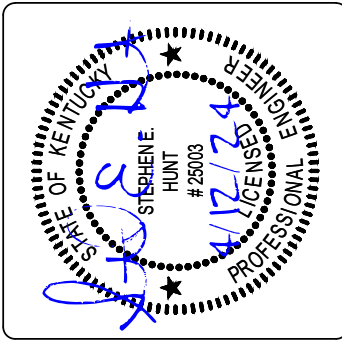
REVISIONS

#	DATE	BY	DESCRIPTION
A	10/05/23	MJB	ZONING ISSUE
B	01/15/24	PLS	ZONING ISSUE
0	04/12/24	PLS	ZONING ISSUE

DRAWN BY: TDD

CHECKED BY: SEH

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OR DISCLOSURE OTHER THAN THAT
WHICH RELATES TO THE CLIENT IS
STRICTLY PROHIBITED.



FUZE ID: TBD

SITE NAME:
CK STEPHENSPORT COW RELO

SITE # / LOCATION CODE:
725001

SITE ADDRESS:
TBD KENTUCKY STATE HWY 2779
STEPHENSSPORT, KY 40170

SITE TYPE:
RAWLAND

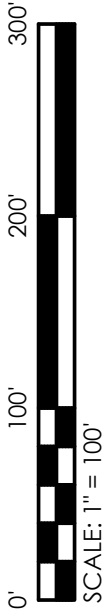
SHEET TITLE:
OVERALL SITE LAYOUT

DRAWING #: Z2
REVISION: 0

POYNTER JUSTIN TERRY
PO BOX 51,
STEPHENSSPORT, KY 40170
PARCEL NO. 41-12F-2

POYNTER JUSTIN TERRY
PO BOX 51,
STEPHENSSPORT, KY 40170
PARCEL NO. 41-3C

CARMAN ROBERT D
6207 HWY 2779,
HARDINGSBURG, KY 40143
PARCEL NO. 41-3



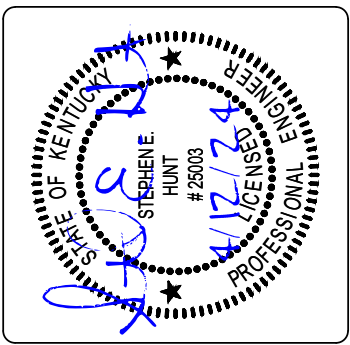



1961 NORTHPOINT BLVD.
SUITE 130
HIYSON, TN 37343
PH : 423-843-9500
FAX : 423-843-9509

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DRAWN BY	TDD
CHECKED BY	SEH

REVISIONS			
#	DATE	BY	DESCRIPTION
0	04/12/24	PLS	ZONING ISSUE
B	01/15/24	PLS	ZONING ISSUE
A	10/05/23	MJB	ZONING ISSUE

FUZE ID : TBD

SITE NAME : CK STEPHENSPORT COW RELO

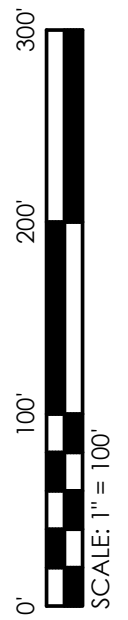
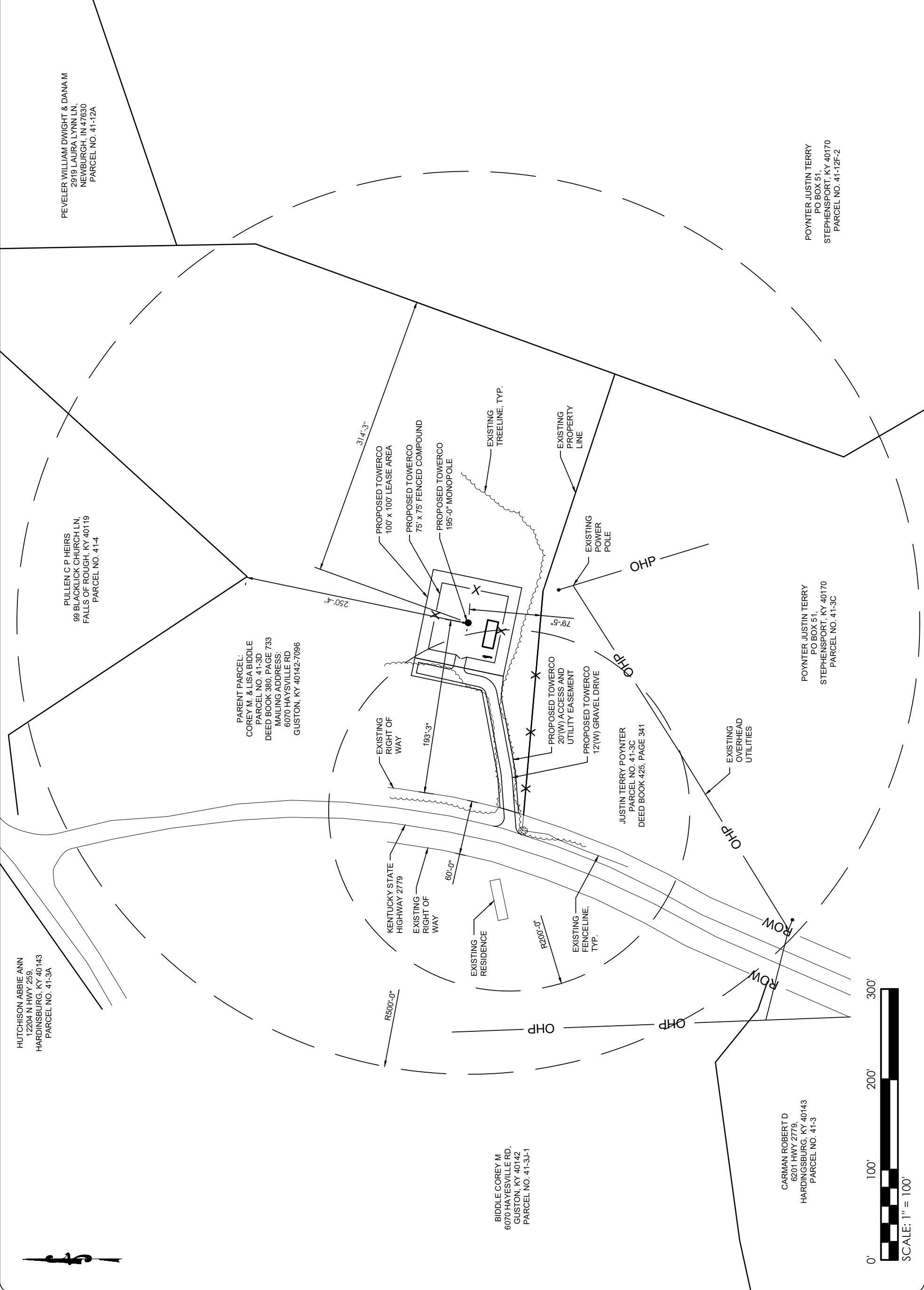
SITE # / LOCATION CODE : 725001

SITE ADDRESS : TBD KENTUCKY STATE HWY 2779 STEPHENSPORT, KY 40170

SITE TYPE : RAWLAND

SHEET TITLE : OVERALL SITE LAYOUT

DRAWING # :	Z3	REVISION :	0
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HUTCHISON ABBIE ANN
12204 N HWY 259,
HARDINSBURG, KY 40143
PARCEL NO. 41-3A

PULLEN C P HEIRS
99 BLACKLICK CHURCH LN,
FALLS OF ROUGH, KY 40119
PARCEL NO. 41-4

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PARCEL NO. 41-3D
DEED BOOK 380, PAGE 733
MAILING ADDRESS:
6070 HAYSVILLE RD
GUSTON, KY 40142-7086

BIDDLE COREY M
6070 HAYSVILLE RD,
GUSTON, KY 40142
PARCEL NO. 41-3J-1

CARMAN ROBERT D
6201 HWY 2779,
HARDINSBURG, KY 40143
PARCEL NO. 41-3

POYNTER JUSTIN TERRY
PO BOX 51,
STEPHENSSPORT, KY 40170
PARCEL NO. 41-3C

POYNTER JUSTIN TERRY
PO BOX 51,
STEPHENSSPORT, KY 40170
PARCEL NO. 41-12F-2

PEVELER WILLIAM DWIGHT & DANA M
2919 LAURA LYNN LN,
NEWBURGH, IN 47630
PARCEL NO. 41-12A

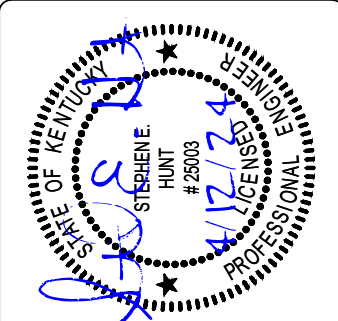


1961 NORTHPOINT BLVD.
SUITE 130
HIXSON, TN 37343
PH : 423-843-9500
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DRAWN BY	TDD
CHECKED BY	SEH

REVISIONS	
0	04/12/24 PLS ZONING ISSUE
B	01/15/24 PLS ZONING ISSUE
A	10/05/23 MJB ZONING ISSUE
#	DATE BY DESCRIPTION



FUZE ID : TBD

SITE NAME :
CK STEPHENSSPORT COW RELO

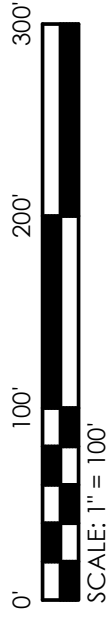
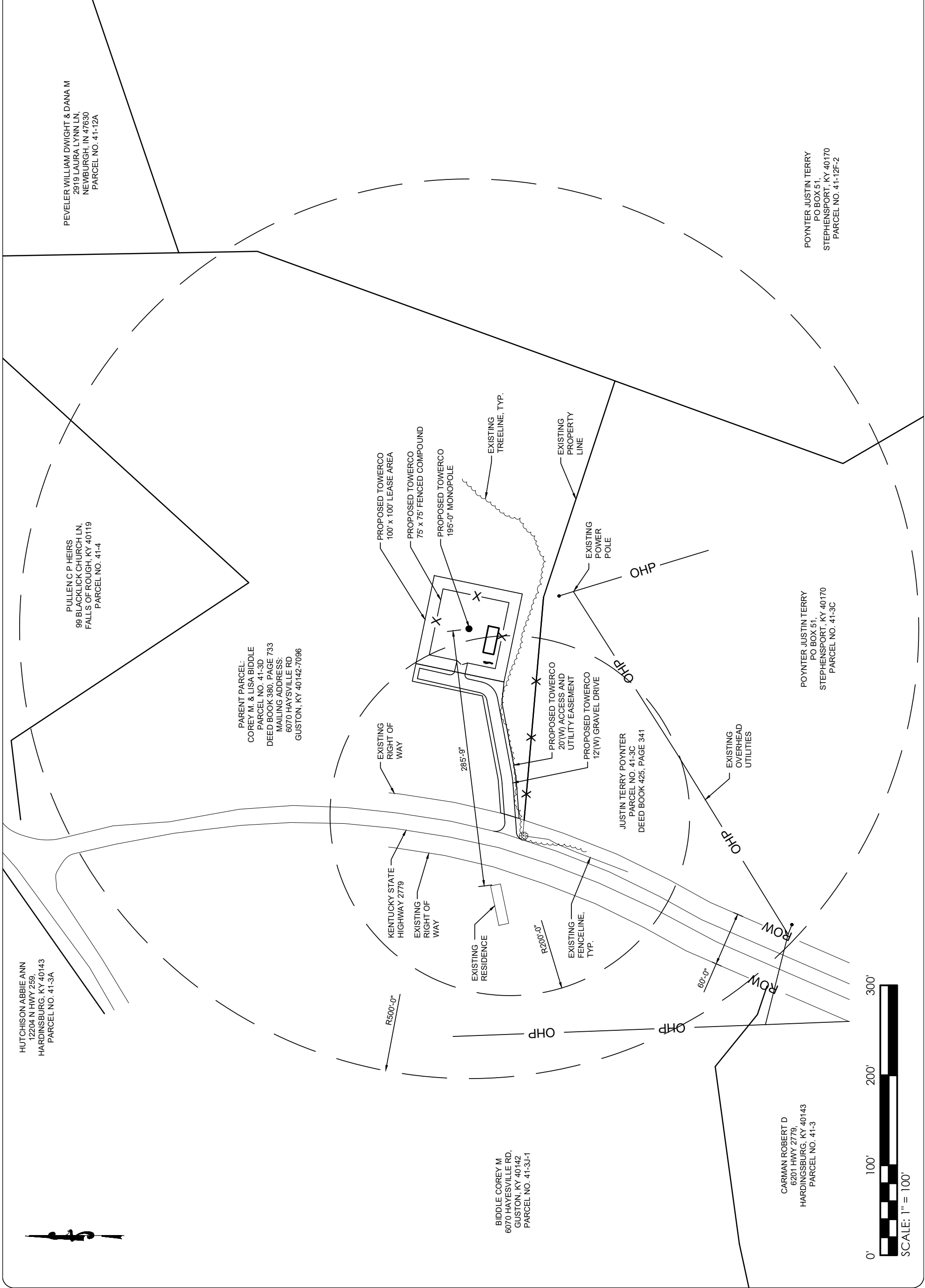
SITE # / LOCATION CODE :
725001

SITE ADDRESS :
TBD KENTUCKY STATE HWY 2779
STEPHENSSPORT, KY 40170

SITE TYPE :
RAWLAND

SHEET TITLE :
SITE PLAN

DRAWING # :	REVISION :
Z4	0



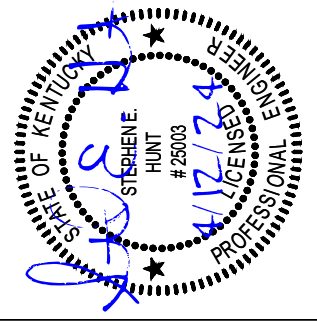


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DRAWN BY	TDD
CHECKED BY	SEH

REVISIONS	
#	DESCRIPTION
0	04/12/24 PLS ZONING ISSUE
B	01/15/24 PLS ZONING ISSUE
A	10/05/23 MJB ZONING ISSUE



FUZE ID :	TBD
SITE NAME :	CK STEPHENSPORT COW RELO
SITE # / LOCATION CODE :	725001

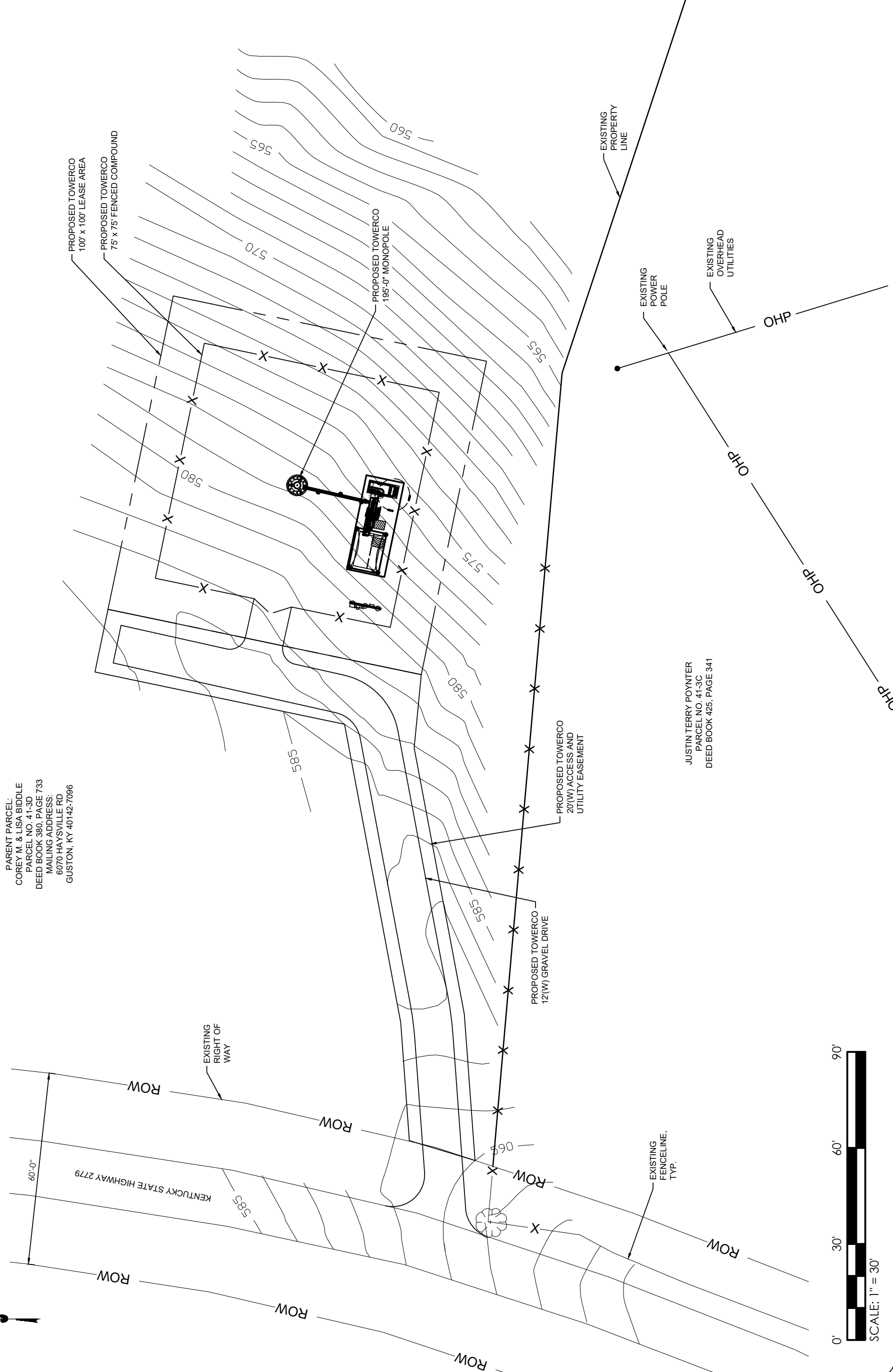
SITE ADDRESS :	TBD KENTUCKY STATE HWY 2779 STEPHENSFORT, KY 40170
SITE TYPE :	RAWLAND

SHEET TITLE :	EROSION CONTROL SITE PLAN
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DRAWING # :	Z5	REVISION :	0
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PARENT PARCEL:
COREY M. & LISA BIDDLE
PARCEL NO. 41-3D
DEED BOOK 380, PAGE 733
MAILING ADDRESS:
6070 HAYSVILLE RD
GUSTON, KY 40142-7096

JUSTIN TERRY POYNTER
PARCEL NO. 41-3C
DEED BOOK 425, PAGE 341



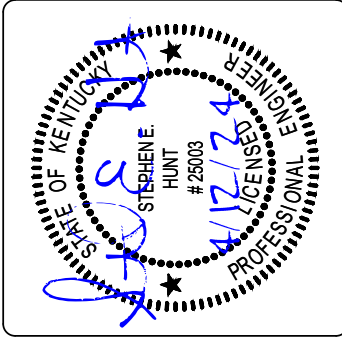


1961 NORTHPOINT BLVD.
SUITE 130
HIXSON, TN 37343
PH : 423-843-9500
FAX : 423-843-9509

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REVISIONS	
#	DESCRIPTION
0	04/12/24 PLS ZONING ISSUE
B	01/15/24 PLS ZONING ISSUE
A	10/05/23 MJB ZONING ISSUE



FUZE ID : TBD

SITE NAME : CK STEPHENSPORT COW RELO

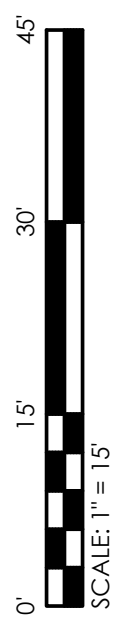
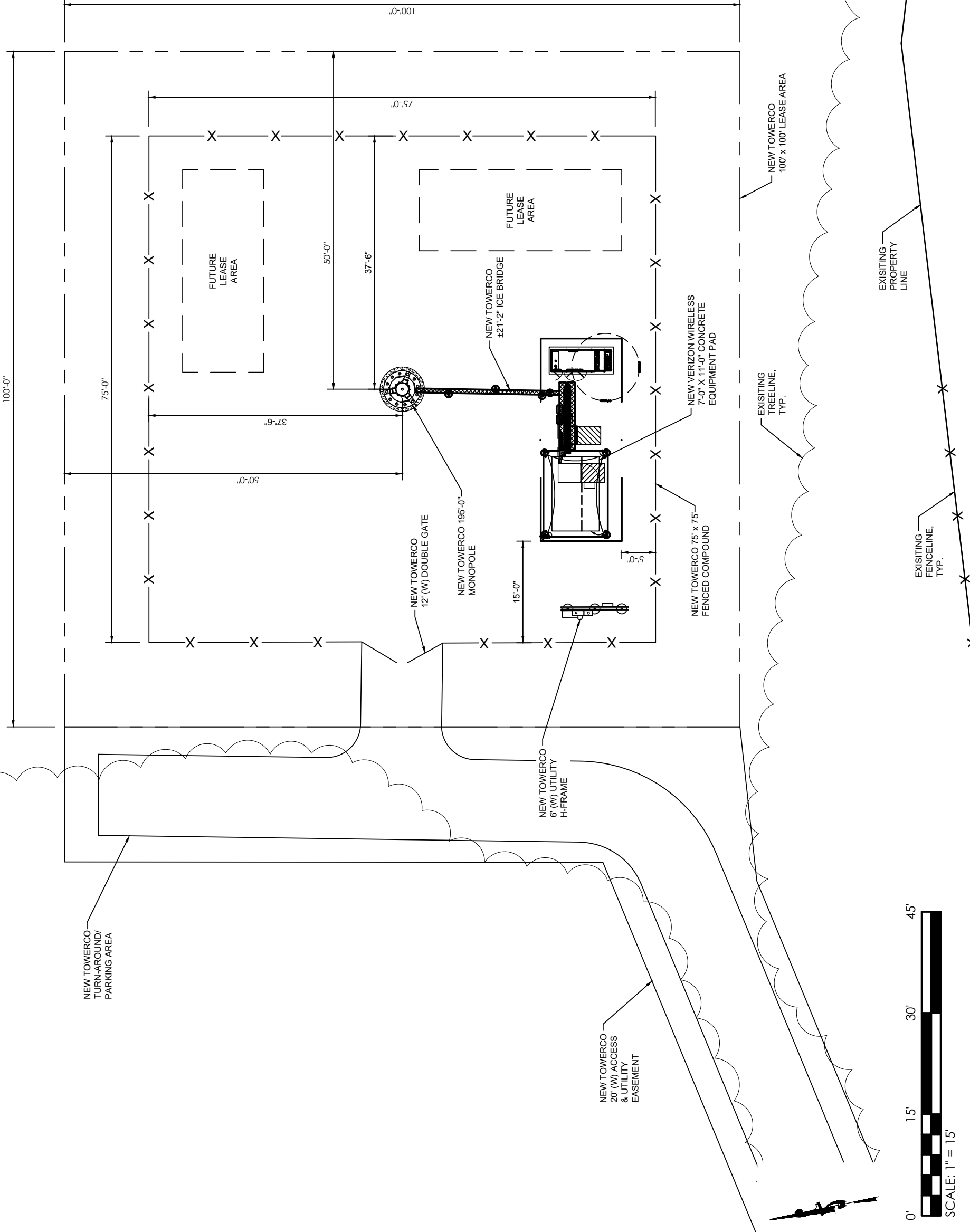
SITE # / LOCATION CODE : 725001

