

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

In the Matter of:

THE APPLICATION OF)	
THE TOWERS, LLC D/B/A VERTICAL BRIDGE)	
AND RURAL CELLULAR CORPORATION)	
D/B/A VERIZON WIRELESS)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC)	CASE NO.: 2025-00176
CONVENIENCE AND NECESSITY TO CONSTRUCT)	
A WIRELESS COMMUNICATIONS FACILITY)	
IN THE COMMONWEALTH OF KENTUCKY)	
IN THE COUNTY OF CASEY)	

SITE NAME: CROCKETS TRAIL

* * * * *

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

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

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

1. The complete name and address of the Applicants are: The Towers, LLC d/b/a Vertical Bridge, a Delaware limited liability company, having an address of 750 Park

of Commerce Drive, Suite 200, Boca Raton, Florida 33487 and Rural Cellular Corporation d/b/a Verizon Wireless, having an address of 2421 Holloway Road, Louisville, Kentucky 40299.

2. 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 Applicants submit this application to the PSC for a certificate of public convenience and necessity pursuant to KRS §§ 278.020(1), 278.040, 278.650, 278.665, and other statutory authority.

3. The Towers, LLC d/b/a Vertical Bridge is a limited liability company organized in the State of Delaware. The Towers, LLC's Certificate of Good Standing issued by the State of Delaware is attached as part of **Exhibit A** and hereby incorporated by reference. The Towers, LLC is in good standing in the state in which it is organized and further states that it is authorized to transact business in Kentucky, and a copy of the Certificate of Authorization issued by the Kentucky Secretary of State is attached as part of **Exhibit A** and is hereby incorporated by reference.

4. Rural Cellular Corporation is a corporation organized in the State of Minnesota. Rural Cellular Corporation's Certificate of Good Standing issued by the State of Minnesota is attached as part of **Exhibit A** and hereby incorporated by reference. Rural Cellular Corporation is in good standing in the state in which it is organized and further states that it is authorized to transact business in Kentucky, and a copy of the Certificate of Authorization issued by the Kentucky Secretary of State is attached as part of **Exhibit A** and is hereby incorporated by reference.

5. Rural Cellular Corporation d/b/a Verizon Wireless operates on frequencies

licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of Rural Cellular Corporation d/b/a Verizon Wireless' FCC applications and licenses to provide wireless services are attached to this Application or described as part of **Exhibit A**, and the facility will be constructed and operated in accordance with applicable FCC regulations.

6. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve wireless services to an area currently not served or not adequately served by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. The WCF will provide a necessary link in Verizon Wireless' communications network that is designed to meet the increasing demands for wireless services in Kentucky's wireless communications service area. The WCF is an integral link in Verizon Wireless' network design that must be in place to provide adequate coverage to the service area.

7. To address the above-described service needs, Applicants propose to construct a WCF in a lease area located at 111 Deany Vannoy Road, Liberty, KY 42539 (37° 16' 07.59" North latitude, 85° 03' 17.61" West longitude) 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 Goldia J. Kincaid and Wiley D. Vannoy, Co-Trustees of The Kincaid and Vannoy Real Estate Trust dated February 25, 2023 pursuant to a deed recorded at Deed Book 345, Page 635 in the office of the County Clerk. The proposed WCF will consist of a 255-foot tall self-support tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 265-feet. The WCF will

also include concrete foundations and a shelter or cabinets to accommodate the placement of radio electronics equipment and appurtenant equipment. The 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 B** and **Exhibit C**.

8. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete is attached as **Exhibit D**.

9. 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 Verizon Wireless has also been included as part of **Exhibit B**.

10. 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 C**.

11. Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and have 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 antennas on an existing structure. When suitable towers or structures exist, carriers attempt to co-locate on existing structures such as communications towers or other structures capable of supporting carrier's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

12. A Determination of No Hazard to Air Navigation issued by the Federal Aviation Administration ("FAA") for the proposed tower is attached as **Exhibit E**.

13. A copy of the Kentucky Airport Zoning Commission ("KAZC") application for the proposed construction is attached as **Exhibit F**.

14. A geotechnical engineering firm has performed soil boring(s) and subsequent geotechnical engineering studies at the WCF site. A copy of the geotechnical engineering report, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, is attached as **Exhibit G**. The name and address of the geotechnical engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included as part of this exhibit.

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

16. The Towers, LLC, 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 I**.

17. 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 C** 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.

18. The Construction Manager for the proposed facility is Josh Sizemore and the

identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibits B & C**.

19. As noted on the Survey attached as part of **Exhibit B**, the surveyor has determined that the site is not within any flood hazard area.

20. **Exhibit B** includes a map drawn to an appropriate scale that shows the location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower (according to the records maintained by the County Property Valuation Administrator). 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 is illustrated in **Exhibit B**.

21. Applicants have sent notice to every person who, according to the records of the County Property Valuation Administrator (“PVA”), 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 has been informed of his or her right to request intervention. A list of the notified property owners and a copy of the form of the notice sent by certified mail to each landowner are attached as **Exhibit J** and **Exhibit K**, respectively.

22. Copies of the Casey County PVA records obtained on June 9, 2025 (and re-verified on August 15, 2025) and used to generate the notice list are attached as part of **Exhibit J**.

23. Eleven notice letters were sent to the landowners on the notice list at the mailing addresses shown on the PVA records. Copies of the “Certified Mail Receipts”

confirming the dates on which the letters were sent are attached as part of **Exhibit J**.

24. Ten signed United States Postal Service Form 3811 “green cards” have been returned. Copies of the returned “green cards” are attached as a part of **Exhibit J**. One notice letter was returned and marked “Return to Sender / Unclaimed / Unable to Forward.” A copy of the returned undelivered letter is attached as part of **Exhibit J**. There are no unaccountable notices.

25. 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 is attached as **Exhibit L**. A copy of the “Certified Mail Receipt” and a copy of the USPS Form 3811 “green card” for this mailing are also attached as a part of **Exhibit L**.

26. 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 M**. 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 tear sheet from the newspaper that includes the notice advertisement and an affidavit from the publisher certifying that the notice advertisement was published are attached as part of **Exhibit M**.

27. The general area where the proposed facility will be located is predominantly

rural in character and consists primarily of agricultural uses and sparse residential uses. The site parcel itself is currently used for agricultural purposes.

28. The process that was used by Verizon Wireless' 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. Verizon Wireless' 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 Applicants when searching for sites for its antennas that would provide the coverage deemed necessary by Verizon Wireless' Radio Frequency Engineers. 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 N**.

29. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area.

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

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

David A. Pike and

F. Keith Brown
Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpike@pikelegal.com
kbrown@pikelegal.com

WHEREFORE, 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,



David A. Pike
And



F. Keith Brown

Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpike@pikelegal.com
Email: kbrown@pikelegal.com
Attorneys for Applicants

LIST OF EXHIBITS

- A - Business Documentation & FCC Documentation
- B - Site Development Plan:
 - 500' Vicinity Map
 - Legal Descriptions
 - Flood Plain Certification
 - Site Plan
 - Vertical Tower Profile
- C - Tower and Foundation Design
 - Construction Manager Letter
 - List of Qualified Professionals
 - Tower and Foundation Drawings
- D - Competing Utilities, Corporations, or Persons List
- E - Federal Aviation Administration Documentation
- F - Kentucky Airport Zoning Commission Documentation
- G - Geotechnical Report
- H - Directions to WCF Site
- I - Copy of Real Estate Agreement
- J - Notification Listing, PVA Records & Proof of Notice
- K - Copy of Property Owner Notification
- L - Copy of County Judge/Executive Notice & Proof of Notice
- M - Copy of Posted Notices, Newspaper Notice Advertisement Tear Sheet and Affidavit
- N - Copy of Radio Frequency Design Search Area

EXHIBIT A

**BUSINESS DOCUMENTATION & FCC LICENSE
DOCUMENTATION**

Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "THE TOWERS, 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 SIXTH DAY OF DECEMBER, A.D. 2024.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "THE TOWERS, LLC" WAS FORMED ON THE TWENTY-FOURTH DAY OF MARCH, A.D. 2023.

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



7370717 8300

SR# 20244414963

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

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.

Authentication: 205056961

Date: 12-06-24

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: 307364

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

THE TOWERS, LLC

, a limited liability company authorized under the laws of the state of Florida, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on February 22, 2024.

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 18th day of March, 2024, in the 232nd year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
307364/1343772



COMMONWEALTH OF KENTUCKY
MICHAEL G. ADAMS, SECRETARY OF STATE

1343772.06

mmoore
AOC

Michael G. Adams
Kentucky Secretary of State
Received and Filed:
12/13/2024 1:54 PM
Fee Receipt: \$20.00

Division of Business Filings
Business Filings
P.O. Box 718,
Frankfort, KY 40602
(502) 564-3490
sosfilings@ky.gov to submit via email
Filing Fee: \$15.00 (\$20.00 for LLC)

Articles of Correction

AOC

Pursuant to the provisions of KRS 14A-2.090, the undersigned applies correct articles and for that purpose, submits the following statement:

1. Name of the entity is: THE TOWERS, LLC
Document to be corrected is: Certificate of Authority
Date the document being corrected was originally filed: 2/22/2024

2. Please specify the inaccuracies or defects to be corrected:
The domestic state in item 4 was incorrectly typed in as Florida.

3. The inaccuracy or defect stated above should be corrected as follows:
The state or county under whose law the entity is organized is: Delaware

I declare under penalty of perjury under the laws of Kentucky that the forgoing is true and correct.

<u>/s/ Allison Cannella</u>	<u>Allison Cannella</u>	<u>Authorized Person</u>	<u>12/12/2024</u>
Signature	Printed Name	Title	Date

1343772.06

mmoore
ADD

Michael G. Adams
 Kentucky Secretary of State
 Received and Filed:
 2/22/2024 11:15 AM
 Fee Receipt: \$90.00



COMMONWEALTH OF KENTUCKY
 MICHAEL G. ADAMS, SECRETARY OF STATE

Division of Business Filings
 P.O. Box 718
 Frankfort, KY 40602
 (502) 564-3490
www.sos.ky.gov

Certificate of Authority
 (Foreign Business Entity)

FBE

Pursuant to the provisions of KRS 14A - 030 the undersigned hereby applies for authority to transact business in Kentucky on behalf of the entity named below and, for that purpose, submits the following statements:

1. The entity is a:
- | | | |
|--|---|---|
| <input type="checkbox"/> profit corporation | <input type="checkbox"/> nonprofit corporation | <input type="checkbox"/> professional limited liability company |
| <input type="checkbox"/> business trust | <input checked="" type="checkbox"/> limited liability company | <input type="checkbox"/> statutory trust |
| <input type="checkbox"/> limited partnership | <input type="checkbox"/> lld cooperative association | <input type="checkbox"/> public benefit corporation |
| <input type="checkbox"/> non-profit ltc | <input type="checkbox"/> professional service corporation | <input type="checkbox"/> other |

2. The name of the entity is THE TOWERS, LLC
 (The name must be identical to the name on record with the Secretary of State.)

3. The name of the entity to be used in Kentucky is (if applicable): _____
 (Only provide if "real name" is unavailable for use; otherwise, leave blank.)

4. The state or country under whose law the entity is organized is FLORIDA

5. The date of organization is 03/24/2023 and the period of duration is _____
 (If left blank, duration is considered perpetual.)

6. The mailing address of the entity's principal office is
750 PARK OF COMMERCE DR, STE 200 BOCA RATON FL 33487
 Street Address City State Zip Code

7. The street address of the entity's registered office in Kentucky is
828 Lane Allen Road Suite 219 Lexington KY 40504
 Street Address (No P.O. Box Numbers) City State Zip Code

and the name of the registered agent at that office is Cogency Global Inc.

8. The names and business addresses of the entity's representatives (secretary, officers and directors, managers, trustees or general partners):

<u>Ron Bizick</u>	<u>750 Park of Commerce Dr Ste 2</u>	<u>Boca Raton</u>	<u>FL</u>	<u>33487</u>
Name	Street or P.O. Box	City	State	Zip Code
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Name	Street or P.O. Box	City	State	Zip Code
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
Name	Street or P.O. Box	City	State	Zip Code

9. If a professional service corporation, all the individual shareholders, not less than one half (1/2) of the directors, and all of the officers other than the secretary and treasurer are licensed in one or more states or territories of the United States or District of Columbia to render a professional service described in the statement of purposes of the corporation.

10. I certify that, as of the date of filing this application, the above-named entity validly exists under the laws of the jurisdiction of its formation.

11. If a limited partnership, it elects to be a limited liability limited partnership. Check the box if applicable: ☐

12. If a limited liability company, check box if manager-managed: ☐

13. This application will be effective upon filing.

[Signature] Ron Bizick, CEO 02/05/2024
 Signature of Authorized Representative Printed Name & Title Date

I, Cogency Global Inc., consent to serve as the registered agent on behalf of the business entity.
 Type/Print Name of Registered Agent

Joelle Churik Joelle Churik Asst. Secretary 02/06/2024
 Signature of Registered Agent Printed Name Title Date

**Office of the Minnesota Secretary of State
Certificate of Good Standing**

I, Steve Simon, Secretary of State of Minnesota, do certify that: The business entity listed below was filed pursuant to the Minnesota Chapter listed below with the Office of the Secretary of State on the date listed below and that this business entity is registered to do business and is in good standing at the time this certificate is issued.

Name:	Rural Cellular Corporation
Date Filed:	10/01/1990
File Number:	6U-804
Minnesota Statutes, Chapter:	302A
Home Jurisdiction:	Minnesota

This certificate has been issued on: 01/15/2025



A handwritten signature in black ink that reads "Steve Simon".

Steve Simon
Secretary of State
State of Minnesota

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: 326532

Visit <https://web.sos.ky.gov/ftsshow/certvalidate.aspx> to authenticate this certificate.

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

RURAL CELLULAR CORPORATION

, a corporation organized under the laws of the state of Minnesota, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on February 3, 2011.

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 January, 2025, in the 233rd year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
326532/0783682

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				
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

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
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

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

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.
----------	----------	-----------	------------------------------	----------------------------------	---------------------------------------

9 37-52-45.3 N 084-19-32.8 W

277.0

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.
----------	----------	-----------	------------------------------	----------------------------------	---------------------------------------

12 37-21-22.3 N 084-55-12.8 W

336.0

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: BERE A CELL SITE: 3.5 KILOMETERS SOUTHWEST OF

City: BERE A 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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ULS Application

0011607899 - AST & Science, LLC

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MAIN	ADMIN	LEASE INFO	LEASES	DATES	REVENUE
File Number	0011607899			Application Status	2 - Pending
Application Purpose	LN - New Lease			Classification of Lease	Spectrum Manager

General Information

Application Purpose	LN - New Lease		
Receipt Date	06/12/2025		
Entered Date	06/12/2025	Action Date	06/13/2025
Waiver	Yes	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003715919 (View Ownership Filing)	Type	Corporation
Name	Rural Cellular Corporation ATTN Network Engineering 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022		P:(770)797-1070 E:licensingcompliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
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Lessee Information

FRN	0027863257 (View Ownership)	Type	Limited Liability Company
Name	AST & Science, LLC ATTN Andrew Johnson 2901 Enterprise Lane Midland, TX 79706		P:(432)276-3966 E:andrew.johnson@ast-science.com
Real Party In Interest	AST & Science, LLC	FRN of Real Party in Interest	0027863257
Race		Sex	
Ethnicity			

Lessee Contact Information

Name	Greenberg Traurig, LLP Timothy Bransford ATTN Timothy Bransford 2101 L St NW, Ste. 1000 Washington, DC 20037	P:(202)331-3103 E:Timothy.bransford@gtlaw.com
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Lessee Qualifications and Ownership Information

Radio Service
Type

Regulatory Status Interconnected

Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

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FEDERAL COMMUNICATIONS COMMISSION
Wireless Telecommunications Bureau

Spectrum Leasing Arrangement

07/08/2025

ATTN: REGULATORY
RURAL CELLULAR CORPORATION
1120 SANCTUARY PKWY #150 - GASA5REG
ALPHARETTA, GA 30009

Reference Number:

This approval allows the Lessee to lease spectrum from the Licensee pursuant to the provisions and requirements of Subpart X of Part 1 of the Commission's Rules, 47 C.F.R. Part 1, and as described in the associated spectrum leasing application or notification.

Type of Lease Arrangement	Lease Term	Lease Identifier
Spectrum Manager Lease	Long Term	L000008937

Lease Grant/Accepted Date	Lease Commencement Date	Lease Expiration Date
11/04/2011	10/06/2011	06/13/2029

Call Sign	Radio Service
WQJQ692	WU - 700 MHz Upper Band (Block C)

Lessee Information
0003715919
RURAL CELLULAR CORPORATION
Attn: REGULATORY
1120 SANCTUARY PKWY #150 - GASA5REG
ALPHARETTA, GA 30009

Licensee Information
0003290673
CELLCO PARTNERSHIP
Attn: REGULATORY
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Geographically-Licensed Services		
Market Number	Market Name	Channel Block
REA004	Mississippi Valley	C

Condition:

This lease may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum associated with this leasing agreement, 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 <https://www.fcc.gov/wireless/universal-licensing-system> and select "License Search". Follow the instructions on how to search for license information.

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.



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ULS Application

0008621597 - Rural Cellular Corporation

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File Number	0008621597	Application Status	Q - Accepted
Application Purpose	LE - Extend Term of a Lease	Classification of Lease	Spectrum Manager

General Information

Application Purpose	LE - Extend Term of a Lease		
Receipt Date	04/30/2019		
Entered Date	04/30/2019	Action Date	01/16/2020
Waiver	No	Number of Rules	
Attachments	No		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022		P:(770)797-1070 E:LicensingCompliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
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Lessee Information

FRN	0003715919 (View Ownership)	Type	Corporation
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Name	Rural Cellular Corporation ATTN Regulatory 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
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Real Party In Interest	Cellco Partnership	FRN of Real Party in Interest	0003290673
Race		Sex	
Ethnicity			

Lessee Contact Information

Name	Verizon Sarah Trosch 1300 I Street, NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WPZX945	File Number 0009262040
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 09-06-2019	Effective Date 01-13-2021	Expiration Date 09-29-2029	Print Date 03-10-2021
Market Number BTA423	Channel Block C	Sub-Market Designator 2	
Market Name Somerset, KY			
1st Build-out Date 09-29-2004	2nd Build-out Date 09-29-2009	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: 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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ULS Application

PCS Broadband - 0008710689 - Bluegrass Wireless LLC

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File Number	0008710689	Radio Service	CW - PCS Broadband
Call Sign	WPZX945	Application Status	G - Granted

General Information

Application Purpose	RO - Renewal Only	Emergency STA	
Existing Radio Service		Action Date	09/06/2019
Authorization Type	Regular	Requested Expiration Date	
Receipt Date	07/01/2019	Number of Rules	
Entered Date	07/01/2019	Grandfathered Privileges	
Waiver	No	Regulatory Fee Exempt	No
Attachments			
Application Fee Exempt	No		
Major Request			
Use Question			

Market Data

Market	BTA423 - Somerset, KY	Channel Block	C
Submarket Designator	2	Associated Frequencies (MHz)	001895.00000000-001910.00000000-001975.00000000-001990.00000000

Applicant Information

FRN	0010698868 (View Ownership Filing)	Type	Limited Liability Company
Name	Bluegrass Wireless LLC P.O. Box 5012 Elizabethtown, KY 42702-5012 ATTN Ronald R. Smith		P:(270)769-0339 F:(270)769-0745

Real Party in
Interest

FRN of Real
Party in Interest

Contact Information

Name	Lukas, LaFuria, Gutierrez & Sachs, LLP Pamela L Gist , Esq 8300 Greensboro Drive, Suite 1200 Tysons, VA 22102	P:(703)584-8665 F:(730)584-8696 E:pgist@fcclaw.com
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Qualifications, Ownership

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

Demographics

Race	
Ethnicity	Sex

Additional Certifications

Operation/Performance Requirement Certification

For a site-based license

Applicant certifies that it is continuing to operate consistent with its most recently filed construction notification (or most recent authorization, if no construction notification was required).

For a geographic license, commercial service - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to provide at least the level of service required by its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of any subsequent license terms.

For a geographic license, private systems - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its final performance requirement through the end of any subsequent license terms.

For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.

Applicant certifies that the partitioned and/or disaggregated license that is the subject of this renewal application has no separate performance requirement and that this is the first renewal of this license filed subsequent 10/01/2020.

For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings

Applicant certifies that it continues to use its facilities to provide service or to further the applicant's private business or public interest/public safety needs.

Discontinuance of Service Certification

Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term.

Regulatory Compliance Certification

Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended.

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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: LICENSING MANAGER
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 5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
 ALPHARETTA, GA 30022

Call Sign WQCS428	File Number 0011447062
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 06-16-2025	Effective Date 06-16-2025	Expiration Date 05-13-2035	Print Date 06-17-2025
Market Number BTA252	Channel Block C	Sub-Market Designator 1	
Market Name Lexington, KY			
1st Build-out Date 05-13-2010	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: WQCS428

File Number: 0011447062

Print Date: 06-17-2025

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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ULS Application

PCS Broadband - 0011447062 - Cellco Partnership

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File Number 0011447062

Radio Service CW - PCS Broadband

Call Sign [WQCS428](#)

Application Status G - Granted

General Information

Application Purpose RO - Renewal Only

Existing Radio Service

Authorization Type Regular

Emergency STA

Receipt Date 02/12/2025

Action Date 06/16/2025

Entered Date 02/12/2025

Requested Expiration Date

Waiver No

Number of Rules

Attachments [Yes](#)

Grandfathered Privileges No

Application Fee Exempt No

Regulatory Fee Exempt No

Major Request

Use Question Commercial

Market Data

Market BTA252 - Lexington, KY

Channel Block C

Submarket Designator 1

Associated Frequencies (MHz) 001895.00000000-001910.00000000-001975.00000000-001990.00000000

Applicant InformationFRN 0003290673
([View Ownership Filing](#))

Type Partnership

Name Cellco Partnership
5055 North Point Pkwy, NP2NE
Network Engineering
Alpharetta, GA 30022
ATTN Licensing ManagerP:(770)797-1070
F:(770)797-1036
E:LicensingCompliance@VerizonWireless.com

FRN of Real
Party in
Interest

Name	Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
------	---	---

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

Race

Ethnicity

Sex

Operation/Performance Requirement Certification

Applicant certifies that it is continuing to operate consistent with its most recently filed construction notification (or most recent authorization, if no construction notification was required).

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to provide at least the level of service required by its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

Applicant certifies that it has met its final performance requirement and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

Applicant certifies that it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of any subsequent license terms.	Yes
---	-----

For a geographic license, private systems - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its final performance requirement through the end of any subsequent license terms.

For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.

Applicant certifies that the partitioned and/or disaggregated license that is the subject of this renewal application has no separate performance requirement and that this is the first renewal of this license filed subsequent 10/01/2020.

For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings

Applicant certifies that it continues to use its facilities to provide service or to further the applicant's private business or public interest/public safety needs.

Discontinuance of Service Certification

Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term. Yes

Regulatory Compliance Certification

Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended. Yes

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**Federal Communications Commission
Wireless Telecommunications Bureau****RADIO STATION AUTHORIZATION****LICENSEE:** CELLCO PARTNERSHIP

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

Call Sign WQCS429	File Number 0011447076
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 06-16-2025	Effective Date 06-16-2025	Expiration Date 05-13-2035	Print Date 06-17-2025
Market Number BTA263	Channel Block C	Sub-Market Designator 5	
Market Name Louisville, KY			
1st Build-out Date 05-13-2010	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.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQCS429

File Number: 0011447076

Print Date: 06-17-2025

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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ULS Application

PCS Broadband - 0011447076 - Cellco Partnership

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File Number 0011447076

Radio Service CW - PCS Broadband

Call Sign [WQCS429](#)

Application Status G - Granted

General Information

Application Purpose RO - Renewal Only

Existing Radio Service

Authorization Type Regular

Emergency STA

Receipt Date 02/12/2025

Action Date 06/16/2025

Entered Date 02/12/2025

Requested Expiration Date

Waiver No

Number of Rules

Attachments [Yes](#)

Grandfathered Privileges No

Application Fee Exempt No

Regulatory Fee Exempt No

Major Request

Use Question Commercial

Market Data

Market BTA263 - Louisville, KY

Channel Block C

Submarket Designator 5

Associated Frequencies (MHz) 001895.00000000-001910.00000000-001975.00000000-001990.00000000

Applicant InformationFRN 0003290673
([View Ownership Filing](#))

Type Partnership

Name Cellco Partnership
5055 North Point Pkwy, NP2NE
Network Engineering
Alpharetta, GA 30022
ATTN Licensing ManagerP:(770)797-1070
F:(770)797-1036
E:LicensingCompliance@VerizonWireless.com

FRN of Real
Party in
Interest

Name	Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com
------	---	---

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

Race

Ethnicity

Sex

Operation/Performance Requirement Certification

Applicant certifies that it is continuing to operate consistent with its most recently filed construction notification (or most recent authorization, if no construction notification was required).

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to provide at least the level of service required by its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

Applicant certifies that it has met its final performance requirement and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

Applicant certifies that it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of any subsequent license terms.	Yes
---	-----

For a geographic license, private systems - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its final performance requirement through the end of any subsequent license terms.

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Applicant certifies that the partitioned and/or disaggregated license that is the subject of this renewal application has no separate performance requirement and that this is the first renewal of this license filed subsequent 10/01/2020.

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Applicant certifies that it continues to use its facilities to provide service or to further the applicant's private business or public interest/public safety needs.

Discontinuance of Service Certification

Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term. Yes

Regulatory Compliance Certification

Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended. Yes

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

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

FCC Registration Number (FRN): 0003290673

Grant Date 02-22-2022	Effective Date 02-22-2022	Expiration Date 11-29-2036	Print Date 02-23-2022
Market Number REA004	Channel Block F		Sub-Market Designator 15
Market Name Mississippi Valley			
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. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA718

File Number: 0009793647

Print Date: 02-23-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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ULS Application

0011534270 - Trace-Tek

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LEASE INFO

LEASES

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REVENUE

File Number	0011534270	Application Status	G - Granted
Application Purpose	LN - New Lease	Classification of Lease	De Facto Transfer

General Information

Application Purpose	LN - New Lease		
Receipt Date	04/22/2025		
Entered Date	04/22/2025	Action Date	05/08/2025
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Network Engineering 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com
------	--	--	---

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company
-----	--	------	---------------------------

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341	P:(972)672-0477 E:licenses@trace-tek.com
------	---	---

Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
------------------------	-----------	-------------------------------	------------

Race	Sex
------	-----

Ethnicity

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341	P:(972)672-0477 E:licenses@trace-tek.com
------	--	---

Lessee Qualifications and Ownership Information

Radio Service
Type

Regulatory Status	Interconnected
-------------------	----------------

Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

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**Federal Communications Commission
Wireless Telecommunications Bureau****RADIO STATION AUTHORIZATION****LICENSEE: CELLCO PARTNERSHIP**

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

Call Sign WQGA940	File Number 0009774996
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date 12-21-2021	Effective Date 12-21-2021	Expiration Date 11-29-2036	Print Date 12-21-2021
Market Number BEA047	Channel Block B	Sub-Market Designator 11	
Market Name Lexington, KY-TN-VA-WV			
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. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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: 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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ULS Application

0010761275 - Trace-Tek

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File Number	0010761275	Application Status	G - Granted
Application Purpose	AM - Amendment	Classification of Lease	De Facto Transfer

General Information

Application Purpose	AM - Amendment	Original Application Purpose	LN - New Lease
Receipt Date	04/09/2024		See Full Filing History
Entered Date	04/09/2024	Action Date	04/11/2024
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
------	--	---

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company
-----	--	------	---------------------------

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341	P:(972)672-0477 E:licenses@trace-tek.com
------	---	---

Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
------------------------	-----------	-------------------------------	------------

Race	Sex
------	-----

Ethnicity

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341	P:(972)672-0477 E:licenses@trace-tek.com
------	--	---

Lessee Qualifications and Ownership Information

Radio Service
Type

Regulatory Status	Interconnected
-------------------	----------------

Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

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ASL Videophone: 1-844-432-2275
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WQGA958	File Number 0009775568
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date 01-03-2022	Effective Date 01-03-2022	Expiration Date 11-29-2036	Print Date 01-05-2022
Market Number BEA070	Channel Block B	Sub-Market Designator 0	
Market Name Louisville, KY-IN			
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. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA958

File Number: 0009775568

Print Date: 01-05-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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ULS Application

0010856976 - Trace-Tek

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File Number	0010856976	Application Status	G - Granted
Application Purpose	LN - New Lease	Classification of Lease	De Facto Transfer

General Information

Application Purpose	LN - New Lease		
Receipt Date	01/24/2024		
Entered Date	01/24/2024	Action Date	03/05/2024
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
------	--	---

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company
-----	--	------	---------------------------

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341	P:(972)672-0477 E:licenses@trace-tek.com
------	---	---

Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
------------------------	-----------	-------------------------------	------------

Race	Sex
------	-----

Ethnicity

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341	P:(972)672-0477 E:licenses@trace-tek.com
------	--	---

Lessee Qualifications and Ownership Information

Radio Service
Type

Regulatory Status	Interconnected
-------------------	----------------

Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WQGD757	File Number 0010160394
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date 01-10-2022	Effective Date 09-23-2022	Expiration Date 12-18-2036	Print Date 02-10-2023
Market Number BEA070	Channel Block C	Sub-Market Designator 0	
Market Name Louisville, KY-IN			
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. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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. 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: WQGD757

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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ULS Application

AWS (1710-1755 MHz and 2110-2155 MHz) - 0010368581 - NEW CINGULAR WIRELESS PCS, LLC

[? HELP](#)[New Search](#) [Refine Search](#) [Printable Page](#) [Reference Copy](#)**MAIN****ADMIN****TRANS LOG**

File Number	0010368581	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Call Sign	WQGD757	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update
Existing Radio Service	
Authorization Type	Regular
Emergency STA	
Receipt Date	01/13/2023
Action Date	01/14/2023
Entered Date	01/13/2023
Requested Expiration Date	
Waiver	No
Number of Rules	
Attachments	Grandfathered Privileges
Application Fee Exempt	No
Regulatory Fee Exempt	No
Major Request	

Market Data

Market	BEA070 - Louisville, KY-IN	Channel Block	C
Submarket Designator	0	Associated Frequencies (MHz)	001730.00000000-001735.00000000-002130.00000000-002135.00000000

Applicant Information

FRN	0003291192 (View Ownership Filing)	Type	Limited Liability Company
Name	NEW CINGULAR WIRELESS PCS, LLC 208 S. Akard St. 20F Dallas, TX 75202 ATTN FCC Group		P:(855)699-7073 E:FCCMW@att.com

Real Party in
Interest

FRN of Real
Party in Interest

Contact Information

Name AT&T Services, Inc.
 Cecil J Mathew
 208 S. Akard St. 20F
 Dallas, TX 75202

P:(855)699-7073
E:FCCMW@att.com

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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 0008587218
Radio Service WU - 700 MHz Upper Band (Block C)	

FCC Registration Number (FRN): 0003290673

Grant Date 01-10-2020	Effective Date 06-25-2025	Expiration Date 06-13-2029	Print Date 01-14-2020
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: 0008587218

Print Date: 01-14-2020

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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ULS Application

0011641843 - Trace-Tek

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File Number	0011641843	Application Status	2 - Pending
Application Purpose	LN - New Lease	Classification of Lease	De Facto Transfer

General Information

Application Purpose	LN - New Lease		
Receipt Date	07/10/2025		
Entered Date	07/10/2025	Action Date	07/11/2025
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Network Engineering 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com
------	--	--	---

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company
-----	--	------	---------------------------

Name Trace-Tek P:(972)672-0477
 ATTN licenses@trace-tek.com E:licenses@trace-tek.com
 2625 Commons Boulevard
 Beavercreek, OH 45341

Real Party In Trace-Tek FRN of Real 0030856223
Interest Party in
 Interest

Race Sex

Ethnicity

Lessee Contact Information

Name Trace-Tek P:(972)672-0477
 ATTN licenses@trace-tek.com E:licenses@trace-tek.com
 2625 Commons Boulevard
 Beavercreek, OH 45341

Lessee Qualifications and Ownership Information

Radio Service
Type

Regulatory Status Interconnected

Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

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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

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

FCC Registration Number (FRN): 0003715919

Grant Date 11-16-2021	Effective Date 09-23-2022	Expiration Date 11-29-2036	Print Date 02-16-2023
Market Number REA004	Channel Block D	Sub-Market Designator 10	
Market Name Mississippi Valley			
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. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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: 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).

Licensee Name: RURAL CELLULAR CORPORATION

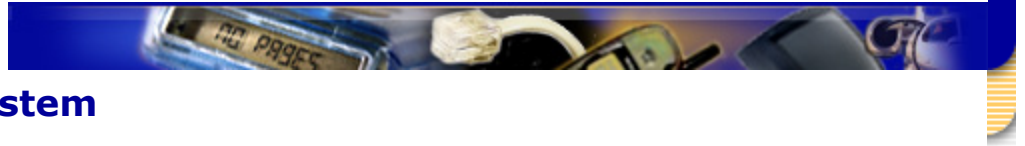
Call Sign: WQUZ670

File Number:

Print Date: 02-16-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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ULS Application

0010409765 - Rural Cellular Corporation

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File Number 0010409765

Application Status Q - Accepted

General Information

Application Purpose NT - Required Notification

Existing Radio Service

Authorization Type

Emergency STA

Receipt Date 02/08/2023

Action Date 02/09/2023

Entered Date 02/08/2023

Requested Expiration Date

Waiver No

Number of Rules

Attachments

Grandfathered Privileges

Application Fee Exempt No

Regulatory Fee Exempt

Major Request

Applicant Information

FRN 0003715919
([View Ownership Filing](#))

Type Corporation

Name Rural Cellular Corporation
5055 North Point Pkwy, NP2NE
Network Engineering
Alpharetta, GA 30022
ATTN RegulatoryP:(770)797-1070
E:Licensing.Compliance@VerizonWireless.com

Real Party in Interest

FRN of Real Party in Interest

Contact Information

Name Verizon
Sarah Trosch
1300 I St NW - Suite 500 East
Washington, DC 20005P:(202)515-2453
E:sarah.trosch@verizon.com

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**Federal Communications Commission**
Wireless Telecommunications Bureau**RADIO STATION AUTHORIZATION**

LICENSEE: RURAL CELLULAR CORPORATION

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

Call Sign WRAM902	File Number 0011499306
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003715919

Grant Date 06-19-2025	Effective Date 06-19-2025	Expiration Date 06-20-2035	Print Date 06-21-2025
Market Number BTA252	Channel Block C	Sub-Market Designator 4	
Market Name Lexington, 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: RURAL CELLULAR CORPORATION

Call Sign: WRAM902

File Number: 0011499306

Print Date: 06-21-2025

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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ULS Application

PCS Broadband - 0011499306 - Rural Cellular Corporation

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File Number	0011499306	Radio Service	CW - PCS Broadband
Call Sign	WRAM902	Application Status	G - Granted

General Information

Application Purpose	RO - Renewal Only
---------------------	-------------------

Existing Radio Service	
------------------------	--

Authorization Type	Regular
--------------------	---------

Emergency STA	
---------------	--

Receipt Date	03/25/2025
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Action Date	06/19/2025
-------------	------------

Entered Date	03/25/2025
--------------	------------

Requested Expiration Date	
---------------------------	--

Waiver	No
--------	----

Number of Rules	
-----------------	--

Attachments	Yes
-------------	---------------------

Grandfathered Privileges	No
--------------------------	----

Application Fee Exempt	No
------------------------	----

Regulatory Fee Exempt	No
-----------------------	----

Major Request	
---------------	--

Use Question	Commercial
--------------	------------

Market Data

Market	BTA252 - Lexington, KY
--------	------------------------

Channel Block	C
---------------	---

Submarket Designator	4
----------------------	---

Associated Frequencies (MHz)	001895.00000000- 001910.00000000- 001975.00000000- 001990.00000000
------------------------------	---

Applicant Information

FRN	0003715919 (View Ownership Filing)
-----	---

Type	Corporation
------	-------------

Name	Rural Cellular Corporation 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Licensing Manager
------	---

P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.com

Real Party in
Interest

FRN of Real
Party in
Interest

Contact Information

Name	Verizon Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
------	--	--

Qualifications, Ownership

Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes

Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

Demographics

Race	
Ethnicity	Sex

Additional Certifications

Operation/Performance Requirement Certification

For a site-based license

Applicant certifies that it is continuing to operate consistent with its most recently filed construction notification (or most recent authorization, if no construction notification was required).

For a geographic license, commercial service - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to provide at least the level of service required by its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of any subsequent license terms.	Yes
---	-----

For a geographic license, private systems - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its final performance requirement through the end of any subsequent license terms.

For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.

Applicant certifies that the partitioned and/or disaggregated license that is the subject of this renewal application has no separate performance requirement and that this is the first renewal of this license filed subsequent 10/01/2020.

For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings

Applicant certifies that it continues to use its facilities to provide service or to further the applicant's private business or public interest/public safety needs.

Discontinuance of Service Certification

Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term. Yes

Regulatory Compliance Certification

Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended. Yes

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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 WRWD815	File Number 0010170266
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 09-23-2022	Effective Date 09-23-2022	Expiration Date 09-06-2025	Print Date 02-10-2023
Market Number BTA263	Channel Block C	Sub-Market Designator 8	
Market Name Louisville, 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

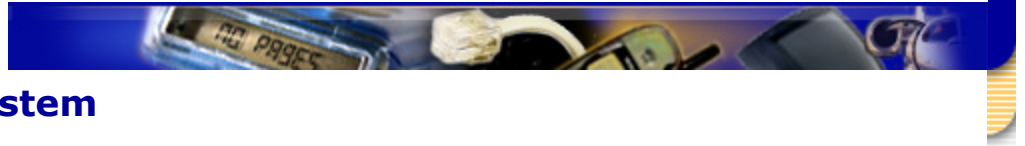
Call Sign: WRWD815

File Number: 0010170266

Print Date: 02-10-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
---------------	--------------------	--------------------------	------------------------------	---------------



Universal Licensing System

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ULS Application

PCS Broadband - 0011603240 - Cellco Partnership

[? HELP](#)[New Search](#) [Refine Search](#) [Printable Page](#) [Reference Copy](#)**MAIN****ADMIN****TRANS LOG**

File Number	0011603240	Radio Service	CW - PCS Broadband
Call Sign	WRWD815	Application Status	2 - Pending

General Information

Application Purpose	RO - Renewal Only
---------------------	-------------------

Existing Radio Service	
------------------------	--

Authorization Type	Regular
--------------------	---------

Emergency STA	
---------------	--

Receipt Date	06/10/2025
--------------	------------

Action Date	06/11/2025
-------------	------------

Entered Date	06/10/2025
--------------	------------

Requested Expiration Date	
---------------------------	--

Waiver	No
--------	----

Number of Rules	
-----------------	--

Attachments	Yes
-------------	---------------------

Grandfathered Privileges	No
--------------------------	----

Application Fee Exempt	No
------------------------	----

Regulatory Fee Exempt	No
-----------------------	----

Major Request	
---------------	--

Use Question	Commercial
--------------	------------

Market Data

Market	BTA263 - Louisville, KY
--------	-------------------------

Channel Block	C
---------------	---

Submarket Designator	8
----------------------	---

Associated Frequencies (MHz)	001895.00000000-001910.00000000-001975.00000000-001990.00000000
------------------------------	---

Applicant Information

FRN	0003290673 (View Ownership Filing)
-----	---

Type	General Partnership
------	---------------------

Name	Cellco Partnership 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022 ATTN Licensing Manager
------	---

P:(770)797-1070 E:Licensingcompliance@verizonwireless.com
--

Real Party in
Interest

FRN of Real
Party in
Interest

Contact Information

Name	Verizon Wireless Licensing Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022 ATTN Regulatory	P:(770)797-1070 E:licensingcompliance@verizonwireless.com
------	---	--

Qualifications, Ownership

Radio Service Mobile
Type

Regulatory Status Common Carrier Interconnected Yes

Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

Demographics

Race

Ethnicity

Sex

Additional Certifications

Operation/Performance Requirement Certification

For a site-based license

Applicant certifies that it is continuing to operate consistent with its most recently filed construction notification (or most recent authorization, if no construction notification was required).

For a geographic license, commercial service - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to provide at least the level of service required by its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement and it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of the license term.

For a geographic license, commercial service - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to provide at least the level of service required by its final performance requirement through the end of any subsequent license terms. Yes

For a geographic license, private systems - licensee in its initial license term with an interim performance requirement

Applicant certifies that it has met its interim performance requirement, that over the portion of the license term following the interim performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its interim performance requirement, it has met its final performance requirement, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in its initial license term with no interim performance requirement

Applicant certifies that it has met its final performance requirement, it continues to use its facilities to further its private business or public interest/public safety communications needs, and it continues to use its facilities to provide at least the level of operation required by its final performance requirement through the end of the license term.

For a geographic license, private systems - licensee in any subsequent term

Applicant certifies that it continues to use its facilities to further its private business or public interest/public safety communications needs at or above the level required to meet its final performance requirement through the end of any subsequent license terms.

For a partitioned or disaggregated license without a performance requirement, for the first renewal application filed after 05/30/2020.

Applicant certifies that the partitioned and/or disaggregated license that is the subject of this renewal application has no separate performance requirement and that this is the first renewal of this license filed subsequent 10/01/2020.

For a partitioned or disaggregated license without a performance requirement, for any subsequent renewal filings

Applicant certifies that it continues to use its facilities to provide service or to further the applicant's private business or public interest/public safety needs.

