

**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. 2023-00382
OF A CERTIFICATE OF PUBLIC CONVENIENCE AND)
NECESSITY TO CONSTRUCT A WIRELESS)
COMMUNICATIONS FACILITY IN THE)
COMMONWEALTH OF KENTUCKY IN THE COUNTY)
OF PULASKI)

SITE NAME: ETNA

* * * * *

**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 submits 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 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 a 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 Applicant submits 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-Applicant's FCC Application 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. Co-Applicants will submit the approval as soon as received.

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Co-Applicant's services to an area

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

6. To address the above-described service needs, Co-Applicants propose to construct a WCF at on a site located on the north side of Yancy Rd, west of Henderson Road, Eubank, KY 42567 (North Latitude: (37° 14' 04.61", West Longitude 84° 32' 50.39"), 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 Spencer Loveless and Glenn E. Loveless pursuant to a Deed recorded in Deed Book 770, Page 412 in the office of the County Clerk. The proposed WCF will consist of a 350-foot tall tower, with an approximately 5-foot tall lightning arrestor attached at the top, for a total height of 355-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 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 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 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 Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site. A statement from Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless's RF Design Engineer outlining exploration of co-location opportunities is attached as **Exhibit Q**.

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

12. A copy of the Application for Kentucky Airport Zoning Commission ("KAZC") and the KAZA Approval are attached as **Exhibit G**.

13. A geotechnical engineering report was performed at the WCF site by Power of Design, 11490 Bluegrass Parkway, Louisville, Kentucky 40299, dated June 9, 2023 and is attached as **Exhibit H**. The name and address of the geotechnical engineering firm and the professional

engineer registered in Kentucky who prepared the report are included as part of **Exhibit H and Exhibit S**.

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

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

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

18. As noted on the Survey attached as part of **Exhibit C**, the surveyor has determined that the tower site and access easement are not within any flood hazard area per Flood Hazard Boundary Map, Community Panel Number 21199C0175C, Dated July 22, 2010. **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.

19. Attached as **Exhibit K** is the Notification List with screen shots of the PVA records

verified and updated using the Pulaski County PVA on November 20, 2023.

20. Co-Applicants have sent certified notices 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 November 22, 2023, is attached as **Exhibit L**. Fourteen (14) notices were sent to surrounding property owners; to date twelve (12) notice green cards have been returned, one (1) envelope has been returned, and USPS tracking indicates that one (1) notice was delivered. Copies of the mailed envelopes, returned green cards, returned envelope and USPS tracking are included in **Exhibit L**. There are no unaccountable notices.

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 USPS tracking indicating that the notice was delivered 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 Pulaski County, Kentucky. The site is located on the north side of Yancy Rd, west of Henderson Road, Eubank, KY, 42567. The site is utilized for agricultural production and the area is mostly large farm properties and smaller residential properties. The terrain in the area varies from rolling to hilly with areas of tree growth. There is no zoning or Plan Commission in Pulaski County. The general area where the proposed facility is proposed is open, tilled area and, removed a significant distance from any residential structures. The nearest residential structure is 352 feet from the proposed tower site.

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

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

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

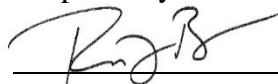
28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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

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

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

Respectfully submitted,



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



0641227.07

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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. Schepker-Assistant Secretary

Print or type name and title

June 15, 2006

Date

Signature

Print or type name and title

Date

Addendum

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

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/ftshow/certvalidate.aspx> to authenticate this certificate.

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

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

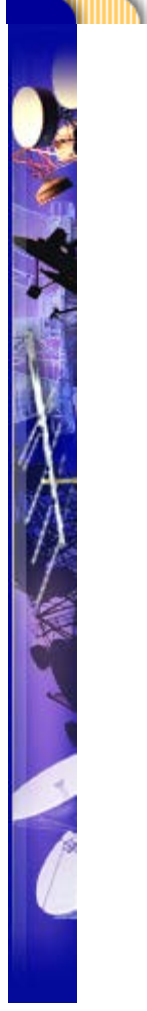
5222115 8300

SR# 20233593958

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

Authentication: 204256340

Date: 09-27-23



FCC > [WTB](#) > [ASR](#) > [Online Systems](#) > ASR Search

[FCC Site Map](#)

Antenna Structure Registration

ASR Application Search

Application A1225019

[New Search](#) [Return to Results](#) [Printable Page](#) [Reference Copy](#) [Map Application](#)

[? HELP](#)

Application Detail

File Number	A1225019	Constructed
Registration Number		Dismantled
NEPA		EMI
Status	Pending	Date Received
Purpose	Amendment	Entered
Mode	Interactive	

Antenna Structure

Structure Type L TOWER - Lattice Tower

Location (in NAD83 Coordinates - [Convert to NAD27](#))

Lat/Long	37-14-04.6 N 084-32-50.3 W	Address	Yancey Road
City, State	Eubank , KY	County	PULASKI
Zip	42567	Position of Tower in Array	
Center of AM Array			

Heights (meters)

Elevation of Site Above Mean Sea Level	328.6	Overall Height Above Ground (AGL)	108.2
Overall Height Above Mean Sea Level	436.8	Overall Height Above Ground w/o Appurtenances	106.7

Proposed Marking and/or Lighting

FAA Style A

FAA Notification

FAA Study

FAA Issue Date

Owner & Contact Information

FRN 0003715919

Owner Entity Type Corporation

Owner

RURAL CELLULAR CORPORATION
 Attention To: Network Regulatory
 5055 North Point Pkwy
 NP2NE Network Engineering
 Alpharetta , GA 30022

P: (770)797-1070

F:

E: NetworkRegulatory@VerizonWireless.com

Contact

Manager , Regulatory
 Attention To: Network Regulatory
 5055 North Point Pkwy
 NP2NE Network Engineering
 Alpharetta , GA 30022

P: (770)797-1070

F:

E: NetworkRegulatory@VerizonWireless.com

Environmental Compliance

Does the applicant request a Waiver of the Commission's rules for environmental notice?

Is the applicant submitting an Environmental Assessment?

No

No

Is another Federal Agency taking responsibility for environmental review?

Does the applicant certify to No Significant Environmental Effect pursuant to Section

No

Reason for another Federal Agency taking responsibility for environmental review

Basis for Certification

Name of Federal Agency

Local Notice Date

National Notice Date

01/16/2023

Certification

Authorized Party Le Scanve, Christophe

Authorized Representative

Receipt Date

09/15/2023

Comments**Comments**

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: RURAL CELLULAR CORPORATION

ATTN: REGULATORY
RURAL CELLULAR CORPORATION
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign KNKN940	File Number 0009139416
Radio Service CL - Cellular	
Market Numer CMA448	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003715919

Market Name Kentucky 6 - Madison
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Grant Date 09-01-2020	Effective Date 09-01-2020	Expiration Date 10-01-2030	Five Yr Build-Out Date	Print Date 09-01-2020
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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1 37-42-55.3 N 084-16-14.8 W

Address: WEST OF US-25 1.2 MILES SOUTH OF INTERSECTION OF US-25 & SR-876

City: RICHMOND **County:** MADISON **State:** KY **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 115.000

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.000	130.000	127.000	93.000	96.000	102.000	124.000	114.000
Transmitting ERP (watts)	74.000	74.000	74.000	74.000	74.000	74.000	74.000	74.000

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: RURAL CELLULAR CORPORATION

Call Sign: KNKN940

File Number: 0009139416

Print Date: 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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2 37-25-40.3 N 084-21-51.8 W

Address: ON LEAR KNOB 3 MILES NW OF

City: BROADHEAD County: ROCKCASTLE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	175.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	198.000	128.000	158.000	168.000	166.000	183.000	199.000	202.000
Transmitting ERP (watts)	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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3 37-17-21.3 N 084-15-51.8 W 430.0

Address: ON SAND HILL 2.6 MILES SOUTHWEST OF

City: LIVINGSTON County: ROCKCASTLE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	172.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	175.000	144.000	190.000	181.000	192.000	185.000	167.000	141.000
Transmitting ERP (watts)	47.000	22.000	19.000	41.000	90.000	114.000	120.000	102.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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4 37-08-57.3 N 084-05-58.8 W 408.0

Address: 1 MILE NORTH OF

City: LONDON County: LAUREL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	138.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	139.000	161.000	113.000	124.000	135.000	153.000	127.000	152.000
Transmitting ERP (watts)	40.000	34.000	54.000	128.000	146.000	137.000	146.000	95.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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5 37-36-05.3 N 084-39-36.8 W

Address: 4 MILES SOUTHWEST OF

City: LANCASTER County: LINCOLN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	128.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	139.000	148.000	120.000	148.000	104.000	119.000	100.000	148.000
Transmitting ERP (watts)	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN940

File Number: 0009139416

Print Date: 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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7	37-01-05.3 N	084-34-53.8 W			
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Address: Hilltop, 2.2 miles NNE of

City: Burnside County: PULASKI State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	196.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	183.000	178.000	176.000	206.000	210.000	185.000	219.000	211.000
Transmitting ERP (watts)	0.310	0.160	0.170	0.190	16.270	73.910	75.320	20.900

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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8	37-38-52.6 N	084-47-12.9 W	297.5	91.4	1043353
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Address: 211 FOREST AVENUE

City: DANVILLE County: BOYLE State: KY Construction Deadline:

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)	88.800	101.000	95.900	80.700	60.400	47.100	83.700	90.000
Transmitting ERP (watts)	51.720	51.720	51.720	51.720	51.340	51.720	51.720	51.720

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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9	37-52-45.3 N	084-19-32.8 W	277.0		
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Address: 0.45 MILES NORTHEAST OF INTERSECTION OF I-75 & US-25/421 1 MILE ESE OF

City: CLAYS FERRY County: CLARK State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	109.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	92.000	122.000	158.000	111.000	90.000	121.000	102.000	77.000
Transmitting ERP (watts)	1.120	6.920	58.880	100.000	100.000	91.200	22.390	0.930

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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12	37-21-22.3 N	084-55-12.8 W	336.0		
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Address: On ridge 2 3/4 miles north-notheast of the town of liberty

City: Liberty County: CASEY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	117.000	132.000	144.000	114.000	152.000	158.000	146.000	159.000
Transmitting ERP (watts)	75.000	75.000	75.000	75.000	75.000	75.000	75.000	75.000

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN940

File Number: 0009139416

Print Date: 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	36-59-59.6 N	084-06-05.0 W	366.6	91.1	1002550

Address: (South Laurel site) 1652 N Highway 1223

City: CORBIN County: LAUREL State: KY Construction Deadline:

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)	86.400	105.600	85.200	78.500	62.400	109.200	104.200	101.600
Transmitting ERP (watts)	60.890	180.300	71.530	58.190	0.640	0.640	0.640	4.200

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)	86.400	105.600	85.200	78.500	62.400	109.200	104.200	101.600
Transmitting ERP (watts)	0.580	0.580	0.720	3.690	4.920	4.620	2.530	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)	86.400	105.600	85.200	78.500	62.400	109.200	104.200	101.600
Transmitting ERP (watts)	46.980	2.590	0.640	0.640	0.640	8.220	89.280	172.970

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	37-46-29.3 N	084-19-15.8 W	287.4		

Address: MTSO CELL SITE: 124 S. KEENELAND DR

City: RICHMOND County: MADISON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	186.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	46.600	70.700	52.500	32.100	28.400	45.800	59.500	44.500
Transmitting ERP (watts)	88.000	181.800	171.600	177.600	162.000	53.600	17.200	19.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-32-51.3 N	084-19-58.8 W	378.0		

Address: BEREA CELL SITE: 3.5 KILOMETERS SOUTHWEST OF

City: BEREA County: MADISON State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	100.000							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	173.900	164.000	127.800	71.600	126.700	133.400	156.000	194.700
Transmitting ERP (watts)	100.000	100.000	100.000	100.000	100.000	100.000	100.000	100.000

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN940

File Number: 0009139416

Print Date: 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-04-42.3 N	084-48-36.8 W	366.3	91.1	1203424

Address: 3.4 miles East of Nancy, KY

City: Nancy County: PULASKI State: KY Construction Deadline:

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)	120.400	163.100	170.400	196.600	188.000	195.900	164.000	150.900
Transmitting ERP (watts)	29.000	29.000	29.000	29.000	29.000	29.000	29.000	29.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	37-38-56.9 N	084-57-46.2 W	289.0	48.2	

Address: Perryville Cell Site: 710 Cox Street

City: Perryville County: BOYLE State: KY Construction Deadline:

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)	90.100	62.100	41.400	-1.800	24.600	40.300	71.100	64.200
Transmitting ERP (watts)	99.100	143.700	70.200	6.300	0.400	0.400	0.500	14.200

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)	90.100	62.100	41.400	-1.800	24.600	40.300	71.100	64.200
Transmitting ERP (watts)	0.400	1.600	33.200	128.600	132.400	39.100	2.200	0.400

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)	90.100	62.100	41.400	-1.800	24.600	40.300	71.100	64.200
Transmitting ERP (watts)	9.000	0.400	0.400	0.400	10.400	87.000	143.500	82.100

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	37-06-10.0 N	084-35-45.0 W	388.0	91.4	1043625

Address: (Somerset site) 500 Rock Query Road

City: SOMERSET County: PULASKI State: KY Construction Deadline: 05-30-2014

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)	159.200	158.600	169.600	169.900	213.500	200.800	177.700	154.800
Transmitting ERP (watts)	110.230	148.690	21.490	0.730	0.400	0.330	0.450	7.630

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)	159.200	158.600	169.600	169.900	213.500	200.800	177.700	154.800
Transmitting ERP (watts)	0.330	0.620	0.330	0.330	2.050	69.550	163.040	61.990

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN940

File Number: 0009139416

Print Date: 09-01-2020

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	37-06-10.0 N	084-35-45.0 W	388.0	91.4	1043625

Address: (Somerset site) 500 Rock Query Road

City: SOMERSET **County:** PULASKI **State:** KY **Construction Deadline:** 05-30-2014

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)	159.200	158.600	169.600	169.900	213.500	200.800	177.700	154.800
Transmitting ERP (watts)	0.330	0.580	29.670	145.310	107.720	4.290	0.590	0.330

Control Points:

Control Pt. No. 2

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 ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WPOK659), File Number (0010160394), and Radio Service (CW - PCS Broadband).

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 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.

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: WPOK659

File Number: 0010160394

Print Date: 02-10-2023

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 (WPZX945), File Number (0009262040), and Radio Service (CW - PCS Broadband).

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 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.

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: WPZX945

File Number: 0009262040

Print Date: 03-10-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (WQGA940), File Number (0009774996), 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: WQGA940

File Number: 0009774996

Print Date: 12-21-2021

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 WQJQ692	File Number
Radio Service WU - 700 MHz Upper Band (Block C)	

FCC Registration Number (FRN): 0003290673

Grant Date 01-10-2020	Effective Date 02-11-2021	Expiration Date 06-13-2029	Print Date
Market Number REA004	Channel Block C	Sub-Market Designator 0	
Market Name Mississippi Valley			
1st Build-out Date 06-13-2013	2nd Build-out Date 06-13-2019	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. 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: 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: RURAL CELLULAR CORPORATION

ATTN: REGULATORY
RURAL CELLULAR CORPORATION
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WQUZ670), File Number, and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz)).

FCC Registration Number (FRN): 0003715919

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: RURAL CELLULAR CORPORATION

Call Sign: WQUZ670

File Number:

Print Date: 02-16-2023

The license is subject to compliance with the provisions of the January 12, 2001 Agreement between Deutsche Telekom AG, VoiceStream Wireless Corporation, VoiceStream Wireless Holding Corporation and the Department of Justice (DOJ) and the Federal Bureau of Investigation (FBI), which addresses national security, law enforcement, and public safety issues of the FBI and the DOJ regarding the authority granted by this license. Nothing in the Agreement is intended to limit any obligation imposed by Federal law or regulation including, but not limited to, 47 U.S.C. Section 222(a) and (c)(1) and the FCC's implementing regulations. The Agreement is published at VoiceStream-DT Order, IB Docket No. 00-187, FCC 01-142, 16 FCC Rcd 9779, 9853 (2001).

Reference Copy

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: WQUZ670

File Number:

Print Date: 02-16-2023

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

Call Sign WRAM732	File Number 0009262182
Radio Service WT - 600 MHz Band	

FCC Registration Number (FRN): 0003290673

Grant Date 01-09-2018	Effective Date 01-13-2021	Expiration Date 01-09-2030	Print Date 03-11-2021
Market Number PEA096	Channel Block A	Sub-Market Designator 1	
Market Name Richmond, KY			
1st Build-out Date 01-09-2024	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: WRAM732

File Number: 0009262182

Print Date: 03-11-2021

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 (WRBA638), File Number (0010283156), and Radio Service (UU - Upper Microwave Flexible Use 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:

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: CELLCO PARTNERSHIP

Call Sign: WRBA638

File Number: 0010283156

Print Date: 03-15-2023

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

Call Sign WRBA639	File Number 0010283156
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 09-07-2018	Effective Date 11-18-2022	Expiration Date 09-21-2028	Print Date 03-15-2023
Market Number BTA423	Channel Block L2	Sub-Market Designator 0	
Market Name Somerset, KY			
1st Build-out Date 06-01-2024	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: WRBA639

File Number: 0010283156

Print Date: 03-15-2023

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

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

Table with Call Sign (WREV443), File Number (0009262182), and Radio Service (UU - Upper Microwave Flexible Use 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:

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: CELLCO PARTNERSHIP

Call Sign: WREV443

File Number: 0009262182

Print Date: 03-11-2021

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

Call Sign WRHE833	File Number 0010283156
Radio Service UU - Upper Microwave Flexible Use Service	

FCC Registration Number (FRN): 0003290673

Grant Date 06-04-2020	Effective Date 11-18-2022	Expiration Date 06-04-2030	Print Date 03-15-2023
Market Number PEA096	Channel Block M1	Sub-Market Designator 0	
Market Name Richmond, 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: WRHE833

File Number: 0010283156

Print Date: 03-15-2023

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

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

Table with Call Sign (WRNF549), 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: WRNF549

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 (WRNF554), 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: WRNF554

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: RURAL CELLULAR CORPORATION

ATTN: REGULATORY
RURAL CELLULAR CORPORATION
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Table with Call Sign (WRWF636), File Number (0010160917), and Radio Service (AW - AWS (1710-1755 MHz and 2110-2155 MHz))

FCC Registration Number (FRN): 0003715919

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: RURAL CELLULAR CORPORATION

Call Sign: WRWF636

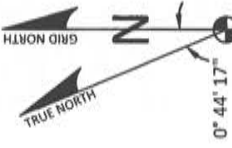
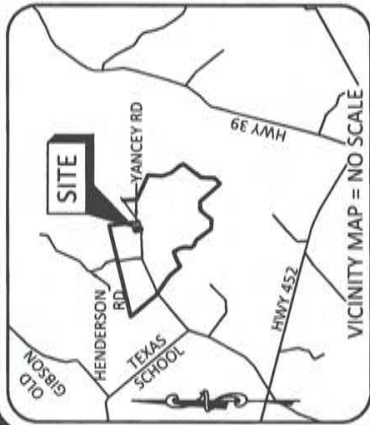
File Number: 0010160917

Print Date: 02-16-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy



BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON AUGUST 25, 2022.

FAA COORDINATE POINT
 NAD 83
 LATITUDE: 37°14'04.616383"
 LONGITUDE: -84°32'50.392519"
 NAVD 88
 ELEVATION: 1078' ± AMSL
 NORTHING: 3,611,264.8196
 EASTING: 5,271,365.0943

TEMPORARY BENCHMARK
 NORTHING: 3,611,336.055
 EASTING: 5,271,316.466
 ELEVATION: 1074.73'
 LOCATION: A SET 60D NAIL, N12°41'E 26.9'± FROM THE NORTHWEST CORNER OF THE PROPOSED LEASE AREA.

GENERAL NOTES
 NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE SUBJECT PROPERTY.
 THIS SURVEY IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT ONLY, AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT TRACT HAS BEEN PERFORMED.
 A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE EQUALS 0.05'. FOR A PRECISION OF 1:49,428 AND HAS NOT BEEN ADJUSTED.
 THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HEREON OR NOT.
 THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.
 A PORTION OF THE PARENT PARCEL IS NOT LOCATED IN A 100-YEAR FLOOD PLAIN, ZONE A (NO BASE FLOOD ELEVATIONS DETERMINED) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21199C0175C, DATED JULY 22, 2010. THE PROPOSED LEASE AREA & THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X).



PARCEL ID: 086-0-0-45
 LOUIE & BETTY ANN
 MOUNCE
 DEED BOOK 648, PAGE 215

PARCEL ID: 086-0-0-42
 SPENCER LOVELESS &
 GLENN E. LOVELESS
 TRACT 3 OF
 DEED BOOK 770, PAGE 412

PARCEL ID: 086-0-0-42
 SPENCE LOVELESS &
 GLENN E. LOVELESS
 DEED BOOK 770, PAGE 412

PARCEL ID: 086-0-0-42
 SPENCE LOVELESS &
 GLENN E. LOVELESS
 DEED BOOK 770, PAGE 412

PARCEL ID: 086-0-0-42
 SPENCE LOVELESS &
 GLENN E. LOVELESS
 DEED BOOK 770, PAGE 412

PREPARED BY: **POD**
 POWER OF DESIGN
 11490 BLUEGRASS PARKWAY
 LOUISVILLE, KY 40299
 502-437-5252

PREPARED FOR: **RURAL CELLULAR**
 D/B/A
Verizon
 CORP

REVISIONS

REV	DATE	DESCRIPTION
A	9.7.22	PRELIMINARY ISSUE
B	9.15.22	VZW ENTITY NAME
0	10.12.22	ISSUED AS FINAL

SITE INFORMATION:
 LV ETNA
 YANCEY ROAD
 EUBANK, KY 42567
 PULASKI COUNTY

TAX PARCEL NUMBER:
 086-0-0-42

PROPERTY OWNER:
 SPENCER LOVELESS &
 GLENN E. LOVELESS
 2530 TEXAS SCHOOL ROAD
 EUBANK, KY 42567

SOURCE OF TITLE:
 TRACT 3 OF
 DEED BOOK 770, PAGE 412

POD NUMBER: 22-135987
 DRAWN BY: DAP
 CHECKED BY: MEP
 SURVEY DATE: 8.30.22
 PLAT DATE: 9.2.22

SHEET TITLE:
 SITE SURVEY

THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

SHEET NUMBER: (2 pages)
B-1

LEGEND

- UTILITY POLE
- GUY ANCHOR
- P.O.B. POINT OF BEGINNING
- EOP EDGE OF PAVEMENT
- ROW RIGHT OF WAY
- EX. OVERHEAD ELECTRIC & TELEPHONE
- SET 1/2" REBAR 18" LONG
- CAPPED "PATTERSON PLS 3136"
- FOUND MONUMENT AS NOTED
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- EX. WIRE FENCE

GLOBAL POSITIONING SYSTEMS NOTE

- RANDOM CONTROL POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID18. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.03' TO 0.06' HORIZONTALLY. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.

STATE OF KENTUCKY
 LAND SURVEYOR
 MARK E. PATTERSON
 3136
 LICENSED PROFESSIONAL LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE
 I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201.18-150.

DATE: 10/12/2022

MARK PATTERSON, PLS #3136

Kentucky
 New survey this Friday - 7 am. to 6 pm.
 Call before you go.
 1-800-752-6007

FOR KENTUCKY STATE PLANS, IT IS AGAINST THE LAW TO ERECT WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE CONSTRUCTION BEGINS.

LEGAL DESCRIPTION

PROPOSED LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASE AREA, BEING A PART OF THE PARCEL CONVEYED TO SPENCER LOVELESS & GLENN E. LOVELESS AS RECORDED IN THE OFFICE OF THE CLERK OF PULASKI COUNTY, KENTUCKY IN DEED BOOK 770, PAGE 412 (TRACT 3), PARCEL ID: 086-0-0-42, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JUNE 14, 2021.

BEGINNING AT A SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136" HEREAFTER REFERRED TO AS A "SET IPC" IN THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA, HAVING A KENTUCKY STATE PLANE VALUE N:3.611,219.8006 & E:5.271,419.6222, BEING A PART OF THE PARCEL CONVEYED TO SPENCER LOVELESS & GLENN E. LOVELESS AS RECORDED IN THE OFFICE OF THE CLERK OF PULASKI COUNTY, KENTUCKY IN DEED BOOK 770, PAGE 412 (TRACT 3), PARCEL ID: 086-0-0-42; THENCE S84°32'37"W 100.00' TO A SET "IPC"; THENCE N05°27'23"W 100.00' TO A SET "IPC", HAVING A KENTUCKY STATE PLANE VALUE N:3.611,309.8386 & E:5.271,310.5665; THENCE N84°32'37"E 100.00' TO A SET "IPC"; THENCE S05°27'23"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 30, 2022.

PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT, BEING A PART OF THE PARCEL CONVEYED TO SPENCER LOVELESS & GLENN E. LOVELESS AS RECORDED IN THE OFFICE OF THE CLERK OF PULASKI COUNTY, KENTUCKY IN DEED BOOK 770, PAGE 412 (TRACT 3), PARCEL ID: 086-0-0-42, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JUNE 14, 2021.

BEGINNING AT A SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136" HEREAFTER REFERRED TO AS A "SET IPC" IN THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA, HAVING A KENTUCKY STATE PLANE VALUE N:3.611,219.8006 & E:5.271,419.6222, BEING A PART OF THE PARCEL CONVEYED TO SPENCER LOVELESS & GLENN E. LOVELESS AS RECORDED IN THE OFFICE OF THE CLERK OF PULASKI COUNTY, KENTUCKY IN DEED BOOK 770, PAGE 412 (TRACT 3), PARCEL ID: 086-0-0-42; THENCE LEAVING SAID LEASE AREA, S05°27'23"E 30.00'; THENCE S84°32'37"W 20.00'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 15.00', ARC LENGTH OF 23.56', THE CHORD OF WHICH BEARS S39°32'37"W 21.21'; THENCE S05°27'23"E 38.06'; THENCE S55°44'51"E 39.38' TO THE NORTH RIGHT OF WAY OF YANCEY ROAD; THENCE WITH SAID RIGHT OF WAY, ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 55.77', ARC LENGTH OF 17.67', THE CHORD OF WHICH BEARS S80°39'28"W 17.67'; THENCE S82°04'51"W 12.68'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 3465.13', ARC LENGTH OF 52.12', THE CHORD OF WHICH BEARS S82°30'42"W 52.12'; THENCE LEAVING SAID RIGHT OF WAY, N39°17'09"E 31.37'; THENCE N05°27'23"W 44.53'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 15.00', ARC LENGTH OF 23.56', THE CHORD OF WHICH BEARS N50°27'23"W 21.21'; THENCE S84°32'37"W 20.00'; THENCE N05°27'23"W 30.00' TO A SET "IPC" IN THE SOUTHWEST CORNER OF SAID LEASE AREA; THENCE WITH SAID LEASE AREA, N84°32'37"E 100.00' TO THE POINT OF BEGINNING CONTAINING 6,163.921 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 30, 2022.

LAND SURVEYOR'S CERTIFICATE

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201.18-150.

Max Patterson
MARK PATTERSON, PLS #3136

10/12/2022

DATE

REPORT OF TITLE

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC, AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESRIPTIVE EASEMENTS, ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. INFORMATION REGARDING THESE MATTERS WERE GAINED FROM FIDELITY NATIONAL TITLE INSURANCE COMPANY, COMMITMENT NO. C20066314LK7, ORDER NO. 37618985 FOR THE BENEFIT OF: COOTS, HENKE & WHEELER, P.C., DATED SEPTEMBER 02, 2020 AND UPDATED ON JULY 27, 2022. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID COMMITMENT AND THE NUMBERS IN THE COMMENTS CORRESPOND TO THE NUMBERING SYSTEM IN SAID POLICY.

- 1. LIEN OF DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I REQUIREMENTS ARE MET. (POWER OF DESIGN GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
- 2. LIEN OF CITY, COUNTY AND OTHER REAL ESTATE TAXES FOR THE PERIOD 2020 AND ALL SUBSEQUENT YEARS, NOT YET DUE AND PAYABLE. (POWER OF DESIGN GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
- 3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE, OR EASEMENTS OR CLAIMS OF EASEMENTS NOT SHOWN BY THE PUBLIC RECORDS THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND. (POWER OF DESIGN GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY, THEREFORE WE DID NOT EXAMINE OR ADDRESS THIS ITEM.)
- 4. RIGHTS OF TENANTS IN POSSESSION, AS TENANTS ONLY, UNDER UNRECORDED UNEXPIRED LEASES. (POWER OF DESIGN GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
- 5. ANY LIEN OR RIGHT TO A LIEN, FOR SERVICES, LABOR, OR MATERIAL HERETOFORE OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORDS. (POWER OF DESIGN GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
- 6. ALL COAL, OIL, GAS AND OTHER MINERAL RIGHTS HERETOFORE CONVEYED, EXPECTED, RESERVED OR LEASED, TOGETHER WITH ALL INCIDENTAL RIGHTS THERETO. (POWER OF DESIGN GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
- 7. RIGHT-OF-WAY EASEMENT GRANTED NELSON VALLEY WATER ASSOCIATION, INC., OF RECORD IN DEED BOOK 357, PAGE 649, IN THE OFFICE AFORESAID. (EASEMENT AS RECORDED IN DEED BOOK 357, PAGE 649, CAN NOT BE PLOTTED, THEREFORE THE EFFECT, IF ANY, TO THE SUBJECT PARCEL, PROPOSED LEASE AREA AND THE ACCESS AND UTILITY EASEMENT, CANNOT BE DETERMINED.)

PARENT PARCEL - DEED BOOK 770, PAGE 412 - PARCEL ID: 086-0-0-42

TRACT I

A CERTAIN TRACT OF LAND LYING IN THE COUNTY OF PULASKI, STATE OF KENTUCKY, ON THE WATERS OF INDIAN CREEK AND BOUNDED AS FOLLOWS, TO WIT:

BEGINNING AT A STONE BY THE SIDE OF THE ROAD; THENCE SOUTH 7° EAST 25 1/4 POLES TO A STONE; THENCE SOUTH 71° EAST 36 POLES TO A STONE IN A DRAIN; THENCE DOWN SAID DRAIN SOUTH 38° EAST 15 1/2 POLES TO A STONE IN SAID DRAIN; THENCE SOUTH 48° EAST 9 1/2 POLES TO A STONE; THENCE SOUTH 4° EAST 29 POLES TO A STONE, BETWEEN A BRANCH AND A CLIFF; THENCE SOUTH 20° WEST 16 POLES AND 3 FEET TO A STONE; THENCE SOUTH 31° WEST 21 POLES 16 FEET TO A STONE; THENCE SOUTH 28° WEST 10 POLES 14 FEET TO A STONE; THENCE SOUTH 31° WEST WITH A CLIFF 14 1/2 POLES TO A STONE AT THE FOOT OF THE CLIFF; THENCE ACROSS INDIAN CREEK SOUTH 10 1/4° EAST 29 POLES AND 3 FEET TO A STONE AT THE MOUTH OF THE DRY BRANCH; THENCE UP SAID CREEK SOUTH 55° WEST 21 POLES 10 FEET; NORTH 42° 9' WEST 56 POLES; SOUTH 69° WEST 21 POLES TO A STONE ON THE SOUTH BANK OF INDIAN CREEK; THENCE NORTH 9° WEST 126 POLES TO A STONE BY THE ROAD; THENCE NORTH 55° EAST 49 POLES TO THE BEGINNING, CONTAINING 77 1/3 ACRES, MORE OR LESS.

TRACT II

A CERTAIN TRACT OR BOUNDARY OF LAND LOCATED AND BEING IN PULASKI COUNTY, KENTUCKY, ON THE WATERS OF BUCK CREEK AND BOUNDED AND DESCRIBED AS FOLLOWS, TO WIT:

BEGINNING AT A STONE ON THE NORTH SIDE OF TEXAS RURAL HIGHWAY NO. 34, THENCE SOUTH 10° EAST 112 POLES TO A STONE ON THE CLIFF INDIAN CREEK, CORNER OF WILLIAM YANCEY AND GEORGE DYE; THENCE SOUTH 28° WEST 18 POLES TO A SPANISH OAK ON THE BLUFF OF INDIAN CREEK, CORNER OF SAID TO YANCEY AND DYE; THENCE SOUTH 47° WEST 22 POLES TO A STONE WHERE STOOD AN ASH AND SUGAR TREE AT A BRANCH; THENCE UP SAID BRANCH WITH MEANDERS OF SAME NORTH 40° WEST 90 POLES TO A STONE, WILLIAM BARRON'S CORNER; THENCE SOUTH 60° WEST 32 POLES TO A STONE, BARRON, YORK AND DYE'S CORNER; THENCE NORTHWEST 31 POLES TO A POST OAK; THENCE NORTH 60° WEST 40 POLES TO A STONE ON THE SOUTH SIDE OF RURAL HIGHWAY 34; THENCE NORTH 63 1/2° EAST 68 POLES AND 18 LINKS TO A STONE AT SIDE OF ROAD; THENCE NORTH 88° EAST 50 POLES TO A STONE; THENCE NORTH 80 1/2° EAST 38 POLES AND 16 LINKS TO A STONE; THENCE NORTH 54 1/2° EAST 5 POLES AND 21 LINKS TO THE BEGINNING.

TRACT III

A CERTAIN TRACT OR PARCEL OF LAND LYING AND BEING IN THE COUNTY OF PULASKI, AND STATE OF KENTUCKY, ON THE WATERS OF BUCK CREEK, AND BOUNDED AS FOLLOWS, TO WIT:

BEGINNING AT A STONE ON THE SOUTH SIDE OF TEXAS R.H. ROAD NO. 34, RUNNING NORTH 45° WEST 70 POLES TO A POST OAK AND TWO HICKORIES, PLEASANT GEORGE'S CORNER; THENCE WITH HIS LINE NORTH 73 1/2° EAST 188 POLES TO A HICKORY; THENCE SOUTH 13° EAST 60 POLES TO A STONE ON THE NORTH SIDE OF R.H. NO.34; THENCE SOUTH 54 1/2° WEST 5 POLES AND 21 LINKS TO A STONE ON THE NORTH SIDE OF SAID ROAD; THENCE SOUTH 80 1/2° WEST 38 POLES AND 16 LINKS TO A STONE ON THE NORTH SIDE OF SAID ROAD; THENCE SOUTH 88° WEST 50 POLES TO A STONE ON THE SOUTH SIDE OF SAID R.H. ROAD NO.34; THENCE 63 1/2° WEST POLES AND 18 LINKS TO THE BEGINNING, CONTAINING 70 ACRES, MORE OR LESS.