SITE ADDRESS : TBD KENTUCKY STATE HWY 2779 STEPHENSPORT, KY 40170

SITE TYPE : RAWLAND

SHEET TITLE : DIMENSION SITE PLAN

DRAWING # :	Z6	REVISION :	0
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REVISIONS	
#	DESCRIPTION
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B	01/15/24 PLS ZONING ISSUE
A	10/05/23 MJB ZONING ISSUE

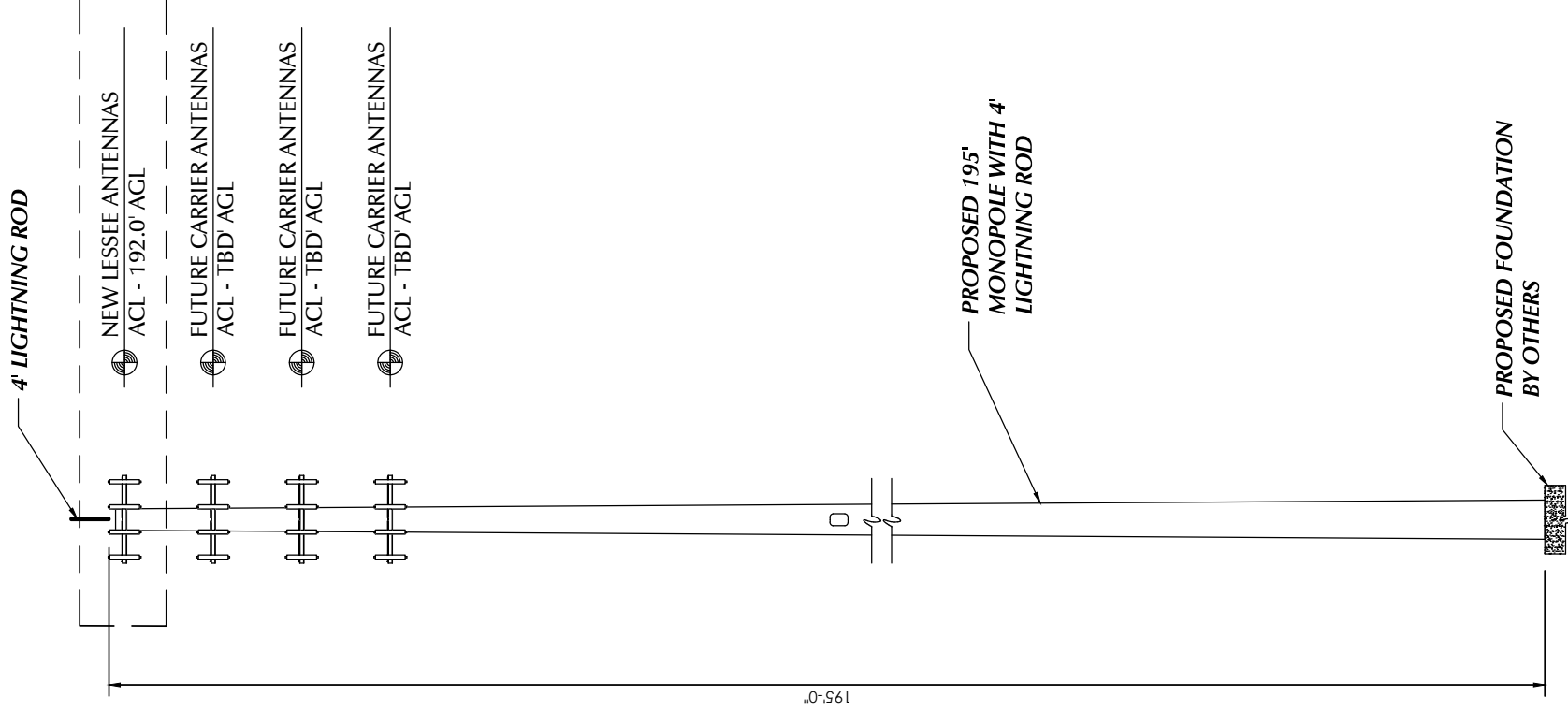
FUZE ID :	TBD
SITE NAME :	CK STEPHENSPORT COW RELO
SITE # / LOCATION CODE :	725001

SITE ADDRESS :
TBD KENTUCKY STATE HWY 2779
STEPHENSFORT, KY 40170

SITE TYPE: RAWLAND

SHEET TITLE :
TOWER ELEVATION

DRAWING # :	Z7	REVISION :	0
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STRUCTURAL NOTES:

1. STRUCTURAL ANALYSIS PERFORMED BY OTHERS. CONTRACTOR TO COORDINATE WITH TOWER OWNER REPRESENTATIVE TO OBTAIN A COPY OF THE STRUCTURAL REPORT.
2. LINES AND ANTENNAS WORK SHALL NOT COMMENCE WITHOUT A PASSING STRUCTURAL REPORT IN HAND.

TOWER ELEVATION
NTS

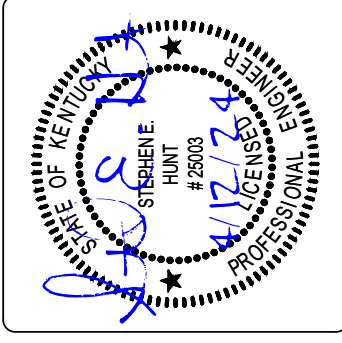


1961 NORTHPOINT BLVD.
SUITE 130
HIXSON, TN 37343
PH : 423-843-9500
FAX : 423-843-9509

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DRAWN BY	TDD
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REVISIONS	
#	DESCRIPTION
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B	01/15/24 PLS ZONING ISSUE
A	10/05/23 MJB ZONING ISSUE

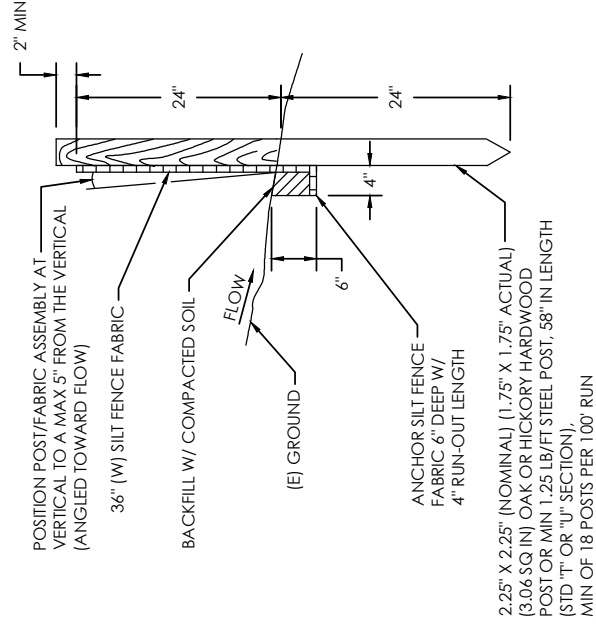


FUZE ID :	TBD
SITE NAME :	CK STEPHENSPORT COW RELO
SITE # / LOCATION CODE :	725001

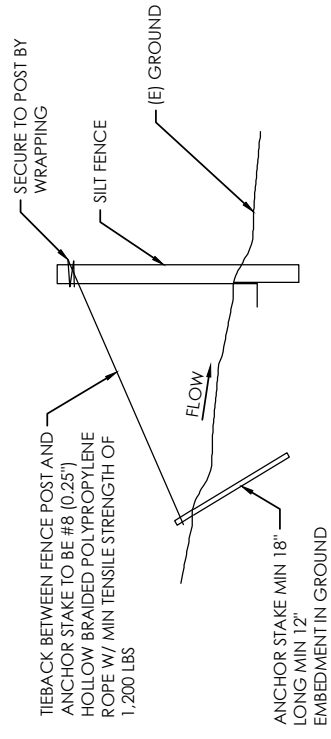
SITE ADDRESS :	TBD KENTUCKY STATE HWY 2779 STEPHENSFORT, KY 40170
SITE TYPE :	RAWLAND

SHEET TITLE :	SITE DETAILS
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DRAWING # :	Z8	REVISION :	0
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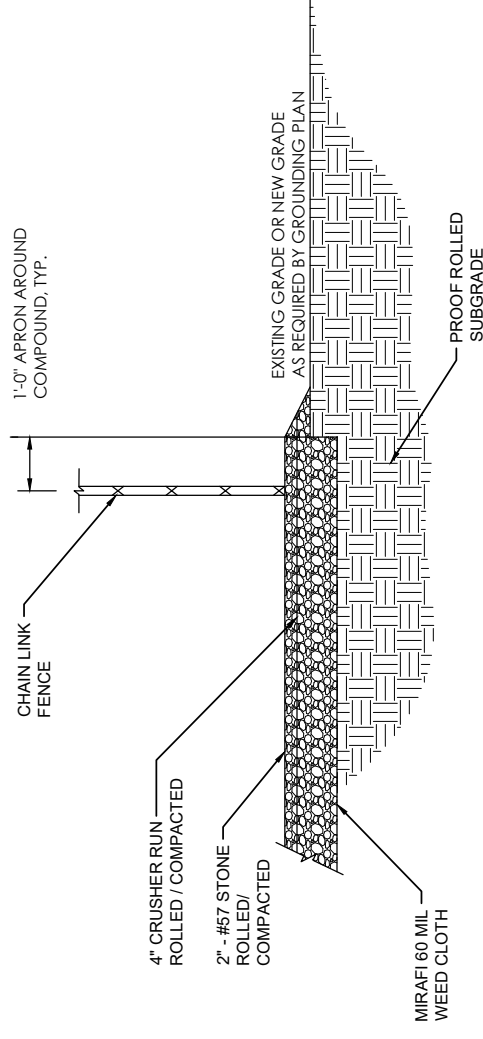
SECTIONAL VIEW



SILT FENCE TIEBACK FOR STEEL OR WOOD POSTS

SILT FENCE DETAIL 1

COMPOUND SURFACING 2



TYPICAL WOVEN WIRE FENCING NOTES:

- (INSTALL FENCING PER ASTM F-567, SWING GATES PER ASTM F-900)
- GATE POST, CORNER, TERMINAL OR PULL POST SHALL BE 3/8" SCHEDULE 40 FOR GATE WIDTHS UP THRU 7 FEET OR 1/4 FEET FOR DOUBLE SWING GATE PER ASTM-F1083.
- LINE POST: 2"Ø SCHEDULE 40 PIPE PER ASTM-F1083. INSTALL EVERY 8'-0" ALONG FENCE LINE.
- GATE FRAME: 1-1/2"Ø SCHEDULE 40 PIPE, STEEL, HOT-DIPPED ZINC COATED (GALVANIZED) WELDED STEEL PIPE PER ASTM-F1083.
- TOP RAIL & BRACE RAIL: 1-5/8"Ø SCHEDULE 40 PIPE PER ASTM-F1083.
- CHAIN LINK FABRIC: 9 GA. MIN. CORE WIRE SIZE 2" MESH, CONFORMING TO ASTM-A392.
- TIE WIRE: MINIMUM 11 GA. GALVANIZED STEEL INSTALL A SINGLE WRAP TIE WIRE AT POSTS AND RAILS AT MAX. 24" INTERVALS. INSTALL HOG RINGS ON TENSION WIRE AT 24" INTERVALS.
- TENSION WIRE: 7 GA. GALVANIZED STEEL
- BARBED WIRE: DOUBLE STRAND 12-1/2" GA. TWISTED WIRE, 4 PT. BARBS SPACED ON APPROXIMATELY 5" CENTERS. (IF USED)
- GATE LATCH: 1-3/8" OD PLUNGER ROD W/ MUSHROOM TYPE CATCH AND LOCK (KEYED ALIKE FOR ALL SITES OR COMBINATION AS SPECIFIED BY OWNER)
- LOCAL ORDINANCE FOR BARBED WIRE PERMIT SHALL GOVERN INSTALLATION.
- HEIGHT= 8' VERTICAL + 1' BARBED WIRE VERTICAL DIMENSION. WORK WITH SPECIFICATION 2881.

CHECK LOCAL CODES FOR BARBED WIRE REQUIREMENTS.



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REVISIONS	
0	04/12/24 PLS ZONING ISSUE
B	01/15/24 PLS ZONING ISSUE
A	10/05/23 MJB ZONING ISSUE
#	DATE BY DESCRIPTION

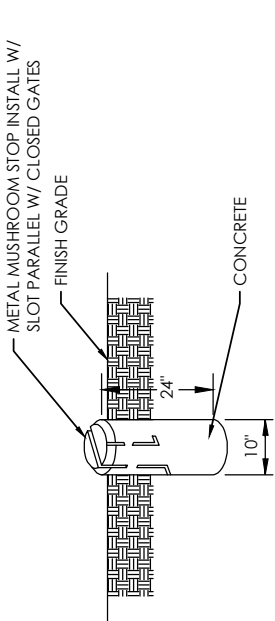


FUZE ID :	TBD
SITE NAME :	CK STEPHENSPORT COW RELO
SITE # / LOCATION CODE :	725001

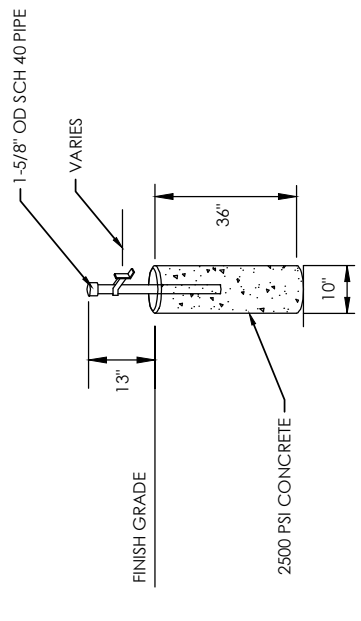
SITE ADDRESS :	TBD KENTUCKY STATE HWY 2779 STEPHENSPORT, KY 40170
SITE TYPE :	RAWLAND

SHEET TITLE :	SITE DETAILS
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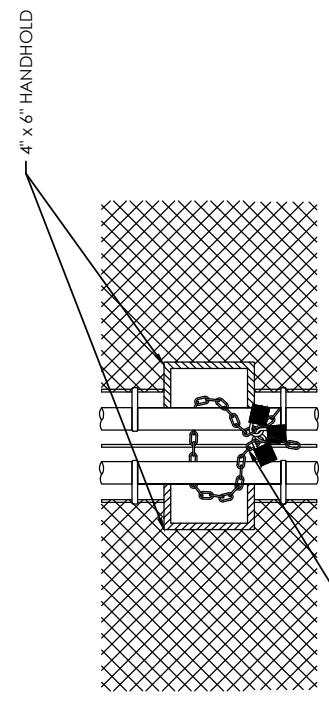
DRAWING # :	Z9	REVISION :	0
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MUSHROOM STOP
NTS

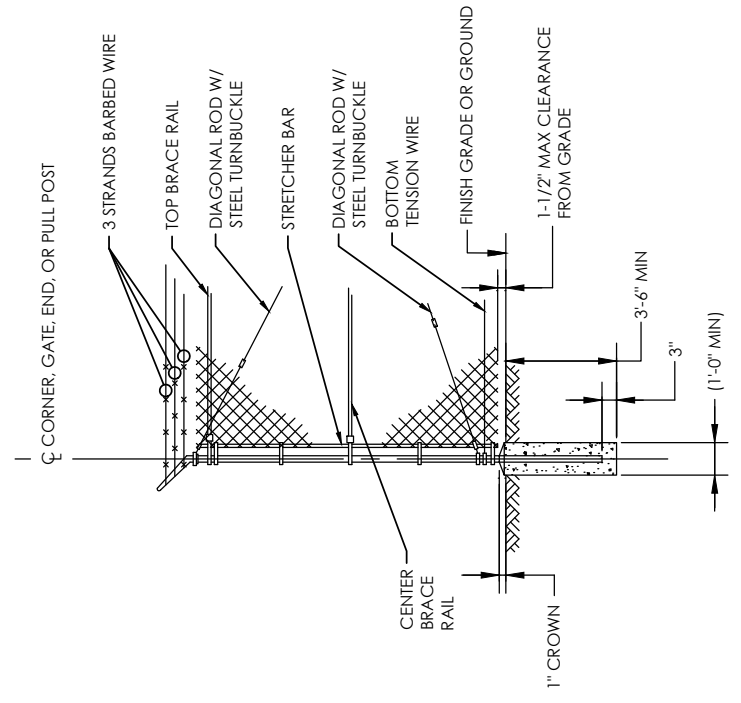


GATE STOP DETAIL
NTS

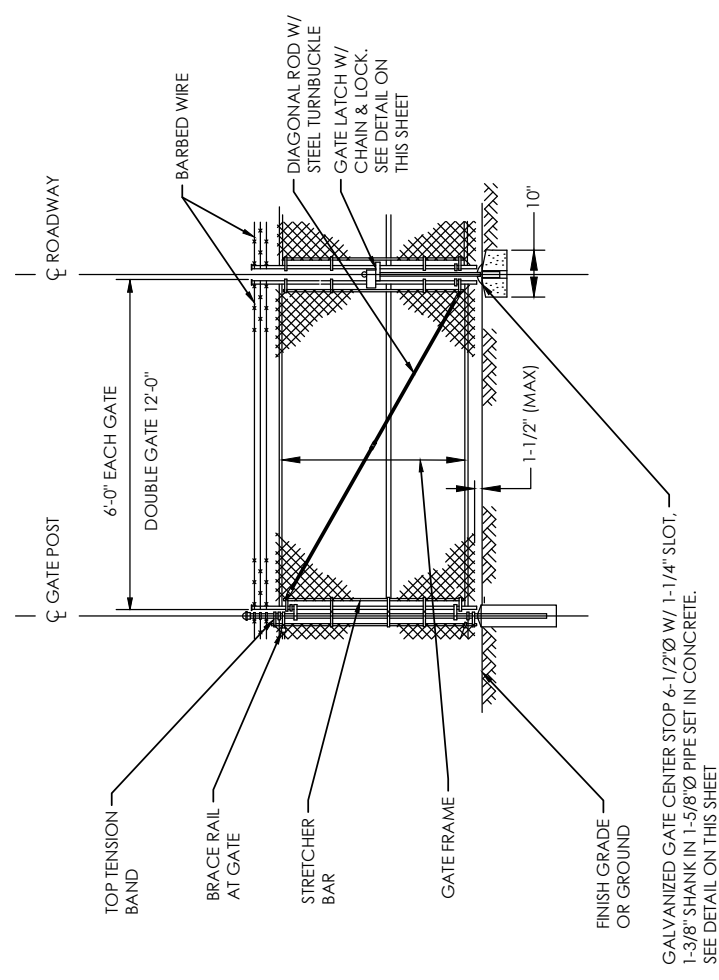


FENCE LOCK DETAIL
NTS

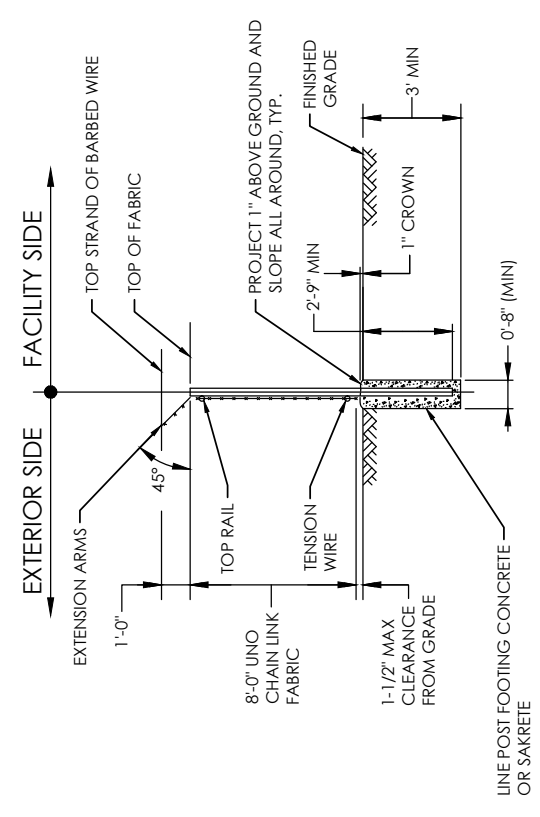
CONTRACTOR TO SUPPLY & INSTALL A 3/8" x 3/8" FORGED ZINC COATED CHAIN W/ A FOUR DIGIT COMBO MASTER LOCK W/ ELONGATED SHANK



WOVEN WIRE CORNER, GATE, END OR PULL POST
NTS



WOVEN WIRE DOUBLE GATE
NTS



TYPICAL SECTION

WOVEN WIRE FENCE
NTS

WOVEN WIRE CORNER, GATE, END OR PULL POST
NTS

WOVEN WIRE DOUBLE GATE
NTS



April 25, 2024

Stephen Rambeau
Vice President of Engineering
TowerCo
5000 Valleystone Drive
Cary, NC 27519

Subject

Foundation Design Calculations

TowerCo Designation

Site Number: KY0110
Site Name: CK Stephensport COW RELO
JIRA Ticket: ENG-38860

Engineering Firm Designation

Delta Oaks Group Project: STR24-20662-08
Delta Oaks Group Site Number: 17-00289

Site Data

Hwy 2779, Hardinsburg, Breckinridge County, KY 40143
Latitude 37.9037 ° ±; Longitude: -86.5279 ° ±
Elevation: 579 ft±, Topography Category 1;
Exposure Category "C"; Structure Class/Risk Category II;
195-ft Self-Supporting Pole Structure (Monopole)

Dear Stephen Rambeau,

To your request, we present our foundation design calculations. Our work is in conformance ANSI/TIA-222-G and 2018 Kentucky Building Code (2015 IBC) / ASCE 7-10 for:

- $V_{ult} = 115\text{-mph}$ / $V_{asd} = 89\text{-mph}$ three-second gust basic wind speed [per Eqn. 16-33 of the 2015 IBC]
- 30-mph three-second gust basic wind speed with 3/4-in radial ice
- Earthquake design parameters and loading including:
 - $S_s = 0.304\text{ g}$, $S_1 = 0.136\text{ g}$
- Seismic Design Category D

Delta Oaks Group appreciates the opportunity to be of service to TowerCo. Please do not hesitate to contact us if you have any questions or require any additional information.