Discontinuance of Service Certification

Applicant certifies that no permanent discontinuance of service or operation, as applicable, occurred during its current license term. Yes

Regulatory Compliance Certification

Applicant certifies that it has substantially complied with all applicable FCC rules, policies, and the Communications Act of 1934, as amended. Yes

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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

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

FCC Registration Number (FRN): 0003715919

Grant Date 09-23-2022	Effective Date 09-23-2022	Expiration Date 12-18-2036	Print Date 02-16-2023
Market Number BEA047	Channel Block C	Sub-Market Designator 14	
Market Name Lexington, KY-TN-VA-WV			
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. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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. 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: RURAL CELLULAR CORPORATION

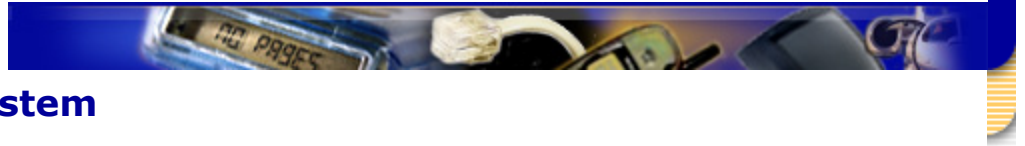
Call Sign: WRWF636

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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ULS Application

0010160917 - Rural Cellular Corporation

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File Number 0010160917

Application Status M - Consummated

General Information

Application Purpose AA - Assignment of Authorization

Receipt Date 08/23/2022

Entered Date 08/23/2022

Action Date 02/16/2023

Waiver No

Number of Rules

Attachments [Yes](#)

Application Fee Exempt No

Waiver/Deferral Fee No

Assignor Information

FRN 0003291192 Type Limited Liability Company
([View Ownership Filing](#))Name New Cingular Wireless PCS, LLC
ATTN Cecil J Mathew
208 S. Akard Street, RM 1016
Dallas, TX 75202
P:(855)699-7073
F:(214)746-6410
E:FCCMW@att.comRace
Ethnicity Sex

Assignor Contact Information

Name AT&T Mobility LLC
ATTN Michael P. Goggin
1120 20th Street NW, Suite 1000
Washington, DC 20036
P:(202)457-2055
E:michael.p.goggin@att.com

Assignee Information

FRN 0003715919 Type Corporation
([View Ownership](#))Name Rural Cellular Corporation
ATTN Regulatory
5055 North Point Pkwy, NP2NE
P:(770)797-1070
E:Licensing.Compliance@VerizonWireless.com

Network Engineering
Alpharetta, GA 30022

Real Party In Interest	Cellco Partnership	FRN of Real Party in Interest	0003290673
Race		Sex	
Ethnicity			

Assignee Contact Information

Name	Verizon Sarah Trosch 1300 I St NW - Suite 500 East Washington, DC 20005	P:(202)515-2453 E:sarah.trosch@verizon.com
------	--	---

Assignee Qualifications and Ownership Information

Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

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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 WRWF637	File Number 0010170298
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date 09-23-2022	Effective Date 09-23-2022	Expiration Date 12-18-2036	Print Date 02-16-2023
Market Number BEA047	Channel Block C	Sub-Market Designator 16	
Market Name Lexington, KY-TN-VA-WV			
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. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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. 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.

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Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRWF637

File Number: 0010170298

Print Date: 02-16-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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ULS Application

0010761275 - Trace-Tek

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File Number	0010761275	Application Status	G - Granted
Application Purpose	AM - Amendment	Classification of Lease	De Facto Transfer

General Information

Application Purpose	AM - Amendment	Original Application Purpose	LN - New Lease
Receipt Date	04/09/2024		See Full Filing History
Entered Date	04/09/2024	Action Date	04/11/2024
Waiver	No	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003290673 (View Ownership Filing)	Type	General Partnership
Name	Cellco Partnership ATTN Regulatory 5055 North Point Pkwy, NP2NE Engineering Alpharetta, GA 30022		P:(770)797-1070 E:Licensing.Compliance@verizonwireless.com
Race		Sex	
Ethnicity			

Licensee Contact Information

Name	Verizon Sarah Trosch 1300 I St, NW- Suite 500 East Washington, DC 20005		P:(202)515-2453 E:sarah.trosch@verizon.com
------	--	--	---

Lessee Information

FRN	0030856223 (View Ownership)	Type	Limited Liability Company
-----	--	------	---------------------------

Name	Trace-Tek ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341	P:(972)672-0477 E:licenses@trace-tek.com
------	---	---

Real Party In Interest	Trace-Tek	FRN of Real Party in Interest	0030856223
------------------------	-----------	-------------------------------	------------

Race	Sex
------	-----

Ethnicity

Lessee Contact Information

Name	Trace-Tek Garrett Loo ATTN licenses@trace-tek.com 2625 Commons Boulevard Beavercreek, OH 45341	P:(972)672-0477 E:licenses@trace-tek.com
------	--	---

Lessee Qualifications and Ownership Information

Radio Service
Type

Regulatory Status	Interconnected
-------------------	----------------

Alien Ownership

The Applicant answered "No" to each of the [Alien Ownership](#) questions.

Basic Qualifications

The Applicant answered "No" to each of the [Basic Qualification](#) questions.

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RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign WPOK659	File Number 0010160394
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003290673

Grant Date 09-12-2019	Effective Date 09-23-2022	Expiration Date 09-29-2029	Print Date 02-10-2023
Market Number BTA423	Channel Block C	Sub-Market Designator 1	
Market Name Somerset, KY			
1st Build-out Date 09-29-2004	2nd Build-out Date 09-29-2009	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: 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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ULS Application

PCS Broadband - 0010371950 - NEW CINGULAR WIRELESS PCS, LLC

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MAIN
ADMIN
TRANS LOG

File Number	0010371950	Radio Service	CW - PCS Broadband
Call Sign	WPOK659	Application Status	G - Granted

General Information

Application Purpose	AU - Administrative Update
Existing Radio Service	
Authorization Type	Regular
Receipt Date	01/13/2023
Entered Date	01/13/2023
Waiver	No
Attachments	
Application Fee Exempt	No
Major Request	

Emergency STA	
Action Date	01/14/2023
Requested Expiration Date	
Number of Rules	
Grandfathered Privileges	
Regulatory Fee Exempt	No

Market Data

Market	BTA423 - Somerset, KY	Channel Block	C
Submarket Designator	1	Associated Frequencies (MHz)	001895.00000000- 001910.00000000- 001975.00000000- 001990.00000000

Applicant Information

FRN	0003291192 (View Ownership Filing)	Type	Limited Liability Company
Name	NEW CINGULAR WIRELESS PCS, LLC 208 S. Akard St. 20F Dallas, TX 75202 ATTN FCC Group		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
Real Party in Interest		FRN of Real Party in Interest	

Contact Information

Name	AT&T Services, Inc. Cecil J Mathew 208 S. Akard St. 20F		P:(855)699-7073 F:(214)746-6410 E:FCCMW@att.com
------	---	--	---

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EXHIBIT B

**SITE DEVELOPMENT PLAN:
500' VICINITY MAP
LEGAL DESCRIPTIONS
FLOOD PLAIN CERTIFICATION
SITE PLAN
VERTICAL TOWER PROFILE**

CROCKETS TRAIL

US-KY-5213

111 DEANY VANNOY RD,
LIBERTY, KY 42539
CASEY COUNTY

ZONING DRAWINGS

NEW 255' SELF SUPPORT TOWER w/10' LIGHTNING ROD

SITE NUMBER: US-KY-5213
SITE NAME: CROCKETS TRAIL

THE INFORMATION CONTAINED ON THIS LEASE EXHIBIT IS AGREED TO AND APPROVED BY LANDLORD ON DATE: _____

THIS DOCUMENT SHALL BE DEEMED AN AMENDMENT TO THE LEASE AGREEMENT BY AND BETWEEN THE PARTIES.

SIGNATURE _____

PRINT _____



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

TOWER OWNER SITE
CROCKETS TRAIL
SITE #: US-KY-5213

VERIZON WIRELESS SITE
CROCKETS TRAIL
PROJECT#: 16933260
MARKET ID: KY
MDC#: 5000908538

SITE ADDRESS
DEANY VANNOY RD 111,
LIBERTY, KY 42539
CASEY COUNTY
E911 ADDRESS:
TBD

TOWER OWNER
VERTICAL BRIDGE
750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367

PROPERTY OWNER
KINCAID & VANNOY
8312 TIMBER LANE
MASON, OH 45040
THOMAS KINCAID
TOMNGOLDIAK@AOL.COM
(513) 508-7122

POLICE
CASEY COUNTY SHERIFF DEPARTMENT
PHONE: 606-787-6821

FIRE
CLEMENTSVILLE VOLUNTEER FIRE DEPARTMENT
PHONE: 606-303-4790

GENERAL INFORMATION
LATITUDE - 37°16'07.59" N
LONGITUDE - 85°03'17.61" W
1983 (NAD83)
ELEVATION - 1072.02' AMSL
1988 (NAVD88)

TOWER OWNER LEASE AREA
100'-0" x 100'-0"
(10000 SF)

VERIZON WIRELESS LEASE AREA
(500 SF)

PROJECT TOTAL DISTURBED AREA
COMPOUND: (6750 SF) = (0.15 ACRE)
ACCESS DRIVE+UTILITY: (1105.68 SF) = (0.02 ACRE)
GROSS AREA: (7855.68 SF) = (0.17 ACRE)

PROJECT SUMMARY

DIRECTIONS FROM CASEY COUNTY COURTHOUSE:

LEAVE FROM COURTHOUSE SQ, 30 FT, TURN LEFT ONTO CAMPBELLSVILLE ST/KY-70X BUS, 2.3 MI, TURN RIGHT ONTO W KY 70/KY-70, 0.3 MI, FOLLOW W KY 70/KY-70

ARRIVE AT DEANY VANNOY RD 111. LIBERTY, KY 42539

PROJECT SUMMARY

SURVEYOR
FASTAN
1012 S 4TH STREET, SUITE 101
LOUISVILLE, KY 40203

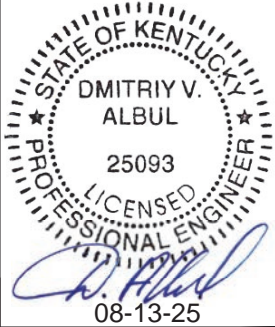
ARCHITECTURAL
PETER LICHOMSKI, AIA
49030 PONTIAC TRAIL, SUITE 100,
WIXOM, MI 48393
PH: (248) 705-9212

THIS IS A LEASE EXHIBIT.
DO NOT PROCEED
WITH CONSTRUCTION.

CONSULTANT TEAM

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
LS-1 TO LS-3	SITE SURVEY
Z-1 TO Z-1.2	OVERALL SITE PLAN WITH AERIAL OVERLAY
Z-2 TO Z-2.2	OVERALL SITE PLAN WITHOUT AERIAL OVERLAY
Z-3	TOWER LOCATION PLAN
Z-4	SITE PLAN
Z-5	DIMENSION SITE PLAN
Z-6	TOWER ELEVATION
Z-7	SITE DETAILS
Z-8	FENCE DETAILS

REV	DATE	DESCRIPTION
A	04/07/25	ISSUED FOR REVIEW
B	07/03/25	ISSUED FOR REVIEW
C	08/07/25	ISSUED FOR REVIEW
D	08/11/25	ISSUED FOR REVIEW



SITE INFORMATION:

CROCKETS TRAIL

111 DEANY VANNOY RD
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5213

SITE NAME:
CROCKETS TRAIL

PID NUMBER: 16933260

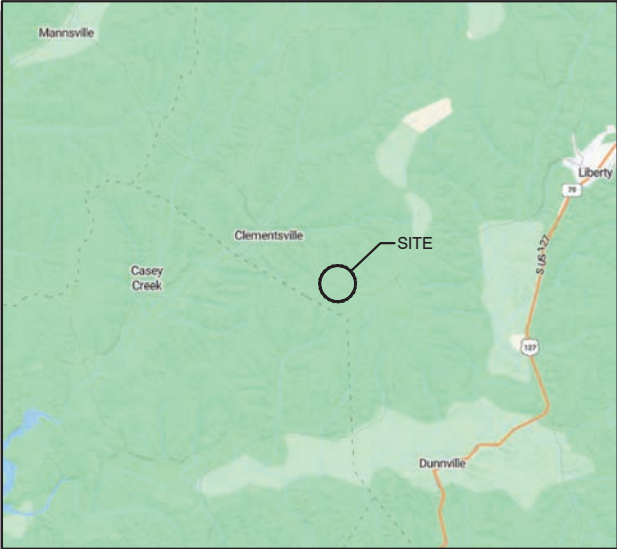
DRAWN BY: RC
CHECKED BY: PL
DATE: 02.14.25

SHEET TITLE:

PROJECT
INFORMATION, SITE
MAPS, SHEET INDEX

SHEET NUMBER:

T-1



VICINITY MAP

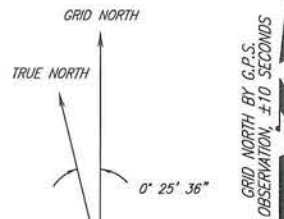


LOCATION MAP



AERIAL

- △ S1 1 - PREMISES
△ S1 2 - TITLE NOTES
△ S1 3 - FLOOD ZONE DATA
△ S1 4 - VICINITY MAP



NORTH IS BASED ON THE SINGLE STATE PLANE COORDINATE SYSTEM, AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON MARCH 02, 2023.

● COORDINATE POINT LOCATION

NAD 1983
LATITUDE: 37° 16' 07.59" N
LONGITUDE: 85° 03' 17.61" W
NAVD 1988
ELEVATION: 1072.02'
SINGLE STATE PLANE COORDINATE
(BLUE MARBLE GEOGRAPHIC
CALCULATOR VERSION 3.0)
NORTHING: 3622199.3381
EASTING: 5123517.5855

● PROJECT BENCHMARK

NORTH: 3622066.143
EAST: 5123465.702
ELEVATION: 1071.57
LOCATION: BEING A 3/4" REBAR W/CAP
STAMPED "CONTROL PNT." 98"
SOUTHWEST OF THE SOUTHWEST
CORNER OF THE LEASE AREA.

SYMBOL LEGEND

- WOOD POWER POLE
● CONCRETE POWER POLE
⊗ METAL TRAFFIC POLE
☆ LIGHT POLE
○ GUY POLE
⊗ TELEPHONE PEDESTAL
⊗ GUY ANCHOR
⊗ MANHOLE
⊗ WATER VALVE
⊗ WATER METER
⊗ FIRE HYDRANT
⊗ ELECTRIC BOX
● F.P. FENCE POST
XXX.XX SPOT ELEVATION

ABBREVIATIONS

- EG EDGE OF GRAVEL
EP EDGE OF PAVEMENT
ROW RIGHT OF WAY
C CENTERLINE
RCP REINFORCED CONCRETE PIPE
CONC CONCRETE
CPP CORRUGATED PLASTIC PIPE
CMP CORRUGATED METAL PIPE
S SUBJECT PROPERTY LINE
TC TOP OF CURB
BC BOTTOM OF CURB
POC POINT OF COMMENCING
POB POINT OF BEGINNING
IPC IRON PIN CAPPED

LINE LEGEND

- E — OVERHEAD ELECTRIC
— G — UNDERGROUND GAS LINE
— W — UNDERGROUND WATER LINE
— E/T — OVERHEAD ELECTRIC & TELEPHONE LINE
— T — OVERHEAD TELEPHONE LINE
— D — DRAINAGE/STORM SEWER LINE
— X — EXISTING FENCE
— XX — PROPOSED FENCE
— & — DITCH / SWALE
— — SUBJECT PROPERTY BOUNDARY

NOTE: SYMBOLS, ABBREVIATIONS, OR LINES/STYLES DO NOT NECESSARILY APPEAR ON DRAWING(S). USE ONLY AS APPLICABLE

RONNIE D & JANET
ATWOOD
D.B. 92, PG. 195
PAR. #025-15

DONALD & JOY TARTER
D.B. 289, PG. 635
PAR. #025-22

GOLDIA J. KINCAID AND WILEY
D. VANNOY, CO-TRUSTEES OF
THE KINCAID AND VANNOY
REAL ESTATE TRUST DATED
FEBRUARY 25, 2023
D.B. D345, PG. 635
PAR. #025-21

JOSEPH & VERDA BEACHY
D.B. 296, PG. 835
PAR. #025-23A-1

DALE & JACKIE VANNOY
D.B. 215, PG. 518
PAR. #025-21A



0' 150' 300' 600'
SCALE: 1" = 300' (IN FEET)



The utility information shown on this plot, prepared by FSTAN, was obtained from existing records and/or by field locations. It is the contractor's responsibility to verify their existence and location, and to contact the appropriate utility company for field locations.



QUAD MAP SCALE: 1" = 2000'



LOCATION DESCRIPTION

LOCATED ON THE PROPERTY CONVEYED TO GOLDIA J. KINCAID AND WILEY D. VANNOY, CO-TRUSTEES OF THE KINCAID AND VANNOY REAL ESTATE TRUST DATED FEBRUARY 25, 2023 IN DEED BOOK D345, PAGE 635, AND BE LOCATED ON THE NORTH SIDE OF KENTUCKY STATE HIGHWAY 90 IN CASEY COUNTY, KENTUCKY.

THIS SITE IS LOCATED ON THE CLEMENTSVILLE KENTUCKY USGS QUADRANGLE SHEET.

The horizontal datum (coordinates) is referenced to the North American Datum 1983 (NAD 83) and is expressed in terms of Latitude and Longitude in degrees, minutes, seconds, and decimal parts thereof, and is accurate to within 15 feet horizontally. The site vertical datum (elevations and benchmark) is in terms of the North American Vertical Datum of 1988 (NAVD 88) and is accurate to within +/- 3 feet vertically.

SURVEYORS NOTES

SOURCE OF BEARING AND ELEVATION IS A G.P.S. OBSERVATION ON MARCH 02, 2023, FROM A GPS CONTINUOUSLY OPERATING REFERENCE STATION DESIGNATION - CAMPBELLSVILLE U CORRS APP, CORRS_ID - KYOP, PID - DH7217.

SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN HEREON OR NOT.

SOURCE OF ROTATION BASED ON THE SOUTH LINE OF THE DALE & JACKIE VANNOY PROPERTY WHICH HAS THE BEARING OF N 71°14'18" W PER DEED BOOK 215, PAGE 518 AND THE CALCULATED BEARING OF N 68°39'25" W.

AT THE TIME OF THE SURVEY, THERE WERE NO VISIBLE ENCROACHMENTS AFFECTING THE LEASE AREA OR ANY OF THE EASEMENTS.

THE LEASE AREA AND ALL EASEMENTS ARE ENTIRELY WITHIN THE PARENT PARCEL.

THE ACCESS & UTILITY EASEMENT IS CONTIGUOUS WITH THE SOUTH LINE OF THE LEASE AREA AND CONTIGUOUS WITH THE NORTH RIGHT-OF-WAY LINE OF KENTUCKY HIGHWAY 90 (PUBLIC ROAD).

NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT TRACT.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

EXISTING CONTOURS ARE AT ONE FOOT INTERVALS.



SURVEYOR'S REVIEW OF "SPECIAL EXCEPTIONS"

NOTES CORRESPONDING TO THE TOWER TITLE, LLC, "ALTA COMMITMENT FOR TITLE INSURANCE", COMMITMENT NUMBER: VTB-169565-C AND LOAN ID NUMBER: US-KY-5213, EFFECTIVE DATE: MARCH 4, 2024.

(THERE ARE NO SURVEY ISSUES THAT AFFECT THE PARENT TRACT, THE LEASE AREA OR THE ACCESS & UTILITY EASEMENT.)

LAND SURVEYOR'S CERTIFICATE

I hereby certify to: Vertical Bridge REIT, LLC, a Delaware limited liability company, its subsidiaries, and their respective successors and/or assigns; and (ii) Toronto Dominion (Texas) LLC, as Administrative Agent, for itself and on behalf of the lenders parties from time to time to that certain Second Amended and Restated Loan Agreement dated June 17, 2016 with Vertical Bridge Holdco, LLC, as borrower, and Vertical Bridge Holdco Parent, LLC, as parent, as may be amended, restated, modified or renewed, their successors and assigns as their interests may appear; and Tower Title, LLC that this plot and survey were made under my supervision, and that the angular and linear measurements, supervision, and that the angular and linear measurements, to the best of my knowledge and belief. This survey and plat meets or exceeds the minimum standards of the governing authorities. This property is subject to any recorded easements or right of ways not shown hereon.

Frank L. Sellinger, II. KY. Reg. No. 3282

"WIRELESS COMMUNICATION SITE SURVEY"

OWNER APPROVAL: _____ DATE: _____

TENANT APPROVAL: _____ DATE: _____



I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 21045C02250 DATED 07-07-2008 AND THE LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE LEASE AREA IS LOCATED IN ZONE "X".

PREPARED FOR:

The Towers, LLC



1012 S 4th Street, Suite 101
Louisville, Ky 40203
Phone: (502) 636-5111
Fax: (502) 636-5263

SITE NUMBER:

US-KY-5213

SITE NAME:

CK CROCKETS TRAIL

SITE ADDRESS:

111 DEANY VANNOY ROAD
LIBERTY, KY 42539

LEASE AREA:

10,000.00 SQ.FT.

PROPERTY OWNER:

GOLDIA J. KINCAID AND WILEY
D. VANNOY, CO-TRUSTEES
OF THE KINCAID AND VANNOY
REAL ESTATE TRUST DATED
FEBRUARY 25, 2023
8312 TIMBER LANE
MASON, OH 45040

PARCEL NUMBER:

025-21

SOURCE OF TITLE:

D.B. D345, PG. 635

DWG BY: SNS FIELD DATE: 03.02.23 DRAFT DATE: 03.23.23

CHKD BY: FLS

FSTAN PROJECT NO.:

22-11667

SHEET 1 OF 3

REVISIONS:

VB UPDATE - 01.19.25 (2512237)

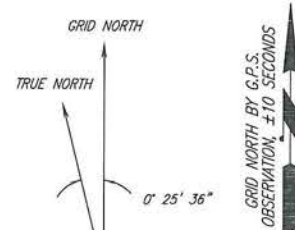
SITE ADDRESS - 03.07.25

RAWLAND

SHEET 2

S2
1 - PREMISES

S2
2 - FLOOD ZONE DATA



NORTH IS BASED ON THE SINGLE STATE PLANE COORDINATE SYSTEM, AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON MARCH 02, 2023.

COORDINATE POINT LOCATION

NAD 1983
LATITUDE: 37° 16' 07.59" N
LONGITUDE: 85° 03' 17.61" W
NAVD 1988
ELEVATION: 1072.02'
SINGLE STATE PLANE COORDINATE
(BLUE MARBLE GEOGRAPHIC
CALCULATOR VERSION 3.0)
NORTHING: 3622199.3381
EASTING: 5123517.5855

PROJECT BENCHMARK

NORTH: 3622066.143
EAST: 5123465.702
ELEVATION: 1071.57
LOCATION: BEING A 3/4" REBAR W/CAP
STAMPED "CONTROL PNT." 98'
SOUTHWEST OF THE SOUTHWEST
CORNER OF THE LEASE AREA.

SYMBOL LEGEND

- WOOD POWER POLE
- CONCRETE POWER POLE
- METAL TRAFFIC POLE
- LIGHT POLE
- GUY POLE
- TELEPHONE PEDESTAL
- GUY ANCHOR
- MANHOLE
- WATER VALVE
- WATER METER
- FIRE HYDRANT
- ELECTRIC BOX
- F.P. FENCE POST
- SPOT ELEVATION
- SET #5 REBAR (UNLESS OTHERWISE NOTED)
- EXISTING #5 REBAR (UNLESS OTHERWISE NOTED)

ABBREVIATIONS

EG	EDGE OF GRAVEL
EP	EDGE OF PAVEMENT
ROW	RIGHT OF WAY
CL	CENTERLINE
RCP	REINFORCED CONCRETE PIPE
CONC	CONCRETE
CPP	CORRUGATED PLASTIC PIPE
CMP	CORRUGATED METAL PIPE
PL	SUBJECT PROPERTY LINE
TC	TOP OF CURB
BC	BOTTOM OF CURB
POC	POINT OF COMMENCING
POB	POINT OF BEGINNING
IPC	IRON PIN CAPPED

LINE LEGEND

- OVERHEAD ELECTRIC
 - UNDERGROUND GAS LINE
 - UNDERGROUND WATER LINE
 - OVERHEAD ELECTRIC & TELEPHONE LINE
 - OVERHEAD TELEPHONE LINE
 - DRAINAGE/STORM SEWER LINE
 - EXISTING FENCE
 - PROPOSED FENCE
 - DITCH / SWALE
 - SUBJECT PROPERTY BOUNDARY
 - RIGHT OF WAY CENTERLINE
- NOTE: SYMBOLS, ABBREVIATIONS, OR LINES/STYLES DO NOT NECESSARILY APPEAR ON DRAWING(S). USE ONLY AS APPLICABLE.

SURVEYORS NOTES

SOURCE OF BEARING AND ELEVATION IS A G.P.S. OBSERVATION ON MARCH 02, 2023, FROM A GPS CONTINUOUSLY OPERATING REFERENCE STATION DESIGNATION - CAMPBELLVILLE U CORP. AR, CORP. ID - KYCP, PID - 017217.

SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN HEREON OR NOT.

SOURCE OF ROTATION BASED ON THE SOUTH LINE OF THE DALE & JACKIE VANNOY PROPERTY WHICH HAS THE BEARING OF N 71°14'18" W PER DEED BOOK 215, PAGE 518 AND THE CALCULATED BEARING OF N 68°39'25" W.

AT THE TIME OF THE SURVEY, THERE WERE NO VISIBLE ENCROACHMENTS AFFECTING THE LEASE AREA OR ANY OF THE EASEMENTS.

THE LEASE AREA AND ALL EASEMENTS ARE ENTIRELY WITHIN THE PARENT PARCEL.

THE ACCESS & UTILITY EASEMENT IS CONTIGUOUS WITH THE SOUTH LINE OF THE LEASE AREA AND CONTIGUOUS WITH THE NORTH RIGHT-OF-WAY LINE OF OF KENTUCKY HIGHWAY 90 (PUBLIC ROAD).

NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT TRACT.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

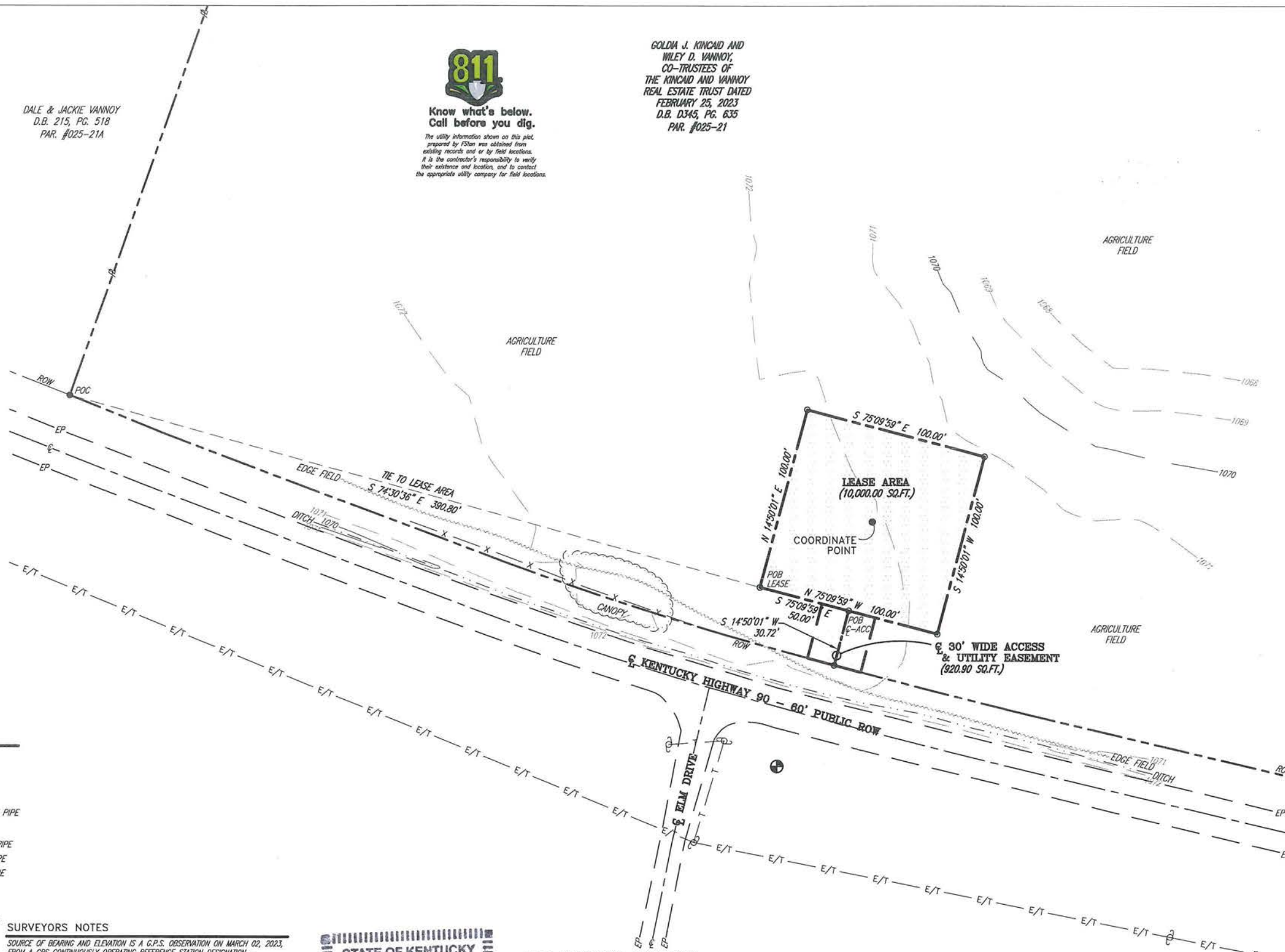
EXISTING CONTOURS ARE AT ONE FOOT INTERVALS.



Know what's below.
Call before you dig.

The utility information shown on this plot, prepared by FSTAN was obtained from existing records and/or by field locations. It is the contractor's responsibility to verify their existence and location, and to contact the appropriate utility company for field locations.

GOLDIA J. KINCAID AND
WILEY D. VANNOY,
CO-TRUSTEES OF
THE KINCAID AND VANNOY
REAL ESTATE TRUST DATED
FEBRUARY 25, 2023
D.B. D345, PG. 635
PAR. #025-21



LAND SURVEYOR'S CERTIFICATE

I hereby certify to: Vertical Bridge REIT, LLC, a Delaware limited liability company, its subsidiaries, and their respective successors and/or assigns; and (ii) Toranto Dominion (Texas) LLC, as Administrative Agent, for itself and on behalf of the lenders parties from time to time to that certain Second Amended and Restated Loan Agreement dated June 17, 2016 with Vertical Bridge Holdco, LLC, as borrower, and Vertical Bridge Holdco Parent, LLC, as parent, as may be amended, restated, modified or renewed, their successors and assigns as their interests may appear; and Tower Title, LLC that this plot and survey were made under my supervision, and that the angular and linear measurements, supervision, and that the angular and linear measurements, to the best of my knowledge and belief. This survey and plat meets or exceeds the minimum standards of the governing authorities. This property is subject to any recorded easements or right of ways not shown hereon.

Frank L. Sellinger, II. KY. Reg. No. 3282

0' 30' 60' 120'

SCALE: 1" = 60' (IN FEET)

"WIRELESS COMMUNICATION SITE SURVEY"

OWNER APPROVAL: _____ DATE: _____
TENANT APPROVAL: _____ DATE: _____



I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 21045C0225D DATED 07-07-2009 AND THE LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE LEASE AREA IS LOCATED IN ZONE "X".

PREPARED FOR:
The Towers, LLC



1012 S 4th Street, Suite 101
Louisville, Ky 40203
Phone: (502) 636-5111
Fax: (502) 636-5263

SITE NUMBER:
US-KY-5213

SITE NAME:
CK CROCKETS TRAIL

SITE ADDRESS:
111 DEANY VANNOY ROAD
LIBERTY, KY 42539

LEASE AREA:
10,000.00 SQ.FT.

PROPERTY OWNER:
GOLDIA J. KINCAID AND WILEY
D. VANNOY, CO-TRUSTEES
OF THE KINCAID AND VANNOY
REAL ESTATE TRUST DATED
FEBRUARY 25, 2023
8312 TIMBER LANE
MASON, OH 45040

PARCEL NUMBER:
025-21

SOURCE OF TITLE:
D.B. D345, PG. 635

DWG BY: SNS FIELD DATE: DRAFT DATE:
CHKD BY: FLS 03.02.23 03.23.23

FSTAN PROJECT NO.:
22-11667

SHEET 2 OF 3

REVISIONS:

VB UPDATE - 01.19.25 (2512237)
SITE ADDRESS - 03.07.25

RAWLAND

SHEET 3

S3

1

- LEGAL DESCRIPTIONS
(LEASE AREA)

S3

2

- LEGAL DESCRIPTIONS
(ACCESS ESMT)

S3

3

- LEGAL DESCRIPTIONS
(PARENT TRACT)

LEGAL DESCRIPTIONS:

This is a description for The Towers, LLC, of a lease area to be located on the property conveyed to Goldia J. Kincaid and Wiley D. Vannoy, Co-Trustees of The Kincaid and Vannoy Real Estate Trust dated February 25, 2023 in Deed Book D345, Page 635, and being located on the north side of Kentucky State Highway 90 in Casey County, Kentucky which is further described as follows:



LEASE AREA

Being located on the property conveyed to Goldia J. Kincaid and Wiley D. Vannoy, Co-Trustees of The Kincaid and Vannoy Real Estate Trust dated February 25, 2023 in Deed Book D345, Page 635, and being located on the north side of Kentucky State Highway 90 in Casey County, Kentucky which is further described as follows:

Commencing at a 5/8" rebar with cap stamped "1953" at the southwest corner of said Kincaid & Vannoy property and being on the north right-of-way of Kentucky State Highway;

Thence traversing said Kincaid & Vannoy property S 74°30'36" E - 390.80' to a set iron rod with a cap stamped "FStan 3282", and being the True Point of Beginning of the Lease Area;

Thence N 14°50'01" E - 100.00' to a set iron rod with a cap stamped "FStan 3282";

Thence S 75°09'59" E - 100.00' to a set iron rod with a cap stamped "FStan 3282";

Thence S 14°50'01" W - 100.00' to a set iron rod with a cap stamped "FStan 3282";

Thence N 75°09'59" W - 100.00' to the point of beginning, containing 10,000.0 square feet as per survey by Frank L. Sellinger, II dated March 23, 2023.



30' WIDE ACCESS & UTILITY EASEMENT

Being located on the property conveyed to Goldia J. Kincaid and Wiley D. Vannoy, Co-Trustees of The Kincaid and Vannoy Real Estate Trust dated February 25, 2023 in Deed Book D345, Page 635, and being located on the north side of Kentucky State Highway 90 in Casey County, Kentucky which is further described as follows:

Commencing at a 5/8" rebar with cap stamped "1953" at the southwest corner of said Kincaid & Vannoy property and being on the north right-of-way of Kentucky State Highway 90;

Thence traversing said Kincaid & Vannoy property S 74°30'36" E - 390.80' to a set iron rod with a cap stamped "FStan 3282", and being the southeast corner of the Lease Area;

Thence with the south line of said Lease Area S 75°09'59" E - 50.00' to set iron rod with a cap stamped "FStan 3282", and being the True Point of Beginning of the Centerline of the 30' wide Access & Utility Easement;

Thence leaving the said Lease Area with said centerline S 14°50'01" W - 30.72' to a set iron rod with a cap stamped "FStan 3282" on the north right-of-way line of said Kentucky State Highway 90 being subject to said right-of-way, and being the point of termination, containing 920.90 square feet as per survey by Frank L. Sellinger, II dated March 23, 2023.



PARENT TRACT DESCRIPTION (PROVIDED BY OTHERS)

All that tract or parcel of land located in the County of Casey, State of Kentucky, on the waters of Woods Creek being more particularly described as follows:

Beginning on a black gum on the South side of the public road; thence a North course 105 poles to a stone corner of Lot No. 1, in Mays division; thence W 56 poles to a Hickory and Dogwood, near a poplar and ash corner to 100 acre survey made in the name of Edward Goode thence N 7 1/4 W 44 poles to a thence S 39 W 58 poles to a Whiteoak in line of 900 acre survey; thence S 58 poles to a Blackoak on North side of public road; thence with county road, S 5 N _ poles to an agreed corner to the beginning, containing 45 acres, more or less.

Exception: There is excepted from the above described real property and not conveyed herein, the following described real property:

Beginning at a rebar and cap set in the West boundary of the source of title at a fence corner, the Northwest corner of an exclusion now owned by Howard Helm Deed Book 114, Page 512; thence along the fence with Ronnie Atwood Deed Book 92, Page 195 North 00 degrees 00 minutes 00 seconds East 475.77 feet to a rebar and cap set in a fence row 280.00 feet South of a fence corner; thence severing the source of title South 70 degrees 52 minutes 11 seconds East 685.84 feet to a point a new corner (a rebar and cap will be set when the corn is harvested); South 16 degrees 45 minutes 01 seconds West 514.88 feet to a rebar and cap set on the North right of way of Kentucky Route No. 70 also a new corner; thence along the same 30 ft. North of the center line North 71 degrees 14 minutes 18 seconds West 186.87 ft. to a rebar and cap set common to Helm again; thence leaving the highway with Helm North 14 degrees 56 minutes 15 seconds East 76.17 ft. to a rebar and cap set in a fence row; thence along the same North 72 degrees 26 minutes 15 seconds West 359.00 ft. to the point of beginning, containing 6.611 acres, as surveyed and platted September. 2002. by Richard A. Montgomery, KY PLS No. 1953.

Parcel ID: 025-21

This being the same property conveyed to Goldia J. Kincaid and Wiley D. Vannoy, Co-Trustees of The Kincaid and Vannoy Real Estate Trust dated February 25, 2023 from Goldia J. Kincaid and Wiley D. Vannoy in a general warranty deed dated February 25, 2023 and recorded April 17, 2023 in book D345 page 635 as instrument 167494 in Casey County, Kentucky.



LAND SURVEYOR'S CERTIFICATE

I hereby certify to: Vertical Bridge REIT, LLC, a Delaware limited liability company, its subsidiaries, and their respective successors and/or assigns; and (ii) Toronto Dominion (Texas) LLC, as Administrative Agent, for itself and on behalf of the lenders parties from time to time to that certain Second Amended and Restated Loan Agreement dated June 17, 2016 with Vertical Bridge Holdco, LLC, as borrower, and Vertical Bridge Holdco Parent, LLC, as parent, as may be amended, restated, modified or renewed, their successors and assigns as their interests may appear; and Tower Title, LLC that this plat and survey were made under my supervision, and that the angular and linear measurements, supervision, and that the angular and linear measurements, to the best of my knowledge and belief. This survey and plat meets or exceeds the minimum standards of the governing authorities. This property is subject to any recorded easements or right of ways not shown hereon.

Frank L. Sellinger, II
KY. Reg. No. 3282

3-10-25

PREPARED FOR:
The Towers, LLC

1012 S 4th Street, Suite 101
Louisville, Ky 40203
Phone: (502) 636-5111
Fax: (502) 636-5263

SITE NUMBER:
US-KY-5213

SITE NAME:
CK CROCKETS TRAIL

SITE ADDRESS:
111 DEANY VANNOY ROAD
LIBERTY, KY 42539

LEASE AREA:
10,000.00 SQ.FT.

PROPERTY OWNER:
GOLDIA J. KINCAID AND WILEY
D. VANNOY, CO-TRUSTEES
OF THE KINCAID AND VANNOY
REAL ESTATE TRUST DATED
FEBRUARY 25, 2023
8312 TIMBER LANE
MASON, OH 45040

PARCEL NUMBER:
025-21

SOURCE OF TITLE:
D.B. D345, PG. 635

DWG BY: SNS
CHKD BY: FLS

FIELD DATE:
03.02.23

DRAFT DATE:
03.23.23

FSTAN PROJECT NO.:
22-11667

SHEET 3 OF 3

REVISIONS:
VB UPDATE - 01.19.25 (2512237)
SITE ADDRESS - 03.07.25

RAWLAND

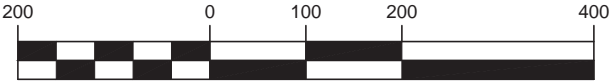


PROPERTY	PROPERTY OWNER	ADDRESS	TAX PARCEL
A	HAGLER JOHN	1707 OAK GROVE RD, PINE MOUNTAIN, GA 31822	025-21A
B	RONNIE D & JANET ATWOOD	9250 W KY 70 LIBERTY, KY 42539-8779	025-15
C	DONALD & JOY TARTER	501 LUTTRELLS CREEK RD., DUNNVILLE, KY 42528	025-22
D	JOSEPH & VERDA BEACHY	8136 W. KY 70, LIBERTY KY 42539	025-23A-1
E	THE KINCAID & VANNOY REAL EST TRUST	8136 WATERMARK CT WEST CHESTER, OH 45069	025-21

PARCEL NUMBERS, OWNERSHIP INFORMATION,
AND MAILING ADDRESS'S SHOWN ON THIS
DRAWING ARE BASED ON THE RECORDS OF
CASEY COUNTY, KY PVA DATED 4/6/25.



Know what's below.
Call before you dig.
Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
UNDERGROUND LOCATION SERVICE TWO (2)
WORKING DAYS BEFORE COMMENCING WORK.



OVERALL SITE PLAN WITH AERIAL OVERLAY

SCALE: 1" = 200'

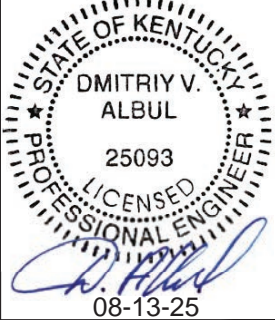


750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
A	04/07/25	ISSUED FOR REVIEW
B	07/03/25	ISSUED FOR REVIEW
C	08/07/25	ISSUED FOR REVIEW
D	08/11/25	ISSUED FOR REVIEW



SITE INFORMATION:
CROCKETS TRAIL
111 DEANY VANNOY RD
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5213

SITE NAME:
CROCKETS TRAIL

PID NUMBER: 16933260

DRAWN BY: RC
CHECKED BY: PL
DATE: 02.14.25

SHEET TITLE:
OVERALL SITE PLAN
WITH AERIAL OVERLAY

SHEET NUMBER:
Z-1

PROPERTY	PROPERTY OWNER	ADDRESS	TAX PARCEL
D	JOSEPH & VERDA BEACHY	8136 W. KY 70, LIBERTY KY 42539	025-23A-1
E	THE KINCAID & VANNOY REAL EST TRUST	8136 WATERMARK CT WEST CHESTER, OH 45069	025-21
F	WETHINGTON JEFFERY & RHONDA	8840 W KY 70 LIBERTY, KY 42539	025-22B
H	RICKY LEE YANKEY	9181 W KY 70 LIBERTY, KY 42539-8778	025-17
I	STEVE BURCHELL	8843 W KY 70 LIBERTY, KY 42539-8775	025-23B
J	SMITH KENNETH & VICTORIA	5950 LIBERTY RD CAMPBELLSVILLE, KY 42718	025-20C
K	DANNY CLEMENTS/ BARBARA CLEMENTS	457 ELM DR LIBERTY, KY 42539-9015	025-19B-1
L	CASEY COUNTY VETERANS HONOR GUARD	9 ELM DR LIBERTY, KY 42539	025-19B-1A

PARCEL NUMBERS, OWNERSHIP INFORMATION, AND MAILING ADDRESS'S SHOWN ON THIS DRAWING ARE BASED ON THE RECORDS OF CASEY COUNTY, KY PVA DATED 4/6/25.