BEING THE SAME PROPERTY ACQUIRED BY SPENCER LOVELESS AND GLENN E. LOVELESS, BY DEED OF CONVEYANCE DATED AUGUST 3, 2005, OF RECORD IN DEED BOOK 770, PAGE 412, IN THE OFFICE OF THE CLERK OF PULASKI COUNTY, KENTUCKY.



PREPARED FOR:



REVISIONS

REV.	DATE	DESCRIPTION
A	9.7.22	PRELIMINARY ISSUE
B	9.15.22	VZW ENTITY NAME
0	10.12.22	ISSUED AS FINAL

SITE INFORMATION:

L V E T N A
YANCEY ROAD
EUBANK, KY 42567
PULASKI COUNTY

TAX PARCEL NUMBER:
086-0-0-42

PROPERTY OWNER:

SPENCER LOVELESS &
GLENN E. LOVELESS
2530 TEXAS SCHOOL ROAD
EUBANK, KY 42567

SOURCE OF TITLE:

TRACT 3 OF
DEED BOOK 770, PAGE 412

POD NUMBER: 22-135987
DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 8.30.22
PLAT DATE: 9.2.22

SHEET TITLE:

SITE SURVEY

THIS DOES NOT REPRESENT A
BOUNDARY SURVEY OF THE
PARENT PARCEL

SHEET NUMBER: (2 pages)

B-1.1

A1 PARCEL ID: 086-0-0-42
LOVELESS SPENCER & GLENN E
2530 TEXAS SCHOOL RD
EUBANK KY 42567

B1 PARCEL ID: 072-0-0-83
BRAY LESLIE
233 LESLIE BRAY RD
EUBANK, KY 42567

C1 PARCEL ID: 072-0-0-82.1
THURMAN DWIGHT & JO CAROL
460 BOB KELLER RD
EUBANK, KY 42567

D1 PARCEL ID: 071-0-0-15
ANDERSON JONATHAN & MARY
650 TEXAS SCHOOL RD
EUBANK, KY 42567

E1 PARCEL ID: 071-0-0-13
ANDERSON ALLEN & PATRICIA
260 HENDERSON RD
EUBANK, KY 42567

F1 PARCEL ID: 071-0-0-12
PRICE ALEX S & AMANDA K
290 HENDERSON RD
EUBANK, KY 42567

G1 PARCEL ID: 071-0-0-14
ALEXANDER WILLIAM E & LOIS
4680 E HWY 452
EUBANK, KY 42567

NOTE:
PARCEL NUMBERS ARE OF RECORD IN
THE PULASKI COUNTY PROPERTY
VALUATION ADMINISTRATOR OFFICE.

H1 PARCEL ID: 071-0-0-16
HENDERSON DALE & SHIRLEY
701 HENDERSON RD
EUBANK, KY 42567

I1 PARCEL ID: 071-0-0-09
HENDERSON MICHAEL
716 HENDERSON RD
EUBANK, KY 42567

J1 PARCEL ID: 086-0-0-45
MOUNCE LOUIE C & BETTY ANN
165 SAVANNAH TRAIL
EUBANK, KY 42567

K1 PARCEL ID: 086-0-0-43
ROARK EMILY
450 YANCEY RD
EUBANK, KY 42567

L1 PARCEL ID: 086-0-0-43.1
ROARK EMILY N & DANIEL W
450 YANCEY RD
EUBANK, KY 42567

M1 PARCEL ID: 086-0-0-41
SKAGGS EVERETT & NELL
10311 HWY 39
SOMERSET KY 42503

N1 PARCEL ID: 087-0-0-31
WITT STANLEY & JO ANN
4870 E HWY 452
EUBANK KY 42567

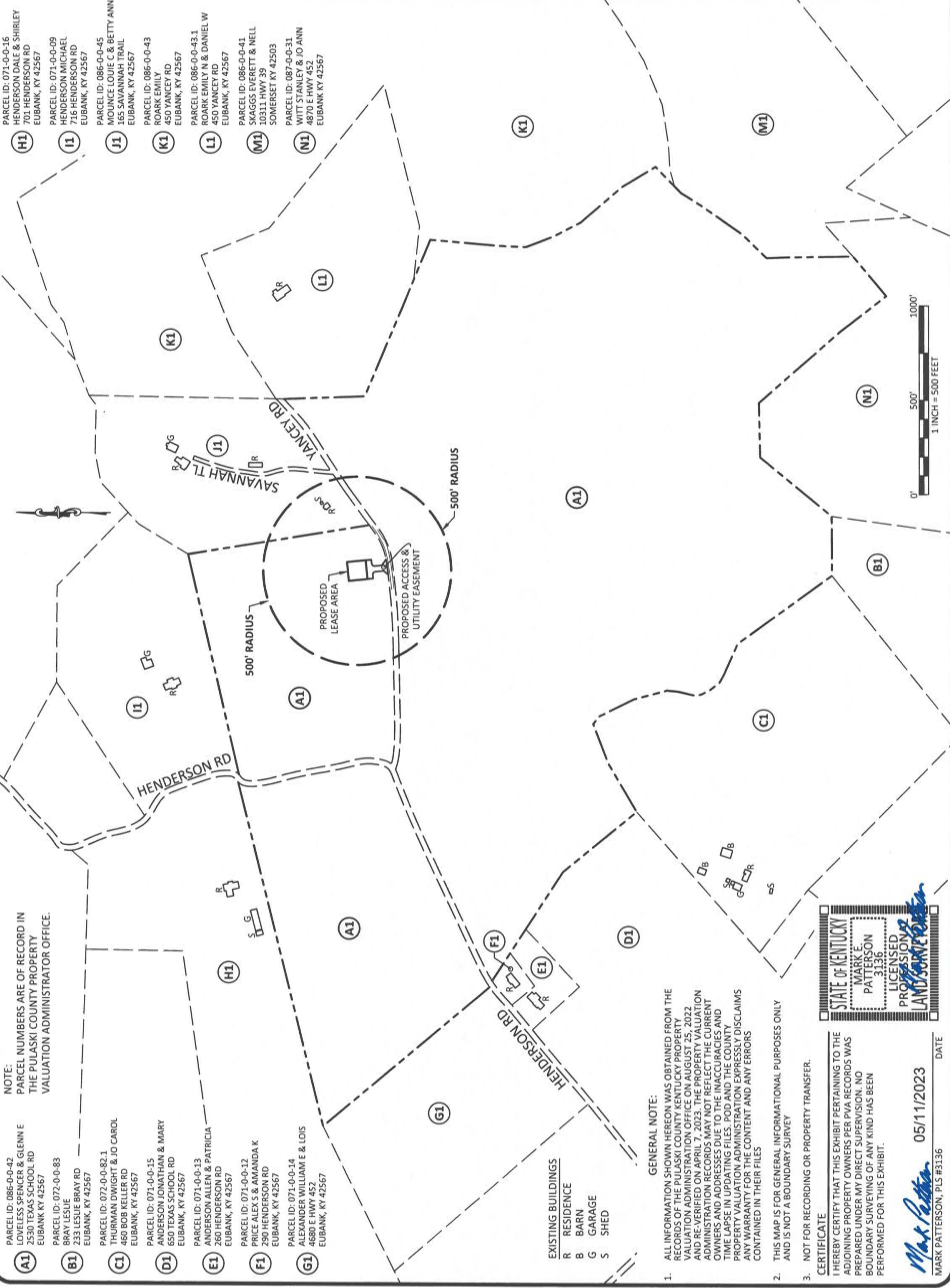
EXISTING BUILDINGS
R RESIDENCE
B BARN
G GARAGE
S SHED

- GENERAL NOTE:**
- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE PULASKI COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON AUGUST 25, 2022 AND RE-VERIFIED ON APRIL 7, 2023. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES.
 - THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
 - NOT FOR RECORDING OR PROPERTY TRANSFER.



Mark Patterson
MARK PATTERSON, PLS #3136
DATE 05/11/2023

CERTIFICATE
I HEREBY CERTIFY THAT THIS EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS PER PVA RECORDS WAS PREPARED UNDER MY DIRECT SUPERVISION. NO BOUNDARY SURVEYING OF ANY KIND HAS BEEN PERFORMED FOR THIS EXHIBIT.



PREPARED BY:
POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
RURAL CELLULAR
D/B/A
Verizon

REVISIONS

REV	DATE	DESCRIPTION
A	4.7.23	ISSUED FOR REVIEW
0	5.11.23	ISSUED AS FINAL

SITE INFORMATION:
LV ETNA
YANCEY ROAD
EUBANK, KY 42567
PULASKI COUNTY

TAX PARCEL NUMBER:
086-0-0-42

PROPERTY OWNER:
SPENCER LOVELESS &
GLENN E. LOVELESS
2530 TEXAS SCHOOL ROAD
EUBANK, KY 42567

SOURCE OF TITLE:
TRACT 3 OF
DEED BOOK 770, PAGE 412

POD NUMBER: 22-134826
DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 8.25.22
PLAT DATE: 4.7.23

SHEET TITLE:
500' RADIUS AND
ABUTTERS MAP

SHEET NUMBER: (1 page)
B-2

REVISION LOG

REV *	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
0	5/12/2023	ALL SHEETS	ISSUED AS FINAL



05/12/2023



EN PERMIT: 3594

ZONING DRAWINGS

REV	DATE	DESCRIPTION
0	5.12.23	ISSUED AS FINAL

SITE INFORMATION:
LV ETNA
YANCEY ROAD
EUBANK, KY 42567
PULASKI COUNTY

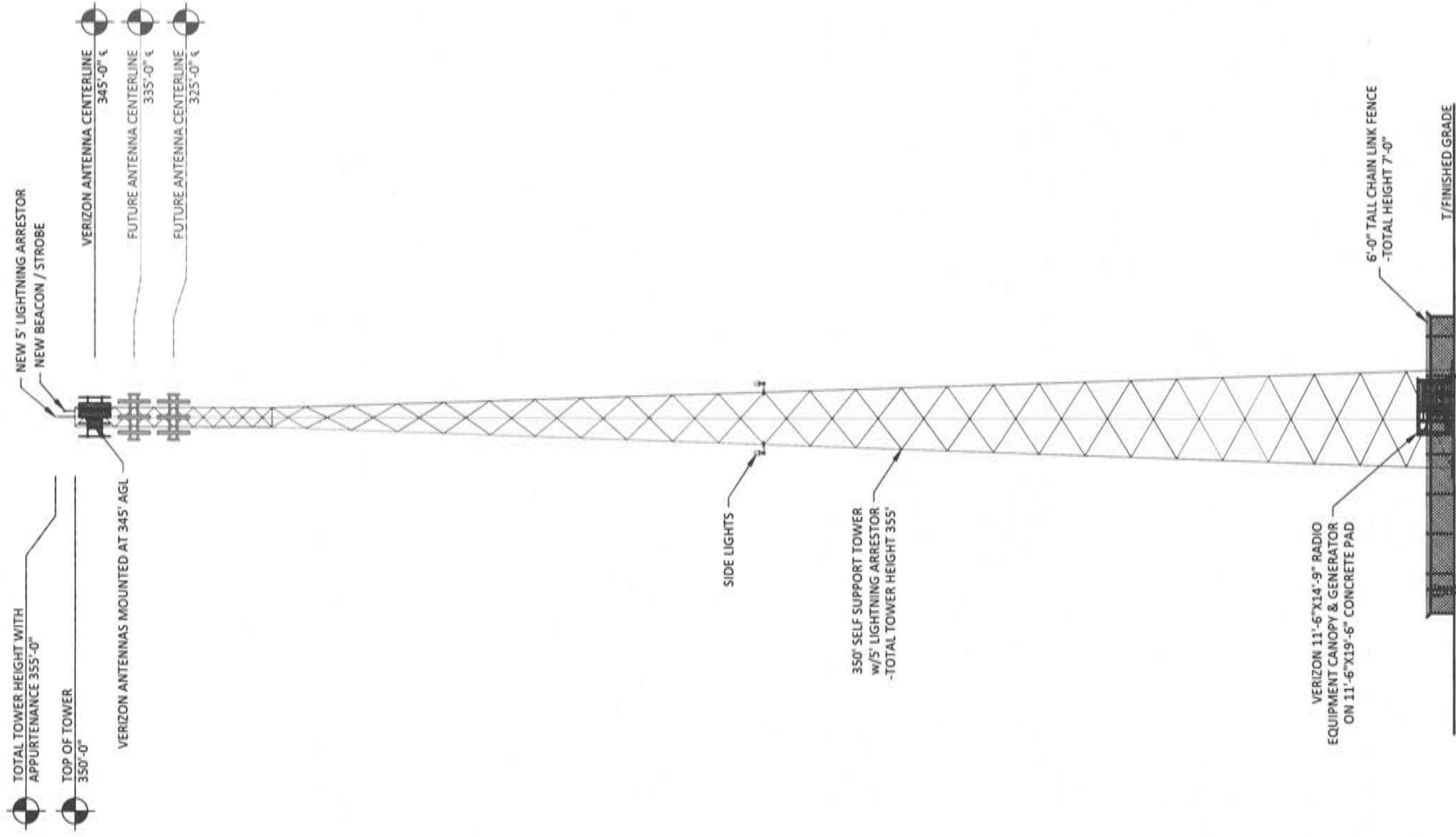
TOWERCO SITE NUMBER:
KY0106

POD NUMBER: 22-134832
DRAWN BY: POD
CHECKED BY: MEP
DATE: 04.06.23

SHEET TITLE:

REVISION LOG

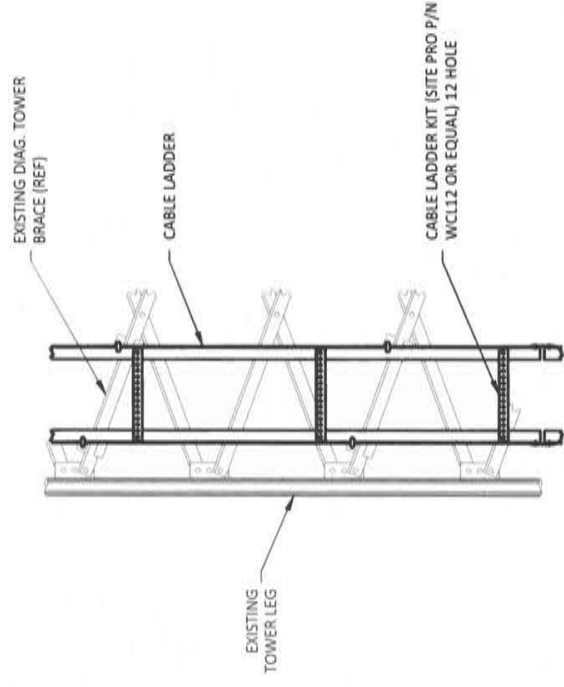
SHEET NUMBER:
R-1



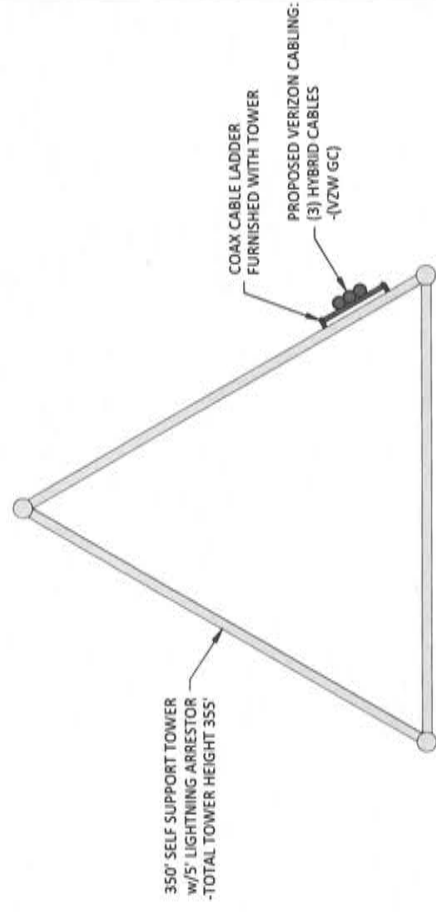
TOWER ELEVATION
SCALE: N.T.S.
1
TE-1

NOTE:

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY RURAL CELLULAR CORP d/b/a VERIZON (VZW GC)
2. ALL TOWER LIGHTING SHALL BE INSTALLED AS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION AND RECOMMENDED BY THE USFWS INTERIM GUIDELINES (2000) FOR LIGHTING OF TOWERS OVER 200' IN HEIGHT.



CABLE LADDER DETAIL
SCALE: N.T.S.
2
TE-1



COAX PLAN
SCALE: N.T.S.
N



5000 VALLEYSTONE DR.
CARY, NC 27519

05/12/2023



EN PERMIT: 3594

ZONING DRAWINGS

REV	DATE	DESCRIPTION
0	5.12.23	ISSUED AS FINAL

SITE INFORMATION:

LV ETNA

YANCEY ROAD
EUBANK, KY 42567
PULASKI COUNTY

TOWERCO SITE NUMBER:
KV0106

POD NUMBER: 22-134832

DRAWN BY: POD
CHECKED BY: MEP
DATE: 04.06.23

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER:
TE-1



05/12/2023



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
0	5.12.23	ISSUED AS FINAL

SITE INFORMATION:
LV ETNA
 YANCEY ROAD
 EUBANK, KY 42567
 PULASKI COUNTY

TOWERCO SITE NUMBER:
KY0106

POD NUMBER: 22-134832
 DRAWN BY: POD
 CHECKED BY: MEP
 DATE: 04.06.23

OVERALL SITE PLAN W/AERIAL OVERLAY

SHEET NUMBER:
C-1



LEGEND

	UTILITY POLE		GUY ANCHOR
	PROPOSED LEASE LINE		PROPOSED EASEMENT
	PROPOSED GRAVEL		PROPOSED FENCE
	EXISTING GRAVEL		EXISTING FENCE
	EXISTING OVERHEAD ELECTRIC & TELEPHONE		EXISTING PAVEMENT
	PROPERTY LINE		



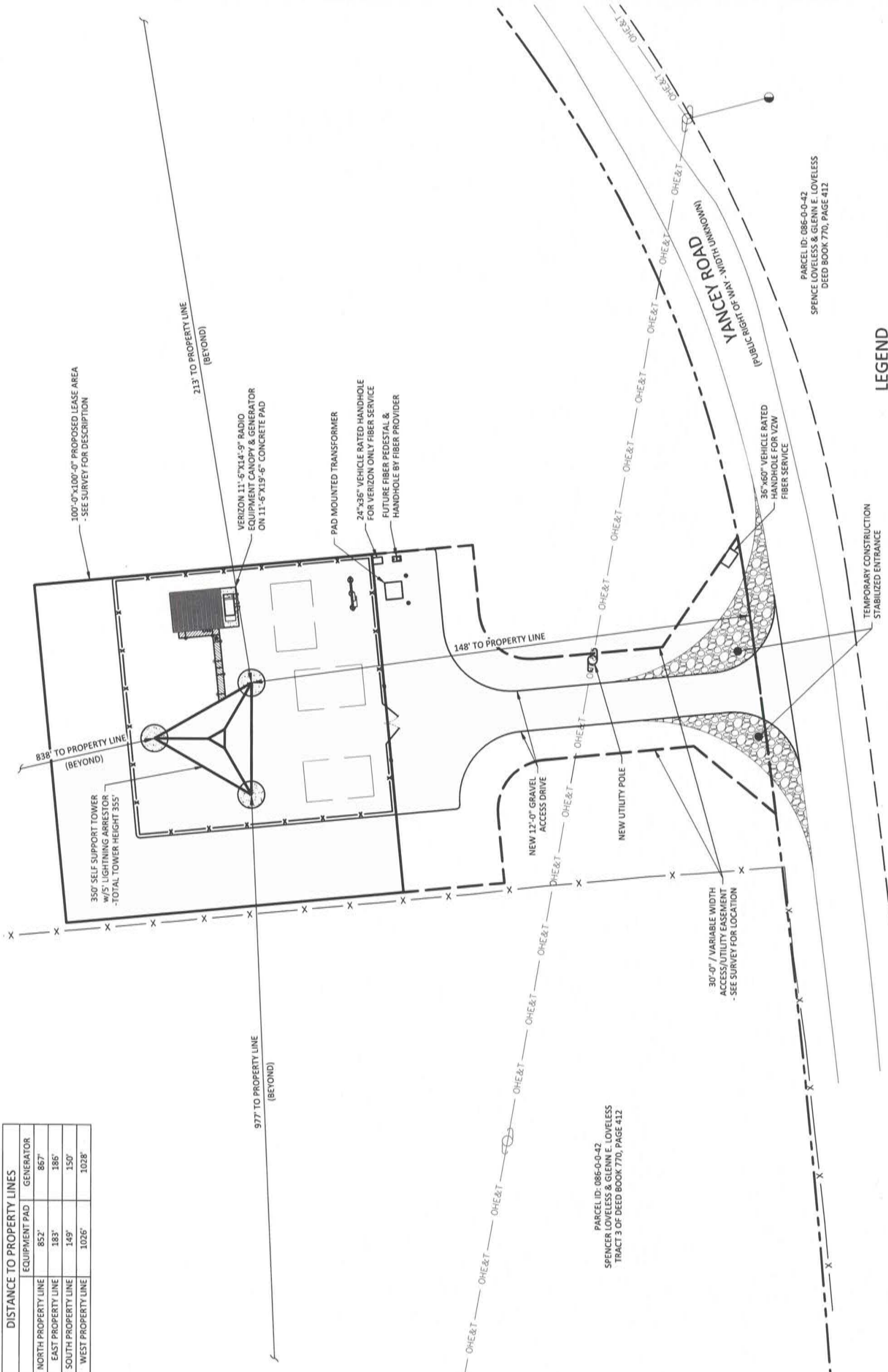
OVERALL SITE PLAN W/AERIAL OVERLAY

SCALE: 1" = 30'



Call Monday thru Friday - 9 am to 6 pm
1-800-752-6007
 PER KY REGULATIONS, THE USER SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND EASEMENTS WITHOUT NOTIFYING THE UNDERGROUND LOCATIONS SERVICE TWO (2) WORKING DAYS BEFORE CONSTRUCTION BEGINS.

DISTANCE TO PROPERTY LINES	
EQUIPMENT PAD	GENERATOR
NORTH PROPERTY LINE	867'
EAST PROPERTY LINE	186'
SOUTH PROPERTY LINE	150'
WEST PROPERTY LINE	1028'




OVERALL SITE PLAN W/DISTANCE TO PROPERTY LINES
SCALE: 1" = 30'



LEGEND

	UTILITY POLE		GUY ANCHOR
	PROPOSED LEASE LINE		PROPOSED EASEMENT
	PROPOSED GRAVEL		PROPOSED FENCE
	EXISTING GRAVEL		EXISTING FENCE
	EXISTING OVERHEAD ELECTRIC & TELEPHONE		EXISTING PAVEMENT
	PROPERTY LINE		

PARCEL ID: 086-0-0-42
SPENCE LOVELESS & GLENN E. LOVELESS
DEED BOOK 770, PAGE 412

PARCEL ID: 086-0-0-42
SPENCE LOVELESS & GLENN E. LOVELESS
DEED BOOK 770, PAGE 412

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

TowerCo
5000 VALLEYSTONE DR.
CARY, NC 27519

05/12/2023

EN PERMIT: 3594

ZONING DRAWINGS

REV	DATE	DESCRIPTION
0	5.12.23	ISSUED AS FINAL

SITE INFORMATION:
LV ETNA
YANCEY ROAD
EUBANK, KY 42567
PULASKI COUNTY

TOWERCO SITE NUMBER:
KY0106
POD NUMBER: 22-134832
DRAWN BY: POD
CHECKED BY: MEP
DATE: 04.06.23

SHEET TITLE:
OVERALL SITE PLAN W/DISTANCE TO PROPERTY LINES
SHEET NUMBER:
C-1A



11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252



5000 VALLEYSTONE DR.
CARY, NC 27519

05/12/2023



EN PERMIT: 3594

ZONING DRAWINGS

REV	DATE	DESCRIPTION
0	5.12.23	ISSUED AS FINAL

SITE INFORMATION:

LV ETNA

YANCEY ROAD
EUBANK, KY 42567
PULASKI COUNTY

TOWERCO SITE NUMBER:
KV0106

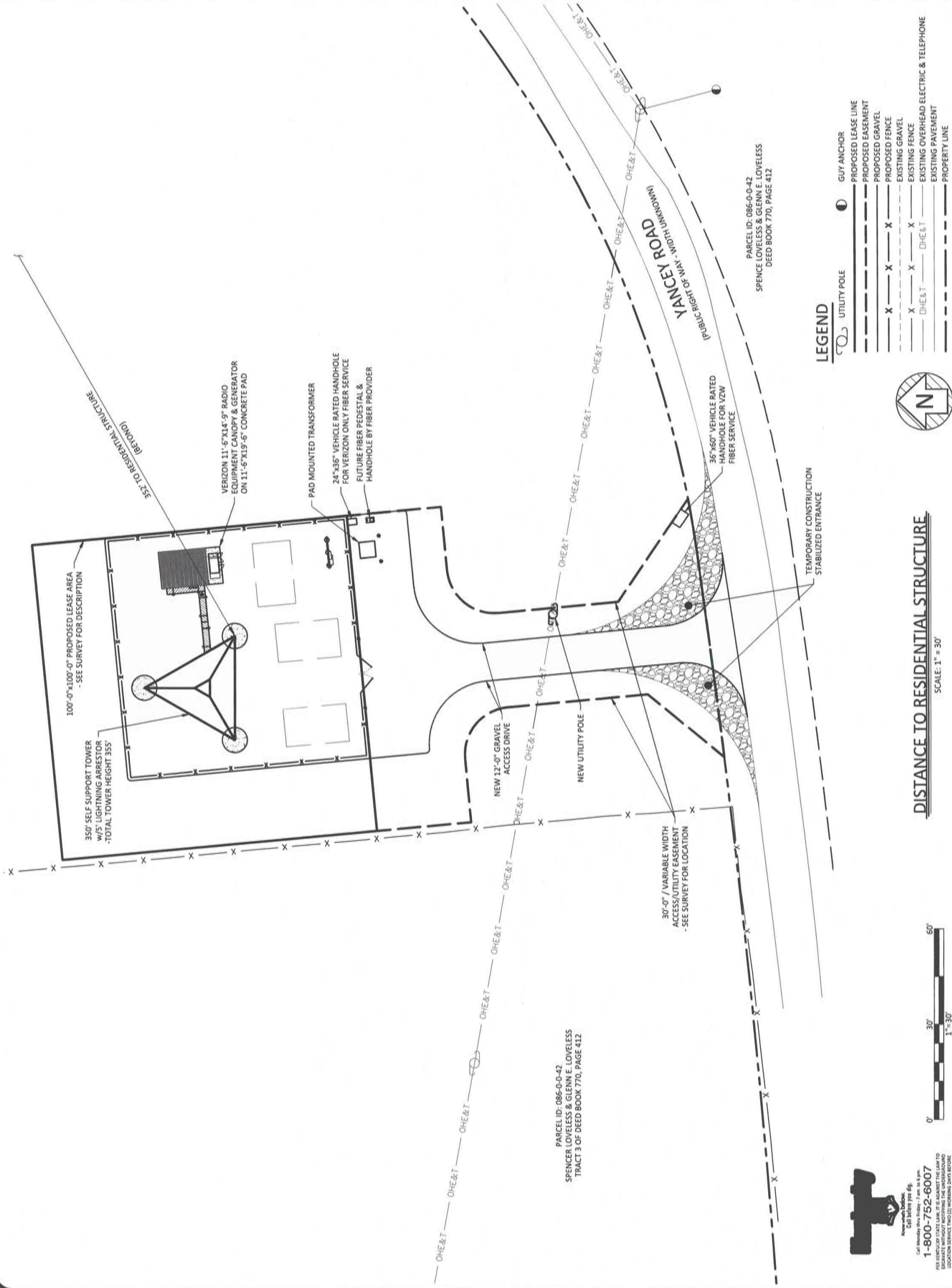
POD NUMBER: 22-134832

DRAWN BY: POD
CHECKED BY: MEP
DATE: 04.06.23

SHEET TITLE:

DISTANCE TO RESIDENTIAL STRUCTURE

SHEET NUMBER:
C-1B



LEGEND

- UTILITY POLE
- GUY ANCHOR
- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- PROPOSED FENCE
- EXISTING GRAVEL
- EXISTING FENCE
- EXISTING OVERHEAD ELECTRIC & TELEPHONE
- EXISTING PAVEMENT
- PROPERTY LINE



DISTANCE TO RESIDENTIAL STRUCTURE

SCALE: 1" = 30'



Call Monday thru Friday 7 am to 6 pm
1-800-752-6007
FOR MORE INFORMATION VISIT US AT TOWERCO.COM
LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



5000 VALLEYSTONE DR.
CARY, NC 27519

05/12/2023



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
0	5.12.23	ISSUED AS FINAL

SITE INFORMATION:

LV ETNA

YANCEY ROAD
EUBANK, KY 42567
PULASKI COUNTY

TOWERCO SITE NUMBER:
KY0106

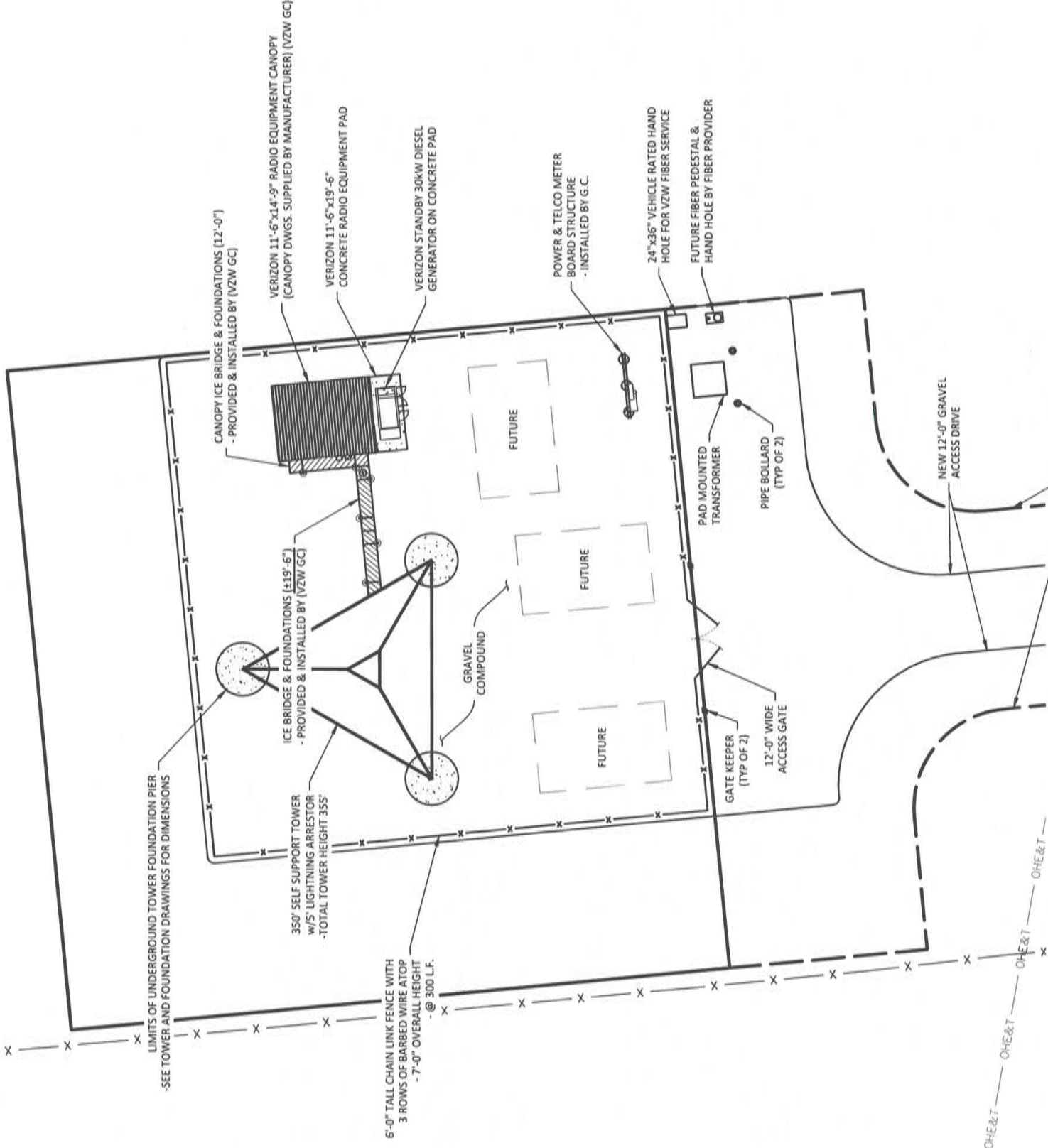
POD NUMBER: 22-134832

DRAWN BY: POD
CHECKED BY: MEP
DATE: 04.06.23

SHEET TITLE:

DETAILED SITE PLAN

SHEET NUMBER:
C-3



DETAILED SITE PLAN

SCALE: 1" = 20'

*NOTE:
GENERAL CONTRACTOR IS TO ENSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA WITHOUT APPROVAL FROM VERIZON CONSTRUCTION MANAGER



Call us today!
1-800-752-6007
SEE REVERSE SIDE DRAWING FOR THE LIMIT TO LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



05/12/2023



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
0	5.12.23	ISSUED AS FINAL

SITE INFORMATION:

LV ETNA

YANCEY ROAD
EUBANK, KY 42567
PULASKI COUNTY

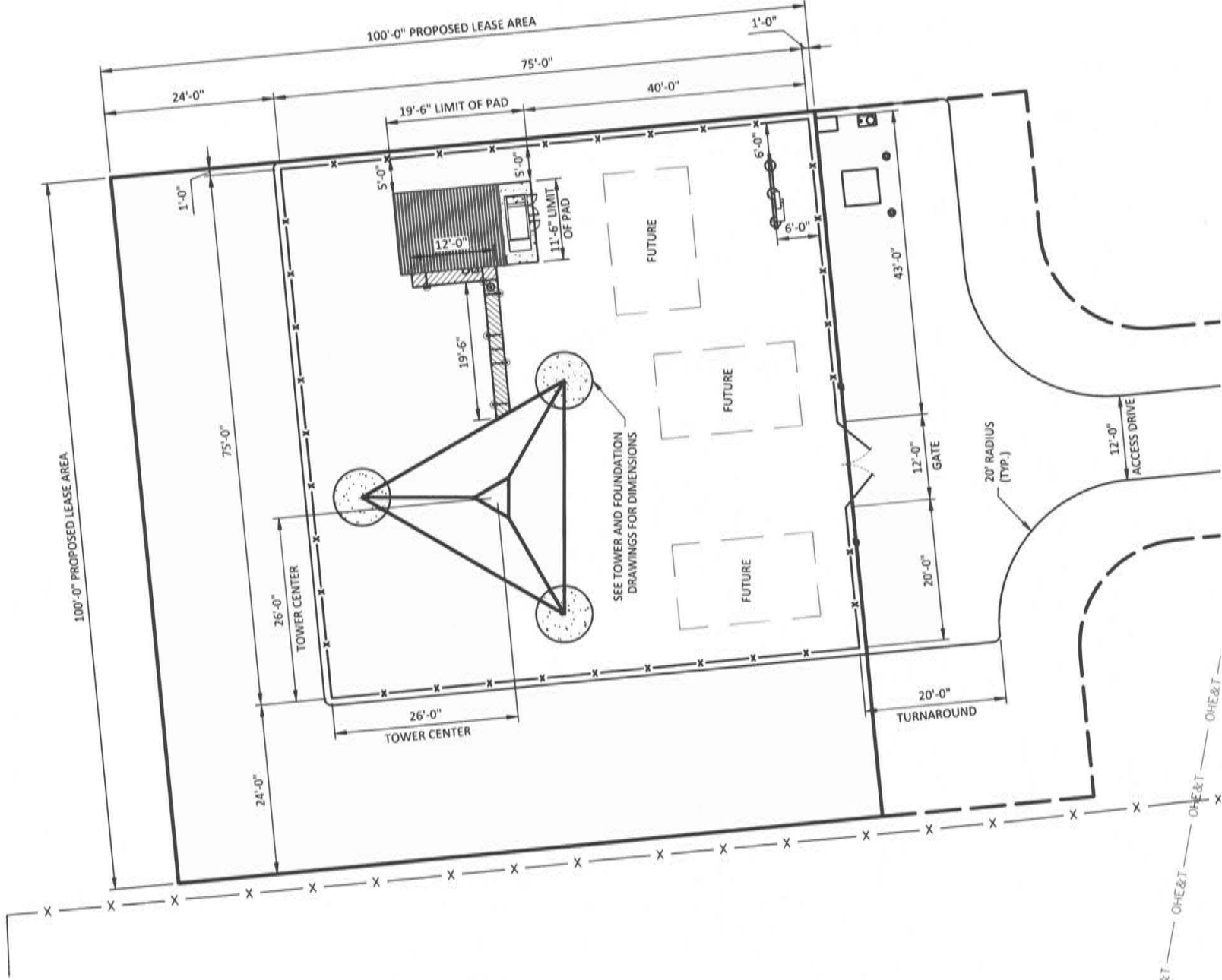
TOWERCO SITE NUMBER:
KY0106

POD NUMBER: 22-134832
DRAWN BY: POD
CHECKED BY: MEP
DATE: 04.06.23

SHEET TITLE:

DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4



LEGEND

- UTILITY POLE
- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- PROPOSED FENCE
- EXISTING FENCE
- OHE&T



DIMENSIONED SITE PLAN

SCALE: 1" = 20'

*NOTE:
GENERAL CONTRACTOR IS TO ENSURE THERE IS NO
DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE
OF THE STAKED LEASE AREA WITHOUT APPROVAL
FROM VERIZON CONSTRUCTION MANAGER





1 Fairholm Avenue
Peoria, IL 61603 USA
Phone: (309)-566-3000
Fax: (309)-566-3079

DATE: JANUARY 17, 2024

PURCHASER: TOWERCO LLC

PROJECT: 350FT RTL SELF SUPPORT TOWER
KY0106 LV ETNA, KY

FILE NUMBER:245169

I CERTIFY THAT THE ATTACHED DRAWINGS WERE PREPARED UNDER MY SUPERVISION IN ACCORDANCE WITH THE DESIGN AND LOADING CRITERIA SPECIFIED BY THE PURCHASER AND THAT I AM A REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF KENTUCKY.