Sincerely,



Michael L. Lassiter, SE, PE
VP | Chief Structural Engineer
KY PE License 24895

Attachments:
Foundation design calculations

PAD AND PIER FOUNDATION DESIGN
SELF-SUPPORTING POLE STRUCTURE
 ANS/TIA-222-G-2-2009 & ACI 318-05



INPUT

- Reactions:

$M_u := 9325.0 \text{ kip}\cdot\text{ft}$ = overturning moment at top of pier, factored
 $P_u := 91.5 \text{ kip}$ = axial load at top of pier
 $V_u := 64.5 \text{ kip}$ = shear load at top of pier

- Concrete:

$B_{\text{pad}} := 35.5 \text{ ft}$ = pad width (and length)
 $B_{\text{pier}} := 8.5 \text{ ft}$ = pier diameter
 $L_u := 6.0 \text{ in}$ = distance from top of pier to top of grade
 $z_{\text{pad}} := 6.0 \text{ ft}$ = pad depth
 $t_{\text{pad}} := 2.25 \text{ ft}$ = pad thickness
 $\gamma_c := 150 \text{ pcf}$ = density of concrete
 $f_c := 4000 \text{ psi}$ = design compressive strength of concrete

- Rebar:

$f_y := 60 \text{ ksi}$ = specified minimum yield strength of rebar
 $T_{\text{ie}} := \text{"\#5"}$ = size of tie rebar in pier
 $s_{\text{tie}} := 6 \text{ in}$ = spacing of tie rebar in pier
 $V_{\text{ert}} := \text{"\#9"}$ = size of vertical rebar in pier
 $n_{\text{vert}} := 58$ = number of vertical rebar in pier
 $L_{\text{vert_ext}} := 21 \text{ in}$ = length of vertical rebar extension in pad (assumed)
 $\text{cover}_{\text{top}} := 3.0 \text{ in}$ = cover from top edge of vertical to top of concrete in pier
 $\text{cover}_{\text{side}} := 3.0 \text{ in}$ = cover from outside edge of tie to edge of concrete in pier

Top_Horiz :=

#7	$s_{h_top} := 6 \text{ in}$	= size / max spacing of horizontal rebar in top of pad
#8		
#9		
#10		
#11		

 Bot_Horiz :=

#8	$s_{h_bot} := 6 \text{ in}$	= size / max spacing of horizontal rebar in bottom of pad
#9		
#10		
#11		
#14		

$\text{cover}_{\text{tb_pad}} := 3.0 \text{ in}$ = cover from outside edge of outside top/bottom horizontal to edge of concrete in pad
 $\text{cover}_{\text{end_pad}} := 3.0 \text{ in}$ = cover from outside end of horizontal to edge of concrete in pad
 $\text{clear}_{\text{template}} := 3.0 \text{ in}$ = clear distance from rebar cage and anchor bolt template

- Anchor Rods:

$d_{AR} := 2.25 \text{ in}$ = diameter of anchor rod
 $BC := 75.5 \text{ in}$ = bolt-circle diameter for anchor rods
 $d_{\text{template}} := 5.0 \text{ in}$ = anchor rod template width (assumed)
 $L_{AR} := 84.0 \text{ in}$ = total length of anchor rod
 $\text{proj}_{AR} := 12.0 \text{ in}$ = projection of anchor rod above top of concrete

- Pier Strength:

$\phi M_{n_pier} := 0.9(152847.336 \text{ kip}\cdot\text{in})$ = design flexural strength of pier (w/0.91.2 x applied axial comp. rxn) [Pier.pcd]
 0.9
 1.2
 $P_u = 68.6 \text{ kip}$ $\phi M_{n_pier} = 11464 \text{ kip}\cdot\text{ft}$

- Soil:

$\gamma_s := 110 \text{ pcf}$ = density of soil
 $q_{\text{all}} := \frac{3880}{3} \text{ psf} = 1293 \text{ psf}$ = net allowable bearing pressure
 $\psi_{\text{input}} := 0.35$ = coefficient of friction per GEO (-or- for clay; assumed per TBL 8.3; for sand: = 0 if to be calc'd)
 $\phi := 0 \text{ deg}$ = friction angle of soil (= 0 if ψ is input or if soil is clay)
 $GW := 5 \text{ ft}$ = ground water depth

- Constants:

$\gamma_w := 62.4 \text{ pcf}$ = unit weight of water $\phi_s = 0.75$ = resistance factor for soil strength
 $E := 29000 \text{ ksi}$ = modulus of elasticity of rebar steel $\phi_v = 0.75$ = strength reduction factor for shear
 $\epsilon_{cu} = 0.003 \frac{\text{in}}{\text{in}}$ = max usable strain at extreme conc. comp. fiber $\phi_t = 0.90$ = strength reduction factor for tension

OUTPUT

GEOMETRY, DEAD LOADS & REBAR

SOIL RESISTANCE - SIDE

SOIL RESISTANCE - DIAGONAL

PAD STRUCTURE FORCES

PAD FLEXURAL STRENGTH - DESIGN

Pad Rebar

- Top:

$n_{h_top} = 71$	= number of pad horizontal rebar at input spacing
$s_{h_top_req'd} = 14.97 \text{ in}$	= spacing required for input rebar size
$s_{h_top} = 11.81 \text{ in}$	= size of rebar required for current #/spacing

 - Bottom:

$n_{h_bot} = 71$	= number of pad horizontal rebar at input spacing
$s_{h_bot_req'd} = 11.81 \text{ in}$	= spacing required for input rebar size
$s_{h_bot} = 11.81 \text{ in}$	= size of rebar required for current #/spacing

PAD FLEXURAL STRENGTH - ANALYSIS

PAD SHEAR STRENGTH

PIER STRUCTURE STRENGTH

PAD & PIER STRUCTURE DETAILING

Results Summary

- Soil

$$\text{resultSoil} := \begin{pmatrix} r_q \\ r_{OTM} \\ r_H \end{pmatrix}$$

$$\text{resultSoil_About_Diag} := \begin{pmatrix} r_{q_diag} \\ r_{OTM_diag} \end{pmatrix}$$

- Structure - Pad:

$$\text{resultPad_Top_Str} := \begin{pmatrix} f_{t_top} \\ r_{v_top} \end{pmatrix}$$

$$\text{resultAs_Max_Top} := \text{CheckAs_max_top}$$

$$\text{resultPad_Bot_Str} := \begin{pmatrix} f_{t_bot} \\ r_{v_bot_br} \\ r_{v_bot_1way} \\ r_{v_bot_2way} \end{pmatrix}$$

$$\text{resultAs_Max_Bot} := \text{CheckAs_max_bot}$$

$$\text{resultAs_min_pad} := \text{CheckAs_min_pad}$$

- Structure - Pier:

$$\text{resultPier_Str_Strength} := \begin{pmatrix} f_{t_pier} \\ r_{v_pier} \end{pmatrix}$$

$$\text{resultAs_Min_Pier} := r_{As_pier}$$

- Detailing - Pad & Pier:

$$\text{resultSize} := \text{result}_{z_pad_MIN}$$

$$\text{resultDetailing_AR_PullOut} := \begin{cases} \begin{pmatrix} \text{result}_{id_AR} \\ \text{result}_{dh_AR} \end{pmatrix} & \text{if ShearPlane}_{45} = \text{"In Pier"} \\ \text{result}_{id_horiz_AR} & \text{if ShearPlane}_{45} = \text{"In Pad"} \end{cases}$$

$$\text{resultHoriz_Id} := \begin{pmatrix} \text{result}_{id_horiz_top} \\ \text{result}_{id_horiz_bot} \end{pmatrix}$$

$$\text{resultVert} := \begin{pmatrix} \text{result}_{Lvert_ext} \\ \text{result}_{dh} \end{pmatrix}$$

$$\text{resultFlowable_Concrete} := r_{conc_pier}$$

$$\text{resultAs_TS_spacing} := \begin{pmatrix} \text{CheckAs_TS_spacing_top} \\ \text{CheckAs_TS_spacing_bot} \end{pmatrix}$$

$$\text{resultSoil} = \begin{pmatrix} 71 \\ 64 \\ 59 \end{pmatrix} \%$$

$$\text{resultSoil_About_Diag} = \begin{pmatrix} 100 \\ 45 \end{pmatrix} \%$$

$$\text{resultPad_Top_Str} = \begin{pmatrix} 43 \\ 26 \end{pmatrix} \%$$

$$\text{resultAs_Max_Top} = \text{"OK"}$$

$$\text{resultPad_Bot_Str} = \begin{pmatrix} 53 \\ 44 \\ 62 \\ 63 \end{pmatrix} \%$$

$$\text{resultAs_Max_Bot} = \text{"OK"}$$

$$\text{resultAs_min_pad} = \text{"OK"}$$

$$\text{resultPier_Str_Strength} = \begin{pmatrix} 84 \\ 5 \end{pmatrix} \%$$

$$\text{resultAs_Min_Pier} = \text{"OK"}$$

$$\text{resultSize} = \text{"OK"}$$

$$\text{resultDetailing_AR_PullOut} = \text{"OK"}$$

$$\text{resultHoriz_Id} = \begin{pmatrix} \text{"OK"} \\ \text{"OK"} \end{pmatrix}$$

$$\text{resultVert} = \begin{pmatrix} \text{"OK"} \\ \text{"OK"} \end{pmatrix}$$

$$\text{resultFlowable_Concrete} = \text{"OK"}$$

$$\text{resultAs_TS_spacing} = \begin{pmatrix} \text{"OK"} \\ \text{"OK"} \end{pmatrix}$$

$$\text{Vol}_{conc} = 114 \text{ yd}^3 \quad \text{Max_Utilization_Soil} = 100 \% \quad \text{Max_Utilization_Structure} = 84 \% \quad \text{DetailingChecks} = \text{"OK"}$$

=====

L-Pile for Windows(Beta), Version 2018-10.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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This copy of L-Pile is being used by:

Delta Oaks Group
Raleigh, NC

Serial Number of Security Device: 563874136

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is a violation of the software license agreement.

Files Used for Analysis

Path to file locations:
\\2024 Projects\24-20662 CK Stephensport COW RELO KY0110\STR\Additional Calculations\SSPS Pad and Pier Foundation\L-Pile\

Name of input data file:
KY0110_Pier.lp10

Name of output report file:
KY0110_Pier.lp10

Name of plot output file:
KY0110_Pier.lp10

Name of runtime message file:
KY0110_Pier.lp10

Date and Time of Analysis

Date: April 25, 2024 Time: 12:09:56

Problem Title

24-20662 CK Stephensport COW RELO KY0110

M Lassiter

Pier Flexure Capacity

Program Options and Settings

Computational Options:
- Compute nonlinear bending properties of pile only
Engineering Units Used for Data Input and Computations:
- US Customary System Units (pounds, feet, inches)

Output Options:
- Output files use decimal points to denote decimal symbols.
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 4.250 ft
Depth of ground surface below top of pile = 0.0000 ft

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point No.	Depth Below Pile Head feet	Pile Diameter inches
1	0.000	102.0000
2	4.250	102.0000

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is a round drilled shaft, bored pile, or CIDH pile
 Length of section = 4.250000 ft
 Shaft Diameter = 102.000000 in
 Shear capacity of section = 0.0000 lbs

 Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

Axial thrust force values were determined from input values

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section = 4.250000 ft
 Shaft Diameter = 102.000000 in
 Concrete Cover Thickness (to edge of long. rebar) = 3.625000 in
 Number of Reinforcing Bars = 58 bars
 Yield Stress of Reinforcing Bars = 60000. psi
 Modulus of Elasticity of Reinforcing Bars = 29000000. psi

Gross Area of Shaft = 8171. sq. in.
 Total Area of Reinforcing Steel = 58.000000 sq. in.
 Area Ratio of Steel Reinforcement = 0.71 percent
 Edge-to-Edge Bar Spacing = 3.940593 in
 Maximum Concrete Aggregate Size = 0.750000 in
 Ratio of Bar Spacing to Aggregate Size = 5.25
 Offset of Center of Rebar Cage from Center of Pile = 0.0000 in

Axial Structural Capacities:

Nom. Axial Structural Capacity = $0.85 F_c A_c + F_y A_s$ = 31065.160 kips
 Tensile Load for Cracking of Concrete = -3568.445 kips
 Nominal Axial Tensile Capacity = -3480.000 kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	1.128000	1.000000	46.811000	0.000000
2	1.128000	1.000000	46.536592	5.061159
3	1.128000	1.000000	45.716585	10.062981
4	1.128000	1.000000	44.360593	14.946824
5	1.128000	1.000000	42.484513	19.655429
6	1.128000	1.000000	40.110341	24.133592
7	1.128000	1.000000	37.265912	28.328810
8	1.128000	1.000000	33.984575	32.191899
9	1.128000	1.000000	30.304799	35.677568
10	1.128000	1.000000	26.269728	38.744950
11	1.128000	1.000000	21.926668	41.358082
12	1.128000	1.000000	17.326537	43.486329
13	1.128000	1.000000	12.523269	45.104739
14	1.128000	1.000000	7.573177	46.194336
15	1.128000	1.000000	2.534296	46.742348
16	1.128000	1.000000	-2.534296	46.742348
17	1.128000	1.000000	-7.573177	46.194336
18	1.128000	1.000000	-12.523269	45.104739
19	1.128000	1.000000	-17.326537	43.486329
20	1.128000	1.000000	-21.926668	41.358082
21	1.128000	1.000000	-26.269728	38.744950
22	1.128000	1.000000	-30.304799	35.677568
23	1.128000	1.000000	-33.984575	32.191899
24	1.128000	1.000000	-37.265912	28.328810
25	1.128000	1.000000	-40.110341	24.133592
26	1.128000	1.000000	-42.484513	19.655429

27	1.128000	1.000000	-44.360593	14.946824
28	1.128000	1.000000	-45.716585	10.062981
29	1.128000	1.000000	-46.536592	5.061159
30	1.128000	1.000000	-46.811000	0.000000
31	1.128000	1.000000	-46.536592	-5.061159
32	1.128000	1.000000	-45.716585	-10.062981
33	1.128000	1.000000	-44.360593	-14.946824
34	1.128000	1.000000	-42.484513	-19.655429
35	1.128000	1.000000	-40.110341	-24.133592
36	1.128000	1.000000	-37.265912	-28.328810
37	1.128000	1.000000	-33.984575	-32.191899
38	1.128000	1.000000	-30.304799	-35.677568
39	1.128000	1.000000	-26.269728	-38.744950
40	1.128000	1.000000	-21.926668	-41.358082
41	1.128000	1.000000	-17.326537	-43.486329
42	1.128000	1.000000	-12.523269	-45.104739
43	1.128000	1.000000	-7.573177	-46.194336
44	1.128000	1.000000	-2.534296	-46.742348
45	1.128000	1.000000	2.534296	-46.742348
46	1.128000	1.000000	7.573177	-46.194336
47	1.128000	1.000000	12.523269	-45.104739
48	1.128000	1.000000	17.326537	-43.486329
49	1.128000	1.000000	21.926668	-41.358082
50	1.128000	1.000000	26.269728	-38.744950
51	1.128000	1.000000	30.304799	-35.677568
52	1.128000	1.000000	33.984575	-32.191899
53	1.128000	1.000000	37.265912	-28.328810
54	1.128000	1.000000	40.110341	-24.133592
55	1.128000	1.000000	42.484513	-19.655429
56	1.128000	1.000000	44.360593	-14.946824
57	1.128000	1.000000	45.716585	-10.062981
58	1.128000	1.000000	46.536592	-5.061159

NOTE: The positions of the above rebars were computed by LPile

Minimum spacing between any two bars not equal to zero = 3.941 inches
between bars 1 and 58.

Ratio of bar spacing to maximum aggregate size = 5.25

Concrete Properties:

Compressive Strength of Concrete = 4000. psi
Modulus of Elasticity of Concrete = 3604997. psi

Modulus of Rupture of Concrete = -474.341649 psi
Compression Strain at Peak Stress = 0.001886
Tensile Strain at Fracture of Concrete = -0.0001154
Maximum Coarse Aggregate Size = 0.750000 in

Input Axial Thrust Forces:

Number of Axial Thrust Force Values Determined from Input Data = 1

Number	Axial Thrust Force kips
1	68.600

Definitions of Run Messages and Notes:

C = concrete in section has cracked in tension.
Y = stress in reinforcing steel has reached yield stress.
T = ACI 318 criteria for tension-controlled section met, tensile strain in reinforcement exceeds 0.005 while simultaneously compressive strain in concrete more than 0.003. See ACI 318, Section 10.3.4.
Z = depth of tensile zone in concrete section is less than 10 percent of section depth.

Bending Stiffness (EI) = Computed Bending Moment / Curvature.
Position of neutral axis is measured from edge of compression side of pile.
Compressive stresses and strains are positive in sign.
Tensile stresses and strains are negative in sign.

Axial Thrust Force = 68.600 kips

Bending Curvature rad/in.	Bending Moment in-kip	Bending Stiffness kip-in2	Depth to N Axis in	Max Comp Strain in/in	Max Tens Strain in/in	Max Conc Stress ksi	Max Steel Stress ksi	Run Msg
3.12500E-07	7514.	2.40449E+10	57.1032311	0.00001784	-0.00001403	0.0746551	0.5128762	
6.25000E-07	14989.	2.39822E+10	54.0620589	0.00003379	-0.00002996	0.1406928	0.9706311	
9.37500E-07	22424.	2.39188E+10	53.0483994	0.00004973	-0.00004589	0.2061705	1.4283877	
0.00000125	29819.	2.38552E+10	52.5416093	0.00006568	-0.00006182	0.2710882	1.8861458	
0.00000156	37174.	2.37916E+10	52.2375659	0.00008162	-0.00007775	0.3354458	2.3439053	
0.00000188	44490.	2.37279E+10	52.0348952	0.00009757	-0.00009368	0.3992434	2.8016662	
0.00000219	51765.	2.36642E+10	51.8901521	0.0001135	-0.0001096	0.4624810	3.2594284	

0.00000250	51765.	2.07061E+10	25.6481413	0.00006412	-0.0001909	0.2620978	-5.4985348	C
0.00000281	51765.	1.84055E+10	25.2902901	0.00007113	-0.0002157	0.2901260	-6.2150388	C
0.00000313	51765.	1.65649E+10	25.0053365	0.00007814	-0.0002406	0.3180655	-6.9314226	C
0.00000344	51765.	1.50590E+10	24.7629721	0.00008512	-0.0002655	0.3457709	-7.6487256	C
0.00000375	51765.	1.38041E+10	24.5615278	0.00009211	-0.0002904	0.3733797	-8.3659713	C
0.00000406	51765.	1.27422E+10	24.3921310	0.00009909	-0.0003153	0.4009010	-9.0830927	C
0.00000438	51765.	1.18321E+10	24.2479175	0.0001061	-0.0003402	0.4283348	-9.8000892	C
0.00000469	51765.	1.10433E+10	24.1238537	0.0001131	-0.0003650	0.4556809	-10.5169605	C
0.00000500	51765.	1.03531E+10	24.0161640	0.0001201	-0.0003899	0.4829390	-11.2337062	C
0.00000531	51765.	9744069945.	23.9195518	0.0001271	-0.0004148	0.5100585	-11.9506972	C
0.00000563	51765.	9202732726.	23.8324214	0.0001341	-0.0004397	0.5370452	-12.6678925	C
0.00000594	51765.	8718378372.	23.7552258	0.0001410	-0.0004646	0.5639450	-13.3849564	C
0.00000625	51765.	8282459453.	23.6864774	0.0001480	-0.0004895	0.5907576	-14.1018884	C
0.00000656	51765.	7880056622.	23.6249718	0.0001550	-0.0005143	0.6174831	-14.8186882	C
0.00000688	51765.	7529508594.	23.5697234	0.0001620	-0.0005392	0.6441211	-15.5353551	C
0.00000719	51765.	7202138655.	23.5199184	0.0001690	-0.0005641	0.6706717	-16.2518889	C
0.00000750	51765.	6902049544.	23.4748784	0.0001761	-0.0005889	0.6971345	-16.9682889	C
0.00000781	51765.	6625967563.	23.4340336	0.0001831	-0.0006138	0.7235096	-17.6845549	C
0.00000813	51765.	6371122656.	23.3969018	0.0001901	-0.0006387	0.7497966	-18.4006862	C
0.00000844	51765.	6135155151.	23.3630726	0.0001971	-0.0006635	0.7759955	-19.1168252	C
0.00000875	51765.	5916042467.	23.3321937	0.0002042	-0.0006883	0.8021061	-19.8325433	C
0.00000906	51765.	5712041002.	23.3039618	0.0002112	-0.0007132	0.8281282	-20.5482681	C
0.00000938	51765.	5521639636.	23.2781140	0.0002182	-0.0007380	0.8540617	-21.2638565	C
0.00000969	51765.	5343522228.	23.2544211	0.0002253	-0.0007628	0.8799065	-21.9793079	C
0.00001000	51765.	5176537158.	23.2326829	0.0002323	-0.0007877	0.9056623	-22.6946219	C
0.00001031	51765.	5019672396.	23.2127232	0.0002394	-0.0008125	0.9313290	-23.4097983	C
0.00001063	51765.	4872034973.	23.1943867	0.0002464	-0.0008373	0.9569066	-24.1248360	C
0.00001094	51765.	4732833973.	23.1775358	0.0002535	-0.0008621	0.9823947	-24.8397349	C
0.00001125	51765.	4601366363.	23.1620481	0.0002606	-0.0008869	1.0077932	-25.5544945	C
0.00001156	51765.	4477005110.	23.1478147	0.0002676	-0.0009117	1.0331020	-26.2691141	C
0.00001188	51765.	4359189186.	23.1347379	0.0002747	-0.0009365	1.0583210	-26.9835935	C
0.00001219	51765.	4247415104.	23.1227302	0.0002818	-0.0009613	1.0834498	-27.6979320	C
0.00001281	51765.	4040224124.	23.1016145	0.0002960	-0.0010109	1.1334368	-29.1261845	C
0.00001344	53539.	3984329317.	23.0839243	0.0003102	-0.0010604	1.1830615	-30.5538660	C
0.00001406	55914.	3976091564.	23.0692129	0.0003244	-0.0011100	1.2323227	-31.9809775	C
0.00001469	58286.	3968405187.	23.0571099	0.0003387	-0.0011595	1.2812191	-33.4075093	C
0.00001531	60656.	3961201769.	23.0473053	0.0003529	-0.0012090	1.3297492	-34.8334592	C
0.00001594	63024.	3954423613.	23.0395381	0.0003672	-0.0012584	1.3779116	-36.2588229	C
0.00001656	65389.	3948021721.	23.0335866	0.0003815	-0.0013079	1.4257051	-37.6835961	C
0.00001719	67752.	3941954211.	23.0292616	0.0003958	-0.0013573	1.4731281	-39.1077743	C
0.00001781	70113.	3936185069.	23.0264005	0.0004102	-0.0014067	1.5201793	-40.5313531	C
0.00001844	72472.	3930683155.	23.0248628	0.0004245	-0.0014561	1.5668571	-41.9543280	C
0.00001906	74828.	3925421402.	23.0245268	0.0004389	-0.0015055	1.6131602	-43.3766943	C
0.00001969	77182.	3920376172.	23.0252861	0.0004533	-0.0015548	1.6590871	-44.7984476	C
0.00002031	79534.	3915526725.	23.0270475	0.0004677	-0.0016041	1.7046363	-46.2195829	C
0.00002094	81884.	3910854789.	23.0297293	0.0004822	-0.0016534	1.7498063	-47.6400956	C
0.00002156	84231.	3906344202.	23.0332591	0.0004967	-0.0017027	1.7945956	-49.0599808	C