750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367

49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
A	04/07/25	ISSUED FOR REVIEW
B	07/03/25	ISSUED FOR REVIEW
C	08/07/25	ISSUED FOR REVIEW
D	08/11/25	ISSUED FOR REVIEW

STATE OF KENTUCKY
DMITRIY V. ALBUL
25093
LICENSED PROFESSIONAL ENGINEER
08-13-25

SITE INFORMATION:

CROCKETS TRAIL

111 DEANY VANNOY RD
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5213

SITE NAME:
CROCKETS TRAIL

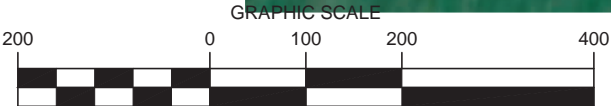
PID NUMBER: 16933260

DRAWN BY: RC
CHECKED BY: PL
DATE: 02.14.25

SHEET TITLE:
OVERALL SITE PLAN WITH AERIAL OVERLAY

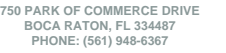
SHEET NUMBER:
Z-1.2

Kentucky 811
Know what's below.
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Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

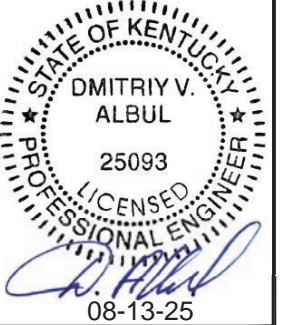


OVERALL SITE PLAN WITH AERIAL OVERLAY
SCALE: 1" = 200'





REV.	DATE	DESCRIPTION
A	04/07/25	ISSUED FOR REVIEW
B	07/03/25	ISSUED FOR REVIEW
C	08/07/25	ISSUED FOR REVIEW
D	08/11/25	ISSUED FOR REVIEW



111 DEANY VANNOY RD
LIBERTY, KY 42539
CASEY COUNTY

SITE NAME:
CROCKETS TRAIL

DRAWN BY: RC
CHECKED BY: PL
DATE: 02.14.25

OVERALL SITE
PLAN WITHOUT
AERIAL OVERLAY

$$Z-2$$

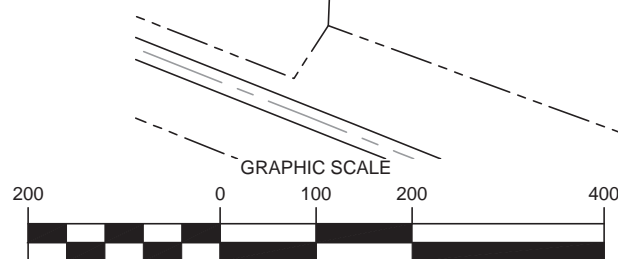
PROPERTY	PROPERTY OWNER	ADDRESS	TAX PARCEL
A	HAGLER JOHN	1707 OAK GROVE RD, PINE MOUNTAIN, GA 31822	025-21A
B	RONNIE D & JANET ATWOOD	9250 W KY 70 LIBERTY, KY 42539-8779	025-15
C	DONALD & JOY TARTER	501 LUTTRELLS CREEK RD., DUNNVILLE, KY 42528	025-22
D	JOSEPH & VERDA BEACHY	8136 W. KY 70, LIBERTY KY 42539	025-23A-1
E	THE KINCAID & VANNOY REAL EST TRUST	8136 WATERMARK CT WEST CHESTER, OH 45069	025-21

PARCEL NUMBERS, OWNERSHIP INFORMATION,
AND MAILING ADDRESS'S SHOWN ON THIS
DRAWING ARE BASED ON THE RECORDS OF
CASEY COUNTY, KY PVA DATED 4/6/25.



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PER KENTUCKY STATE LAW, IT IS AGAINST THE
LAW TO EXCAVATE WITHOUT NOTIFYING THE
UNDERGROUND LOCATION SERVICE TWO (2)
WORKING DAYS BEFORE COMMENCING WORK.



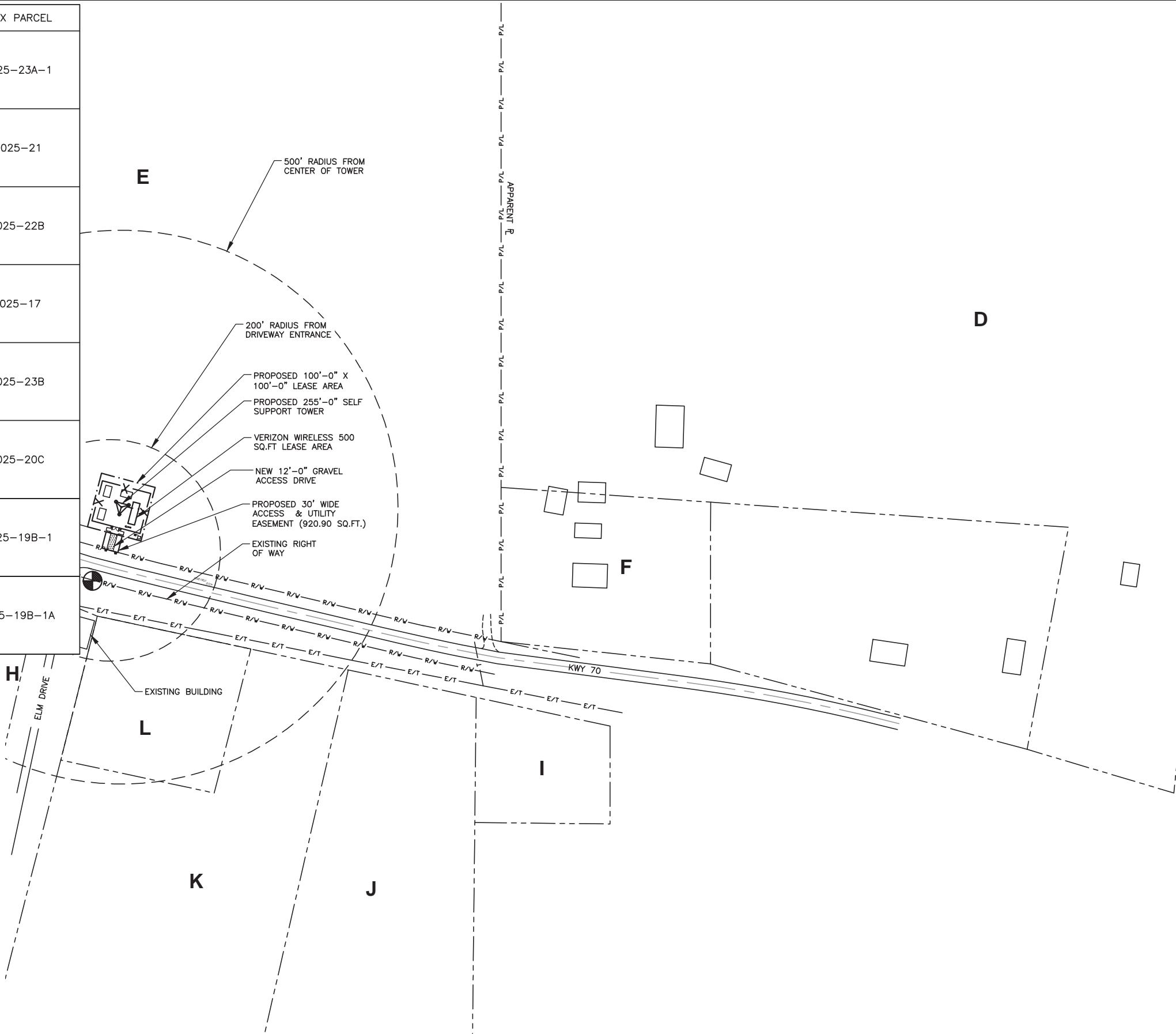
OVERALL SITE PLAN WITHOUT AERIAL OVERLAY

SCALE: 1" = 200'



PROPERTY	PROPERTY OWNER	ADDRESS	TAX PARCEL
D	JOSEPH & VERDA BEACHY	8136 W. KY 70, LIBERTY KY 42539	025-23A-1
E	THE KINCAID & VANNOY REAL EST TRUST	8136 WATERMARK CT WEST CHESTER, OH 45069	025-21
F	WETHINGTON JEFFERY & RHONDA	8840 W KY 70 LIBERTY, KY 42539	025-22B
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J	SMITH KENNETH & VICTORIA	5950 LIBERTY RD CAMPBELLSVILLE, KY 42718	025-20C
K	DANNY CLEMENTS/ BARBARA CLEMENTS	457 ELM DR LIBERTY, KY 42539-9015	025-19B-1
L	CASEY COUNTY VETERANS HONOR GUARD	9 ELM DR LIBERTY, KY 42539	025-19B-1A

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OVERALL SITE PLAN WITHOUT AERIAL OVERLAY

SCALE: 1" = 200'

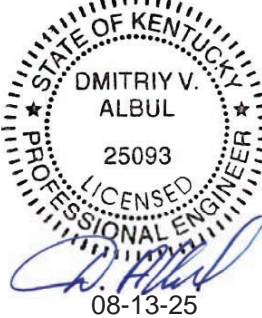


750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

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C	08/07/25	ISSUED FOR REVIEW
D	08/11/25	ISSUED FOR REVIEW



SITE INFORMATION:
CROCKETS TRAIL

111 DEANY VANNOY RD
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:
US-KY-5213

SITE NAME:
CROCKETS TRAIL

PID NUMBER: 16933260

DRAWN BY: RC
CHECKED BY: PL
DATE: 02.14.25

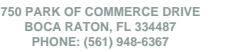
SHEET TITLE:
OVERALL SITE PLAN WITHOUT AERIAL OVERLAY

SHEET NUMBER:
Z-2.2



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PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



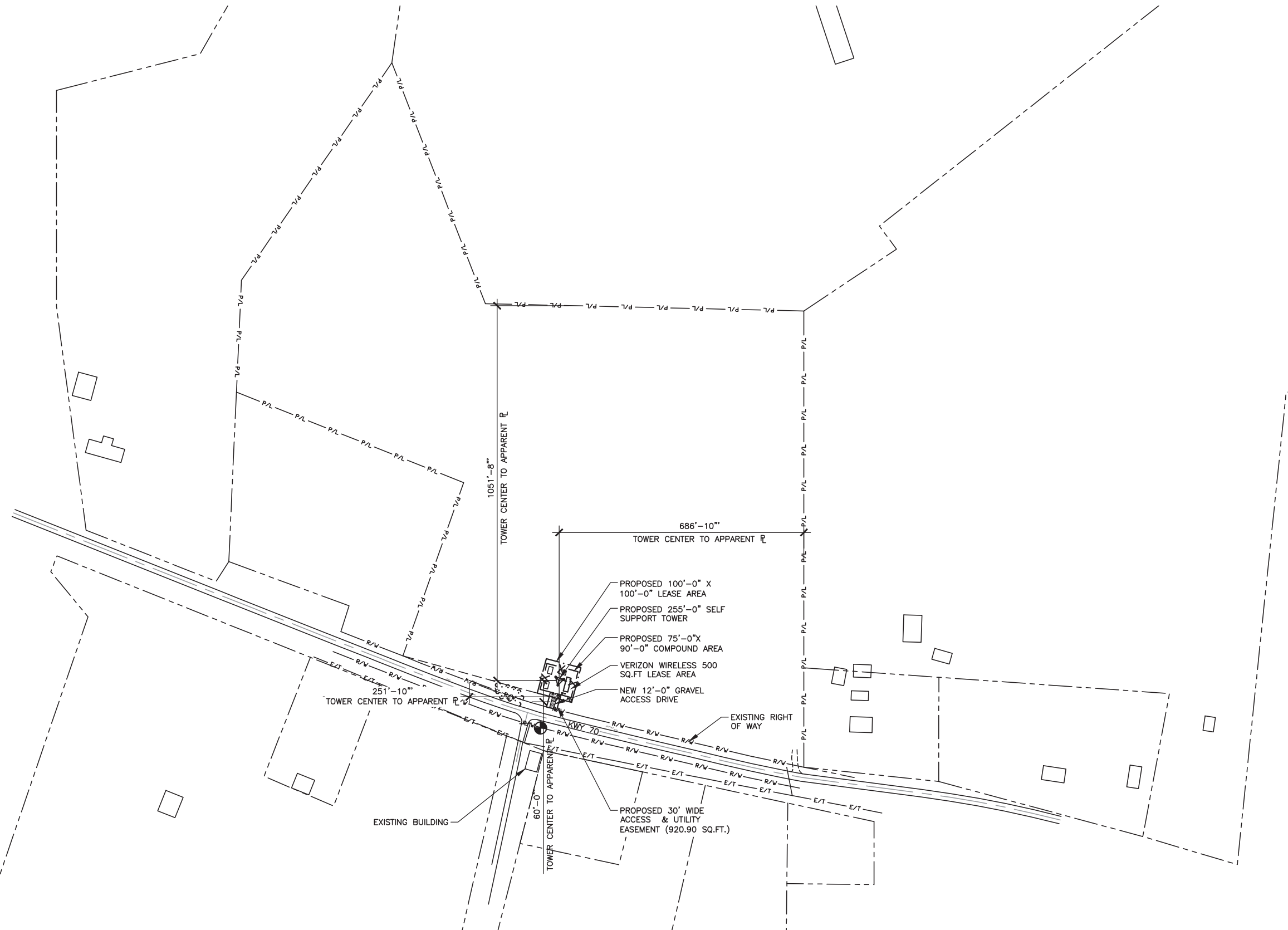
REV.	DATE	DESCRIPTION
A	04/07/25	ISSUED FOR REVIEW
B	07/03/25	ISSUED FOR REVIEW
C	08/07/25	ISSUED FOR REVIEW
D	08/11/25	ISSUED FOR REVIEW



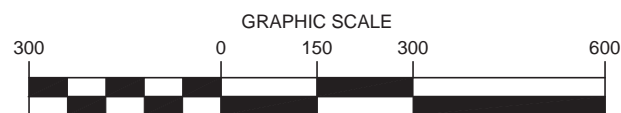
SHEET TITLE:

**TOWER LOCATION
PLAN**

SHEET NUMBER:
Z-3



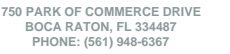
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



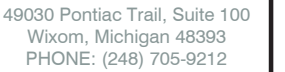
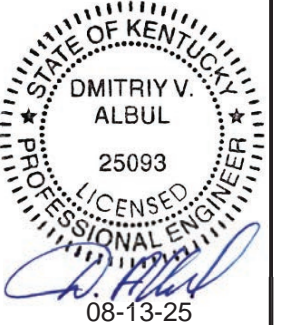
TOWER LOCATION PLAN

SCALE: 1" = 300'





750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367

[illegible]

111 DEANY VANNOY RD
LIBERTY, KY 42539
CASEY COUNTY

SITE NAME:
CROCKETS TRAIL

PID NUMBER: 16933260

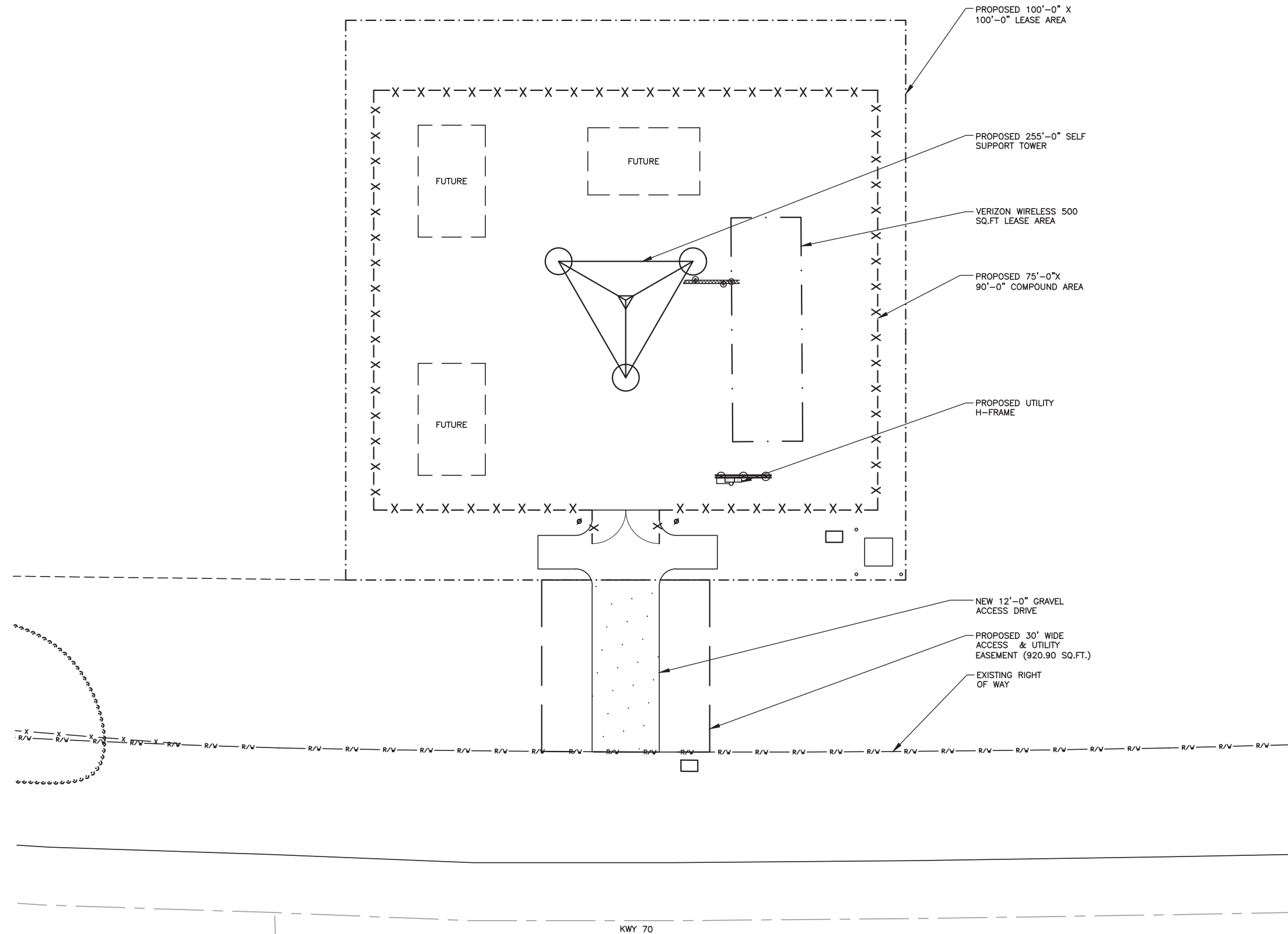
DRAWN BY: RC
CHECKED BY: PL
DATE: 02.14.25

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

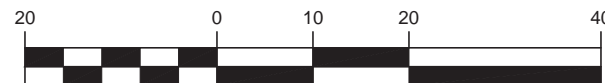
Z-4



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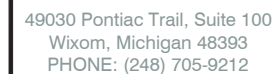
GRAPHIC SCALE



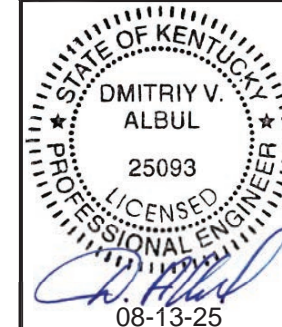
SITE PLAN

SCALE: 1" = 20'





REV.	DATE	DESCRIPTION
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111 DEANY VANNOY RD
LIBERTY, KY 42539
CASEY COUNTY

SITE NAME:
CROCKETS TRAIL

PID NUMBER: 16933260

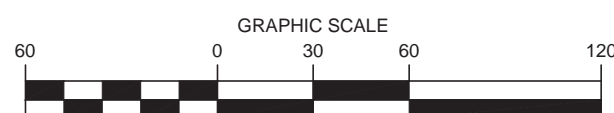
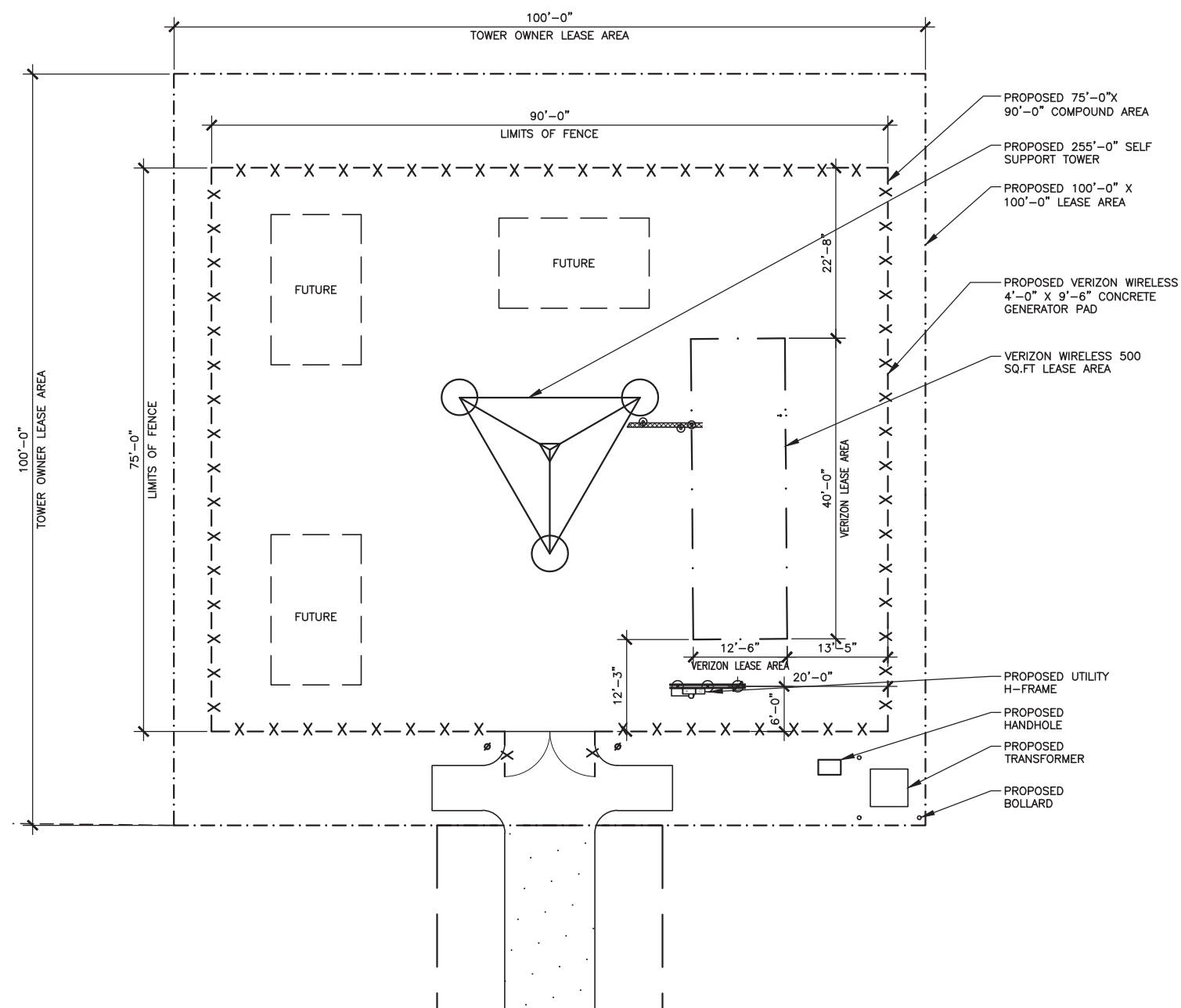
DRAWN BY:	RC
CHECKED BY:	PL
DATE:	02.14.25

SHEET TITLE:

DIMENSION SITE PLAN

SHEET NUMBER:

Z-5



DIMENSION SITE PLAN

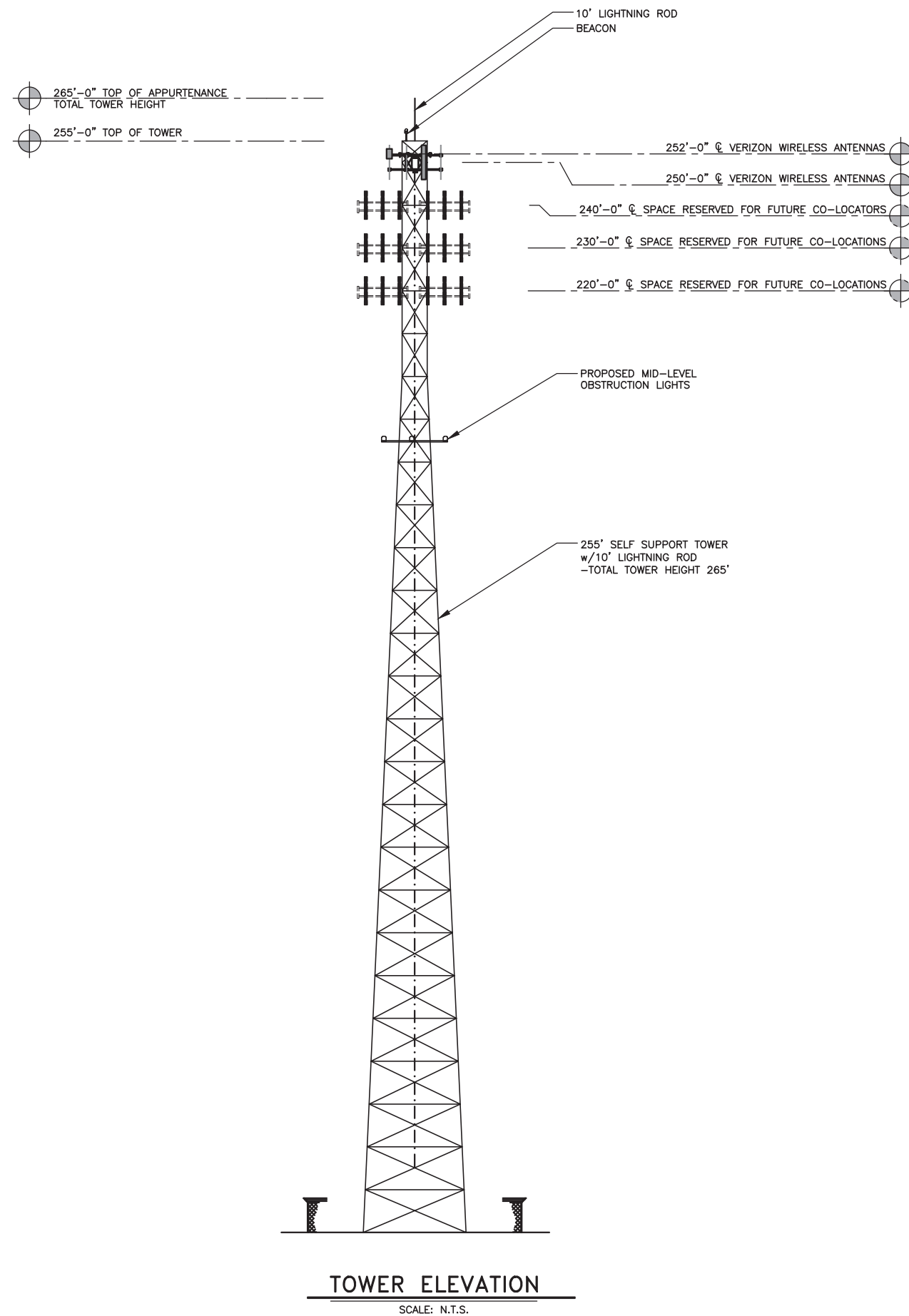
SCALE: 1" = 20'-0"



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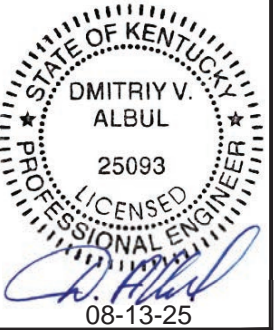


750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367



49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393
PHONE: (248) 705-9212

REV.	DATE	DESCRIPTION
A	04/07/25	ISSUED FOR REVIEW
B	07/03/25	ISSUED FOR REVIEW
C	08/07/25	ISSUED FOR REVIEW
D	08/11/25	ISSUED FOR REVIEW



SITE INFORMATION:

CROCKETS TRAIL |

111 DEANY VANNOY RD
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:

US-KY-5213

SITE NAME:

CROCKETS TRAIL

PID NUMBER:	16933260
-------------	----------

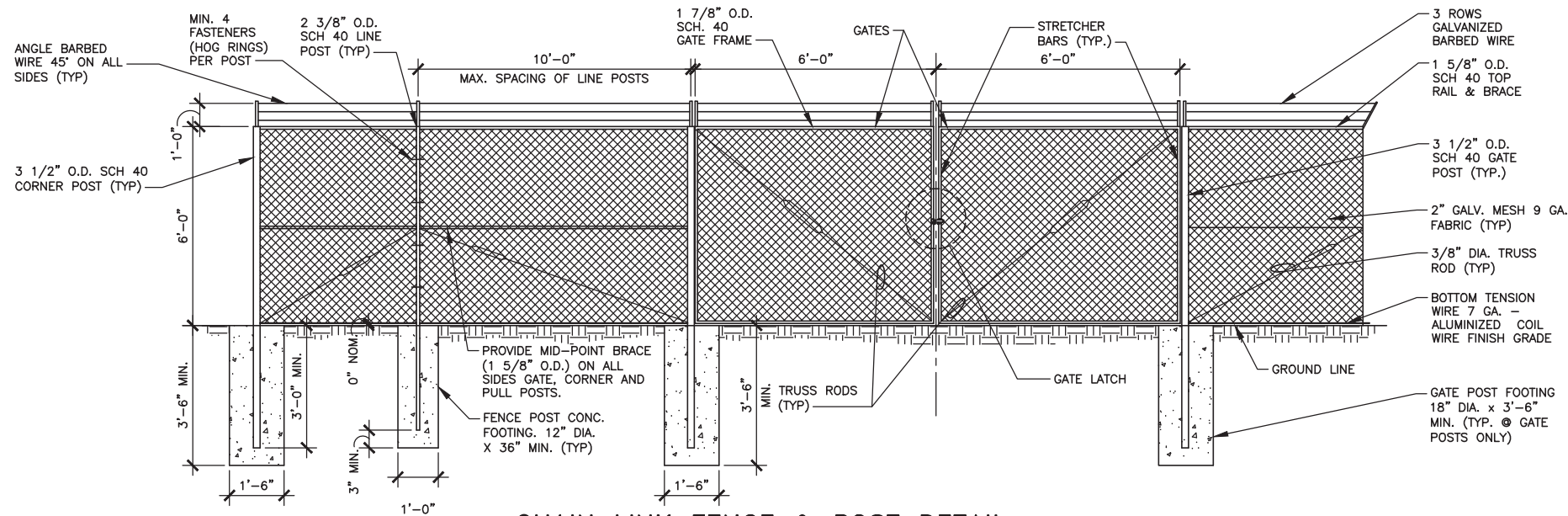
DRAWN BY:	RC
CHECKED BY:	PL
DATE:	02.14.25

SHEET TITLE:

TOWER ELEVATION

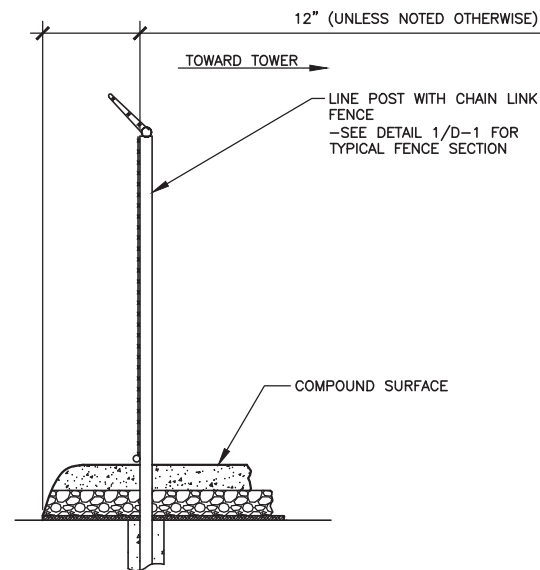
SHEET NUMBER:

Z-6



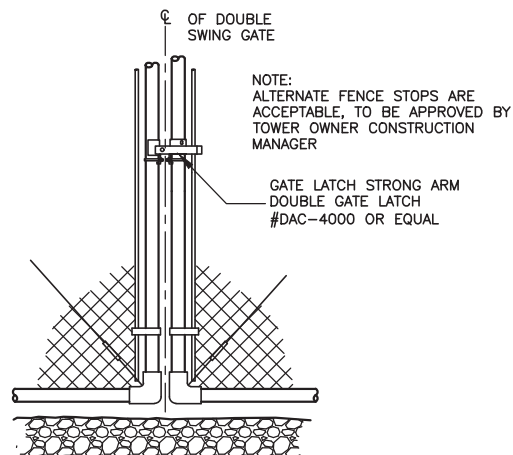
CHAIN LINK FENCE & POST DETAIL

SCALE: N.T.S.



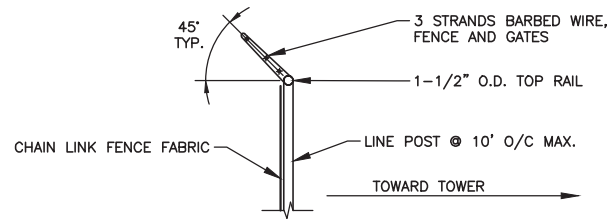
SITE AREA SURFACING

SCALE: N.T.S.



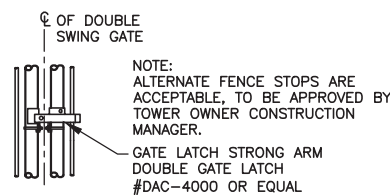
GATE LATCH DETAIL

SCALE: N.T.S.



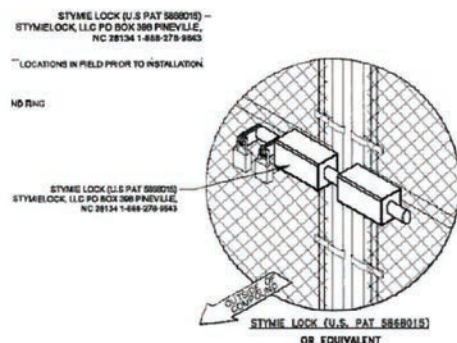
TYPICAL BARBED WIRE DETAIL

SCALE: N.T.S.



GATE LATCH DETAIL

SCALE: N.T.S.

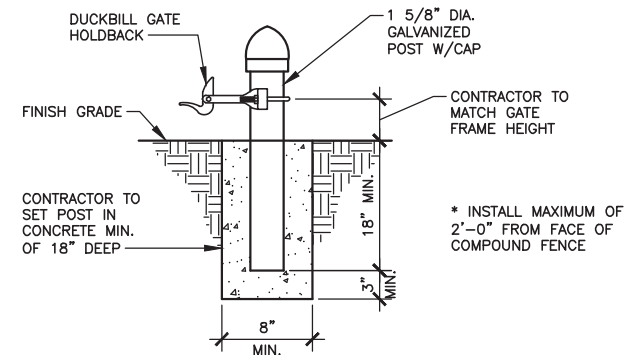


STYMIE GATE LOCK DETAIL

SCALE: N.T.S.

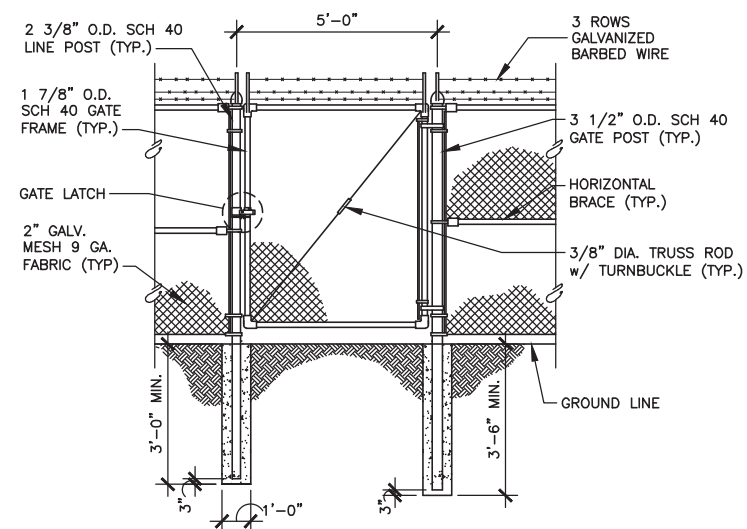
CHAIN LINK FENCING NOTES

1. ALL FENCE AND FABRIC SHALL BE HOT DIPPED GALVANIZED WITH A MINIMUM OF 2 OZ. PER SQUARE FOOT, 9 GAUGE WIRE (MIN. BREAKING STRENGTH OF 1,290 LBS) WITH 2" MESH. ALL BARBED WIRE SHALL BE ALUMINUM OR COATED PER NOTE #4.
2. BOTTOM EDGE OF FENCE FABRIC SHALL EXTEND TO FINISHED GRADE.
3. SITE FENCE SHALL BE 6'-0" FABRIC W/ 3 STRAND BARBED WIRE FOR TOTAL HEIGHT OF 7'-0".
4. BARBED WIRE SHALL MEET ASTM A 121, CLASS 3 GALV. OR ASTM A 585, TYPE I, CLASS 2 COATING (NOT LESS THAN 0.8 OZ. PER SQ. FT.) AND SHALL BE THREE STRAND 12.5 GAGE W/4 POINT BARBS AT 5" O/C.
5. BOTTOM OF CONCRETE BASE SHALL BE SET BELOW FROSTLINE (SEE LOCAL CODE). WHERE SOIL BEARING CAPACITY IS LESS THAN 2000 PSF, INCREASE CONCRETE SURROUNDING FENCE POST FOUNDATION DIAMETERS BY 8", PROVIDE CONCRETE WITH A 28 DAY STRENGTH OF 3000 PSI (MIN.)
6. PROVIDE A DIAGONAL BRACE ROD AND TURN BUCKLE ON BOTH GATE LEAFS.
7. ALL RAILS AND BRACES SHALL BE SCHEDULE 40 STEEL PIPE, AND ALL FENCE POSTS SHALL BE SCHEDULE 40 STEEL PIPE, AND BE 2 OZ. GALVANIZED COATED.
8. CONTRACTOR SHALL ENSURE ALL POSTS ARE PLUMB.
9. ALL FENCE SHALL BE FABRICATED AND INSTALLED PER ASTM F2611-15, ASTM F567-14a AND CHAIN LINK FENCE MANUFACTURES INSTITUTE CLFMI-PM 2445.
10. CONTRACTOR SHALL FURNISH AND INSTALL ONE (1) MASTER LOCK LONG SHANK #175LH COMBINATION PADLOCK. COMBINATION TO BE SET AT 7011.



GATE KEEPER DETAIL

SCALE: N.T.S.



MAN GATE DETAIL

SCALE: N.T.S.

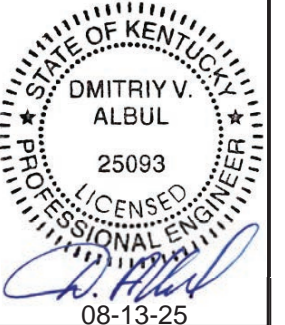


750 PARK OF COMMERCE DRIVE
BOCA RATON, FL 334487
PHONE: (561) 948-6367



49030 Pontiac Trail, Suite 100
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REV.	DATE	DESCRIPTION
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B	07/03/25	ISSUED FOR REVIEW
C	08/07/25	ISSUED FOR REVIEW
D	08/11/25	ISSUED FOR REVIEW



SITE INFORMATION:

CROCKETS TRAIL

111 DEANY VANNOY RD
LIBERTY, KY 42539
CASEY COUNTY

SITE NUMBER:

US-KY-5213

SITE NAME:

CROCKETS TRAIL

PID NUMBER: 16933260

DRAWN BY: RC

CHECKED BY: PL

DATE: 02.14.25

SHEET TITLE:

FENCE DETAILS

SHEET NUMBER:

Z-8

EXHIBIT C

**CONSTRUCTION MANAGER LETTER
LIST OF QUALIFIED PROFESSIONALS
TOWER AND FOUNDATION DESIGN**



The Towers, LLC
c/o Vertical Bridge REIT, LLC
750 Park of Commerce Drive, Suite 200
Boca Raton, FL 33487
561-948-6367
VerticalBridge.com

July 11, 2025

Kentucky Public Service Commission
P.O. Box 615, 211 Sower Boulevard
Frankfort, Kentucky 40602-0615

RE: Site Name – US-KY-5215 Crockets Trail
Proposed Cell Tower
111 Deany Vannoy Road, Liberty, KY 42539
37° 16' 07.59" N latitude, 85° 03 ' 17.61" W longitude

Dear Commissioners:

The Construction Manager for the proposed new communications facility will be Joshua Sizemore. His contact information is (770) 875-5351 or josh.sizemore@verticalbridge.com.

Josh has been in the industry completing civil construction and constructing towers since 2011. He has worked at Vertical Bridge since June of 2023 completing projects and acting as construction management on new site build projects.