Allen Schneider

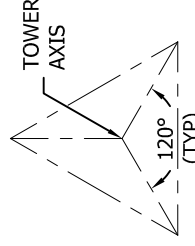
01/17/2024



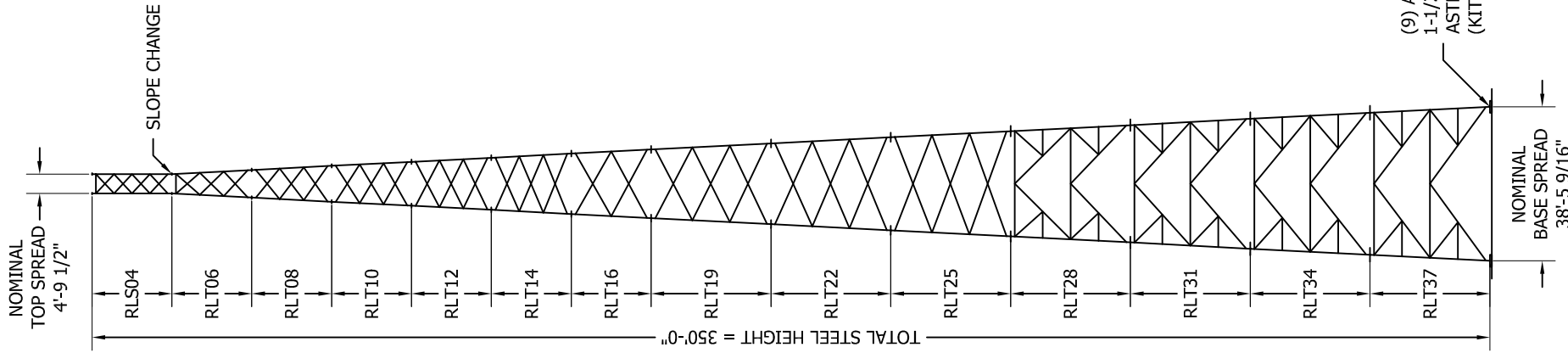
GENERAL NOTES

- ROHN PRODUCTS, LLC TOWER DESIGNS CONFORM TO ANSI/TIA-222-G UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
- THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-G AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
- ANTENNAS AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
- STEP BOLTS WITH SAFETY CLIMB SYSTEM ARE PROVIDED AS A CLIMBING FACILITY FOR THE INSTALLATION OF THE STRUCTURE.
- TOWER MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE TOWER.
- WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-G, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
- THE MINIMUM YIELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE 50 KSI.
- FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
- STRUCTURAL BOLTS SHALL CONFORM TO GRADE A325 PER ASTM F3125, EXCEPT WHERE NOTED.
- A NUT LOCKING DEVICE IS PROVIDED FOR ALL TOWER BOLTS.
- STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH ANSI/TIA-222-G.
- ALL HIGH STRENGTH BOLTS, UNLESS OTHERWISE NOTED FOR DOUBLE ANGLE MEMBERS, ARE TO BE TIGHTENED TO A "SNUG TIGHT" CONDITION AS DEFINED IN THE RCSC "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH-STRENGTH BOLTS". NO OTHER MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED.
- PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
- TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
- DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-G.
- DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
- DESIGN ASSUMES ALL ANTENNAS ARE MOUNTED SYMMETRICALLY TO MINIMIZE TORQUE, IF APPLICABLE.
- FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.

MAXIMUM FACTORED REACTIONS	
COMPRESSION PER LEG =	783.3 KIPS
TENSION PER LEG =	652.0 KIPS
SHEAR PER LEG =	73.3 KIPS
TOTAL SHEAR =	122.2 KIPS
TOTAL O.T.M =	24,296.1 FT-KIPS



TOWER CONFIGURATION
N.T.S.



(9) ANCHOR BOLTS (27 TOTAL)
1-1/2" DIA. X 74" LONG
ASTM F1554 Gr. 105
(KIT P/N: 27K3846RTFST)

TOWER DESIGN LOADING

DESIGN WIND LOAD PER ANSI/TIA-222-G USING THE FOLLOWING DESIGN CRITERIA:
 ASCE 7-10 ULTIMATE WIND SPEED (NO ICE): 115 MPH
 BASIC WIND SPEED (W/ICE): 30 MPH PER ASCE 7-10
 DESIGN ICE THICKNESS: 0.75" PER ASCE 7-10
 EXPOSURE CATEGORY: C
 STRUCTURE CLASS: II
 TOPOGRAPHIC CATEGORY: 1
 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION: Ss: 0.208, Si: 0.095, SITE CLASS: C

THIS STRUCTURE HAS BEEN DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT)	ANTENNA LOADING	LINE SIZE (NOM)
TOP	BEACON & LIGHTNING ROD	(1) 0-3/4" CONDUIT
345	42,000 SQ-IN + MOUNTS [337 SQFT] MAX EPA	(12) 1-5/8"
333	20,000 SQ-IN + MOUNTS [184 SQFT] MAX EPA	(12) 1-5/8"
323	20,000 SQ-IN + MOUNTS [184 SQFT] MAX EPA	(12) 1-5/8"

SECTION MAIN MEMBER SCHEDULE			
SECTION	LEGS	DIAGONALS	HORIZONTALS
RLS04	PIPE 3.500x0.216	L1 3/4x1 3/4x3/16 (4)	L1 3/4x1 3/4x3/16 (1)
RLT06	PIPE 4.500x0.337	L2x2x1/4 (3)	L1 3/4x1 3/4x3/16 (1)
RLT08	PIPE 5.563x0.375	L2x2x1/4 (3)	N/A
RLT10	PIPE 6.625x0.340	L2 1/2x2 1/2x3/16 (3)	N/A
RLT12	PIPE 6.625x0.432	L2 1/2x2 1/2x1/4 (3)	N/A
RLT14	PIPE 6.625x0.432	L3x3x3/16 (3)	N/A
RLT16	PIPE 8.625x0.375	L3x3x1/4 (2)	N/A
RLT19	PIPE 8.625x0.500	L3 1/2x3 1/2x1/4 (3)	N/A
RLT22	PIPE 8.625x0.500	L4x4x1/4 (3)	N/A
RLT25	PIPE 10.750x0.500	L4x4x1/4 (3)	N/A
RLT28	PIPE 10.750x0.500	2L3 1/2x3 1/2x1/4 (2)	L4x4x1/4 (2)
RLT31	PIPE 10.750x0.500	2L3 1/2x3 1/2x1/4 (2)	L4x4x3/8 (2)
RLT34	PIPE 12.750x0.500	2L3 1/2x3 1/2x1/4 (2)	2L3 1/2x3 1/2x1/4 (2)
RLT37	PIPE 12.750x0.500	2L4x4x1/4 (2)	2L3 1/2x3 1/2x1/4 (2)

NOTE:
 SECTION NUMBERS ARE FOR REFERENCE ONLY.
 FOR NOMINAL FACE WIDTH DIMENSIONS, REFER TO THE STRESS ANALYSIS.
 THE NUMBERS SHOWN IN PARENTHESES INDICATE THE NUMBER OF BAYS FROM TOP TO BOTTOM.

FILE NO.

245169

REVISIONS			
REV.	DESCRIPTION	DWN	CHK
1	REVISED SEISMIC SITE CLASS	AS	AS

DATE: 01/17/2024



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TOWERCO LLC
 DESIGN PROFILE
 350 FT RTL TOWER
 KY0106 LV ETNA, KY

DWN:	AS	CHK'D:	SY	DATE:	01/15/2024
ENGR:	AS	SHEET #:	1 OF 1		
PRJ. ENGR:	AS	PRJ. MANGR:			

DRAWING NO:

245169-01-D1

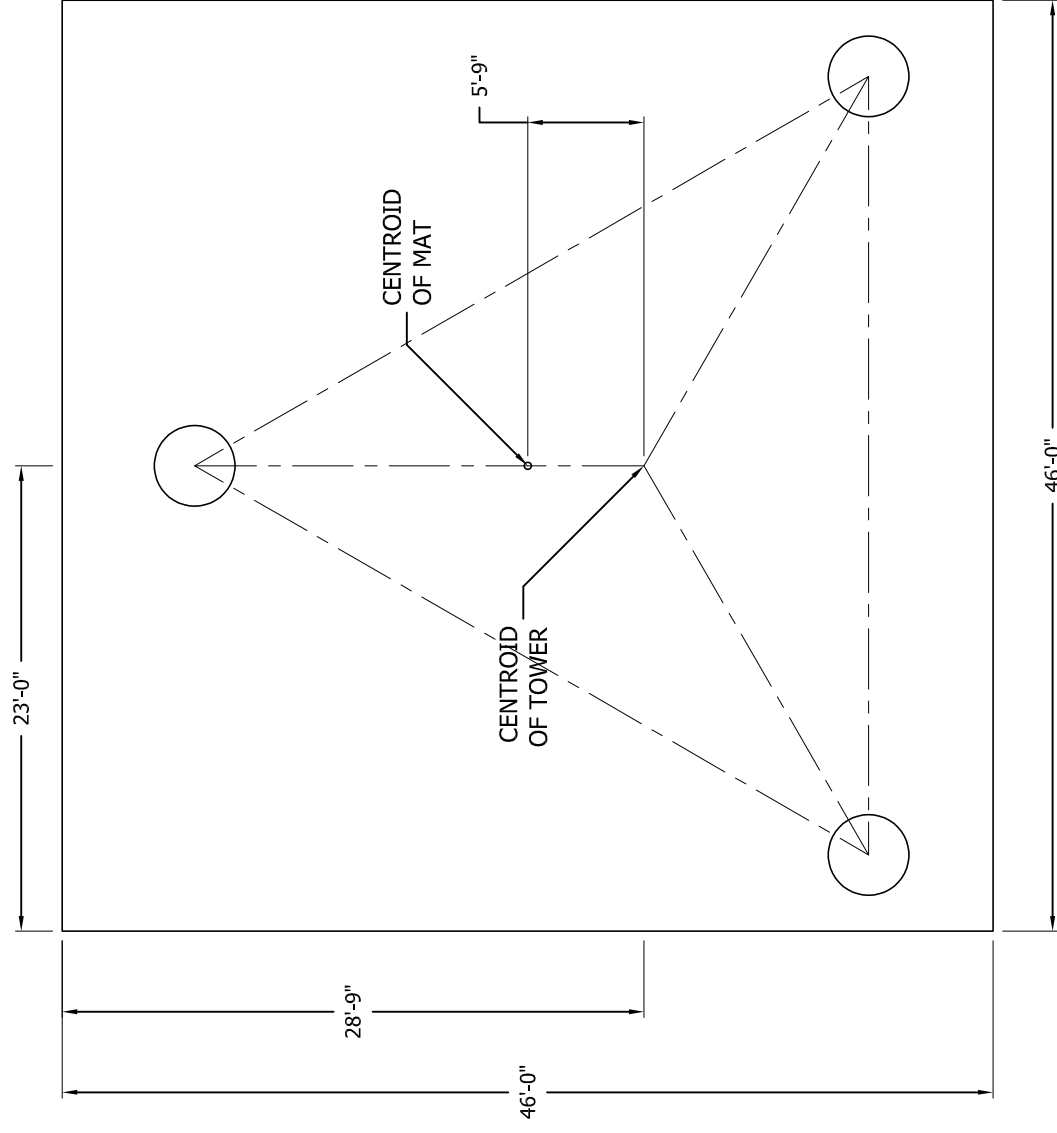
REV:

1

REVISIONS			
REV.	DESCRIPTION	DWN	CHK

GENERAL NOTES

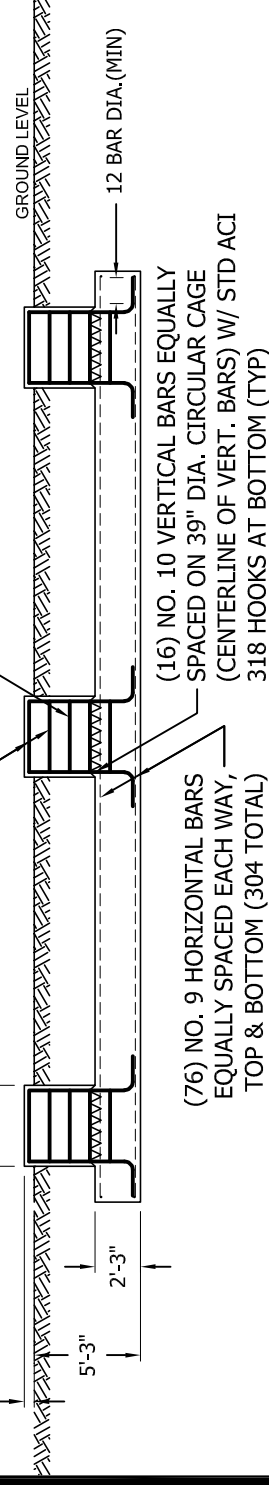
- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
 - ULTIMATE SOIL BEARING PRESSURE AT 5.25 FT DEPTH = 7,000 PSF.
 - GROUND WATER TABLE IS AT OR BELOW FOUNDATION DEPTH.
 - MAXIMUM FROST PENETRATION DEPTH LESS THAN FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH THE PROJECT CONSTRUCTION DOCUMENTS, LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 3/4 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING SHALL BE UTILIZED TO PREVENT HONEYCOMBS OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH MINIMUM COVER ON REINFORCEMENT.
- CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES NOR BE LESS THAN 2 INCHES.
- FOUNDATION DESIGN ASSUMES STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D1557. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 110 POUNDS PER CUBIC FOOT.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. **22-134830** DATED **6/9/2023** BY **POWER OF DESIGN GROUP, LLC**.
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- ALL CONSTRUCTION AND SAFETY EQUIPMENT AND TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTION SHALL BE DETERMINED, FURNISHED AND INSTALLED BY THE CONTRACTOR BASED ON THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY COMPETENT, QUALIFIED AND TRAINED PERSONNEL.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION AND ANCHOR TOLERANCES SEE ANCHOR ROD LAYOUT DRAWING.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- CONCRETE PREFERABLY SHALL BE PLACED AGAINST UNDISTURBED SOIL. WHEN FORMS ARE NECESSARY, THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
- CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH. FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" MINIMUM.



PLAN VIEW

- (2) NO. 4 CIRCULAR STIRRUPS ENCLOSING VERTICAL BARS @ 2-1/2" C-C W/ 180 DEG. STAGGERED 6" MIN LAPS TERMINATED AT EACH END WITH A STD. ACI 318 HOOK ENGAGING A VERTICAL BAR WITH 2" COVER (TYP).

- NO. 4 CIRCULAR STIRRUPS ENCLOSING VERTICAL BARS WITH 24" LAPS STAGGERED 180 DEG, ON 6" CENTERS (TYP)



ELEVATION VIEW

- (76) NO. 9 HORIZONTAL BARS EQUALLY SPACED EACH WAY, TOP & BOTTOM (304 TOTAL)
- (16) NO. 10 VERTICAL BARS EQUALLY SPACED ON 39" DIA. CIRCULAR CAGE (CENTERLINE OF VERT. BARS) W/ STD ACI 318 HOOKS AT BOTTOM (TYP)

FACTORED REACTIONS

Maximum O.T.M =	24,296.1 FT-K
Total Tower Wt =	134.5 KIPS
Total Shear =	122.2 KIPS
Max. Shear/Leg =	73.3 KIPS
Max. Ten./Leg =	652.0 KIPS
Max. Comp./Leg =	783.3 KIPS

CONCRETE VOLUME

ROUND PIERS	4.9 CU.YDS
PAD	176.3 CU.YDS
TOTAL	181.2 CU.YDS



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TOWERCO LLC
MAT W/RAISED PIERS
FOUNDATION DESIGN
KY0106 LV ETNA, KY

DWN:	AS	CHK'D:	SY	DATE:	01/17/2024
ENGR:	AS	SHEET #:	1 OF 1		
PRJ. ENGR:	AS	PRJ. MANGR:			

DRAWING NO:

245169-01-F1

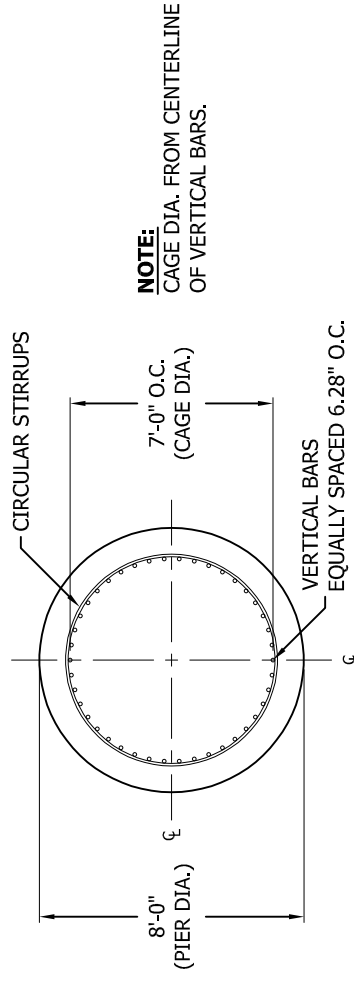
REV:

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REVISIONS			
REV.	DESCRIPTION	DWN	CHK
APP			

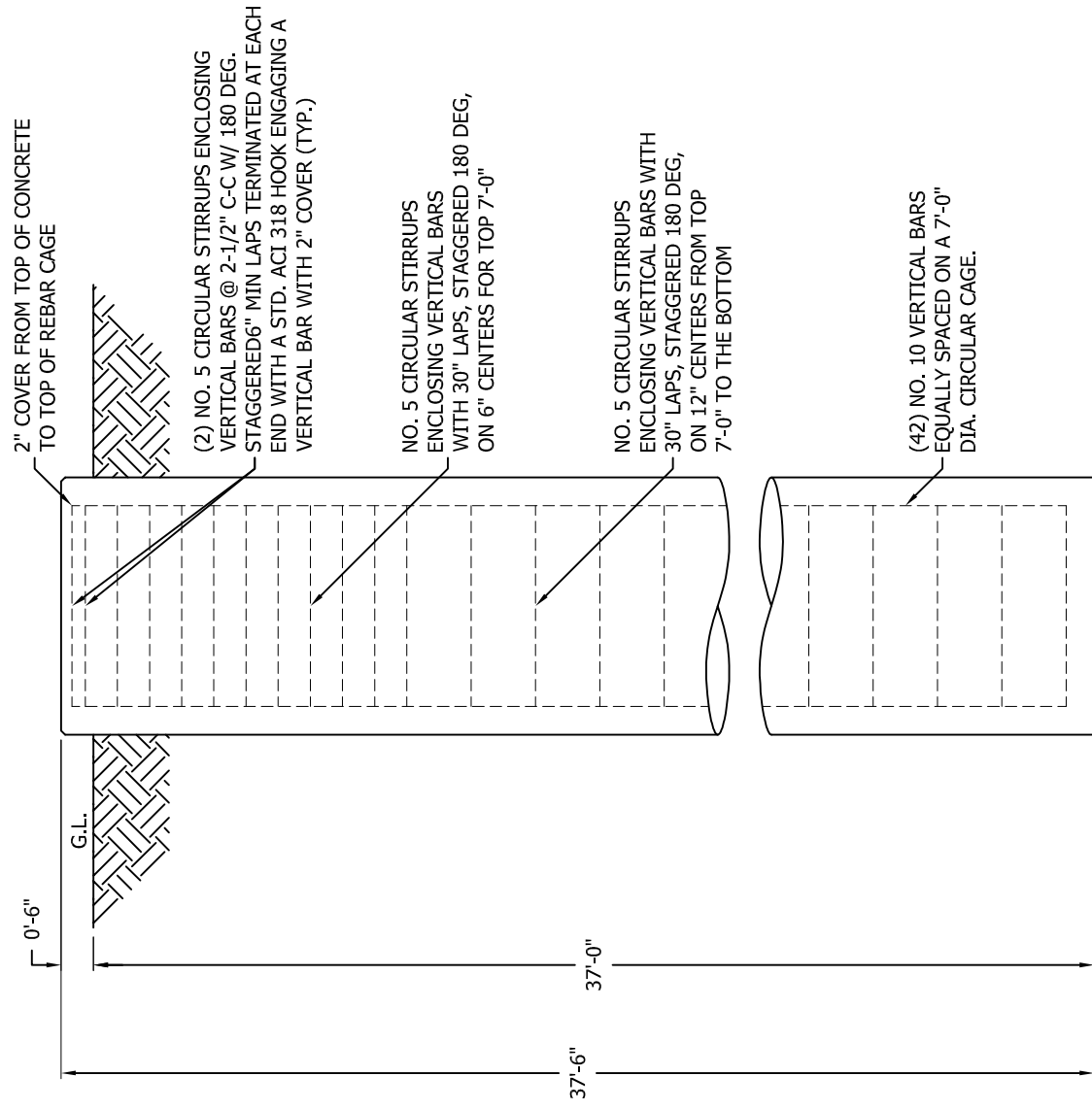
GENERAL NOTES:

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
 - DEPTH NEGLECTED FOR SKIN FRICTION = TOP 2.0 FT
 - AVERAGE ULTIMATE SKIN SHEAR FOR UPLIFT: 2.0 FT TO 10.0 FT DEPTH = 400 PSF, AND 10.0 FT TO 24.0 FT DEPTH = 200 PSF, AND 24.0 FT TO 27.5 FT DEPTH = 400 PSF, AND 27.5 FT TO 37.0 FT DEPTH = 2000 PSF.
 - AVERAGE ULTIMATE SKIN SHEAR FOR DOWNLOAD: 2.0 FT TO 10.0 FT DEPTH = 400 PSF, AND 10.0 FT TO 24.0 FT DEPTH = 200 PSF, AND 24.0 FT TO 27.5 FT DEPTH = 400 PSF, AND 27.5 FT TO 37.0 FT DEPTH = 2000 PSF.
 - ULTIMATE NET END BEARING AT 37.0 FT = 150.00 KSF.
 - GROUNDWATER TABLE AT 14.0 FT BELOW GROUND.
- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI (31.0 MPA) IN 28 DAYS.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEMPORARY CASING IS UTILIZED, BRACING SHALL BE ADEQUATE TO RESIST FORCES OCCURRING FROM FLOWING CONCRETE DURING CASING EXTRACTION.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 MM) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 MM) MINIMUM COVER ON REINFORCEMENT.
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. **22-134630** DATED **06/09/2023** BY **POWER OF DESIGN GROUP, LLC**.
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION INSTALLATION TOLERANCES SEE STRUCTURE ASSEMBLY DRAWING.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
- TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19MM X 19MM) MINIMUM.
- FOUNDATION DESIGN ASSUMES CASING, IF USED, WILL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBED UPON CASING REMOVAL.



PLAN VIEW

N.T.S.



ELEVATION VIEW

N.T.S.

FACTORED REACTIONS/LEG

DOWNLOAD =	783.3 KIPS
UPLIFT =	652 KIPS
SHEAR =	73.3 KIPS

VOLUME OF CONCRETE

(1) FOUNDATION	69.8 CU. YDS
(3) FOUNDATIONS	209.4 CU. YDS



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TOWERCO LLC
DRILLED PIER
FOUNDATION DETAILS
KY0106 LV ETNA, KY

DWN:	AS	CHK'D:	SY	DATE:	01/17/2024
ENGR:	AS	SHEET #:	1 OF 1		
PRJ. ENGR:	AS	PRJ. MANAGR:			

DRAWING NO:

245169-01-F2

REV:

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File: W:\Jobs\2024\245169\ENGINEERING\245169.out
Contract: 245169
Project: 350 FT RTL TOWER
Date and Time: 1/17/2024 9:19:49 AM

Revision: 1
Site: KY0106 LV ETNA- KY
Engineer: AS

Section A: PROJECT DATA

Project Title: 350 FT RTL TOWER
Customer Name: TOWERCO LLC
Site: KY0106 LV ETNA- KY
Contract No.: 245169
Revision: 1
Engineer: AS
Date: Jan 17 2024
Time: 09:19:26 AM

Design Standard: ANSI/TIA-222-G-2005 Addendum 2

GENERAL DESIGN CONDITIONS

Start wind direction: 0.00 (Deg)
End wind direction: 330.00 (Deg)
Increment wind direction: 30.00 (Deg)
Elevation above ground: 0.00 (ft)
Gust Response Factor Gh: 0.85
Structure class: II
Exposure category: C
Topographic category: 1
Material Density: 490.1(lbs/ft³)
Young's Modulus: 29000.0(ksi)
Poisson Ratio: 0.30
Weight Multiplier: 1.25
Minimum Bracing Resistance as per 4.4.1

WIND ONLY CONDITIONS:

Ultimate Design Wind Speed (No Ice): 115.00(mph)
Nominal Design Wind Speed (No Ice): 89.08(mph)
Directionality Factor Kd: 0.85
Importance Factor I: 1.00
Wind Load Factor: 1.60
Dead Load Factor: 1.20
Dead Load Factor for Uplift: 0.90

WIND AND ICE CONDITIONS:

Basic Wind Speed (With Ice): 30.00(mph)
Directionality Factor Kd: 0.85
Wind Load Importance Factor Iw: 1.00
Ice Thickness Importance Factor Ii: 1.00
Ice Thickness: 0.75 (in)
Ice Density: 56.19(lbs/ft³)
Wind Load Factor: 1.00
Dead Load Factor: 1.20
Ice Load Factor: 1.00

WIND ONLY SERVICEABILITY CONDITIONS:

Serviceability Wind Speed: 60.00(mph)
Directionality Factor Kd: 0.85
Importance Factor I: 1.00
Wind Load Factor: 1.00
Dead Load Factor: 1.00

EARTHQUAKE CONDITIONS:

Site class definition: C
Spectral response acceleration Ss: 0.208
Spectral response acceleration Sl: 0.095
Acceleration-based site coefficient Fa: 1.200
Velocity-based site coefficient Fv: 1.700
Design spectral response acceleration Sds: 0.166



TSTower - v 6.1.0.0 Tower Analysis Program
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Contract: 245169
Project: 350 FT RTL TOWER
Date and Time: 1/17/2024 9:19:49 AM

Revision: 1
Site: KY0106 LV ETNA- KY
Engineer: AS

Design spectral response acceleration Sd1: 0.108
Seismic analysis method: 1
Fundamental frequency of structure f1: 0.677
Total seismic shear Vs (Kips) : 3.27

Analysis performed using: TowerSoft Finite Element Analysis Program

File: W:\Jobs\2024\245169\ENGINEERING\245169.out

Contract: 245169

Project: 350 FT RTL TOWER

Date and Time: 1/17/2024 9:19:49 AM

Revision: 1

Site: KY0106 LV ETNA- KY

Engineer: AS

Section B: STRUCTURE GEOMETRY

TOWER GEOMETRY

Cross-Section	Height (ft)	Tot Height (ft)	# of Section	Bot Width (in)	Top Width (in)
Triangular	350.00	455.00	14	461.54	57.53

SECTION GEOMETRY

Sec #	Sec. Name	Elevation		Widths		Legs (lbs)	Brcg. (lbs)	Masses			Brcg. Clear. (in)	
		Bottom (ft)	Top (ft)	Bottom (in)	Top (in)			Sec.Brc (lbs)	Int.Brc (lbs)	Sect. Database (lbs)		
14	RLS04*	330.00	350.00	58	58	572	478	0	0	1050	0	0.787
13	RLT06	310.00	330.00	83	58	1131	680	0	0	1811	0	0.787
12	RLT08	290.00	310.00	108	83	1565	749	0	0	2314	0	0.787
11	RLT10	270.00	290.00	132	108	1717	830	0	0	2547	0	0.787
10	RLT12	250.00	270.00	156	132	2153	1253	0	0	3407	0	0.787
9	RLT14*	230.00	250.00	182	156	2154	1301	0	0	3455	0	0.787
8	RLT16*	210.00	230.00	206	182	2484	1397	0	0	3881	0	0.787
7	RLT19*	180.00	210.00	242	206	4896	2741	0	0	7638	0	0.787
6	RLT22*	150.00	180.00	280	242	4897	3557	0	0	8455	0	0.787
5	RLT25*	120.00	150.00	316	280	6178	3977	0	0	10155	0	0.787
4	RLT28*	90.00	120.00	352	316	6177	4916	1664	584	13341	0	0.787
3	RLT31*	60.00	90.00	390	352	6178	5962	1803	746	14688	0	0.787
2	RLT34*	30.00	60.00	426	390	7381	6825	1949	823	16977	0	0.787
1	RLT37*	0.00	30.00	462	426	7381	7900	2092	1330	18703	0	0.787
Total Mass:						54863	42567	7508	3483	108422	0	

PANEL GEOMETRY

Sec#	Pnl#	Type	SecBrcg	Mid. Horiz Continuous	Horiz	Height (ft)	Bottom Width (in)	Top Width (in)	Plan Bracing	Hip Bracing	Gusset Plate Area (ft^2)	Gusset Plate Weight (lbs)
14	4	X	(None)	Yes	5.0	57.7	57.5	(None)	(None)	0.000	0.00	
14	3	X	(None)	None	5.0	58.0	57.7	(None)	(None)	0.300	0.30	
14	2	X	(None)	None	5.0	58.2	58.0	(None)	(None)	0.300	0.30	
14	1	X	(None)	None	5.0	58.4	58.2	(None)	(None)	0.300	0.30	
13	3	X	(None)	Yes	6.7	66.7	58.4	(None)	(None)	0.300	0.30	
13	2	X	(None)	None	6.7	75.0	66.7	(None)	(None)	0.300	0.30	
13	1	X	(None)	None	6.7	83.3	75.0	(None)	(None)	0.300	0.30	
12	3	X	(None)	None	6.7	91.6	83.3	(None)	(None)	0.300	0.30	
12	2	X	(None)	None	6.7	99.9	91.6	(None)	(None)	0.300	0.30	
12	1	X	(None)	None	6.7	108.2	99.9	(None)	(None)	0.300	0.30	
11	3	X	(None)	None	6.7	116.2	108.2	(None)	(None)	0.300	0.30	
11	2	X	(None)	None	6.7	124.2	116.2	(None)	(None)	0.300	0.30	
11	1	X	(None)	None	6.7	132.2	124.2	(None)	(None)	0.300	0.30	
10	3	X	(None)	None	6.7	140.2	132.2	(None)	(None)	0.300	0.30	
10	2	X	(None)	None	6.7	148.2	140.2	(None)	(None)	0.300	0.30	
10	1	X	(None)	None	6.7	156.2	148.2	(None)	(None)	0.300	0.30	
9	3	X	(None)	None	6.7	164.8	156.2	(None)	(None)	0.300	0.30	
9	2	X	(None)	None	6.7	173.4	164.8	(None)	(None)	0.300	0.30	
9	1	X	(None)	None	6.7	182.0	173.4	(None)	(None)	0.300	0.30	
8	2	X	(None)	None	10.0	194.0	182.0	(None)	(None)	0.300	0.30	
8	1	X	(None)	None	10.0	206.0	194.0	(None)	(None)	0.300	0.30	
7	3	X	(None)	None	10.0	218.0	206.0	(None)	(None)	0.300	0.30	
7	2	X	(None)	None	10.0	230.0	218.0	(None)	(None)	0.300	0.30	
7	1	X	(None)	None	10.0	242.0	230.0	(None)	(None)	0.300	0.30	
6	3	X	(None)	None	10.0	254.6	242.0	(None)	(None)	0.300	0.30	
6	2	X	(None)	None	10.0	267.2	254.6	(None)	(None)	0.300	0.30	
6	1	X	(None)	None	10.0	279.8	267.2	(None)	(None)	0.300	0.30	
5	3	X	(None)	None	10.0	291.8	279.8	(None)	(None)	0.300	0.30	
5	2	X	(None)	None	10.0	303.8	291.8	(None)	(None)	0.300	0.30	
5	1	X	(None)	None	10.0	315.8	303.8	(None)	(None)	0.300	0.30	