0.00002219	86575.	3901980612.	23.0375729	0.0005111	-0.0017520	1.8390026	-50.4792335	C
0.00002281	88917.	3897751231.	23.0426139	0.0005257	-0.0018012	1.8830257	-51.8978489	C
0.00002344	91257.	3893644627.	23.0483312	0.0005402	-0.0018504	1.9266635	-53.3158218	C
0.00002406	93595.	3889650546.	23.0546795	0.0005548	-0.0018996	1.9699143	-54.7331472	C
0.00002469	95930.	3885759764.	23.0616182	0.0005693	-0.0019488	2.0127765	-56.1498197	C
0.00002531	98262.	3881963958.	23.0691107	0.0005839	-0.0019979	2.0552484	-57.5658342	C
0.00002594	100592.	3878255600.	23.0771241	0.0005986	-0.0020471	2.0973285	-58.9811853	C
0.00002656	102920.	3874627860.	23.0856288	0.0006132	-0.0020962	2.1390151	-60.0000000	CY
0.00002719	105245.	3871074528.	23.0945978	0.0006279	-0.0021452	2.1803065	-60.0000000	CY
0.00002781	107533.	3866354058.	23.1015870	0.0006425	-0.0021944	2.2210106	-60.0000000	CY
0.00002844	109439.	3848390801.	23.0824515	0.0006564	-0.0022442	2.2592007	-60.0000000	CY
0.00002906	111141.	3824212566.	23.0507627	0.0006699	-0.0022945	2.2959005	-60.0000000	CY
0.00002969	112658.	3794792923.	23.0081066	0.0006831	-0.0023451	2.3312090	-60.0000000	CY
0.00003031	114037.	3762042136.	22.9581055	0.0006959	-0.0023960	2.3653997	-60.0000000	CY
0.00003094	115337.	3728097439.	22.9026325	0.0007086	-0.0024471	2.3986146	-60.0000000	CY
0.00003156	116524.	3691842010.	22.8409551	0.0007209	-0.0024985	2.4307843	-60.0000000	CY
0.00003219	117666.	3655637665.	22.7789028	0.0007332	-0.0025499	2.4623931	-60.0000000	CY
0.00003281	118709.	3617792936.	22.7122555	0.0007452	-0.0026016	2.4930860	-60.0000000	CY
0.00003344	119694.	3579625663.	22.6442253	0.0007572	-0.0026535	2.5231355	-60.0000000	CY
0.00003406	120672.	3542659238.	22.5786392	0.0007691	-0.0027053	2.5528779	-60.0000000	CY
0.00003469	121527.	3503489470.	22.5065387	0.0007807	-0.0027574	2.5815401	-60.0000000	CY
0.00003531	122359.	3465035589.	22.4356317	0.0007923	-0.0028096	2.6097957	-60.0000000	CY
0.00003594	123186.	3427779185.	22.3672090	0.0008038	-0.0028618	2.6377685	-60.0000000	CY
0.00003656	123966.	3390520956.	22.2979489	0.0008153	-0.0029141	2.6651726	-60.0000000	CY
0.00003719	124660.	3352202213.	22.2248298	0.0008265	-0.0029666	2.6917402	-60.0000000	CY
0.00003969	127293.	3207391896.	21.9478303	0.0008711	-0.0031771	2.7946422	-60.0000000	CY
0.00004219	129537.	3070499038.	21.6644696	0.0009140	-0.0033892	2.8896384	-60.0000000	CY
0.00004469	131391.	2940229367.	21.3854370	0.0009557	-0.0036025	2.9781151	-60.0000000	CY
0.00004719	133088.	2820399181.	21.1269858	0.0009969	-0.0038162	3.0620484	-60.0000000	CY
0.00004969	134546.	2707852471.	20.8773346	0.0010373	-0.0040308	3.1407056	-60.0000000	CY
0.00005219	135874.	2603576693.	20.6302700	0.0010766	-0.0042465	3.2138269	-60.0000000	CY
0.00005469	137003.	2505190604.	20.3916766	0.0011152	-0.0044630	3.2823108	-60.0000000	CY
0.00005719	138109.	2415021948.	20.1748983	0.0011538	-0.0046794	3.3477680	-60.0000000	CY
0.00005969	139040.	2329466907.	19.9633838	0.0011916	-0.0048966	3.4088414	-60.0000000	CY
0.00006219	139896.	2249580675.	19.7557044	0.0012286	-0.0051146	3.4656442	-60.0000000	CY
0.00006469	140739.	2175670304.	19.5604193	0.0012653	-0.0053328	3.5192306	-60.0000000	CY
0.00006719	141458.	2105415072.	19.3698476	0.0013014	-0.0055517	3.5690684	-60.0000000	CY
0.00006969	142098.	2039076931.	19.1875412	0.0013371	-0.0057710	3.6156845	-60.0000000	CY
0.00007219	142735.	1977274846.	19.0195943	0.0013730	-0.0059901	3.6597875	-60.0000000	CY
0.00007469	143366.	1919543477.	18.8640937	0.0014089	-0.0062092	3.7013076	-60.0000000	CY
0.00007719	143904.	1864347140.	18.6998348	0.0014434	-0.0064297	3.7385530	-60.0000000	CY
0.00007969	144368.	1811677902.	18.5396397	0.0014774	-0.0066507	3.7728164	-60.0000000	CY
0.00008219	144821.	1762081484.	18.3898344	0.0015114	-0.0068717	3.8047240	-60.0000000	CY
0.00008469	145271.	1715372744.	18.2502805	0.0015456	-0.0070926	3.8343210	-60.0000000	CY
0.00008719	145717.	1671302575.	18.1201138	0.0015798	-0.0073133	3.8615823	-60.0000000	CY
0.00008969	146136.	1629393616.	17.9959307	0.0016140	-0.0075341	3.8863132	-60.0000000	CY
0.00009219	146593.	1589183008.	17.8742485	0.0016478	-0.0077553	3.9083617	-60.0000000	CY

0.00009469	146817.	1550539635.	17.7461685	0.0016803	-0.0079778	3.9273434	-60.0000000	CY
0.00009719	147123.	1513803944.	17.6232152	0.0017128	-0.0082004	3.9440533	-60.0000000	CY
0.00009969	147426.	1478882971.	17.5075844	0.0017453	-0.0084228	3.9586326	-60.0000000	CY
0.0001022	147727.	1445643038.	17.3987540	0.0017779	-0.0086452	3.9710573	-60.0000000	CY
0.0001047	148024.	1413963225.	17.2962521	0.0018107	-0.0088674	3.9813034	-60.0000000	CY
0.0001072	148319.	1383733882.	17.1996515	0.0018436	-0.0090895	3.9893460	-60.0000000	CY
0.0001097	148580.	1354573104.	17.1045023	0.0018762	-0.0093120	3.9950938	-60.0000000	CY
0.0001122	148801.	1326358706.	17.0099143	0.0019083	-0.0095348	3.9986081	-60.0000000	CY
0.0001147	149015.	1299312795.	16.9198943	0.0019405	-0.0097576	3.9999796	-60.0000000	CY
0.0001172	149220.	1273345104.	16.8343971	0.0019728	-0.0099803	3.9916150	-60.0000000	CY
0.0001197	149410.	1248331587.	16.7437140	0.0020040	-0.0102041	3.9951945	-60.0000000	CY
0.0001222	149596.	1224319080.	16.6570875	0.0020353	-0.0104278	3.9983826	-60.0000000	CY
0.0001247	149781.	1201253014.	16.5748073	0.0020667	-0.0106515	3.9998791	-60.0000000	CY
0.0001272	149962.	1179066097.	16.4970259	0.0020982	-0.0108749	3.9945611	-60.0000000	CY
0.0001297	150141.	1157714468.	16.4232392	0.0021299	-0.0110982	3.9914741	-60.0000000	CY
0.0001322	150314.	1137128994.	16.3523919	0.0021616	-0.0113215	3.9957109	-60.0000000	CY
0.0001347	150478.	1117240984.	16.2837865	0.0021932	-0.0115449	3.9985021	-60.0000000	CY
0.0001372	150641.	1098065531.	16.2183974	0.0022250	-0.0117682	3.9998605	-60.0000000	CY
0.0001522	151359.	994556544.	15.8553649	0.0024130	-0.0131101	3.9996905	-60.0000000	CY
0.0001672	151960.	908921731.	15.5370249	0.0025976	-0.0144555	3.9964662	-60.0000000	CY
0.0001822	152459.	836824062.	15.2731273	0.0027826	-0.0158006	3.9822170	-60.0000000	CY
0.0001972	152806.	774925314.	15.0421532	0.0029661	-0.0171470	3.9992184	-60.0000000	CY
0.0002122	153041.	721253271.	14.8787176	0.0031571	-0.0184860	3.9792076	-60.0000000	CYT
0.0002272	153246.	674536182.	14.7382187	0.0033483	-0.0198248	3.9978052	-60.0000000	CYT
0.0002422	153383.	633324158.	14.6250858	0.0035420	-0.0211611	3.9843116	-60.0000000	CYT
0.0002572	153464.	596702365.	14.5197097	0.0037343	-0.0224988	3.9839546	-60.0000000	CYT
0.0002722	153464.	563818653.	14.5826911	0.0039692	-0.0237939	3.9997740	-60.0000000	CYT

 Summary of Results for Nominal (Unfactored) Moment Capacity for Section 1

Moment values interpolated at maximum compressive strain = 0.003
 or maximum developed moment if pile fails at smaller strains.

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain
1	68.600	152847.336	0.00300000

Note that the values of moment capacity in the table above are not factored by a strength reduction factor (phi-factor).

In ACI 318, the value of the strength reduction factor depends on whether the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.70).

The above values should be multiplied by the appropriate strength reduction factor to compute ultimate moment capacity according to ACI 318, Section 9.3.2.2 or the value required by the design standard being followed.

The following table presents factored moment capacities and corresponding bending stiffnesses computed for common resistance factor values used for reinforced concrete sections.

Axial Load No.	Resist. Factor for Moment	Nominal Moment Cap in-kips	Ult. (Fac) Ax. Thrust kips	Ult. (Fac) Moment Cap in-kips	Bend. Stiff. at Ult Mom kip-in^2
1	0.65	152847.	44.590000	99351.	3.8802E+09
1	0.70	152847.	48.020000	106993.	3.8675E+09
1	0.75	152847.	51.450000	114636.	3.7464E+09

The analysis ended normally.

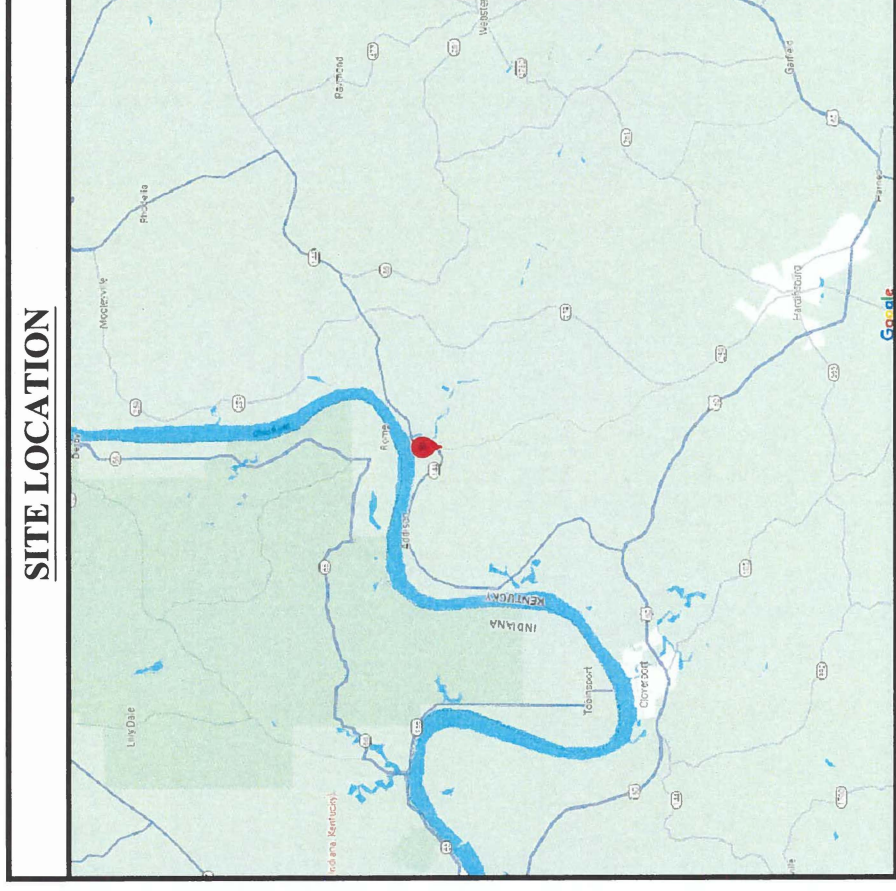
FOUNDATION DESIGN DRAWINGS

195-FT MONOPOLE

SITE NAME
CK STEPHENSPORT COW RELO

SITE ID
KY0110

SITE ADDRESS
HWY 2779
HARDINSBURG, KY 40143



PROJECT CONTACT DIRECTORY

TOWER OWNER: TOWERCO
 5000 VALLEYSTONE DR.
 CARY, NC 27519
 OFFICE: (919) 653-5700
 WWW.TOWERCO.COM

ENGINEER:
 DELTA OAKS GROUP
 CONTACT: MICHAEL LASSITTER, SE, PE
 4904 PROFESSIONAL COURT, 2ND FLOOR
 RALEIGH, NC 27609
 (919) 342-8247
 ENG-STRUCTURAL@DELTAOAKSGROUP.COM

SITE OVERVIEW

TYPE OF OCCUPANCY: TELECOMMUNICATIONS

TOWER TYPE: MONOPOLE


FOUNDATION DESIGN: PAD & PIER

TOWER HEIGHT: 195-FT +/-

TOWER LATITUDE: 37.9037°±

TOWER LONGITUDE: -86.5279°±

RISK CATEGORY / STRUCTURE CLASS: II


 KENTUCKY
 KENTUCKY 811
 811 OR (800) 752-6007
 CALL 48 HOURS BEFORE YOU DIG

ALL DIMENSIONS, MEASUREMENTS, QUANTITIES, AND PART NUMBERS TO BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO MATERIAL ORDERS AND CONSTRUCTION

CONSTRUCTION SHALL BE PER STANDARDS TIA-322-2016; LOADING, ANALYSIS, AND DESIGN CRITERIA RELATED TO THE INSTALLATION, ALTERATION AND MAINTENANCE OF COMMUNICATION STRUCTURES AND ASSP A10-48-2016; CRITERIA FOR SAFETY PRACTICES WITH THE CONSTRUCTION, DEMOLITION, MODIFICATION AND MAINTENANCE OF COMMUNICATION STRUCTURES.

SHEET INDEX	
SHEET NO.	DESCRIPTION
T-1	TITLE SHEET
F-1	DRILLED SHAFT FOUNDATION DESIGN
F-2	FOUNDATION SECTION DETAILS
F-3	FOUNDATION SECTION DETAILS
GN-1	GENERAL NOTES

PREPARED FOR:




5000 VALLEYSTONE DR.
 CARY, NC 27519
 OFFICE: (919) 653-5700
 WWW.TOWERCO.COM

PREPARED BY:



DELTA OAKS GROUP
 4904 PROFESSIONAL COURT, SECOND FLOOR
 RALEIGH, NC 27609
 PHONE: (919) 342-8247
 www.deltaoaksgroup.com

Digitally signed

 Michael Lassitter
 Date: 2024.04.25 16:19:27 -0400
 MICHAEL LASSITTER
 24895
 PROFESSIONAL ENGINEER

MICHAEL LASSITTER, SE, PE
 KENTUCKY LICENSE NO. 24895
 4/25/24

DRAWN BY: MEA
 CHECKED BY: MILL
 APPVD: MILL
 PROJECT NO: STR24-20662-08

SUBMITTALS			
DATE	DESCRIPTION	REV	ISSUED BY
4/23/24	REVIEW	0	MEA

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY TO NATURE GROUP AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, WITHOUT THE PERMISSION OF THE DELTA OAKS GROUP. PLLC IS PROHIBITED.

SITE NAME:
 CK STEPHENSPORT COW RELO

SITE ADDRESS:
 HWY 2779
 HARDINSBURG, KY 40143

SITE ID:
 KY0110

SHEET TITLE
 TITLE SHEET

SHEET NUMBER

PREPARED FOR:



5000 VALLEYSTONE DR.
CARY, NC 27519
OFFICE: (919) 653-5700
WWW.TOWERCO.COM

PREPARED BY:



DELTA OAKS GROUP
4904 PROFESSIONAL COURT, SECOND FLOOR
RALEIGH, NC 27609
PHONE: (919) 342-8247
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MICHAEL LASSITER, SE, PE
KENTUCKY LICENSE NO. 24895
4/25/24

DRAWN BY: MEA
CHECKED BY: MILL
APP'D: MILL
PROJECT NO: STR24-20662-08

SUBMITTALS		REV	ISSUED BY
DATE	DESCRIPTION		
4/25/24	REVIEW	0	MEA

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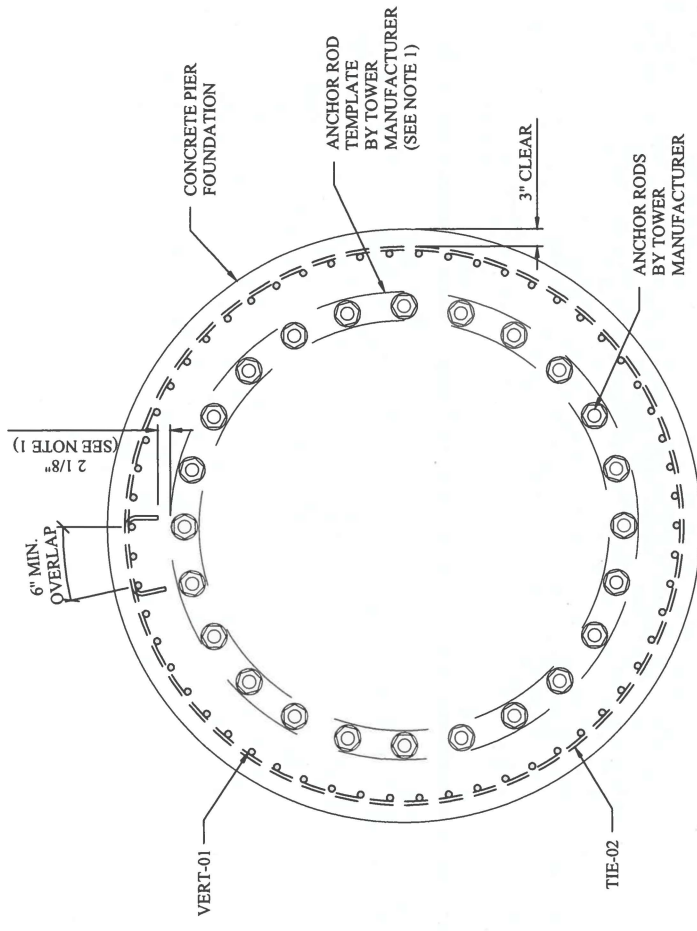
SITE NAME:
CK STEPHENSPORT COW RELO

SITE ADDRESS:
HWY 2779
HARDINSBURG, KY 40143

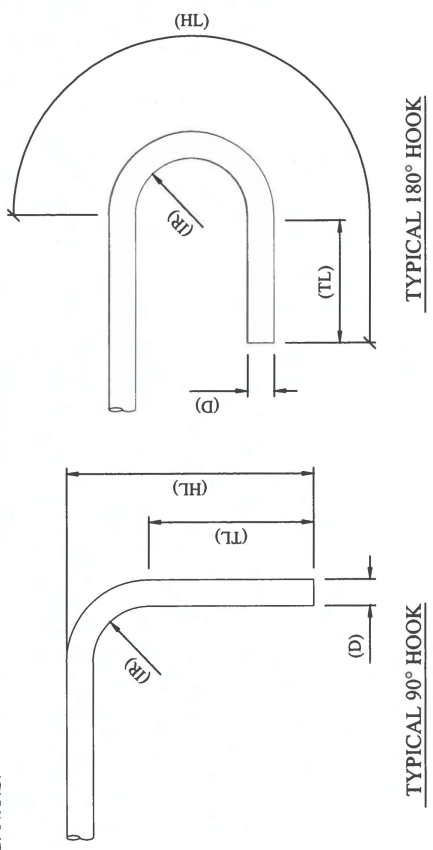
SITE ID:
KY0110

SHEET TITLE
FOUNDATION
SECTION DETAILS

SHEET NUMBER
F-2



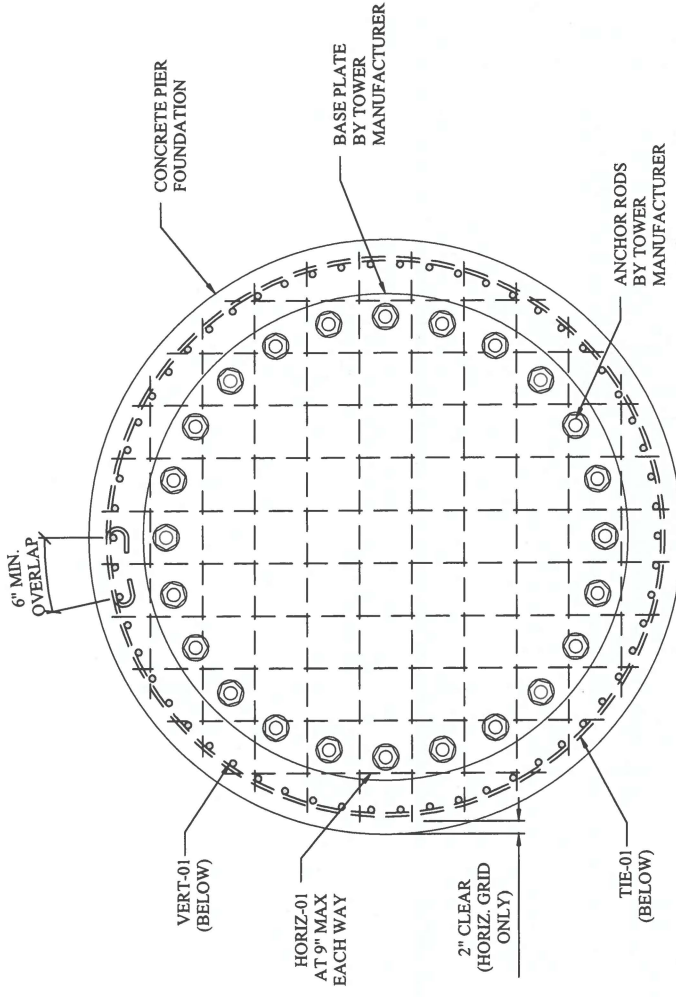
2 FOUNDATION SECTION DETAIL
SCALE: N.T.S.