Thank you,

Josh Sizemore

Josh Sizemore, Construction Manager – KY/TN/GA/AL Market
The Towers, LLC
(770) 875-5351

Croquets Trail – List of Qualified Professionals

Frank L. Sellinger
Professional Land Surveyor
Kentucky License 3282
FSTAN
1012 S 4th Street, Suite 101
Louisville, KY 40203

Dmitriy V. Albul
Professional Engineer
Kentucky License 25093
LAB Architects LLC
49030 Pontiac Trail, Suite 100
Wixom, Michigan 48393

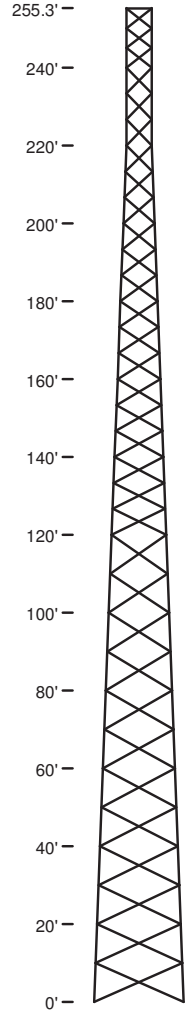
Josh Sizemore
The Towers, LLC
750 Park of Commerce Drive, Suite 200
Boca Raton, FL 33487

Jason Mark Lambert
Kentucky Licensed Professional Engineer No. 28217
Nello Corporation
1201 S. Sheridan St.
South Bend, IN 46619

Joseph V. Borrelli, Jr., P.E.
Kentucky Licensed Professional Engineer No. 30809
Delta Oaks Group
4904 Professional Court, 2nd Floor
Raleigh, NC 27609

Michael Thomas
Delta Oaks Group
4904 Professional Court, 2nd Floor
Raleigh, NC 27609

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



Self-Supporting Tower Section Data

Section Number	Bottom Elevation (ft)	Top Elevation (ft)	Model	Bottom Face Width (ft)	Top Face Width (ft)	Number of Panels	Leg Size (in)	Diagonal Size (in)	Girt Size (in)	Mid-Horizontal Size (in)	Redundant Horizontal Size (in)	Redundant Diagonal Size (in)
13	240	255.3	NSX	6.5	6.5	3	P2x.154	L2x2x1/8	L2x2x1/8			
12	220	240	NSX	6.5	6.5	3	P3x.216	L2x2x3/16				
11	200	220	NSX	8.0	6.5	3	P5x.258	L2x2x3/16				
10	180	200	NSX	9.5	8.0	3	P6x.28	L2x2x3/16				
9	160	180	NSX	11.0	9.5	3	P6x.28	L2 1/2x2 1/2x3/16				
8	140	160	NSX	12.5	11.0	3	P8x.322	L2 1/2x2 1/2x3/16				
7	120	140	NSX	14.0	12.5	3	P8x.322	L2 1/2x2 1/2x3/16				
6	100	120	NSX	15.5	14.0	2	P8x.322	L3x3x3/16				
5	80	100	NSX	17.0	15.5	2	P10x.365	L3x3x3/16				
4	60	80	NSX	18.5	17.0	2	P10x.365	L3 1/2x3 1/2x1/4				
3	40	60	NSX	20.0	18.5	2	P10x.365	L3 1/2x3 1/2x1/4				
2	20	40	NSX	21.5	20.0	2	P10x.365	L3 1/2x3 1/2x1/4				
1	0	20	NSX	23.0	21.5	2	P10x.365	L4x4x1/4				

Tower Reactions

No Ice
Shear: 57.2 kips
Moment: 9214.23 ft-kips
Weight: 68.6 kips

With Ice
Shear: 7.5 kips
Moment: 1264.92 ft-kips
Weight: 156.9 kips

Leg Reactions

Compression: 485.5 kips
Uplift: -424.6 kips
Shear: 36.6 kips



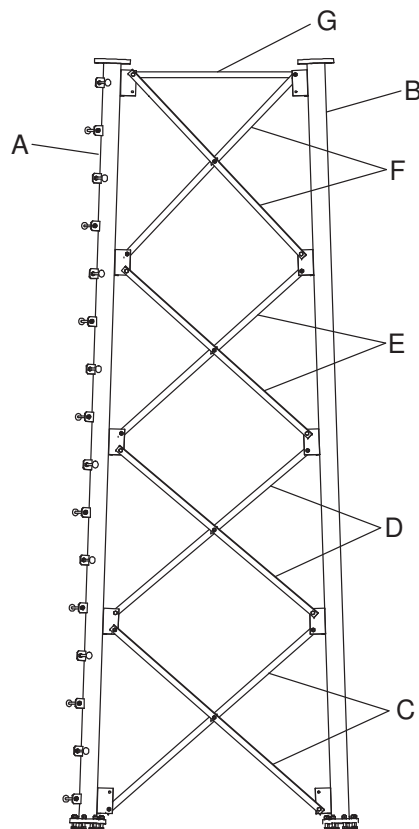
REV	BY	DATE	DESCRIPTION

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ORIG. DATE: 8/1/2025	DWG NO: 802836
DWG. PROG: v2.05	SHEET: 1 OF 6

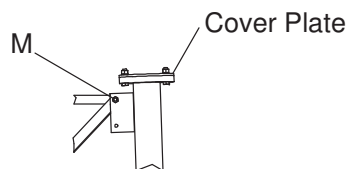
TITLE:
The Towers, LLC
NSX 23' X 255.3'
US-KY-5213 / Crockets Trail
Casey Co., KY

1201 S. Sheridan St.
South Bend, IN 46619
Bus: (574)288-3632
Fax: (574)288-5860



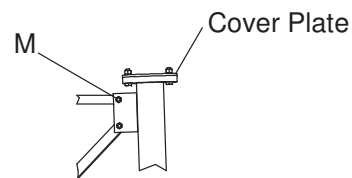
NSX Section Detail

1. A part number is stamped on the bottom footpad of each leg.
2. A part number is stamped and /or labeled on the bottom end of each angle.
3. Be sure to place diagonal bracing angles in correct positions, angles in the top panel may be longer than they are in the middle panel.
4. The bolt head must bear against the angle bracing.



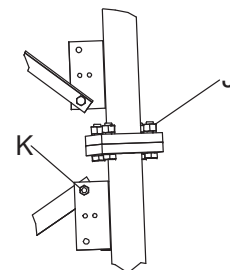
Detail A: NSX Top Connection

- *Applicable to all 20 ft Sections.
- *Applicable to all Sections Shorter than 20 ft and are Straight.



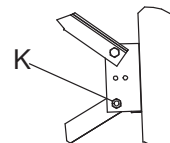
Detail B: NSX Top Connection

- *Applicable to all Sections Shorter than 20 ft that are Tapered Sections.



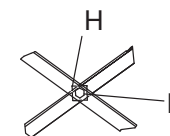
One plain nut and one lockwasher per bolt.

NSX Leg Connection



One plain nut and one lockwasher per bolt.

NSX Bracing Detail



One plain nut and one lockwasher per bolt.

NSX Spacer Detail

NSX Section Legend:

- A. Climbing Leg
- B. Non-Climbing Leg
- C. Diag., Panel 1
- D. Diag., Panel 2
- E. Diag., Panel 3
- F. Diag., Panel 4
- G. Top Girt
- H. Spacer
- J. Leg Bolts
- K. Diagonal Bolts
- L. Stitch Bolts
- M. Top Girt Bolts



TITLE:

The Towers, LLC
NSX 23' X 255.3'

US-KY-5213 / Crockets Trail
Casey Co., KY



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ORIG. DATE: 8/1/2025

DWG NO: 802836

DWG. PROG: v2.05

SHEET: 2 OF 6

REV	BY	DATE	DESCRIPTION

NSX Section Part Numbers

Item	Elevation	Climbing Leg (A)	Non-Climbing Leg (B)	Diagonal - Panel 1 (C)	Diagonal - Panel 2 (D)	Diagonal - Panel 3 (E)	Diagonal - Panel 4 (F)	Top Girt (G)	Spacer (H)
13	240' - 255.3'	141466		167372	167373	167372		167279	132233
12	220' - 240'	214086		214861	214862	214861			132233
11	200' - 220'	141264		167216	167217	167218			132233
10	180' - 200'	141267		166855	166856	166857			132233
9	160' - 180'	129729		167243	167244	167245			132233
8	140' - 160'	129695		168102	168103	168104			132233
7	120' - 140'	129695		167978	167979	167980			132233
6	100' - 120'	129703		167034	167035				132233
5	80' - 100'	129736		167036	167037				132233
4	60' - 80'	129736		166966	166967				132233
3	40' - 60'	129736		166964	166965				132233
2	20' - 40'	129736		167040	167041				132233
1	0' - 20'	757732		167067	167068				132233

NSX Section Hardware

Item	Elevation	Leg Bolts (J)	Diagonal Bolts (K)	Stitch Bolts (L)	Top Girt Bolts (M)	Section Weight (Lbs.)
13	240' - 255.3'	(12) 3/4" x 3-1/2"	(36) 1/2" x 1-1/2"	(9) 1/2" x 1-1/2"	(6) 1/2" x 1-1/2"	710
12	220' - 240'	(24) 3/4" x 3-1/2"	(36) 5/8" x 2-1/2"	(9) 5/8" x 2-1/2"		1220
11	200' - 220'	(24) 3/4" x 3-1/2"	(36) 5/8" x 2-1/2"	(9) 5/8" x 2-1/2"		1690
10	180' - 200'	(24) 3/4" x 3-1/2"	(36) 5/8" x 2-1/2"	(9) 5/8" x 2-1/2"		2020
9	160' - 180'	(24) 1" x 3-3/4"	(36) 5/8" x 2-1/2"	(9) 5/8" x 2-1/2"		2280
8	140' - 160'	(24) 1" x 3-3/4"	(36) 3/4" x 2-1/4"	(9) 3/4" x 2-1/4"		3030
7	120' - 140'	(24) 1" x 3-3/4"	(36) 3/4" x 2-1/4"	(9) 3/4" x 2-1/4"		3110
6	100' - 120'	(30) 1" x 3-3/4"	(24) 3/4" x 2-1/4"	(6) 3/4" x 2-1/4"		3140
5	80' - 100'	(30) 1" x 3-3/4"	(24) 3/4" x 2-1/4"	(6) 3/4" x 2-1/4"		3940
4	60' - 80'	(30) 1" x 3-3/4"	(24) 3/4" x 2-1/4"	(6) 3/4" x 2-1/4"		4510
3	40' - 60'	(30) 1" x 3-3/4"	(24) 3/4" x 2-1/4"	(6) 3/4" x 2-1/4"		4610
2	20' - 40'	(30) 1" x 3-3/4"	(24) 3/4" x 2-1/4"	(6) 3/4" x 2-1/4"		4710
1	0' - 20'	0	(24) 3/4" x 2-1/4"	(6) 3/4" x 2-1/4"		5180



TITLE:
The Towers, LLC
NSX 23' X 255.3'
US-KY-5213 / Crockets Trail
Casey Co., KY



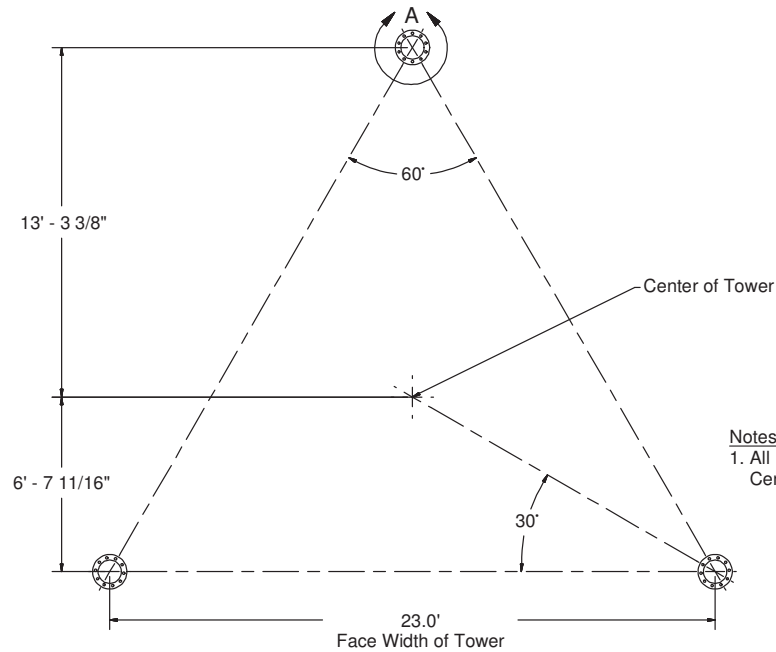
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ORIG. DATE: 8/1/2025 DWG NO: 802836
DWG. PROG: v2.05 SHEET: 3 OF 6

REV	BY	DATE	DESCRIPTION

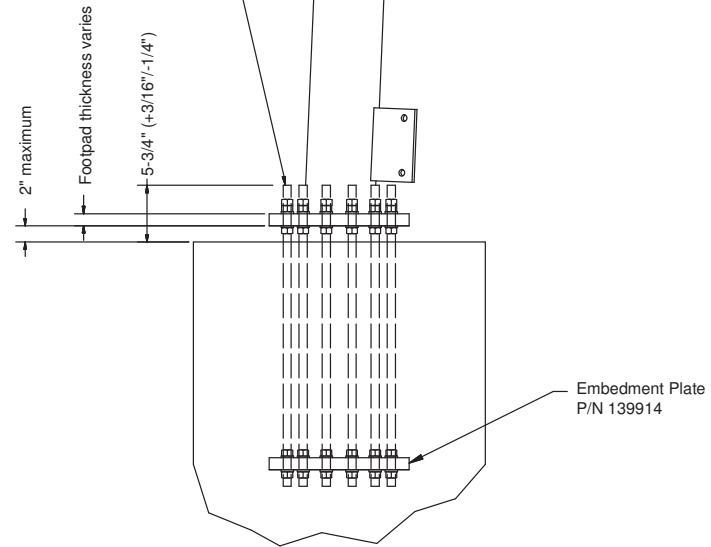


DETAIL A
Bolt hole must be aligned with center of tower.



Notes:
1. All Dimensions are from Center of Bolt Circles.

1" Diameter x 60" ASTM F1554 Grade 105 anchor bolts, P/N 102970 on a 14-1/4" bolt circle, 10 per leg, 30 total.



TITLE:
The Towers, LLC
NSX 23' X 255.3'
US-KY-5213 / Crockets Trail
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REV	BY	DATE	DESCRIPTION

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	DWG. PROG: v2.05	SHEET: 4 OF 6

Antenna Loading

Height	Qty.	Description
250'	1	42,000 sq in CaAa
239'	1	30,000 sq in CaAa
229'	1	30,000 sq in CaAa
215'	1	Dish Pipe Mount

Feedline Loading


Height	Qty.	Description
0' - 250'	18	LDF7-50A (1-5/8 FOAM)
0' - 239'	12	LDF7-50A (1-5/8 FOAM)
0' - 229'	12	LDF7-50A (1-5/8 FOAM)
0' - 215'	1	EW63
0' - 255'	1	1" Conduit

Dish Loading

Height	Qty.	Description
215'	1	6' Dish with Radome



TITLE:
The Towers, LLC
NSX 23' X 255.3'
US-KY-5213 / Crockets Trail
Casey Co., KY



1201 S. Sheridan St.
South Bend, IN 46619
Bus: (574)288-3632
Fax: (574)288-5860

REV	BY	DATE	DESCRIPTION

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	DWG. PROG: v2.05	SHEET: 5 OF 6

Tower Notes:

1. Tower is designed per TIA-222-H, "Structural Standard for Antenna Supporting Structures, Anennas and Small Wind Turbine Support Structures," for the following loading conditions:
105 mph 3-second gust ultimate wind speed with no ice per ASCE 7-16
30 mph 3-second gust basic wind speed with 1-1/2 inch basic ice thickness per ASCE 7-16
Risk Category: II
Exposure Category: C
Topographic Category: 1
Crest Height: 0 feet
2. A tower field inspection shall be performed in order to verify that design exposure and topographic parameters are consistent with the existing tower site conditions.
3. Tower design includes the antennas, dishes, and/or lines listed in the appurtenance loading tables on sheet 5.
4. Antenna mounting pipes may need to be field cut to match the lengths listed in the appurtenance loading tables on sheet 5.
5. Tower member design does not include stresses due to erection since erection equipment and procedures are unknown. Tower installation shall be performed by competent and qualified erectors in accordance with TIA-222-H and OSHA standards and all applicable building codes.
6. Field connections shall be bolted. No field welds shall be allowed unless otherwise noted.
7. Structural bolts shall conform to ASTM A325, except for 1/2 inch diameter and smaller bolts, which shall conform to ASTM A449 or SAE J429 Grade 5.
8. Structural steel and connection bolts shall be galvanized after fabrication in accordance with TIA-222-H.
9. All high strength bolts shall be tightened to a "snug tight" condition as defined in the RCSC "Specification for Structural Joints Using ASTM A325 or A490 Bolts."
10. Tower shall be marked and lighted in conformance with local building codes, FAA regulations, and TIA-222-H.
11. Tower shall be grounded in conformance with local building codes and TIA-222-H. Evaluation of protective grounding and consideration for special grounding systems shall be performed by others.
12. Allowable tolerance on as-built tower steel height is plus 1% or minus 1/2%.
13. Maintenance and inspection shall be performed over the life of the structure in accordance with TIA-222-H.
14. Material specifications:
Self Supporting Pipe Legs - ASTM A500 Grade 50
Angle Bracing - ASTM A529 Grade 50
Leg Footpads - ASTM A572 Grade 50
Leg Side Plates - ASTM A36 (Min)
15. Remove anchor bolt template before erecting tower.
16. Concrete contractor shall be responsible for properly aligning anchor bolts and materials before and after placing concrete, regardless of whether an anchor bolt template is provided.



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NSX 23' X 255.3'
US-KY-5213 / Crockets Trail
Casey Co., KY



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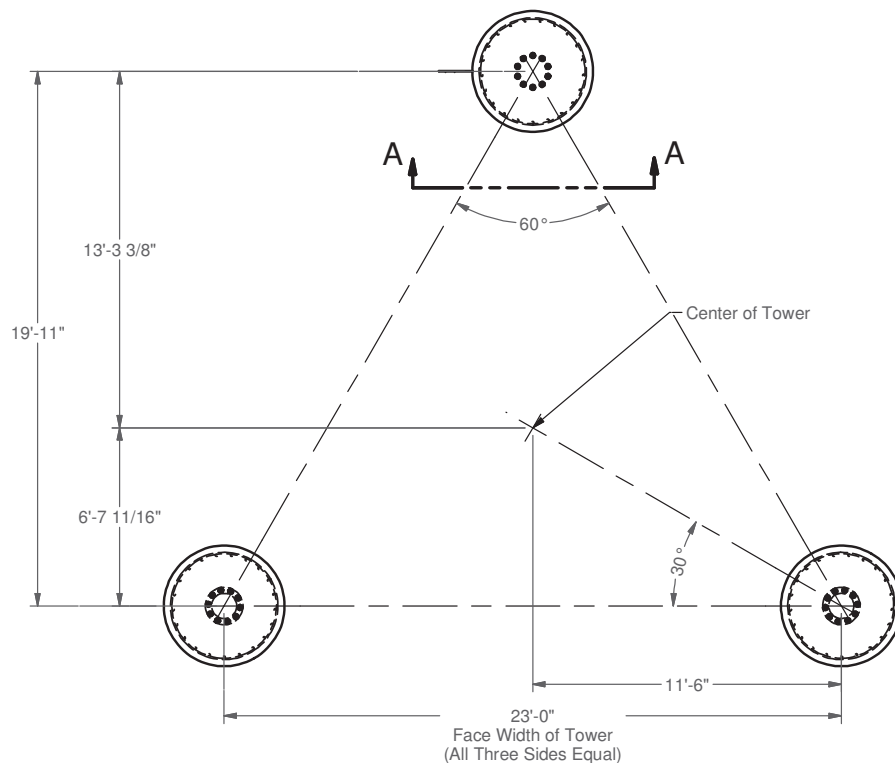
ORIG. DATE: 8/1/2025

DWG NO: 802836

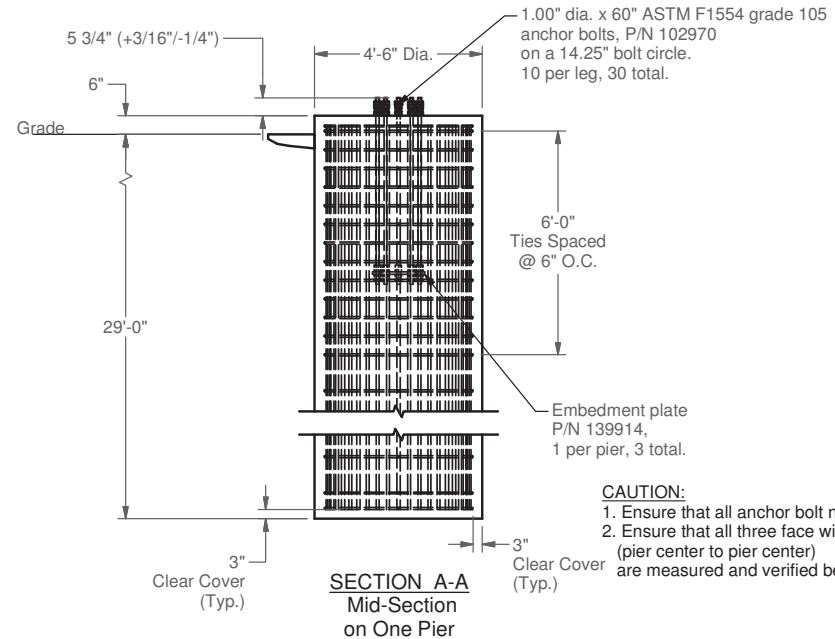
DWG. PROG: v2.05

SHEET: 6 OF 6

REV	BY	DATE	DESCRIPTION



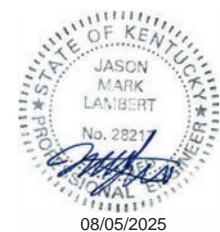
PLAN VIEW
DRILLED PIER FOUNDATION
ONE PIER PER LEG, THREE TOTAL
(CONCRETE VOLUME: 17.4 CU. YD. PER PIER, 52.1 CU. YD. TOTAL)



Concrete Compressive Strength, $f_c = 4500$ psi

#8 reinforcing bars,
 348.00" long,
 spaced at 6.8" O.C. around inside of ties.
 21 per pier, 63 total.

#5 reinforcing bars,
 168.00" long before being bent into circle with
 48.00" outer diameter and 19.00" overlap.
 Top 2 ties spaced at 1.625" O.C.
 Next 12 ties spaced at 6" O.C.
 Bottom 2 ties spaced at 5" O.C.
 Remainder of ties spaced at 11.69" O.C.
 38 per pier, 114 total.



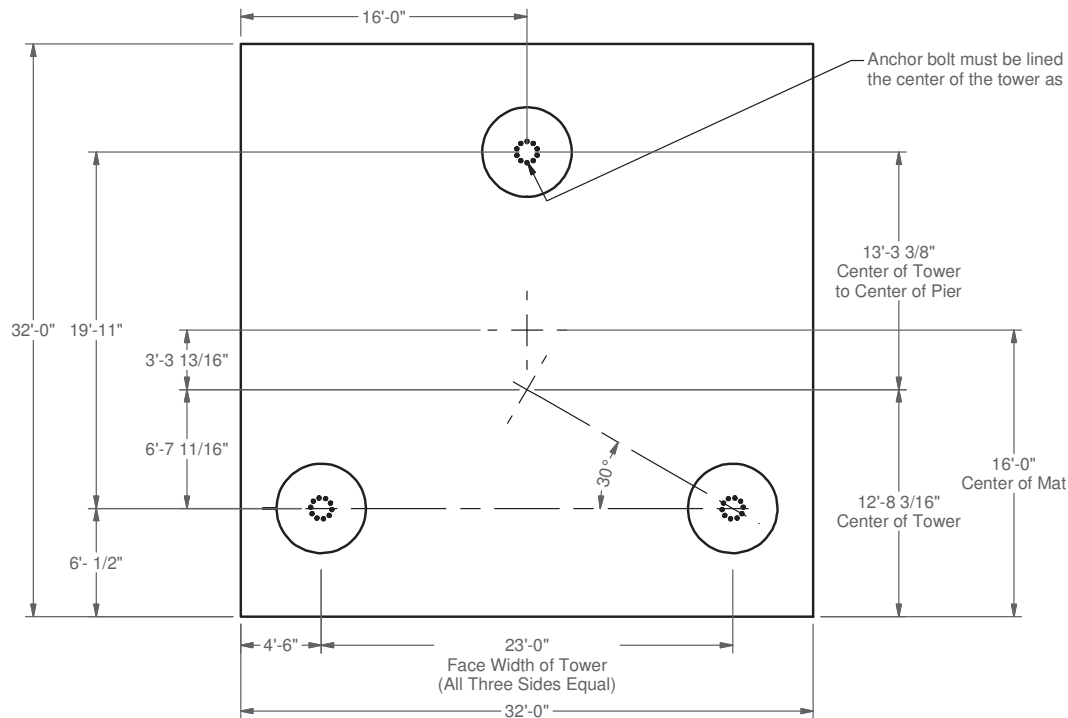
TITLE:
 The Towers, LLC
 NSX 23' X 255.3'
 US-KY-5213 / Crockets Trail
 Casey Co., KY



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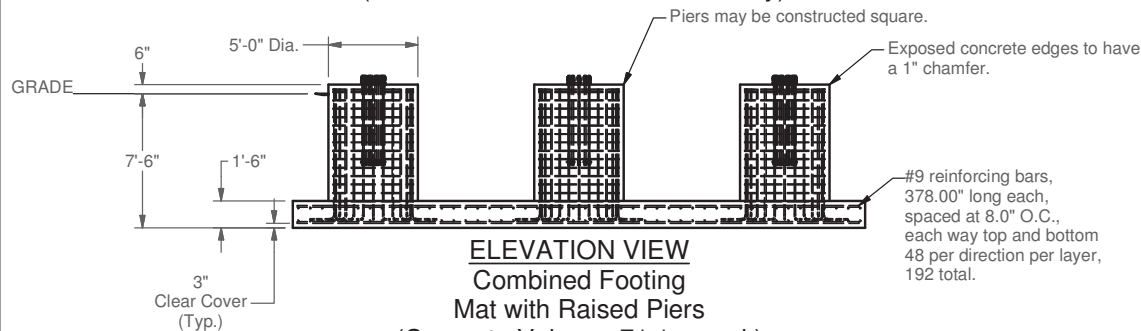
ORIG. DATE: 8/4/2025 DWG NO: 802837
 DWG. PROG: v2.05 SHEET: 1 OF 3

REV	BY	DATE	DESCRIPTION



PLAN VIEW

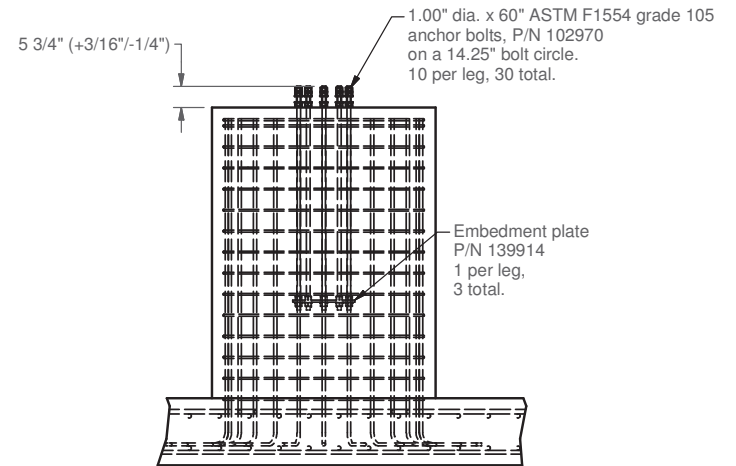
(Reinforcement not shown for clarity)



ELEVATION VIEW

Combined Footing
Mat with Raised Piers

(Concrete Volume: 71.1 cu. yd.)



PIER DETAIL

CAUTION:

1. Ensure that all anchor bolt nuts are tightened.
2. Ensure that all three face width dimensions (pier center to pier center) are measured and verified before pouring concrete.

Concrete Compressive Strength, $f_c = 4500$ psi

#7 reinforcing bars,
100.00" long before being bent with
(2.63" bend radius)
13.13" long 90 degree standard hook,
spaced at 6.8" O.C. around inside of ties.
24 per pier,
72 total.

#4 reinforcing ties,
187.00" long before being bent into
54.00" outer diameter circle with 18.00" overlap,
top 2 spaced at 1.625" with the remainder
spaced at 5.6" O.C. to the top of pad.
15 per pier,
45 total.



TITLE:

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US-KY-5213 / Crockets Trail
Casey Co., KY



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ORIG. DATE: 8/4/2025

DWG NO: 802837

DWG. PROG: v2.05

SHEET: 2 OF 3

REV	BY	DATE	DESCRIPTION

Foundation Notes:

1. This foundation has been designed for the following tower reactions:
- Leg Compression: 485.5 Kips
Leg Uplift: 424.6 Kips
Leg Shear: 36.6 Kips
Tower Shear: 57.2 Kips
Tower Moment: 9214.2 Ft-Kips
Tower Weight: 68.6 Kips
2. Foundation design is based on the Geotechnical Report dated 06/25/2025, by Delta Oaks Group; Project No. GEO25-26108-08.
3. A field inspection shall be performed in order to verify that the actual site soil parameters meet or exceed the assumed soil parameters and that the depth of standard foundations are adequate based on the frost penetration and groundwater depth. Local frost depth must be no deeper than the bottom of the base foundation or the top of the anchor.
4. 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.
5. Welding is prohibited on reinforcing steel and anchorage.
6. Structural backfill placed below pad must be compacted in 8" loose lifts to 98% of maximum dry density at optimum moisture content in accordance with ASTM D698. Backfill must be clean and free of organic and frozen soils and foreign materials.
7. Backfill above foundation should be compacted to 95% of maximum dry density at water content within 2 percent of optimum. Backfill must be clean and free of organic and frozen soils and foreign materials.
8. Finished grade shall be leveled over the entire foundation footprint. Backfill is recommended to slope to native grade using a 2:1 (H:V) slope.
9. Loose material shall be removed from bottom of excavation prior to concrete placement.
10. Concrete cover from exposed surface of concrete to surface of reinforcement shall not be less than 3".
11. Concrete and reinforcement installation must conform to ACI 318, "Building Code Requirements for Structural Concrete."
12. Concrete shall develop a minimum compressive strength of 4500 psi at 28 days.
13. Concrete shall be placed as soon as practical after excavating to avoid disturbance of bearing and side wall surfaces
14. Concrete contractor shall be responsible for properly aligning anchor bolts before and after placing concrete, regardless of whether an anchor bolt template is provided.
15. Positive drainage shall be maintained during construction and throughout the life of the facility to minimize the potential for surface water infiltration.
16. If unsuitable soils are encountered, overexcavation of unsuitable soils for compacted backfill placement below footings should extend laterally beyond all edges of the footings at least 12 inches per foot of overexcavation depth below footing base elevation.
17. It shall be the contractor's responsibility to locate and prevent damage to any existing underground utilities, foundations or other buried objects that might be damaged or interfered with during construction of the foundation.
18. It is permissible to utilize a cold joint during construction of a pier and pad type foundation. The cold joint must be located at the interface of the piers with the pad, and contractor shall use a bonding agent suitable for cold joints.
19. It is permissible for the top of the vertical reinforcement cage alignment to fluctuate slightly, allowing for a minimum clear cover of 2" to a maximum clear cover of 3" over the top of any individual vertical bar.
20. Earthwork operations and foundation installation methods shall be in accordance with the geotechnical report and all applicable American Concrete Institute (ACI) Standards.
21. Temporary steel casing or drilling slurry techniques may be required for installation of the drilled pier foundation. Permanent casing on drilled piers may not be used.
22. Concrete shall be placed by tremie methods if drilling slurry is used or if there is more than 1 inch of water at the bottom of the shaft excavation.
23. Groundwater may be encountered at 15 feet bgs at this site based on the geotechnical investigation. The need for dewatering should be anticipated below this depth.
24. All foundation concrete shall be in accordance with the latest ACI-318 exposure class requirements for corrosive soils.
25. Rock conditions were encountered about 20.8 feet bgs in the geotechnical investigation.
26. This mat design assumes an ultimate bearing capacity of 3880 psf (allowable bearing capacity of 3880 psf) based on the geotechnical report. The bearing surface shall be inspected prior to concrete placement.
27. During placement, concrete shall be suitably consolidated. Proper curing methods shall be used directly following concrete placement as established by the contractor. Concrete shall develop a minimum compressive strength of 3000 psi prior to backfill and compaction operations, and backfill shall be compacted to a minimum moist unit weight of 110 pcf.



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Casey Co., KY



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DWG. PROG: v2.05 SHEET: 3 OF 3

REV	BY	DATE	DESCRIPTION



Design Supporting Calculations

Sales Order: SO33656
Drawing Number(s)
Tower: 802836
Foundation: 802837
Order Description: NSX 23' x 255.3'
Site Name: US-KY-5213 / Crockets Trail
Location: Casey County, KY

Prepared For:
Customer: The Towers, LLC
Contact: Christopher Molloy
Date: 8/5/2025



08/05/2025

Table of Contents

Tower Analysis - Short form

Tower Analysis - Long form

Foundation Analysis

Seismic Analysis

Section	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	P10x.365												
Leg Grade	A500-50												
Diagonals	L4x4x1/4	L3 1/2x3 1/2x1/4											
Diagonal Grade	A529-50												
Top Girts	N.A.												
Face Width (ft)	21.5	20	18.5	17	15.5	14	12.5	11	9.5	8	L2x2x1/8		
# Panels @ (ft)	12 @ 10												
Weight (lb)	4802.7	4425.5	4323.7	4223.6	3811.2	2760.7	2789.6	2708.3	1997.9	1784.8	1441.3	940.0	489.0

255.3 ft

240.0 ft

220.0 ft

200.0 ft

180.0 ft

160.0 ft

140.0 ft

120.0 ft

100.0 ft

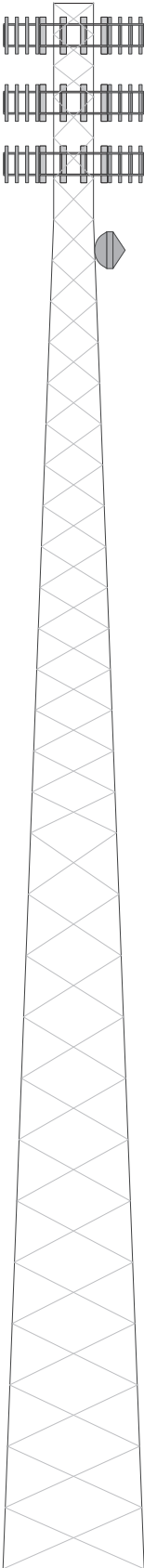
80.0 ft

60.0 ft

40.0 ft

20.0 ft

0.0 ft



ALL REACTIONS
ARE FACTORED

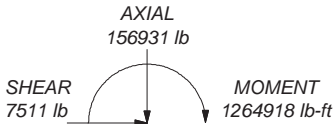
MAX. CORNER REACTIONS AT BASE:

DOWN: 485451 lb

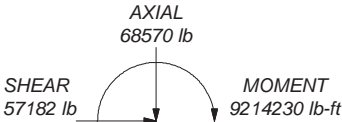
SHEAR: 36588 lb

UPLIFT: -424647 lb

SHEAR: 32572 lb



TORQUE 239 lb-ft
30 mph WIND - 1.5000 in ICE



TORQUE 2466 lb-ft
REACTIONS - 105 mph WIND

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
42,000 sq in CaAa	250	Dish Pipe Mount	215
30,000 sq in CaAa	239	6' Solid w/Radome	215
30,000 sq in CaAa	229		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A500-50	50 ksi	62 ksi	A529-50	50 ksi	65 ksi

TOWER DESIGN NOTES

1. Tower designed for Exposure C to the TIA-222-H Standard.
2. Tower designed for a 105 mph ultimate wind in accordance with the TIA-222-H Standard.
3. Tower is also designed for a 30 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
4. Deflections are based upon a 60 mph wind.
5. Tower Risk Category II.
6. Topographic Category 1 with Crest Height of 0.00 ft
7. TOWER RATING: 98.7%

Nello Corporation

1201 S. Sheridan Street

South Bend, IN 46619

Phone: 800-806-3556

FAX:

Job: SO33656; Tower 802836; Foundation 802837

Project: NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., K

Client: The Towers, LLC

Code: TIA-222-H

Path: N:\eri\8028\802836.eri

Drawn by: AJK

Date: 08/01/25

App'd:

Scale: NTS

Dwg No: E-1

<i>tnxTower</i> <i>Nello Corporation</i> 1201 S. Sheridan Street South Bend, IN 46619 Phone: 800-806-3556 FAX:	Job SO33656; Tower 802836; Foundation 802837	Page 1 of 53
	Project NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date 13:03:29 08/01/25
	Client The Towers, LLC	Designed by AJK

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 255.30 ft above the ground line.

The base of the tower is set at an elevation of 0.00 ft above the ground line.

The face width of the tower is 6.50 ft at the top and 23.00 ft at the base.

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

The following design criteria apply:

Tower base elevation above sea level: 0.00 ft.

Ultimate wind speed of 105 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1.

Crest Height: 0.00 ft.

Nominal ice thickness of 1.5000 in.

Ice thickness is considered to increase with height.

Ice density of 56 pcf.

A wind speed of 30 mph is used in combination with ice.

Temperature drop of 50 °F.

Deflections calculated using a wind speed of 60 mph.

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

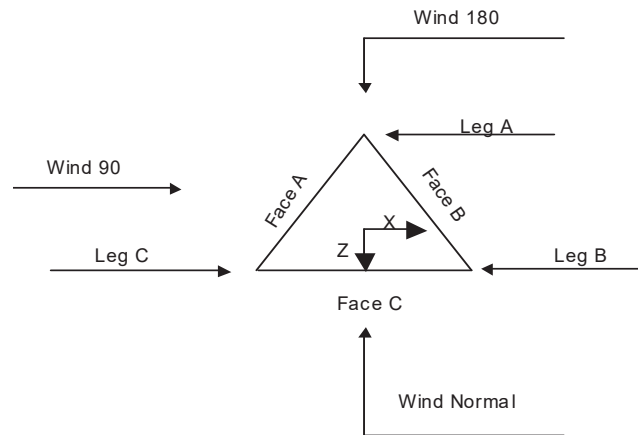
Stress ratio used in tower member design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Horizontals	Assume Legs Pinned	√ Calculate Redundant Bracing Forces
Consider Moments - Diagonals	√ Assume Rigid Index Plate	√ Ignore Redundant Members in FEA
Use Moment Magnification	√ Use Clear Spans For Wind Area	√ SR Leg Bolts Resist Compression
Use Code Stress Ratios	√ Use Clear Spans For KL/r	√ All Leg Panels Have Same Allowable
√ Use Code Safety Factors - Guys	√ Retension Guys To Initial Tension	Offset Girt At Foundation
Escalate Ice	Bypass Mast Stability Checks	Consider Feed Line Torque
Always Use Max Kz	√ Use Azimuth Dish Coefficients	Include Angle Block Shear Check
Use Special Wind Profile	√ Project Wind Area of Appurt.	Use TIA-222-H Bracing Resist. Exemption
Include Bolts In Member Capacity	√ Autocalc Torque Arm Areas	Use TIA-222-H Tension Splice Exemption
√ Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	Poles
√ Secondary Horizontal Braces Leg	Sort Capacity Reports By Component	√ Include Shear-Torsion Interaction
Use Diamond Inner Bracing (4 Sided)	√ Triangulate Diamond Inner Bracing	Always Use Sub-Critical Flow
√ SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	Use Top Mounted Sockets
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	Pole Without Linear Attachments
		Pole With Shroud Or No Appurtenances
		Outside and Inside Corner Radii Are
		Known

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Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	<i>ft</i>			<i>ft</i>		<i>ft</i>
T1	255.30-240.00			6.50	1	15.30
T2	240.00-220.00			6.50	1	20.00
T3	220.00-200.00			6.50	1	20.00
T4	200.00-180.00			8.00	1	20.00
T5	180.00-160.00			9.50	1	20.00
T6	160.00-140.00			11.00	1	20.00
T7	140.00-120.00			12.50	1	20.00
T8	120.00-100.00			14.00	1	20.00
T9	100.00-80.00			15.50	1	20.00
T10	80.00-60.00			17.00	1	20.00
T11	60.00-40.00			18.50	1	20.00
T12	40.00-20.00			20.00	1	20.00
T13	20.00-0.00			21.50	1	20.00

Tower Section Geometry (cont'd)

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	<i>ft</i>	<i>ft</i>				<i>in</i>	<i>in</i>
T1	255.30-240.00	5.07	X Brace	No	No	1.0000	0.0000
T2	240.00-220.00	6.67	X Brace	No	No	0.0000	0.0000

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<i>Tower Section</i>	<i>Tower Elevation</i>	<i>Diagonal Spacing</i>	<i>Bracing Type</i>	<i>Has K Brace End Panels</i>	<i>Has Horizontals</i>	<i>Top Girt Offset</i>	<i>Bottom Girt Offset</i>
	<i>ft</i>	<i>ft</i>				<i>in</i>	<i>in</i>
T3	220.00-200.00	6.67	X Brace	No	No	0.0000	0.0000
T4	200.00-180.00	6.67	X Brace	No	No	0.0000	0.0000
T5	180.00-160.00	6.67	X Brace	No	No	0.0000	0.0000
T6	160.00-140.00	6.67	X Brace	No	No	0.0000	0.0000
T7	140.00-120.00	6.67	X Brace	No	No	0.0000	0.0000
T8	120.00-100.00	10.00	X Brace	No	No	0.0000	0.0000
T9	100.00-80.00	10.00	X Brace	No	No	0.0000	0.0000
T10	80.00-60.00	10.00	X Brace	No	No	0.0000	0.0000
T11	60.00-40.00	10.00	X Brace	No	No	0.0000	0.0000
T12	40.00-20.00	10.00	X Brace	No	No	0.0000	0.0000
T13	20.00-0.00	10.00	X Brace	No	No	0.0000	0.0000

Tower Section Geometry (cont'd)

<i>Tower Elevation</i>	<i>Leg Type</i>	<i>Leg Size</i>	<i>Leg Grade</i>	<i>Diagonal Type</i>	<i>Diagonal Size</i>	<i>Diagonal Grade</i>
<i>ft</i>						
T1 255.30-240.00	Pipe	P2x.154	A500-50 (50 ksi)	Equal Angle	L2x2x1/8	A529-50 (50 ksi)
T2 240.00-220.00	Pipe	P3x.216	A500-50 (50 ksi)	Equal Angle	L2x2x3/16	A529-50 (50 ksi)
T3 220.00-200.00	Pipe	P5x.258	A500-50 (50 ksi)	Equal Angle	L2x2x3/16	A529-50 (50 ksi)
T4 200.00-180.00	Pipe	P6x.28	A500-50 (50 ksi)	Equal Angle	L2x2x3/16	A529-50 (50 ksi)
T5 180.00-160.00	Pipe	P6x.28	A500-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A529-50 (50 ksi)
T6 160.00-140.00	Pipe	P8x.322	A500-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A529-50 (50 ksi)
T7 140.00-120.00	Pipe	P8x.322	A500-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A529-50 (50 ksi)
T8 120.00-100.00	Pipe	P8x.322	A500-50 (50 ksi)	Equal Angle	L3x3x3/16	A529-50 (50 ksi)
T9 100.00-80.00	Pipe	P10x.365	A500-50 (50 ksi)	Equal Angle	L3x3x3/16	A529-50 (50 ksi)
T10 80.00-60.00	Pipe	P10x.365	A500-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A529-50 (50 ksi)
T11 60.00-40.00	Pipe	P10x.365	A500-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A529-50 (50 ksi)
T12 40.00-20.00	Pipe	P10x.365	A500-50 (50 ksi)	Equal Angle	L3 1/2x3 1/2x1/4	A529-50 (50 ksi)
T13 20.00-0.00	Pipe	P10x.365	A500-50 (50 ksi)	Equal Angle	L4x4x1/4	A529-50 (50 ksi)