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Engineer: AS

4	2	K	2-Subdiv.	Yes	15.0	333.8	315.8	2-Subdiv. (None)	0.300	0.30
4	1	K	2-Subdiv.	Yes	15.0	351.8	333.8	2-Subdiv. (None)	0.300	0.30
3	2	K	2-Subdiv.	Yes	15.0	370.7	351.8	2-Subdiv. (None)	0.300	0.30
3	1	K	2-Subdiv.	Yes	15.0	389.5	370.7	2-Subdiv. (None)	0.300	0.30
2	2	K	2-Subdiv.	Yes	15.0	407.5	389.5	2-Subdiv. (None)	0.300	0.30
2	1	K	2-Subdiv.	Yes	15.0	425.5	407.5	2-Subdiv. (None)	0.300	0.30
1	2	K	2-Subdiv.	Yes	15.0	443.5	425.5	2-Subdiv. (None)	0.300	0.30
1	1	K	2-Subdiv.	Yes	15.0	461.5	443.5	2-Subdiv. (None)	0.300	0.30

MEMBER PROPERTIES

Sec/ Member	Type	Description	Steel Grade	Conn. Type	Bolt #-Size	Bolt Grade	End Dist.	Edge Dist.	Gusset Thick.	Gusset Grade	Bolt Space	Dble Mem.
14/4	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
14/4	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
14/4	Horiz	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
14/3	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
14/3	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
14/2	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
14/2	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
14/1	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
14/1	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
13/3	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
13/3	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
13/3	Horiz	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
13/2	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
13/2	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
13/1	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
13/1	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
12/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
12/3	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
12/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
12/2	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
12/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
12/1	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
11/3	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						
11/3	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
11/2	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						
11/2	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
11/1	Leg	PIPE 6.625x0.340	A500	gr.CSTension	6-1.000	A325X						

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11/1	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
10/3	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X						
10/3	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
10/2	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X						
10/2	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
10/1	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.000	A325X						
10/1	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
9/3	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X						
9/3	Diag	L3x3x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572	gr.50	2.000
9/2	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X						
9/2	Diag	L3x3x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572	gr.50	2.000
9/1	Leg	PIPE 6.625x0.432	A500	gr.CSTension	6-1.500	A325X						
9/1	Diag	L3x3x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572	gr.50	2.000
8/2	Leg	PIPE 8.625x0.375	A500	gr.CSTension	6-1.500	A325X						
8/2	Diag	L3x3x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000
8/1	Leg	PIPE 8.625x0.375	A500	gr.CSTension	6-1.500	A325X						
8/1	Diag	L3x3x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.500	0.375	A572	gr.50	2.000
7/3	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X						
7/3	Diag	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572	gr.50	2.000
7/2	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X						
7/2	Diag	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572	gr.50	2.000
7/1	Leg	PIPE 8.625x0.500	A500	gr.CSTension	6-1.500	A325X						
7/1	Diag	L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572	gr.50	2.000
6/3	Leg	PIPE 8.625x0.500	A500	gr.CSTension	7-1.500	A325X						
6/3	Diag	L4x4x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000
6/2	Leg	PIPE 8.625x0.500	A500	gr.CSTension	7-1.500	A325X						
6/2	Diag	L4x4x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000
6/1	Leg	PIPE 8.625x0.500	A500	gr.CSTension	7-1.500	A325X						
6/1	Diag	L4x4x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000
5/3	Leg	PIPE 10.750x0.500	A500	gr.CSTension	7-1.500	A325X						
5/3	Diag	L4x4x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000
5/2	Leg	PIPE 10.750x0.500	A500	gr.CSTension	7-1.500	A325X						
5/2	Diag	L4x4x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000
5/1	Leg	PIPE 10.750x0.500	A500	gr.CSTension	7-1.500	A325X						
5/1	Diag	L4x4x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000
4/2	Leg	PIPE 10.750x0.500	A500	gr.CSTension	7-1.500	A325X						
4/2	Diag	2L3 1/2x3 1/2x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572	gr.50	2.000
0.3754.71												
4/2	Horiz	L4x4x1/4	A529	gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572	gr.50	2.000

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Engineer: AS

4/2	SecD1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
4/2	SecH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
4/2	PlanH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
4/1	Leg	PIPE 10.750x0.500	A500 gr.CSTension	6-1.500	A325X					
4/1	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572 gr.50	2.000
0.3755.12										
4/1	Horiz	L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572 gr.50	2.000
4/1	SecD1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
4/1	SecH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
4/1	PlanH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
3/2	Leg	PIPE 10.750x0.500	A500 gr.CSTension	9-1.500	A325X					
3/2	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572 gr.50	2.000
0.3753.60										
3/2	Horiz	L4x4x3/8	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572 gr.50	2.000
3/2	SecD1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
3/2	SecH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
3/2	PlanH1	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.000	0.250	A572 gr.50	2.000
3/1	Leg	PIPE 10.750x0.500	A500 gr.CSTension	7-1.500	A325X					
3/1	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572 gr.50	2.000
0.3753.60										
3/1	Horiz	L4x4x3/8	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572 gr.50	2.000
3/1	SecD1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
3/1	SecH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
3/1	PlanH1	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.000	0.250	A572 gr.50	2.000
2/2	Leg	PIPE 12.750x0.500	A500 gr.CSTension	9-1.500	A325X					
2/2	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572 gr.50	2.000
0.3753.49										
2/2	Horiz	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572 gr.50	2.000
0.3755.15										
2/2	SecD1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
2/2	SecH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
2/2	PlanH1	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.000	0.250	A572 gr.50	2.000
2/1	Leg	PIPE 12.750x0.500	A500 gr.CSTension	7-1.500	A325X					
2/1	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572 gr.50	2.000
0.3753.80										
2/1	Horiz	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572 gr.50	2.000
0.3755.39										

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Engineer: AS

2/1	SecD1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
2/1	SecH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
2/1	PlanH1	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.000	0.250	A572 gr.50	2.000
1/2	Leg	PIPE 12.750x0.500	A500 gr.CSTension	9-1.500	A325X					
1/2	Diag	2L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.394	A572 gr.50	2.000
0.3753.69										
1/2	Horiz	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.394	A572 gr.50	2.000
0.3754.24										
1/2	SecD1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.394	A572 gr.50	2.000
1/2	SecH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.394	A572 gr.50	2.000
1/2	PlanH1	2L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.394	A572 gr.50	2.000
0.3754.41										
1/1	Leg	PIPE 12.750x0.500	A500 gr.CSTension	8-1.500	A325X					
1/1	Diag	2L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572 gr.50	2.000
0.3754.03										
1/1	Horiz	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.375	A572 gr.50	2.000
0.3754.42										
1/1	SecD1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
1/1	SecH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572 gr.50	2.000
1/1	PlanH1	2L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572 gr.50	2.000
0.3754.41										



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Engineer: AS

Section D: TRANSMISSION LINE DATA

Transmission Lines Position

No.	Bot El (ft)	Top El (ft)	Desc.	Radius (ft)	Az.	Orient.	No.	No. of Rows	Vert.	Antenna	User Ka
1	0.00	350.00	3/8 CABLE	23.00	0.00	0.00	1	1	Yes		
2	0.00	350.00	RC0.75-Cnd	19.36	60.00	5.00	1	1	No		
3	0.00	345.00	TX Ladder	12.82	60.00	30.00	1	1	No		
4	0.00	345.00	LDF7P-50A	12.82	60.00	30.00	12	2	No		
5	0.00	333.00	TX Ladder	12.82	180.00	150.00	1	1	No		
6	0.00	333.00	LDF7P-50A	12.82	180.00	150.00	12	2	No		
7	0.00	323.00	TX Ladder	12.82	300.00	270.00	1	1	No		
8	0.00	323.00	LDF7P-50A	12.82	300.00	270.00	12	2	No		

Transmission Lines Details

No.	Desc.	Width (in)	Depth (in)	Unit Mass (lb/ft)	Line Spacing (in)	Row Spacing (in)
1	3/8 CABLE	0.38	0.38	1.00	2.750	2.750
2	RC0.75-Cnd	1.05	1.05	1.09	2.750	2.750
3	TX Ladder	4.70	1.50	4.00	2.750	2.750
4	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
5	TX Ladder	4.70	1.50	4.00	2.750	2.750
6	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
7	TX Ladder	4.70	1.50	4.00	2.750	2.750
8	LDF7P-50A	2.01	2.01	0.92	2.250	2.750



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Section F: POINT LOAD DATA

Structure Azimuth from North:0.00

POINT LOADS

No.	Description	Elev. (ft)	Radius (ft)	Azim. (Deg)	Orient. (Deg)	Vertical Offset (ft)	Tx Line	Comments
1	BEACON & LR	350.00	1.00	0.0	0.0	0.00		
2	42,000 SQ-IN MAX EPA	345.00	0.00	0.0	0.0	0.00		
3	20,000 SQ-IN MAX EPA	333.00	0.00	0.0	0.0	0.00		
4	20,000 SQ-IN MAX EPA	323.00	0.00	0.0	0.0	0.00		

POINT LOADS WIND AREAS AND WEIGHTS

No.	Description	Frontal Bare Area (ft^2)	Lateral Bare Area (ft^2)	Frontal Iced Area (ft^2)	Lateral Iced Area (ft^2)	Weight Bare (Kips)	Weight Iced (Kips)	Gh
1	BEACON & LR	5.00	5.00	10.00	10.00	0.25	0.50	0.85
2	42,000 SQ-IN MAX EPA	337.00	337.00	674.00	674.00	4.00	8.00	0.85
3	20,000 SQ-IN MAX EPA	184.00	184.00	368.00	368.00	3.00	6.00	0.85
4	20,000 SQ-IN MAX EPA	184.00	184.00	368.00	368.00	3.00	6.00	0.85



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Project: 350 FT RTL TOWER

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Site: KY0106 LV ETNA- KY

Engineer: AS

Section H: STRUCTURE DISPLACEMENT DATA

Load Combination Wind Only - Serviceability

Wind Direction Maximum displacements

Node	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert.Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist (Deg)
141	350.0	18.3	17.9	-0.2	0.61	0.61	0.01
138	345.0	17.7	17.3	-0.2	0.63	0.63	0.01
135	340.0	17.0	16.6	-0.2	0.62	0.61	0.01
132	335.0	16.4	16.0	-0.2	0.61	0.60	0.01
129	330.0	15.7	15.4	-0.2	0.59	0.58	0.01
126	323.3	14.9	14.6	-0.2	0.57	0.56	0.01
123	316.7	14.1	13.8	-0.2	0.54	0.53	-0.01
120	310.0	13.4	13.0	-0.2	0.51	0.50	0.01
117	303.3	12.7	12.3	-0.2	0.50	0.49	-0.01
114	296.7	12.0	11.7	-0.2	0.47	0.46	0.01
111	290.0	11.3	11.0	-0.2	0.46	0.45	-0.01
108	283.3	10.7	10.4	-0.2	0.43	0.42	0.01
105	276.7	10.1	9.8	-0.2	0.42	0.41	-0.01
102	270.0	9.5	9.2	-0.2	0.38	0.37	0.01
99	263.3	9.0	8.7	-0.2	0.38	0.38	-0.01
96	256.7	8.4	8.2	-0.2	0.35	0.34	0.01
93	250.0	7.9	7.7	-0.2	0.35	0.34	-0.01
90	243.3	7.4	7.2	-0.2	0.32	0.31	0.01
87	236.7	7.0	6.8	-0.1	0.32	0.31	-0.01
84	230.0	6.6	6.4	-0.1	0.28	0.28	0.01
81	220.0	6.0	5.8	-0.1	0.27	0.27	0.00
78	210.0	5.4	5.2	-0.1	0.24	0.24	0.01
75	200.0	4.9	4.7	-0.1	0.24	0.23	0.00
72	190.0	4.4	4.2	-0.1	0.21	0.21	0.01
69	180.0	3.9	3.8	-0.1	0.21	0.20	0.00
66	170.0	3.5	3.4	-0.1	0.18	0.18	0.01
63	160.0	3.1	3.0	-0.1	0.18	0.17	0.00
60	150.0	2.7	2.6	-0.1	0.16	0.15	0.01
57	140.0	2.4	2.3	-0.1	0.16	0.15	0.00
54	130.0	2.1	2.0	-0.1	0.14	0.13	0.00
50	120.0	1.8	1.7	-0.1	0.12	0.12	0.00
44	105.0	1.4	1.3	-0.1	0.11	0.10	0.00
38	90.0	1.1	1.0	-0.1	0.09	0.09	0.00
32	75.0	0.8	0.7	-0.1	0.07	0.07	0.00
26	60.0	0.5	0.5	0.0	0.06	0.06	0.00
20	45.0	0.3	-0.3	0.0	0.05	0.05	0.00
14	30.0	0.2	-0.2	0.0	0.04	-0.03	0.00
8	15.0	0.1	-0.1	0.0	0.02	-0.02	0.00
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00

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Section L: STRENGTH ASSESSMENT SORTED DATA

Load Combination	Max Envelope										
Wind Direction	Maximum										
Sec	Pnl	Elev.	MType	Desc.	Len	kl/r	Gov.	Gov.	Max	Max	Asses.
		(ft)			(ft)		comp.	tens.	Compr.	Tens.	Ratio
							cap.	cap.	(Kips)	(Kips)	
							(Kips)	(Kips)			
14	4	345.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	1.9	1.4	0.02
14	3	340.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	9.8	6.6	0.12
14	2	335.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	28.6	24.8	0.35
14	1	330.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	47.0	41.9	0.57
13	3	323.33	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	72.3	65.7	0.45
13	2	316.67	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	102.0	92.4	0.64
13	1	310.00	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	130.4	119.7	0.81
12	3	303.33	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	154.1	142.5	0.64
12	2	296.67	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	175.9	163.1	0.73
12	1	290.00	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	194.8	181.0	0.81
11	3	283.33	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	213.1	198.1	0.78
11	2	276.67	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	229.8	213.6	0.84
11	1	270.00	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	246.3	228.8	0.90
10	3	263.33	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	330.3	261.3	242.6	0.76
10	2	256.67	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	330.3	276.5	256.2	0.80
10	1	250.00	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	330.3	290.6	268.9	0.85
9	3	243.33	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	378.5	304.1	280.9	0.89
9	2	236.67	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	378.5	316.9	292.0	0.92
9	1	230.00	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	378.5	329.1	302.7	0.96
8	2	220.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	345.4	316.8	0.89
8	1	210.00	Leg	PIPE 8.625x0.375	10.02	41.2	386.4	437.4	364.1	333.1	0.94
7	3	200.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	384.0	350.0	0.76
7	2	190.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	402.5	365.5	0.80
7	1	180.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	421.9	381.7	0.83
6	3	170.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	439.7	396.4	0.87
6	2	160.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	458.3	411.4	0.91
6	1	150.00	Leg	PIPE 8.625x0.500	10.02	41.7	505.5	574.2	475.5	425.3	0.94
5	3	140.00	Leg	PIPE 10.750x0.500	10.02	33.1	668.7	724.5	494.8	440.7	0.74
5	2	130.00	Leg	PIPE 10.750x0.500	10.02	33.1	668.7	724.5	513.1	455.3	0.77
5	1	120.00	Leg	PIPE 10.750x0.500	10.02	33.1	668.7	724.5	533.2	471.2	0.80
4	2	105.00	Leg	PIPE 10.750x0.500	15.02	24.8	692.6	724.5	544.1	477.5	0.79
4	1	90.00	Leg	PIPE 10.750x0.500	15.02	24.8	692.6	724.5	573.9	500.0	0.83
3	2	75.00	Leg	PIPE 10.750x0.500	15.03	24.8	692.5	724.5	604.1	522.6	0.87
3	1	60.00	Leg	PIPE 10.750x0.500	15.03	24.8	692.5	724.5	633.1	543.8	0.91
2	2	45.00	Leg	PIPE 12.750x0.500	15.02	20.8	838.9	865.8	662.4	564.7	0.79
2	1	30.00	Leg	PIPE 12.750x0.500	15.02	20.8	838.9	865.8	693.4	586.8	0.83
1	2	15.00	Leg	PIPE 12.750x0.500	15.02	20.8	838.9	865.8	724.5	608.7	0.86
1	1	0.00	Leg	PIPE 12.750x0.500	15.02	20.8	838.9	865.8	755.6	630.3	0.90
14	4	345.00	Diag	L1 3/4x1 3/4x3/16	6.93	108.5	11.8	10.7	2.5	2.6	0.25
14	3	340.00	Diag	L1 3/4x1 3/4x3/16	6.95	108.7	11.8	10.7	6.7	6.6	0.62
14	2	335.00	Diag	L1 3/4x1 3/4x3/16	6.96	108.9	11.7	10.7	6.9	7.0	0.66
14	1	330.00	Diag	L1 3/4x1 3/4x3/16	6.97	109.1	11.7	10.7	9.4	9.2	0.86
13	3	323.33	Diag	L2x2x1/4	8.47	118.4	15.1	15.2	9.2	9.1	0.61
13	2	316.67	Diag	L2x2x1/4	8.91	125.5	13.5	15.2	11.2	11.2	0.83
13	1	310.00	Diag	L2x2x1/4	9.38	133.5	11.9	15.2	10.2	10.2	0.86
12	3	303.33	Diag	L2x2x1/4	9.88	139.7	10.9	15.2	9.4	9.3	0.86
12	2	296.67	Diag	L2x2x1/4	10.40	148.3	9.7	15.2	8.8	8.7	0.91
12	1	290.00	Diag	L2x2x1/4	10.94	157.0	8.6	15.2	8.3	8.3	0.97
11	3	283.33	Diag	L2 1/2x2 1/2x3/16	11.49	129.9	12.1	14.1	8.3	8.3	0.69
11	2	276.67	Diag	L2 1/2x2 1/2x3/16	12.04	136.9	10.9	14.1	8.2	8.2	0.76
11	1	270.00	Diag	L2 1/2x2 1/2x3/16	12.60	144.0	9.8	14.1	8.1	8.1	0.83
10	3	263.33	Diag	L2 1/2x2 1/2x1/4	13.17	151.2	11.8	15.2	8.1	8.0	0.69
10	2	256.67	Diag	L2 1/2x2 1/2x1/4	13.75	158.5	10.7	15.2	8.1	8.1	0.76
10	1	250.00	Diag	L2 1/2x2 1/2x1/4	14.33	165.8	9.8	15.2	8.2	8.1	0.83

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9	3	243.33	Diag	L3x3x3/16	14.95	144.1	11.9	14.7	7.6	7.6	0.64
9	2	236.67	Diag	L3x3x3/16	15.59	150.8	10.8	14.7	7.7	7.7	0.71
9	1	230.00	Diag	L3x3x3/16	16.24	157.5	9.9	14.7	7.9	7.9	0.80
8	2	220.00	Diag	L3x3x1/4	18.59	165.0	11.9	28.1	9.6	9.6	0.80
8	1	210.00	Diag	L3x3x1/4	19.44	171.8	11.0	28.1	9.9	9.8	0.90
7	3	200.00	Diag	L3 1/2x3 1/2x1/4	20.30	156.7	15.5	30.4	10.0	10.1	0.65
7	2	190.00	Diag	L3 1/2x3 1/2x1/4	21.18	162.6	14.4	30.4	10.4	10.3	0.72
7	1	180.00	Diag	L3 1/2x3 1/2x1/4	22.06	168.6	13.4	30.4	10.7	10.7	0.79
6	3	170.00	Diag	L4x4x1/4	22.98	154.7	18.3	30.4	10.5	10.3	0.57
6	2	160.00	Diag	L4x4x1/4	23.93	160.2	17.1	30.4	10.8	10.8	0.63
6	1	150.00	Diag	L4x4x1/4	24.89	165.7	16.0	30.4	11.3	11.2	0.71
5	3	140.00	Diag	L4x4x1/4	25.83	169.9	15.2	30.4	12.3	12.5	0.81
5	2	130.00	Diag	L4x4x1/4	26.76	175.2	14.3	30.4	13.0	12.8	0.91
5	1	120.00	Diag	L4x4x1/4	27.69	180.6	13.4	30.4	13.3	13.4	0.99
4	2	105.00	Diag	2L3 1/2x3 1/2x1/4	20.46	163.7	28.5	46.6	19.8	19.8	0.69
4	1	90.00	Diag	2L3 1/2x3 1/2x1/4	20.98	170.9	26.1	46.6	20.4	20.4	0.78
3	2	75.00	Diag	2L3 1/2x3 1/2x1/4	21.53	162.6	28.9	46.6	19.9	19.9	0.69
3	1	60.00	Diag	2L3 1/2x3 1/2x1/4	22.11	166.6	27.5	46.6	20.5	20.5	0.74
2	2	45.00	Diag	2L3 1/2x3 1/2x1/4	22.66	169.1	26.7	46.6	22.1	22.1	0.83
2	1	30.00	Diag	2L3 1/2x3 1/2x1/4	23.23	175.1	24.9	46.6	22.6	22.6	0.91
1	2	15.00	Diag	2L4x4x1/4	23.81	157.1	35.5	53.7	23.0	23.0	0.65
1	1	0.00	Diag	2L4x4x1/4	24.39	162.6	33.2	51.2	23.3	23.3	0.70
14	4	345.00	Horiz	L1 3/4x1 3/4x3/16	4.79	145.5	6.6	10.7	1.7	1.7	0.26
13	3	323.33	Horiz	L1 3/4x1 3/4x3/16	4.87	145.1	6.7	10.7	1.2	1.2	0.18
4	2	105.00	Horiz	L4x4x1/4	13.16	161.2	16.9	30.4	13.6	13.4	0.81
4	1	90.00	Horiz	L4x4x1/4	13.91	168.1	15.5	30.4	14.3	14.2	0.93
3	2	75.00	Horiz	L4x4x3/8	14.66	176.7	20.7	30.4	14.4	14.1	0.70
3	1	60.00	Horiz	L4x4x3/8	15.44	184.0	19.1	30.4	15.1	14.9	0.79
2	2	45.00	Horiz	2L3 1/2x3 1/2x1/4	16.23	170.2	26.4	46.6	16.6	16.5	0.63
2	1	30.00	Horiz	2L3 1/2x3 1/2x1/4	16.98	178.4	24.0	46.6	17.4	17.2	0.73
1	2	15.00	Horiz	2L3 1/2x3 1/2x1/4	17.73	161.0	29.4	49.0	18.0	17.8	0.61
1	1	0.00	Horiz	2L3 1/2x3 1/2x1/4	18.48	166.1	27.7	46.6	18.5	18.3	0.67
4	2	105.00	SecH1	L3 1/2x3 1/2x1/4	6.58	117.2	15.2	15.2	9.4	9.4	0.62
4	2	105.00	SecD1	L3 1/2x3 1/2x1/4	9.74	169.3	13.3	15.2	7.4	7.4	0.55
4	2	105.00	PlanH1	L3 1/2x3 1/2x1/4	13.16	228.8	7.3	15.2	0.1	0.1	0.01
4	1	90.00	SecH1	L3 1/2x3 1/2x1/4	6.95	120.9	15.2	15.2	9.9	9.9	0.65
4	1	90.00	SecD1	L3 1/2x3 1/2x1/4	9.98	173.6	12.7	15.2	7.5	7.5	0.59
4	1	90.00	PlanH1	L3 1/2x3 1/2x1/4	13.91	241.9	6.5	15.2	0.1	0.1	0.01
3	2	75.00	SecH1	L3 1/2x3 1/2x1/4	7.33	127.5	15.2	15.2	10.4	10.4	0.69
3	2	75.00	SecD1	L3 1/2x3 1/2x1/4	10.22	177.7	12.1	15.2	7.7	7.7	0.64
3	2	75.00	PlanH1	L4x4x1/4	14.66	219.9	9.1	15.2	0.1	0.1	0.01
3	1	60.00	SecH1	L3 1/2x3 1/2x1/4	7.72	134.3	15.2	15.2	10.9	10.9	0.72
3	1	60.00	SecD1	L3 1/2x3 1/2x1/4	10.49	182.4	11.5	15.2	7.8	7.8	0.68
3	1	60.00	PlanH1	L4x4x1/4	15.44	231.7	8.2	15.2	0.1	0.1	0.01
2	2	45.00	SecH1	L3 1/2x3 1/2x1/4	8.12	141.1	15.2	15.2	11.4	11.4	0.75
2	2	45.00	SecD1	L3 1/2x3 1/2x1/4	10.78	187.5	10.9	15.2	8.0	8.0	0.73
2	2	45.00	PlanH1	L4x4x1/4	16.23	243.5	7.4	15.2	0.1	0.1	0.01
2	1	30.00	SecH1	L3 1/2x3 1/2x1/4	8.49	147.7	15.2	15.2	12.0	12.0	0.79
2	1	30.00	SecD1	L3 1/2x3 1/2x1/4	11.05	192.2	10.3	15.2	8.1	8.1	0.79
2	1	30.00	PlanH1	L4x4x1/4	16.98	254.7	6.8	15.2	0.1	0.1	0.02
1	2	15.00	SecH1	L3 1/2x3 1/2x1/4	8.87	154.2	15.2	15.2	12.5	12.5	0.82
1	2	15.00	SecD1	L3 1/2x3 1/2x1/4	11.33	197.1	9.8	15.2	8.3	8.3	0.85
1	2	15.00	PlanH1	2L3x3x1/4	17.73	228.8	12.4	30.4	0.1	0.1	0.01
1	1	0.00	SecH1	L3 1/2x3 1/2x1/4	9.24	160.7	14.8	15.2	13.0	13.0	0.88
1	1	0.00	SecD1	L3 1/2x3 1/2x1/4	11.61	202.0	9.4	15.2	8.5	8.5	0.91
1	1	0.00	PlanH1	2L3x3x1/4	18.48	238.5	11.4	19.5	0.1	0.1	0.01

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Engineer: AS

Section M: SECTION PROPERTIES DATA

Sec	Pan	Memb.	Steel	Conn.	Bolts	Bolt	Bolt	End	Gusset	kl/r	Comp	Tens	Bolt	Bear.	Block
		Type	Grade	Type	Bolts	Size	Grade	Dist.	Thick.		Cap.	Cap.	Cap.	Cap.	Shear
						(in)		(in)	(in)		(Kips)	(Kips)	(Kips)	(Kips)	(Kips)
14	4	Leg	A500 gr.CS	Tension	5	0.875	A325X	2.100	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
14	4	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	108.5	11.8	17.4	15.2S	14.7	10.7
14	4	Horiz	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	145.5	6.6	17.4	15.2S	14.7	10.7
14	3	Leg	A500 gr.CS	Tension	5	0.875	A325X	2.100	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
14	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	108.7	11.8	17.4	15.2S	14.7	10.7
14	2	Leg	A500 gr.CS	Tension	5	0.875	A325X	2.100	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
14	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	108.9	11.7	17.4	15.2S	14.7	10.7
14	1	Leg	A500 gr.CS	Tension	5	0.875	A325X	2.100	N/A	51.7	82.5	100.4	209.9T	N/A	N/A
14	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	109.1	11.7	17.4	15.2S	14.7	10.7
13	3	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
13	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	118.4	15.1	27.3	15.2S	19.5	15.7
13	3	Horiz	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	145.1	6.7	17.4	15.2S	14.7	10.7
13	2	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
13	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	125.5	13.5	27.3	15.2S	19.5	15.7
13	1	Leg	A500 gr.CS	Tension	5	1.000	A325X	2.400	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
13	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	133.5	11.9	27.3	15.2S	19.5	15.7
12	3	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
12	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	139.7	10.9	27.3	15.2S	19.5	15.7
12	2	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
12	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	148.3	9.7	27.3	15.2S	19.5	15.7
12	1	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
12	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	157.0	8.6	27.3	15.2S	19.5	15.7
11	3	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
11	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	129.9	12.1	27.7	15.2S	14.7	14.1
11	2	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
11	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	136.9	10.9	27.7	15.2S	14.7	14.1
11	1	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
11	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	144.0	9.8	27.7	15.2S	14.7	14.1
10	3	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.4	343.5	378.5	330.3T	N/A	N/A
10	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	151.2	11.8	36.5	15.2S	19.5	18.7
10	2	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.4	343.5	378.5	330.3T	N/A	N/A
10	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	158.5	10.7	36.5	15.2S	19.5	18.7
10	1	Leg	A500 gr.CS	Tension	6	1.000	A325X	2.400	N/A	36.4	343.5	378.5	330.3T	N/A	N/A
10	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	165.8	9.8	36.5	15.2S	19.5	18.7
9	3	Leg	A500 gr.CS	Tension	6	1.500	A325X	2.250	N/A	36.4	343.5	378.5	765.3T	N/A	N/A
9	3	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	144.1	11.9	34.6	15.2S	14.7	16.4
9	2	Leg	A500 gr.CS	Tension	6	1.500	A325X	2.250	N/A	36.4	343.5	378.5	765.3T	N/A	N/A
9	2	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	150.8	10.8	34.6	15.2S	14.7	16.4
9	1	Leg	A500 gr.CS	Tension	6	1.500	A325X	2.250	N/A	36.4	343.5	378.5	765.3T	N/A	N/A
9	1	Diag	A529 gr.50	Bolted	1	0.625	A325X	1.500	0.250	157.5	9.9	34.6	15.2S	14.7	16.4
8	2	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.2	386.4	437.4	765.3T	N/A	N/A
8	2	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	165.0	11.9	45.6	30.4S	34.1	28.1
8	1	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.2	386.4	437.4	765.3T	N/A	N/A
8	1	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	171.8	11.0	45.6	30.4S	34.1	28.1
7	3	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
7	3	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	156.7	15.5	54.8	30.4S	34.1	31.1
7	2	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
7	2	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	162.6	14.4	54.8	30.4S	34.1	31.1
7	1	Leg	A500 gr.CS	Tension	6	1.500	A325X	3.600	N/A	41.7	505.5	574.2	765.3T	N/A	N/A
7	1	Diag	A529 gr.50	Bolted	2	0.625	A325X	1.125	0.375	168.6	13.4	54.8	30.4S	34.1	31.1

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Contract: 245169

Project: 350 FT RTL TOWER

Date and Time: 1/17/2024 9:19:49 AM

Revision: 1

Site: KY0106 LV ETNA- KY

Engineer: AS

6	3	Leg	A500	gr.CS	Tension	7	1.500	A325X	3.600	N/A	41.7	505.5	574.2	892.9T	N/A	N/A
6	3	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	154.7	18.3	63.9	30.4S	34.1	34.2
6	2	Leg	A500	gr.CS	Tension	7	1.500	A325X	3.600	N/A	41.7	505.5	574.2	892.9T	N/A	N/A
6	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	160.2	17.1	63.9	30.4S	34.1	34.2
6	1	Leg	A500	gr.CS	Tension	7	1.500	A325X	3.600	N/A	41.7	505.5	574.2	892.9T	N/A	N/A
6	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	165.7	16.0	63.9	30.4S	34.1	34.2
5	3	Leg	A500	gr.CS	Tension	7	1.500	A325X	3.600	N/A	33.1	668.7	724.5	892.9T	N/A	N/A
5	3	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	169.9	15.2	63.9	30.4S	34.1	34.2
5	2	Leg	A500	gr.CS	Tension	7	1.500	A325X	3.600	N/A	33.1	668.7	724.5	892.9T	N/A	N/A
5	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	175.2	14.3	63.9	30.4S	34.1	34.2
5	1	Leg	A500	gr.CS	Tension	7	1.500	A325X	3.600	N/A	33.1	668.7	724.5	892.9T	N/A	N/A
5	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	180.6	13.4	63.9	30.4S	34.1	34.2
4	2	Leg	A500	gr.CS	Tension	7	1.500	A325X	3.600	N/A	24.8	692.6	724.5	892.9T	N/A	N/A
4	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	163.7	28.5	109.5	60.7S	51.2	46.6
4	2	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	161.2	16.9	63.9	30.4S	34.1	34.2
4	2	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	117.2	27.8	54.8	15.2S	19.5	24.8
4	2	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	169.3	13.3	54.8	15.2S	19.5	24.8
4	2	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	228.8	7.3	54.8	15.2S	19.5	24.8
4	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	3.600	N/A	24.8	692.6	724.5	765.3T	N/A	N/A
4	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	170.9	26.1	109.5	60.7S	51.2	46.6
4	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	168.1	15.5	63.9	30.4S	34.1	34.2
4	1	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	120.9	26.1	54.8	15.2S	19.5	24.8
4	1	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	173.6	12.7	54.8	15.2S	19.5	24.8
4	1	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	241.9	6.5	54.8	15.2S	19.5	24.8
3	2	Leg	A500	gr.CS	Tension	9	1.500	A325X	3.600	N/A	24.8	692.5	724.5	1148.0TN/A	N/A	N/A
3	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	162.6	28.9	109.5	60.7S	51.2	46.6
3	2	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	176.7	20.7	94.1	30.4S	51.2	51.2
3	2	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	127.5	23.5	54.8	15.2S	19.5	24.8
3	2	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	177.7	12.1	54.8	15.2S	19.5	24.8
3	2	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	219.9	9.1	63.9	15.2S	19.5	27.9
3	1	Leg	A500	gr.CS	Tension	7	1.500	A325X	3.600	N/A	24.8	692.5	724.5	892.9T	N/A	N/A
3	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	166.6	27.5	109.5	60.7S	51.2	46.6
3	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	184.0	19.1	94.1	30.4S	51.2	51.2
3	1	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	134.3	21.2	54.8	15.2S	19.5	24.8
3	1	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	182.4	11.5	54.8	15.2S	19.5	24.8
3	1	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	231.7	8.2	63.9	15.2S	19.5	27.9
2	2	Leg	A500	gr.CS	Tension	9	1.500	A325X	3.600	N/A	20.8	838.9	865.8	1148.0TN/A	N/A	N/A
2	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	169.1	26.7	109.5	60.7S	51.2	46.6
2	2	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	170.2	26.4	109.5	60.7S	51.2	46.6
2	2	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	141.1	19.2	54.8	15.2S	19.5	24.8
2	2	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	187.5	10.9	54.8	15.2S	19.5	24.8
2	2	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	243.5	7.4	63.9	15.2S	19.5	27.9
2	1	Leg	A500	gr.CS	Tension	7	1.500	A325X	3.600	N/A	20.8	838.9	865.8	892.9T	N/A	N/A
2	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	175.1	24.9	109.5	60.7S	51.2	46.6
2	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	178.4	24.0	109.5	60.7S	51.2	46.6
2	1	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	147.7	17.5	54.8	15.2S	19.5	24.8
2	1	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	192.2	10.3	54.8	15.2S	19.5	24.8
2	1	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	254.7	6.8	63.9	15.2S	19.5	27.9
1	2	Leg	A500	gr.CS	Tension	9	1.500	A325X	3.600	N/A	20.8	838.9	865.8	1148.0TN/A	N/A	N/A
1	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.394	157.1	35.5	127.9	60.7S	53.7	53.8
1	2	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.394	161.0	29.4	109.5	60.7S	53.7	49.0
1	2	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.394	154.2	16.1	54.8	15.2S	19.5	24.8
1	2	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.394	197.1	9.8	54.8	15.2S	19.5	24.8
1	2	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.394	228.8	12.4	91.3	30.4S	30.7	34.3
1	1	Leg	A500	gr.CS	Tension	8	1.500	A325X	3.600	N/A	20.8	838.9	865.8	1020.4TN/A	N/A	N/A
1	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	162.6	33.2	127.9	60.7S	51.2	51.2
1	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	166.1	27.7	109.5	60.7S	51.2	46.6
1	1	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	160.7	14.8	54.8	15.2S	19.5	24.8
1	1	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	202.0	9.4	54.8	15.2S	19.5	24.8
1	1	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	238.5	11.4	91.3	30.4S	19.5	21.8