- NOTES:**
- APPROXIMATE CLEAR FROM ANCHOR ROD TEMPLATE TO REBAR CAGE SHOWN.
 - HORIZONTAL REBAR GRID AT TOP OF PIER MAY BE ADJUSTED AS NECESSARY NOT TO INTERFERE WITH ANCHOR RODS. CONTRACTOR TO MAINTAIN ALL SPACING REQUIREMENTS SPECIFIED IN DETAILS.
 - REFER TO SHEET F-1 FOR PARTS LIST.
 - HORIZ SHALL BE HOOKED 90° EACH END. SEE TYPICAL 90° HOOK (AS REQUIRED FOR VERT AND HORIZ) DETAILS ON THIS SHEET.
 - TIE OVERLAPS AND HOOKS SHALL BE STAGGERED 180° BETWEEN ADJACENT TIES.

TYPICAL REBAR TERMINATION DETAILS

REBAR SIZE	OVERLAP (TIES)	90° HOOK (AS REQUIRED FOR VERT AND HORIZ)			90° HOOK (TIES)			180° HOOK (TIES)		
		INSIDE RADIUS (IR)	HOOK TAIL LENGTH (TL)	TOTAL HOOK LENGTH (HL)	INSIDE RADIUS (IR)	HOOK TAIL LENGTH (TL)	TOTAL HOOK LENGTH (HL)	INSIDE RADIUS (IR)	HOOK TAIL LENGTH (TL)	TOTAL HOOK LENGTH (HL)
#3	1'-8"	1 1/8"	4 1/2"	6"	3/4"	3"	4 1/8"	3/4"	2 1/2"	7 13/16"
#4	2'-3"	1 1/2"	6"	8"	1"	3"	4 1/2"	1"	2 1/2"	9 9/16"
#5	2'-10"	1 7/8"	7 1/2"	10"	1 1/4"	3 3/4"	5 5/8"	1 1/4"	2 1/2"	11 5/16"
#6	3'-4"	2 1/4"	9"	12"	2 1/4"	9"	12"	2 1/4"	3"	18 5/16"
#7	7/8"±	2 5/8"	10 1/2"	14"	--	--	--	--	--	--
#8	1"±	3"	12"	16"	--	--	--	--	--	--
#9	1 1/8"±	4 1/2"	13 9/16"	19 3/16"	--	--	--	--	--	--
#10	1 1/4"±	5"	15 1/4"	21 9/16"	--	--	--	--	--	--
#11	1 3/8"±	5 5/8"	16 15/16"	24"	--	--	--	--	--	--
#14	1 3/4"±	8 1/2"	20 5/16"	30 1/2"	--	--	--	--	--	--
#18	2 1/4"±	11 3/8"	27 1/16"	40 5/8"	--	--	--	--	--	--



1 FOUNDATION SECTION DETAIL
SCALE: N.T.S.

GENERAL NOTES:

1. ALL REFERENCES TO TOWER OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED AS TOWERCO OR ITS DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE.
3. THE STRUCTURE IS DESIGNED IN ACCORDANCE WITH ANSII/TIA 222-G ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE AND 2018 KENTUCKY BUILDING CODE
4. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
5. ALL PRODUCT MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERCEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE MODIFICATION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE-DOWNS THAT MAY BE NECESSARY, SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
7. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES AND PROCEDURES.
8. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE AND LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
11. PARTS LISTS AND PART NUMBERS LISTED ON THE CONSTRUCTION DRAWINGS ARE INTENDED TO AID THE CONTRACTOR/OWNER. CONTRACTOR/OWNER SHALL VERIFY PARTS AND QUANTITIES WITH THE MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
12. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNING AGENCIES.
13. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
14. 24 HOURS BEFORE THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER. THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE.
15. IF THE MATERIAL REMAINS UNSUITABLE AFTER REWORKING, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE IT WITH APPROVED MATERIAL. IF PAVING IS TO BE DONE, ALL SUBGRADES SHALL BE PROFFEROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIAL SHALL BE REWORKED OR REPLACED.
16. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
17. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
18. ALL DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

APPLICABLE CODES AND STANDARDS:

1. ANSII/TIA-222-G STRUCTURAL STANDARDS FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS.
2. 2015 INTERNATIONAL BUILDING CODE
3. 2018 KENTUCKY BUILDING CODE
4. ACI 318: AMERICAN CONCRETE INSTITUTE, BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE, 318-14.
5. CRSI: CONCRETE REINFORCING STEEL INSTITUTE, MANUAL OF STANDARD PRACTICE, LATEST EDITION.
6. AISC: AMERICAN INSTITUTE OF STEEL CONSTRUCTION, MANUAL OF STEEL CONSTRUCTION, 13TH EDITION.
7. AWS: AMERICAN WELDING SOCIETY D1.1, STRUCTURAL WELDING CODE, LATEST EDITION.

CONSTRUCTION INSPECTION NOTES:

1. FOUNDATION AND GEOTECHNICAL INSPECTIONS: A THIRD PARTY INSPECTION SHALL BE PERFORMED TO VERIFY:
 - A. PARAMETERS IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT FOR THE SITE
 - B. FOUNDATION DIMENSIONS
 - C. REINFORCING STEEL GRADE, SIZE, CONDITION, SUPPORT, PLACEMENT AND COVER
 - D. CONCRETE MIX DESIGN DOCUMENTATION MATCHES STRENGTH AND DURABILITY REQUIREMENTS
 - E. CONCRETE TESTS REQUIRED TO BE PERFORMED PRIOR TO PLACEMENT OF CONCRETE, INCLUDING SLUMP, TEMPERATURE, AIR CONTENT, AND TEST CYLINDERS
 - F. ANCHOR ROD AND/OR POST-INSTALLED REBAR DIMENSIONS AND PLACEMENT, SIZE, EMBEDMENT DEPTH, PROJECTION ABOVE CONCRETE, ORIENTATION, PATTERN, AND ALIGNMENT
 - G. CONDITION OF SUBGRADE IMMEDIATELY PRIOR TO CONCRETE PLACEMENT
 - H. PROPER CONCRETE PLACEMENT, AVOIDING SEGREGATION OF AGGREGATES, AND CURING
 - I. STRUCTURAL BACKFILL MATERIAL AND PLACEMENT, INCLUDING MAXIMUM LIFT THICKNESS, MOISTURE CONTENT AND DENSITY.

PREPARED FOR:



5000 VALLEYSTONE DR.
CARY, NC 27519
OFFICE: (919) 653-5700
WWW.TOWERCO.COM

PREPARED BY:



DELTA OAKS GROUP
CONSTRUCTION SECOND FLOOR
RALEIGH, NC 27609
PHONE: (919) 342-8247
www.deltaoaksgroup.com



MICHAEL LASSITER, SE, PE
KENTUCKY LICENSE NO. 24895
42574

DRAWN BY: MEA
CHECKED BY: MLL
APPVD: MLL
PROJECT NO: STR24-20662-08

SUBMITTALS		REV	ISSUED BY
DATE	DESCRIPTION		
4/25/24	REVIEW	0	MEA

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SITE NAME:

CK STEPHENSPORT COW RELO

SITE ADDRESS:

HWY 2779
HARDINSBURG, KY 40143

SITE ID:

KY0110

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1



1961 NORTHPOINT BLVD.
SUITE 130
HIKSON, TN 37343
PH : 423-843-9500
FAX : 423-843-9509

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DRAWN BY: TDD
CHECKED BY: SEH

REVISIONS

#	DATE	BY	DESCRIPTION
0	04/12/24	PLS	ZONING ISSUE
B	01/15/24	PLS	ZONING ISSUE
A	10/05/23	MJB	ZONING ISSUE

FOR REFERENCE

FUZE ID : TBD

SITE NAME : CK STEPHENSPORT COW RELO

SITE # / LOCATION CODE : 725001

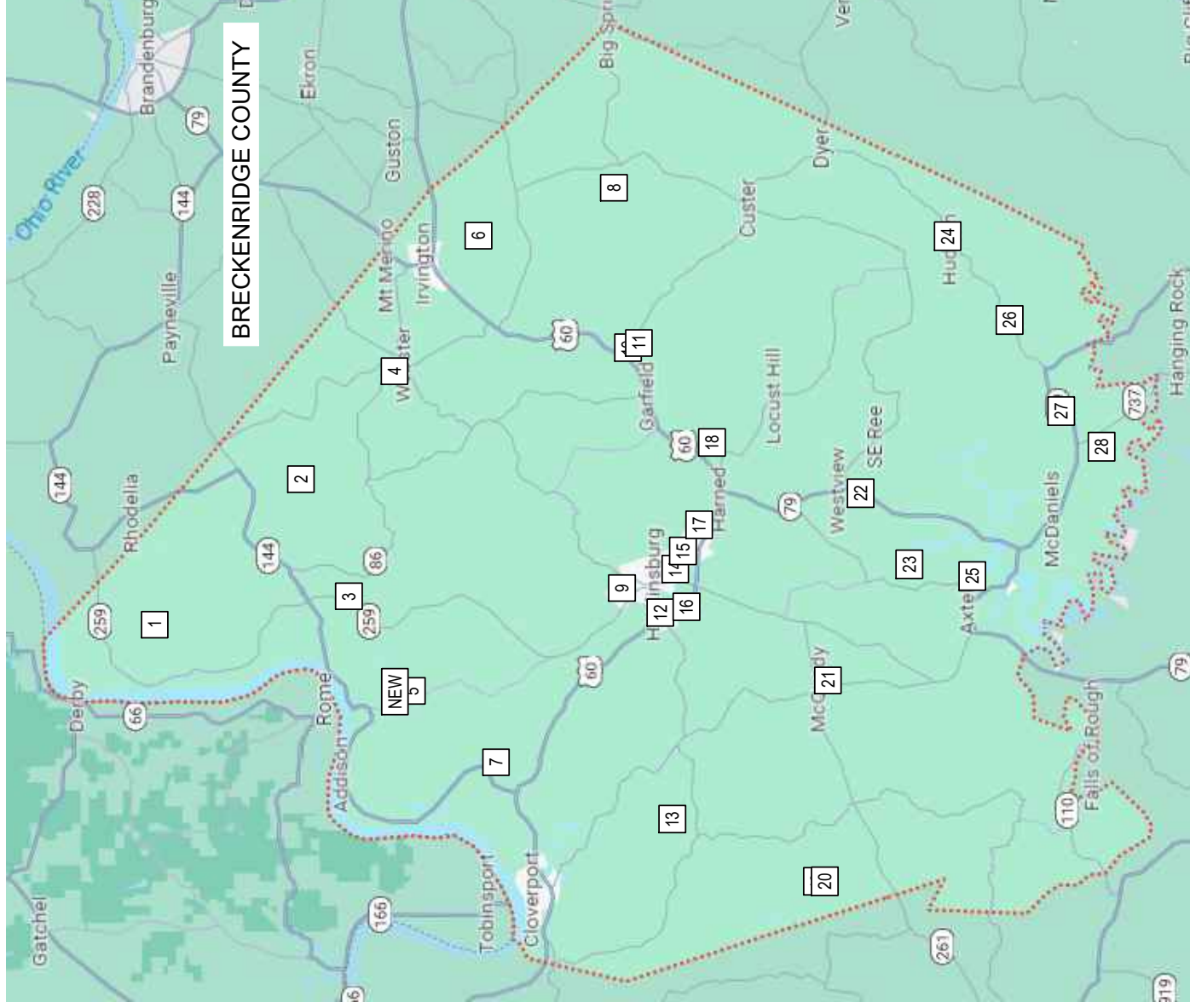
SITE ADDRESS : TBD KENTUCKY STATE HWY 2779 STEPHENSPORT, KY 40170

SITE TYPE : RAWLAND

SHEET TITLE : COUNTY TOWER MAP

DRAWING # : Z1
REVISION : 0

FCC REGISTERED SITES (LAUREL COUNTY)				
TOWER	ASR	LATITUDE	LONGITUDE	TOWER OWNER
1	1305108	38° 1'12.90"N	86° 29'39.90"W	VERIZON WIRELESS
2	1043429	37° 57'6.10"N	86° 24'38.30"W	CROWN CASTLE
3	1291561	37° 55'53.10"N	86° 28'37.70"W	AMERICAN TOWER
4	1200734	37° 54'35.00"N	86° 20'47.00"W	BIG RIVERS ELECTRIC CORPORATION
5	1304239	37° 54'7.50"N	86° 31'56.20"W	VERIZON WIRELESS
6	1043896	37° 52'17.80"N	86° 16'3.50"W	SKYWAY TOWERS
7	TOWER	37° 51'29.00"N	86° 34'21.00"W	KENTUCKY EMERGENCY WARNING SYSTEM
8	1050176	37° 48'32.00"N	86° 14'25.00"W	TELAVA WIRELESS, INC
9	1215268	37° 48'20.20"N	86° 28'22.40"W	CROWN CASTLE SOUTH LLC
10	1270783	37° 48'8.30"N	86° 20'0.20"W	SBA MONARCH TOWER III, LLC
11	1043043	37° 47'53.00"N	86° 19'51.00"W	VERIZON WIRELESS
12	1225776	37° 9' 20.77" N	84° 6' 22.9" W	TEXAS GAS TRANSMISSION, LLC
13	1200816	37° 46'57.80"N	86° 36'26.30"W	THE CROMWELL GROUP, INC
14	1061965	37° 46'51.00"N	86° 27'42.00"W	COUNTY OF BRECKENRIDGE
15	1261014	37° 46'45.50"N	86° 26'56.50"W	BIG RIVERS ELECTRIC CORPORATION
16	1200744	37° 46'34.00"N	86° 28'60.00"W	BIG RIVERS ELECTRIC CORPORATION
17	1042282	37° 46'14.20"N	86° 26'6.90"W	BRECKENRIDGE BROADCASTING CO INC
18	1305582	37° 45'52.70"N	86° 23'17.90"W	TILLMAN INFRASTRUCTURE, LLC
19	1315005	37° 42'44.40"N	86° 31'34.60"W	TVT I, LLC
20	1050174	37° 42'44.00"N	86° 38'42.00"W	TELAVA WIRELESS, INC
21	1272916	37° 42'39.30"N	86° 31'34.60"W	VERIZON WIRELESS
22	1262107	37° 41'44.80"N	86° 25'6.20"W	VERIZON WIRELESS
23	1025097	37° 40'25.20"N	86° 27'31.70"W	CROWN CASTLE SOUTH LLC
24	1044834	37° 39'21.00"N	86° 16'11.00"W	KENTUCKY EMERGENCY WARNING SYSTEM
25	1274759	37° 38'36.30"N	86° 27'59.90"W	SBA TOWERS VI, LLC
26	1043452	37° 37'37.80"N	86° 19'2.00"W	TOWER ASSETS NEWCO IX, LLC
27	1214128	37° 36'6.20"N	86° 22'12.90"W	BETHEL FELLOWSHIP, INC
28	1268315	37° 35'8.10"N	86° 23'28.80"W	SBA MONARCH TOWERS III, LLC
NEW	TBD	37° 54'13.31"N	86° 31'40.29"W	TOWERCO



COUNTY TOWER MAP





The FAA is currently experiencing delays in processing off-airport aeronautical studies. These delays are currently resulting in an approximate 15 additional days in processing time. The FAA will continue to work aeronautical studies on a first come, first served basis. Please take this possible delay into consideration when determining when to submit your case. If your submitted aeronautical study requires priority, please contact the OEG Specialist for your state with the rationale for your request and it will be reviewed for escalation. The issue causing these delays is actively being mitigated and is expected to be resolved around August.

Archive Search Results Form 7460-1 for ASN 2023-ASO-28445-OE

Overview				
Study (ASN):	2023-ASO-28445-OE			
Prior Study:				
Status:	Determined			
Letters:	Determination			
Supplemental Form 7460-2:	Please login to add a Supplemental Form 7460-2.			
Received Date:	09/27/2023			
Entered Date:	09/27/2023			
Completion Date:	11/21/2023			
Expiration Date:	05/21/2025			
Map:	View Map			
Sponsor Information				
Sponsor:	TowerCo 2013 LLC			
Attention Of:	Henry Byrne			
Address:	5000 Valley Stone Drive			
Address2:	Suite 200			
City:	Cary			
State:	NC			
Postal Code:	27519			
Country:	US			
Phone:	919-653-5753			
Fax:	919-469-5530			
Sponsor's Representative Information				
Representative:	Wireless Applications Corporation			
Attention Of:	Ron Lageson			
Address:	111-108th Ave. NE			
Address2:	Suite 160			
City:	Bellevue			
State:	WA			
Postal Code:	98004			
Country:	US			
Phone:	425-643-5000			
Fax:	000-000-0000			
Construction Info				
Notice Of:	CONSTR			
Duration:	PERM (Months: 0 Days: 0)			
Work Schedule:	12/01/2023 to 11/30/2024			
Date Built:				
Structure Summary				
Structure Type:	Antenna Tower			
Structure Name:	KY0110 CK Stephensport COW RELO			
FCC Number:	1327526 FCC ASR Registration			
Structure Details				
Latitude (NAD 83):	37° 54' 13.31" N			
Longitude (NAD 83):	86° 31' 40.29" W			
Horizontal Datum:	NAD 83			
Survey Accuracy:	1A			
Marking/Lighting:	None			
Other Description:				
Current Marking/Lighting:	N/A Proposed Structure			
Current Marking/Lighting Other Description:				
Name:				
City:	Hardinsburg			
State:	KY			
Nearest County:	Breckinridge			
Nearest Airport:	I93			
Distance to Structure:	49995.3 feet			
On Airport:	No			
Direction to Structure:	330.02°			
Description of Location:	6360 Hwy 2779			
Description of Proposal:	Proposed site is a 199 ft AGL SSL tower, including all top-mounted appurtenances.			
Height and Elevation				
	Proposed	DNE	DET	
Site Elevation:	579			
Structure Height:	199	0	199	
Total Height (AMSL):	778	0	778	
Frequencies				
Low Freq	High Freq	Unit	ERP	Unit
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	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
2345	2360	MHz	2000	W
2496	2690	MHz	500	W

Previous [Back to Search Result](#) Next



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2023-ASO-28445-OE

Issued Date: 11/21/2023

Henry Byrne
TowerCo 2013 LLC
5000 Valley Stone Drive
Suite 200
Cary, NC 27519

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Antenna Tower KY0110 CK Stephensport COW RELO
Location: Hardinsburg, KY
Latitude: 37-54-13.31N NAD 83
Longitude: 86-31-40.29W
Heights: 579 feet site elevation (SE)
199 feet above ground level (AGL)
778 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 M.

This determination expires on 05/21/2025 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

A copy of this determination will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

If we can be of further assistance, please contact our office at (817) 222-5928, or chris.smith@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2023-ASO-28445-OE.