Tower Section Geometry (cont'd)

<i>Tower Elevation</i>	<i>Top Girt Type</i>	<i>Top Girt Size</i>	<i>Top Girt Grade</i>	<i>Bottom Girt Type</i>	<i>Bottom Girt Size</i>	<i>Bottom Girt Grade</i>
<i>ft</i>						
T1 255.30-240.00	Equal Angle	L2x2x1/8	A529-50 (50 ksi)	Solid Round		A529-50 (50 ksi)

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Tower Section Geometry (cont'd)

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in
T1	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
255.30-240.00			(36 ksi)						
T2	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
240.00-220.00			(36 ksi)						
T3	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
220.00-200.00			(36 ksi)						
T4	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
200.00-180.00			(36 ksi)						
T5	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
180.00-160.00			(36 ksi)						
T6	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
160.00-140.00			(36 ksi)						
T7	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
140.00-120.00			(36 ksi)						
T8	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
120.00-100.00			(36 ksi)						
T9	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
100.00-80.00			(36 ksi)						
T10	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
80.00-60.00			(36 ksi)						
T11	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
60.00-40.00			(36 ksi)						
T12	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
40.00-20.00			(36 ksi)						
T13 20.00-0.00	0.00	0.0000	A36	1	1	1.1	36.0000	36.0000	36.0000
			(36 ksi)						

Tower Section Geometry (cont'd)

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	K Factors ¹							
			Legs	X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace
				X Y	X Y	X Y	X Y	X Y	X Y	X Y
T1	No	Yes	1	1	1	1	1	1	1	1
255.30-240.00				1	1	1	1	1	1	1
T2	No	Yes	1	1	1	1	1	1	1	1
240.00-220.00				1	1	1	1	1	1	1
T3	No	Yes	1	1	1	1	1	1	1	1
220.00-200.00				1	1	1	1	1	1	1
T4	No	Yes	1	1	1	1	1	1	1	1
200.00-180.00				1	1	1	1	1	1	1
T5	No	Yes	1	1	1	1	1	1	1	1
180.00-160.00				1	1	1	1	1	1	1
T6	No	Yes	1	1	1	1	1	1	1	1
160.00-140.00				1	1	1	1	1	1	1
T7	No	Yes	1	1	1	1	1	1	1	1

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Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
255.30-240.00														
T2	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
240.00-220.00														
T3	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
220.00-200.00														
T4	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
200.00-180.00														
T5	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
180.00-160.00														
T6	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
160.00-140.00														
T7	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
140.00-120.00														
T8	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
120.00-100.00														
T9	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
100.00-80.00														
T10	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
80.00-60.00														
T11	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
60.00-40.00														
T12	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75
40.00-20.00														
T13 20.00-0.00	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75	0.0000	0.75

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	Number Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight plf
LDF7-50A (1-5/8 FOAM)	C	No	Yes	Ar (CaAa)	250.00 - 0.00	18	6	0.2700 0.0000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	B	No	Yes	Ar (CaAa)	239.00 - 0.00	12	4	0.2700 0.0000	1.9800		0.82
LDF7-50A (1-5/8 FOAM)	A	No	Yes	Ar (CaAa)	229.00 - 0.00	12	4	0.2700 0.0000	1.9800		0.82
EW63	B	No	Yes	Ar (CaAa)	215.00 - 0.00	1	1	0.6758 0.0000	1.5742		0.51
1" Conduit	C	No	Yes	Ar (CaAa)	255.00 - 0.00	1	1	2.2400 0.0000	0.0100		0.50

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A _R ft ²	A _F ft ²	C _A A _A In Face ft ²	C _A A _A Out Face ft ²	Weight lb
T1	255.30-240.00	A	0.000	0.000	0.000	0.000	0.00
		B	0.000	0.000	0.000	0.000	0.00

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<i>Tower Section</i>	<i>Tower Elevation ft</i>	<i>Face</i>	<i>A_R</i> <i>ft²</i>	<i>A_F</i> <i>ft²</i>	<i>C_AA_A</i> <i>In Face ft²</i>	<i>C_AA_A</i> <i>Out Face ft²</i>	<i>Weight lb</i>
T2	240.00-220.00	C	0.000	0.000	35.655	0.000	155.10
		A	0.000	0.000	21.384	0.000	88.56
		B	0.000	0.000	45.144	0.000	186.96
T3	220.00-200.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	49.881	0.000	204.45
T4	200.00-180.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	50.668	0.000	207.00
T5	180.00-160.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	50.668	0.000	207.00
T6	160.00-140.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	50.668	0.000	207.00
T7	140.00-120.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	50.668	0.000	207.00
T8	120.00-100.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	50.668	0.000	207.00
T9	100.00-80.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	50.668	0.000	207.00
T10	80.00-60.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	50.668	0.000	207.00
T11	60.00-40.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	50.668	0.000	207.00
T12	40.00-20.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	50.668	0.000	207.00
T13	20.00-0.00	C	0.000	0.000	71.300	0.000	305.20
		A	0.000	0.000	47.520	0.000	196.80
		B	0.000	0.000	50.668	0.000	207.00
		C	0.000	0.000	71.300	0.000	305.20

Feed Line/Linear Appurtenances Section Areas - With Ice

<i>Tower Section</i>	<i>Tower Elevation ft</i>	<i>Face or Leg</i>	<i>Ice Thickness in</i>	<i>A_R</i> <i>ft²</i>	<i>A_F</i> <i>ft²</i>	<i>C_AA_A</i> <i>In Face ft²</i>	<i>C_AA_A</i> <i>Out Face ft²</i>	<i>Weight lb</i>
T1	255.30-240.00	A	1.835	0.000	0.000	0.000	0.000	0.00
		B		0.000	0.000	0.000	0.000	0.00
		C		0.000	0.000	29.821	0.000	606.54
T2	240.00-220.00	A	1.821	0.000	0.000	17.606	0.000	350.48
		B		0.000	0.000	37.168	0.000	739.90
		C		0.000	0.000	55.816	0.000	1160.46
T3	220.00-200.00	A	1.805	0.000	0.000	39.009	0.000	773.83
		B		0.000	0.000	46.785	0.000	893.25
		C		0.000	0.000	55.638	0.000	1152.83
T4	200.00-180.00	A	1.787	0.000	0.000	38.883	0.000	768.39
		B		0.000	0.000	49.179	0.000	925.35
		C		0.000	0.000	55.444	0.000	1144.55
T5	180.00-160.00	A	1.767	0.000	0.000	38.744	0.000	762.42
		B		0.000	0.000	48.962	0.000	916.91
		C		0.000	0.000	55.230	0.000	1135.48

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<i>Tower Section</i>	<i>Tower Elevation ft</i>	<i>Face or Leg</i>	<i>Ice Thickness in</i>	<i>A_R ft²</i>	<i>A_F ft²</i>	<i>C_{AA} In Face ft²</i>	<i>C_{AA} Out Face ft²</i>	<i>Weight lb</i>
T6	160.00-140.00	A	1.745	0.000	0.000	38.590	0.000	755.81
		B		0.000	0.000	48.719	0.000	907.56
		C		0.000	0.000	54.992	0.000	1125.44
T7	140.00-120.00	A	1.720	0.000	0.000	38.416	0.000	748.38
		B		0.000	0.000	48.446	0.000	897.08
		C		0.000	0.000	54.724	0.000	1114.16
T8	120.00-100.00	A	1.692	0.000	0.000	38.216	0.000	739.88
		B		0.000	0.000	48.132	0.000	885.10
		C		0.000	0.000	54.416	0.000	1101.28
T9	100.00-80.00	A	1.658	0.000	0.000	37.981	0.000	729.90
		B		0.000	0.000	47.762	0.000	871.08
		C		0.000	0.000	54.053	0.000	1086.19
T10	80.00-60.00	A	1.617	0.000	0.000	37.692	0.000	717.76
		B		0.000	0.000	47.309	0.000	854.06
		C		0.000	0.000	53.608	0.000	1067.86
T11	60.00-40.00	A	1.564	0.000	0.000	37.317	0.000	702.10
		B		0.000	0.000	46.720	0.000	832.18
		C		0.000	0.000	53.030	0.000	1044.28
T12	40.00-20.00	A	1.486	0.000	0.000	36.771	0.000	679.55
		B		0.000	0.000	45.863	0.000	800.84
		C		0.000	0.000	52.190	0.000	1010.47
T13	20.00-0.00	A	1.331	0.000	0.000	35.689	0.000	635.68
		B		0.000	0.000	44.162	0.000	740.39
		C		0.000	0.000	50.523	0.000	945.10

Shielding Factor Ka

<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
T1	1	LDF7-50A (1-5/8 FOAM)	240.00 - 250.00	0.6000	0.6000
T1	5	1" Conduit	240.00 - 255.00	0.6000	0.6000
T2	1	LDF7-50A (1-5/8 FOAM)	220.00 - 240.00	0.6000	0.6000
T2	2	LDF7-50A (1-5/8 FOAM)	220.00 - 239.00	0.6000	0.6000
T2	3	LDF7-50A (1-5/8 FOAM)	220.00 - 229.00	0.6000	0.6000
T2	5	1" Conduit	220.00 - 240.00	0.6000	0.6000
T3	1	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.6000
T3	2	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.6000
T3	3	LDF7-50A (1-5/8 FOAM)	200.00 - 220.00	0.6000	0.6000
T3	4	EW63	200.00 - 215.00	0.6000	0.6000
T3	5	1" Conduit	200.00 - 220.00	0.6000	0.6000
T4	1	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.6000
T4	2	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.6000

<i>tnxTower</i> <i>Nello Corporation</i> 1201 S. Sheridan Street South Bend, IN 46619 Phone: 800-806-3556 FAX:	Job SO33656; Tower 802836; Foundation 802837	Page 9 of 53
	Project NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date 13:03:29 08/01/25
	Client The Towers, LLC	Designed by AJK

<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
T4	3	LDF7-50A (1-5/8 FOAM)	180.00 - 200.00	0.6000	0.6000
T4	4	EW63	180.00 - 200.00	0.6000	0.6000
T4	5	1" Conduit	180.00 - 200.00	0.6000	0.6000
T5	1	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.6000
T5	2	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.6000
T5	3	LDF7-50A (1-5/8 FOAM)	160.00 - 180.00	0.6000	0.6000
T5	4	EW63	160.00 - 180.00	0.6000	0.6000
T5	5	1" Conduit	160.00 - 180.00	0.6000	0.6000
T6	1	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T6	2	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T6	3	LDF7-50A (1-5/8 FOAM)	140.00 - 160.00	0.6000	0.6000
T6	4	EW63	140.00 - 160.00	0.6000	0.6000
T6	5	1" Conduit	140.00 - 160.00	0.6000	0.6000
T7	1	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T7	2	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T7	3	LDF7-50A (1-5/8 FOAM)	120.00 - 140.00	0.6000	0.6000
T7	4	EW63	120.00 - 140.00	0.6000	0.6000
T7	5	1" Conduit	120.00 - 140.00	0.6000	0.6000
T8	1	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T8	2	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T8	3	LDF7-50A (1-5/8 FOAM)	100.00 - 120.00	0.6000	0.6000
T8	4	EW63	100.00 - 120.00	0.6000	0.6000
T8	5	1" Conduit	100.00 - 120.00	0.6000	0.6000
T9	1	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T9	2	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T9	3	LDF7-50A (1-5/8 FOAM)	80.00 - 100.00	0.6000	0.6000
T9	4	EW63	80.00 - 100.00	0.6000	0.6000
T9	5	1" Conduit	80.00 - 100.00	0.6000	0.6000
T10	1	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T10	2	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T10	3	LDF7-50A (1-5/8 FOAM)	60.00 - 80.00	0.6000	0.6000
T10	4	EW63	60.00 - 80.00	0.6000	0.6000
T10	5	1" Conduit	60.00 - 80.00	0.6000	0.6000
T11	1	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T11	2	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T11	3	LDF7-50A (1-5/8 FOAM)	40.00 - 60.00	0.6000	0.6000
T11	4	EW63	40.00 - 60.00	0.6000	0.6000
T11	5	1" Conduit	40.00 - 60.00	0.6000	0.6000
T12	1	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000

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	Project NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date 13:03:29 08/01/25
	Client The Towers, LLC	Designed by AJK

<i>Tower Section</i>	<i>Feed Line Record No.</i>	<i>Description</i>	<i>Feed Line Segment Elev.</i>	<i>K_a No Ice</i>	<i>K_a Ice</i>
T12	2	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T12	3	LDF7-50A (1-5/8 FOAM)	20.00 - 40.00	0.6000	0.6000
T12	4	EW63	20.00 - 40.00	0.6000	0.6000
T12	5	1" Conduit	20.00 - 40.00	0.6000	0.6000
T13	1	LDF7-50A (1-5/8 FOAM)	0.00 - 20.00	0.6000	0.6000
T13	2	LDF7-50A (1-5/8 FOAM)	0.00 - 20.00	0.6000	0.6000
T13	3	LDF7-50A (1-5/8 FOAM)	0.00 - 20.00	0.6000	0.6000
T13	4	EW63	0.00 - 20.00	0.6000	0.6000
T13	5	1" Conduit	0.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

<i>Description</i>	<i>Face or Leg</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft ft ft</i>	<i>Azimuth Adjustment °</i>	<i>Placement ft</i>		<i>C_AA_A Front ft²</i>	<i>C_AA_A Side ft²</i>	<i>Weight lb</i>
42,000 sq in CaAa	C	None		0.0000	250.00	No Ice	292.00	292.00	4964.00
						1/2" Ice	350.00	350.00	6652.00
						1" Ice	408.00	408.00	8340.00
						2" Ice	524.00	524.00	11716.00
30,000 sq in CaAa	B	None		0.0000	239.00	No Ice	208.00	208.00	3536.00
						1/2" Ice	250.00	250.00	4738.00
						1" Ice	292.00	292.00	5940.00
						2" Ice	376.00	376.00	8344.00
30,000 sq in CaAa	A	None		0.0000	229.00	No Ice	208.00	208.00	3536.00
						1/2" Ice	250.00	250.00	4738.00
						1" Ice	292.00	292.00	5940.00
						2" Ice	376.00	376.00	8344.00
Dish Pipe Mount	B	From Leg	0.00	0.0000	215.00	No Ice	0.00	1.80	103.00
			0.00			1/2" Ice	0.00	2.10	119.00
			0.00			1" Ice	0.00	2.40	135.00
						2" Ice	0.00	3.00	167.00

Dishes

<i>Description</i>	<i>Face or Leg</i>	<i>Dish Type</i>	<i>Offset Type</i>	<i>Offsets: Horz Lateral Vert ft</i>	<i>Azimuth Adjustment °</i>	<i>3 dB Beam Width °</i>	<i>Elevation ft</i>	<i>Outside Diameter ft</i>	<i>Aperture Area ft²</i>	<i>Weight lb</i>	
6' Solid w/Radome	B	Paraboloid w/Radome	From Leg	0.00	0.0000		215.00	6.00	No Ice	28.27	162.00
				0.00					1/2" Ice	29.07	321.00
				0.00					1" Ice	29.86	480.00
									2" Ice	31.44	798.00

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	Client	The Towers, LLC	Designed by	AJK

Tower Pressures - No Ice

$$G_H = 0.850$$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
T1 255.30-240.00	247.65	1.532	37	102.478	A	9.044	6.056	6.056	40.11	0.000	0.000
					B	9.044	6.056		40.11	0.000	0.000
					C	9.044	6.056		40.11	35.655	0.000
T2 240.00-220.00	230.00	1.508	36	135.833	A	8.893	11.667	11.667	56.74	21.384	0.000
					B	8.893	11.667		56.74	45.144	0.000
					C	8.893	11.667		56.74	71.300	0.000
T3 220.00-200.00	210.00	1.48	35	154.278	A	9.223	18.561	18.561	66.80	47.520	0.000
					B	9.223	18.561		66.80	49.881	0.000
					C	9.223	18.561		66.80	71.300	0.000
T4 200.00-180.00	190.00	1.449	35	186.049	A	10.309	22.104	22.104	68.19	47.520	0.000
					B	10.309	22.104		68.19	50.668	0.000
					C	10.309	22.104		68.19	71.300	0.000
T5 180.00-160.00	170.00	1.415	34	216.049	A	14.464	22.104	22.104	60.45	47.520	0.000
					B	14.464	22.104		60.45	50.668	0.000
					C	14.464	22.104		60.45	71.300	0.000
T6 160.00-140.00	150.00	1.378	33	249.385	A	15.856	28.777	28.777	64.47	47.520	0.000
					B	15.856	28.777		64.47	50.668	0.000
					C	15.856	28.777		64.47	71.300	0.000
T7 140.00-120.00	130.00	1.337	32	279.385	A	17.537	28.777	28.777	62.13	47.520	0.000
					B	17.537	28.777		62.13	50.668	0.000
					C	17.537	28.777		62.13	71.300	0.000
T8 120.00-100.00	110.00	1.291	31	309.385	A	16.954	28.777	28.777	62.93	47.520	0.000
					B	16.954	28.777		62.93	50.668	0.000
					C	16.954	28.777		62.93	71.300	0.000
T9 100.00-80.00	90.00	1.238	30	342.929	A	18.031	35.867	35.867	66.55	47.520	0.000
					B	18.031	35.867		66.55	50.668	0.000
					C	18.031	35.867		66.55	71.300	0.000
T10 80.00-60.00	70.00	1.174	28	372.929	A	22.571	35.867	35.867	61.38	47.520	0.000
					B	22.571	35.867		61.38	50.668	0.000
					C	22.571	35.867		61.38	71.300	0.000
T11 60.00-40.00	50.00	1.094	26	402.929	A	24.132	35.867	35.867	59.78	47.520	0.000
					B	24.132	35.867		59.78	50.668	0.000
					C	24.132	35.867		59.78	71.300	0.000
T12 40.00-20.00	30.00	0.982	24	432.929	A	25.715	35.867	35.867	58.24	47.520	0.000
					B	25.715	35.867		58.24	50.668	0.000
					C	25.715	35.867		58.24	71.300	0.000
T13 20.00-0.00	10.00	0.85	20	462.929	A	31.218	35.867	35.867	53.47	47.520	0.000
					B	31.218	35.867		53.47	50.668	0.000
					C	31.218	35.867		53.47	71.300	0.000

Tower Pressure - With Ice

$$G_H = 0.850$$

Section Elevation	z	K _Z	q _z	t _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _A A _A In Face ft ²	C _A A _A Out Face ft ²
ft	ft		psf	in	ft ²		ft ²	ft ²	ft ²			
T1 255.30-240.00	247.65	1.532	3	1.8349	107.157	A	9.044	32.010	15.414	37.55	0.000	0.000
						B	9.044	32.010		37.55	0.000	0.000

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Section Elevation	z	K _Z	q _z	t _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
ft	ft		psf	in	ft ²		ft ²	ft ²	ft ²			ft ²
T2 240.00-220.00	230.00	1.508	3	1.8214	141.905	C	9.044	32.010		37.55	29.821	0.000
						A	8.893	40.008	23.810	48.69	17.606	0.000
						B	8.893	40.008		48.69	37.168	0.000
						C	8.893	40.008		48.69	55.816	0.000
T3 220.00-200.00	210.00	1.48	3	1.8049	160.299	A	9.223	47.252	30.605	54.19	39.009	0.000
						B	9.223	47.252		54.19	46.785	0.000
						C	9.223	47.252		54.19	55.638	0.000
T4 200.00-180.00	190.00	1.449	3	1.7870	192.010	A	10.309	52.451	34.028	54.22	38.883	0.000
						B	10.309	52.451		54.22	49.179	0.000
						C	10.309	52.451		54.22	55.444	0.000
T5 180.00-160.00	170.00	1.415	3	1.7672	221.944	A	14.464	54.345	33.896	49.26	38.744	0.000
						B	14.464	54.345		49.26	48.962	0.000
						C	14.464	54.345		49.26	55.230	0.000
T6 160.00-140.00	150.00	1.378	3	1.7452	255.207	A	15.856	62.561	40.423	51.55	38.590	0.000
						B	15.856	62.561		51.55	48.719	0.000
						C	15.856	62.561		51.55	54.992	0.000
T7 140.00-120.00	130.00	1.337	3	1.7204	285.124	A	17.537	64.394	40.257	49.14	38.416	0.000
						B	17.537	64.394		49.14	48.446	0.000
						C	17.537	64.394		49.14	54.724	0.000
T8 120.00-100.00	110.00	1.291	3	1.6919	315.029	A	16.954	59.190	40.067	52.62	38.216	0.000
						B	16.954	59.190		52.62	48.132	0.000
						C	16.954	59.190		52.62	54.416	0.000
T9 100.00-80.00	90.00	1.238	2	1.6583	348.461	A	18.031	66.866	46.933	55.28	37.981	0.000
						B	18.031	66.866		55.28	47.762	0.000
						C	18.031	66.866		55.28	54.053	0.000
T10 80.00-60.00	70.00	1.174	2	1.6171	378.324	A	22.571	67.516	46.658	51.79	37.692	0.000
						B	22.571	67.516		51.79	47.309	0.000
						C	22.571	67.516		51.79	53.608	0.000
T11 60.00-40.00	50.00	1.094	2	1.5636	408.145	A	24.132	67.863	46.301	50.33	37.317	0.000
						B	24.132	67.863		50.33	46.720	0.000
						C	24.132	67.863		50.33	53.030	0.000
T12 40.00-20.00	30.00	0.982	2	1.4858	437.885	A	25.715	67.613	45.781	49.05	36.771	0.000
						B	25.715	67.613		49.05	45.863	0.000
						C	25.715	67.613		49.05	52.190	0.000
T13 20.00-0.00	10.00	0.85	2	1.3312	467.370	A	31.218	65.528	44.750	46.26	35.689	0.000
						B	31.218	65.528		46.26	44.162	0.000
						C	31.218	65.528		46.26	50.523	0.000

Tower Pressure - Service

$$G_H = 0.850$$

Section Elevation	z	K _Z	q _z	A _G	F a c e	A _F	A _R	A _{leg}	Leg %	C _{AA} In Face ft ²	C _{AA} Out Face ft ²
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			ft ²
T1 255.30-240.00	247.65	1.532	12	102.478	A	9.044	6.056	6.056	40.11	0.000	0.000
					B	9.044	6.056		40.11	0.000	0.000
					C	9.044	6.056		40.11	35.655	0.000
T2 240.00-220.00	230.00	1.508	12	135.833	A	8.893	11.667	11.667	56.74	21.384	0.000
					B	8.893	11.667		56.74	45.144	0.000
					C	8.893	11.667		56.74	71.300	0.000
T3 220.00-200.00	210.00	1.48	12	154.278	A	9.223	18.561	18.561	66.80	47.520	0.000
					B	9.223	18.561		66.80	49.881	0.000
					C	9.223	18.561		66.80	71.300	0.000

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	Client The Towers, LLC	Designed by AJK

Section Elevation	<i>z</i>	<i>K_Z</i>	<i>q_z</i>	<i>A_G</i>	<i>F_{a c e}</i>	<i>A_F</i>	<i>A_R</i>	<i>A_{leg}</i>	<i>Leg %</i>	<i>C_{A A A} In Face ft²</i>	<i>C_{A A A} Out Face ft²</i>
ft	ft		psf	ft ²		ft ²	ft ²	ft ²			
T4 200.00-180.00	190.00	1.449	11	186.049	A	10.309	22.104	22.104	68.19	47.520	0.000
					B	10.309	22.104		68.19	50.668	0.000
					C	10.309	22.104		68.19	71.300	0.000
T5 180.00-160.00	170.00	1.415	11	216.049	A	14.464	22.104	22.104	60.45	47.520	0.000
					B	14.464	22.104		60.45	50.668	0.000
					C	14.464	22.104		60.45	71.300	0.000
T6 160.00-140.00	150.00	1.378	11	249.385	A	15.856	28.777	28.777	64.47	47.520	0.000
					B	15.856	28.777		64.47	50.668	0.000
					C	15.856	28.777		64.47	71.300	0.000
T7 140.00-120.00	130.00	1.337	10	279.385	A	17.537	28.777	28.777	62.13	47.520	0.000
					B	17.537	28.777		62.13	50.668	0.000
					C	17.537	28.777		62.13	71.300	0.000
T8 120.00-100.00	110.00	1.291	10	309.385	A	16.954	28.777	28.777	62.93	47.520	0.000
					B	16.954	28.777		62.93	50.668	0.000
					C	16.954	28.777		62.93	71.300	0.000
T9 100.00-80.00	90.00	1.238	10	342.929	A	18.031	35.867	35.867	66.55	47.520	0.000
					B	18.031	35.867		66.55	50.668	0.000
					C	18.031	35.867		66.55	71.300	0.000
T10 80.00-60.00	70.00	1.174	9	372.929	A	22.571	35.867	35.867	61.38	47.520	0.000
					B	22.571	35.867		61.38	50.668	0.000
					C	22.571	35.867		61.38	71.300	0.000
T11 60.00-40.00	50.00	1.094	9	402.929	A	24.132	35.867	35.867	59.78	47.520	0.000
					B	24.132	35.867		59.78	50.668	0.000
					C	24.132	35.867		59.78	71.300	0.000
T12 40.00-20.00	30.00	0.982	8	432.929	A	25.715	35.867	35.867	58.24	47.520	0.000
					B	25.715	35.867		58.24	50.668	0.000
					C	25.715	35.867		58.24	71.300	0.000
T13 20.00-0.00	10.00	0.85	7	462.929	A	31.218	35.867	35.867	53.47	47.520	0.000
					B	31.218	35.867		53.47	50.668	0.000
					C	31.218	35.867		53.47	71.300	0.000

Tower Forces - No Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	<i>F_{a c e}</i>	<i>e</i>	<i>C_F</i>	<i>q_z</i>	<i>D_F</i>	<i>D_R</i>	<i>A_E</i>	<i>F</i>	<i>w</i>	<i>Ctrl. Face</i>
ft	lb	lb				psf			ft ²	lb	plf	
T1 255.30-240.00	155.10	489.04	A	0.147	2.781	37	1	1	12.480	1394.46	91.14	C
			B	0.147	2.781		1	1	12.480			
			C	0.147	2.781		1	1	12.480			
T2 240.00-220.00	580.72	949.02	A	0.151	2.766	36	1	1	15.516	2359.54	117.98	C
			B	0.151	2.766		1	1	15.516			
			C	0.151	2.766		1	1	15.516			
T3 220.00-200.00	706.45	1441.29	A	0.18	2.664	35	1	1	18.512	2730.50	136.52	C
			B	0.18	2.664		1	1	18.512			
			C	0.18	2.664		1	1	18.512			
T4 200.00-180.00	709.00	1784.76	A	0.174	2.684	35	1	1	20.493	2855.87	142.79	C
			B	0.174	2.684		1	1	20.493			
			C	0.174	2.684		1	1	20.493			
T5 180.00-160.00	709.00	1997.92	A	0.169	2.702	34	1	1	24.663	3125.28	156.26	C
			B	0.169	2.702		1	1	24.663			
			C	0.169	2.702		1	1	24.663			
T6 160.00-140.00	709.00	2709.25	A	0.179	2.668	33	1	1	28.345	3296.41	164.82	C
			B	0.179	2.668		1	1	28.345			
			C	0.179	2.668		1	1	28.345			
T7 140.00-120.00	709.00	2789.64	A	0.166	2.714	32	1	1	29.822	3343.88	167.19	C
			B	0.166	2.714		1	1	29.822			

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	Project NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date 13:03:29 08/01/25
	Client The Towers, LLC	Designed by AJK

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T8 120.00-100.00	709.00	2760.70	C A B C	0.166 0.148 0.148 0.148	2.714 2.78 2.78 2.78	31	1 1 1 1	1 1 1 1	29.822 28.971 28.971 28.971	3217.32	160.87	C
T9 100.00-80.00	709.00	3611.19	A B C	0.157 0.157 0.157	2.745 2.745 2.745	30	1 1 1	1 1 1	33.180 33.180 33.180	3350.83	167.54	C
T10 80.00-60.00	709.00	4223.58	A B C	0.157 0.157 0.157	2.747 2.747 2.747	28	1 1 1	1 1 1	37.712 37.712 37.712	3477.55	173.88	C
T11 60.00-40.00	709.00	4323.72	A B C	0.149 0.149 0.149	2.776 2.776 2.776	26	1 1 1	1 1 1	39.130 39.130 39.130	3351.50	167.57	C
T12 40.00-20.00	709.00	4425.54	A B C	0.142 0.142 0.142	2.8 2.8 2.8	24	1 1 1	1 1 1	40.592 40.592 40.592	3111.17	155.56	C
T13 20.00-0.00	709.00	4802.70	A B C	0.145 0.145 0.145	2.79 2.79 2.79	20	1 1 1	1 1 1	46.143 46.143 46.143	2953.75	147.69	C
Sum Weight:	8532.27	36308.35						OTM	4653870.9 0 lb-ft	38568.06		

Tower Forces - No Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T1 255.30-240.00	155.10	489.04	A B C	0.147 0.147 0.147	2.781 2.781 2.781	37	0.8 0.8 0.8	1 1 1	10.671 10.671 10.671	1237.31	80.87	A
T2 240.00-220.00	580.72	949.02	A B C	0.151 0.151 0.151	2.766 2.766 2.766	36	0.8 0.8 0.8	1 1 1	13.737 13.737 13.737	2208.21	110.41	A
T3 220.00-200.00	706.45	1441.29	A B C	0.18 0.18 0.18	2.664 2.664 2.664	35	0.8 0.8 0.8	1 1 1	16.667 16.667 16.667	2582.24	129.11	A
T4 200.00-180.00	709.00	1784.76	A B C	0.174 0.174 0.174	2.684 2.684 2.684	35	0.8 0.8 0.8	1 1 1	18.432 18.432 18.432	2692.36	134.62	A
T5 180.00-160.00	709.00	1997.92	A B C	0.169 0.169 0.169	2.702 2.702 2.702	34	0.8 0.8 0.8	1 1 1	21.771 21.771 21.771	2899.72	144.99	A
T6 160.00-140.00	709.00	2709.25	A B C	0.179 0.179 0.179	2.668 2.668 2.668	33	0.8 0.8 0.8	1 1 1	25.174 25.174 25.174	3058.61	152.93	A
T7 140.00-120.00	709.00	2789.64	A B C	0.166 0.166 0.166	2.714 2.714 2.714	32	0.8 0.8 0.8	1 1 1	26.314 26.314 26.314	3084.22	154.21	A
T8 120.00-100.00	709.00	2760.70	A B C	0.148 0.148 0.148	2.78 2.78 2.78	31	0.8 0.8 0.8	1 1 1	25.580 25.580 25.580	2969.15	148.46	A
T9 100.00-80.00	709.00	3611.19	A B	0.157 0.157	2.745 2.745	30	0.8 0.8	1 1	29.574 29.574	3100.94	155.05	A

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	Project NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date 13:03:29 08/01/25
	Client The Towers, LLC	Designed by AJK

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T10 80.00-60.00	709.00	4223.58	C A B C	0.157 0.157 0.157 0.157	2.745 2.747 2.747 2.747	28	0.8 0.8 0.8 0.8	1 1 1 1	29.574 33.198 33.198 33.198	3180.66	159.03	A
T11 60.00-40.00	709.00	4323.72	A B C	0.149 0.149 0.149	2.776 2.776 2.776	26	0.8 0.8 0.8	1 1 1	34.303 34.303 34.303	3052.72	152.64	A
T12 40.00-20.00	709.00	4425.54	A B C	0.142 0.142 0.142	2.8 2.8 2.8	24	0.8 0.8 0.8	1 1 1	35.449 35.449 35.449	2822.71	141.14	A
T13 20.00-0.00	709.00	4802.70	A B C	0.145 0.145 0.145	2.79 2.79 2.79	20	0.8 0.8 0.8	1 1 1	39.899 39.899 39.899	2651.78	132.59	A
Sum Weight:	8532.27	36308.35						OTM	4312991.3 7 lb-ft	35540.64		

Tower Forces - No Ice - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T1 255.30-240.00	155.10	489.04	A B C	0.147 0.147 0.147	2.781 2.781 2.781	37	0.85 0.85 0.85	1 1 1	11.123 11.123 11.123	1233.90	80.65	B
T2 240.00-220.00	580.72	949.02	A B C	0.151 0.151 0.151	2.766 2.766 2.766	36	0.85 0.85 0.85	1 1 1	14.182 14.182 14.182	2208.62	110.43	A
T3 220.00-200.00	706.45	1441.29	A B C	0.18 0.18 0.18	2.664 2.664 2.664	35	0.85 0.85 0.85	1 1 1	17.129 17.129 17.129	2568.39	128.42	B
T4 200.00-180.00	709.00	1784.76	A B C	0.174 0.174 0.174	2.684 2.684 2.684	35	0.85 0.85 0.85	1 1 1	18.947 18.947 18.947	2683.38	134.17	B
T5 180.00-160.00	709.00	1997.92	A B C	0.169 0.169 0.169	2.702 2.702 2.702	34	0.85 0.85 0.85	1 1 1	22.494 22.494 22.494	2907.41	145.37	B
T6 160.00-140.00	709.00	2709.25	A B C	0.179 0.179 0.179	2.668 2.668 2.668	33	0.85 0.85 0.85	1 1 1	25.967 25.967 25.967	3070.63	153.53	B
T7 140.00-120.00	709.00	2789.64	A B C	0.166 0.166 0.166	2.714 2.714 2.714	32	0.85 0.85 0.85	1 1 1	27.191 27.191 27.191	3103.11	155.16	B
T8 120.00-100.00	709.00	2760.70	A B C	0.148 0.148 0.148	2.78 2.78 2.78	31	0.85 0.85 0.85	1 1 1	26.428 26.428 26.428	2986.76	149.34	B
T9 100.00-80.00	709.00	3611.19	A B C	0.157 0.157 0.157	2.745 2.745 2.745	30	0.85 0.85 0.85	1 1 1	30.475 30.475 30.475	3120.82	156.04	B
T10 80.00-60.00	709.00	4223.58	A B C	0.157 0.157 0.157	2.747 2.747 2.747	28	0.85 0.85 0.85	1 1 1	34.326 34.326 34.326	3214.48	160.72	B
T11 60.00-40.00	709.00	4323.72	A B	0.149 0.149	2.776 2.776	26	0.85 0.85	1 1	35.510 35.510	3089.77	154.49	B

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	Project NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date 13:03:29 08/01/25
	Client The Towers, LLC	Designed by AJK

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb							ft ²	lb	plf	
T12 40.00-20.00	709.00	4425.54	C A B C	0.149 0.142 0.142 0.142	2.776 2.8 2.8 2.8	24	0.85 0.85 0.85 0.85	1 1 1 1	35.510 36.735 36.735 36.735	2861.03	143.05	B
T13 20.00-0.00	709.00	4802.70	A B C	0.145 0.145 0.145	2.79 2.79 2.79	20	0.85 0.85 0.85	1 1 1	41.460 41.460 41.460	2698.03	134.90	B
Sum Weight:	8532.27	36308.35						OTM	4322752.1 3 lb-ft	35746.33		

Tower Forces - With Ice - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb							ft ²	lb	plf	
T1 255.30-240.00	606.54	2677.61	A B C	0.383 0.383 0.383	2.098 2.098 2.098	3	1 1 1	1 1 1	29.182 29.182 29.182	196.91	12.87	C
T2 240.00-220.00	2250.83	3393.71	A B C	0.345 0.345 0.345	2.184 2.184 2.184	3	1 1 1	1 1 1	33.460 33.460 33.460	312.22	15.61	C
T3 220.00-200.00	2819.92	4229.33	A B C	0.352 0.352 0.352	2.166 2.166 2.166	3	1 1 1	1 1 1	38.375 38.375 38.375	364.86	18.24	C
T4 200.00-180.00	2838.29	4883.52	A B C	0.327 0.327 0.327	2.227 2.227 2.227	3	1 1 1	1 1 1	42.185 42.185 42.185	386.50	19.33	C
T5 180.00-160.00	2814.81	5606.46	A B C	0.31 0.31 0.31	2.27 2.27 2.27	3	1 1 1	1 1 1	47.185 47.185 47.185	407.89	20.39	C
T6 160.00-140.00	2788.81	6775.62	A B C	0.307 0.307 0.307	2.277 2.277 2.277	3	1 1 1	1 1 1	53.469 53.469 53.469	430.19	21.51	C
T7 140.00-120.00	2759.62	7045.44	A B C	0.287 0.287 0.287	2.33 2.33 2.33	3	1 1 1	1 1 1	55.857 55.857 55.857	435.40	21.77	C
T8 120.00-100.00	2726.26	6665.07	A B C	0.242 0.242 0.242	2.463 2.463 2.463	3	1 1 1	1 1 1	51.463 51.463 51.463	412.15	20.61	C
T9 100.00-80.00	2687.17	7858.63	A B C	0.244 0.244 0.244	2.457 2.457 2.457	2	1 1 1	1 1 1	57.045 57.045 57.045	421.78	21.09	C
T10 80.00-60.00	2639.68	8863.23	A B C	0.238 0.238 0.238	2.474 2.474 2.474	2	1 1 1	1 1 1	61.878 61.878 61.878	424.18	21.21	C
T11 60.00-40.00	2578.56	8975.69	A B C	0.225 0.225 0.225	2.513 2.513 2.513	2	1 1 1	1 1 1	63.451 63.451 63.451	405.50	20.28	C
T12 40.00-20.00	2490.87	8988.58	A B C	0.213 0.213 0.213	2.553 2.553 2.553	2	1 1 1	1 1 1	64.721 64.721 64.721	371.78	18.59	C
T13 20.00-0.00	2321.17	9309.75	A B	0.207 0.207	2.573 2.573	2	1 1	1 1	68.945 68.945	335.92	16.80	C

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	Project NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date 13:03:29 08/01/25
	Client The Towers, LLC	Designed by AJK

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
Sum Weight:	32322.54	85272.64	C	0.207	2.573		1	1 OTM	68.945 608878.26 lb-ft	4905.27		

Tower Forces - With Ice - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T1 255.30-240.00	606.54	2677.61	A B C	0.383 0.383 0.383	2.098 2.098 2.098	3	0.8 0.8 0.8	1 1 1	27.373 27.373 27.373	187.23	12.24	A
T2 240.00-220.00	2250.83	3393.71	A B C	0.345 0.345 0.345	2.184 2.184 2.184	3	0.8 0.8 0.8	1 1 1	31.682 31.682 31.682	302.47	15.12	A
T3 220.00-200.00	2819.92	4229.33	A B C	0.352 0.352 0.352	2.166 2.166 2.166	3	0.8 0.8 0.8	1 1 1	36.530 36.530 36.530	355.01	17.75	A
T4 200.00-180.00	2838.29	4883.52	A B C	0.327 0.327 0.327	2.227 2.227 2.227	3	0.8 0.8 0.8	1 1 1	40.124 40.124 40.124	375.43	18.77	A
T5 180.00-160.00	2814.81	5606.46	A B C	0.31 0.31 0.31	2.27 2.27 2.27	3	0.8 0.8 0.8	1 1 1	44.293 44.293 44.293	392.42	19.62	A
T6 160.00-140.00	2788.81	6775.62	A B C	0.307 0.307 0.307	2.277 2.277 2.277	3	0.8 0.8 0.8	1 1 1	50.298 50.298 50.298	413.62	20.68	A
T7 140.00-120.00	2759.62	7045.44	A B C	0.287 0.287 0.287	2.33 2.33 2.33	3	0.8 0.8 0.8	1 1 1	52.350 52.350 52.350	417.20	20.86	A
T8 120.00-100.00	2726.26	6665.07	A B C	0.242 0.242 0.242	2.463 2.463 2.463	3	0.8 0.8 0.8	1 1 1	48.072 48.072 48.072	394.20	19.71	A
T9 100.00-80.00	2687.17	7858.63	A B C	0.244 0.244 0.244	2.457 2.457 2.457	2	0.8 0.8 0.8	1 1 1	53.439 53.439 53.439	403.52	20.18	A
T10 80.00-60.00	2639.68	8863.23	A B C	0.238 0.238 0.238	2.474 2.474 2.474	2	0.8 0.8 0.8	1 1 1	57.364 57.364 57.364	402.35	20.12	A
T11 60.00-40.00	2578.56	8975.69	A B C	0.225 0.225 0.225	2.513 2.513 2.513	2	0.8 0.8 0.8	1 1 1	58.625 58.625 58.625	383.42	19.17	A
T12 40.00-20.00	2490.87	8988.58	A B C	0.213 0.213 0.213	2.553 2.553 2.553	2	0.8 0.8 0.8	1 1 1	59.578 59.578 59.578	350.32	17.52	A
T13 20.00-0.00	2321.17	9309.75	A B C	0.207 0.207 0.207	2.573 2.573 2.573	2	0.8 0.8 0.8	1 1 1	62.701 62.701 62.701	313.19	15.66	A
Sum Weight:	32322.54	85272.64						OTM	585466.60 lb-ft	4690.38		

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	Client The Towers, LLC	Designed by AJK

Tower Forces - With Ice - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb							ft ²	lb	plf	
T1 255.30-240.00	606.54	2677.61	A	0.383	2.098	3	0.85	1	27.825	186.17	12.17	B
			B	0.383	2.098		0.85	1	27.825			
			C	0.383	2.098		0.85	1	27.825			
T2 240.00-220.00	2250.83	3393.71	A	0.345	2.184	3	0.85	1	32.126	301.86	15.09	A
			B	0.345	2.184		0.85	1	32.126			
			C	0.345	2.184		0.85	1	32.126			
T3 220.00-200.00	2819.92	4229.33	A	0.352	2.166	3	0.85	1	36.991	353.32	17.67	B
			B	0.352	2.166		0.85	1	36.991			
			C	0.352	2.166		0.85	1	36.991			
T4 200.00-180.00	2838.29	4883.52	A	0.327	2.227	3	0.85	1	40.639	374.13	18.71	B
			B	0.327	2.227		0.85	1	40.639			
			C	0.327	2.227		0.85	1	40.639			
T5 180.00-160.00	2814.81	5606.46	A	0.31	2.27	3	0.85	1	45.016	392.31	19.62	B
			B	0.31	2.27		0.85	1	45.016			
			C	0.31	2.27		0.85	1	45.016			
T6 160.00-140.00	2788.81	6775.62	A	0.307	2.277	3	0.85	1	51.090	413.89	20.69	B
			B	0.307	2.277		0.85	1	51.090			
			C	0.307	2.277		0.85	1	51.090			
T7 140.00-120.00	2759.62	7045.44	A	0.287	2.33	3	0.85	1	53.227	417.99	20.90	B
			B	0.287	2.33		0.85	1	53.227			
			C	0.287	2.33		0.85	1	53.227			
T8 120.00-100.00	2726.26	6665.07	A	0.242	2.463	3	0.85	1	48.920	395.06	19.75	B
			B	0.242	2.463		0.85	1	48.920			
			C	0.242	2.463		0.85	1	48.920			
T9 100.00-80.00	2687.17	7858.63	A	0.244	2.457	2	0.85	1	54.340	404.61	20.23	B
			B	0.244	2.457		0.85	1	54.340			
			C	0.244	2.457		0.85	1	54.340			
T10 80.00-60.00	2639.68	8863.23	A	0.238	2.474	2	0.85	1	58.492	404.51	20.23	B
			B	0.238	2.474		0.85	1	58.492			
			C	0.238	2.474		0.85	1	58.492			
T11 60.00-40.00	2578.56	8975.69	A	0.225	2.513	2	0.85	1	59.831	385.86	19.29	B
			B	0.225	2.513		0.85	1	59.831			
			C	0.225	2.513		0.85	1	59.831			
T12 40.00-20.00	2490.87	8988.58	A	0.213	2.553	2	0.85	1	60.864	352.92	17.65	B
			B	0.213	2.553		0.85	1	60.864			
			C	0.213	2.553		0.85	1	60.864			
T13 20.00-0.00	2321.17	9309.75	A	0.207	2.573	2	0.85	1	64.262	316.49	15.82	B
			B	0.207	2.573		0.85	1	64.262			
			C	0.207	2.573		0.85	1	64.262			
Sum Weight:	32322.54	85272.64						OTM	585159.59 lb-ft	4699.11		