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Contract: 245169

Project: 350 FT RTL TOWER

Date and Time: 1/17/2024 9:19:49 AM

Revision: 1

Site: KY0106 LV ETNA- KY

Engineer: AS

Section N: LEG REACTION DATA

Load Combination	Max Envelope				
Wind Direction	Maximum				
	Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
	783.25	651.95			73.31



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Contract: 245169

Project: 350 FT RTL TOWER

Date and Time: 1/17/2024 9:19:49 AM

Revision: 1

Site: KY0106 LV ETNA- KY

Engineer: AS

Section O: TOWER FOUNDATION DATA

Load Combination Max Envelope
 Wind Direction Maximum

Axial Load (Kips)	Shear Load-X (Kips)	Shear Load-Z (Kips)	Total Shear (Kips)	Moment-X (Kipsft)	Moment-Y (Kipsft)	Moment-Z (Kipsft)	Total Moment (Kipsft)
121.16	61.09	105.82	122.18	21041.69	-3.91	-12147.01	24296.14
121.16	61.09	105.82	122.18	21041.69	-3.91	-12147.01	24296.14

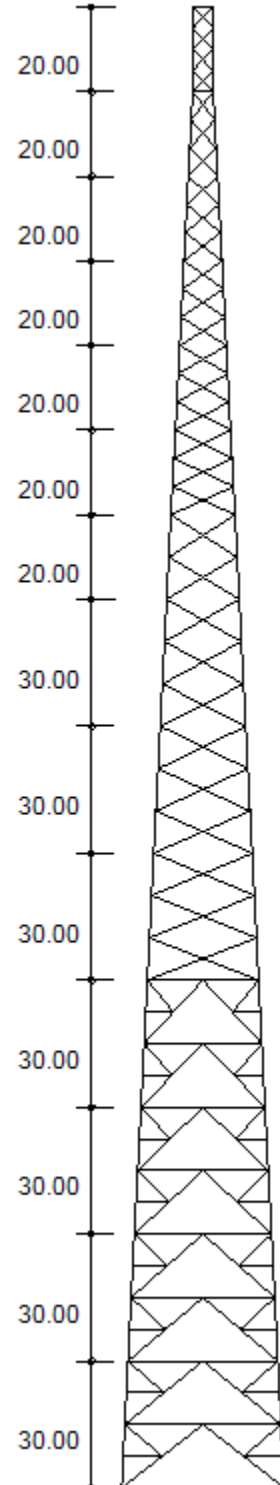
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Contract: 245169
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Date and Time: 1/17/2024 9:19:49 AM

Revision: 1
Site: KY0106 LV ETNA- KY
Engineer: AS

DESIGN SPECIFICATION

Design Standard: ANSI/TIA-222-G-2005 Add.2
Ultimate Design Wind Speed (No Ice) = 115.0 (mph)
Nominal Design Wind Speed (No Ice) = 89.1 (mph)
Basic Wind Speed (With Ice) = 30.0 (mph)
Design Ice Thickness = 0.75 (in)
Structure Class = II
Exposure Category = C
Topographic Category = 1

Sct.	Length (ft)	Top W. (in)	Bot Width (in)
1	30.00	425.54	461.54
2	30.00	389.54	425.54
3	30.00	351.81	389.54
4	30.00	315.81	351.81
5	30.00	279.81	315.81
6	30.00	241.97	279.81
7	30.00	205.97	241.97
8	20.00	181.97	205.97
9	20.00	156.24	181.97
10	20.00	132.24	156.24
11	20.00	108.24	132.24
12	20.00	83.32	108.24
13	20.00	58.40	83.32
14	20.00	57.53	58.40



MAXIMUM BASE REACTIONS

Download (Kips) 783.3
Uplift (Kips) 651.9
Shear (Kips) 73.3

Customer: TOWERCO LLC
 Project: 350 FT RTL TOWER
 Site: KY0106 LV ETNA, KY
 Engr. File: 245169
 Build Code: ANSI/TIA-222-H-2016



Mat Foundation

ver.3.0.4

Design Parameters

Description	Load Case					Service
	1	2	3	4	5	
Total Moment, ft-kips	24,295.91	24,296.14	2,978.37	825.31	824.82	7,014.98
Total Shear, kips	122.13	122.18	14.02	3.27	3.27	35.20
Total Tower Wt, kips	161.52	121.16	369.24	161.41	121.06	134.52
Max. Uplift, kips	638.50	651.95	.00	.00	.00	155.30
Shear, kips	64.21	64.98	64.98	16.74	16.74	16.74
Max Download, kips	783.25	769.81	212.50	78.58	65.12	255.44
Shear	73.31	72.58	15.17	4.98	4.23	22.96
Soil L.F.	1.20	0.90	1.20	1.20	0.90	1.00
Concrete L.F.	1.20	0.90	1.20	1.20	0.90	1.00

Foundation	
Ht. AGL, ft	0.50
Depth, ft.	5.25
Tower	
Face Width, ft	38.46
Offset, in	69.00
Soil	
Blow Count	N/A
Inplace Unit Wt, pcf	110.00
Submerged Unit Wt, pcf	60.00
Friction Angle, ϕ , deg.	30.00
Cohesion, ksf	N/A
Uplift Angle, deg.	30.00
Water Depth, ft	None
Ult Bearing Capacity, ksf	7.00

Mat	
Thickness, ft	2.25
Width, ft	46.00
EA, in	21.00
Batter, in/ft	0.00

Pier	
Height, ft	3.50
Diameter, ft	4.00
No. Piers	3
Shape	Round

Anchor Bolts	
Diameter, in	1.5000
No.	9
Length, in	74.00
Bolt Circle, in	20.00
Projection, in	9.00

Pocket	
Diameter, in	N/A
Thickness, ft	N/A

Concrete	
28 Day Strength, ksi	4.50
Dry Unit Wt, pcf	150.00
Wet Unit Wt, pcf	88.00

Rebar Fy	
Vertical, ksi	60.00
Circular, ksi	60.00
Horizontal, ksi	60.00

Results

ϕM_N – Parallel Axis 28,676.00 ft-kips
 ϕM_N – Diagonal Axis 30,811.53 ft-kips
 Moment – Interaction Ratio 0.898
 ϕV_N – Lateral Load 367.23 kips
 Lateral Load – Interaction Ratio 0.333

Final Mat Dimension : 46.00 x 46.00 x 2.25 ft. thick w/ (3) 4.00 ft. Dia. Piers

Final Pocket Dimension : Pockets not required

Total Volume of Concrete : 181.2 yd³

Designed By: AS
 Date: 17 January, 2024 @ 09:26 AM

ENGINEERING
 CHECKED BY: SY
 01/17/2024

Customer: TOWERCO LLC
 Project: 350 FT RTL TOWER
 Site: KY0106 LV ETNA, KY
 Engr. File: 245169
 Build Code: ANSI/TIA-222-H-2016



Mat Foundation

ver.3.0.4

OTM Capacity

Controlling Load Case: 2 [Wind w/Min. Dead Load]
 Foundation Width = 46.00 ft
 $M_U = 25,737.6$ ft-kips

	ϕM_N , ft-kips	x, ft	N	σ_{ur}
Parallel	28,676.0	5.874	0.128	7.00
Diagonal	30,811.5	16.437	0.253	7.00

$\phi M_N = 28,676.00$ ft-kips IRatio = 0.898
 $\phi V_N = 367.23$ kips IRatio = 0.333

Mat Design

$\gamma_c = 127.14$ pcf

Exterior Slab	x, ft	N	σ_R , ksf	P_s , kips	P_{su} , kips	Moment, ft-kips/ft		Shear, kips/ft	
						DownLoad Side	Uplift Side	Download Side	Uplift Side
Parallel	9.908	0.215	3.11	19.49	0.00	25.90	10.06	11.40	4.03
Diagonal	21.722	0.334	3.00	19.49	0.00	160.55	59.63	26.08	10.10

Interior Slab	Moment, ft-kips/ft			Shear, kips/ft		
	DownLoad Side	Uplift Side	Download Side	Uplift Side	Soil Pressure Termination	
	46.98	119.34	9.01	10.66	8.96	

Punching Shear	Download			Uplift			Description
	Interior	Edge	Corner	Interior	Edge	Corner	
b_o , ft	21.51	18.30	15.30	18.85	16.97	14.63	2-Way Shear
V_{su} , psi	149.10	182.23	227.28	140.99	162.52	197.99	
ϕV_c , psi	228.08	228.08	228.08	228.08	228.08	228.08	
IR	0.65	0.80	1.00	0.62	0.71	0.87	
M_{ut} , ft-kips	154.0			136.5			Moment transfer to slab
B_e , ft	9.1			8.8			
M_u , ft-kips/ft	16.8			15.6			
Edge Distances: a = 6.55 ft. b = 3.77 ft. c = 6.15 ft.							

Summary	Max. Value	Utilization
Slab Moment, ft-kips/ft	160.55	0.983
Slab Shear, kips/ft	26.08	0.866
Punching Shear, psi	227.28	0.996
Soil Bearing Required, σ_{UR} , ksf	4.14	0.592

Mat Reinforcement	
Min. Steel Area (Strength)	1.616 in ² /ft.
Min. Steel Area (Temperature)	.292 in ² /ft.
Steel Strain Actual	0.014
Minimum Steel Strain Required	0.005

76 - #9 Horizontal bars equally spaced @7.28 in., each way, top and bottom, total of 304, $A_s = 1.651$ in²/ft

Designed By: AS
 Date: 17 January, 2024 @ 09:26 AM

Customer: TOWERCO LLC
Project: 350 FT RTL TOWER
Site: KY0106 LV ETNA, KY
Engr. File: 245169
Build Code: ANSI/TIA-222-H-2016



Mat Foundation

ver.3.0.4

Pier Design

Controlling Load Case: 1 [Wind w/Max. Dead Load]

C = 783.25 kips	Vc = 73.31 kips	Mc = 256.59 ft-kips
T = 638.50 kips	Vt = 64.21 kips	Mt = 224.74 ft-kips
Fy = 60.00 ksi	Fyt = 60.00 ksi	L.F. = 1.00
H = 48.00 in.	Ds = 39.00 in.	F'c = 4.50 ksi
U = 1.00	Irs = Round	

*** NOTE: Pier cross section is Round ***

SUMMARY OF ANALYSIS

Minimum area of steel required	= 18.208 in ²	(Rhomin = 0.0101)
Area of steel provided.	= 20.268 in ²	(Rhoactual = 0.0112)
Maximum steel area limit	= 144.765 in ²	(Rhomax = 0.0800)

(16) #10 Vertical Bars equally spaced w/ #4 Circular Ties @ 3" on center.

CIRCULAR TIE DATA

Size	Spacing
3	5.5
4	10.0
5	12.0
6	12.0

Use spacing shown or maximum tie spacing specified in ACI 318, Section 7.10.5 for compression reinforcement, whichever is less.

DEVELOPMENT LENGTH MODIFIERS FOR BAR DEVELOPMENT

Modifier for tension development = 1.000
Modifier for compression development = 0.195
REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS, (12 in. min.)

Designed By: AS
Date: 17 January, 2024 @ 09:26 AM

Drilled Pier Analysis

```

*****
** WIGGINS METHOD **
*****
** DETERMINE MAXIMUM LATERAL SOIL PRESSURE **
** AND MAXIMUM MOMENT IN THE SHAFT FOR **
** A DRILLED PIER FOUNDATION **
***** Wed Jan 17 09:50:01 2024 *****
Ver. 2.3 NT
    
```

FILE NO.- 245169
 ENGR.- AS
 DESCR.- TOWERCO LLC 350 FT RTL TOWER K

FORMULAS USED

$$S1 = \frac{6 \cdot P \cdot (1+N)}{D \cdot L \cdot (1-N) \cdot (1-N)}$$

$$S2 = \frac{(N+3) \cdot (N+3) \cdot S1}{8 \cdot (N+1) \cdot (N+2)}$$

$$K = \frac{1 - (N \cdot N)}{2 \cdot (2+N)}$$

$$Y = \frac{L \cdot (1-K) - NL}{2}$$

$$M = P \cdot (NL + 5/8 \cdot Y)$$

$$V = \frac{S1 \cdot D \cdot K \cdot L}{2} \text{ or } P \text{ whichever is greater}$$

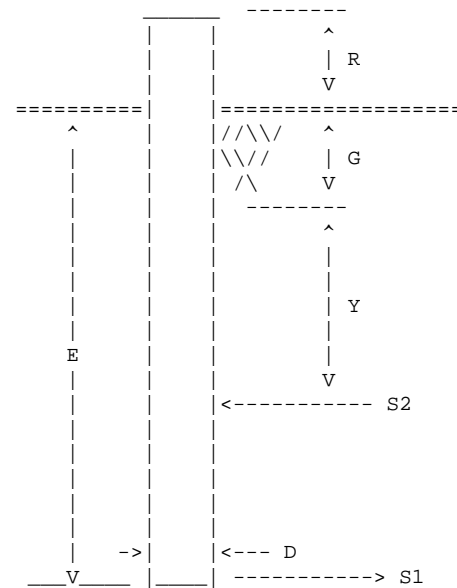
$$L = (MA/P) + R + E$$

$$NL = (MA/P) + R + G$$

$$N = NL / L$$

$$SP1 = S1 / E$$

$$SP2 = S2 / (Y + G)$$



Diameter of Pier = D = 8.00 ft
 Projection Above Grade = R = .50 ft
 Embedment Depth = E = 37.00 ft
 Depth of Soil Ignored = G = 2.00 ft

Equivalent Length of Pier = L = 37.50 ft
 Length for NO Soil Resistance = NL = 2.50 ft
 Applied Moment at Top of Pier = MA = .00 ft-k
 Shear at Top of Pier = P = 73.31 kips

MAXIMUM LATERAL SOIL PRESSURES

MAXIMUM VALUES IN SHAFT

K = .2409
 Y = 12.98 ft
 S1 = 1.795 ksf
 S2 = .957 ksf
 SP1 = 49 psf/ft
 SP2 = 64 psf/ft

M = 778.18 ft-k
 V = 73.31 kips

Drilled Pier Analysis

245169
TOWERCO LLC 350 F

**
** COMPARISION DATA **
**

BROMS ----->

SAND
PHI = 30.0 degrees
DENSITY = 100.00 pcf
E = 15.35 ft
Max. M = 495.18 ft-k
Max. V = 191.91 kips
Ls = 12.139 ft

CLAY
C = 1.00 ksf
E = 24.53 ft
Max. M = 991.02 ft-k
Max. V = 188.88 kips

EIA REV. E NORMAL SOIL -----> E = 14.33 ft

EIA REV. F NORMAL SOIL -----> E = 17.91 ft

SHAFT REINFORCING PROGRAM VER. 91.7

=====

DESIGNED BY: AS
 ENG. FILE NO.: 245169
 DATE: 01/17/24

CUSTOMER: TOWERCO LLC
 DESCRIPTION: 350 FT RTL TOWERKY0106 LV ETNA, KY

INPUT DATA

=====

C = 783.25 Kips	Vc = 73.31 Kips	Mc = 778.18 Ft-K
T = 651.95 Kips	Vt = 73.31 Kips	Mt = 778.18 Ft-K
Fy = 60.00 Ksi	Fyt = 60.00 Ksi	L.F. = 1.00
H = 96.00 In.	Ds = 84.00 In.	F'c = 4.50 Ksi
U = 1.00	Irs = 1	

*** SHAFT CROSS SECTION IS ROUND ***

SUMMARY OF ANALYSIS

=====

Minimum area of steel req'd. = 36.19 sq.in. (Rhomin = 0.0050)
 Maximum steel area limit = 579.06 sq.in. (Rhomax = 0.0800)

CIRCULAR TIE DATA

=====

$V_u < 0.85 \cdot V_c / 2$, shear reinforcement is not required.

Use maximum tie spacing specified in A.C.I. 318-83,
 Section 7.10.5 for compression reinforcement.

DEVELOPMENT LENGTH MODIFIERS FOR TENSION AND COMPRESSION BAR DEVELOPMENT

=====

DLMT = MODIFIER FOR TENSION DEVELOPMENT =	1.000
DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT =	.313
REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS (12 in. min.)	
DLMT = MODIFIER FOR TENSION DEVELOPMENT =	1.000
DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT =	.339
REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS (12 in. min.)	

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



MICHAEL LASSITER, SE, PE
KENTUCKY LICENSE NO. 24895

1/26/24

DRAWN BY: MEA
CHECKED BY: YR
APP'D: MLL
PROJECT NO: STR24-20762-08

SUBMITTALS	
DATE	DESCRIPTION
1/26/24	REVIEW
	ISSUED BY
	ME A

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SITE NAME:
LV ETNA

SITE ADDRESS:
YANCEY ROAD
EUBANK, KY 42567

SITE ID:
KY0106

SHEET TITLE
DRILLED SHAFT
FOUNDATION DESIGN

SHEET NUMBER
F-1

PARTS LIST - DRILLED SHAFT (EACH)

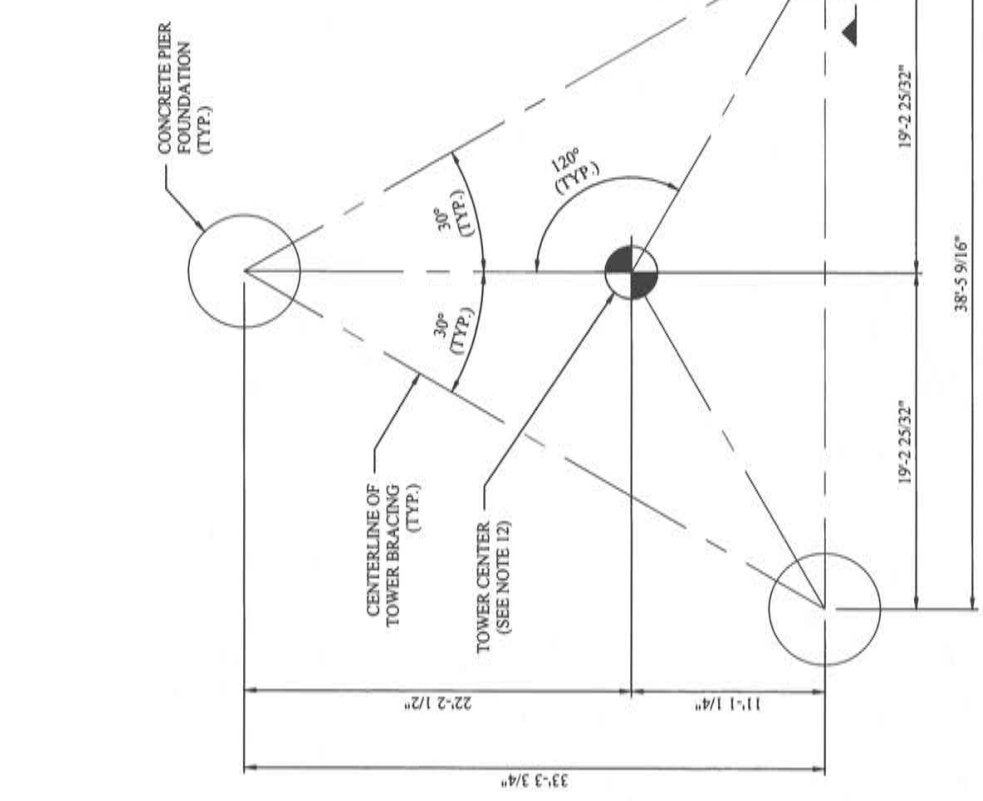
MARK NO.	DESCRIPTION	SIZE	QTY.
CONCRETE	4500-PSI MIX - LARGEST COURSE AGGREGATE SHALL BE 3/4-IN OR LESS	27.7 CY	1
VERT-01	VERTICAL REBAR	#9 ASTM A615-60 X 37'-6"	20
TIE-01	REBAR TIE (TOP TIES)	#5 ASTM A615-60 X 15'-8"	2
TIE-02	REBAR TIE (BELOW ANCHORAGE)	#5 ASTM A615-60 X 16'-9"	34
HORIZ-01	HORIZONTAL REBAR	#3 ASTM A615-60 X 5'-8"	12
PIPE	TEMPORARY STEEL PIPE (SEE NOTE 13)	PL 3/8"	1

VERTICAL REBAR SPLICE LENGTH

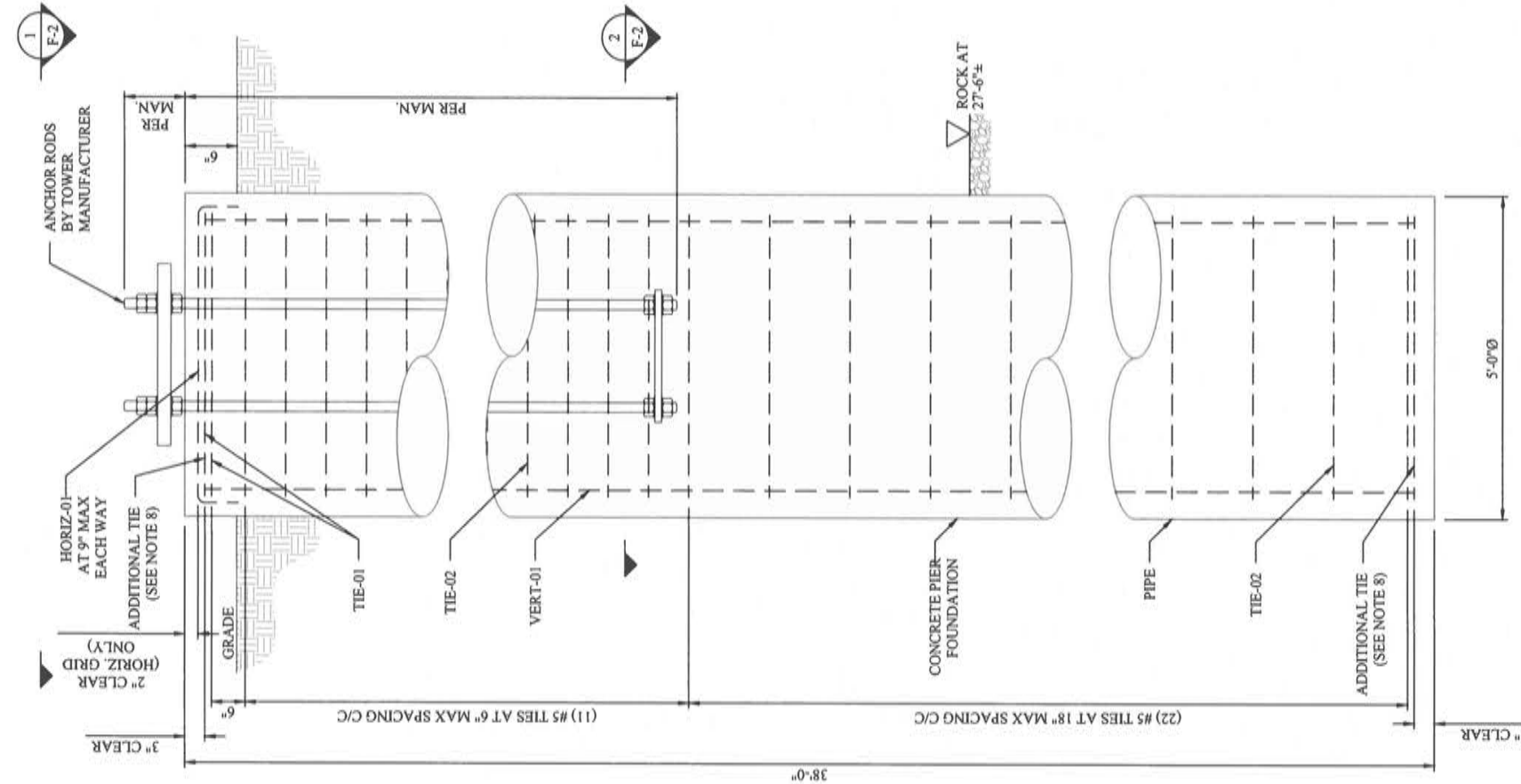
REBAR SIZE	MIN. LAP LENGTH
#8	62"
#9	69"
#10	78"
#11	85"

CONCRETE AIR CONTENT

NOMINAL MAXIMUM AGGREGATE SIZE	TARGET AIR CONTENT
3/8"	7.5%
1/2"	7.0%
3/4"	6.0%



2 FOUNDATION LAYOUT
SCALE: N.T.S.



1 FOUNDATION ELEVATION
SCALE: N.T.S.

- NOTES:**
- CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH OF 4500-PSI.
 - REBAR SHALL CONFORM TO ASTM SPECIFICATION A615.
 - ALL EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1 INCH.
 - SEE GEOTECHNICAL REPORT(S) FOR INSTALLATION REQUIREMENTS
 - REINFORCEMENT SHALL BE 3 INCHES CLEAR FROM EDGES OF CONCRETE.
 - REFER TO CONCRETE AIR CONTENT TABLE FOR TARGET AIR CONTENT PER MAXIMUM AGGREGATE SIZE
 - IF REQUIRED, VERTICAL BARS MAY BE SPLICED. REFER TO VERTICAL REBAR SPLICE LENGTH TABLE. SPLICES SHALL BE STAGGERED FOR ADJACENT BARS TO ALLOW CONCRETE FLOW ABOUT REBAR CAGE.
 - TOP AND BOTTOM TIES TO BE DOUBLE TIES. TOP TIES TO BE HOOKED ON EACH END.
 - GROUND WATER NOT ENCOUNTERED.
 - HORIZ-01 SHALL BE HOOKED 90° EACH END. SEE TYPICAL 90° HOOK DETAILS ON SHEET F-2.
 - FOUNDATION ORIENTATION RELATIVE TO NORTH TO BE PROVIDED BY OTHERS.
 - TEMPORARY STEEL CASING RECOMMENDED TO PREVENT CAVING DURING INSTALLATION (BEND 3/8" PL INTO 5.0-FT DIAMETER). THE PROTECTIVE STEEL CASING SHOULD BE EXTRACTED AS CONCRETE IS PLACED. A HEAD OF CONCRETE SHOULD BE MAINTAINED ABOVE THE BOTTOM OF THE CASING TO PREVENT SOIL AND WATER INTRUSION INTO THE CONCRETE BELOW THE CASING.
 - FOUNDATION DESIGN(S) ARE BASED ON:
 - 14.1. TOWER DESIGN CALCULATIONS BY ROHN DATED JANUARY 17, 2024, PROJECT: 245169 WITH DESIGN CRITERIA:
 - 14.1.1. DESIGN STANDARD / CODE(S):
 - 14.1.1.1. ANSII/A233-G
 - 14.1.1.2. 2015 INTERNATIONAL BUILDING CODE
 - 14.1.1.3. 2018 KENTUCKY BUILDING CODE

- 14.1.2. BASIC WIND SPEED (VULT) OF 115 MPH, NO ICE
 - 14.1.3. BASIC WIND SPEED (V) OF 30 MPH, 0.75-IN RADIAL ICE
 - 14.1.4. STRUCTURE CLASSIFICATION AND RISK CATEGORY "II"
 - 14.1.5. EXPOSURE CATEGORY "C"
 - 14.1.6. TOPOGRAPHY CATEGORY "I"
- REACTIONS AND ANCHOR BOLT LAYOUT FROM DESIGN DRAWINGS:
 - 13.2.1. MOMENT (TOTAL) = 24,296.1 KIP-FT (FACTORED, DESIGN)
 - 13.2.2. SHEAR (TOTAL) = 122.2 KIP (FACTORED, DESIGN)
 - 13.2.3. AXIAL (TOTAL) = 134.5 KIP (FACTORED, DESIGN)
 - 13.2.4. DOWNLIFT (PER LEG) = 783.3 KIP (FACTORED, DESIGN)
 - 13.2.5. UPLIFT (PER LEG) = 652.0 KIP (FACTORED, DESIGN)
 - 13.2.6. SHEAR (PER LEG) = 73.3 KIP (FACTORED, DESIGN)
 - 13.2.7. (9) 1 1/2"Ø X 74" ANCHOR RODS EQUALLY SPACED ON 20"Ø B.C. WITH MINIMUM EMBEDMENT OF 65", PER LEG.
- GEOTECHNICAL INVESTIGATION BY POWER OF DESIGN DATED JUNE 9, 2023, PROJECT NO: 22-134830.
- SUPPLEMENTAL GEOTECHNICAL REPORT BY DELTA OAKS GROUP DATED JANUARY 23, 2024, PROJECT NO: GEO24-20762-05.
- 1.50" DEFLECTION LIMIT CRITERIA AT UNFACTORED DESIGN REACTIONS.
- 0.75" DEFLECTION LIMIT CRITERIA AT UNFACTORED SERVICE REACTIONS.
- SEISMIC DESIGN PARAMETERS:
 - 14.1. ASCE 7-10 DESIGN STANDARD
 - 14.2. SITE CLASS "C"
 - 14.3. SEISMIC DESIGN CATEGORY "B"

DATE	DESCRIPTION	REV	ISSUED BY
1/26/24	REVIEW	0	MEA

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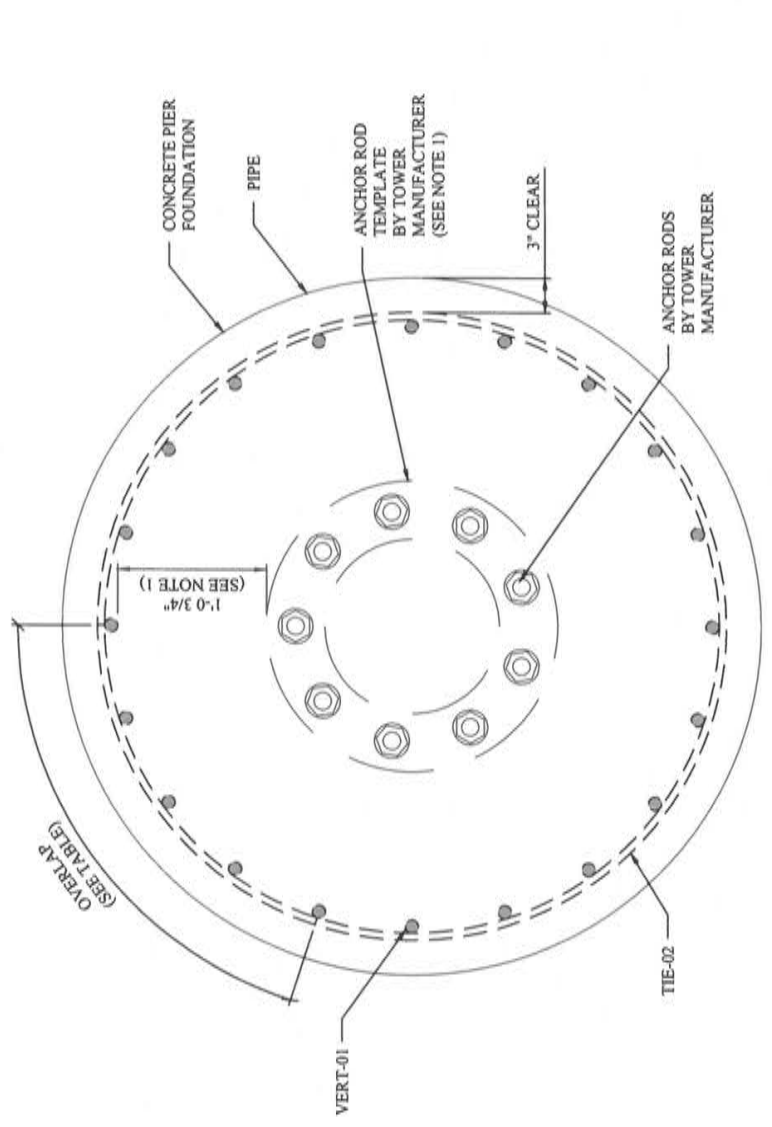
SITE NAME:
LV ETNA

SITE ADDRESS:
YANCEY ROAD
EUBANK, KY 42567

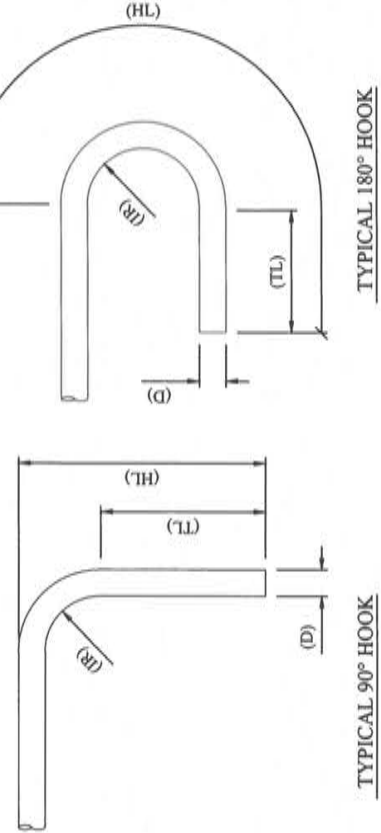
SITE ID:
KY0106

SHEET TITLE:
FOUNDATION SECTION DETAILS

SHEET NUMBER:
F-2



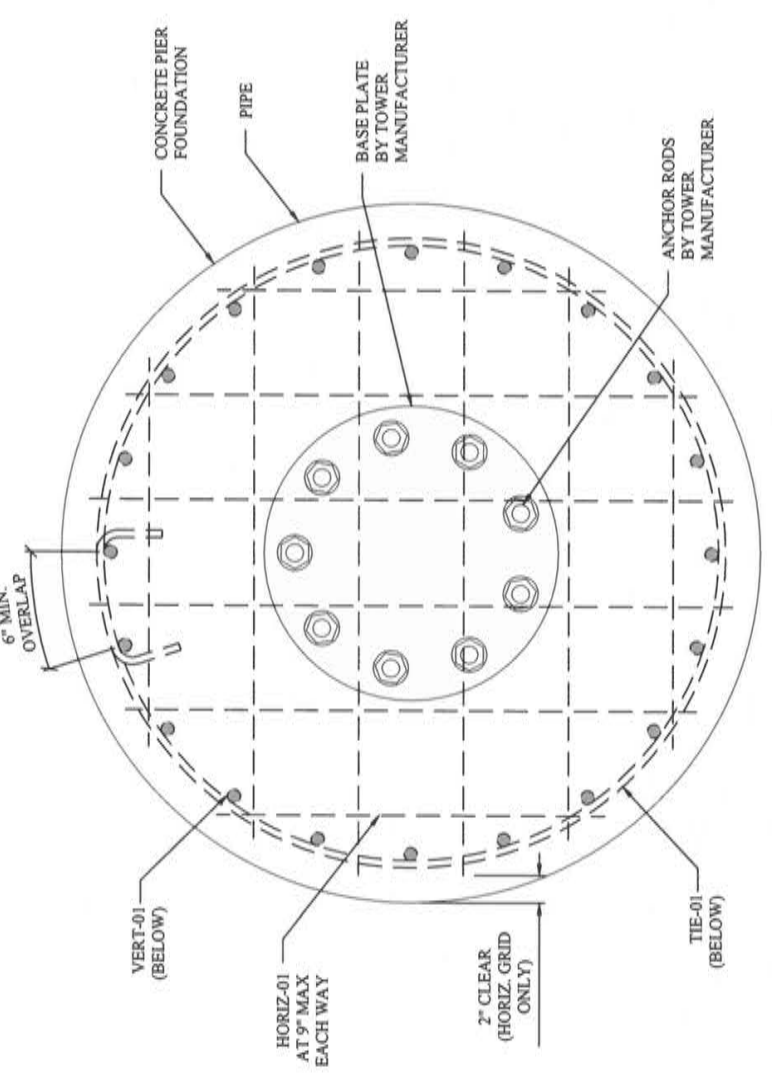
2 FOUNDATION SECTION DETAIL
 F-2 SCALE: N.T.S.