Signature Control No: 600360543-605236788

(DNE)

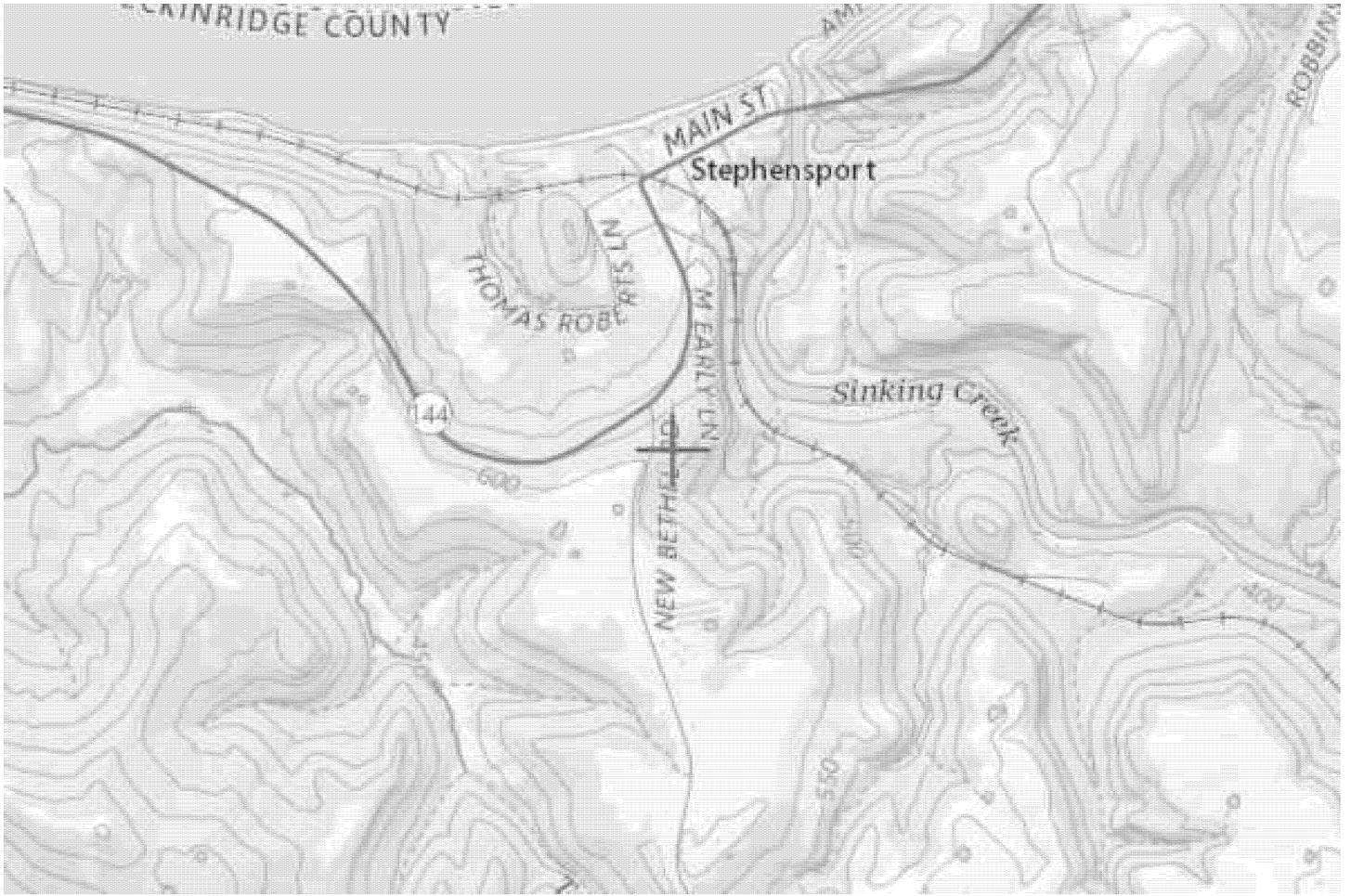
Chris Smith
Specialist

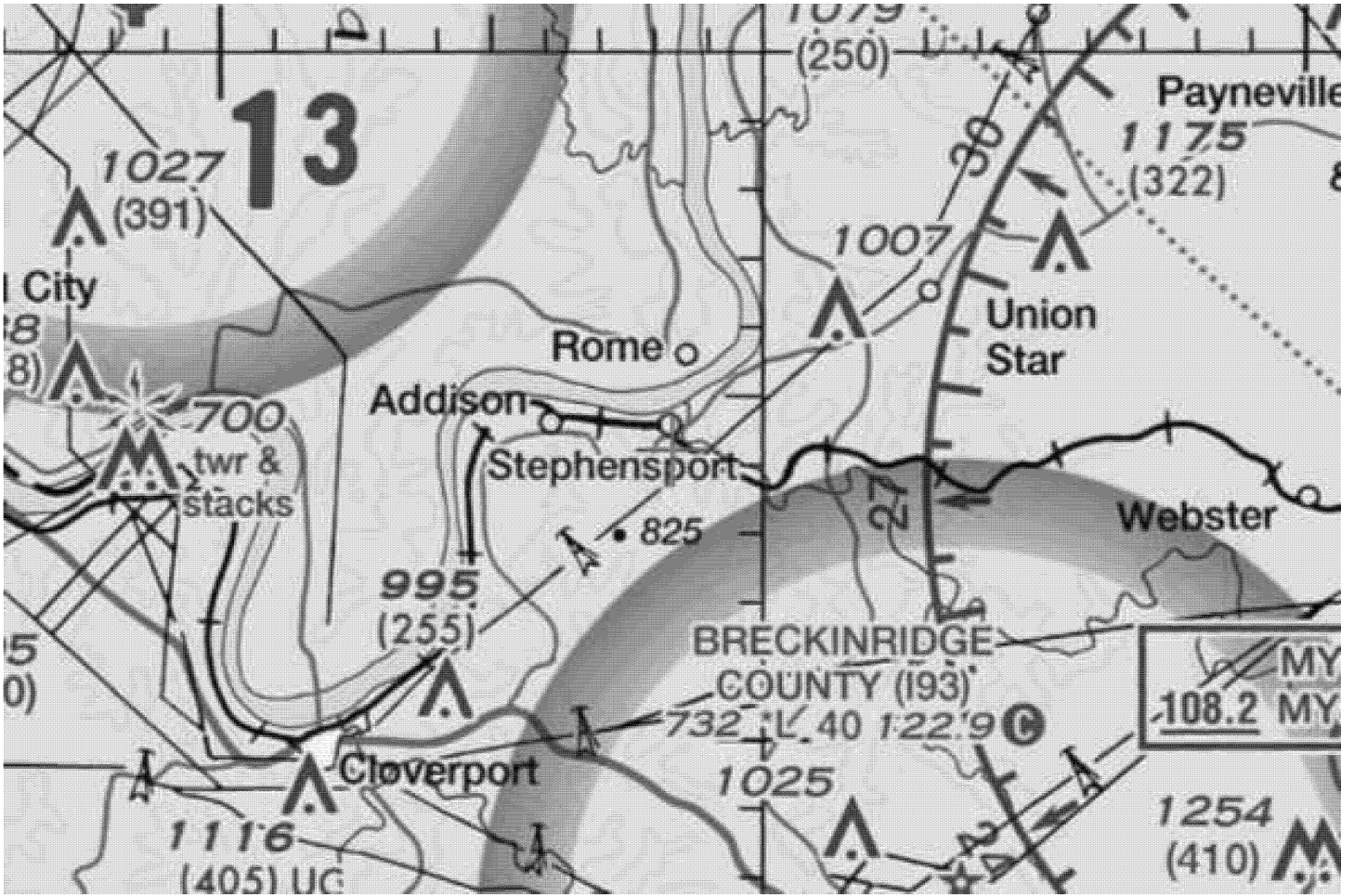
Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2023-ASO-28445-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	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
2345	2360	MHz	2000	W
2496	2690	MHz	500	W







KENTUCKY AIRPORT ZONING COMMISSION

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) TowerCo, LLC		PHONE 919-272-7766	FAX	KY AERONAUTICAL STUDY #	
ADDRESS (street) 5000 Vallestone Dr., Suite 200		CITY Cary		STATE NC	ZIP 27519
APPLICANT'S REPRESENTATIVE (name) Wireless Applications Corporation		PHONE 425-643-5000	FAX		
ADDRESS (street) 111 108 th Ave NE, Suite 160		CITY Bellevue		STATE WA	ZIP 98004
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start End	
TYPE <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		MARKING/PAINTING/LIGHTING PREFERRED <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 type="checkbox"/> Dual- red & high intensity white <input checked="" type="checkbox"/> Other None			
LATITUDE 37°54'13.31"		LONGITUDE 086°31'40.29"		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City Hardinsburg County Breckenridge		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT I93: Breckenridge			
SITE ELEVATION (AMSL, feet) 579		TOTAL STRUCTURE HEIGHT (AGL, feet) 199		CURRENT (FAA aeronautical study #) 2023-ASO-28455-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 778				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 8.035 nm				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) 150.07 degrees					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) 6360 Hwy 2779, Breckenridge County, Hardinsburg KY, 40143					
DESCRIPTION OF PROPOSAL Proposed site is a 199ft AGL SSL tower, including all top-mounted appurtenances.					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? 09/27/2023					
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.)					
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.)					
NAME Ronald Lageson, Jr	TITLE Manager	SIGNATURE 		DATE 5/31/2024	
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC			
<input type="checkbox"/> Approved	SIGNATURE			DATE	
<input type="checkbox"/> Disapproved					



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SUPPLEMENTAL GEOTECHNICAL REPORT

April 16, 2024

Prepared For:

TowerCo



CK Stephensport COW RELO KY0110

Proposed 195-Foot Self-Supporting Tower

Kentucky State Hwy 2779, Stephensport (Breckinridge County), Kentucky 40170
Latitude N 37° 54' 13.31" Longitude W 86° 31' 40.29"

Delta Oaks Group Project GEO24-20662-05
Revision 0

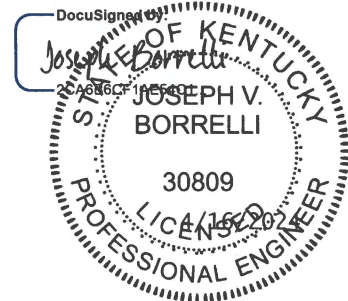
geotech@deltaoaksgroup.com

Performed By:

Sarah C. Russek, P.E.

Reviewed By:

Joseph V. Borrelli, Jr., P.E.





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INTRODUCTION

This supplemental geotechnical report has been completed for the proposed 195-foot self-supporting tower located at Kentucky State Hwy 2779 in Stephensport (Breckinridge County), Kentucky. The purpose of this interpretation was to provide engineering recommendations and subsurface condition data at the proposed tower location. A geotechnical engineering interpretation of the collected information by Engineered Tower Solutions was completed and utilized to suggest design parameters regarding the adequacy of the structure's foundation capacity under various loading conditions. This report provides the geologic material identification and design parameter recommendations for use in the analysis of the telecommunication facility's foundation.

SITE CONDITION SUMMARY

The proposed tower and compound are located in an open field exhibiting a generally flat topography across the tower compound and subject property.

REFERENCES

- Zoning Drawings, prepared by TeleCAD Wireless, dated October 5, 2023
- Geotechnical Report, prepared by Engineered Tower Solutions, dated January 23, 2024
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of one mechanical soil test boring by Engineered Tower Solutions to the termination depth of 29.0 feet bgs. The Engineered Tower Solutions report states that samples were obtained in accordance with ASTM D 1586 and D2113. A detailed breakdown of the material encountered in the Engineered Tower Solutions subsurface field investigation can be found in the boring log presented in the Appendix of this report.

A Engineered Tower Solutions boring plan portraying the spatial location of the boring in relation to the immediate surrounding area can be found in the Appendix.



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SUBSURFACE CONDITION SUMMARY

The following provides a general overview of the site's subsurface conditions based on the data obtained in the attached boring log provided in the Engineered Tower Solutions geotechnical report.

FILL

Fill material was not encountered during the Engineered Tower Solutions subsurface field investigation.

SOIL

The residual soil encountered in the Engineered Tower Solutions subsurface field investigation began at the existing ground surface in the boring and consisted of sandy lean clay underlain by partially weathered rock. The materials ranged from a medium stiff to hard consistency.

It appears that auger advancement refusal was encountered during the Engineered Tower Solutions subsurface field investigation at a depth of 19.0 feet bgs.

ROCK

Bedrock was encountered during the Engineered Tower Solutions subsurface investigation at a depth of 19.0 feet bgs. The rock can be described as highly weathered shale.

SUBSURFACE WATER

At the time of drilling, subsurface water was encountered during the Engineered Tower Solutions subsurface investigation at a depth of 5.0 feet bgs. However, subsurface water elevations can fluctuate throughout the year due to variations in climate, hydraulic parameters, nearby construction activity and other factors.

FROST PENETRATION

The frost penetration depth for Breckinridge County, Kentucky is 20 inches (1.7 feet).



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FOUNDATION DESIGN SUMMARY

In consideration of the provided tower parameters and the determined soil characteristics, Delta Oaks Group recommends utilizing a shallow foundation or drilled shaft foundations for the proposed structure. The strength parameters presented in the following sections can be utilized for design of the foundation.

GENERAL SUBSURFACE STRENGTH PARAMETERS

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-1	0.0 - 3.0	CL	110	0	400
	3.0 - 6.0	CL	115 / 53	0	600
	6.0 - 12.0	CL	120 / 58	0	900
	12.0 - 17.0	CL	120 / 58	0	2,300
	17.0 - 19.0	Partially Weathered Rock	130 / 68	0	4,000
	19.0 - 29.0	Shale	140	0	4,500

- The buoyant unit weight of soil should be utilized below a depth of 5.0 feet bgs.
- The unit weight provided assumes overburden soil was compacted to a minimum of 95% of the maximum dry density as obtained by the standard Proctor method (ASTM D 698) and maintained a moisture content within 3 percent of optimum.
- The values provided for phi angle and cohesion should be considered ultimate.



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SUBSURFACE STRENGTH PARAMETERS – SHALLOW FOUNDATION

Boring	Dimensions (feet)	Depth (feet bgs)	Net Ultimate Bearing Capacity (psf)
B-1	5.0 x 5.0	3.0	2,760
		4.0	4,290
		5.0	4,440
		6.0	4,590
	10.0 x 10.0	3.0	2,620
		4.0	4,000
		5.0	4,070
		6.0	4,140
	15.0 x 15.0	3.0	2,570
		4.0	3,900
		5.0	3,950
		6.0	4,000
	20.0 x 20.0	3.0	2,540
		4.0	3,850
		5.0	3,890
		6.0	3,920
	25.0 x 25.0	3.0	2,530
		4.0	3,820
		5.0	3,850
		6.0	3,880

- Delta Oaks Group recommends the foundation bear a minimum of 3.0 feet bgs.
- A sliding friction factor of 0.35 can be utilized along the base of the proposed foundation.
- An Ultimate Passive Pressure Table with a reduction due to frost penetration to a depth of 1.7 feet bgs is presented on the following page.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the analysis of the foundation.



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ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	110	0	400	0.00	1.00	400.00
Bottom	1.7	110	0	400	187.00	1.00	493.50
Top	1.7	110	0	400	187.00	1.00	987.00
Bottom	3.0	110	0	400	330.00	1.00	1130.00
Top	3.0	115	0	600	330.00	1.00	1530.00
Bottom	5.0	115	0	600	560.00	1.00	1760.00
Top	5.0	120	0	900	560.00	1.00	2360.00
Bottom	6.0	120	0	900	617.60	1.00	2417.60
Top	6.0	120	0	900	617.60	1.00	2417.60
Bottom	10.0	120	0	900	848.00	1.00	2648.00



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SUBSURFACE STRENGTH PARAMETERS - DRILLED SHAFT FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction - Uplift (psf)
B-1	0.0 - 3.0	--	--	--
	3.0 - 6.0	7,570	320	320
	6.0 - 9.0	14,020	490	490
	9.0 - 12.0	21,720	490	490
	12.0 - 17.0	31,920	1,260	1,260
	17.0 - 19.0	39,050	2,040	2,040
	19.0 - 29.0	38,950	2,190	2,190

- The top 3.0 feet of soil should be ignored due to the frost penetration and the potential soil disturbance during construction.
- The values presented assume the concrete is cast-in-place against earth walls and any casing utilized during construction of the foundation was removed.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the analysis of the foundation.



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CONSTRUCTION

SITE DEVELOPMENT

The proposed access road and tower compound should be evaluated by a Geotechnical Engineer, or their representative, after the removal or "cutting" of the areas to design elevation but prior to the placement of any structural fill material to verify the presence of unsuitable or weak material. Unsuitable or weak materials should be undercut to a suitable base material as determined by a Geotechnical Engineer, or their representative. Backfill of any undercut area(s) should be conducted in accordance with the recommendations provided in the *STRUCTURAL FILL PLACEMENT* section of this report.

Excavations should be sloped or shored in accordance and compliance with OSHA 29 CFR Part 1926, Excavation Trench Safety Standards as well as any additional local, state and federal regulations.

STRUCTURAL FILL PLACEMENT

Structural fill materials should be verified, prior to utilization, to have a minimum unit weight of 110 pcf (pounds per cubic foot) when compacted to a minimum of 95% of its maximum dry density and within plus or minus 3 percentage points of optimum moisture. Materials utilized should not contain more than 5 percent by weight of organic matter, waste, debris or any otherwise deleterious materials. The Liquid Limit should be no greater than 40 with a Plasticity Index no greater than 20. Structural fill material should contain a maximum particle size of 4 inches with 20 percent or less of the material having a particle size between 2 and 4 inches. Backfill should be placed in thin horizontal lifts not to exceed 8 inches (loose) in large grading areas and 4 inches (loose) where small handheld or walk-behind compaction equipment will be utilized. The potential suitability of on-site materials to be utilized as fill should be evaluated by a Geotechnical Engineer, or their representative just prior to construction.

During construction structural fill placement should be monitored and tested. This should include at minimum, visual observation as well as a sufficient amount of in-place field density tests by a Geotechnical Engineer, or their representative. Materials should be compacted to a minimum of 95% of the maximum dry density as determined by ASTM D 698 (standard Proctor method). Moisture contents should be maintained to within plus or minus 3 percentage points of the optimum moisture content.

SHALLOW FOUNDATIONS

Foundation excavation(s) should be evaluated by a Geotechnical Engineer, or their representative, prior to reinforcing steel and concrete placement. This evaluation should include visual observation to verify a level bearing surface; vertical side-walls with no protrusions, sloughing or caving; and the exposed bearing surface is free of deleterious material, loose soil and standing water. Excavation dimensions should be verified and testing performed on the exposed bearing surface to verify compliance with design recommendations. Bearing testing should be conducted in accordance with ASTM STP399 (Dynamic Cone Penetrometer). A 6-inch layer of compacted crushed stone should be installed prior to reinforcing steel and concrete placement. If subsurface water is encountered during excavation dewatering methods such as sump pumps or well points may be required.



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DRILLED SHAFT FOUNDATIONS

Drilled shaft foundations (caissons) are typically installed utilizing an earth auger to reach the design depth of the foundation. Specialized roller bits or core bits can be utilized to penetrate boulders or rock. The equipment utilized should have cutting teeth to result in an excavation with little or no soil smeared or caked on the excavation sides with spiral-like corrugated walls. The drilled shaft design diameter should be maintained throughout the excavation with a plumbness tolerance of 2 percent of the length and an eccentricity tolerance of 3 inches from plan location. A removable steel casing can be installed in the shaft to prevent caving of the excavation sides due to soil relaxation. Upon completion of the drilling and casing placement, loose soils and subsurface water greater than 3-inches in depth should be removed from the bottom of the excavation for the "dry" installation method. The drilled shaft installation should be evaluated by a Geotechnical Engineer, or their representative, to verify suitable end bearing conditions, design diameter and bottom cleanliness. The evaluation should be conducted immediately prior to as well as during concrete placement operations.

The drilled shaft should be concreted as soon as reasonably practical after excavation to reduce the deterioration of the supporting soils to prevent potential caving and water intrusion. A concrete mix design with a slump of 6 to 8 inches employed in conjunction with the design concrete compressive strength should be utilized for placement. Super plasticizer may be required to obtain the recommended slump range. During placement, the concrete may fall freely through the open area in the reinforcing steel cage provided it does not strike the reinforcing steel and/or the casing prior to reaching the bottom of the excavation. The removable steel casing should be extracted as concrete is placed. During steel casing removal a head of concrete should be maintained above the bottom of the casing to prevent soil and water intrusion into the concrete below the bottom of the casing.

If subsurface water is anticipated and/or weak soil layers are encountered drilled shafts are typically installed utilizing the "wet" method by excavating beneath a drilling mud slurry. The drilling mud slurry is added to the drilled shaft excavation after groundwater has been encountered and/or the sides of the excavation are observed to be caving or sloughing. Additional inspection by a Geotechnical Engineer, or their representative, during the "wet" method should consist of verifying maintenance of sufficient slurry head, monitoring the specific gravity, pH and sand content of the drilling slurry, and monitoring any changes in the depth of the excavation between initial approval and just prior to concreting.

Concrete placement utilizing the "wet" method is conducted through a tremie pipe at the bottom of the excavation with the drilling mud slurry level maintained at a minimum of 5 feet or one shaft diameter, whichever is greater, above the ground water elevation. The bottom of the tremie should be set one tremie pipe diameter above the excavation. A closure flap at the bottom of the tremie or a sliding plug introduced into the tremie before the concrete is recommended to reduce the potential contamination of the concrete by the drilling mud slurry. The bottom of the tremie must be maintained in the concrete during placement. Additional concrete should be placed through the tremie causing the slurry to overflow from the excavation in order to reduce the potential for the development of "slurry pockets" remaining in the drilled shaft.



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QUALIFICATIONS

The design parameters and conclusions provided in this report have been determined in accordance with generally accepted geotechnical engineering practices and are considered applicable to a rational degree of engineering certainty based on the data available at the time of report preparation and our practice in this geographic region. All recommendations and supporting calculations were prepared based on the data available at the time of report preparation and knowledge of typical geotechnical parameters in the applicable geographic region.

The subsurface conditions used in the determination of the design recommendations contained in this report are based on interpretation of subsurface data obtained at specific boring locations. Irrespective of the thoroughness of the subsurface investigation, the potential exists that conditions between borings will differ from those at the specific boring locations, that conditions are not as anticipated during the original analysis, or that the construction process has altered the soil conditions. That potential is significantly increased in locations where proposed fill materials are encountered. Additionally, the nature and extent of these variations may not be evident until the commencement of construction. Therefore, a geotechnical engineer, or their representative, should observe construction practices to confirm that the site conditions do not differ from those conditions anticipated in design. If such variations are encountered, Delta Oaks Group should be contacted immediately in order to provide revisions and/or additional site exploration as necessary. No warranty, expressed or implied, is presented.

Delta Oaks Group appreciates the opportunity to be of service for this Supplemental Geotechnical Report. Please do not hesitate to contact Delta Oaks Group with any questions or should you require additional service on this project.



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APPENDIX

BORING LOCATION PLAN
CK STEPHENSPORT COW RELO (KY0110)

Job Number: 23123131

January 23, 2024



Engineered Tower Solutions, PLLC - 3227 Wellington Court - Raleigh, NC 27615
(919) 782-2710



BORING NUMBER B-1

PAGE 1 OF 1

CLIENT Tower Co. PROJECT NAME CK STEPHENSPORT COW RELO (KY0110)
 PROJECT NUMBER 23123131 PROJECT LOCATION 6360 Highway 2779, Hardinsburg, KY 40143
 DATE 1/17/2024 COORDINATES 37.9036, -86.5278
 DRILLING METHOD Hollow Stem Auger (HSA) and Rock Coring GROUND WATER LEVELS:
 DRILLING EQUIPMENT CME 45 ∇ AT TIME OF DRILLING 5.00 ft / Elev 574.00 ft
 LOGGED BY J. Varela ∇ AT END OF DRILLING 5.00 ft / Elev 574.00 ft
 NOTES _____ ∇ AFTER DRILLING 5.00 ft / Elev 574.00 ft

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)
0					
0 - 5		SANDY LEAN CLAY (CL) , brown and tan, moist, medium stiff to stiff.	SS 1		2-2-2 (4)
5			SS 2		1-3-3 (6)
5 - 10			SS 3		3-4-5 (9)
10			SS 4		2-4-5 (9)
10 - 15		SANDY LEAN CLAY (CL) , brown and tan, moist, very stiff.			
15			SS 5		6-8-15 (23)
15 - 20		PARTIALLY WEATHERED ROCK (PWR) , sampled as shale.			
20		SHALE , highly weathered.	SS 6		40-50/0"
20 - 29.0			RC 1	29 (0)	

Bottom of borehole at 29.0 feet.

ETS - BORING W/ROCK CORING 2 - ETS DATABASE - JUN30.GDT - 1/23/24 13:24 - R:\2023\123131 - CK STEPHENSPORT COW RELO\GEV7210 - GEOTECHREPORT\KY0110.GPJ

DIRECTIONS TO SITE

DIRECTIONS FROM BRECKENRIDGE COUNTY COURTHOUSE:

HEAD NORTH ON KY-259 N / S MAIN ST TOWARD 2ND ST., CONTINUE TO FOLLOW KY-259 N 3.8 MI,
TURN LEFT ONTO HWY 2779/NEW BETHEL RD, 6.7 MI, DESTINATION WILL BE ON THE LEFT.

PREPARED BY CLARK, QUINN, MOSES, SCOTT & GRAHN, LP, 317-637-1321

Prepared by Jason Catalini
And after recording return to:
TowerCo 2013 LLC
5000 Valleystone Drive, Suite 200
Cary, NC 27519
919-653-5700

(Recorder's Use Above this Line)
Parcel No.: 41-3D

STATE OF KENTUCKY)
)
COUNTY OF BRECKINRIDGE)

MEMORANDUM OF LEASE

This Memorandum of Lease is entered into on this 21st day of August, 2023, by and between **COREY M. BIDDLE and LISA A. BIDDLE**, husband and wife, having a mailing address of 6070 Haysville Rd, Guston, KY 40142 (hereinafter referred to as "Lessor") and **TOWERCO 2013 LLC**, a Delaware limited liability company having a mailing address of 5000 Valleystone Drive, Suite 200, Cary, North Carolina 27519 (hereinafter referred to as "Lessee").