Tower Forces - Service - Wind Normal To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E	F	w	Ctrl. Face
ft	lb	lb							ft ²	lb	plf	
T1	155.10	489.04	A	0.147	2.781	12	1	1	12.480	455.33	29.76	C

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	Client The Towers, LLC	Designed by AJK

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
255.30-240.00			B	0.147	2.781		1	1	12.480			
			C	0.147	2.781		1	1	12.480			
T2	580.72	949.02	A	0.151	2.766	12	1	1	15.516	770.46	38.52	C
240.00-220.00			B	0.151	2.766		1	1	15.516			
			C	0.151	2.766		1	1	15.516			
T3	706.45	1441.29	A	0.18	2.664	12	1	1	19.827	926.09	46.30	C
220.00-200.00			B	0.18	2.664		1	1	19.827			
			C	0.18	2.664		1	1	19.827			
T4	709.00	1784.76	A	0.174	2.684	11	1	1	22.850	993.55	49.68	C
200.00-180.00			B	0.174	2.684		1	1	22.850			
			C	0.174	2.684		1	1	22.850			
T5	709.00	1997.92	A	0.169	2.702	11	1	1	27.026	1080.65	54.03	C
180.00-160.00			B	0.169	2.702		1	1	27.026			
			C	0.169	2.702		1	1	27.026			
T6	709.00	2709.25	A	0.179	2.668	11	1	1	31.114	1144.18	57.21	C
160.00-140.00			B	0.179	2.668		1	1	31.114			
			C	0.179	2.668		1	1	31.114			
T7	709.00	2789.64	A	0.166	2.714	10	1	1	32.778	1163.34	58.17	C
140.00-120.00			B	0.166	2.714		1	1	32.778			
			C	0.166	2.714		1	1	32.778			
T8	709.00	2760.70	A	0.148	2.78	10	1	1	32.175	1127.11	56.36	C
120.00-100.00			B	0.148	2.78		1	1	32.175			
			C	0.148	2.78		1	1	32.175			
T9	709.00	3611.19	A	0.157	2.745	10	1	1	35.622	1149.41	57.47	C
100.00-80.00			B	0.157	2.745		1	1	35.622			
			C	0.157	2.745		1	1	35.622			
T10	709.00	4223.58	A	0.157	2.747	9	1	1	40.367	1192.55	59.63	C
80.00-60.00			B	0.157	2.747		1	1	40.367			
			C	0.157	2.747		1	1	40.367			
T11	709.00	4323.72	A	0.149	2.776	9	1	1	42.121	1154.83	57.74	C
60.00-40.00			B	0.149	2.776		1	1	42.121			
			C	0.149	2.776		1	1	42.121			
T12	709.00	4425.54	A	0.142	2.8	8	1	1	44.049	1079.20	53.96	C
40.00-20.00			B	0.142	2.8		1	1	44.049			
			C	0.142	2.8		1	1	44.049			
T13	709.00	4802.70	A	0.145	2.79	7	1	1	50.091	1026.84	51.34	C
20.00-0.00			B	0.145	2.79		1	1	50.091			
			C	0.145	2.79		1	1	50.091			
Sum Weight:	8532.27	36308.35						OTM	1591087.4 7 lb-ft	13263.54		

Tower Forces - Service - Wind 60 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _z psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
ft	lb	lb										
T1	155.10	489.04	A	0.147	2.781	12	0.8	1	10.671	404.02	26.41	A
255.30-240.00			B	0.147	2.781		0.8	1	10.671			
			C	0.147	2.781		0.8	1	10.671			
T2	580.72	949.02	A	0.151	2.766	12	0.8	1	13.737	721.05	36.05	A
240.00-220.00			B	0.151	2.766		0.8	1	13.737			
			C	0.151	2.766		0.8	1	13.737			
T3	706.45	1441.29	A	0.18	2.664	12	0.8	1	17.982	877.68	43.88	A

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	Client The Towers, LLC	Designed by AJK

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _c psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
220.00-200.00			B	0.18	2.664		0.8	1	17.982			
			C	0.18	2.664		0.8	1	17.982			
T4	709.00	1784.76	A	0.174	2.684	11	0.8	1	20.788	940.15	47.01	A
200.00-180.00			B	0.174	2.684		0.8	1	20.788			
			C	0.174	2.684		0.8	1	20.788			
T5	709.00	1997.92	A	0.169	2.702	11	0.8	1	24.133	1007.00	50.35	A
180.00-160.00			B	0.169	2.702		0.8	1	24.133			
			C	0.169	2.702		0.8	1	24.133			
T6	709.00	2709.25	A	0.179	2.668	11	0.8	1	27.943	1066.53	53.33	A
160.00-140.00			B	0.179	2.668		0.8	1	27.943			
			C	0.179	2.668		0.8	1	27.943			
T7	709.00	2789.64	A	0.166	2.714	10	0.8	1	29.270	1078.55	53.93	A
140.00-120.00			B	0.166	2.714		0.8	1	29.270			
			C	0.166	2.714		0.8	1	29.270			
T8	709.00	2760.70	A	0.148	2.78	10	0.8	1	28.784	1046.08	52.30	A
120.00-100.00			B	0.148	2.78		0.8	1	28.784			
			C	0.148	2.78		0.8	1	28.784			
T9	709.00	3611.19	A	0.157	2.745	10	0.8	1	32.016	1067.82	53.39	A
100.00-80.00			B	0.157	2.745		0.8	1	32.016			
			C	0.157	2.745		0.8	1	32.016			
T10	709.00	4223.58	A	0.157	2.747	9	0.8	1	35.853	1095.61	54.78	A
80.00-60.00			B	0.157	2.747		0.8	1	35.853			
			C	0.157	2.747		0.8	1	35.853			
T11	709.00	4323.72	A	0.149	2.776	9	0.8	1	37.294	1057.27	52.86	A
60.00-40.00			B	0.149	2.776		0.8	1	37.294			
			C	0.149	2.776		0.8	1	37.294			
T12	709.00	4425.54	A	0.142	2.8	8	0.8	1	38.906	985.01	49.25	A
40.00-20.00			B	0.142	2.8		0.8	1	38.906			
			C	0.142	2.8		0.8	1	38.906			
T13	709.00	4802.70	A	0.145	2.79	7	0.8	1	43.847	928.23	46.41	A
20.00-0.00			B	0.145	2.79		0.8	1	43.847			
			C	0.145	2.79		0.8	1	43.847			
Sum Weight:	8532.27	36308.35						OTM	1479779.8 7 lb-ft	12275.00		

Tower Forces - Service - Wind 90 To Face

Section Elevation	Add Weight	Self Weight	F a c e	e	C _F	q _c psf	D _F	D _R	A _E ft ²	F lb	w plf	Ctrl. Face
T1	155.10	489.04	A	0.147	2.781	12	0.85	1	11.123	402.91	26.33	B
255.30-240.00			B	0.147	2.781		0.85	1	11.123			
			C	0.147	2.781		0.85	1	11.123			
T2	580.72	949.02	A	0.151	2.766	12	0.85	1	14.182	721.18	36.06	A
240.00-220.00			B	0.151	2.766		0.85	1	14.182			
			C	0.151	2.766		0.85	1	14.182			
T3	706.45	1441.29	A	0.18	2.664	12	0.85	1	18.443	873.16	43.66	B
220.00-200.00			B	0.18	2.664		0.85	1	18.443			
			C	0.18	2.664		0.85	1	18.443			
T4	709.00	1784.76	A	0.174	2.684	11	0.85	1	21.303	937.22	46.86	B
200.00-180.00			B	0.174	2.684		0.85	1	21.303			
			C	0.174	2.684		0.85	1	21.303			
T5	709.00	1997.92	A	0.169	2.702	11	0.85	1	24.856	1009.51	50.48	B

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Section Elevation <i>ft</i>	Add Weight <i>lb</i>	Self Weight <i>lb</i>	F a c e	e	C _F	q _z <i>psf</i>	D _F	D _R	A _E <i>ft²</i>	F <i>lb</i>	w <i>plf</i>	Ctrl. Face
180.00-160.00			B	0.169	2.702		0.85	1	24.856			
			C	0.169	2.702		0.85	1	24.856			
T6	709.00	2709.25	A	0.179	2.668	11	0.85	1	28.736	1070.46	53.52	B
160.00-140.00			B	0.179	2.668		0.85	1	28.736			
			C	0.179	2.668		0.85	1	28.736			
T7	709.00	2789.64	A	0.166	2.714	10	0.85	1	30.147	1084.72	54.24	B
140.00-120.00			B	0.166	2.714		0.85	1	30.147			
			C	0.166	2.714		0.85	1	30.147			
T8	709.00	2760.70	A	0.148	2.78	10	0.85	1	29.632	1051.83	52.59	B
120.00-100.00			B	0.148	2.78		0.85	1	29.632			
			C	0.148	2.78		0.85	1	29.632			
T9	709.00	3611.19	A	0.157	2.745	10	0.85	1	32.918	1074.31	53.72	B
100.00-80.00			B	0.157	2.745		0.85	1	32.918			
			C	0.157	2.745		0.85	1	32.918			
T10	709.00	4223.58	A	0.157	2.747	9	0.85	1	36.982	1106.65	55.33	B
80.00-60.00			B	0.157	2.747		0.85	1	36.982			
			C	0.157	2.747		0.85	1	36.982			
T11	709.00	4323.72	A	0.149	2.776	9	0.85	1	38.501	1069.37	53.47	B
60.00-40.00			B	0.149	2.776		0.85	1	38.501			
			C	0.149	2.776		0.85	1	38.501			
T12	709.00	4425.54	A	0.142	2.8	8	0.85	1	40.192	997.52	49.88	B
40.00-20.00			B	0.142	2.8		0.85	1	40.192			
			C	0.142	2.8		0.85	1	40.192			
T13	709.00	4802.70	A	0.145	2.79	7	0.85	1	45.408	943.33	47.17	B
20.00-0.00			B	0.145	2.79		0.85	1	45.408			
			C	0.145	2.79		0.85	1	45.408			
Sum Weight:	8532.27	36308.35						OTM	1482967.0 5 lb-ft	12342.16		

Mast Vectors - No Ice

Section No.	Section Elevation <i>ft</i>	Wind Azimuth <i>°</i>	Directionality	F <i>lb</i>	V _x <i>lb</i>	V _z <i>lb</i>	OTM _x <i>lb-ft</i>	OTM _z <i>lb-ft</i>	Torque <i>lb-ft</i>
T1	255.30-240.00	0	Wind Normal	1394.46	0.00	-1394.46	-345337.68	0.00	0.00
		30	Wind 90	1233.90	616.95	-1068.59	-264635.82	-152787.56	0.00
		60	Wind 60	1109.22	960.61	-554.61	-137348.79	-237895.08	0.00
		90	Wind 90	1105.81	1105.81	0.00	0.00	-273853.08	0.00
		120	Wind Normal	1266.37	1096.71	633.18	156807.82	-271599.11	0.00
		150	Wind 90	1233.90	616.95	1068.59	264635.82	-152787.56	0.00
		180	Wind 60	1237.31	0.00	1237.31	306419.61	0.00	0.00
		210	Wind 90	1233.90	-616.95	1068.59	264635.82	152787.56	0.00
		240	Wind Normal	1266.37	-1096.71	633.18	156807.82	271599.11	0.00
		270	Wind 90	1105.81	-1105.81	0.00	0.00	273853.08	0.00
		300	Wind 60	1109.22	-960.61	-554.61	-137348.79	237895.08	0.00
		330	Wind 90	1233.90	-616.95	-1068.59	-264635.82	152787.56	0.00
T2	240.00-220.00	0	Wind Normal	2359.54	0.00	-2359.54	-542693.95	0.00	0.00
		30	Wind 90	2208.62	1104.31	-1912.72	-439926.06	-253991.43	0.00
		60	Wind 60	2047.68	1773.35	-1023.84	-235483.71	-407869.76	0.00
		90	Wind 90	1999.83	1999.83	0.00	0.00	-459961.52	0.00
		120	Wind Normal	2150.75	1862.60	1075.38	247336.31	-428399.05	0.00
		150	Wind 90	2160.36	1080.18	1870.92	430312.20	-248440.86	0.00
		180	Wind 60	2208.21	0.00	2208.21	507887.63	0.00	0.00
		210	Wind 90	2208.62	-1104.31	1912.72	439926.06	253991.43	0.00

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	Client The Towers, LLC	Designed by AJK

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T3	220.00-200.00	240	Wind Normal	2199.02	-1904.40	1099.51	252886.87	438012.91	0.00
		270	Wind 90	1999.83	-1999.83	0.00	0.00	459961.52	0.00
		300	Wind 60	1999.42	-1731.55	-999.71	-229933.15	398255.90	0.00
		330	Wind 90	2160.36	-1080.18	-1870.92	-430312.20	248440.86	0.00
		0	Wind Normal	2730.50	0.00	-2730.50	-573404.49	0.00	0.00
		30	Wind 90	2568.39	1284.19	-2224.29	-467101.07	-269680.93	0.00
		60	Wind 60	2429.50	2104.01	-1214.75	-255097.18	-441841.27	0.00
		90	Wind 90	2415.65	2415.65	0.00	0.00	-507285.93	0.00
		120	Wind Normal	2577.76	2232.40	1288.88	270664.28	-468804.28	0.00
		150	Wind 90	2568.39	1284.19	2224.29	467101.07	-269680.93	0.00
		180	Wind 60	2582.24	0.00	2582.24	542270.29	0.00	0.00
		210	Wind 90	2568.39	-1284.19	2224.29	467101.07	269680.93	0.00
T4	200.00-180.00	240	Wind Normal	2577.76	-2232.40	1288.88	270664.28	468804.28	0.00
		270	Wind 90	2415.65	-2415.65	0.00	0.00	507285.93	0.00
		300	Wind 60	2429.50	-2104.01	-1214.75	-255097.18	441841.27	0.00
		330	Wind 90	2568.39	-1284.19	-2224.29	-467101.07	269680.93	0.00
		0	Wind Normal	2855.87	0.00	-2855.87	-542614.68	0.00	0.00
		30	Wind 90	2683.38	1341.69	-2323.88	-441536.53	-254921.24	0.00
		60	Wind 60	2542.80	2202.13	-1271.40	-241565.87	-418404.36	0.00
		90	Wind 90	2533.82	2533.82	0.00	0.00	-481426.48	0.00
		120	Wind Normal	2706.31	2343.73	1353.15	257099.34	-445309.12	0.00
		150	Wind 90	2683.38	1341.69	2323.88	441536.53	-254921.24	0.00
		180	Wind 60	2692.36	0.00	2692.36	511547.74	0.00	0.00
		210	Wind 90	2683.38	-1341.69	2323.88	441536.53	254921.24	0.00
T5	180.00-160.00	240	Wind Normal	2706.31	-2343.73	1353.15	257099.34	445309.12	0.00
		270	Wind 90	2533.82	-2533.82	0.00	0.00	481426.48	0.00
		300	Wind 60	2542.80	-2202.13	-1271.40	-241565.87	418404.36	0.00
		330	Wind 90	2683.38	-1341.69	-2323.88	-441536.53	254921.24	0.00
		0	Wind Normal	3125.28	0.00	-3125.28	-531298.13	0.00	0.00
		30	Wind 90	2907.41	1453.71	-2517.89	-428042.13	-247130.24	0.00
		60	Wind 60	2753.63	2384.71	-1376.81	-234058.29	-405400.85	0.00
		90	Wind 90	2761.32	2761.32	0.00	0.00	-469424.06	0.00
		120	Wind Normal	2979.19	2580.05	1489.59	253230.86	-438608.71	0.00
		150	Wind 90	2907.41	1453.71	2517.89	428042.13	-247130.24	0.00
		180	Wind 60	2899.72	0.00	2899.72	492953.00	0.00	0.00
		210	Wind 90	2907.41	-1453.71	2517.89	428042.13	247130.24	0.00
T6	160.00-140.00	240	Wind Normal	2979.19	-2580.05	1489.59	253230.86	438608.71	0.00
		270	Wind 90	2761.32	-2761.32	0.00	0.00	469424.06	0.00
		300	Wind 60	2753.63	-2384.71	-1376.81	-234058.29	405400.85	0.00
		330	Wind 90	2907.41	-1453.71	-2517.89	-428042.13	247130.24	0.00
		0	Wind Normal	3296.41	0.00	-3296.41	-494461.61	0.00	0.00
		30	Wind 90	3070.63	1535.32	-2659.24	-398886.59	-230297.28	0.00
		60	Wind 60	2916.32	2525.60	-1458.16	-218723.72	-378840.60	0.00
		90	Wind 90	2928.33	2928.33	0.00	0.00	-439249.99	0.00
		120	Wind Normal	3154.11	2731.54	1577.06	236558.52	-409731.37	0.00
		150	Wind 90	3070.63	1535.32	2659.24	398886.59	-230297.28	0.00
		180	Wind 60	3058.61	0.00	3058.61	458792.02	0.00	0.00
		210	Wind 90	3070.63	-1535.32	2659.24	398886.59	230297.28	0.00
T7	140.00-120.00	240	Wind Normal	3154.11	-2731.54	1577.06	236558.52	409731.37	0.00
		270	Wind 90	2928.33	-2928.33	0.00	0.00	439249.99	0.00
		300	Wind 60	2916.32	-2525.60	-1458.16	-218723.72	378840.60	0.00
		330	Wind 90	3070.63	-1535.32	-2659.24	-398886.59	230297.28	0.00
		0	Wind Normal	3343.88	0.00	-3343.88	-434703.75	0.00	0.00
		30	Wind 90	3103.11	1551.56	-2687.37	-349358.42	-201702.18	0.00
		60	Wind 60	2946.15	2551.44	-1473.07	-191499.60	-331687.03	0.00
		90	Wind 90	2965.04	2965.04	0.00	0.00	-385454.71	0.00
		120	Wind Normal	3205.80	2776.30	1602.90	208377.06	-360919.65	0.00
		150	Wind 90	3103.11	1551.56	2687.37	349358.42	-201702.18	0.00
		180	Wind 60	3084.22	0.00	3084.22	400948.84	0.00	0.00
		210	Wind 90	3103.11	-1551.56	2687.37	349358.42	201702.18	0.00
		240	Wind Normal	3205.80	-2776.30	1602.90	208377.06	360919.65	0.00

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	Project	NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date	13:03:29 08/01/25
	Client	The Towers, LLC	Designed by	AJK

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T8	120.00-100.00	270	Wind 90	2965.04	-2965.04	0.00	0.00	385454.71	0.00
		300	Wind 60	2946.15	-2551.44	-1473.07	-191499.60	331687.03	0.00
		330	Wind 90	3103.11	-1551.56	-2687.37	-349358.42	201702.18	0.00
		0	Wind Normal	3217.32	0.00	-3217.32	-353905.67	0.00	0.00
		30	Wind 90	2986.76	1493.38	-2586.61	-284526.94	-164271.71	0.00
		60	Wind 60	2835.85	2455.91	-1417.92	-155971.53	-270150.61	0.00
		90	Wind 90	2853.46	2853.46	0.00	0.00	-313880.13	0.00
		120	Wind Normal	3084.02	2670.84	1542.01	169621.19	-293792.53	0.00
		150	Wind 90	2986.76	1493.38	2586.61	284526.94	-164271.71	0.00
		180	Wind 60	2969.15	0.00	2969.15	326606.34	0.00	0.00
		210	Wind 90	2986.76	-1493.38	2586.61	284526.94	164271.71	0.00
		240	Wind Normal	3084.02	-2670.84	1542.01	169621.19	293792.53	0.00
T9	100.00-80.00	270	Wind 90	2853.46	-2853.46	0.00	0.00	313880.13	0.00
		300	Wind 60	2835.85	-2455.91	-1417.92	-155971.53	270150.61	0.00
		330	Wind 90	2986.76	-1493.38	-2586.61	-284526.94	164271.71	0.00
		0	Wind Normal	3350.83	0.00	-3350.83	-301574.89	0.00	0.00
		30	Wind 90	3120.82	1560.41	-2702.71	-243243.50	-140436.70	0.00
		60	Wind 60	2973.15	2574.82	-1486.57	-133791.74	-231734.10	0.00
		90	Wind 90	2993.03	2993.03	0.00	0.00	-269372.45	0.00
		120	Wind Normal	3223.04	2791.24	1611.52	145036.97	-251211.40	0.00
		150	Wind 90	3120.82	1560.41	2702.71	243243.50	-140436.70	0.00
		180	Wind 60	3100.94	0.00	3100.94	279084.43	0.00	0.00
		210	Wind 90	3120.82	-1560.41	2702.71	243243.50	140436.70	0.00
		240	Wind Normal	3223.04	-2791.24	1611.52	145036.97	251211.40	0.00
T10	80.00-60.00	270	Wind 90	2993.03	-2993.03	0.00	0.00	269372.45	0.00
		300	Wind 60	2973.15	-2574.82	-1486.57	-133791.74	231734.10	0.00
		330	Wind 90	3120.82	-1560.41	-2702.71	-243243.50	140436.70	0.00
		0	Wind Normal	3477.55	0.00	-3477.55	-243428.49	0.00	0.00
		30	Wind 90	3214.48	1607.24	-2783.82	-194867.74	-112506.94	0.00
		60	Wind 60	3059.46	2649.57	-1529.73	-107081.11	-185469.93	0.00
		90	Wind 90	3093.28	3093.28	0.00	0.00	-216529.67	0.00
		120	Wind Normal	3356.35	2906.68	1678.17	117472.14	-203467.71	0.00
		150	Wind 90	3214.48	1607.24	2783.82	194867.74	-112506.94	0.00
		180	Wind 60	3180.66	0.00	3180.66	222646.44	0.00	0.00
		210	Wind 90	3214.48	-1607.24	2783.82	194867.74	112506.94	0.00
		240	Wind Normal	3356.35	-2906.68	1678.17	117472.14	203467.71	0.00
T11	60.00-40.00	270	Wind 90	3093.28	-3093.28	0.00	0.00	216529.67	0.00
		300	Wind 60	3059.46	-2649.57	-1529.73	-107081.11	185469.93	0.00
		330	Wind 90	3214.48	-1607.24	-2783.82	-194867.74	112506.94	0.00
		0	Wind Normal	3351.50	0.00	-3351.50	-167574.85	0.00	0.00
		30	Wind 90	3089.77	1544.89	-2675.82	-133791.07	-77244.31	0.00
		60	Wind 60	2939.80	2545.94	-1469.90	-73495.01	-127297.10	0.00
		90	Wind 90	2976.86	2976.86	0.00	0.00	-148842.89	0.00
		120	Wind Normal	3238.58	2804.69	1619.29	80964.56	-140234.74	0.00
		150	Wind 90	3089.77	1544.89	2675.82	133791.07	-77244.31	0.00
		180	Wind 60	3052.72	0.00	3052.72	152635.75	0.00	0.00
		210	Wind 90	3089.77	-1544.89	2675.82	133791.07	77244.31	0.00
		240	Wind Normal	3238.58	-2804.69	1619.29	80964.56	140234.74	0.00
T12	40.00-20.00	270	Wind 90	2976.86	-2976.86	0.00	0.00	148842.89	0.00
		300	Wind 60	2939.80	-2545.94	-1469.90	-73495.01	127297.10	0.00
		330	Wind 90	3089.77	-1544.89	-2675.82	-133791.07	77244.31	0.00
		0	Wind Normal	3111.17	0.00	-3111.17	-93335.22	0.00	0.00
		30	Wind 90	2861.03	1430.51	-2477.72	-74331.71	-42915.43	0.00
		60	Wind 60	2721.31	2356.73	-1360.66	-40819.70	-70701.79	0.00
		90	Wind 90	2759.63	2759.63	0.00	0.00	-82788.82	0.00
		120	Wind Normal	3009.77	2606.54	1504.89	45146.59	-78196.18	0.00
		150	Wind 90	2861.03	1430.51	2477.72	74331.71	-42915.43	0.00
		180	Wind 60	2822.71	0.00	2822.71	84681.44	0.00	0.00
		210	Wind 90	2861.03	-1430.51	2477.72	74331.71	42915.43	0.00
		240	Wind Normal	3009.77	-2606.54	1504.89	45146.59	78196.18	0.00
		270	Wind 90	2759.63	-2759.63	0.00	0.00	82788.82	0.00

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	Client	The Towers, LLC	Designed by	AJK

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T13	20.00-0.00	300	Wind 60	2721.31	-2356.73	-1360.66	-40819.70	70701.79	0.00
		330	Wind 90	2861.03	-1430.51	-2477.72	-74331.71	42915.43	0.00
		0	Wind Normal	2953.75	0.00	-2953.75	-29537.49	0.00	0.00
		30	Wind 90	2698.03	1349.01	-2336.56	-23365.59	-13490.13	0.00
		60	Wind 60	2564.04	2220.52	-1282.02	-12820.18	-22205.20	0.00
		90	Wind 90	2610.28	2610.28	0.00	0.00	-26102.77	0.00
		120	Wind Normal	2866.00	2482.03	1433.00	14330.00	-24820.29	0.00
		150	Wind 90	2698.03	1349.01	2336.56	23365.59	-13490.13	0.00
		180	Wind 60	2651.78	0.00	2651.78	26517.84	0.00	0.00
		210	Wind 90	2698.03	-1349.01	2336.56	23365.59	13490.13	0.00
		240	Wind Normal	2866.00	-2482.03	1433.00	14330.00	24820.29	0.00
		270	Wind 90	2610.28	-2610.28	0.00	0.00	26102.77	0.00
		300	Wind 60	2564.04	-2220.52	-1282.02	-12820.18	22205.20	0.00
		330	Wind 90	2698.03	-1349.01	-2336.56	-23365.59	13490.13	0.00

Mast Totals - No Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-38568.06	-4653870.90	0.00	0.00
30	17873.17	-30957.23	-3743613.16	-2161376.06	0.00
60	29305.34	-16919.45	-2037756.44	-3529497.68	0.00
90	33996.32	0.00	0.00	-4074172.51	0.00
120	31885.37	18409.02	2202645.64	-3815094.16	0.00
150	17849.03	30915.43	3733999.30	-2155825.50	0.00
180	0.00	35540.64	4312991.37	0.00	0.00
210	-17873.17	30957.23	3743613.16	2161376.06	0.00
240	-31927.17	18433.16	2208196.20	3824708.01	0.00
270	-33996.32	0.00	0.00	4074172.51	0.00
300	-29263.54	-16895.31	-2032205.87	3519883.82	0.00
330	-17849.03	-30915.43	-3733999.30	2155825.50	0.00

Mast Vectors - With Ice

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T1	255.30-240.00	0	Wind Normal	196.91	0.00	-196.91	-48765.37	0.00	0.00
		30	Wind 90	186.17	93.08	-161.23	-39927.64	-23052.24	0.00
		60	Wind 60	176.78	153.09	-88.39	-21889.43	-37913.61	0.00
		90	Wind 90	175.71	175.71	0.00	0.00	-43514.92	0.00
		120	Wind Normal	186.46	161.48	93.23	23087.91	-39989.43	0.00
		150	Wind 90	186.17	93.08	161.23	39927.64	-23052.24	0.00
		180	Wind 60	187.23	0.00	187.23	46368.42	0.00	0.00
		210	Wind 90	186.17	-93.08	161.23	39927.64	23052.24	0.00
		240	Wind Normal	186.46	-161.48	93.23	23087.91	39989.43	0.00
		270	Wind 90	175.71	-175.71	0.00	0.00	43514.92	0.00
		300	Wind 60	176.78	-153.09	-88.39	-21889.43	37913.61	0.00
		330	Wind 90	186.17	-93.08	-161.23	-39927.64	23052.24	0.00
T2	240.00-220.00	0	Wind Normal	312.22	0.00	-312.22	-71811.74	0.00	0.00
		30	Wind 90	301.86	150.93	-261.41	-60125.36	-34713.39	0.00

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	Project NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date 13:03:29 08/01/25
	Client The Towers, LLC	Designed by AJK

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T3	220.00-200.00	60	Wind 60	289.37	250.60	-144.68	-33277.32	-57638.02	0.00
		90	Wind 90	284.81	284.81	0.00	0.00	-65506.67	0.00
		120	Wind Normal	295.18	255.63	147.59	33945.82	-58795.88	0.00
		150	Wind 90	297.92	148.96	258.00	59340.55	-34260.28	0.00
		180	Wind 60	302.47	0.00	302.47	69568.54	0.00	0.00
		210	Wind 90	301.86	-150.93	261.41	60125.36	34713.39	0.00
		240	Wind Normal	299.12	-259.05	149.56	34398.92	59580.68	0.00
		270	Wind 90	284.81	-284.81	0.00	0.00	65506.67	0.00
		300	Wind 60	285.43	-247.19	-142.71	-32824.22	56853.21	0.00
		330	Wind 90	297.92	-148.96	-258.00	-59340.55	34260.28	0.00
		0	Wind Normal	364.86	0.00	-364.86	-76619.61	0.00	0.00
		30	Wind 90	353.32	176.66	-305.98	-64256.28	-37098.38	0.00
		60	Wind 60	342.55	296.65	-171.27	-35967.23	-62297.06	0.00
		90	Wind 90	340.85	340.85	0.00	0.00	-71578.31	0.00
		120	Wind Normal	352.39	305.18	176.19	37000.58	-64086.89	0.00
		150	Wind 90	353.32	176.66	305.98	64256.28	-37098.38	0.00
T4	200.00-180.00	180	Wind 60	355.01	0.00	355.01	74552.89	0.00	0.00
		210	Wind 90	353.32	-176.66	305.98	64256.28	37098.38	0.00
		240	Wind Normal	352.39	-305.18	176.19	37000.58	64086.89	0.00
		270	Wind 90	340.85	-340.85	0.00	0.00	71578.31	0.00
		300	Wind 60	342.55	-296.65	-171.27	-35967.23	62297.06	0.00
		330	Wind 90	353.32	-176.66	-305.98	-64256.28	37098.38	0.00
		0	Wind Normal	386.50	0.00	-386.50	-73435.11	0.00	0.00
		30	Wind 90	374.13	187.06	-324.00	-61560.46	-35541.95	0.00
		60	Wind 60	363.22	314.56	-181.61	-34505.73	-59765.67	0.00
		90	Wind 90	361.92	361.92	0.00	0.00	-68764.22	0.00
		120	Wind Normal	374.29	324.15	187.15	35557.72	-61587.78	0.00
		150	Wind 90	374.13	187.06	324.00	61560.46	-35541.95	0.00
		180	Wind 60	375.43	0.00	375.43	71331.13	0.00	0.00
		210	Wind 90	374.13	-187.06	324.00	61560.46	35541.95	0.00
		240	Wind Normal	374.29	-324.15	187.15	35557.72	61587.78	0.00
		270	Wind 90	361.92	-361.92	0.00	0.00	68764.22	0.00
T5	180.00-160.00	300	Wind 60	363.22	-314.56	-181.61	-34505.73	59765.67	0.00
		330	Wind 90	374.13	-187.06	-324.00	-61560.46	35541.95	0.00
		0	Wind Normal	407.89	0.00	-407.89	-69340.59	0.00	0.00
		30	Wind 90	392.31	196.15	-339.75	-57757.54	-33346.33	0.00
		60	Wind 60	380.49	329.52	-190.25	-32341.83	-56017.69	0.00
		90	Wind 90	380.38	380.38	0.00	0.00	-64665.21	0.00
		120	Wind Normal	395.96	342.91	197.98	33656.56	-58294.88	0.00
		150	Wind 90	392.31	196.15	339.75	57757.54	-33346.33	0.00
		180	Wind 60	392.42	0.00	392.42	66711.12	0.00	0.00
		210	Wind 90	392.31	-196.15	339.75	57757.54	33346.33	0.00
		240	Wind Normal	395.96	-342.91	197.98	33656.56	58294.88	0.00
		270	Wind 90	380.38	-380.38	0.00	0.00	64665.21	0.00
		300	Wind 60	380.49	-329.52	-190.25	-32341.83	56017.69	0.00
		330	Wind 90	392.31	-196.15	-339.75	-57757.54	33346.33	0.00
		0	Wind Normal	430.19	0.00	-430.19	-64527.97	0.00	0.00
T6	160.00-140.00	30	Wind 90	413.89	206.94	-358.44	-53765.71	-31041.65	0.00
		60	Wind 60	402.00	348.14	-201.00	-30150.20	-52221.68	0.00
		90	Wind 90	402.27	402.27	0.00	0.00	-60340.89	0.00
		120	Wind Normal	418.57	362.49	209.29	31392.78	-54373.88	0.00
		150	Wind 90	413.89	206.94	358.44	53765.71	-31041.65	0.00
		180	Wind 60	413.62	0.00	413.62	62042.82	0.00	0.00
		210	Wind 90	413.89	-206.94	358.44	53765.71	31041.65	0.00
		240	Wind Normal	418.57	-362.49	209.29	31392.78	54373.88	0.00
		270	Wind 90	402.27	-402.27	0.00	0.00	60340.89	0.00
		300	Wind 60	402.00	-348.14	-201.00	-30150.20	52221.68	0.00
		330	Wind 90	413.89	-206.94	-358.44	-53765.71	31041.65	0.00
		0	Wind Normal	435.40	0.00	-435.40	-56601.78	0.00	0.00
		30	Wind 90	417.99	209.00	-361.99	-47059.12	-27169.59	0.00
		60	Wind 60	405.93	351.55	-202.97	-26385.48	-45700.98	0.00
T7	140.00-120.00								

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	Project	NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date	13:03:29 08/01/25
	Client	The Towers, LLC	Designed by	AJK

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T8	120.00-100.00	90	Wind 90	406.72	406.72	0.00	0.00	-52873.91	0.00
		120	Wind Normal	424.13	367.30	212.06	27568.25	-47749.61	0.00
		150	Wind 90	417.99	209.00	361.99	47059.12	-27169.59	0.00
		180	Wind 60	417.20	0.00	417.20	54236.23	0.00	0.00
		210	Wind 90	417.99	-209.00	361.99	47059.12	27169.59	0.00
		240	Wind Normal	424.13	-367.30	212.06	27568.25	47749.61	0.00
		270	Wind 90	406.72	-406.72	0.00	0.00	52873.91	0.00
		300	Wind 60	405.93	-351.55	-202.97	-26385.48	45700.98	0.00
		330	Wind 90	417.99	-209.00	-361.99	-47059.12	27169.59	0.00
		0	Wind Normal	412.15	0.00	-412.15	-45336.18	0.00	0.00
		30	Wind 90	395.06	197.53	-342.13	-37634.33	-21728.19	0.00
		60	Wind 60	383.32	331.96	-191.66	-21082.39	-36515.77	0.00
T9	100.00-80.00	90	Wind 90	384.18	384.18	0.00	0.00	-42259.38	0.00
		120	Wind Normal	401.27	347.51	200.63	22069.59	-38225.65	0.00
		150	Wind 90	395.06	197.53	342.13	37634.33	-21728.19	0.00
		180	Wind 60	394.20	0.00	394.20	43361.78	0.00	0.00
		210	Wind 90	395.06	-197.53	342.13	37634.33	21728.19	0.00
		240	Wind Normal	401.27	-347.51	200.63	22069.59	38225.65	0.00
		270	Wind 90	384.18	-384.18	0.00	0.00	42259.38	0.00
		300	Wind 60	383.32	-331.96	-191.66	-21082.39	36515.77	0.00
		330	Wind 90	395.06	-197.53	-342.13	-37634.33	21728.19	0.00
		0	Wind Normal	421.78	0.00	-421.78	-37959.77	0.00	0.00
		30	Wind 90	404.61	202.30	-350.40	-31535.95	-18207.29	0.00
		60	Wind 60	393.09	340.42	-196.54	-17688.97	-30638.19	0.00
T10	80.00-60.00	90	Wind 90	394.17	394.17	0.00	0.00	-35475.73	0.00
		120	Wind Normal	411.34	356.23	205.67	18510.46	-32061.05	0.00
		150	Wind 90	404.61	202.30	350.40	31535.95	-18207.29	0.00
		180	Wind 60	403.52	0.00	403.52	36316.79	0.00	0.00
		210	Wind 90	404.61	-202.30	350.40	31535.95	18207.29	0.00
		240	Wind Normal	411.34	-356.23	205.67	18510.46	32061.05	0.00
		270	Wind 90	394.17	-394.17	0.00	0.00	35475.73	0.00
		300	Wind 60	393.09	-340.42	-196.54	-17688.97	30638.19	0.00
		330	Wind 90	404.61	-202.30	-350.40	-31535.95	18207.29	0.00
		0	Wind Normal	424.18	0.00	-424.18	-29692.35	0.00	0.00
		30	Wind 90	404.51	202.26	-350.32	-24522.15	-14157.87	0.00
		60	Wind 60	392.46	339.88	-196.23	-13736.05	-23791.54	0.00
T11	60.00-40.00	90	Wind 90	394.62	394.62	0.00	0.00	-27623.15	0.00
		120	Wind Normal	414.28	358.78	207.14	14499.88	-25114.53	0.00
		150	Wind 90	404.51	202.26	350.32	24522.15	-14157.87	0.00
		180	Wind 60	402.35	0.00	402.35	28164.69	0.00	0.00
		210	Wind 90	404.51	-202.26	350.32	24522.15	14157.87	0.00
		240	Wind Normal	414.28	-358.78	207.14	14499.88	25114.53	0.00
		270	Wind 90	394.62	-394.62	0.00	0.00	27623.15	0.00
		300	Wind 60	392.46	-339.88	-196.23	-13736.05	23791.54	0.00
		330	Wind 90	404.51	-202.26	-350.32	-24522.15	14157.87	0.00
		0	Wind Normal	405.50	0.00	-405.50	-20275.11	0.00	0.00
		30	Wind 90	385.86	192.93	-334.17	-16708.43	-9646.62	0.00
		60	Wind 60	374.20	324.07	-187.10	-9354.95	-16203.25	0.00
T12	40.00-20.00	90	Wind 90	376.65	376.65	0.00	0.00	-18832.36	0.00
		120	Wind Normal	396.28	343.19	198.14	9907.12	-17159.63	0.00
		150	Wind 90	385.86	192.93	334.17	16708.43	-9646.62	0.00
		180	Wind 60	383.42	0.00	383.42	19170.78	0.00	0.00
		210	Wind 90	385.86	-192.93	334.17	16708.43	9646.62	0.00
		240	Wind Normal	396.28	-343.19	198.14	9907.12	17159.63	0.00
		270	Wind 90	376.65	-376.65	0.00	0.00	18832.36	0.00
		300	Wind 60	374.20	-324.07	-187.10	-9354.95	16203.25	0.00
		330	Wind 90	385.86	-192.93	-334.17	-16708.43	9646.62	0.00
		0	Wind Normal	371.78	0.00	-371.78	-11153.49	0.00	0.00
		30	Wind 90	352.92	176.46	-305.64	-9169.23	-5293.86	0.00
		60	Wind 60	342.04	296.21	-171.02	-5130.58	-8886.43	0.00
		90	Wind 90	344.65	344.65	0.00	0.00	-10339.39	0.00

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	Project	NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date	13:03:29 08/01/25
	Client	The Towers, LLC	Designed by	AJK

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T13	20.00-0.00	120	Wind Normal	363.51	314.80	181.75	5452.58	-9444.14	0.00
		150	Wind 90	352.92	176.46	305.64	9169.23	-5293.86	0.00
		180	Wind 60	350.32	0.00	350.32	10509.50	0.00	0.00
		210	Wind 90	352.92	-176.46	305.64	9169.23	5293.86	0.00
		240	Wind Normal	363.51	-314.80	181.75	5452.58	9444.14	0.00
		270	Wind 90	344.65	-344.65	0.00	0.00	10339.39	0.00
		300	Wind 60	342.04	-296.21	-171.02	-5130.58	8886.43	0.00
		330	Wind 90	352.92	-176.46	-305.64	-9169.23	5293.86	0.00
		0	Wind Normal	335.92	0.00	-335.92	-3359.20	0.00	0.00
		30	Wind 90	316.49	158.24	-274.09	-2740.85	-1582.43	0.00
		60	Wind 60	306.03	265.03	-153.01	-1530.14	-2650.29	0.00
		90	Wind 90	309.32	309.32	0.00	0.00	-3093.23	0.00
		120	Wind Normal	328.76	284.71	164.38	1643.79	-2847.12	0.00
		150	Wind 90	316.49	158.24	274.09	2740.85	-1582.43	0.00
		180	Wind 60	313.19	0.00	313.19	3131.92	0.00	0.00
		210	Wind 90	316.49	-158.24	274.09	2740.85	1582.43	0.00
		240	Wind Normal	328.76	-284.71	164.38	1643.79	2847.12	0.00
		270	Wind 90	309.32	-309.32	0.00	0.00	3093.23	0.00
		300	Wind 60	306.03	-265.03	-153.01	-1530.14	2650.29	0.00
		330	Wind 90	316.49	-158.24	-274.09	-2740.85	1582.43	0.00