- 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 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 3/8"±	1'-8"	1 1/8"	4 1/2"	6"	3/4"	3"	4 1/8"	3/4"	2 1/2"	7 13/16"
#4 1/2"±	2'-3"	1 1/2"	6"	8"	1"	3"	4 1/2"	1"	2 1/2"	9 9/16"
#5 5/8"±	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"±	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
 F-2 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 PROOFROLLED 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
4904 PROFESSIONAL COURT, SECOND FLOOR
RALEIGH, NC 27609
PHONE: (919) 342-8247
www.deltaoaksgroup.com



MICHAEL LASSITER, SE, PE
KENTUCKY LICENSE NO. 24895
12604

DRAWN BY: MEA

CHECKED BY: YR

APP'D BY: MLL

PROJECT NO: STR34-20762-08

SUBMITTALS		
DATE	DESCRIPTION	REV ISSUED BY
1/26/24	REVIEW	B MEA

THE INFORMATION CONTAINED IN THIS SET OF DOCUMENTS IS PROPRIETARY TO TOWERCO. IT IS TO BE USED ONLY FOR THE PROJECT AND SITE IDENTIFIED HEREIN. NO PART OF THESE DRAWINGS OR ANY PART OF THESE DRAWINGS WITHOUT THE PERMISSION OF THE DELTA OAKS GROUP, PLLC IS PROHIBITED.

SITE NAME:

LV ETNA

SITE ADDRESS:

YANCEY ROAD
EUBANK, KY 42567

SITE ID:

KY0106

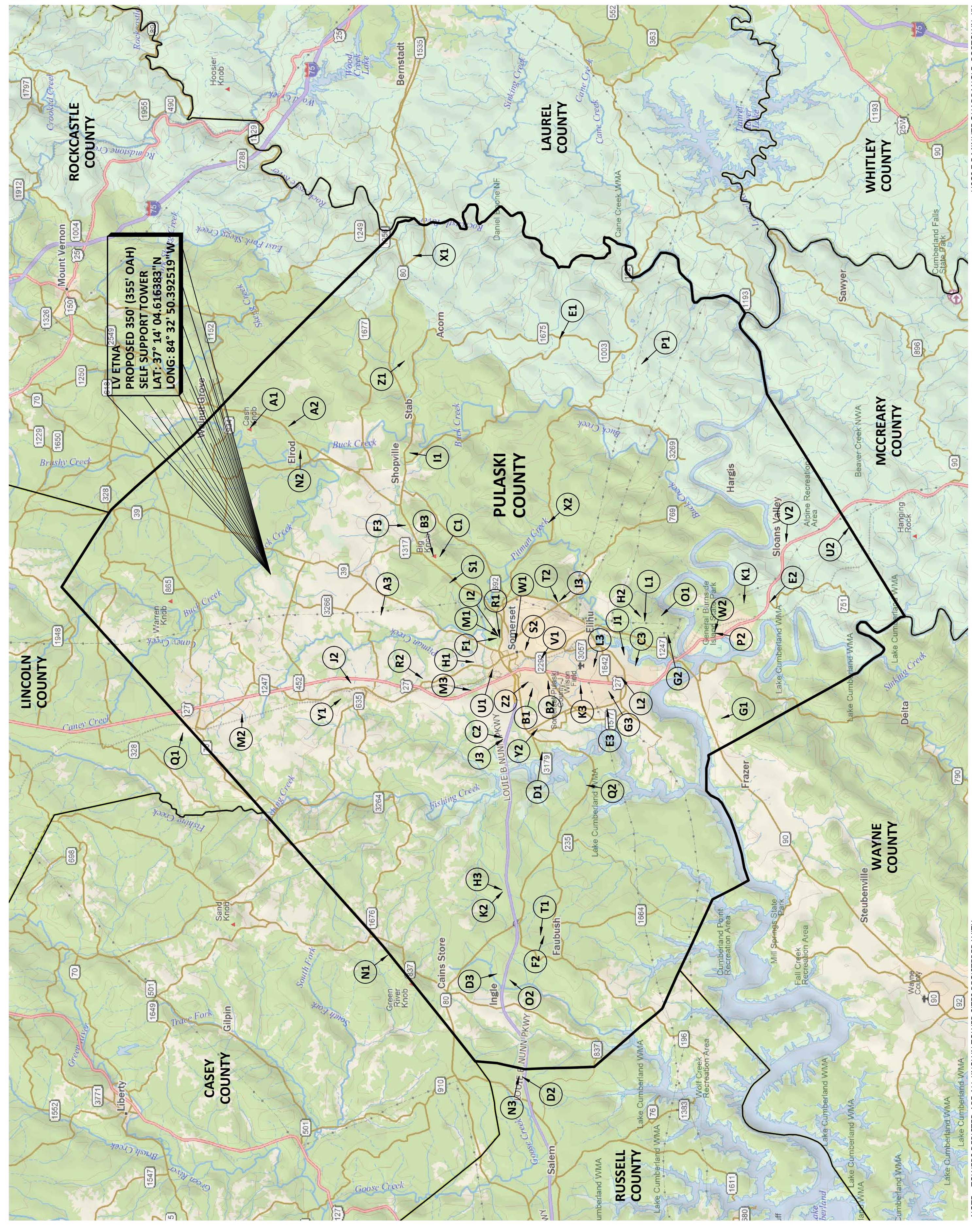
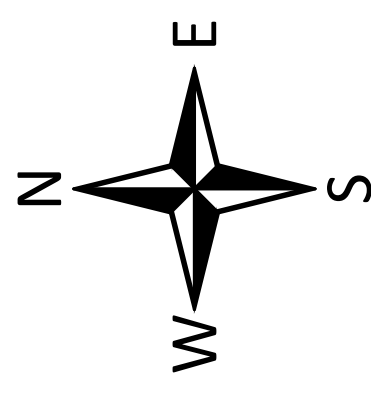
SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-1

PULASKI COUNTY, KENTUCKY VERIZON WIRELESS SITE NAME: LV ETNA



NOTE: TOWERS DEPICTED ARE ALL KNOWN TOWER SITES REGISTERED WITH THE FEDERAL COMMUNICATIONS COMMISSION IN PULASKI COUNTY, KENTUCKY.



EXISTING TOWER LEGEND

A1	FCC REGISTRATION #: 1018905 GLOBAL TOWER, LLC through AMERICAN TOWERS, LLC LAT: 37° 05' 35.3\"/>	B1	FCC REGISTRATION #: 1035924 NORFOLK SOUTHERN CORPORATION LAT: 37° 37' 52.0\"/>	C1	FCC REGISTRATION #: 1042206 GLOBAL TOWER, LLC through AMERICAN TOWERS, LLC LAT: 37° 08' 17.0\"/>	D1	FCC REGISTRATION #: 1043118 VERTICAL BRIDGE CC FIM, LLC LAT: 37° 04' 38.9\"/>	E1	FCC REGISTRATION #: 1043456 SOUTHERN KENTUCKY RURAL ELECTRIC COOPERATIVE CORPORATION LAT: 37° 04' 03.5\"/>	F1	FCC REGISTRATION #: 1043625 CELLULAR PHONE OF KENTUCKY dba = RAMCELL LAT: 37° 06' 10.0\"/>	G1	FCC REGISTRATION #: 1043628 CELLULAR PHONE OF KENTUCKY dba = RAMCELL LAT: 37° 06' 10.0\"/>	H1	FCC REGISTRATION #: 1043674 CAPSTAR RADIO OPERATING COMPANY LAT: 37° 07' 03.0\"/>	I1	FCC REGISTRATION #: 1043675 VERTICAL BRIDGE CC FIM, LLC LAT: 37° 09' 16.0\"/>	J1	FCC REGISTRATION #: 1043676 CAPSTAR RADIO OPERATING COMPANY LAT: 37° 01' 46.6\"/>	K1	FCC REGISTRATION #: 1043677 VERTICAL BRIDGE CC FIM, LLC LAT: 36° 57' 38.0\"/>	L1	FCC REGISTRATION #: 1043977 SBA INFRASTRUCTURES, LLC LAT: 37° 01' 05.0\"/>	M1	FCC REGISTRATION #: 1043979 SPECTRUM MID-AMERICAN, LLC LAT: 37° 06' 13.3\"/>	N1	FCC REGISTRATION #: 1044043 KENTUCKY AUTHORITY FOR EDUCATION TELEVISION dba = WKSO-TV LAT: 37° 10' 03.0\"/>	O1	FCC REGISTRATION #: 1044514 EAST LUCKY POWER LAT: 37° 00' 30.0\"/>	P1	FCC REGISTRATION #: 104797 COMMONWEALTH OF KENTUCKY dba = KY EMERGENCY WARNING SYSTEM KEWS LAT: 37° 01' 13.4\"/>	Q1	FCC REGISTRATION #: 1047763 GLOBAL TOWER, LLC through AMERICAN TOWERS, LLC LAT: 37° 17' 09.6\"/>	R1	FCC REGISTRATION #: 1047989 MOBILE COMMUNICATIONS AMERICA INC. LAT: 37° 06' 10.0\"/>	S1	FCC REGISTRATION #: 1051877 SOMERSET EDUCATIONAL BROADCASTING FOUNDATION LAT: 37° 07' 52.0\"/>	T1	FCC REGISTRATION #: 1203424 GLOBAL TOWER, LLC through AMERICAN TOWERS, LLC LAT: 37° 04' 42.3\"/>	U1	FCC REGISTRATION #: 1204492 EPPERSON AIR CONDITIONING & HEATING LAT: 37° 06' 22.2\"/>	V1	FCC REGISTRATION #: 1208691 NORFOLK SOUTHERN CORPORATION LAT: 37° 04' 40.4\"/>	W1	FCC REGISTRATION #: 1219832 COMMONWEALTH OF KENTUCKY dba = KY EMERGENCY WARNING SYSTEM KEWS LAT: 37° 05' 35.3\"/>	X1	FCC REGISTRATION #: 1229865 GLOBAL TOWER, LLC through AMERICAN TOWERS, LLC LAT: 37° 09' 08.0\"/>	Y1	FCC REGISTRATION #: 1229869 GLOBAL TOWER, LLC through AMERICAN TOWERS, LLC LAT: 37° 11' 39.7\"/>	Z1	FCC REGISTRATION #: 1230266 GLOBAL TOWER, LLC through AMERICAN TOWERS, LLC LAT: 37° 09' 26.4\"/>	A2	FCC REGISTRATION #: 1232562 (GRANTED) HEMPHILL CORPORATION LAT: 37° 13' 27.2\"/>	B2	FCC REGISTRATION #: 1230577 SBA PROPERTIES, LLC LAT: 37° 04' 26.3\"/>	C2	FCC REGISTRATION #: 1231891 SBA INFRASTRUCTURES, LLC LAT: 37° 05' 59.8\"/>	D2	FCC REGISTRATION #: 1232264 SBA INFRASTRUCTURES, LLC LAT: 37° 05' 19.7\"/>	E2	FCC REGISTRATION #: 1232715 SBA INFRASTRUCTURES, LLC LAT: 36° 56' 43.9\"/>	F2	FCC REGISTRATION #: 1250130 FCC REGISTRATION #: 1250130 FCC REGISTRATION #: 1250130 LAT: 37° 04' 36.2\"/>	G2	FCC REGISTRATION #: 1234158 EAST KENTUCKY POWER COOPERATIVE, INC. LAT: 37° 00' 16.3\"/>	H2	FCC REGISTRATION #: 1234225 SBA INFRASTRUCTURES, LLC LAT: 37° 01' 12.7\"/>	I2	FCC REGISTRATION #: 1235212 GLOBAL TOWER, LLC through AMERICAN TOWERS, LLC LAT: 37° 06' 12.0\"/>	J2	FCC REGISTRATION #: 1237226 EAST KENTUCKY POWER COOPERATIVE, INC. LAT: 37° 11' 19.3\"/>	K2	FCC REGISTRATION #: 1247464 SBA INFRASTRUCTURES, LLC LAT: 37° 06' 03.7\"/>	L2	FCC REGISTRATION #: 1250175 CELLO PARTNERSHIP LAT: 37° 01' 13.4\"/>	M2	FCC REGISTRATION #: 1250182 CELLO PARTNERSHIP LAT: 37° 15' 04.9\"/>	N2	FCC REGISTRATION #: 1250183 CELLO PARTNERSHIP LAT: 37° 13' 03.8\"/>	O2	FCC REGISTRATION #: 1250184 CELLO PARTNERSHIP LAT: 37° 05' 46.4\"/>	P2	FCC REGISTRATION #: 1251434 CELLO PARTNERSHIP LAT: 36° 58' 40.4\"/>	Q2	FCC REGISTRATION #: 1251910 CELLO PARTNERSHIP LAT: 37° 03' 04.7\"/>	R2	FCC REGISTRATION #: 1253989 CELLO PARTNERSHIP LAT: 37° 08' 48.9\"/>	S2	FCC REGISTRATION #: 1291343 (GRANTED) OUTREACH FOR JESUS LAT: 37° 05' 12.3\"/>	T2	FCC REGISTRATION #: 1260416 SBA TOWERS III, LLC LAT: 37° 04' 06.8\"/>	U2	FCC REGISTRATION #: 1260689 SBA TOWERS III, LLC LAT: 36° 55' 58.6\"/>	V2	FCC REGISTRATION #: 1260939 SBA TOWERS III, LLC LAT: 36° 55' 10.2\"/>	W2	FCC REGISTRATION #: 1260942 SBA TOWERS III, LLC LAT: 36° 58' 40.0\"/>	X2	FCC REGISTRATION #: 1263386 CELLO PARTNERSHIP LAT: 36° 55' 25.1\"/>	Y2	FCC REGISTRATION #: 1264631 F.T.G. BROADCASTING, INC. LAT: 37° 04' 50.6\"/>	Z2	FCC REGISTRATION #: 1300944 (GRANTED) CITY OF SOMERSET LAT: 37° 05' 06.4\"/>	A3	FCC REGISTRATION #: 1272282 CELLO PARTNERSHIP LAT: 37° 10' 16.6\"/>	B3	FCC REGISTRATION #: 1279127 GLOBAL TOWER, LLC through AMERICAN TOWERS, LLC LAT: 37° 08' 25.1\"/>	C3	FCC REGISTRATION #: 1289486 US ARMY CORPS OF ENGINEERS LAT: 37° 01' 24.6\"/>	D3	FCC REGISTRATION #: 1289960 AMERICAN TOWERS, LLC LAT: 37° 05' 13.8\"/>	E3	FCC REGISTRATION #: 1303154 RURAL CELLULAR CORPORATION LAT: 37° 02' 20.5\"/>	F3	FCC REGISTRATION #: 1312272 SBA TOWERS IX, LLC LAT: 37° 09' 22.7\"/>	G3	FCC REGISTRATION #: 1314542 NEW CINGULAR WIRELESS PCS, LLC LAT: 37° 02' 18.3\"/>	H3	FCC REGISTRATION #: 1316046 (GRANTED) UNIT TOWERS LLC LAT: 37° 06' 00.8\"/>	I3	FCC REGISTRATION #: 1316984 (GRANTED) UNIT TOWERS LLC LAT: 37° 04' 00.1\"/>	J3	FCC REGISTRATION #: 1316988 (GRANTED) UNIT TOWERS LLC LAT: 37° 05' 58.3\"/>	K3	FCC REGISTRATION #: 1317834 NEW CINGULAR WIRELESS PCS, LLC LAT: 37° 09' 16.7\"/>	L3	FCC REGISTRATION #: 1319263 (GRANTED) NEW CINGULAR WIRELESS PCS, LLC LAT: 37° 02' 49.6\"/>	M3	FCC REGISTRATION #: 1321398 (GRANTED) RURAL CELLULAR CORPORATION LAT: 37° 07' 05.7\"/>	N3	FCC REGISTRATION #: 1318405 (GRANTED) UNIT TOWERS LLC LAT: 37° 05' 25.3\"/>
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REV.	DATE	DESCRIPTION
A	4.7.23	ISSUED FOR REVIEW

SITE INFORMATION:
LV ETNA
YANCEY ROAD
EUBANK, KY 42567
PULASKI COUNTY

TAX PARCEL NUMBER:
086-0-0-42

PROPERTY OWNER:
SPENCER LOVELESS &
GLENN E. LOVELESS
2530 TEXAS SCHOOL ROAD
EUBANK, KY 42567

SOURCE OF TITLE:
TRACT 3 OF
DEED BOOK 770, PAGE 412

POD NUMBER: 22-134826
DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 8.25.22
PLAT DATE: 4.7.23

SHEET TITLE:
TOWER GRID MAP

SHEET NUMBER: (1 page)
C-1

PREPARED BY:
POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:



Archive Search Results Form 7460-1 for ASN 2023-ASO-23317-OE

Overview				
Study (ASN):	2023-ASO-23317-OE			
Prior Study:				
Status:	Determined			
Letters:	Determination			
Received Date:	07/17/2023			
Entered Date:	07/17/2023			
Completion Date:	11/01/2023			
Expiration Date:	05/01/2025			
Map:	View Map			
Supplemental Form 7460-2: Please login to add a Supplemental Form 7460-2.				
Sponsor Information				
Sponsor:	TAG Towers, LLC			
Attention Of:	David Ginter			
Address:	108 Forbes Court			
Address2:	Suite 1			
City:	Richmond			
State:	KY			
Postal Code:	40475			
Country:	US			
Phone:	859-544-5000			
Fax:				
Sponsor's Representative Information				
Representative:	TAG Towers, LLC			
Attention Of:	David Ginter			
Address:	108 Forbes Court			
Address2:	Suite 1			
City:	Richmond			
State:	KY			
Postal Code:	40509			
Country:	US			
Phone:	859-544-5000			
Fax:				
Construction Info				
Notice Of:	CONSTR			
Duration:	PERM (Months: 0 Days: 0)			
Work Schedule:				
Date Built:				
Structure Summary				
Structure Type:	Antenna Tower			
Structure Name:	Mt. Vernon East			
FCC Number:				
Structure Details				
Latitude (NAD 83):	37° 19' 32.58" N			
Longitude (NAD 83):	84° 15' 28.77" W			
Horizontal Datum:	NAD 83			
Survey Accuracy:	1A			
Marking/Lighting:	Dual-red and medium intensity			
Other Description:				
Current Marking/Lighting:	N/A Proposed Structure			
Current Marking/Lighting Other Description:				
Name:				
City:	Mt Vernon			
State:	KY			
Nearest County:	Rockcastle			
Nearest Airport:	No Airport within 12NM			
Distance to Structure:				
On Airport:	No			
Direction to Structure:				
Description of Location:	To be located off of Frosty Hollow Road in Mt Vernon KY			
Description of Proposal:	Wireless telecom Self-support tower			
Height and Elevation				
	Proposed	DNE	DET	
Site Elevation:	1201			
Structure Height:	305	0	305	
Total Height (AMSL):	1506	0	1506	
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	2000	W
614	698	MHz	1000	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
3700	3980	MHz	3280	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.
 2022-ASO-37327-OE

Issued Date: 04/25/2023

Network Regulatory
 Cellco Partnership
 5055 North Point Pkwy
 NP2NE Network Engineering
 Alpharetta, GA 30022

**** 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 LV Etna - B
 Location: Eubank, KY
 Latitude: 37-14-04.61N NAD 83
 Longitude: 84-32-50.39W
 Heights: 1078 feet site elevation (SE)
 355 feet above ground level (AGL)
 1433 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:

Emissions from this site must be in compliance with the parameters set by collaboration between the FAA and telecommunications companies and reflected in the FAA 5G C band compatibility evaluation process (such as power, frequencies, and tilt angle). Operational use of this frequency band is not objectionable provided the Wireless Providers (WP) obtain and adhere to the parameters established by the FAA 5G C band compatibility evaluation process. **Failure to comply with this condition will void this determination of no hazard.**

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 M, Obstruction Marking and Lighting, a med-dual system-Chapters 4,8(M-Dual),&15.

Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Air Missions (NOTAM) can be issued. As soon as the normal operation is restored, notify the same number.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be e-filed any time the project is abandoned or:

- At least 10 days prior to start of construction (7460-2, Part 1)
- Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

This determination expires on 10/25/2024 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, effective 21 Nov 2007, 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 (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-ASO-37327-OE.

Signature Control No: 556514969-582619621
Angelique Eersteling
Technician

(DNE)

Attachment(s)

Case Description
Frequency Data
Map(s)

cc: FCC

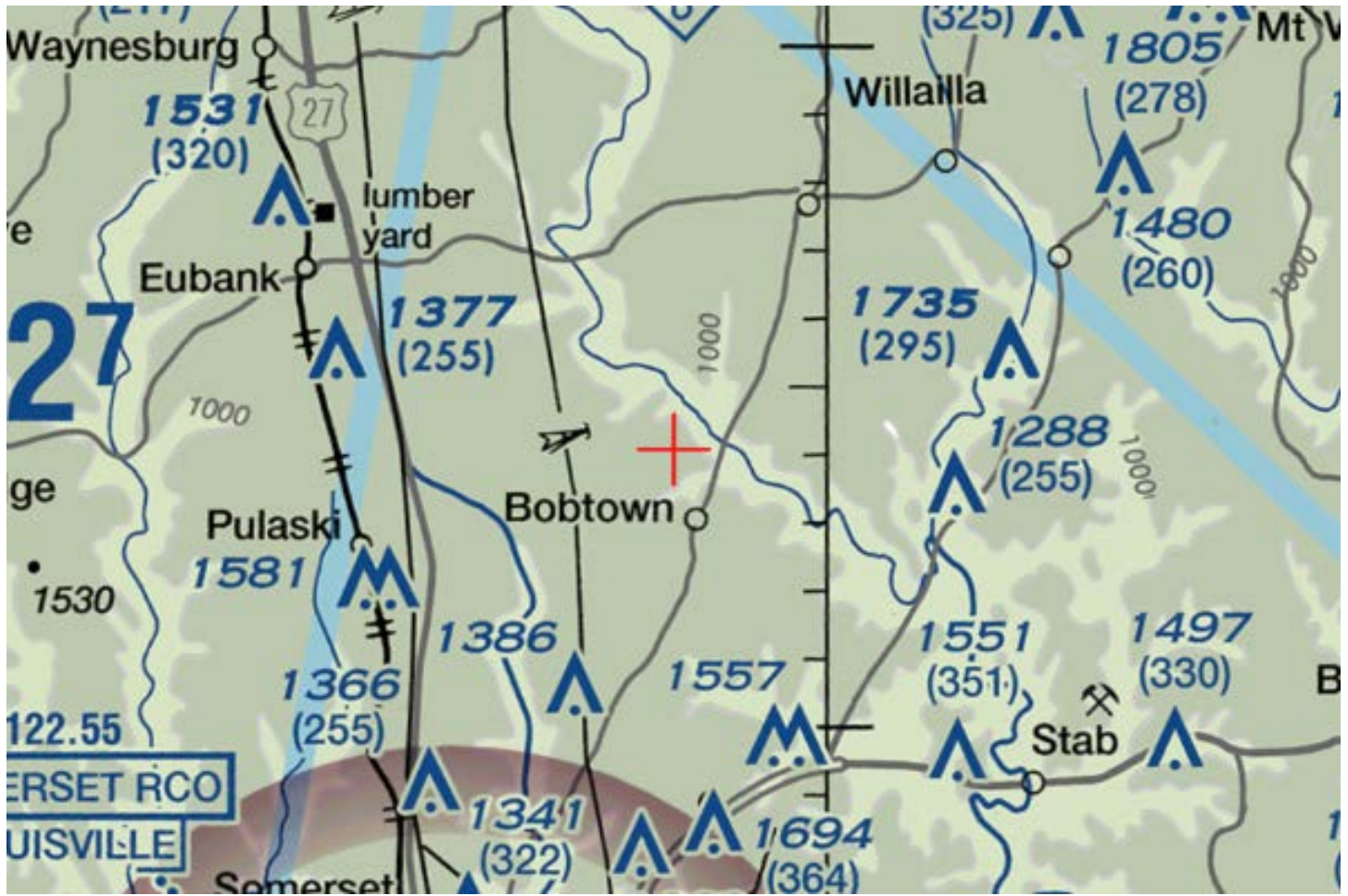
Case Description for ASN 2022-ASO-37327-OE

Propose 355ft Antenna Tower. Emissions from this site will adhere to the parameters set by collaboration between the FAA and telecommunications companies and reflected in the FAA 5G C band compatibility evaluation process. If M&L req. request dual red & med intensity. Questions Michele W.

Frequency Data for ASN 2022-ASO-37327-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	2000	W
614	698	MHz	1000	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
3700	3980	MHz	3280	W







APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

JURISDICTION

602 KAR 50:030

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

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

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

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

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

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

INSTRUCTIONS

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

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

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

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

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

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

PENALTIES

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



KENTUCKY TRANSPORTATION CABINET
KENTUCKY AIRPORT ZONING COMMISSION

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Verizon		PHONE 303-829-0076	FAX	KY AERONAUTICAL STUDY #	
ADDRESS (street) 5055 North Point Pkway		CITY Alpharetta		STATE GA	ZIP 30022
APPLICANT'S REPRESENTATIVE (name) Maureen Ramdath		PHONE 303-829-0076	FAX		
ADDRESS (street) 5055 North Point Pkway		CITY Alpharetta		STATE GA	ZIP 30222
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input checked="" 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 checked="" type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other			
LATITUDE 37°14' .4.61"		LONGITUDE 84°32'50.39"		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City Eubanks County Pulaski		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT Public			
SITE ELEVATION (AMSL, feet) 1078		TOTAL STRUCTURE HEIGHT (AGL, feet) 355		CURRENT (FAA aeronautical study #) 2022-ASO-37327-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1433				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 11.33 NM				PREVIOUS (KY aeronautical study #) 11.33	
DIRECTION (from nearest Kentucky public use or Military airport to structure) South					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) Suvey Attached					
DESCRIPTION OF PROPOSAL Yancey Road Eubanks KY 42567					
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? 4/25/23 Determined					
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 Maureen Ramdath	TITLE Regulatory	SIGNATURE <i>Maureen Ramdath</i>		DATE 07/8/23	
COMMISSION ACTION <input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC					
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved	SIGNATURE		DATE		



KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR
Governor

Department of Aviation, 90 Airport Road
Frankfort, KY 40601
www.transportation.ky.gov
502-564-0151

JIM GRAY
Secretary

APPROVAL OF APPLICATION

Tuesday, August 15, 2023

Verizon
5055 North Point Parkway
Alpharetta, GA 30022

SUBJECT STUDY #:

AS-2023-052-SME **Lake Cumberland Regional Airport**

APPLICANTS NAME: Verizon

NEAREST CITY: Eubanks, KY

LATITUDE/LONGITUDE: 37°14'4.61" N, 84°32'50.39" W

HEIGHT (In Feet): 355' AGL /1433' AMSL

CONSTRUCTION PROPOSED: Telecommunication Tower

NOTES: The proposed tower exceeds 200 ft AGL and is approximately 11.11 nm N of SME. It penetrates no protected air surfaces.

FAA DETERMINATION: 2022-ASO-37327-OE, expires 10/25/2024. Does not exceed obstruction standards, No Hazard/No Impact to Air Navigation. No objection as long as marked and lighted IAW AC 70/7460-1M, Obstruction Marking and Lighting, a med-dual system.

This letter is to notify you that the Kentucky Airport Zoning Commission **APPROVED** your permit application for the construction of Structures at the Location, Coordinates, and Height as indicated above. Construction must comply with requirements, if any, listed in the FAA Determination.

This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit.

An email of this letter was also sent to your representative, Maureen Ramdath, maureen.ramdath@verizonwireless.com. If you have any questions, please contact us.

Respectfully,

Anthony Adams

Airport Zoning Commission Administrator
KY Department of Aviation
AirportZoning@ky.gov
502-564-0151 Office

Date: June 9, 2023

POD Job Number: 22-134830

GEOTECHNICAL REPORT

LV ETNA

37° 14' 04.616383" N
84° 32' 50.392519" W

Yancey Road,
Eubank, KY 42567

Prepared For:



Prepared By:





June 9, 2023

Ms. Jackie Straight
Verizon Wireless
2902 Ring Road
Elizabethtown, KY 42701

Re: Geotechnical Report – **PROPOSED 350' SELF-SUPPORT TOWER w/ 5' LIGHTNING ARRESTOR**
Site Name: **LV ETNA**
Site Address: Yancey Rd, Eubanks, Pulaski County, Kentucky
Coordinates: N37° 14' 04.616383", W84° 32' 50.392519"
POD Project No. 22-134830

Dear Ms. Straight:

Attached is our geotechnical engineering report for the referenced project. This report contains our findings, an engineering interpretation of these findings with respect to the available project characteristics, and recommendations to aid design and construction of the tower and equipment support foundations.

We appreciate the opportunity to be of service to you on this project. If you have any questions regarding this report, please contact our office.

Cordially,

A handwritten signature in blue ink that reads "Mark Patterson".

Mark Patterson, P.E.
Project Engineer
License No.: KY 16300



Copies submitted: (3) Ms. Jackie Straight

LETTER OF TRANSMITTAL

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APPENDIX

BORING LOCATION PLAN
BORING LOGS
SOIL SAMPLE CLASSIFICATION

Geotechnical Report
PROPOSED 350' SELF-SUPPORT TOWER w/ 5' LIGHTNING ARRESTOR

Site Name: LV ETNA

Site Address: Yancey Rd, Eubanks, Pulaski County, Kentucky

Coordinates: N37° 14' 04.616383", W84° 32' 50.392519"

1. PURPOSE AND SCOPE

The purpose of this study was to determine the general subsurface conditions at the site of the proposed tower by drilling three borings and to evaluate this data with respect to foundation concept and design for the proposed tower and shelter. Also included is an evaluation of the site with respect to potential construction problems and recommendations dealing with quality control during construction.

2. PROJECT CHARACTERISTICS

Verizon is proposing to construct a self-support tower and either an equipment shelter, slab, or platform at N37° 14' 04.616383", W84° 32' 50.392519", Yancey Rd, Eubanks, Pulaski County, Kentucky. The site is located in a sloping farm field in a rural part of Pulaski County southeast of Eubanks and northeast of Somerset, KY. The proposed lease area will be 10,000 square feet and will be accessed by a very short access road south to Yancey Rd. The elevation at the proposed tower location is about EL 1078 and there is at least a 10-foot of change in elevation across the proposed lease area. The development will also include a small equipment shelter near the base of the tower. The proposed tower location is shown on the Boring Location Plan in the Appendix.

3. SUBSURFACE CONDITIONS

The subsurface conditions were explored by drilling three test borings near the base of the proposed tower. The Geotechnical Soil Test Boring Logs, which are included in the Appendix, describes the materials and conditions encountered. A sheet defining the terms and symbols used on the boring logs is also included in the Appendix. The general subsurface conditions disclosed by the test borings are discussed in the following paragraphs.

According to the Kentucky Geological Survey, Kentucky Geologic Map Information Services, the site is underlain by the Upper Mississippian St Louis Limestone which is made up of limestone, clayshale and siltstone. This formation is prone to karst and is adjacent to an intensely karst formation.

The borings encountered about 3 to 4 inches of topsoil at the existing ground surface. Below the topsoil, the borings encountered clay (CH) of medium to high plasticity. The SPT N-values in the clay soil were between 4 to 15 blows per foot (bpf) generally indicating a soft to stiff consistency. Borings B-1 and B-2 encountered a layer of loose sand between 19 and 24 feet just above auger refusal. Boring B-2 also encountered a weathered rock seam from about 12.5

Geotechnical Report

LV ETNA
June 9, 2023

feet to 19 feet that was hard enough for spoon refusal, so a sample was not taken. Boring B-3 encountered clayshale at about 19 feet before the scheduled termination depth of 20.5 feet. Borings B-1 and B-2 encountered auger refusal at 24 feet and 19.5 feet, respectively in the loose sand layer. Auger refusal is defined as the depth at which the boring can no longer be advanced using the current drilling method.

The refusal material was cored in Boring B-1 from 27.5 to 37.5 feet below the ground surface. Limestone that was continuous, hard, fresh and very light gray was encountered. The recoveries of the rock cores were all 100 percent and the RQD values were also all about 100 percent. These values generally represent excellent quality rock from a foundation support viewpoint.