1. Lessor and Lessee entered into that certain Ground Lease Agreement dated the 21st day of August, 2023 (the "Lease") for certain real property and easements as described in Exhibit B attached hereto (collectively, the "Premises"), which are a portion of that certain parcel of real property located in Cloverport, County of Breckinridge, State of Kentucky, described in Exhibit A attached hereto (the "Land").
2. The Lease shall have an initial term of five (5) years, with fifteen (15) additional five (5) year renewal terms.
3. The purpose of this Memorandum is to give record notice of the Lease and of the rights created thereby all of which are hereby confirmed. In the event of a conflict between the terms of this Memorandum or the addition of any terms in this Memorandum which are not contained in the Lease, the Lease shall control. The terms of the Lease are hereby incorporated by reference.
4. Upon written notice to Lessee, Lessor is permitted to transfer the Lease only in connection with the sale of the Land and only on the following conditions: (a) the acquiring party must and will assume in writing all of the rights and obligations of Lessor under this Lease on and after the date of purchase of the Land and (b) Lessor must retain no rights or obligations under the Lease after the date of sale of the Land (a "Lessor Permitted Assignment"). Other than a Lessor Permitted Assignment, Lessor is prohibited from assigning, selling or otherwise transferring the Lease in whole or in part and Lessor is prohibited from granting any third party an easement or other real property interest in the Premises.

5. Pursuant to the Lease, Lessee has a right of first refusal to meet any bona fide offers for (i) any sale or transfers of the Land, and any (ii) grant from Lessor to a third party by easement or other legal instrument of an interest in and to any portion of the Land, the Premises or the Lease for any purpose relating to operating and maintaining communications facilities or the management thereof, with or without an assignment of the Lease to such third party, including but not limited to assignments of any right to the rent or rental stream associated with the Lease.

[REMAINDER OF PAGE INTENTIONALLY LEFT BLANK]

EXHIBIT A
DESCRIPTION OF LAND

The Land is described and/or depicted as follows:

Being Parcel #20 (6.730 acres), as shown on plat of STANLEY WILLIAMS FARM DIVISION, Section 1, recorded in Plat Cabinet B, Side 87, in Breckinridge County Clerk's Office.

BEING a part of the same property conveyed to Timothy L. Hart and Jennifer L. Hart, husband and wife, by deed from Earl M. Davis, Sr. and Nancy E. Davis, husband and wife, executed on August 4, 2006 and recorded in Deed Book 317, page 564, Breckinridge County Clerk's Office.

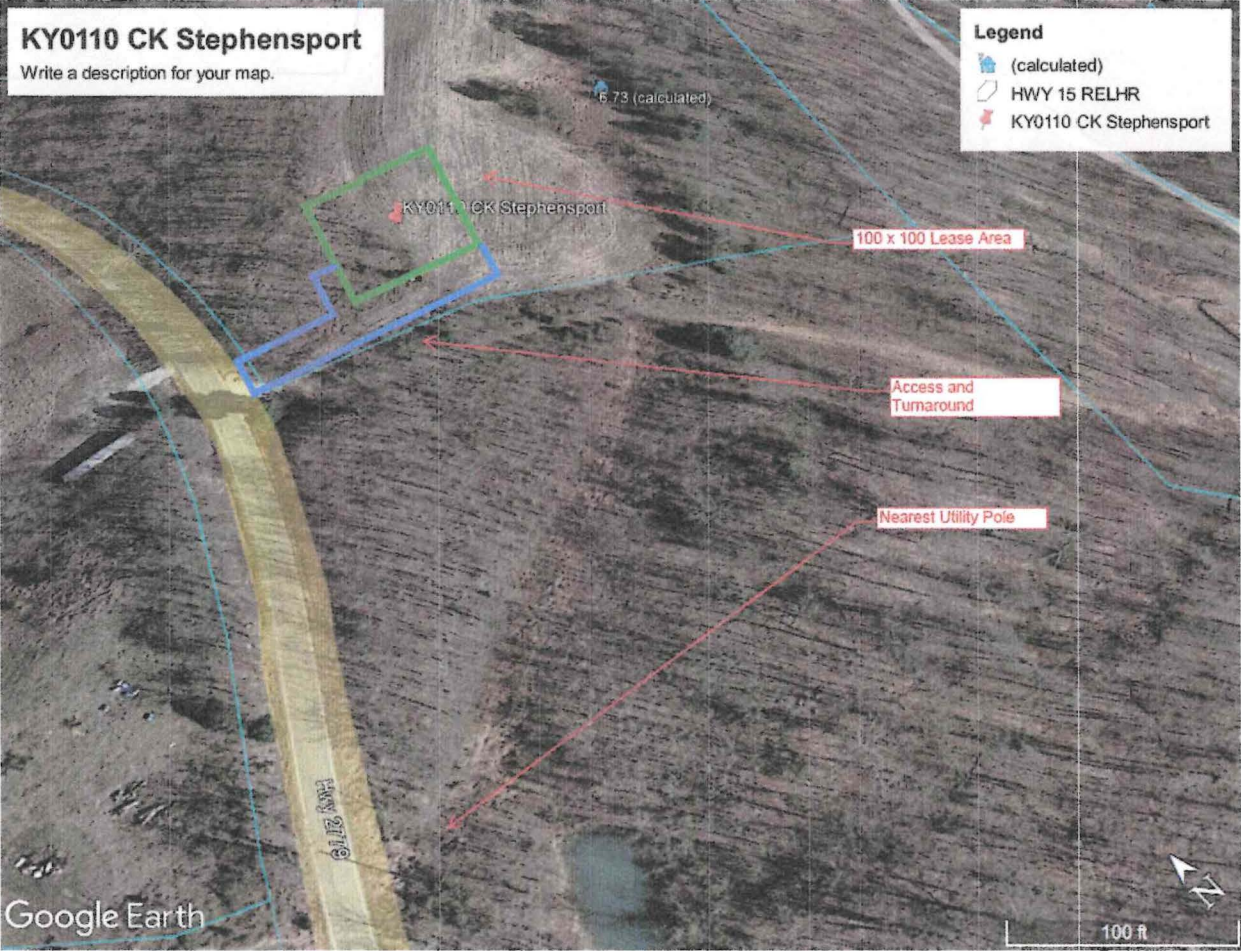
EXHIBIT B
DESCRIPTION OR DEPICTION OF PREMISES

An approximately 100' x 100' (10,000) square foot tract of land, together with easements for ingress, egress and utilities described or depicted as follows. Exact legal description to be determined by survey.

(see attached)

Note: At Lessee's option, Lessee may replace this Exhibit with an exhibit setting forth the legal description of the Premises, or an as-built drawing depicting the site. Any visual or textual representation of the Improvements (as defined in the Lease) and facilities is illustrative only, and does not limit the rights of Lessee as provided for in the Lease. Without limiting the generality of the foregoing:

1. The Premises may be setback from the boundaries of Lessor's property as required by the applicable governmental authorities.
2. The access road's width may be modified as required by governmental authorities, including police and fire departments.
3. The locations of any access and utility easements are illustrative only. Actual locations may be determined by Lessee and/or the servicing utility company in compliance with local laws and regulations.



Notification Listing with PVA Screenshots

Parcel # 41-3D
 BIDDLE COREY & LISA A
 6070 HAYSVILLE RD
 GUSTON, KY 40142

qPublic.net Breckinridge County, KY PVA Elizabeth Williams

Layers | Map | Search | Sales Search | Sales List | Comp Search | Results | Sales Results | Comp Results | **Report** | Tax Estimator | Home

Information

Summary

Parcel Number: 41-3D
 Account Number: 25809
 Location Address: 6360 HWY 2779
 Description: 5 WILLIAMS LOT 20
 (Note: Not to be used on legal documents)
 Class: Residential
 Tax District: 01 Breckinridge County
 Rate Per Thousand: 9.2500

[View Map](#)

Owner

Primary Owner: BIDDLE COREY & LISA A
 6070 HAYSVILLE RD
 GUSTON, KY 40142

Land Characteristics

Valuation

Special Assessments

This Special Assessments Information is password protected.
[Click here for information on obtaining a user account.](#)

Taxes

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
11/1/2013	\$10,000	Sliding Scale	380-733	BIDDLE COREY & LISA	HART TIMOTHY & JENNIFER L

Information

Breckinridge County, KY
 PO Box 516
 Harrodsburg, KY 40143
 Monday - Friday - 8:00 a.m. - 4:00 p.m.
 Saturday - 8:00 a.m. - 12:00 p.m.

Property Valuation Administrator
[Dana Brand](#)
 (270) 756-5154

Announcements

[How to use the Beacon Site - view Demo Videos](#)

Parcel # 41-4
 PULLEN C P HEIRS
 % JAMES T & SHEILA PULLEN
 99 BLACKLICK CHURCH LN
 FALLS OF ROUGH, KY 40119

qPublic.net Breckinridge County, KY PVA Elizabeth Williams

Layers | Map | Search | Sales Search | Sales List | Comp Search | Results | Sales Results | Comp Results | **Report** | Tax Estimator | Home

Information

Summary

Parcel Number: 41-4
 Account Number: 10506
 Location Address: N/A
 Description: (Note: Not to be used on legal documents)
 Class: Residential
 Tax District: 01 Breckinridge County
 Rate Per Thousand: 9.2500

[View Map](#)

Owner

Primary Owner: PULLEN C P HEIRS
 % JAMES T & SHEILA PULLEN
 99 BLACKLICK CHURCH LN
 FALLS OF ROUGH, KY 40119

Land Characteristics

Valuation

Special Assessments

This Special Assessments Information is password protected.
[Click here for information on obtaining a user account.](#)

Taxes

Recent Sales In Area

Sale date range:
 From: 05/02/2021 To: 05/02/2024

Information

Breckinridge County, KY
 PO Box 516
 Harrodsburg, KY 40143
 Monday - Friday - 8:00 a.m. - 4:00 p.m.
 Saturday - 8:00 a.m. - 12:00 p.m.

Property Valuation Administrator
[Dana Brand](#)
 (270) 756-5154

Announcements

[How to use the Beacon Site - view Demo Videos](#)

Parcel # 414-12A
 PEVELER WILLIAM DWIGHT & DANA M
 2919 LAURA LYNN LN
 NEWBURGH, IN 47630-8931

qPublic.net Breckinridge County, KY PVA Elizabeth Williams Search search

Layers Map Search Sales Search Sales List Comp Search Results Sales Results Comp Results **Report** Tax Estimator Home

Summary

Parcel Number: 41-12A
 Account Number: 32209
 Location Address: N/A
 Description: (Note: Not to be used on legal documents)
 Class: Farm
 Tax District: 01 Breckinridge County
 Rate Per Thousand: 9.2500

[View Map](#)

Owner

Primary Owner: PEVELER WILLIAM DWIGHT & DANA M
 2919 LAURA LYNN LN
 NEWBURGH, IN 476308931

Land Characteristics

Valuation

Special Assessments

This Special Assessments Information is password protected.
[Click here for information on obtaining a user account](#)

Taxes

Soil Capability Classification And Valuation

Class	Acres
WOODS	17

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
11/5/2020	\$1	Close Relative Sale	432-466	PEVELER WILLIAM DWIGHT 7 DANA M	EARLY TONY MARVIN

Information

Breckinridge County, KY
 PO Box 512
 Hardinsburg, KY 40143
 Monday - Friday: 8:00 a.m. - 4:00 p.m.
 Saturday: 8:00 a.m. - 12:00 p.m.

Property Valuation Administrator
Dana Brand
 (270) 756-5154

Announcements

[How to use the Beacon site - View Demo Videos](#)

Parcel # 41-12F-2
 POYNTER JUSTIN TERRY
 PO BOX 51
 STEPHENSPORT, KY 40170-0051

qPublic.net Breckinridge County, KY PVA Elizabeth Williams Search search

Layers Map Search Sales Search Sales List Comp Search Results Sales Results Comp Results **Report** Tax Estimator Home

Summary

Parcel Number: 41-12F-2
 Account Number: 31225
 Location Address: 690 M EARLY LN
 Description: (Note: Not to be used on legal documents)
 Class: Farm
 Tax District: 01 Breckinridge County
 Rate Per Thousand: 9.2500

[View Map](#)

Owner

Primary Owner: [POYNTER JUSTIN TERRY](#)
 (COMBINED ACCOUNT)
 PO BOX 51
 STEPHENSPORT, KY 401700051

Land Characteristics

Valuation

Special Assessments

Taxes

Soil Capability Classification And Valuation

Class	Acres
CROP_	13

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
2/14/2020	\$62,000	Multiple Properties	425-341	POYNTER JUSTIN TERRY	BOGGS GARY D & THELMA JO

Information

Breckinridge County, KY
 PO Box 515
 Hardinsburg, KY 40143
 Monday - Friday: 8:00 a.m. - 4:00 p.m.
 Saturday: 8:00 a.m. - 12:00 p.m.

Property Valuation Administrator
Dana Brand
 (270) 756-5154

Announcements

[How to use the Beacon site - View Demo Videos](#)

Parcel # 41-3C
 POYNTER JUSTIN TERRY
 PO BOX 51
 STEPHENSPORT, KY 40170-0051

qPublic.net Breckinridge County, KY PVA Elizabeth Williams Search search...

Layers Map Search Sales Search Sales List Comp Search Results Sales Results Comp Results **Report** Tax Estimator Home

Summary

Parcel Number: 41-3C
 Account Number: 31225
 Location Address: N/A
 Description: STANLEY WILLIAMS LOT 19
 (Note: Not to be used on legal documents)
 Class: Farm
 Tax District: 01 Breckinridge County
 Rate Per Thousand: 9.2500

[View Map](#)

Owner

Primary Owner: [POYNTER JUSTIN TERRY](#)
 (COMBINED ACCOUNT)
 PO BOX 51
 STEPHENSPORT, KY 401700051

Land Characteristics

Valuation

Special Assessments


Soil Capability Classification And Valuation

Class	Acres
PASTURE_	5
WOODS	6

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
2/14/2020	\$42,000	Multiple Properties	425-341	POYNTER JUSTIN TERRY	BOGGS GARY D & THELMA JO

Information



Breckinridge County, KY
 PO Box 516
 Hardinsburg, KY 40143
 Monday - Friday: 8:00 a.m. - 4:00 p.m.
 Saturday: 9:00 a.m. - 12:00 p.m.

Property Valuation Administrator
[Dana Bland](#)
 (270) 756-5154

Announcements

[How to use the Beacon site - view Demo Videos](#)

Parcel # 41-3
 CARMAN ROBERT D
 6201 HWY 2779
 HARDINSBURG, KY 40143

qPublic.net Breckinridge County, KY PVA Elizabeth Williams Search search...

Layers Map Search Sales Search Sales List Comp Search Results Sales Results Comp Results **Report** Tax Estimator Home

Summary

Parcel Number: 41-3
 Account Number: 33198
 Location Address: 6201 HWY 2779
 Description: LAND & HOUSE & BLDGS
 (Note: Not to be used on legal documents)
 Class: Residential
 Tax District: 01 Breckinridge County
 Rate Per Thousand: 9.2500

[View Map](#)

Owner

Primary Owner: [CARMAN ROBERT D](#)
 6201 HWY 2779
 HARDINSBURG, KY 40143

Land Characteristics

Valuation

Special Assessments



Taxes

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
7/26/2021	\$130,000	Arms-Length Transaction	440-486	CARMAN ROBERT D	GRANTHAM MICHAEL P & LISA HAZELTON

Information

Breckinridge County, KY
 PO Box 516
 Hardinsburg, KY 40143
 Monday - Friday: 8:00 a.m. - 4:00 p.m.
 Saturday: 9:00 a.m. - 12:00 p.m.

Property Valuation Administrator
[Dana Bland](#)
 (270) 756-5154

Announcements

[How to use the Beacon site - view Demo Videos](#)

Parcel # 41-3J-1
 BIDDLE COREY M
 6070 HAYESVILLE RD
 GUSTON, KY 40142

qPublic.net Breckinridge County, KY PVA Elizabeth Williams Search search_ Q

Layers Map Search Sales Search Sales List Comp Search Results Sales Results Comp Results **Report** Tax Estimator Home

Summary

Parcel Number: 41-3J-1
 Account Number: 32091
 Location Address: N/A
 Description: 5 WILLIAMS LOTS 21 THRU 27
 (Note: Not to be used on legal documents)
 Class: Farm
 Tax District: 01 Breckinridge County
 Rate Per Thousand: 9.2500

[View Map](#)

Owner

Primary Owner
[BIDDLE COREY M](#)
 6070 HAYESVILLE RD
 GUSTON, KY 40142

Land Characteristics

Valuation

Special Assessments

Taxes

Soil Capability Classification And Valuation


Class	Acreage
CROP_	2
WOODS	18

Improvement Information

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
5/29/2009	\$30,000	Partial Sale	340-030	BIDDLE COREY	PAUL EUGENE PRESLEY & DONNA G

Information



Breckinridge County, KY
 PO Box 519
 Hardinsburg, KY 40143
 Monday - Friday: 9:00 a.m. - 4:00 p.m.
 Saturday: 8:00 a.m. - 12:00 p.m.

Property Valuation Administrator
[Dana Brand](#)
 (270) 756-5154

Announcements

[How to use the Beacon site - view Demo Videos](#)

Parcel # 41-3A
 HUTCHISON ABBIE ANN
 12204 N HWY 259
 HARDINSBURG, KY 40143

qPublic.net Breckinridge County, KY PVA Elizabeth Williams Search search_ Q

Layers Map Search Sales Search Sales List Comp Search Results Sales Results Comp Results **Report** Tax Estimator Home

Summary

Parcel Number: 41-3A
 Account Number: 35403
 Location Address: N/A
 Description: Inc. 41-17-1STANLEY WILLIAMS 31-32-33-34
 (Note: Not to be used on legal documents)
 Class: Farm
 Tax District: 01 Breckinridge County
 Rate Per Thousand: 9.2500

[View Map](#)

Owner

Primary Owner
[HUTCHISON ABBIE ANN](#)
 12204 N HWY 259
 HARDINSBURG, KY 40143

Land Characteristics

Valuation

Special Assessments

Taxes


Soil Capability Classification And Valuation

Class	Acreage
WOODS	27

Sale Information

Sale Date	Sale Price	Sale Type	Book-Page	Grantee	Grantor
7/6/2023	\$1	Close Relative Sale	458-648	HUTCHISON ABBIE ANN	HUTCHISON ROBERT L ESTATE

Information



Breckinridge County, KY
 PO Box 515
 Hardinsburg, KY 40143
 Monday - Friday: 9:00 a.m. - 4:00 p.m.
 Saturday: 8:00 a.m. - 12:00 p.m.

Property Valuation Administrator
[Dana Brand](#)
 (270) 756-5154

Announcements

[How to use the Beacon site - view Demo Videos](#)



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

May 3, 2024

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Stephensport**

Cellco Partnership, d/b/a Verizon Wireless and TowerCo are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on the east side of HWY 2779, south of KY 144, Stephensport, KY 40170 (North Latitude: (37° 54' 13.31", West Longitude 86° 31' 40.29"). The proposed facility will include a 195-foot tall antenna tower, plus a 4-foot lightning arrestor and related ground facilities. Site name is Stephensport. It should be noted that this tower will replace the existing temporary tower located on the north side of River View Drive, west of HWY 2779.

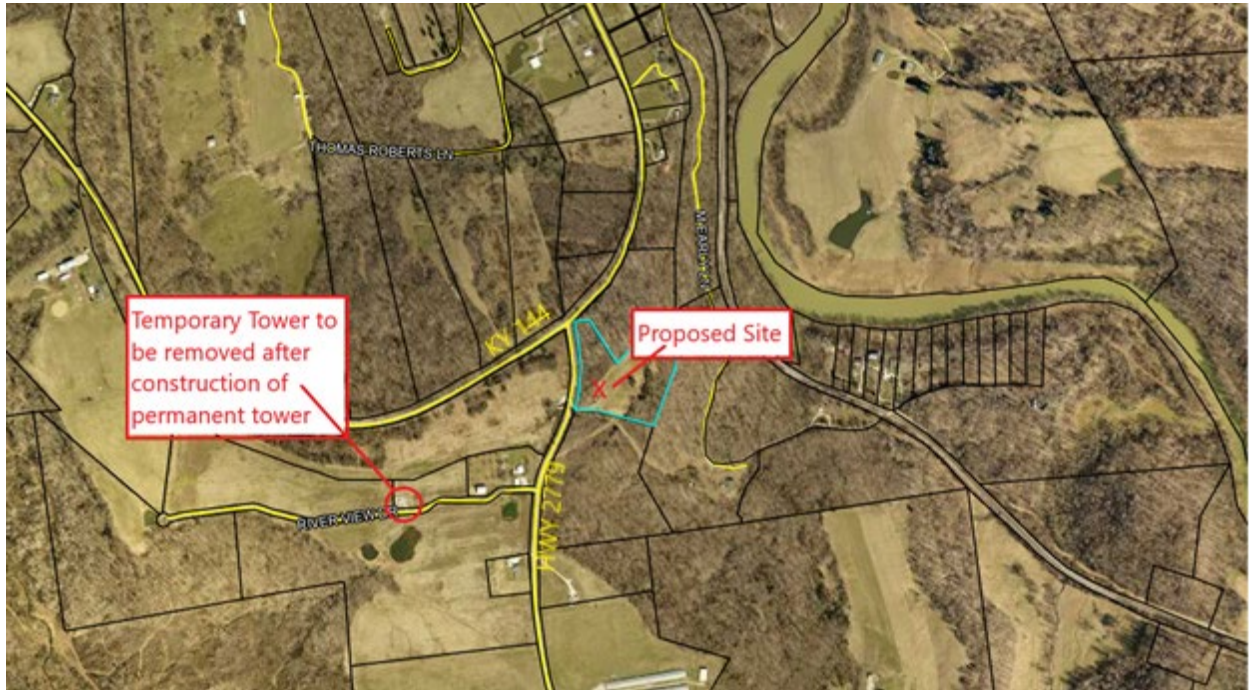
This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2024-00134 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. 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/mnw
Enclosure

Location Map



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



7012 0470 0001 8048 4279

BIDDLE COREY & LISA A
6070 HAYSVILLE RD
GUSTON, KY 40142

FIRST-CLASS



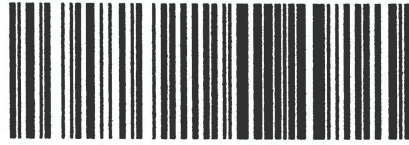
US POSTAGE^{IMI}PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 03 2024