Mast Totals - With Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-4905.27	-608878.26	0.00	0.00
30	2349.55	-4069.55	-506763.07	-292579.79	0.00
60	3941.68	-2275.73	-283040.30	-490240.18	0.00
90	4556.25	0.00	0.00	-564867.38	0.00
120	4124.37	2381.21	294293.02	-509730.47	0.00
150	2347.58	4066.14	505978.26	-292126.69	0.00
180	0.00	4690.38	585466.60	0.00	0.00
210	-2349.55	4069.55	506763.07	292579.79	0.00
240	-4127.78	2383.18	294746.13	510515.27	0.00
270	-4556.25	0.00	0.00	564867.38	0.00
300	-3938.27	-2273.76	-282587.19	489455.38	0.00
330	-2347.58	-4066.14	-505978.26	292126.69	0.00

Mast Vectors - Service

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T1	255.30-240.00	0	Wind Normal	455.33	0.00	-455.33	-112763.32	0.00	0.00
		30	Wind 90	402.91	201.45	-348.93	-86411.69	-49889.82	0.00
		60	Wind 60	362.19	313.67	-181.10	-44848.58	-77680.03	0.00
		90	Wind 90	361.08	361.08	0.00	0.00	-89421.42	0.00
		120	Wind Normal	413.51	358.11	206.75	51202.55	-88685.42	0.00
		150	Wind 90	402.91	201.45	348.93	86411.69	-49889.82	0.00
		180	Wind 60	404.02	0.00	404.02	100055.38	0.00	0.00
		210	Wind 90	402.91	-201.45	348.93	86411.69	49889.82	0.00

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	Client	The Towers, LLC	Designed by	AJK

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T2	240.00-220.00	240	Wind Normal	413.51	-358.11	206.75	51202.55	88685.42	0.00
		270	Wind 90	361.08	-361.08	0.00	0.00	89421.42	0.00
		300	Wind 60	362.19	-313.67	-181.10	-44848.58	77680.03	0.00
		330	Wind 90	402.91	-201.45	-348.93	-86411.69	49889.82	0.00
		0	Wind Normal	770.46	0.00	-770.46	-177206.19	0.00	0.00
		30	Wind 90	721.18	360.59	-624.56	-143649.32	-82935.98	0.00
		60	Wind 60	668.63	579.05	-334.32	-76892.64	-133181.96	0.00
		90	Wind 90	653.01	653.01	0.00	0.00	-150191.52	0.00
		120	Wind Normal	702.29	608.20	351.14	80762.88	-139885.41	0.00
		150	Wind 90	705.42	352.71	610.91	140510.10	-81123.55	0.00
		180	Wind 60	721.05	0.00	721.05	165840.86	0.00	0.00
		210	Wind 90	721.18	-360.59	624.56	143649.32	82935.98	0.00
T3	220.00-200.00	240	Wind Normal	718.05	-621.85	359.02	82575.31	143024.62	0.00
		270	Wind 90	653.01	-653.01	0.00	0.00	150191.52	0.00
		300	Wind 60	652.87	-565.40	-326.44	-75080.21	130042.74	0.00
		330	Wind 90	705.42	-352.71	-610.91	-140510.10	81123.55	0.00
		0	Wind Normal	926.09	0.00	-926.09	-194478.57	0.00	0.00
		30	Wind 90	873.16	436.58	-756.17	-158796.67	-91681.30	0.00
		60	Wind 60	827.80	716.90	-413.90	-86919.26	-150548.58	0.00
		90	Wind 90	823.28	823.28	0.00	0.00	-172888.83	0.00
		120	Wind Normal	876.21	758.82	438.11	92002.40	-159352.82	0.00
		150	Wind 90	873.16	436.58	756.17	158796.67	-91681.30	0.00
		180	Wind 60	877.68	0.00	877.68	184312.30	0.00	0.00
		210	Wind 90	873.16	-436.58	756.17	158796.67	91681.30	0.00
T4	200.00-180.00	240	Wind Normal	876.21	-758.82	438.11	92002.40	159352.82	0.00
		270	Wind 90	823.28	-823.28	0.00	0.00	172888.83	0.00
		300	Wind 60	827.80	-716.90	-413.90	-86919.26	150548.58	0.00
		330	Wind 90	873.16	-436.58	-756.17	-158796.67	91681.30	0.00
		0	Wind Normal	993.55	0.00	-993.55	-188773.66	0.00	0.00
		30	Wind 90	937.22	468.61	-811.66	-154215.34	-89036.27	0.00
		60	Wind 60	891.32	771.91	-445.66	-84675.33	-146661.97	0.00
		90	Wind 90	888.39	888.39	0.00	0.00	-168793.84	0.00
		120	Wind Normal	944.71	818.14	472.36	89747.48	-155447.20	0.00
		150	Wind 90	937.22	468.61	811.66	154215.34	-89036.27	0.00
		180	Wind 60	940.15	0.00	940.15	178629.35	0.00	0.00
		210	Wind 90	937.22	-468.61	811.66	154215.34	89036.27	0.00
T5	180.00-160.00	240	Wind Normal	944.71	-818.14	472.36	89747.48	155447.20	0.00
		270	Wind 90	888.39	-888.39	0.00	0.00	168793.84	0.00
		300	Wind 60	891.32	-771.91	-445.66	-84675.33	146661.97	0.00
		330	Wind 90	937.22	-468.61	-811.66	-154215.34	89036.27	0.00
		0	Wind Normal	1080.65	0.00	-1080.65	-183710.52	0.00	0.00
		30	Wind 90	1009.51	504.75	-874.26	-148624.33	-85808.30	0.00
		60	Wind 60	959.29	830.77	-479.65	-81539.91	-141231.26	0.00
		90	Wind 90	961.80	961.80	0.00	0.00	-163506.75	0.00
		120	Wind Normal	1032.95	894.56	516.47	87800.34	-152074.64	0.00
		150	Wind 90	1009.51	504.75	874.26	148624.33	-85808.30	0.00
		180	Wind 60	1007.00	0.00	1007.00	171189.66	0.00	0.00
		210	Wind 90	1009.51	-504.75	874.26	148624.33	85808.30	0.00
T6	160.00-140.00	240	Wind Normal	1032.95	-894.56	516.47	87800.34	152074.64	0.00
		270	Wind 90	961.80	-961.80	0.00	0.00	163506.75	0.00
		300	Wind 60	959.29	-830.77	-479.65	-81539.91	141231.26	0.00
		330	Wind 90	1009.51	-504.75	-874.26	-148624.33	85808.30	0.00
		0	Wind Normal	1144.18	0.00	-1144.18	-171627.24	0.00	0.00
		30	Wind 90	1070.46	535.23	-927.04	-139056.50	-80284.31	0.00
		60	Wind 60	1020.07	883.41	-510.03	-76505.19	-132510.87	0.00
		90	Wind 90	1023.99	1023.99	0.00	0.00	-153598.96	0.00
		120	Wind Normal	1097.72	950.65	548.86	82328.79	-142597.65	0.00
		150	Wind 90	1070.46	535.23	927.04	139056.50	-80284.31	0.00
		180	Wind 60	1066.53	0.00	1066.53	159980.03	0.00	0.00
		210	Wind 90	1070.46	-535.23	927.04	139056.50	80284.31	0.00
		240	Wind Normal	1097.72	-950.65	548.86	82328.79	142597.65	0.00

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	Client The Towers, LLC	Designed by AJK

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T7	140.00-120.00	270	Wind 90	1023.99	-1023.99	0.00	0.00	153598.96	0.00
		300	Wind 60	1020.07	-883.41	-510.03	-76505.19	132510.87	0.00
		330	Wind 90	1070.46	-535.23	-927.04	-139056.50	80284.31	0.00
		0	Wind Normal	1163.34	0.00	-1163.34	-151233.94	0.00	0.00
		30	Wind 90	1084.72	542.36	-939.40	-122121.47	-70506.86	0.00
		60	Wind 60	1033.47	895.01	-516.73	-67175.41	-116351.22	0.00
		90	Wind 90	1039.64	1039.64	0.00	0.00	-135152.62	0.00
		120	Wind Normal	1118.25	968.44	559.13	72686.42	-125896.57	0.00
		150	Wind 90	1084.72	542.36	939.40	122121.47	-70506.86	0.00
		180	Wind 60	1078.55	0.00	1078.55	140211.93	0.00	0.00
		210	Wind 90	1084.72	-542.36	939.40	122121.47	70506.86	0.00
		240	Wind Normal	1118.25	-968.44	559.13	72686.42	125896.57	0.00
T8	120.00-100.00	270	Wind 90	1039.64	-1039.64	0.00	0.00	135152.62	0.00
		300	Wind 60	1033.47	-895.01	-516.73	-67175.41	116351.22	0.00
		330	Wind 90	1084.72	-542.36	-939.40	-122121.47	70506.86	0.00
		0	Wind Normal	1127.11	0.00	-1127.11	-123982.47	0.00	0.00
		30	Wind 90	1051.83	525.91	-910.91	-100199.93	-57850.46	0.00
		60	Wind 60	1002.55	868.23	-501.27	-55140.19	-95505.62	0.00
		90	Wind 90	1008.30	1008.30	0.00	0.00	-110912.90	0.00
		120	Wind Normal	1083.59	938.41	541.79	59597.23	-103225.43	0.00
		150	Wind 90	1051.83	525.91	910.91	100199.93	-57850.46	0.00
		180	Wind 60	1046.08	0.00	1046.08	115068.40	0.00	0.00
		210	Wind 90	1051.83	-525.91	910.91	100199.93	57850.46	0.00
		240	Wind Normal	1083.59	-938.41	541.79	59597.23	103225.43	0.00
T9	100.00-80.00	270	Wind 90	1008.30	-1008.30	0.00	0.00	110912.90	0.00
		300	Wind 60	1002.55	-868.23	-501.27	-55140.19	95505.62	0.00
		330	Wind 90	1051.83	-525.91	-910.91	-100199.93	57850.46	0.00
		0	Wind Normal	1149.41	0.00	-1149.41	-103447.21	0.00	0.00
		30	Wind 90	1074.31	537.15	-930.38	-83733.87	-48343.77	0.00
		60	Wind 60	1026.09	888.62	-513.04	-46173.99	-79975.69	0.00
		90	Wind 90	1032.58	1032.58	0.00	0.00	-92932.13	0.00
		120	Wind Normal	1107.69	959.28	553.84	49845.90	-86335.63	0.00
		150	Wind 90	1074.31	537.15	930.38	83733.87	-48343.77	0.00
		180	Wind 60	1067.82	0.00	1067.82	96103.39	0.00	0.00
		210	Wind 90	1074.31	-537.15	930.38	83733.87	48343.77	0.00
		240	Wind Normal	1107.69	-959.28	553.84	49845.90	86335.63	0.00
T10	80.00-60.00	270	Wind 90	1032.58	-1032.58	0.00	0.00	92932.13	0.00
		300	Wind 60	1026.09	-888.62	-513.04	-46173.99	79975.69	0.00
		330	Wind 90	1074.31	-537.15	-930.38	-83733.87	48343.77	0.00
		0	Wind Normal	1192.55	0.00	-1192.55	-83478.42	0.00	0.00
		30	Wind 90	1106.65	553.32	-958.39	-67087.08	-38732.75	0.00
		60	Wind 60	1056.03	914.55	-528.01	-36961.05	-64018.41	0.00
		90	Wind 90	1067.07	1067.07	0.00	0.00	-74695.14	0.00
		120	Wind Normal	1152.97	998.50	576.49	40354.03	-69895.24	0.00
		150	Wind 90	1106.65	553.32	958.39	67087.08	-38732.75	0.00
		180	Wind 60	1095.61	0.00	1095.61	76692.45	0.00	0.00
		210	Wind 90	1106.65	-553.32	958.39	67087.08	38732.75	0.00
		240	Wind Normal	1152.97	-998.50	576.49	40354.03	69895.24	0.00
T11	60.00-40.00	270	Wind 90	1067.07	-1067.07	0.00	0.00	74695.14	0.00
		300	Wind 60	1056.03	-914.55	-528.01	-36961.05	64018.41	0.00
		330	Wind 90	1106.65	-553.32	-958.39	-67087.08	38732.75	0.00
		0	Wind Normal	1154.83	0.00	-1154.83	-57741.43	0.00	0.00
		30	Wind 90	1069.37	534.68	-926.10	-46304.97	-26734.19	0.00
		60	Wind 60	1020.40	883.69	-510.20	-25509.93	-44184.49	0.00
		90	Wind 90	1032.50	1032.50	0.00	0.00	-51624.87	0.00
		120	Wind Normal	1117.96	968.18	558.98	27948.96	-48409.03	0.00
		150	Wind 90	1069.37	534.68	926.10	46304.97	-26734.19	0.00
		180	Wind 60	1057.27	0.00	1057.27	52863.36	0.00	0.00
		210	Wind 90	1069.37	-534.68	926.10	46304.97	26734.19	0.00
		240	Wind Normal	1117.96	-968.18	558.98	27948.96	48409.03	0.00
		270	Wind 90	1032.50	-1032.50	0.00	0.00	51624.87	0.00

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	Project	NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date	13:03:29 08/01/25
	Client	The Towers, LLC	Designed by	AJK

Section No.	Section Elevation ft	Wind Azimuth °	Directionality	F lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
T12	40.00-20.00	300	Wind 60	1020.40	-883.69	-510.20	-25509.93	44184.49	0.00
		330	Wind 90	1069.37	-534.68	-926.10	-46304.97	26734.19	0.00
		0	Wind Normal	1079.20	0.00	-1079.20	-32376.14	0.00	0.00
		30	Wind 90	997.52	498.76	-863.88	-25916.45	-14962.87	0.00
		60	Wind 60	951.90	824.37	-475.95	-14278.55	-24731.17	0.00
		90	Wind 90	964.41	964.41	0.00	0.00	-28932.41	0.00
		120	Wind Normal	1046.09	905.94	523.05	15691.41	-27178.31	0.00
		150	Wind 90	997.52	498.76	863.88	25916.45	-14962.87	0.00
		180	Wind 60	985.01	0.00	985.01	29550.41	0.00	0.00
		210	Wind 90	997.52	-498.76	863.88	25916.45	14962.87	0.00
		240	Wind Normal	1046.09	-905.94	523.05	15691.41	27178.31	0.00
		270	Wind 90	964.41	-964.41	0.00	0.00	28932.41	0.00
T13	20.00-0.00	300	Wind 60	951.90	-824.37	-475.95	-14278.55	24731.17	0.00
		330	Wind 90	997.52	-498.76	-863.88	-25916.45	14962.87	0.00
		0	Wind Normal	1026.84	0.00	-1026.84	-10268.35	0.00	0.00
		30	Wind 90	943.33	471.67	-816.95	-8169.51	-4716.67	0.00
		60	Wind 60	899.58	779.06	-449.79	-4497.91	-7790.61	0.00
		90	Wind 90	914.68	914.68	0.00	0.00	-9146.81	0.00
		120	Wind Normal	998.18	864.45	499.09	4990.91	-8644.52	0.00
		150	Wind 90	943.33	471.67	816.95	8169.51	-4716.67	0.00
		180	Wind 60	928.23	0.00	928.23	9282.35	0.00	0.00
		210	Wind 90	943.33	-471.67	816.95	8169.51	4716.67	0.00
		240	Wind Normal	998.18	-864.45	499.09	4990.91	8644.52	0.00
		270	Wind 90	914.68	-914.68	0.00	0.00	9146.81	0.00
		300	Wind 60	899.58	-779.06	-449.79	-4497.91	7790.61	0.00
		330	Wind 90	943.33	-471.67	-816.95	-8169.51	4716.67	0.00

Mast Totals - Service

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.00	-13263.54	-1591087.47	0.00	0.00
30	6171.08	-10688.63	-1284287.14	-741483.53	0.00
60	10149.23	-5859.66	-701117.93	-1214371.88	0.00
90	11770.73	0.00	0.00	-1401798.20	0.00
120	10991.69	6346.06	754959.31	-1307627.87	0.00
150	6163.20	10674.98	1281147.92	-739671.10	0.00
180	0.00	12275.00	1479779.87	0.00	0.00
210	-6171.08	10688.63	1284287.14	741483.53	0.00
240	-11005.34	6353.94	756771.73	1310767.09	0.00
270	-11770.73	0.00	0.00	1401798.20	0.00
300	-10135.59	-5851.78	-699305.50	1211232.66	0.00
330	-6163.20	-10674.98	-1281147.92	739671.10	0.00

Discrete Appurtenance Pressures - No Ice

G_H = 0.850

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{MAc} Front ft ²	C _{MAc} Side ft ²
42,000 sq in CaAa	0.0000	4964.00	0.00	0.00	250.00	1.535	37	292.00	292.00
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	239.00	1.520	36	208.00	208.00

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN 46619 Phone: 800-806-3556 FAX:	Job	SO33656; Tower 802836; Foundation 802837	Page	31 of 53
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	Client	The Towers, LLC	Designed by	AJK

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAC} Front ft ²	C _{AAC} Side ft ²
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	229.00	1.507	36	208.00	208.00
Dish Pipe Mount	120.0000	103.00	3.44	1.98	215.00	1.487	36	0.00	1.80
	Sum	12139.00							
	Weight:								

Discrete Appurtenance Vectors - No Ice

42,000 sq in CaAa - Elevation 250 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	7494.33	0.00	0.00	-7494.33	-1873582.71	0.00	0.00
30	7494.33	0.00	3747.17	-6490.28	-1622570.22	-936791.35	0.00
60	7494.33	0.00	6490.28	-3747.17	-936791.35	-1622570.22	0.00
90	7494.33	0.00	7494.33	0.00	0.00	-1873582.71	0.00
120	7494.33	0.00	6490.28	3747.17	936791.35	-1622570.22	0.00
150	7494.33	0.00	3747.17	6490.28	1622570.22	-936791.35	0.00
180	7494.33	0.00	0.00	7494.33	1873582.71	0.00	0.00
210	7494.33	0.00	-3747.17	6490.28	1622570.22	936791.35	0.00
240	7494.33	0.00	-6490.28	3747.17	936791.35	1622570.22	0.00
270	7494.33	0.00	-7494.33	0.00	0.00	1873582.71	0.00
300	7494.33	0.00	-6490.28	-3747.17	-936791.35	1622570.22	0.00
330	7494.33	0.00	-3747.17	-6490.28	-1622570.22	936791.35	0.00

30,000 sq in CaAa - Elevation 239 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	5288.09	0.00	0.00	-5288.09	-1263854.61	0.00	0.00
30	5288.09	0.00	2644.05	-4579.62	-1094530.20	-631927.30	0.00
60	5288.09	0.00	4579.62	-2644.05	-631927.30	-1094530.20	0.00
90	5288.09	0.00	5288.09	0.00	0.00	-1263854.61	0.00
120	5288.09	0.00	4579.62	2644.05	631927.30	-1094530.20	0.00
150	5288.09	0.00	2644.05	4579.62	1094530.20	-631927.30	0.00
180	5288.09	0.00	0.00	5288.09	1263854.61	0.00	0.00
210	5288.09	0.00	-2644.05	4579.62	1094530.20	631927.30	0.00
240	5288.09	0.00	-4579.62	2644.05	631927.30	1094530.20	0.00
270	5288.09	0.00	-5288.09	0.00	0.00	1263854.61	0.00
300	5288.09	0.00	-4579.62	-2644.05	-631927.30	1094530.20	0.00
330	5288.09	0.00	-2644.05	-4579.62	-1094530.20	631927.30	0.00

30,000 sq in CaAa - Elevation 229 - None A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	5240.72	0.00	0.00	-5240.72	-1200125.93	0.00	0.00
30	5240.72	0.00	2620.36	-4538.60	-1039339.55	-600062.97	0.00
60	5240.72	0.00	4538.60	-2620.36	-600062.97	-1039339.55	0.00
90	5240.72	0.00	5240.72	0.00	0.00	-1200125.93	0.00
120	5240.72	0.00	4538.60	2620.36	600062.97	-1039339.55	0.00
150	5240.72	0.00	2620.36	4538.60	1039339.55	-600062.97	0.00
180	5240.72	0.00	0.00	5240.72	1200125.93	0.00	0.00
210	5240.72	0.00	-2620.36	4538.60	1039339.55	600062.97	0.00
240	5240.72	0.00	-4538.60	2620.36	600062.97	1039339.55	0.00

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	Client	The Towers, LLC	Designed by	AJK

30,000 sq in CaAa - Elevation 229 - None A							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
270	5240.72	0.00	-5240.72	0.00	0.00	1200125.93	0.00
300	5240.72	0.00	-4538.60	-2620.36	-600062.97	1039339.55	0.00
330	5240.72	0.00	-2620.36	-4538.60	-1039339.55	600062.97	0.00

Dish Pipe Mount - Elevation 215 - From Leg B							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.00	47.27	23.63	-40.93	-8596.31	-5435.16	187.61
30	0.00	54.58	27.29	-47.27	-9957.79	-6221.21	216.64
60	0.00	47.27	23.63	-40.93	-8596.31	-5435.16	187.61
90	0.00	27.29	13.64	-23.63	-4876.68	-3287.64	108.32
120	0.00	0.00	0.00	0.00	204.42	-354.06	0.00
150	0.00	27.29	-13.64	23.63	5285.52	2579.51	-108.32
180	0.00	47.27	-23.63	40.93	9005.15	4727.04	-187.61
210	0.00	54.58	-27.29	47.27	10366.62	5513.09	-216.64
240	0.00	47.27	-23.63	40.93	9005.15	4727.04	-187.61
270	0.00	27.29	-13.64	23.63	5285.52	2579.51	-108.32
300	0.00	0.00	0.00	0.00	204.42	-354.06	0.00
330	0.00	27.29	13.64	-23.63	-4876.68	-3287.64	108.32

Discrete Appurtenance Totals - No Ice

Wind Azimuth °	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	23.63	-18064.08	-4346159.56	-5435.16	187.61
30	9038.86	-15655.77	-3766397.75	-2175002.84	216.64
60	15632.14	-9052.51	-2177377.93	-3761875.13	187.61
90	18036.79	-23.63	-4876.68	-4340850.89	108.32
120	15608.51	9011.58	2168986.04	-3756794.03	0.00
150	8997.93	15632.14	3761725.48	-2166202.11	-108.32
180	-23.63	18064.08	4346568.39	4727.04	-187.61
210	-9038.86	15655.77	3766806.59	2174294.71	-216.64
240	-15632.14	9052.51	2177786.77	3761167.00	-187.61
270	-18036.79	23.63	5285.52	4340142.76	-108.32
300	-15608.51	-9011.58	-2168577.21	3756085.90	0.00
330	-8997.93	-15632.14	-3761316.65	2165493.99	108.32

Discrete Appurtenance Pressures - With Ice $G_H = 0.850$

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K_z	q_z psf	C_{AaC} Front ft ²	C_{AaC} Side ft ²	t_z in
42,000 sq in CaAa	0.0000	11164.64	0.00	0.00	250.00	1.535	3	505.06	505.06	1.8367
30,000 sq in CaAa	0.0000	7931.56	0.00	0.00	239.00	1.520	3	361.59	361.59	1.8284
30,000 sq in CaAa	0.0000	7912.81	0.00	0.00	229.00	1.507	3	360.93	360.93	1.8206
Dish Pipe Mount	120.0000	160.89	3.44	1.98	215.00	1.487	3	0.00	2.89	1.8092
Sum		27169.90								

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	Client The Towers, LLC	Designed by AJK

Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	z ft	K _z	q _z psf	C _{AAc} Front ft ²	C _{AAc} Side ft ²	t _z in
	Weight:									

Discrete Appurtenance Vectors - With Ice

42,000 sq in CaAa - Elevation 250 - None C							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	1058.16	0.00	0.00	-1058.16	-264540.80	0.00	0.00
30	1058.16	0.00	529.08	-916.40	-229099.05	-132270.40	0.00
60	1058.16	0.00	916.40	-529.08	-132270.40	-229099.05	0.00
90	1058.16	0.00	1058.16	0.00	0.00	-264540.80	0.00
120	1058.16	0.00	916.40	529.08	132270.40	-229099.05	0.00
150	1058.16	0.00	529.08	916.40	229099.05	-132270.40	0.00
180	1058.16	0.00	0.00	1058.16	264540.80	0.00	0.00
210	1058.16	0.00	-529.08	916.40	229099.05	132270.40	0.00
240	1058.16	0.00	-916.40	529.08	132270.40	229099.05	0.00
270	1058.16	0.00	-1058.16	0.00	0.00	264540.80	0.00
300	1058.16	0.00	-916.40	-529.08	-132270.40	229099.05	0.00
330	1058.16	0.00	-529.08	-916.40	-229099.05	132270.40	0.00

30,000 sq in CaAa - Elevation 239 - None B							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	750.44	0.00	0.00	-750.44	-179354.55	0.00	0.00
30	750.44	0.00	375.22	-649.90	-155325.60	-89677.28	0.00
60	750.44	0.00	649.90	-375.22	-89677.28	-155325.60	0.00
90	750.44	0.00	750.44	0.00	0.00	-179354.55	0.00
120	750.44	0.00	649.90	375.22	89677.28	-155325.60	0.00
150	750.44	0.00	375.22	649.90	155325.60	-89677.28	0.00
180	750.44	0.00	0.00	750.44	179354.55	0.00	0.00
210	750.44	0.00	-375.22	649.90	155325.60	89677.28	0.00
240	750.44	0.00	-649.90	375.22	89677.28	155325.60	0.00
270	750.44	0.00	-750.44	0.00	0.00	179354.55	0.00
300	750.44	0.00	-649.90	-375.22	-89677.28	155325.60	0.00
330	750.44	0.00	-375.22	-649.90	-155325.60	89677.28	0.00

30,000 sq in CaAa - Elevation 229 - None A							
Wind Azimuth °	F _a lb	F _s lb	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	742.37	0.00	0.00	-742.37	-170002.23	0.00	0.00
30	742.37	0.00	371.18	-642.91	-147226.25	-85001.12	0.00
60	742.37	0.00	642.91	-371.18	-85001.12	-147226.25	0.00
90	742.37	0.00	742.37	0.00	0.00	-170002.23	0.00
120	742.37	0.00	642.91	371.18	85001.12	-147226.25	0.00
150	742.37	0.00	371.18	642.91	147226.25	-85001.12	0.00
180	742.37	0.00	0.00	742.37	170002.23	0.00	0.00
210	742.37	0.00	-371.18	642.91	147226.25	85001.12	0.00
240	742.37	0.00	-642.91	371.18	85001.12	147226.25	0.00
270	742.37	0.00	-742.37	0.00	0.00	170002.23	0.00
300	742.37	0.00	-642.91	-371.18	-85001.12	147226.25	0.00
330	742.37	0.00	-371.18	-642.91	-147226.25	85001.12	0.00

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	Client	The Towers, LLC	Designed by	AJK

<i>Dish Pipe Mount - Elevation 215 - From Leg B</i>							
<i>Wind Azimuth</i> °	<i>F_a</i> lb	<i>F_s</i> lb	<i>V_x</i> lb	<i>V_z</i> lb	<i>OTM_x</i> lb-ft	<i>OTM_z</i> lb-ft	<i>Torque</i> lb-ft
0	0.00	6.19	3.09	-5.36	-832.37	-1218.00	24.55
30	0.00	7.14	3.57	-6.19	-1010.53	-1320.86	28.35
60	0.00	6.19	3.09	-5.36	-832.37	-1218.00	24.55
90	0.00	3.57	1.79	-3.09	-345.61	-936.97	14.17
120	0.00	0.00	0.00	0.00	319.32	-553.07	0.00
150	0.00	3.57	-1.79	3.09	984.24	-169.18	-14.17
180	0.00	6.19	-3.09	5.36	1471.00	111.85	-24.55
210	0.00	7.14	-3.57	6.19	1649.17	214.72	-28.35
240	0.00	6.19	-3.09	5.36	1471.00	111.85	-24.55
270	0.00	3.57	-1.79	3.09	984.24	-169.18	-14.17
300	0.00	0.00	0.00	0.00	319.32	-553.07	0.00
330	0.00	3.57	1.79	-3.09	-345.61	-936.97	14.17

Discrete Appurtenance Totals - With Ice

<i>Wind Azimuth</i> °	<i>V_x</i> lb	<i>V_z</i> lb	<i>OTM_x</i> lb-ft	<i>OTM_z</i> lb-ft	<i>Torque</i> lb-ft
0	3.09	-2556.33	-614729.95	-1218.00	24.55
30	1279.06	-2215.39	-532661.43	-308269.65	28.35
60	2212.30	-1280.84	-307781.16	-532868.90	24.55
90	2552.75	-3.09	-345.61	-614834.55	14.17
120	2209.20	1275.48	307268.11	-532203.97	0.00
150	1273.70	2212.30	532635.14	-307117.97	-14.17
180	-3.09	2556.33	615368.58	111.85	-24.55
210	-1279.06	2215.39	533300.07	307163.51	-28.35
240	-2212.30	1280.84	308419.79	531762.75	-24.55
270	-2552.75	3.09	984.24	613728.40	-14.17
300	-2209.20	-1275.48	-306629.47	531097.83	0.00
330	-1273.70	-2212.30	-531996.51	306011.82	14.17

Discrete Appurtenance Pressures - Service *G_H = 0.850*

<i>Description</i>	<i>Aiming Azimuth</i> °	<i>Weight</i> lb	<i>Offset_x</i> ft	<i>Offset_z</i> ft	<i>z</i> ft	<i>K_z</i>	<i>q_z</i> psf	<i>C_AA_C Front</i> ft ²	<i>C_AA_C Side</i> ft ²
42,000 sq in CaAa	0.0000	4964.00	0.00	0.00	250.00	1.535	12	292.00	292.00
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	239.00	1.520	12	208.00	208.00
30,000 sq in CaAa	0.0000	3536.00	0.00	0.00	229.00	1.507	12	208.00	208.00
Dish Pipe Mount	120.0000	103.00	3.44	1.98	215.00	1.487	12	0.00	1.80
Sum Weight:		12139.00							

Discrete Appurtenance Vectors - Service

42,000 sq in CaAa - Elevation 250 - None C

<i>tnxTower</i> <i>Nello Corporation</i> 1201 S. Sheridan Street South Bend, IN 46619 Phone: 800-806-3556 FAX:	Job	SO33656; Tower 802836; Foundation 802837	Page	35 of 53
	Project	NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date	13:03:29 08/01/25
	Client	The Towers, LLC	Designed by	AJK

Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	2447.13	0.00	0.00	-2447.13	-611782.11	0.00	0.00
30	2447.13	0.00	1223.56	-2119.28	-529818.85	-305891.05	0.00
60	2447.13	0.00	2119.28	-1223.56	-305891.05	-529818.85	0.00
90	2447.13	0.00	2447.13	0.00	0.00	-611782.11	0.00
120	2447.13	0.00	2119.28	1223.56	305891.05	-529818.85	0.00
150	2447.13	0.00	1223.56	2119.28	529818.85	-305891.05	0.00
180	2447.13	0.00	0.00	2447.13	611782.11	0.00	0.00
210	2447.13	0.00	-1223.56	2119.28	529818.85	305891.05	0.00
240	2447.13	0.00	-2119.28	1223.56	305891.05	529818.85	0.00
270	2447.13	0.00	-2447.13	0.00	0.00	611782.11	0.00
300	2447.13	0.00	-2119.28	-1223.56	-305891.05	529818.85	0.00
330	2447.13	0.00	-1223.56	-2119.28	-529818.85	305891.05	0.00

30,000 sq in CaAa - Elevation 239 - None B							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	1726.72	0.00	0.00	-1726.72	-412687.22	0.00	0.00
30	1726.72	0.00	863.36	-1495.39	-357397.62	-206343.61	0.00
60	1726.72	0.00	1495.39	-863.36	-206343.61	-357397.62	0.00
90	1726.72	0.00	1726.72	0.00	0.00	-412687.22	0.00
120	1726.72	0.00	1495.39	863.36	206343.61	-357397.62	0.00
150	1726.72	0.00	863.36	1495.39	357397.62	-206343.61	0.00
180	1726.72	0.00	0.00	1726.72	412687.22	0.00	0.00
210	1726.72	0.00	-863.36	1495.39	357397.62	206343.61	0.00
240	1726.72	0.00	-1495.39	863.36	206343.61	357397.62	0.00
270	1726.72	0.00	-1726.72	0.00	0.00	412687.22	0.00
300	1726.72	0.00	-1495.39	-863.36	-206343.61	357397.62	0.00
330	1726.72	0.00	-863.36	-1495.39	-357397.62	206343.61	0.00

30,000 sq in CaAa - Elevation 229 - None A							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	1711.26	0.00	0.00	-1711.26	-391877.86	0.00	0.00
30	1711.26	0.00	855.63	-1481.99	-339376.18	-195938.93	0.00
60	1711.26	0.00	1481.99	-855.63	-195938.93	-339376.18	0.00
90	1711.26	0.00	1711.26	0.00	0.00	-391877.86	0.00
120	1711.26	0.00	1481.99	855.63	195938.93	-339376.18	0.00
150	1711.26	0.00	855.63	1481.99	339376.18	-195938.93	0.00
180	1711.26	0.00	0.00	1711.26	391877.86	0.00	0.00
210	1711.26	0.00	-855.63	1481.99	339376.18	195938.93	0.00
240	1711.26	0.00	-1481.99	855.63	195938.93	339376.18	0.00
270	1711.26	0.00	-1711.26	0.00	0.00	391877.86	0.00
300	1711.26	0.00	-1481.99	-855.63	-195938.93	339376.18	0.00
330	1711.26	0.00	-855.63	-1481.99	-339376.18	195938.93	0.00

Dish Pipe Mount - Elevation 215 - From Leg B							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.00	15.43	7.72	-13.37	-2669.29	-2013.20	61.26
30	0.00	17.82	8.91	-15.43	-3113.85	-2269.87	70.74
60	0.00	15.43	7.72	-13.37	-2669.29	-2013.20	61.26
90	0.00	8.91	4.46	-7.72	-1454.72	-1311.96	35.37

<i>tnxTower</i> Nello Corporation 1201 S. Sheridan Street South Bend, IN 46619 Phone: 800-806-3556 FAX:	Job	SO33656; Tower 802836; Foundation 802837	Page	36 of 53
	Project	NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date	13:03:29 08/01/25
	Client	The Towers, LLC	Designed by	AJK

Dish Pipe Mount - Elevation 215 - From Leg B							
Wind Azimuth °	F_a lb	F_s lb	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
120	0.00	0.00	0.00	0.00	204.42	-354.06	0.00
150	0.00	8.91	-4.46	7.72	1863.55	603.84	-35.37
180	0.00	15.43	-7.72	13.37	3078.13	1305.07	-61.26
210	0.00	17.82	-8.91	15.43	3522.69	1561.74	-70.74
240	0.00	15.43	-7.72	13.37	3078.13	1305.07	-61.26
270	0.00	8.91	-4.46	7.72	1863.55	603.84	-35.37
300	0.00	0.00	0.00	0.00	204.42	-354.06	0.00
330	0.00	8.91	4.46	-7.72	-1454.72	-1311.96	35.37

Discrete Appurtenance Totals - Service

Wind Azimuth °	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	7.72	-5898.48	-1419016.47	-2013.20	61.26
30	2951.47	-5112.09	-1229706.49	-710443.46	70.74
60	5104.37	-2955.92	-710842.88	-1228605.84	61.26
90	5889.57	-7.72	-1454.72	-1417659.15	35.37
120	5096.65	2942.56	708378.01	-1226946.70	0.00
150	2938.10	5104.37	1228456.19	-707569.75	-35.37
180	-7.72	5898.48	1419425.31	1305.07	-61.26
210	-2951.47	5112.09	1230115.33	709735.33	-70.74
240	-5104.37	2955.92	711251.72	1227897.71	-61.26
270	-5889.57	7.72	1863.55	1416951.02	-35.37
300	-5096.65	-2942.56	-707969.17	1226238.58	0.00
330	-2938.10	-5104.37	-1228047.36	706861.63	35.37

Dish Pressures - No Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K_z	A_A ft ²	q_z psf
215.00	6' Solid w/Radome	120.0000	162.00	3.44	1.98	1.487	28.27	36
		Sum Weight:	162.00					

Dish Vectors - No Ice

6' Solid w/Radome - Elevation 215 - From Leg B											
Wind Azimuth °	C_A	C_S	C_M	F_A lb	F_S lb	F_M lb-ft	V_x lb	V_z lb	OTM_x lb-ft	OTM_z lb-ft	Torque lb-ft
0	0.001070	0.001280	-0.000002	358.27	428.59	-4.02	-95.98	-550.31	-117994.54	20078.78	1697.18
30	0.000340	0.001040	0.000390	113.84	348.23	783.52	75.52	-358.50	-76755.49	-16794.26	2165.74
60	-0.000420	0.000890	0.000404	-140.63	298.00	811.64	270.79	-187.76	-40047.65	-58777.19	1994.51
90	-0.001330	0.000700	0.000132	-445.33	234.39	265.19	502.86	19.68	4553.23	-108672.07	1195.53
120	-0.001770	0.000000	0.000000	-592.66	0.00	0.00	513.26	296.33	64032.44	-110907.44	0.00
150	-0.001330	-0.000700	-0.000132	-445.33	-234.39	-265.19	268.48	425.65	91836.16	-58279.25	-1195.53
180	-0.000420	-0.000890	-0.000404	-140.63	-298.00	-811.64	-27.21	328.39	70926.37	5293.68	-1994.51
210	0.000340	-0.001040	-0.000390	113.84	-348.23	-783.52	-272.71	244.65	52922.00	58075.08	-2165.74

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	Project	NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date	13:03:29 08/01/25
	Client	The Towers, LLC	Designed by	AJK

6' Solid w/Radome - Elevation 215 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A	F _S	F _M	V _x	V _z	OTM _x	OTM _z	Torque
				lb	lb	lb-ft	lb	lb	lb-ft	lb-ft	lb-ft
240	0.001070	-0.001280	0.000002	358.27	-428.59	4.02	-524.57	192.03	41608.53	112225.66	-1697.18
270	0.001950	-0.001050	0.000277	652.93	-351.58	556.50	-741.24	-21.99	-4406.29	158810.40	-839.01
300	0.002210	0.000000	0.000000	739.99	0.00	0.00	-640.85	-369.99	-79227.16	137225.47	0.00
330	0.001950	0.001050	-0.000277	652.93	351.58	-556.50	-389.67	-630.94	-135330.69	83221.16	839.01

Dish Totals - No Ice

Wind Azimuth °	V _x	V _z	OTM _x	OTM _z	Torque
	lb	lb	lb-ft	lb-ft	lb-ft
0	-95.98	-550.31	-117994.54	20078.78	1697.18
30	75.52	-358.50	-76755.49	-16794.26	2165.74
60	270.79	-187.76	-40047.65	-58777.19	1994.51
90	502.86	19.68	4553.23	-108672.07	1195.53
120	513.26	296.33	64032.44	-110907.44	0.00
150	268.48	425.65	91836.16	-58279.25	-1195.53
180	-27.21	328.39	70926.37	5293.68	-1994.51
210	-272.71	244.65	52922.00	58075.08	-2165.74
240	-524.57	192.03	41608.53	112225.66	-1697.18
270	-741.24	-21.99	-4406.29	158810.40	-839.01
300	-640.85	-369.99	-79227.16	137225.47	0.00
330	-389.67	-630.94	-135330.69	83221.16	839.01

Dish Pressures - With Ice

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf	t _z in
215.00	6' Solid w/Radome	120.0000	737.32	3.44	1.98	1.487	31.14	3	1.8092
		Sum Weight:	737.32						

Dish Vectors - With Ice

6' Solid w/Radome - Elevation 215 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A	F _S	F _M	V _x	V _z	OTM _x	OTM _z	Torque
				lb	lb	lb-ft	lb	lb	lb-ft	lb-ft	lb-ft
0	0.001070	0.001280	-0.000002	32.21	38.54	-0.36	-8.63	-49.48	-9175.16	-679.07	152.60
30	0.000340	0.001040	0.000390	10.24	31.31	70.45	6.79	-32.23	-5467.12	-3994.54	194.73
60	-0.000420	0.000890	0.000404	-12.64	26.80	72.98	24.35	-16.88	-2166.51	-7769.47	179.34
90	-0.001330	0.000700	0.000132	-40.04	21.07	23.84	45.22	1.77	1843.82	-12255.81	107.50
120	-0.001770	0.000000	0.000000	-53.29	0.00	0.00	46.15	26.64	7191.94	-12456.80	0.00
150	-0.001330	-0.000700	-0.000132	-40.04	-21.07	-23.84	24.14	38.27	9691.93	-7724.70	-107.50
180	-0.000420	-0.000890	-0.000404	-12.64	-26.80	-72.98	-2.45	29.53	7811.81	-2008.49	-179.34
210	0.000340	-0.001040	-0.000390	10.24	-31.31	-70.45	-24.52	22.00	6192.93	2737.40	-194.73
240	0.001070	-0.001280	0.000002	32.21	-38.54	0.36	-47.17	17.27	5175.68	7606.39	-152.60
270	0.001950	-0.001050	0.000277	58.71	-31.61	50.04	-66.65	-1.98	1038.21	11795.09	-75.44
300	0.002210	0.000000	0.000000	66.54	0.00	0.00	-57.62	-33.27	-5689.36	9854.27	0.00
330	0.001950	0.001050	-0.000277	58.71	31.61	-50.04	-35.04	-56.73	-10733.96	4998.43	75.44

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	Client The Towers, LLC	Designed by AJK

Dish Totals - With Ice

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	-8.63	-49.48	-9175.16	-679.07	152.60
30	6.79	-32.23	-5467.12	-3994.54	194.73
60	24.35	-16.88	-2166.51	-7769.47	179.34
90	45.22	1.77	1843.82	-12255.81	107.50
120	46.15	26.64	7191.94	-12456.80	0.00
150	24.14	38.27	9691.93	-7724.70	-107.50
180	-2.45	29.53	7811.81	-2008.49	-179.34
210	-24.52	22.00	6192.93	2737.40	-194.73
240	-47.17	17.27	5175.68	7606.39	-152.60
270	-66.65	-1.98	1038.21	11795.09	-75.44
300	-57.62	-33.27	-5689.36	9854.27	0.00
330	-35.04	-56.73	-10733.96	4998.43	75.44

Dish Pressures - Service

Elevation ft	Dish Description	Aiming Azimuth °	Weight lb	Offset _x ft	Offset _z ft	K _z	A _A ft ²	q _z psf
215.00	6' Solid w/Radome	120.0000	162.00	3.44	1.98	1.487	28.27	12
		Sum Weight:	162.00					