Observations made at the completion of soil drilling operations indicated the borings B-1 and B-2 to be dry. Groundwater was noted at 14 feet in Boring B-3 at completion. It must be noted, however, that short-term water readings in test borings are not necessarily a reliable indication of the actual groundwater level. Furthermore, it must be emphasized that the groundwater level is not stationary, but will fluctuate seasonally.

Based on the limited subsurface conditions encountered at the site and using Table 1615.1.1 of the 2018 Kentucky Building Code, the site class is considered "C". Seismic design requirements for telecommunication towers are given in section 1622 of the code. A detailed seismic study was beyond the scope of this report.

4. FOUNDATION DESIGN RECOMMENDATIONS

The following design recommendations are based on the previously described project information, the subsurface conditions encountered in our borings, the results of our laboratory testing, empirical correlations for the soil types encountered, our analyses, and our experience. If there is any change in the project criteria or structure location, you should retain us to review our recommendations so that we can determine if any modifications are required. The findings of such a review can then be presented in a supplemental report or addendum.

We recommend that the geotechnical engineer be retained to review the near-final project plans and specifications, pertaining to the geotechnical aspects of the project, prior to bidding and construction. We recommend this review to check that our assumptions and evaluations are appropriate based on the current project information provided to us, and to check that our foundation and earthwork recommendations were properly interpreted and implemented.

4.1. Proposed Tower

Our findings indicate that the proposed self-support can be supported on drilled piers or on a common mat foundation.

4.1.1. Drilled Piers

The following table summarizes the recommended values for use in analyzing lateral and frictional resistance for the various strata encountered at the test boring. It is important to note that these values are estimated based on the standard penetration test results and soil types, and were not directly measured. The all values provided are ultimate values and appropriate factors of safety should be used in conjunction with these values. If the piers will bear deeper than about 35 feet, a deeper boring should be drilled to determine the nature of the deeper material.

Depth Below Ground Surface, feet	0 - 2	2 - 10	10 - 24	24 – 27.5	27.5 – 35
Ultimate Bearing Pressure (psf)		11,000	5,500	2,800	150,000
c Undrained Shear Strength, psf	500	2,000	1,000	0	30,000
∅ Angle of Internal Friction degrees	0	0	0	27°	0
Total Unit Weight, pcf	110	120	120	100	135
Soil Modulus Parameter k, pci	30	500	500	90	2000
Passive Soil Pressure, psf/one foot of depth		1,340 + 40(D-2)	675 + 40(D-10)	245(D ²)	20,000 + 45(D-27.5)
Side Friction, psf		400	200	400	2000

Note: D = Depth below ground surface (in feet) to point at which the passive pressure is calculated.

It is important that the drilled piers be installed by an experienced, competent drilled pier contractor who will be responsible for properly installing the piers in accordance with industry standards and generally accepted methods, without causing deterioration of the subgrade. The recommendations contained herein relate only to the soil-pier interaction and do not account for the structural design of the piers.

4.1.2. Mat Foundation

The tower could be supported on a common mat foundation bearing on the clay at a minimum of 4 feet can be designed using an allowable soil pressure of 3,500 pounds per square foot may be used. This value may be increased by 30 percent for the maximum edge pressure under transient loads. A friction value of 0.30 may be used between the concrete and the clay soil. The passive pressures given for the drilled pier foundation may be used to resist lateral forces.

It is important that the mat be designed with an adequate factor of safety with regard to overturning under the maximum design wind load.

4.2. Equipment Platform

An equipment platform may be supported on shallow piers bearing in the natural clay and designed for a net allowable soil pressure of 2,500 pounds per square foot. The piers should bear at a depth of at least 30 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

4.3. Equipment Slab

A concrete slab supporting the equipment must be supported on at least 6-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 6 in. of granular material is placed below the slab, a modulus of subgrade reaction (k30) of 110 lbs/cu.in. can be used for design of the slab. All existing topsoil or soft natural soil should be removed beneath crushed stone layer.

4.4. Equipment Building

If an equipment building support on a slab is chosen in place of the equipment platform, it may be supported on shallow spread footings bearing in the natural clay soil and designed for a net allowable soil pressure of 2,500 pounds per square foot.

The footings should be at least ten inches wide. If the footings bear on soil they should bear at a depth of at least 30 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

The floor slab for the new equipment building can be supported on firm natural soils or on new compacted structural fill. Floor slabs must be supported on at least 4-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 4 in. of granular material is placed below the slab, a modulus of subgrade reaction (k_{30}) of 110 lbs/cu.in. can be used for design of the floor slabs.

4.5. Drainage and Groundwater Considerations

Good site drainage must be provided. Surface run-off water should be drained away from the tower and platform and not allowed to pond. It is recommended that all foundation concrete be placed the same day the excavation is made.



At the time of this investigation, groundwater was encountered at 14 feet in one boring. Therefore, no special provisions regarding groundwater control are considered necessary for shallow foundations. Any seepage should be able to be pumped with sumps.

5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS

It is possible that variations in subsurface conditions will be encountered during construction. Although only minor variations that can be readily evaluated and adjusted for during construction are anticipated, it is recommended the geotechnical engineer, or a qualified representative be retained to perform continuous inspection and review during construction of the soils-related phases of the work. This will permit correlation between the test boring data and the actual soil conditions encountered during construction.

5.1 Drilled Piers

The following recommendations are recommended for drilled pier construction:

-  All piers must be poured the same day drilling is completed so that any shale is not allowed to swell. Clean the foundation bearing area so it is nearly level or suitably benched and is free of ponded water or loose material.
-  Make provisions for ground water removal from the drilled shaft excavation. While the two of the three borings were dry prior to rock coring and significant seepage is not anticipated, the drilled pier contractor should have pumps on hand to remove water in the event seepage into

the drilled pier is encountered.

- Specify concrete slumps ranging from 4 to 7 inches for the drilled shaft construction. These slumps are recommended to fill irregularities along the sides and bottom of the drilled hole, displace water as it is placed, and permit placement of reinforcing cages into the fluid concrete.
- Retain the geotechnical engineer to observe foundation excavations after the bottom of the hole is leveled, cleaned of any mud or extraneous material, and dewatered.
- Install a temporary protective steel casing to prevent side wall collapse, prevent excessive mud and water intrusion in the drilled shaft.
- The protective steel casing may be extracted as the concrete is placed provided a sufficient head of concrete is maintained inside the steel casing to prevent soil or water intrusion into the newly placed concrete.
- Direct the concrete placement into the drilled hole through a centering chute to reduce side flow or segregation.

5.2 Fill Compaction

All engineered fill placed adjacent to and above the tower foundation should be compacted to a dry density of at least 95 percent of the standard Proctor maximum dry density (ASTM D-698). This minimum compaction requirement should be increased to 98 percent for any fill placed below the tower foundation bearing elevation. Any fill placed beneath the tower foundation should be limited to well-graded sand and gravel or crushed stone. The compaction should be accomplished by placing the fill in about 8 inch (or less) loose lifts and mechanically compacting each lift to at least the specified minimum dry density. Field density tests should be performed on each lift as necessary to ensure that adequate moisture conditioning and compaction is being achieved.

Compaction by flooding is not considered acceptable. This method will generally not achieve the desired compaction and large quantities of water will tend to soften the foundation soils.

5.3 Construction Dewatering

If groundwater is encountered in the shallow foundations, it should be minor and can be handled by conventional dewatering methods such as pumping from sumps.

If groundwater is encountered in the drilled pier excavations, it may be more difficult since pumping directly from the excavations could cause a deterioration of the bottom of the excavation. If the pier excavations are not dewatered, concrete should be placed by the termie method. If groundwater sits on the bottom of the foundation for longer than an hour, the bottom should be cleaned again before the pier is poured.

6 FIELD INVESTIGATION

Three soil test borings were drilled near the base of the proposed tower. Split-spoon samples were obtained by the Standard Penetration Test (SPT) procedure (ASTM D1586) in all test borings. Boring B-3 was terminated at the scheduled depth of 20.5 feet. Borings B-1 and B-2 encountered auger refusal at 27.5 feet and 19.5 feet, respectively. A rock core of the refusal material was taken in Boring B-1 from 27.5 to 37.5 feet. The split spoon samples were inspected and visually classified by a geotechnical engineer. Representative portions of the soil samples were sealed in glass jars and returned to our laboratory.

The boring logs are included in the Appendix along with a sheet defining the terms and symbols used on the logs and an explanation of the Standard Penetration Test (SPT) procedure. The logs present visual descriptions of the soil strata encountered, Unified System soil classifications, groundwater observations, sampling information, laboratory test results, and other pertinent field data and observations.

7 WARRANTY AND LIMITATIONS OF STUDY

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. This warranty is in lieu of all other warranties, either express or implied. POD Group is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

A geotechnical study is inherently limited since the engineering recommendations are developed from information obtained from test borings, which depict subsurface conditions only at the specific locations, times and depths shown on the log. Soil conditions at other locations may differ from those encountered in the test borings, and the passage of time may cause the soil conditions to change from those described in this report.

The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions and to check that the soils connected construction phases are properly completed. If significant variations or changes are in evidence, it may then be necessary to reevaluate the

Geotechnical Report

LV ETNA
June 9, 2023

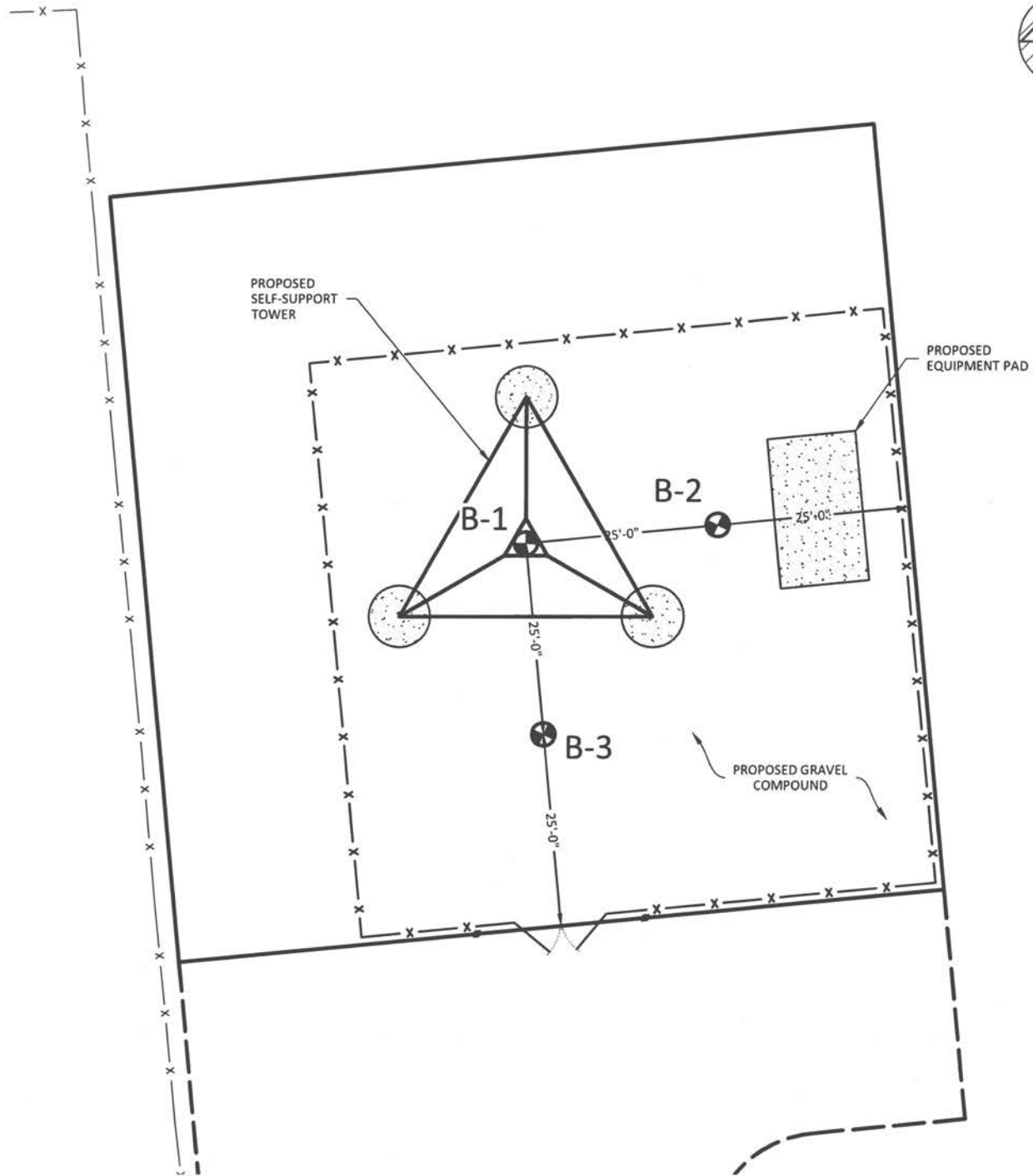
recommendations of this report. Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect, or if additional information becomes available, a review must be made by this office to determine if any modification in the recommendations will be required.

APPENDIX

BORING LOCATION PLAN

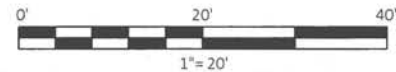
BORING LOGS

SOIL SAMPLE CLASSIFICATION



LEGEND

B-1 BORING LOCATION



SHEET TITLE: BORING LOCATION PLAN	LATITUDE: 37° 14' 04.616383" N LONGITUDE: 84° 32' 50.392519" W	SITE INFORMATION: LV ETNA YANCEY ROAD EUBANK, KY 42567 PULASKI COUNTY	 POWER OF DESIGN 11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 502-437-5252
	PARCEL #: 086-0-0-42 TRACT 3 OF DB 770, PG 412		
SHEET NUMBER: 1	POD NUMBER: 22-134830 DRAWN BY: POD CHECKED BY: MEP DATE: 6.7.2023	OWNER INFORMATION: SPENCER LOVELESS & GLENN E LOVELESS 2530 TEXAS SCHOOL ROAD EUBANK, KY 42567	



Boring Log

Boring: B-1

Page 1 of 1

Project: LV Etna

City, State

Eubanks, KY

Method: S.F.A.

Boring Date: 9-May-23

Location: Proposed Tower Center

Inside Diameter: 4"

Drill Rig Type: B-51 (ATV)

Hammer Type: Auto

Groundwater: DRY

Weather:

Driller: Strata Group, LLC

Note: About 4 inches of topsoil was encountered at the ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.3	24.0	CLAY (CH) - medium stiff to stiff, slightly moist, reddish brown with trace chert - moist, reddish brown-tan mottled	0 - 1.5	SS	2, 2, 6	18	8,			24%		-
			1.5 - 3	SS	4, 5, 7	16	12,			30%		3.2
			4 - 5.5	SS	4, 6, 6	18	12,			33%		3.0
			6.5 - 8	SS	3, 5, 6	18	11,			30%		3.7
			9 - 10.5	SS	2, 3, 4	18	7,			36%		2.0
	14.0	- wet, olive tan	14-15.5	SS	3, 3, 2	18	5,			48%		-
	19.0	- soft with clayshale	19.0-20.5	SS	4, 2, 2	18	4,					0.5
24.0	27.5	SAND (SP) - loose, brown, fine to medium grained with trace clay	24.0-25.5	SS	2, 3, 3	18	6,			24%		
27.5	37.5	LIMESTONE - continuous, fresh, very light gray	27.5-29.8	RC		27		100%				
			29.8-34.8	RC		60		100%				
			34.8-37.5	RC		36		100%				

Boring Terminated at 37.5 feet



Boring Log

Boring: B-2

Page 1 of 1

Project: LV Etna	City, State: Eubanks, KY	
Method: S.F.A.	Boring Date: 9-May-23	Location: 25' East of Tower Center
Inside Diameter: 4"	Drill Rig Type: B-51 (ATV)	Hammer Type: Auto
Groundwater: DRY		Weather:
Driller: Strata Group, LLC		Note: About 3 inches of topsoil was encountered at the ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.2	12.5	CLAY (CH) - medium stiff to stiff, slightly moist, reddish brown-tan with trace chert -olive tan	0 - 1.5	SS	2, 4, 5	18	9,			18%		3.2
			1.5 - 3	SS	5, 5, 7	16	12,			24%		4.2
			4 - 5.5	SS	5, 4, 5	18	9,			36%		3.2
			6.5 - 8	SS	4, 5, 7	18	12,			30%		3.5
			9 - 10.5	SS	4, 8, 6	18	14,			17%		2.5
12.5	19.0	WEATHERED ROCK SEAM - no sample taken	14-15.5	SS								--
19.0	19.5	SAND (SP) - loose, brown, fine to medium grained with trace clay	19.0-19.5	SS	50,	5	50,					
Auger Refusal at 19.5 feet												



Boring Log

Boring: B-3

Page 1 of 1

Project: LV Etna

City, State

Eubanks, KY

Method: S.F.A.

Boring Date: 9-May-23

Location: 25' South of Tower Center

Inside Diameter: 4"

Drill Rig Type: B-51 (ATV)

Hammer Type: Auto

Groundwater: 14' at completion

Weather:

Driller: Strata Group, LLC

Note: About 3 inches of topsoil was encountered at the ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)	
0.2	12.5	CLAY (CH) - stiff, reddish brown with chert -reddish brown-tan mottled - slightly moist - wet, tan to dark brown with fine sand	0 - 1.5	SS	4, 6, 6	18	12,			22%		4.2	
			1.5 - 3	SS	4, 6, 9	16	15,			28%		3.2	
													3.2
													4.1
													2.8
													--
14.0	14.0		14-15.5	SS	11, 50,	7	50,			38%		--	
19.0	20.5	CLAY SHALE - very highly weathered, light gray	19.0-20.5	SS	22, 18, 14		32,						
		Boring Terminated at 20.5 feet											

SOIL SAMPLE CLASSIFICATION

FINE AND COARSE GRAINED SOIL INFORMATION

COARSE GRAINED SOILS (SANDS & GRAVELS)		FINE GRAINED SOILS (SILTS & CLAYS)			PARTICLE SIZE	
N	Relative Density	N	Consistency	Qu, KSF Estimated		
0-4	Very Loose	0-1	Very Soft	0-0.5	Boulders	Greater than 300 mm (12 in)
5-10	Loose	2-4	Soft	0.5-1	Cobbles	75 mm to 300 mm (3 to 12 in)
11-20	Firm	5-8	Firm	1-2	Gravel	4.74 mm to 75 mm (3/16 to 3 in)
21-30	Very Firm	9-15	Stiff	2-4	Coarse Sand	2 mm to 4.75 mm
31-50	Dense	16-30	Very Stiff	4-8	Medium Sand	0.425 mm to 2 mm
Over 50	Very Dense	Over 31	Hard	8+	Fine Sand	0.075 mm to 0.425 mm
					Silts & Clays	Less than 0.075 mm

The **STANDARD PENETRATION TEST** as defined by ASTM D 1586 is a method to obtain a disturbed soil sample for examination and testing and to obtain relative density and consistency information. A standard 1.4-inch I.D./2-inch O.D. split-barrel sampler is driven three 6-inch increments with a 140 lb. hammer falling 30 inches. The hammer can either be of a trip, free-fall design, or actuated by a rope and cathead. The blow counts required to drive the sampler the final two increments are added together and designate the N-value defined in the above tables.

ROCK PROPERTIES

ROCK QUALITY DESIGNATION (RQD)		ROCK HARDNESS	
Percent RQD	Quality		
0-25	Very Poor	Very Hard:	Rock can be broken by heavy hammer blows.
25-50	Poor	Hard:	Rock cannot be broken by thumb pressure, but can be broken by moderate hammer blows.
50-75	Fair	Moderately Hard:	Small pieces can be broken off along sharp edges by considerable hard thumb pressure; can be broken with light hammer blows.
75-90	Good	Soft:	Rock is coherent but breaks very easily with thumb pressure at sharp edges and crumbles with firm hand pressure.
90-100	Excellent	Very Soft:	Rock disintegrates or easily compresses when touched; can be hard to very hard soil.

Recovery =	$\frac{\text{Length of Rock Core Recovered}}{\text{Length of Core Run}}$	X100	63 REC NQ 43 RQD	Core Diameter	Inches
RQD =	$\frac{\text{Sum of 4 in. and longer Rock Pieces Recovered}}{\text{Length of Core Run}}$	X100		BQ NQ HQ	1-7/16 1-7/8 2-1/2

SYMBOLS

KEY TO MATERIAL TYPES

SOILS	
Group Symbols	Typical Names
GW	Well graded gravel - sand mixture, little or no fines
GP	Poorly graded gravels or gravel - sand mixture, little or no fines
GM	Silty gravels, gravel - sand silt mixtures
GC	Clayey gravels, gravel - sand - clay mixtures
SW	Well graded sands, gravelly sands, little or no fines
SP	Poorly graded sands or gravelly sands, little or no fines
SM	Silty sands, sand - silt mixtures
SC	Clayey sands, sand - clay mixtures
ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts
OL	Organic silts and organic silty clays of low plasticity
CL	Inorganic clays of low range plasticity, gravelly clays, sandy clays, silty clays, lean clays
MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
CH	Inorganic clays of high range plasticity, fat clays

ROCKS	
Symbols	Typical Names
	Limestone or Dolomite
	Shale
	Sandstone

SOIL PROPERTY SYMBOLS

- N: Standard Penetration, BPF
- M: Moisture Content, %
- LL: Liquid Limit, %
- PI: Plasticity Index, %
- Qp: Pocket Penetrometer Value, TSF
- Qu: Unconfined Compressive Strength Estimated Qu, TSF
- γ_D : Dry Unit Weight, PCF
- F: Fines Content

SAMPLING SYMBOLS

- SS Split Spoon Sample
- Relatively Undisturbed Sample
- Rock Core Sample

Directions to the Site:

FROM PULASKI COUNTY CLERK'S OFFICE; 100 NORTH MAIN STREET, SOMERSET KY 42502; HEAD NORTH TOWARDS NORTH VINE STREET (66 FEET); TURN LEFT TOWARD NORTH VINE STREET (121 FEET), TURN LEFT ONTO NORTH VINE STREET (148 FEET), TURN LEFT AT THE FIRST CROSS STREET ONTO WEST MT VERNON STREET (325 FEET), TURN LEFT ONTO NORTH MAIN STREET (0.5 MILE), TURN RIGHT ONTO KY-39 NORTH / CRAB ORCHARD ROAD AND CONTINUE TO FOLLOW KY-39 NORTH (9.2 MILE), TURN LEFT ONTO STATE HIGHWAY 452 (1.6 MILE), TURN RIGHT ONTO TEXAS SCHOOL ROAD (0.6 MILE), TURN RIGHT ONTO HENDERSON ROAD (0.5 MILE), SLIGHT RIGHT ONTO YANCY ROAD (0.2 MILE), SITE WILL BE LOCATED ON LEFT (NORTH) SIDE OF THE ROAD.

Power of Design 502-437-5252

53.00
1/9/679



This Instrument prepared by and after recording return to:

Rural Cellular Corporation d/b/a Verizon Wireless

c/o Coots Henke & Wheeler, P.C.

255 E. Carmel Drive

Carmel, IN 46032

Attn: Daniel E. Coots, Esq. *D.E. Coots*

VzW Site Name: LV ETNA

Location Code: 639571

STATE OF KENTUCKY

COUNTY OF PULASKI

Prior Deed References: Deed Book 770, Pages 412-418 in Office of Clerk of Pulaski County, Kentucky

MEMORANDUM OF LAND LEASE AGREEMENT

This Memorandum of Land Lease Agreement is made this 14 day of April, 2023, between **Glenn E. Loveless and Spencer Loveless**, having a mailing address of 2530 Texas School Road, Eubank, KY 42567, hereinafter designated LESSOR, and **Rural Cellular Corporation d/b/a Verizon Wireless**, with its principal offices at One Verizon Way, Mailstop 4AW100, Basking Ridge, NJ 07920, hereinafter designated LESSEE.

1. LESSOR and LESSEE entered into a certain Land Lease Agreement ("Lease") dated April 5, 2023. Such Lease has an initial term of five (5) years which shall be automatically extended for four (4) additional five (5) year terms, unless LESSEE terminates the Lease in accordance with the terms thereof.

2. In consideration of the rental set forth in the Lease, LESSOR hereby leases to LESSEE certain ground space area consisting of approximately 100' x 100', or 10,000 square feet, for the construction and maintenance of LESSEE's telecommunications facility upon that certain real estate located approximately at approximately 0 Yancy Road, Eubank, Kentucky 42567 (Pulaski County), with a legal description attached as Exhibit A ("Property"), together with the non-exclusive right for ingress and egress, access, and utility easements.

3. The term of the Lease shall commence the first (1st) day of the month after LESSEE begins construction of LESSEE's telecommunications facility. A copy of the Lease is on file in the office

MEMORANDUM OF LAND LEASE AGREEMENT CONTINUED

of the LESSOR and LESSEE.

4. The terms, covenants and provisions of the Lease of which this is a Memorandum, shall extend to and be binding upon the respective executors, administrators, heirs, successors and assigns of LESSOR and LESSEE, including but not limited to any rights of first refusal to purchase the Premises/Property during any given Term of the Lease.

5. 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 and the terms of the Lease, the terms of the Lease shall prevail.

[the remainder of this page is intentionally left blank]

MEMORANDUM OF LAND LEASE AGREEMENT CONTINUED

IN WITNESS WHEREOF, hereunto and to a duplicate hereof, LESSOR and LESSEE have caused this Memorandum to be duly executed on April 5, 2023.

LESSEE:

RURAL CELLULAR CORPORATION
d/b/a Verizon Wireless

By: [Signature]
Printed: Ed Maher
Title: Director - Network Field Engineering

Address: One Verizon Way, Mailstop 4AW100
Basking Ridge, NJ 07920

Date: 4/5/23

LESSEE NOTARY BLOCK:

STATE OF Michigan COUNTY OF Oakland

The foregoing instrument was acknowledged before me this 5th day of April, 2023, by Ed Maher, Director Network Field Engineering (Title) of Rural Cellular Corporation d/b/a Verizon Wireless, who is personally known to me.

NOTARIAL SEAL

My commission expires: 5/10/2027

[Signature]
(OFFICIAL NOTARY SIGNATURE)
NOTARY PUBLIC—STATE OF Michigan
[Signature]
(NAME OF NOTARY)
COMMISSION NUMBER: _____

BARBARA MADIGAN EVANS
Notary Public, State of Michigan
County of Oakland
My Commission Expires 05-10-2027
Acting in the County of _____

MEMORANDUM OF LAND LEASE AGREEMENT CONTINUED

LESSOR:

Glenn E. Loveless
Glenn E. Loveless

Spencer Loveless
Spencer Loveless

Date: 3/1/2023

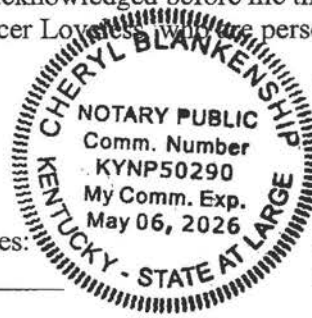
LESSOR NOTARY BLOCK:

STATE OF Kentucky

COUNTY OF Pulaski

The foregoing instrument was acknowledged before me this 1st day of March, 2023, by Glenn E. Loveless and Spencer Loveless, who are personally known to me.

NOTARIAL SEAL



Cheryl Blankenship
(OFFICIAL NOTARY SIGNATURE)

NOTARY PUBLIC—STATE OF Kentucky

Cheryl Blankenship
(NAME OF NOTARY)

COMMISSION NUMBER: KYNP50290

My commission expires: 5/6/2026

“I, affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law.” Jenny S. Jennifer S. Conlon

EXHIBIT A
Legal Description

See next page

Tract I

A certain tract of land lying in the County of Pulaski, State of Kentucky, on the waters of Indian Creek and bounded as follows, to wit:

Beginning at a stone by the side of the road; thence South 7° East 25 1/4 poles to a stone; thence South 71° East 36 poles to a stone in a drain; thence down said drain South 38° East 15 1/2 poles to a stone in said drain; thence South 48° East 9 1/2 poles to a stone; thence South 4° East 29 poles to a stone, between a branch and a cliff; thence South 20° West 16 poles and 3 feet to a stone; thence South 31° West 21 poles 16 feet to a stone; thence South 28° West 10 poles 14 feet to a stone; thence South 31° West with a cliff 14 1/2 poles to a stone at the foot of the cliff; thence across Indian Creek South 10 1/4° East 29 poles and 3 feet to a stone at the mouth of the dry branch; thence up said creek South 55° West 21 poles 10 feet; North 42° 9' West 56 poles; South 69° West 21 poles to a stone on the south bank of Indian Creek; thence North 9° West 126 poles to a stone by the road; thence North 55° East 49 poles to the beginning, containing 77 1/3 acres, more or less.

Tract II

A certain tract or boundary of land located and being in Pulaski County, Kentucky, on the waters of Buck Creek and bounded and described as follows, to wit:

Beginning at a stone on the north side of Texas Rural Highway No. 34, thence South 10° East 112 poles to a stone on the cliff Indian Creek, corner of William Yancey and George Dye; thence South 28° West 18 poles to a Spanish oak on the bluff of Indian Creek, corner of said to Yancy and Dye; thence South 47° West 22 poles to a stone where stood an ash and sugar tree at a branch; thence up said branch with meanders of same North 40° West 90 poles to a stone, William Barron's corner; thence South 60° West 32 poles to a stone, Barron, York and Dye's corner; thence Northwest 31 poles to a post oak; thence North 60° West 40 poles to a stone on the south side of Rural Highway 34; thence North 63 1/2° East 68 poles and 18 links to a stone at side of road; thence North 88° East 50 poles to a stone; thence North 80 1/2° East 38 poles and 16 links to a stone; thence North 54 1/2° East 5 poles and 21 links to the beginning.

Tract III

A certain tract or parcel of land lying and being in the County of Pulaski, and State of Kentucky, on the waters of Buck Creek, and bounded as follows, to wit:

Beginning at a stone on the south side of Texas R.H. Road No. 34, running North 45° West 70 poles to a post oak and two hickories, Pleasant George's corner; thence with his line North 73 1/2° East 188 poles to a hickory; thence South 13° East 60 poles to a stone on the north side of R.H.No.34; thence South 54 1/2° West 5 poles and 21 links to a stone on the north side of said road; thence South 80 1/2° West 38 poles and 16 links to a stone on the north side of said road; thence South 88° West 50 poles to a stone on the south side of said R.H. Road No.34; thence 63 1/2° West poles and 18 links to the beginning, containing 70 acres, more or less.

Being the same property acquired by SPENCER LOVELESS and GLENN E. LOVELESS, by Deed of Conveyance dated August 3, 2005, of record in Deed Book 770, Page 412, In the Office of the Clerk of Pulaski County, Kentucky.

Filed: 04/17/2023 11:05:03 AM
Tim Price, County Clerk
Pulaski County, KY

Received By: ALEISHA ROBERTS

Notification Listing with PVA Screen Shots

Parcel Number 086-0-0-42
 LOVELESS SPENCER & GLENN E
 2530 TEXAS SCHOOL RD
 EUBANK KY 42567

Kentucky Pulaski County, KY PVA

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

Summary

Parcel Number: 086-0-0-42
 Account #: 26315
 Tax District: Pulaski County (11)
 Millage Rate:
 Location Address:
 Legal Description: 215 AC HENDERSON RD
 (Note: Not to be used on legal documents.)
 Acres/Lot: 215.000
 Property Usage: FARM (F)
 Neighborhood: FAIR
 Homestead: No

Owners

LOVELESS SPENCER & GLENN E
 2530 TEXAS SCHOOL RD
 EUBANK KY 42567

Valuation

Land

Sales


Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
8/9/2005	\$150,000			770	412	Qualified	LOVELESS FRANK & ETHEL	LOVELESS SPENCER & GLENN E


Sales are not entered after March 31st of each year.

Recent Sales in Area

Sale date range: From: 11/1/2010 To: 11/30/2010

Information


 Pulaski County, KY
 100 North Main St
 PO Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST


 Property Valuation
 Administrator
 TW Todd
 606-679-1812
 Chief Deputy
 Sherry Tomlinson
 606-679-1812

Parcel Number 072-0-0-83
 BRAY LESLIE
 233 LESLIE BRAY RD
 EUBANK KY 42567

Kentucky Pulaski County, KY PVA

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

Summary

Parcel Number: 072-0-0-83
 Account #: 27108
 Tax District: Pulaski County (11)
 Millage Rate:
 Location Address:
 Legal Description: 78 AC LESLIE BRAY RD
 (Note: Not to be used on legal documents.)
 Acres/Lot: 78.000
 Property Usage: FARM (F)
 Neighborhood: TYPICAL
 Homestead: YES

Owners

BRAY LESLIE
 233 LESLIE BRAY RD
 EUBANK KY 42567

Valuation

Land


Buildings

Sales


Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
1/1/1900	\$0			183	005	Qualified		BRAY LESLIE


Sales are not entered after March 31st of each year.

Photos



Information


 Pulaski County, KY
 100 North Main St
 PO Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST


 Property Valuation
 Administrator
 TW Todd
 606-679-1812
 Chief Deputy
 Sherry Tomlinson
 606-679-1812

Parcel Number 072-0-0-82.1
THURMAN DWIGHT & JO CAROL
 460 BOB KELLER RD
 EUBANK KY 42567

Kentucky UNBROKEN SPIRIT Pulaski County, KY PVA Log In Search search...

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

Summary

Parcel Number 072-0-0-82.1
 Account # 21551
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 460 BOBBY KELLER RD
 Legal Description 46 AC BOBBY KELLER RD TR 4-7
 (Note: Not to be used on legal documents.)
 Acres/Lot 46.000
 Property Usage FARM (F)
 Neighborhood FAIR
 Homestead YES

Owners

THURMAN DWIGHT & JO CAROL
 460 BOB KELLER RD
 EUBANK KY 42567

Valuation

Land

Buildings


Sales

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
1/1/1900	\$70,000			600	100	Qualified	THURMAN DWIGHT & JO CAROL	


Sales are not entered after March 31st of each year.

Photos

Information



Pulaski County KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST



Property Valuation Administrator
 T.W. Todd
 606-679-1812

Chief Deputy
 Sherry Tomlison
 606-679-1812

Parcel Number 071-0-0-15
ANDERSON JONATHAN & MARY
 650 TEXAS SCHOOL RD
 EUBANK KY 42567

Kentucky UNBROKEN SPIRIT Pulaski County, KY PVA Log In Search search...