CERTIFIED MAILTM

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



7012 0470 0001 8048 4286

PULLEN C P HEIRS
% JAMES T & SHEILA PULLEN
99 BLACKLICK CHURCH LN
FALLS OF ROUGH, KY 40119

FIRST-CLASS



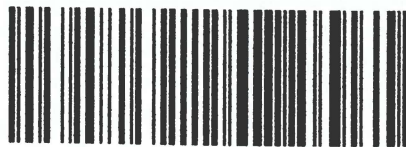
US POSTAGE^{IMI}PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 03 2024

CERTIFIED MAILTM

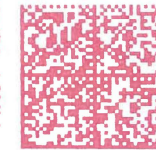
ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4293

PEVELER WILLIAM DWIGHT
& DANA M
2919 LAURA LYNN LN
NEWBURGH, IN 47630-8931

FIRST-CLASS



US POSTAGE^{IMI}PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 03 2024

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



7012 0470 0001 8048 4309

POYNTER JUSTIN TERRY
PO BOX 51
STEPHENSPORT, KY 40170-0051

FIRST-CLASS



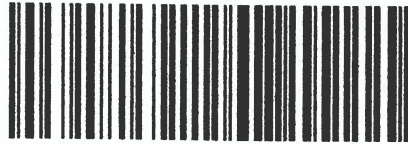
US POSTAGE^{IMI}PITNEY BOWES



ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 03 2024

CERTIFIED MAILTM

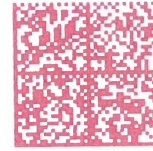
ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4316

CARMAN ROBERT D
6201 HWY 2779
HARDINSBURG, KY 40143

FIRST-CLASS



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ZIP 46204 \$ 008.69⁰
02 7H
0006035028 MAY 03 2024

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7012 0470 0001 8048 4323

BIDDLE COREY M
6070 HAYESVILLE RD
GUSTON, KY 40142

FIRST-CLASS



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02 7H
0006035028 MAY 03 2024

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Clark, Quinn, Moses, Scott & Grahn, LLP



7012 0470 0001 8048 4330

HUTCHISON ABBIE ANN
12204 N HWY 259
HARDINSBURG, KY 40143

FIRST-CLASS



US POSTAGE™IMPITNEY BOWES



ZIP 46204
02 7H
0006035028 **\$ 008.69⁰**
MAY 03 2024

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:

PEVELER WILLIAM DWIGHT
& DANA M
2919 LAURA LYNN LN
NEWBURGH, IN 47630-8931



9590 9402 8749 3310 9189 00

2. Article Number (Transfer from service label)
7012 0470 0001 8048 4293

PS Form 3811, July 2020 PSN 7530-02-000-1053

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery
5/4

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

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restrict 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"/> Mail	
<input type="checkbox"/> Mail Restricted Delivery (over \$500)	

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:

PULLEN C P HEIRS
% JAMES T & SHEILA PULLEN
99 BLACKLICK CHURCH LN
FALLS OF ROUGH, KY 40119



9590 9402 8749 3310 9189 17

2. Article Number (Transfer from service label)
7012 0470 0001 8048 4286

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery
Sheila Pullen 5/7

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

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restrict 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"/> Mail	
<input type="checkbox"/> Mail Restricted Delivery (over \$500)	

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:

HUTCHISON ABBIE ANN
12204 N HWY 259
HARDINSBURG, KY 40143



9590 9402 8749 3310 9188 63

2. Article Number (Transfer from service label)
7012 0470 0001 8048 4330

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *[Signature]* Agent
 Addressee

B. Received by (Printed Name) C. Date of Delivery

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

3. Service Type

<input type="checkbox"/> Adult Signature	<input type="checkbox"/> Priority Mail Express®
<input type="checkbox"/> Adult Signature Restricted Delivery	<input type="checkbox"/> Registered Mail™
<input checked="" type="checkbox"/> Certified Mail®	<input type="checkbox"/> Registered Mail Restrict 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"/> Mail	
<input type="checkbox"/> Mail Restricted Delivery (over \$500)	

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, CENTRAL, NORTHERN MID-ATLANTI...

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

70120470000180484279

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

Your item arrived at our INDIANAPOLIS IN DISTRIBUTION CENTER origin facility on May 25, 2024 at 5:25 pm. The item is currently in transit to the destination.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Feedback

In Transit from Origin Processing

Arrived at USPS Regional Origin Facility

INDIANAPOLIS IN DISTRIBUTION CENTER

May 25, 2024, 5:25 pm

Unclaimed/Being Returned to Sender

IRVINGTON, KY 40146

May 21, 2024, 1:18 pm

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates



USPS Tracking Plus®





Product Information

See Less ^

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

FAQs

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, CENTRAL, NORTHERN MID-ATLANTI...

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

70120470000180484323

[Copy](#)

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Latest Update

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Feedback

Moving Through Network

In Transit to Next Facility

May 27, 2024

Unclaimed/Being Returned to Sender

IRVINGTON, KY 40146

May 21, 2024, 1:18 pm

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates



USPS Tracking Plus®



Product Information



See Less 

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, CENTRAL, NORTHERN MID-ATLANTI...

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

70120470000180484316

[Copy](#)

[Add to Informed Delivery \(https://informedelivery.usps.com/\)](https://informedelivery.usps.com/)

Latest Update

Your package is moving within the USPS network and is on track to be delivered to its final destination. It is currently in transit to the next facility.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Feedback

Moving Through Network

In Transit to Next Facility

May 27, 2024

Unclaimed/Being Returned to Sender

HARDINSBURG, KY 40143

May 21, 2024, 7:56 am

[See All Tracking History](#)

[What Do USPS Tracking Statuses Mean? \(https://faq.usps.com/s/article/Where-is-my-package\)](https://faq.usps.com/s/article/Where-is-my-package)

Text & Email Updates



USPS Tracking Plus®



Product Information



See Less 

Track Another Package

Enter tracking or barcode numbers

Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)

ALERT: SEVERE WEATHER IN THE SOUTH, SOUTHEAST, CENTRAL, NORTHERN MID-ATLANTI...

USPS Tracking®

[FAQs >](#)

Tracking Number:

[Remove X](#)

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May 27, 2024

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[FAQs](#)



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

May 3, 2024

Via Certified Mail, Return Receipt Requested
7012 0470 0001 8048 4262

Maurice Lucas, Judge Executive
Breckinridge County
PO Box 227
208 South Main Street
Hardinsburg, KY 40143

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2024-00134
Site Name: Stephensport

Dear Judge Lucas:

Cellco Partnership, d/b/a Verizon Wireless and TowerCo are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on the east side of HWY 2779, south of KY 144, Stephensport, KY 40170 (North Latitude: 37° 54' 13.31", West Longitude 86° 31' 40.29"). The proposed facility will include a 195-foot tall antenna tower, plus a 4-foot lightning arrestor and related ground facilities. Site name is Stephensport. It should be noted that this tower will replace the existing temporary tower located on the north side of River View Drive, west of HWY 2779.

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 2024-00134 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 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
RLB/mnw
Enclosures

Location Map



CERTIFIED MAIL™

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



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0006035028 MAY 03 2024

Maurice Lucas, Judge Executive
Breckinridge County
PO Box 227
208 South Main Street
Hardinsburg, KY 40143

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:
Maurice Lucas, Judge Executive
Breckinridge County
PO Box 227
208 South Main Street
Hardinsburg, KY 40143



9590 9402 8749 3310 9190 51

2. Article Number (Transfer from service label)

7012 0470 0001 8048 4262

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent
 Jon Alexander Addressee

B. Received by (Printed Name) *Jon Alexander* C. Date of Delivery

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: STEPHENSPORT 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.

Tower Ventures 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 2024-00134 in your correspondence.

Tower Ventures 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 2024-00134 in your correspondence.



Robert B. Scott
Charles R. Grahn
Frank D. Otte*
John "Bart" Herriman
William W. Gooden**
Michael P. Maxwell
Russell L. Brown**†
Jennifer F. Perry
Keith L. Beall
N. Davey Neal
Travis W. Cohron
Maggie L. Sadler
Kristin A. McIlwain
Olivia A. Hess

VIA EMAIL: classifiedsth@bbtel.com

The Herald News
P.O. Box 31
Hardinsburg, KY 40143

Land Use Consultant
Elizabeth Bentz Williams, AICP

*Also admitted in Montana
†Also admitted in Kentucky
**

Registered Civil Mediator

RE: Legal Notice Advertisement
Site Name: Stephensport

To Whom It May Concern,

Please publish the following legal notice advertisement in the next available edition of The Herald News Publication:

NOTICE

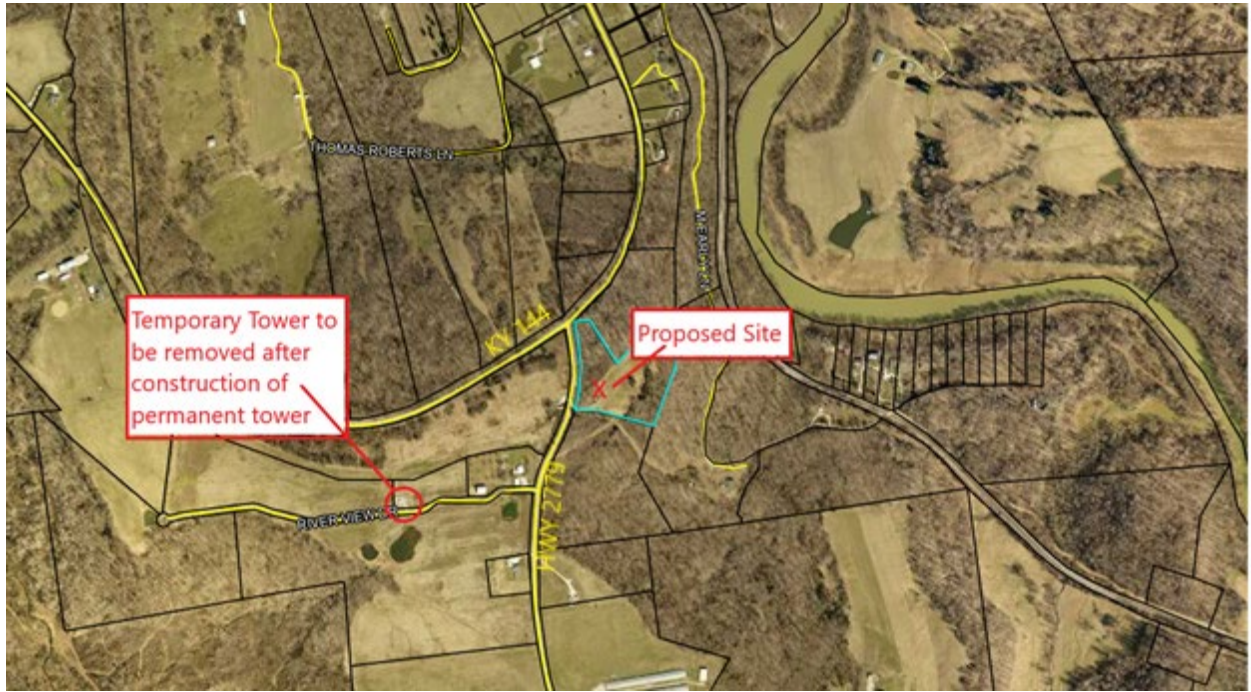
Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on the east side of HWY 2779, south of KY 144, Stephensport, KY 40170 (North Latitude: (37° 54' 13.31", West Longitude 86° 31' 40.29"). The proposed facility will include a 195-foot-tall antenna tower, plus a 4-foot lightning arrestor and related ground facilities. 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 2024-00134 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 ebw@clarkquinnlaw.com. Please call me on my cell with any questions at 317-902-2187 if you have any questions. Thank you for your assistance.

Sincerely,

A handwritten signature in cursive script that reads 'Elizabeth Bentz Williams'.

Elizabeth Bentz Williams, AICP



Radio Frequency Design Search Area





January 30, 2024

RE: Proposed Cellco Partnership d/b/a Verizon Wireless Communications

Facility Site Name: CK Stephensport COW RELO

Type of Tower: 199 ft. Monopole

Location: Intersection of Hwy 2779 and 144, Hardinsburg, KY 40143

To Whom It May Concern:

As a radio frequency engineer for Verizon Wireless, I am providing this letter to state the need for a Verizon Wireless site called, CK Stephensport COW RELO.

The CK Stephensport COW RELO site is proposed with the below objectives:

1. To improve cellular service to the residents and business in Stephensport
2. To improve service along Route 144.
3. To offload existing traffic of existing Verizon sites in this area.

Currently the area is experiencing poor service along Route 144 and in and around the city of the city of Stephensport. There is a high demand for wireless high-speed data and phone service in this area. This tower is needed to provide all Verizon customers in the area with the best experience on their wireless devices.

Raw Land – Design plans for a new tower would provide overall tower height of 199' with a Verizon Wireless Centerline of 190'. The new structure height was decided upon to best cover the residents and business in and around Stephensport, Route 144, and to offload traffic from the nearby existing Verizon sites. If we are limited to building a structure less than the proposed height, another tower would be needed in the vicinity in the near future. In addition, building a structure that is too short can cause existing taller sites to cover over the proposed site and building a site that is too tall can cause the proposed site to shoot over existing sites. Both situations create a poor experience from a user perspective. The new structure is proposed to be placed near the center of the problem area. The new tower design solves the stated objectives.

Verizon Wireless cares about the communities as well as the environment and prefers to collocate on existing structures when available. Verizon Wireless is currently collocated on some existing structures in the area. We prefer collocation due to reduced construction costs, faster deployment, and environment protection. However, Verizon Wireless was unable to find a suitable structure within the center of demand area to collocate the proposed site.



Verizon Wireless design engineers establish search area criteria in order to effectively meet coverage objectives as well as offload existing Verizon cell sites. When met, the criterion also reduces the need for a new site to cover the area in the immediate future. Each cellular 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 communications throughout the coverage area.

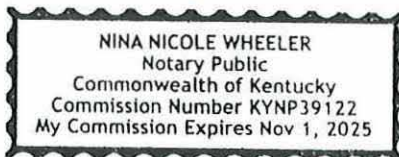
Since collocation is generally the most cost-effective means for prompt deployment of new facilities, Verizon Wireless makes every effort to investigate the feasibility for using existing towers or other tall structures for collocation when designing a new site or system expansion. However, collocation 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 and raise a system capacity overload concern. 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,

Steven Belcher
Sr RF Engineer
Verizon Wireless

1/30/24

Nina Nicole Wheeler
notary public





January 30, 2024

RE: Zoning Plots

Site Name: CK Stephensport Cow Relo

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, appearing to read "Steven Belcher".

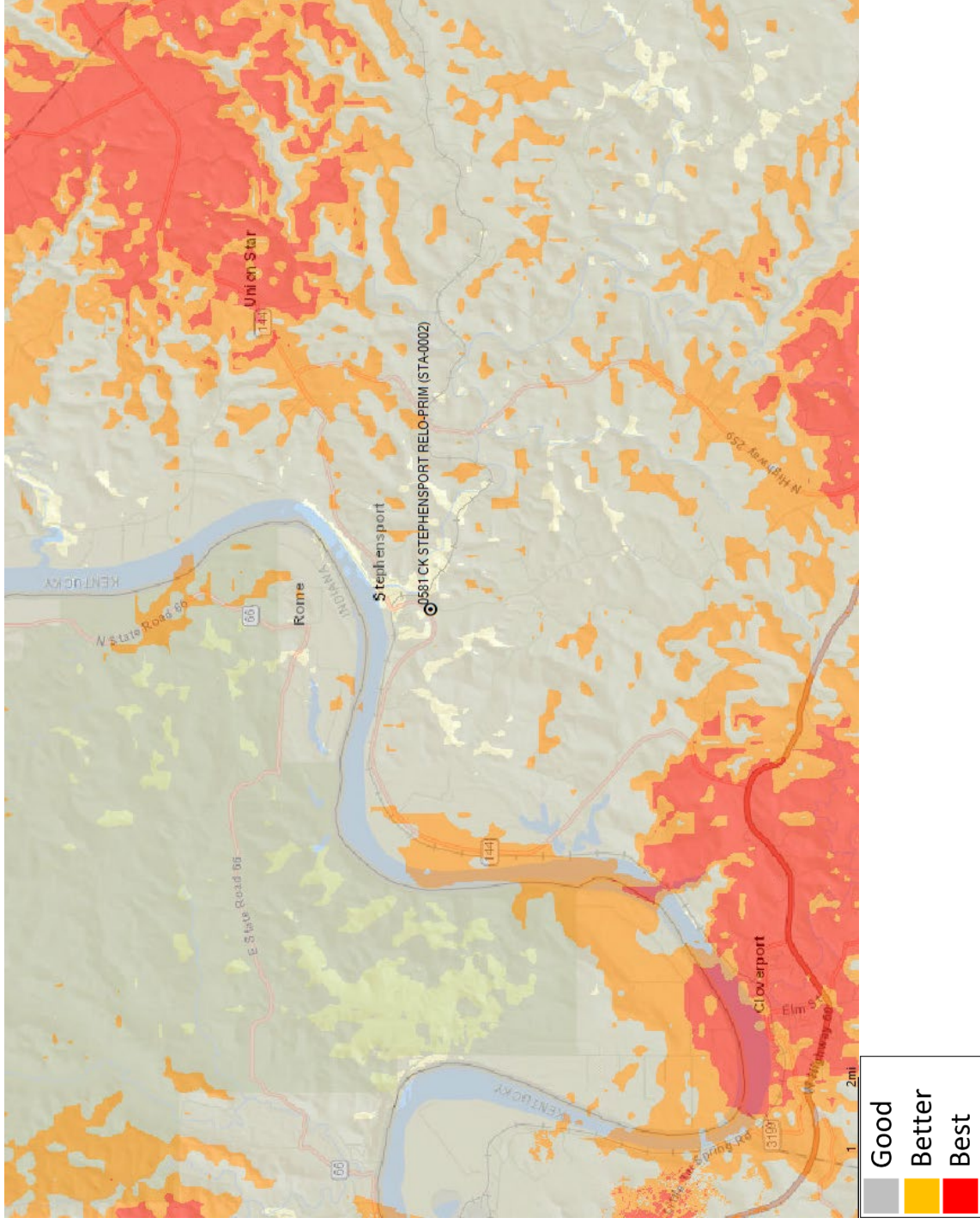
Steven Belcher

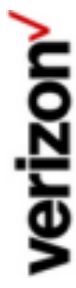
Sr RF Engineer

Verizon Wireless



Current Coverage - Without proposed site CK Stephensport Cow Relo





Coverage - With proposed site CK Stephensport Cow Relo

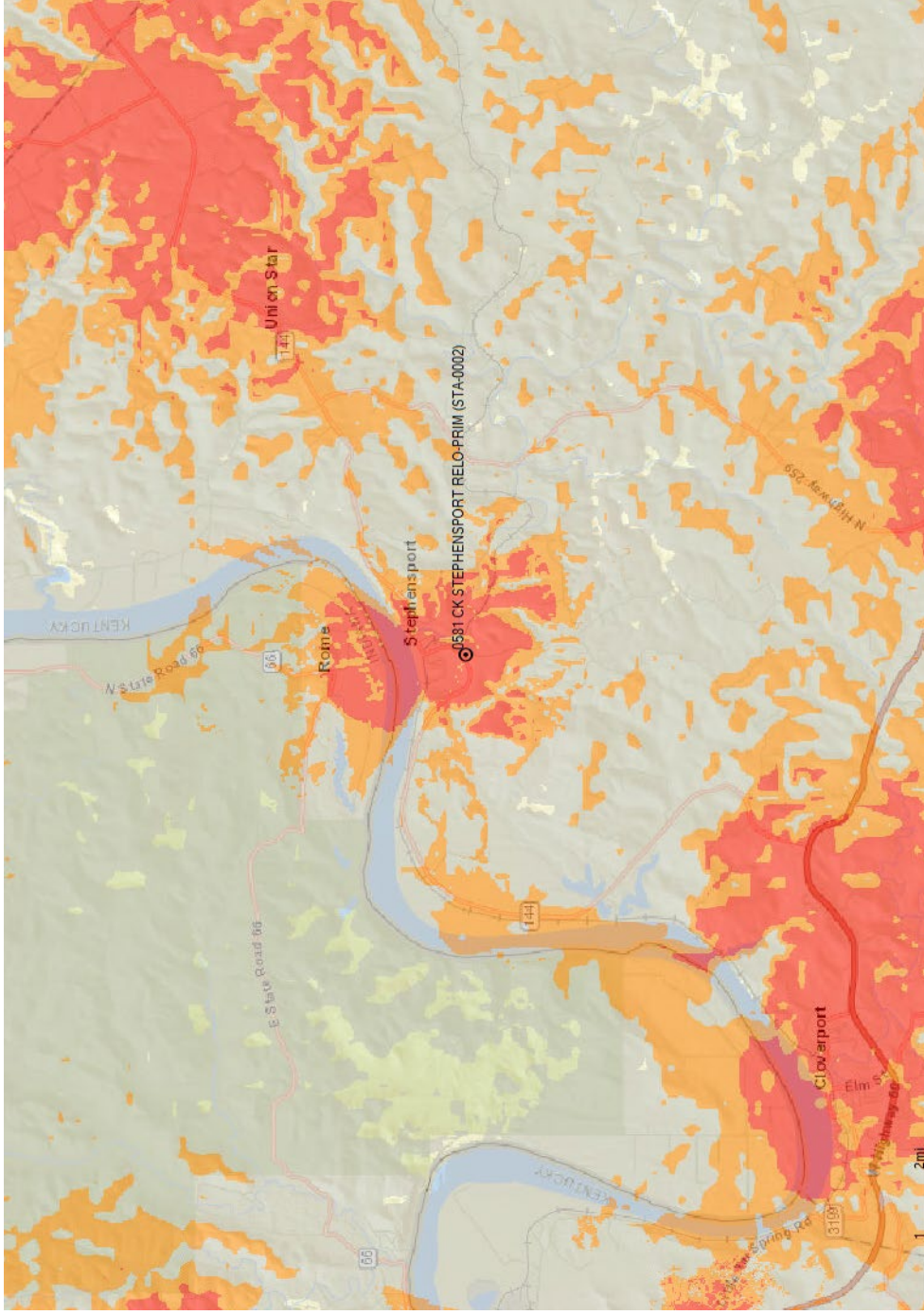


Exhibit T
List and Identity and Qualifications of Professionals

Stephen E. Hunt
Professional Engineer
Kentucky License 25003
Telecad Wireless
1961 Northpoint Blvd.
Suite 130
Hixson, TN 3734

F. V. Neeley
Professional Land Surveyor
Kentucky License 3094
Sharondale Surveying
161 Martin Road
Bon Aqua, TN 37025

Joseph V Borrelli
Professional Engineer
Kentucky License 30809
Delta Oaks Group Project
4904 Professional Court, Second Floor
Raleigh, NC 27609

Michael L. Lassiter
Professional Engineer
Kentucky License 24895
Delta Oaks Group
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Larry Rhoads
Construction Manager
Verizon Wireless
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Louisville, KY 40299

Steven Belcher
RF Engineer
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