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

Summary

Parcel Number 071-0-0-15
 Account # 42456
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 60.85 AC & TR 1 & 2 KELLER PROP TEXAS SCHOOL RD
 Legal Description (Note: Not to be used on legal documents.)
 Acres/Lot 60.850
 Property Usage FARM (F)
 Neighborhood FAIR
 Homestead No

Owners

ANDERSON JONATHAN & MARY
 650 TEXAS SCHOOL RD
 EUBANK KY 42567

Valuation


Land

Buildings


Sales

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
5/16/2018	\$225,000		435985	978	704	Unqualified - Purchaser owns adjoining property	ANDERSON ALLEN & PATRICIA	ANDERSON JONATHAN & MARY
12/31/2003	\$180,000			730	065	Qualified	KELLER SOPHIA	ANDERSON ALLEN & PATRICIA

Information



Pulaski County KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST



Property Valuation Administrator
 T.W. Todd
 606-679-1812

Chief Deputy
 Sherry Tomlison
 606-679-1812

Parcel Number 071-0-0-13
 ANDERSON ALLEN & PATRICIA
 260 HENDERSON RD
 EUBANK KY 42567

Kentucky UNBROKEN SPIRIT Pulaski County, KY PVA LOG In Search search...

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

Summary

Parcel Number 071-0-0-13
 Account # 14884
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 260 HENDERSON RD
 Legal Description 1.44 AC HENDERSON RD
 (Note: Not to be used on legal documents.)
 Acres/Lot 1.440
 Property Usage RESIDENTIAL (R)
 Neighborhood FAIR
 Homestead YES

Owners

ANDERSON ALLEN & PATRICIA
 260 HENDERSON RD
 EUBANK KY 42567

Valuation

Land

Buildings


Yard Items

Sales


Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
1/1/1900	\$0			438	500	Qualified		ANDERSON ALLEN & PATRICIA

Click here to download more photos from this property.

Information



Pulaski County, KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST



Property Valuation
 Administrator
 T.W. Todd
 606-679-1812
 Chief Deputy
 Sherry Tomlinson

Parcel Number 071-0-0-12
 PRICE ALEX S & AMANDA K
 290 HENDERSON RD
 EUBANK KY 42567

Kentucky UNBROKEN SPIRIT Pulaski County, KY PVA LOG In Search search...

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

Summary

Parcel Number 071-0-0-12
 Account # 6088
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 290 HENDERSON RD
 Legal Description .49 AC HENDERSON RD
 (Note: Not to be used on legal documents.)
 Acres/Lot 0.490
 Property Usage RESIDENTIAL (R)
 Neighborhood FAIR
 Homestead No

Owners

PRICE ALEX S & AMANDA K
 290 HENDERSON RD
 EUBANK KY 42567

Valuation


Land

Buildings


Sales

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
3/5/2015	\$155,000			927	085	Unqualified - Close Relative Sales	PRICE DENNIS	PRICE ALEX S & AMANDA K

Information



Pulaski County, KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST



Property Valuation
 Administrator
 T.W. Todd
 606-679-1812

Parcel Number 071-0-0-14
 ALEXANDER WILLIAM E & LOIS
 4680 E HWY 452
 EUBANK KY 42567

Kentucky Pulaski County, KY PVA Log In Search search...

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

Summary

Parcel Number 071-0-0-14
 Account # 29121
 Tax District Pulaski County (11)
 Millage Rate
 Location Address HWY 452
 Legal Description 23 AC HWY 452
(Note: Not to be used on legal documents.)
 Acres/Lot 23.000
 Property Usage FARM (F)
 Neighborhood FAIR
 Homestead No

Owners

[ALEXANDER WILLIAM E & LOIS](#)
 4680 E HWY 452
 EUBANK KY 42567

Valuation

Land


Sales

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
1/1/1900	\$0			371	087	Qualified		ALEXANDER WILLIAM E & LOIS


Sales are not entered after March 31st of each year

Recent Sales in Area

Information



Pulaski County, KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST



Property Valuation Administrator
 TW Todd
 606-679-1812
 Chief Deputy

Parcel Number 071-0-0-16
 HENDERSON DALE & SHIRLEY
 701 HENDERSON RD
 EUBANK KY 42567

Kentucky Pulaski County, KY PVA Log In Search search...

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

Summary

Parcel Number 071-0-0-16
 Account # 21235
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 701 HENDERSON RD
 Legal Description 59 AC HENDERSON RD
(Note: Not to be used on legal documents.)
 Acres/Lot 50.000
 Property Usage FARM (F)
 Neighborhood FAIR
 Homestead YES

Owners

[HENDERSON DALE & SHIRLEY](#)
 701 HENDERSON RD
 EUBANK KY 42567

Valuation

Land



Buildings

Sales


Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
1/1/1900	\$0			363	111	Qualified		HENDERSON DALE

Sales are not entered after March 31st of each year

Information

Pulaski County, KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST



Property Valuation Administrator
 TW Todd
 606-679-1812
 Chief Deputy

Parcel Number 071-0-0-09
 HENDERSON MICHAEL
 716 HENDERSON RD
 EUBANK KY 42567

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

Summary

Parcel Number 071-0-0-09
 Account # 32929
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 716 HENDERSON RD
 Legal Description 30 AC HENDERSON RD
 (Note: Not to be used on legal documents.)
 Acres/Lot 30.000
 Property Usage FARM (F)
 Neighborhood FAIR
 Homestead No

Owners

HENDERSON MICHAEL
 716 HENDERSON RD
 EUBANK KY 42567

Valuation


Land

Buildings


Sales

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
8/31/2011	\$200,000			872	432	Qualified	HENDERSON EDWIN & ALVENA	HENDERSON MICHAEL
1/1/1900	\$0			213	327	Qualified		HENDERSON EDWIN & ALVENA

Information



Pulaski County, KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST



Property Valuation
 Administrator
 T.W. Todd
 606-679-1812

Parcel Number 086-0-0-45
 MOUNCE LOUIE C & BETTY ANN
 165 SAVANNAH TRAIL
 EUBANK KY 42567

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

Summary

Parcel Number 086-0-0-45
 Account # 46941
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 165 SAVANNAH TRL
 Legal Description 18 AC SAVANNAH TRL
 (Note: Not to be used on legal documents.)
 Acres/Lot 18.000
 Property Usage FARM (F)
 Neighborhood FAIR
 Homestead YES

Owners

MOUNCE LOUIE C & BETTY ANN
 165 SAVANNAH TRAIL
 EUBANK KY 42567

Valuation


Land

Buildings


Sales

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
12/7/1999	\$13,000			648	215	Qualified	YANCEY JAMES E	MOUNCE LOUIE C & BETTY ANN
12/1/1946	\$0			150	316	Qualified	GEORGE DYE	YANCEY JAMES E

Information



Pulaski County, KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST



Property Valuation
 Administrator
 T.W. Todd
 606-679-1812

Parcel Number 086-0-0-43
 ROARK EMILY
 450 YANCEY RD
 EUBANK KY 42567

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

Summary

Parcel Number 086-0-0-43
 Account # 31217
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 111.75 AC YANCEY RD
 Legal Description 111.75 AC YANCEY RD
 (Note: Not to be used on legal documents.)
 Acres/Lot 111.750
 Property Usage FARM (F)
 Neighborhood FAIR
 Homestead No

Owners

[ROARK EMILY](#)
 450 YANCEY RD
 EUBANK KY 42567


Valuation

Land


Sales

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
4/22/2022	\$51,000		493280	1054	333	Unqualified - Close Relative Sales	BAKER HOY JR & FREDIA	ROARK EMILY
2/7/2001	\$150,000			670	390	Unqualified - Close Relative Sales	BAKER FRANK EST	BAKER HOY JR & FREDIA
10/18/2000	\$150,000			665	210	Qualified	MARLEY DELMAR & EILEEN	BAKER FRANK EST

Information



Pulaski County, KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST



Property Valuation Administrator
[T.W. Todd](#)
 606-679-1812

Parcel Number 086-0-0-43.1
 ROARK EMILY N & DANIEL W
 450 YANCEY RD
 EUBANK KY 42567

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

Summary

Parcel Number 086-0-0-43.1
 Account # 41756
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 25.24 ACTR 1 YANCEY RD
 Legal Description 25.24 ACTR 1 YANCEY RD
 (Note: Not to be used on legal documents.)
 Acres/Lot 25.240
 Property Usage FARM (F)
 Neighborhood TYPICAL
 Homestead No

Owners

ROARK EMILY N & DANIEL W
 450 YANCEY RD
 EUBANK KY 42567

Valuation



Land

Buildings


Sales

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
5/23/2003	\$10,000			716	443	Qualified	BAKER HOY JR	ROARK EMILY N & DANIEL W

Information

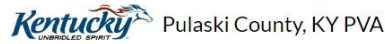



Pulaski County, KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST



Property Valuation Administrator
[T.W. Todd](#)
 606-679-1812

Parcel Number 086-0-0-41
SKAGGS EVERETT & NELL
 10311 HWY 39
 SOMERSET KY 42503



Log In Search search_ Q

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

Summary

Parcel Number 086-0-0-41
 Account # 15777
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 10311 HWY 39
 Legal Description 85 AC HWY 39
 (Note: Not to be used on legal documents.)
 Acres/Lot 85.000
 Property Usage FARM (F)
 Neighborhood FAIR
 Homestead YES



Information



Pulaski County, KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST

Owners

SKAGGS EVERETT & NELL
 10311 HWY 39
 SOMERSET KY 42503



Property Valuation Administrator
 T.W. Todd
 606-679-1812

Valuation

Land

Buildings

Sales

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
9/3/2003	\$30,000			722	364	Qualified		SKAGGS EVERETT & NELL

Parcel Number 087-0-0-31
WITT STANLEY & JO ANN
 4870 E HWY 452
 EUBANK KY 42567



Log In Search search_ C

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

Summary

Parcel Number 087-0-0-31
 Account # 49757
 Tax District Pulaski County (11)
 Millage Rate
 Location Address 4870 E HWY 452
 Legal Description 71 AC E HWY 452
 (Note: Not to be used on legal documents.)
 Acres/Lot 71.000
 Property Usage FARM (F)
 Neighborhood FAIR
 Homestead YES



Information



Pulaski County, KY
 100 North Main St
 P.O. Box 110
 Somerset, KY 42502
 Monday - Friday 8:00am - 4:00pm EST

Owners

[WITT STANLEY & JO ANN](#)
 4870 E HWY 452
 EUBANK KY 42567



Property Valuation Administrator
 T.W. Todd
 606-679-1812

Valuation

Land

Buildings

Sales

Sale Date	Sale Price	Instrument	Instrument Number	Deed Book	Deed Page	Sale Qualification	Grantor	Grantee
8/3/2007	\$37,900			851	549	Unqualified - Close Relative Sales	WARREN JOANN	WITT STANLEY & JO ANN

Sales are not entered after March 31st of each year



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

November 22, 2023

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

Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC propose to construct a wireless communications facility on a site located on the north side of Yancy Rd, west of Henderson Road, Eubank, KY 42567. (North Latitude: (37° 14' 04.61", West Longitude 84° 32' 50.39"). The proposed facility will include a 350-foot tall antenna tower, plus a 5-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous 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 2023-00382 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

A handwritten signature in black ink, appearing to read 'RLB'.

Attorney for Applicant
RLB/mnw
enclosure

Location Map



CERTIFIED MAIL

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



9589 0710 5270 1623 2609 15

LOVELESS SPENCER & GLENN E
2530 TEXAS SCHOOL RD
EUBANK, KY 42567

FIRST-CLASS



US POSTAGE^{IMI}PITNEY BOWES



ZIP 46204 \$ 008.53⁰
02 7H
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Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 1623 2609 22

BRAY LESLIE
233 LESLIE BRAY RD
EUBANK, KY 42567

FIRST-CLASS



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ZIP 46204 \$ 008.53⁰
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ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 1623 2616 53

THURMAN DWIGHT & JO CAROL
460 BOB KELLER RD
EUBANK, KY 42567

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Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 1623 2616 60

ANDERSON JONATHAN & MARY
650 TEXAS SCHOOL RD
EUBANK, KY 42567

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Clark, Quinn, Moses, Scott & Grahn, LLP



9589 0710 5270 1623 2616 77

ANDERSON ALLEN & PATRICIA
260 HENDERSON RD
EUBANK, KY 42567

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9589 0710 5270 1623 2616 84

PRICE ALEX S & AMANDA K
290 HENDERSON RD
EUBANK, KY 42567

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ZIP 46204 \$ **008.53⁰**
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Clark, Quinn, Moses, Scott & Grahn, LLP

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9589 0710 5270 1623 2616 91

ALEXANDER WILLIAM E & LOIS
4680 E HWY 452
EUBANK, KY 42567

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9589 0710 5270 1623 2617 07

HENDERSON DALE & SHIRLEY
701 HENDERSON RD
EUBANK, KY 42567

FIRST-CLASS



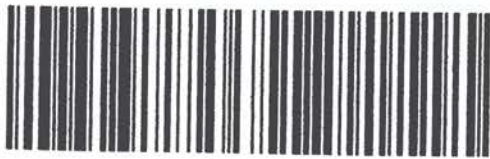
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Clark, Quinn, Moses, Scott & Grahn, LLP

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9589 0710 5270 1623 2617 14

HENDERSON MICHAEL
716 HENDERSON RD
EUBANK, KY 42567

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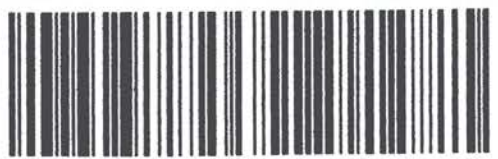
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ClarkQuinn
Clark, Quinn, Moses, Scott & Grahn, LLP

CERTIFIED MAIL



9589 0710 5270 1623 2617 21

MOUNCE LOUIE C & BETTY ANN
165 SAVANNAH TRAIL
EUBANK, KY 42567

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9589 0710 5270 1623 2617 38

ROARK EMILY
450 YANCEY RD
EUBANK, KY 42567

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Clark, Quinn, Moses, Scott & Grahn, LLP

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9589 0710 5270 1623 2617 45

ROARK EMILY N & DANIEL W
450 YANCEY RD
EUBANK, KY 42567

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US POSTAGE IMPITNEY BOWES



ZIP 46204 **\$ 008.53⁰**
02 7H
0006035028 NOV 22 2023

SKAGGS EVERETT & NELL
10311 HWY 39
SOMERSET, KY 42503

CERTIFIED MAIL[®]

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



9589 0710 5270 1623 2617 69

FIRST-CLASS



US POSTAGE IMPITNEY BOWES



ZIP 46204 **\$ 008.53⁰**
02 7H
0006035028 NOV 22 2023

WITT STANLEY & JO ANN
4870 E HWY 452
EUBANK, KY 42567

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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. 	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p>	
1. Article Addressed to:	B. Received by (Printed Name)	C. Date of Delivery
<p>PRICE ALEX S & AMANDA K 290 HENDERSON RD EUBANK, KY 42567</p>		11-26-21
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
	<p>3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Mail Restricted Delivery (0)</p>	
2. Article Number (Transfer from service label)	84	
9590 9402 8463 3186 7612 52		
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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. 	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p>	
1. Article Addressed to:	B. Received by (Printed Name)	C. Date of Delivery
<p>ALEXANDER WILLIAM E & LOIS 4680 HWY 452 EUBANK, KY 42567</p>		11-28-21
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
	<p>3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Mail Restricted Delivery (0)</p>	
2. Article Number (Transfer from service label)	91	
9590 9402 8463 3186 7613 51		
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt		

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> 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. 	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p>	
1. Article Addressed to:	B. Received by (Printed Name)	C. Date of Delivery
<p>MOUNCE LOUIE C & BETTY ANN 165 SAVANNAH TRAIL EUBANK, KY 42567</p>		11-28-21
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
	<p>3. Service Type <input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Adult Signature <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Adult Signature Restricted Delivery <input type="checkbox"/> Registered Mail Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Signature Confirmation® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Mail Restricted Delivery (0)</p>	
2. Article Number (Transfer from service label)	21	
9590 9402 8463 3186 7622 59		
PS Form 3811, July 2020 PSN 7530-02-000-9053 Domestic Return Receipt		

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

LOVELESS SPENCER & GLENN E
 2530 TEXAS SCHOOL RD
 EUBANK, KY 42567



9590 9402 8463 3186 7612 21

2. Article Number (Transfer from service label)

9589 0710 5270 1623 2609 15

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee

X

B. Received by (Printed Name) Agent Addressee
 C. Date of Delivery 11-28-21

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

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation®
 - Signature Confirmation Restricted Delivery

Mail Restricted Delivery (00)

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:

ANDERSON JONATHAN & MARY
 650 TEXAS SCHOOL RD
 EUBANK, KY 42567



9590 9402 8463 3186 7612 90

2. Article Number (Transfer from service label)

9589 0710 5270 1623 2616 60

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee

X

B. Received by (Printed Name) Agent Addressee
 C. Date of Delivery 11-25-21

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

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
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation®
 - Signature Confirmation Restricted Delivery

Mail Restricted Delivery (00)

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:

HENDERSON DALE & SHIRLEY
 701 HENDERSON RD
 EUBANK, KY 42567



9590 9402 8463 3186 7622 73

2. Article Number (Transfer from service label)

9589 0710 5270 1623 2617 07

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature Agent Addressee

X

B. Received by (Printed Name) Agent Addressee
 C. Date of Delivery 11-28-21

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

3. Service Type
- Adult Signature
 - Adult Signature Restricted Delivery
 - Certified Mail®
 - Certified Mail Restricted Delivery
 - Collect on Delivery
 - Collect on Delivery Restricted Delivery
 - Priority Mail Express®
 - Registered Mail™
 - Registered Mail Restricted Delivery
 - Signature Confirmation®
 - Signature Confirmation Restricted Delivery

Mail Restricted Delivery (00)

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:

ANDERSON ALLEN & PATRICIA
260 HENDERSON RD
EUBANK, KY 42567



9590 9402 8463 3186 7612 69

2. Article Number (Transfer from service label)
9589 0710 5270 1623 2616 77

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X

Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery
11-28-23

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

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

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:

THURMAN DWIGHT & JO CAROL
460 BOB KELLER RD
EUBANK, KY 42567



9590 9402 8463 3186 7613 06

2. Article Number (Transfer from service label)
9589 0710 5270 1623 2616 53

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X

Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery
11-28-23

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

3. Service Type

Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Mail Restricted Delivery (00)

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

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:

ROARK EMILY N & DANIEL W
450 YANCEY RD
EUBANK, KY 42567



9590 9402 8463 3186 7622 35

2. Article Number (Transfer from service label)
9589 0710 5270 1623 2617 45

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X

Agent
 Addressee

B. Received by (Printed Name)

C. Date of Delivery
11-28-23

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

3. Service Type

Adult Signature
 Adult Signature Restricted Delivery
 Certified Mail®
 Certified Mail Restricted Delivery
 Collect on Delivery
 Collect on Delivery Restricted Delivery
 Mail Restricted Delivery (00)

Priority Mail Express®
 Registered Mail™
 Registered Mail Restricted Delivery
 Signature Confirmation™
 Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

HENDERSON MICHAEL
716 HENDERSON RD
EUBANK, GA 30257



9590 9402 8463 3186 7622 66

2. Article Number (Transfer from service label)

9589 0710 5270 1623 2617 14

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

Agent

Addressee

B. Received by (Printed Name)

C. Date of Delivery

11-26-23

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

3. Service Type

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

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:

SKAGGS EVERETT & NELL
10311 HWY 39
SOMERSET, KY 42503



9590 9402 8463 3186 7622 28

2. Article Number (Transfer from service label)

9589 0710 5270 1623 2617 52

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Nell Skaggs*

- Agent
- Addressee

B. Received by (Printed Name)

Nell Skaggs

C. Date of Delivery

11-28-23

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
- Priority Mail Express®
- Registered Mail™
- Registered Mail Restricted Delivery
- Signature Confirmation™
- Signature Confirmation Restricted Delivery

Mail Restricted Delivery (00)

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:

WITT, STANLEY & JO ANN
4870 E HWY 452
EUBANK, KY 42567



9590 9402 8463 3186 7622 11

2. Article Number (Transfer from service label)

9589 0710 5270 1623 2617 69

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Stanley Witt

Agent

Addressee

B. Received by (Printed Name)

Stanley Witt

C. Date of Delivery

11-30-23

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

P.O. Eubank Ky 42567

3. Service Type

Adult Signature

Adult Signature Restricted Delivery

Certified Mail®

Certified Mail Restricted Delivery

Collect on Delivery

Collect on Delivery Restricted Delivery

Insured Mail

Mail Restricted Delivery (00)

Priority Mail Express®

Registered Mail™

Registered Mail Restricted Delivery

Signature Confirmation™

Signature Confirmation Restricted Delivery

ClarkQuinn
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CERTIFIED MAIL®



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FIRST-CLASS



US POSTAGE IMPITNEY BOWES



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450 YANCEY RD
EUBANK, KY 42567

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RETURN TO SENDER
UNCLAIMED
UNABLE TO FORWARD

MANUAL PROC REQ *2112-81717-22-39

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42567-977080



Tracking Number:

[Remove X](#)

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[Copy](#)

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

Latest Update

Your item was picked up at the post office at 11:13 am on November 30, 2023 in EUBANK, KY 42567.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivered

Delivered, Individual Picked Up at Post Office

EUBANK, KY 42567

November 30, 2023, 11:13 am

[See All Tracking History](#)

Feedback

[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

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Contact USPS Tracking support for further assistance.

[FAQs](#)

Tracking Number:

[Remove X](#)

9589071052701623260922

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Latest Update

Your item has been delivered to the original sender at 12:16 pm on December 27, 2023 in INDIANAPOLIS, IN 46204.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivered

Delivered, To Original Sender

INDIANAPOLIS, IN 46204

December 27, 2023, 12:16 pm

[See All Tracking History](#)

Feedback

[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](#)



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

November 22, 2023

Via Certified Mail, Return Receipt Requested

Hon. Marshall Todd
Pulaski County Judge/Executive
100 N. Main Street, Ste 202
Somerset, Ky 42501

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2023-00382
Site Name: ETNA

Dear Judge Todd:

Cellco Partnership, d/b/a Verizon Wireless and TowerCo 2013, LLC propose to construct a wireless communications facility on a site located on the north side of Yancy Rd, west of Henderson Road, Eubank, KY 42567. (North Latitude: (37° 14' 04.61", West Longitude 84° 32' 50.39"). The proposed facility will include a 350-foot tall antenna tower, plus a 5-foot lightning arrester and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or 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 2023-00382 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

A handwritten signature in black ink, appearing to read 'R. Brown', written over the typed name.

Attorney for Applicant

Location Map



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FIRST-CLASS



US POSTAGETM PITNEY BOWES



ZIP 46204 \$ 008.53⁰
02 7H
0006035028 NOV 22 2023

Hon. Marshall Todd
Pulaski County Judge/Executive
100 N. Main Street, Ste 202
Somerset, Ky 42501

Tracking Number:

[Remove X](#)

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[Copy](#)

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

Latest Update

Your item was delivered to an individual at the address at 1:30 pm on November 28, 2023 in SOMERSET, KY 42501.

Get More Out of USPS Tracking:

USPS Tracking Plus®

Delivered

Delivered, Left with Individual

SOMERSET, KY 42501

November 28, 2023, 1:30 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)

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Text & Email Updates



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Product Information



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Need More Help?

Contact USPS Tracking support for further assistance.

[FAQs](#)

SITE NAME: ETNA 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.

TowerCo 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 2023-00382 in your correspondence.

TowerCo 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 2023-00382 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: classifieds@somerset-kentucky.com

Commonwealth Journal
110-112 E. Mt. Vernon Street
Somerset, KY 42501

Land Use Consultant
Elizabeth Bentz Williams, AICP

*Also admitted in Montana

†Also admitted in Kentucky
**

Registered Civil Mediator

RE: Legal Notice Advertisement
Site Name: ETNA

To Whom It May Concern,

Please publish the following legal notice advertisement in the next available edition of the Commonwealth Journal:

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 a site located on the north side of Yancy Rd, west of Henderson Road, Eubank, KY 42567. (North Latitude: (37° 14' 04.61", West Longitude 84° 32' 50.39"). The proposed facility will include a 350-foot tall antenna tower, plus a 5-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 2023-00382 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

Design Search Area





Dec 6, 2023

RE: Proposed Verizon Wireless Communications Facility
Site Name: LV Etna

To Whom It May Concern:

As a radio frequency engineer for Verizon Wireless, I am providing this letter to state the need for the Verizon Wireless site called LV Etna and its compliance to RF emission standards as set by FCC. The LV Etna cell site is necessary to achieve coverage and capacity needs in the Etna area, along HWY 39, SR 452, Texas School Rd and to the surrounding residential areas. This site is necessary to provide this coverage and capacity that cannot be established in any other manner. This new tower is required as there is no other means of providing this service in this area.

Whenever possible, Verizon Wireless seeks out colocation opportunities. Colocation allows Verizon Wireless to increase capacity, coverage and services in a targeted area in a more timely manner and at less cost than building a new raw land site.

The height for the LV Etna site was determined through in-depth terrain modeling as well as signal propagation modeling. Due to the rising and falling terrain combine with the dense wooded area, it was determined that a centerline height of 350 feet was necessary to provide adequate coverage in the area. A lower height would greatly reduce coverage and result in the inability of the LV Etna site to operate properly in the Verizon Network.

The site will provide the quality coverage our customers expect and rely on; Customers will experience access to mobile voice and wireless data services previously unavailable, and support Homeland Security through enhanced 911 services.

This cell site has been designed, and will 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.

RF emission readings at this site in the accessible areas would be well below the applicable limits for FCC Uncontrolled/General Population and FCC Controlled/Occupational environments as outlined in 47 CFR 1.1301 through 1.1319. The site would carry appropriate RF emission signage to the public entering the site area.

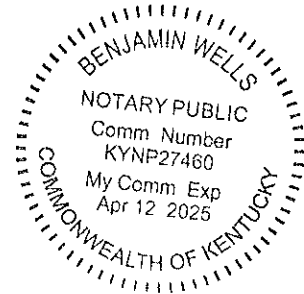
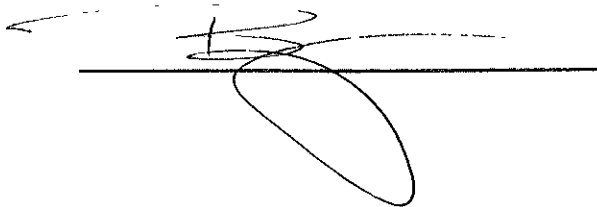
This site would transit frequencies within the licensed frequency bands and the power limitations set by FCC regulatory authority. The site would go through the complete rigorous regulatory process before it comes on-air to provide service to our customers.

Sincerely,



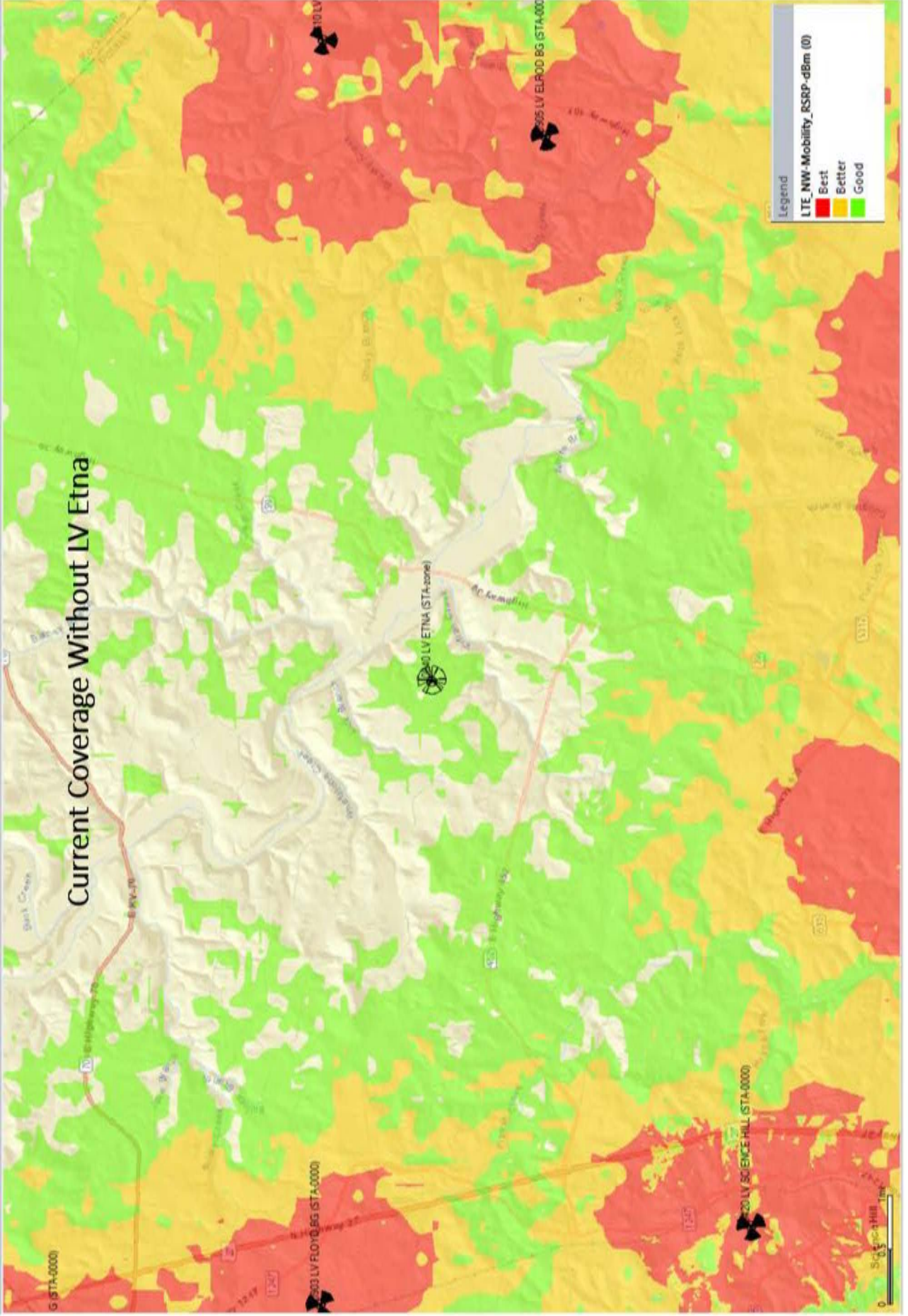
Gordon Snyder
RF Engineer, Verizon Wireless

Gordon Snyder
appeared before me and signed
this 16 day of January,
2024.

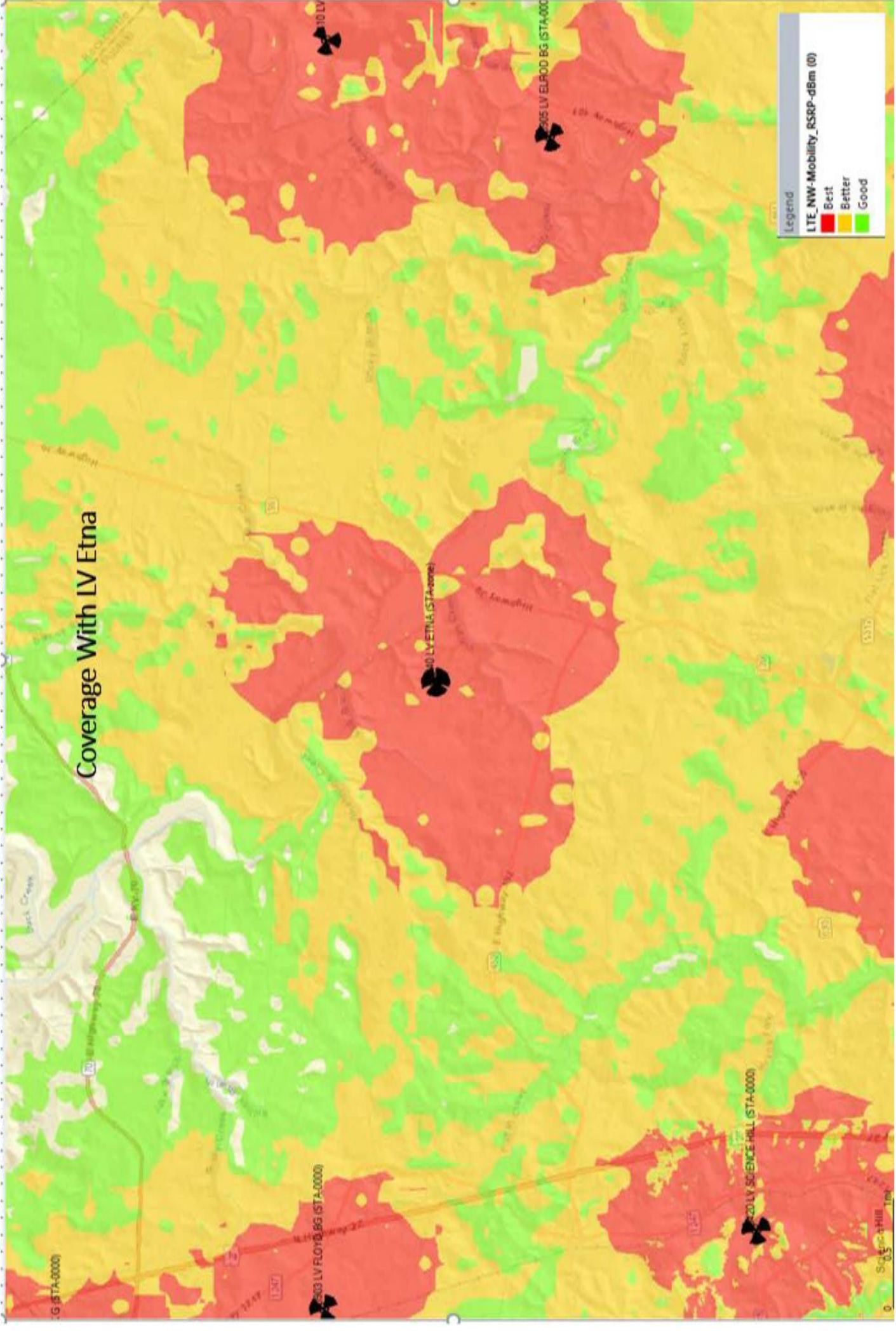


LV Etna Plots

Current Coverage Without LV Etna



Coverage With LV Etna



Legend

LTE_NW_Mobility_RSRRP-dBm (0)

- Best
- Better
- Good

Exhibit S
List of Qualified Professionals

Mark E. Patterson
Professional Land Surveyor
Kentucky License 3136
Power of Design
11490 Bluegrass Parkway
Louisville, KY 40299

Mark E. Patterson
Professional Engineer
Kentucky License 16300
Power of Design
11490 Bluegrass Parkway
Louisville, KY 40299

Robert E. Beacom
Professional Engineer
Kentucky License 28165
Sabre Industries, Inc.
7101 Southbridge Drive
P.O. Box 658
Sioux City, IA 51102

Billy Waldrige Jr.
Construction Manager
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

Gordon Snyder
RF Engineer
Verizon Wireless
2421 Holloway Road
Louisville, KY 40299