Dish Vectors - Service

6' Solid w/Radome - Elevation 215 - From Leg B											
Wind Azimuth °	C _A	C _S	C _M	F _A lb	F _S lb	F _M lb-ft	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	0.001070	0.001280	-0.000002	116.99	139.95	-1.31	-31.34	-179.69	-38312.30	6181.30	554.18
30	0.000340	0.001040	0.000390	37.17	113.71	255.84	24.66	-117.06	-24846.49	-5858.88	707.18
60	-0.000420	0.000890	0.000404	-45.92	97.31	265.03	88.42	-61.31	-12860.25	-19567.59	651.27
90	-0.001330	0.000700	0.000132	-145.41	76.53	86.59	164.20	6.43	1703.30	-35859.80	390.38
120	-0.001770	0.000000	0.000000	-193.52	0.00	0.00	167.59	96.76	21125.08	-36589.71	0.00
150	-0.001330	-0.000700	-0.000132	-145.41	-76.53	-86.59	87.67	138.99	30203.85	-19405.00	-390.38
180	-0.000420	-0.000890	-0.000404	-45.92	-97.31	-265.03	-8.89	107.23	23376.16	1353.51	-651.27
210	0.000340	-0.001040	-0.000390	37.17	-113.71	-255.84	-89.05	79.89	17497.18	18588.25	-707.18
240	0.001070	-0.001280	0.000002	116.99	-139.95	1.31	-171.29	62.70	13802.99	36270.08	-554.18
270	0.001950	-0.001050	0.000277	213.20	-114.80	181.71	-242.04	-7.18	-1222.26	51481.42	-273.96
300	0.002210	0.000000	0.000000	241.63	0.00	0.00	-209.26	-120.81	-25653.56	44433.28	0.00
330	0.001950	0.001050	-0.000277	213.20	114.80	-181.71	-127.24	-206.02	-43973.09	26799.22	273.96

Dish Totals - Service

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
0	-31.34	-179.69	-38312.30	6181.30	554.18
30	24.66	-117.06	-24846.49	-5858.88	707.18

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	Project NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date 13:03:29 08/01/25
	Client The Towers, LLC	Designed by AJK

Wind Azimuth °	V _x lb	V _z lb	OTM _x lb-ft	OTM _z lb-ft	Torque lb-ft
60	88.42	-61.31	-12860.25	-19567.59	651.27
90	164.20	6.43	1703.30	-35859.80	390.38
120	167.59	96.76	21125.08	-36589.71	0.00
150	87.67	138.99	30203.85	-19405.00	-390.38
180	-8.89	107.23	23376.16	1353.51	-651.27
210	-89.05	79.89	17497.18	18588.25	-707.18
240	-171.29	62.70	13802.99	36270.08	-554.18
270	-242.04	-7.18	-1222.26	51481.42	-273.96
300	-209.26	-120.81	-25653.56	44433.28	0.00
330	-127.24	-206.02	-43973.09	26799.22	273.96

Force Totals

Load Case	Vertical Forces lb	Sum of Forces X lb	Sum of Forces Z lb	Sum of Overturning Moments, M _x lb-ft	Sum of Overturning Moments, M _z lb-ft	Sum of Torques lb-ft
Leg Weight	23209.92					
Bracing Weight	13098.43					
Total Member Self-Weight	36308.35			525.93	-910.94	
Total Weight	57141.62			525.93	-910.94	
Wind 0 deg - No Ice		-72.35	-57182.45	-9118025.00	14643.62	1884.79
Wind 30 deg - No Ice		26987.55	-46971.50	-7586766.40	-4353173.16	2382.37
Wind 60 deg - No Ice		45208.27	-26159.72	-4255182.02	-7350150.00	2182.12
Wind 90 deg - No Ice		52535.98	-3.95	-323.46	-8523695.46	1303.85
Wind 120 deg - No Ice		48007.13	27716.93	4435664.12	-7682795.62	0.00
Wind 150 deg - No Ice		27115.44	46973.22	7587560.94	-4380306.86	-1303.85
Wind 180 deg - No Ice		-50.84	53933.11	8730486.13	10020.72	-2182.12
Wind 210 deg - No Ice		-27184.74	46857.66	7563341.75	4393745.86	-2382.37
Wind 240 deg - No Ice		-48083.87	27677.70	4427591.51	7698100.68	-1884.79
Wind 270 deg - No Ice		-52774.36	1.64	879.23	8573125.67	-947.33
Wind 300 deg - No Ice		-45512.90	-26276.88	-4280010.24	7413195.19	0.00
Wind 330 deg - No Ice		-27236.63	-47178.51	-7630646.64	4404540.65	947.33
Member Ice	48964.29					
Total Weight Ice	145502.40			1782.64	-3087.62	
Wind 0 deg - Ice		-5.54	-7511.07	-1232783.37	-1897.07	177.15
Wind 30 deg - Ice		3635.40	-6317.17	-1044891.62	-604843.99	223.08
Wind 60 deg - Ice		6178.33	-3573.45	-592987.96	-1030878.55	203.89
Wind 90 deg - Ice		7154.22	-1.32	1498.21	-1191957.73	121.67
Wind 120 deg - Ice		6379.72	3683.33	608753.07	-1054391.25	0.00
Wind 150 deg - Ice		3645.42	6316.70	1048305.34	-606969.35	-121.67
Wind 180 deg - Ice		-5.54	7276.23	1208646.99	-1896.63	-203.89
Wind 210 deg - Ice		-3653.13	6306.94	1046256.07	602480.70	-223.08
Wind 240 deg - Ice		-6387.24	3681.28	608341.60	1049884.41	-177.15
Wind 270 deg - Ice		-7175.66	1.12	2022.46	1190390.87	-89.62
Wind 300 deg - Ice		-6205.10	-3582.51	-594906.03	1030407.47	0.00
Wind 330 deg - Ice		-3656.32	-6335.16	-1048708.73	603136.94	89.62
Total Weight	57141.62			525.93	-910.94	
Wind 0 deg - Service		-23.62	-19341.71	-3048416.24	4168.10	615.44
Wind 30 deg - Service		9147.21	-15917.78	-2538840.12	-1457785.86	777.92
Wind 60 deg - Service		15342.03	-8876.90	-1424821.07	-2462545.31	712.53
Wind 90 deg - Service		17824.50	-1.29	248.58	-2855317.14	425.75
Wind 120 deg - Service		16255.94	9385.37	1484462.39	-2571164.29	0.00
Wind 150 deg - Service		9188.97	15918.34	2539807.96	-1466645.85	-425.75
Wind 180 deg - Service		-16.60	18280.70	2922581.33	2658.58	-712.53
Wind 210 deg - Service		-9211.59	15880.60	2531899.65	1469807.11	-777.92
Wind 240 deg - Service		-16281.00	9372.56	1481826.44	2574934.88	-615.44

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<i>Load Case</i>	<i>Vertical Forces</i>	<i>Sum of Forces X</i>	<i>Sum of Forces Z</i>	<i>Sum of Overturning Moments, M_x</i>	<i>Sum of Overturning Moments, M_z</i>	<i>Sum of Torques</i>
	<i>lb</i>	<i>lb</i>	<i>lb</i>	<i>lb-ft</i>	<i>lb-ft</i>	<i>lb-ft</i>
Wind 270 deg - Service		-17902.34	0.54	641.29	2870230.64	-309.33
Wind 300 deg - Service		-15441.50	-8915.15	-1432928.24	2481904.52	0.00
Wind 330 deg - Service		-9228.54	-15985.37	-2553168.37	1473331.94	309.33

Load Combinations

<i>Comb. No.</i>	<i>Description</i>
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service

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<i>Comb. No.</i>	<i>Description</i>
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

<i>Section No.</i>	<i>Elevation ft</i>	<i>Component Type</i>	<i>Condition</i>	<i>Gov. Load Comb.</i>	<i>Axial lb</i>	<i>Major Axis Moment lb-ft</i>	<i>Minor Axis Moment lb-ft</i>
T1	255.3 - 240	Leg	Max Tension	15	9728.31	-0.13	18.63
			Max. Compression	2	-13754.24	-0.14	277.37
			Max. Mx	20	-1977.12	-282.11	0.71
			Max. My	14	9213.34	0.21	-284.65
			Max. Vy	20	2542.07	176.97	55.88
		Diagonal	Max. Vx	2	2560.26	0.05	210.06
			Max Tension	24	3739.77	0.00	0.00
			Max. Compression	24	-3613.93	0.00	0.00
			Max. Mx	2	261.53	27.70	1.38
			Max. My	24	-3508.87	2.51	-15.38
		Top Girt	Max. Vy	32	-26.86	25.94	0.01
			Max. Vx	24	3.73	2.51	-15.38
			Max Tension	23	1155.81	0.00	0.00
			Max. Compression	10	-1238.72	0.00	0.00
			Max. Mx	26	-149.76	-66.70	0.00
			Max. My	14	-653.69	0.00	0.00
			Max. Vy	26	41.05	0.00	0.00
			Max. Vx	14	-0.00	0.00	0.00
T2	240 - 220	Leg	Max Tension	15	59823.68	4.95	-1072.07
			Max. Compression	2	-70029.46	25.10	19.40
			Max. Mx	20	-39514.51	-1709.04	54.73
			Max. My	2	-46107.24	1.77	-1715.52
			Max. Vy	20	1439.71	239.65	80.12
		Diagonal	Max. Vx	14	-1451.09	0.21	-284.65
			Max Tension	4	10404.17	0.00	0.00
			Max. Compression	4	-10745.17	0.00	0.00
			Max. Mx	2	8401.55	43.56	-0.87
			Max. My	24	-6507.94	-2.35	-12.60
			Max. Vy	27	-31.12	41.86	0.41
			Max. Vx	24	2.71	-2.35	-12.60
		Leg	Max Tension	15	117773.32	-522.75	-16.76
			Max. Compression	2	-131206.39	877.94	-1.88
			Max. Mx	22	98355.99	-1039.90	-0.01
			Max. My	24	-6119.48	13.46	863.73
			Max. Vy	22	421.97	-1039.90	-0.01
T3	220 - 200	Diagonal	Max. Vx	16	-406.78	-62.52	709.29
			Max Tension	24	7880.92	0.00	0.00
			Max. Compression	24	-7952.32	0.00	0.00
			Max. Mx	31	832.87	38.61	-3.57
			Max. My	14	-6764.37	-3.27	6.95
		Leg	Max. Vy	33	33.76	36.05	-4.28
			Max. Vx	27	1.72	0.00	0.00
			Max Tension	15	161324.77	-1039.61	-1.22
			Max. Compression	2	-178294.72	1390.10	-10.24
			Max. Mx	2	-178294.72	1390.10	-10.24
			Max. My	16	-7177.07	-3.69	1331.23
			Max. Vy	2	-112.89	1390.10	-10.24
			Max. Vx	24	-101.33	14.51	1035.82
		Diagonal	Max Tension	24	7125.68	0.00	0.00
			Max. Compression	24	-7276.65	0.00	0.00
			Max. Mx	33	779.42	47.00	-5.03
T4	200 - 180	Leg	Max Tension	15	161324.77	-1039.61	-1.22
			Max. Compression	2	-178294.72	1390.10	-10.24
			Max. Mx	2	-178294.72	1390.10	-10.24
			Max. My	16	-7177.07	-3.69	1331.23
			Max. Vy	2	-112.89	1390.10	-10.24
		Diagonal	Max. Vx	24	-101.33	14.51	1035.82
			Max Tension	24	7125.68	0.00	0.00
			Max. Compression	24	-7276.65	0.00	0.00
			Max. Mx	33	779.42	47.00	-5.03
			Max. Vy	2	-112.89	1390.10	-10.24

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft			
T5	180 - 160	Leg	Max. My	27	57.79	42.03	-5.55			
			Max. Vy	33	39.64	47.00	-5.03			
			Max. Vx	27	-1.84	0.00	0.00			
			Max Tension	15	198328.52	-1087.57	-0.82			
			Max. Compression	2	-218795.12	1433.01	-1.66			
			Max. Mx	2	-218795.12	1433.01	-1.66			
		Diagonal	Max. My	24	-8383.79	-1.66	1387.68			
			Max. Vy	2	-111.00	1433.01	-1.66			
			Max. Vx	16	-103.88	-19.30	1339.45			
			Max Tension	24	6700.82	0.00	0.00			
			Max. Compression	24	-7007.64	0.00	0.00			
			Max. Mx	31	799.00	73.62	-6.39			
			Max. My	27	71.67	63.79	-7.77			
			Max. Vy	33	53.64	70.97	-7.30			
T6	160 - 140	Leg	Max. Vx	27	-2.33	0.00	0.00			
			Max Tension	15	231437.91	-1927.12	-2.62			
			Max. Compression	2	-256024.70	2122.51	-2.75			
			Max. Mx	2	-231700.53	2328.85	-2.36			
			Max. My	24	-9289.03	-24.92	2154.75			
			Max. Vy	2	-207.25	2328.85	-2.36			
		Diagonal	Max. Vx	24	-130.48	14.63	1777.93			
			Max Tension	24	6697.55	0.00	0.00			
			Max. Compression	24	-6930.23	0.00	0.00			
			Max. Mx	33	693.54	85.86	-8.50			
			Max. My	27	100.54	78.69	-9.14			
			Max. Vy	33	59.95	85.86	-8.50			
			Max. Vx	27	-2.50	0.00	0.00			
			T7	140 - 120	Leg	Max Tension	15	262415.10	-2087.02	-3.42
Max. Compression	2	-291182.86				2874.96	-15.10			
Max. Mx	2	-291182.86				2874.96	-15.10			
Max. My	24	-10244.11				-36.49	2263.84			
Max. Vy	3	-177.32				2861.22	-15.14			
Max. Vx	24	195.61				-36.49	2263.84			
Diagonal	Max Tension	24			6868.45	0.00	0.00			
	Max. Compression	24			-7119.16	0.00	0.00			
	Max. Mx	33			699.19	102.57	9.83			
	Max. My	27			142.25	95.26	-10.59			
	Max. Vy	33			66.06	102.57	9.83			
	Max. Vx	27			-2.66	0.00	0.00			
	T8	120 - 100			Leg	Max Tension	15	289105.58	-1658.30	-5.41
						Max. Compression	2	-321481.81	2903.42	-4.04
Max. Mx			2	-321481.81		2903.42	-4.04			
Max. My			24	-11867.02		-94.12	3019.87			
Max. Vy			2	-236.36		2903.42	-4.04			
Max. Vx			24	211.47		-94.12	3019.87			
Diagonal			Max Tension	24	7690.92	0.00	0.00			
			Max. Compression	24	-8150.17	0.00	0.00			
			Max. Mx	33	788.22	157.10	-16.19			
			Max. My	27	111.10	141.43	-16.59			
			Max. Vy	33	83.45	157.10	-16.19			
			Max. Vx	27	-3.56	0.00	0.00			
			T9	100 - 80	Leg	Max Tension	15	316451.08	-3259.32	-6.65
						Max. Compression	2	-353611.89	4510.07	-26.00
Max. Mx	2	-353611.89				4510.07	-26.00			
Max. My	24	-14297.31				16.92	4279.94			
Max. Vy	3	-242.55				4495.56	-26.02			
Max. Vx	4	241.39				5.26	-4278.09			
Diagonal	Max Tension	24			7847.64	0.00	0.00			
	Max. Compression	24			-8237.38	0.00	0.00			
	Max. Mx	33			734.92	178.40	17.85			
	Max. My	27			127.72	162.78	-18.42			

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial lb	Major Axis Moment lb-ft	Minor Axis Moment lb-ft
T10	80 - 60	Leg	Max. Vy	33	89.63	178.40	-17.79
			Max. Vx	27	-3.71	0.00	0.00
			Max Tension	15	343325.24	-3072.11	-7.23
			Max. Compression	2	-385726.98	3511.73	-6.07
			Max. Mx	2	-369088.84	4510.07	-26.00
			Max. My	24	-14707.51	16.92	4279.94
		Diagonal	Max. Vy	3	264.50	4495.56	-26.02
			Max. Vx	4	-226.18	5.26	-4278.09
			Max Tension	24	8347.61	0.00	0.00
			Max. Compression	24	-8741.94	0.00	0.00
			Max. Mx	33	743.34	252.50	-24.40
			Max. My	27	204.75	232.45	-25.13
			Max. Vy	33	119.03	252.50	-24.40
			Max. Vx	27	-4.77	0.00	0.00
T11	60 - 40	Leg	Max Tension	15	369295.88	-3259.22	-4.25
			Max. Compression	2	-417059.12	3459.82	-5.21
			Max. Mx	2	-400858.15	3511.73	-6.07
			Max. My	24	-17260.40	-47.49	3279.44
			Max. Vy	37	160.23	-1447.96	0.00
			Max. Vx	24	116.59	-47.49	3279.44
		Diagonal	Max Tension	24	8668.25	0.00	0.00
			Max. Compression	24	-9083.78	0.00	0.00
			Max. Mx	33	876.56	280.22	-26.24
			Max. My	27	-108.51	275.86	-26.86
			Max. Vy	33	125.14	280.22	-26.24
			Max. Vx	27	-4.86	0.00	0.00
T12	40 - 20	Leg	Max Tension	15	394470.25	-3084.21	-5.04
			Max. Compression	2	-447706.26	4228.48	-6.59
			Max. Mx	33	9836.47	-4802.31	0.88
			Max. My	24	-19341.57	-142.28	3605.48
			Max. Vy	33	685.41	-4802.31	0.88
			Max. Vx	24	253.14	-142.28	3605.48
		Diagonal	Max Tension	24	8956.45	0.00	0.00
			Max. Compression	24	-9437.58	0.00	0.00
			Max. Mx	33	1743.52	294.49	-25.19
			Max. My	27	-192.15	273.60	-29.33
			Max. Vy	33	128.35	294.49	-25.19
			Max. Vx	27	-4.98	0.00	0.00
T13	20 - 0	Leg	Max Tension	15	418355.77	-3117.57	-7.84
			Max. Compression	2	-477329.72	-0.00	-0.09
			Max. Mx	27	-108794.43	6039.73	1.78
			Max. My	24	-21519.84	-277.93	6293.18
			Max. Vy	33	-1021.52	-4802.31	0.88
			Max. Vx	24	718.24	-277.93	6293.18
		Diagonal	Max Tension	25	9647.35	0.00	0.00
			Max. Compression	2	-10431.37	0.00	0.00
			Max. Mx	33	-1404.55	387.28	38.57
			Max. My	28	-2405.70	357.91	-39.81
			Max. Vy	33	143.32	387.28	38.57
			Max. Vx	28	-5.93	0.00	0.00

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Leg C	Max. Vert	18	473421.12	30833.72	-17747.01

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Location	Condition	Gov. Load Comb.	Vertical lb	Horizontal, X lb	Horizontal, Z lb
Leg B	Max. H _x	18	473421.12	30833.72	-17747.01
	Max. H _z	7	-412644.77	-27335.57	15717.56
	Min. Vert	7	-412644.77	-27335.57	15717.56
	Min. H _x	7	-412644.77	-27335.57	15717.56
	Min. H _z	18	473421.12	30833.72	-17747.01
	Max. Vert	10	472969.90	-30784.28	-17773.31
	Max. H _x	23	-416043.62	27492.90	15873.03
	Max. H _z	23	-416043.62	27492.90	15873.03
	Min. Vert	23	-416043.62	27492.90	15873.03
	Min. H _x	10	472969.90	-30784.28	-17773.31
Leg A	Min. H _z	10	472969.90	-30784.28	-17773.31
	Max. Vert	2	485450.67	47.47	36588.33
	Max. H _x	21	17102.29	2408.80	1000.37
	Max. H _z	2	485450.67	47.47	36588.33
	Min. Vert	15	-424646.95	-56.03	-32571.60
	Min. H _x	9	17162.76	-2397.12	1005.49
	Min. H _z	15	-424646.95	-56.03	-32571.60

Tower Mast Reaction Summary

Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x lb-ft	Overturning Moment, M _z lb-ft	Torque lb-ft
Dead Only	57141.62	-0.00	-0.00	525.83	-910.76	-0.00
1.2 Dead+1.0 Wind 0 deg - No Ice	68569.94	-72.35	-57182.45	-9214217.99	14569.98	1914.72
0.9 Dead+1.0 Wind 0 deg - No Ice	51427.45	-72.35	-57182.45	-9189746.24	14810.45	1906.61
1.2 Dead+1.0 Wind 30 deg - No Ice	68569.94	26987.59	-46971.48	-7667445.33	-4399850.96	2466.49
0.9 Dead+1.0 Wind 30 deg - No Ice	51427.46	26987.56	-46971.50	-7646960.02	-4387711.42	2455.76
1.2 Dead+1.0 Wind 60 deg - No Ice	68569.94	45208.28	-26159.72	-4300651.22	-7429162.15	2210.54
0.9 Dead+1.0 Wind 60 deg - No Ice	51427.46	45208.28	-26159.72	-4289163.41	-7408757.26	2202.85
1.2 Dead+1.0 Wind 90 deg - No Ice	68569.94	52535.98	-3.99	-252.01	-8615104.96	1273.21
0.9 Dead+1.0 Wind 90 deg - No Ice	51427.46	52535.98	-3.96	-403.88	-8591531.69	1271.09
1.2 Dead+1.0 Wind 120 deg - No Ice	68569.94	48007.13	27716.93	4482810.14	-7764453.07	0.01
0.9 Dead+1.0 Wind 120 deg - No Ice	51427.45	48007.13	27716.93	4470622.74	-7743344.35	0.01
1.2 Dead+1.0 Wind 150 deg - No Ice	68569.94	27115.40	46973.24	7668546.06	-4427143.54	-1269.76
0.9 Dead+1.0 Wind 150 deg - No Ice	51427.46	27115.44	46973.23	7647723.97	-4414947.05	-1267.27
1.2 Dead+1.0 Wind 180 deg - No Ice	68569.94	-50.84	53933.12	8823793.26	9889.72	-2211.11
0.9 Dead+1.0 Wind 180 deg - No Ice	51427.46	-50.84	53933.12	8799820.21	10143.68	-2203.26
1.2 Dead+1.0 Wind 210 deg - No Ice	68569.94	-27184.70	46857.68	7644104.43	4440278.54	-2466.48
0.9 Dead+1.0 Wind 210 deg - No Ice	51427.46	-27184.73	46857.67	7623348.85	4428607.11	-2455.75
1.2 Dead+1.0 Wind 240 deg -	68569.94	-48083.88	27677.70	4474684.89	7779522.36	-1914.14

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Load Combination	Vertical lb	Shear _x lb	Shear _z lb	Overturning Moment, M _x lb-ft	Overturning Moment, M _z lb-ft	Torque lb-ft
No Ice						
0.9 Dead+1.0 Wind 240 deg - No Ice	51427.45	-48083.87	27677.70	4462518.95	7758931.73	-1906.19
1.2 Dead+1.0 Wind 270 deg - No Ice	68569.94	-52774.36	1.60	955.61	8664685.54	-915.99
0.9 Dead+1.0 Wind 270 deg - No Ice	51427.46	-52774.37	1.64	800.61	8641534.63	-913.76
1.2 Dead+1.0 Wind 300 deg - No Ice	68569.94	-45512.90	-26276.89	-4325785.86	7492479.11	0.00
0.9 Dead+1.0 Wind 300 deg - No Ice	51427.46	-45512.90	-26276.88	-4314227.54	7472459.95	0.00
1.2 Dead+1.0 Wind 330 deg - No Ice	68569.94	-27236.66	-47178.49	-7711832.02	4451329.97	912.49
0.9 Dead+1.0 Wind 330 deg - No Ice	51427.46	-27236.64	-47178.51	-7691222.93	4439609.23	909.88
1.2 Dead+1.0 Ice+1.0 Temp	156930.73	-0.00	-0.00	1914.96	-3316.81	0.00
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	156930.73	-5.54	-7511.06	-1264915.61	-2241.02	190.50
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	156930.73	3635.40	-6317.16	-1072220.71	-621057.83	238.52
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	156930.73	6178.32	-3573.45	-608465.25	-1058374.33	216.98
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	156930.73	7154.21	-1.32	1705.55	-1223697.08	129.07
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	156930.73	6379.71	3683.33	624909.47	-1082374.93	0.00
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	156930.73	3645.42	6316.70	1076065.78	-623236.20	-129.15
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	156930.73	-5.54	7276.22	1240632.78	-2240.82	-217.13
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	156930.73	-3653.13	6306.93	1073962.20	618041.47	-238.52
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	156930.73	-6387.23	3681.28	624487.96	1077162.83	-190.34
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	156930.73	-7175.65	1.11	2244.14	1221504.36	-97.06
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	156930.73	-6205.09	-3582.51	-610435.67	1057305.59	-0.00
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	156930.73	-3656.32	-6335.15	-1076141.61	618719.42	97.14
Dead+Wind 0 deg - Service	57141.62	-23.62	-19341.71	-3075252.39	4194.58	623.98
Dead+Wind 30 deg - Service	57141.62	9147.21	-15917.78	-2561349.24	-1470729.84	782.15
Dead+Wind 60 deg - Service	57141.62	15342.03	-8876.90	-1437508.95	-2484497.52	720.65
Dead+Wind 90 deg - Service	57141.62	17824.50	-1.29	253.18	-2880742.88	435.74
Dead+Wind 120 deg - Service	57141.62	16255.94	9385.37	1497580.45	-2593885.38	0.00
Dead+Wind 150 deg - Service	57141.62	9188.97	15918.34	2562341.36	-1479660.62	-435.97
Dead+Wind 180 deg - Service	57141.62	-16.60	18280.70	2948532.60	2670.41	-720.81
Dead+Wind 210 deg - Service	57141.62	-9211.59	15880.60	2554364.00	1482828.63	-782.15
Dead+Wind 240 deg - Service	57141.62	-16281.00	9372.56	1494923.69	2597673.03	-623.81
Dead+Wind 270 deg - Service	57141.62	-17902.34	0.54	648.99	2895777.32	-319.36
Dead+Wind 300 deg - Service	57141.62	-15441.50	-8915.15	-1445693.96	2504015.34	-0.00
Dead+Wind 330 deg - Service	57141.62	-9228.54	-15985.37	-2575812.43	1486396.88	319.59

Solution Summary

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX lb	PY lb	PZ lb	PX lb	PY lb	PZ lb	
1	-0.00	-57141.62	-0.00	0.00	57141.62	0.00	0.000%
2	-72.35	-68569.94	-57182.45	72.35	68569.94	57182.45	0.000%
3	-72.35	-51427.46	-57182.45	72.35	51427.45	57182.45	0.000%
4	26987.55	-68569.94	-46971.50	-26987.59	68569.94	46971.48	0.000%
5	26987.55	-51427.46	-46971.50	-26987.56	51427.46	46971.50	0.000%
6	45208.27	-68569.94	-26159.72	-45208.28	68569.94	26159.72	0.000%
7	45208.27	-51427.46	-26159.72	-45208.28	51427.46	26159.72	0.000%
8	52535.98	-68569.94	-3.95	-52535.98	68569.94	3.99	0.000%
9	52535.98	-51427.46	-3.95	-52535.98	51427.46	3.96	0.000%
10	48007.13	-68569.94	27716.93	-48007.13	68569.94	-27716.93	0.000%
11	48007.13	-51427.46	27716.93	-48007.13	51427.45	-27716.93	0.000%
12	27115.44	-68569.94	46973.22	-27115.40	68569.94	-46973.24	0.000%
13	27115.44	-51427.46	46973.22	-27115.44	51427.46	-46973.23	0.000%
14	-50.84	-68569.94	53933.11	50.84	68569.94	-53933.12	0.000%
15	-50.84	-51427.46	53933.11	50.84	51427.46	-53933.12	0.000%
16	-27184.74	-68569.94	46857.66	27184.70	68569.94	-46857.68	0.000%
17	-27184.74	-51427.46	46857.66	27184.73	51427.46	-46857.67	0.000%
18	-48083.87	-68569.94	27677.70	48083.88	68569.94	-27677.70	0.000%
19	-48083.87	-51427.46	27677.70	48083.87	51427.45	-27677.70	0.000%
20	-52774.36	-68569.94	1.64	52774.36	68569.94	-1.60	0.000%
21	-52774.36	-51427.46	1.64	52774.37	51427.46	-1.64	0.000%
22	-45512.90	-68569.94	-26276.88	45512.90	68569.94	26276.89	0.000%
23	-45512.90	-51427.46	-26276.88	45512.90	51427.46	26276.88	0.000%
24	-27236.63	-68569.94	-47178.51	27236.66	68569.94	47178.49	0.000%
25	-27236.63	-51427.46	-47178.51	27236.64	51427.46	47178.51	0.000%
26	-0.00	-156930.73	-0.00	0.00	156930.73	0.00	0.000%
27	-5.54	-156930.73	-7511.07	5.54	156930.73	7511.06	0.000%
28	3635.40	-156930.73	-6317.17	-3635.40	156930.73	6317.16	0.000%
29	6178.33	-156930.73	-3573.45	-6178.32	156930.73	3573.45	0.000%
30	7154.22	-156930.73	-1.32	-7154.21	156930.73	1.32	0.000%
31	6379.72	-156930.73	3683.33	-6379.71	156930.73	-3683.33	0.000%
32	3645.42	-156930.73	6316.70	-3645.42	156930.73	-6316.70	0.000%
33	-5.54	-156930.73	7276.23	5.54	156930.73	-7276.22	0.000%
34	-3653.13	-156930.73	6306.94	3653.13	156930.73	-6306.93	0.000%
35	-6387.24	-156930.73	3681.28	6387.23	156930.73	-3681.28	0.000%
36	-7175.66	-156930.73	1.12	7175.65	156930.73	-1.11	0.000%
37	-6205.10	-156930.73	-3582.51	6205.09	156930.73	3582.51	0.000%
38	-3656.32	-156930.73	-6335.16	3656.32	156930.73	6335.15	0.000%
39	-23.62	-57141.62	-19341.71	23.62	57141.62	19341.71	0.000%
40	9147.21	-57141.62	-15917.78	-9147.21	57141.62	15917.78	0.000%
41	15342.03	-57141.62	-8876.89	-15342.03	57141.62	8876.90	0.000%
42	17824.50	-57141.62	-1.29	-17824.50	57141.62	1.29	0.000%
43	16255.94	-57141.62	9385.37	-16255.94	57141.62	-9385.37	0.000%
44	9188.97	-57141.62	15918.34	-9188.97	57141.62	-15918.34	0.000%
45	-16.60	-57141.62	18280.70	16.60	57141.62	-18280.70	0.000%
46	-9211.59	-57141.62	15880.60	9211.59	57141.62	-15880.60	0.000%
47	-16281.00	-57141.62	9372.56	16281.00	57141.62	-9372.56	0.000%
48	-17902.34	-57141.62	0.54	17902.34	57141.62	-0.54	0.000%
49	-15441.50	-57141.62	-8915.15	15441.50	57141.62	8915.15	0.000%
50	-9228.54	-57141.62	-15985.37	9228.54	57141.62	15985.37	0.000%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	4	0.00000001	0.00000001

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2	Yes	4	0.00000001	0.00000206
3	Yes	4	0.00000001	0.00000050
4	Yes	4	0.00000001	0.00000425
5	Yes	4	0.00000001	0.00000310
6	Yes	4	0.00000001	0.00000319
7	Yes	4	0.00000001	0.00000094
8	Yes	4	0.00000001	0.00000379
9	Yes	4	0.00000001	0.00000268
10	Yes	4	0.00000001	0.00000212
11	Yes	4	0.00000001	0.00000050
12	Yes	4	0.00000001	0.00000388
13	Yes	4	0.00000001	0.00000282
14	Yes	4	0.00000001	0.00000294
15	Yes	4	0.00000001	0.00000086
16	Yes	4	0.00000001	0.00000418
17	Yes	4	0.00000001	0.00000310
18	Yes	4	0.00000001	0.00000213
19	Yes	4	0.00000001	0.00000052
20	Yes	4	0.00000001	0.00000383
21	Yes	4	0.00000001	0.00000275
22	Yes	4	0.00000001	0.00000317
23	Yes	4	0.00000001	0.00000093
24	Yes	4	0.00000001	0.00000399
25	Yes	4	0.00000001	0.00000289
26	Yes	4	0.00000001	0.00000001
27	Yes	4	0.00000001	0.00004060
28	Yes	4	0.00000001	0.00004063
29	Yes	4	0.00000001	0.00004070
30	Yes	4	0.00000001	0.00004057
31	Yes	4	0.00000001	0.00004068
32	Yes	4	0.00000001	0.00004084
33	Yes	4	0.00000001	0.00004096
34	Yes	4	0.00000001	0.00004063
35	Yes	4	0.00000001	0.00004035
36	Yes	4	0.00000001	0.00004024
37	Yes	4	0.00000001	0.00004044
38	Yes	4	0.00000001	0.00004051
39	Yes	4	0.00000001	0.00000237
40	Yes	4	0.00000001	0.00000249
41	Yes	4	0.00000001	0.00000258
42	Yes	4	0.00000001	0.00000249
43	Yes	4	0.00000001	0.00000238
44	Yes	4	0.00000001	0.00000248
45	Yes	4	0.00000001	0.00000257
46	Yes	4	0.00000001	0.00000249
47	Yes	4	0.00000001	0.00000238
48	Yes	4	0.00000001	0.00000249
49	Yes	4	0.00000001	0.00000257
50	Yes	4	0.00000001	0.00000248

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	255.3 - 240	16.375	39	0.6457	0.0127
T2	240 - 220	14.295	39	0.6342	0.0127
T3	220 - 200	11.678	39	0.5677	0.0127
T4	200 - 180	9.389	39	0.4944	0.0094
T5	180 - 160	7.406	39	0.4252	0.0065

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T6	160 - 140	5.738	39	0.3494	0.0047
T7	140 - 120	4.334	39	0.2974	0.0034
T8	120 - 100	3.144	39	0.2444	0.0023
T9	100 - 80	2.188	39	0.1905	0.0016
T10	80 - 60	1.423	39	0.1527	0.0010
T11	60 - 40	0.830	39	0.1144	0.0007
T12	40 - 20	0.394	39	0.0762	0.0004
T13	20 - 0	0.115	39	0.0380	0.0002

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
250.00	42,000 sq in CaAa	39	15.652	0.6444	0.0126	229114
239.00	30,000 sq in CaAa	39	14.159	0.6322	0.0127	57477
229.00	30,000 sq in CaAa	39	12.826	0.6024	0.0129	19118
215.00	6' Solid w/Radome	39	11.073	0.5485	0.0121	12861

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	255.3 - 240	49.585	2	1.9659	0.0391
T2	240 - 220	43.252	2	1.9304	0.0391
T3	220 - 200	35.292	2	1.7262	0.0392
T4	200 - 180	28.335	2	1.5010	0.0292
T5	180 - 160	22.318	2	1.2888	0.0200
T6	160 - 140	17.269	2	1.0568	0.0146
T7	140 - 120	13.029	2	0.8984	0.0105
T8	120 - 100	9.441	2	0.7371	0.0071
T9	100 - 80	6.563	2	0.5737	0.0050
T10	80 - 60	4.263	2	0.4592	0.0032
T11	60 - 40	2.482	2	0.3438	0.0022
T12	40 - 20	1.175	2	0.2287	0.0014
T13	20 - 0	0.341	2	0.1141	0.0006

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
250.00	42,000 sq in CaAa	2	47.386	1.9618	0.0389	74513
239.00	30,000 sq in CaAa	2	42.841	1.9242	0.0392	18712
229.00	30,000 sq in CaAa	2	38.783	1.8327	0.0400	6234
215.00	6' Solid w/Radome	2	33.452	1.6671	0.0375	4191

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Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	255.3 - 240	P2x.154	15.30	5.07	77.3 K=1.00	1.0745	-13754.20	31228.70	0.440 ¹ ✓
T2	240 - 220	P3x.216	20.00	6.67	68.8 K=1.00	2.2285	-70029.50	70976.60	0.987 ¹ ✓
T3	220 - 200	P5x.258	20.02	6.67	42.6 K=1.00	4.2999	-131206.00	169405.00	0.775 ¹ ✓
T4	200 - 180	P6x.28	20.02	6.67	35.7 K=1.00	5.5813	-178295.00	228860.00	0.779 ¹ ✓
T5	180 - 160	P6x.28	20.02	6.67	35.7 K=1.00	5.5813	-218795.00	228860.00	0.956 ¹ ✓
T6	160 - 140	P8x.322	20.02	6.67	27.3 K=1.00	8.3993	-256025.00	357982.00	0.715 ¹ ✓
T7	140 - 120	P8x.322	20.02	6.67	27.3 K=1.00	8.3993	-291183.00	357982.00	0.813 ¹ ✓
T8	120 - 100	P8x.322	20.02	10.01	40.9 K=1.00	8.3993	-321482.00	334481.00	0.961 ¹ ✓
T9	100 - 80	P10x.365	20.02	10.01	32.7 K=1.00	11.9083	-353612.00	495588.00	0.714 ¹ ✓
T10	80 - 60	P10x.365	20.02	10.01	32.7 K=1.00	11.9083	-385727.00	495588.00	0.778 ¹ ✓
T11	60 - 40	P10x.365	20.02	10.01	32.7 K=1.00	11.9083	-417059.00	495588.00	0.842 ¹ ✓
T12	40 - 20	P10x.365	20.02	10.01	32.7 K=1.00	11.9083	-447706.00	495588.00	0.903 ¹ ✓
T13	20 - 0	P10x.365	20.02	10.01	32.7 K=1.00	11.9083	-477330.00	495588.00	0.963 ¹ ✓

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	255.3 - 240	L2x2x1/8	8.24	4.00	120.6 K=1.00	0.4844	-3613.93	9524.39	0.379 ¹ ✓
T2	240 - 220	L2x2x3/16	9.31	4.45	135.4 K=1.00	0.7150	-10745.20	11157.80	0.963 ¹ ✓
T3	220 - 200	L2x2x3/16	10.22	4.97	151.4 K=1.00	0.7150	-7640.47	8927.43	0.856 ¹ ✓
T4	200 - 180	L2x2x3/16	11.40	5.52	168.0	0.7150	-6984.70	7252.55	0.963 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T5	180 - 160	L2 1/2x2 1/2x3/16	12.65	6.15	K=1.00 149.0	0.9020	-6861.98	11624.40	0.590 ¹
T6	160 - 140	L2 1/2x2 1/2x3/16	13.95	6.71	K=1.00 162.6	0.9020	-6930.23	9765.99	0.710 ¹
T7	140 - 120	L2 1/2x2 1/2x3/16	15.28	7.38	K=1.00 178.9	0.9020	-7010.69	8064.89	0.869 ¹
T8	120 - 100	L3x3x3/16	18.13	8.86	K=1.00 178.4	1.0900	-8150.17	9802.35	0.831 ¹
T9	100 - 80	L3x3x3/16	19.40	9.40	K=1.00 189.2	1.0900	-8237.38	8714.93	0.945 ¹
T10	80 - 60	L3 1/2x3 1/2x1/4	20.70	10.05	K=1.00 173.8	1.6900	-8688.05	16007.00	0.543 ¹
T11	60 - 40	L3 1/2x3 1/2x1/4	22.03	10.72	K=1.00 185.4	1.6900	-9083.78	14075.10	0.645 ¹
T12	40 - 20	L3 1/2x3 1/2x1/4	23.37	11.40	K=1.00 197.1	1.6900	-9437.58	12452.10	0.758 ¹
T13	20 - 0	L4x4x1/4	24.74	12.08	K=1.00 182.4	1.9400	-10431.40	16689.80	0.625 ¹

¹ P_u / φP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	255.3 - 240	L2x2x1/8	6.50	6.30	K=1.00 190.2	0.4844	-1238.72	3831.03	0.323 ¹

¹ P_u / φP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	255.3 - 240	P2x.154	15.30	5.07	77.3	1.0745	9728.31	48353.90	0.201 ¹
T2	240 - 220	P3x.216	20.00	6.67	68.8	2.2285	59823.70	100281.00	0.597 ¹
T3	220 - 200	P5x.258	20.02	6.67	42.6	4.2999	117773.00	193494.00	0.609 ¹

<i>tnxTower</i> <i>Nello Corporation</i> 1201 S. Sheridan Street South Bend, IN 46619 Phone: 800-806-3556 FAX:	Job	SO33656; Tower 802836; Foundation 802837	Page	51 of 53
	Project	NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date	13:03:29 08/01/25
	Client	The Towers, LLC	Designed by	AJK

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T4	200 - 180	P6x.28	20.02	6.67	35.7	5.5813	161325.00	251161.00	0.642 ¹
T5	180 - 160	P6x.28	20.02	6.67	35.7	5.5813	198329.00	251161.00	0.790 ¹
T6	160 - 140	P8x.322	20.02	6.67	27.3	8.3993	231438.00	377967.00	0.612 ¹
T7	140 - 120	P8x.322	20.02	6.67	27.3	8.3993	262415.00	377967.00	0.694 ¹
T8	120 - 100	P8x.322	20.02	10.01	40.9	8.3993	289106.00	377967.00	0.765 ¹
T9	100 - 80	P10x.365	20.02	10.01	32.7	11.9083	316451.00	535873.00	0.591 ¹
T10	80 - 60	P10x.365	20.02	10.01	32.7	11.9083	343325.00	535873.00	0.641 ¹
T11	60 - 40	P10x.365	20.02	10.01	32.7	11.9083	369296.00	535873.00	0.689 ¹
T12	40 - 20	P10x.365	20.02	10.01	32.7	11.9083	394470.00	535873.00	0.736 ¹
T13	20 - 0	P10x.365	20.02	10.01	32.7	11.9083	418356.00	535873.00	0.781 ¹

¹ P_u / φP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	255.3 - 240	L2x2x1/8	8.24	4.00	76.6	0.3633	3739.77	17710.00	0.211 ¹
T2	240 - 220	L2x2x3/16	9.31	4.45	86.5	0.5363	10404.20	26142.20	0.398 ¹
T3	220 - 200	L2x2x3/16	9.85	4.79	93.1	0.5363	7880.92	26142.20	0.301 ¹
T4	200 - 180	L2x2x3/16	10.61	5.12	99.7	0.5363	7125.68	26142.20	0.273 ¹
T5	180 - 160	L2 1/2x2 1/2x3/16	11.81	5.73	88.4	0.6765	6700.82	32979.40	0.203 ¹
T6	160 - 140	L2 1/2x2 1/2x3/16	13.95	6.71	103.4	0.6765	6697.55	32979.40	0.203 ¹
T7	140 - 120	L2 1/2x2 1/2x3/16	14.83	7.16	110.4	0.6765	6868.45	32979.40	0.208 ¹
T8	120 - 100	L3x3x3/16	18.13	8.86	113.2	0.8175	7690.92	39853.10	0.193 ¹
T9	100 - 80	L3x3x3/16	19.40	9.40	120.1	0.8175	7847.64	39853.10	0.197 ¹
T10	80 - 60	L3 1/2x3 1/2x1/4	20.70	10.05	110.7	1.2675	8347.61	61790.60	0.135 ¹
T11	60 - 40	L3 1/2x3 1/2x1/4	22.03	10.72	118.0	1.2675	8668.25	61790.60	0.140 ¹

tnxTower Nello Corporation 1201 S. Sheridan Street South Bend, IN 46619 Phone: 800-806-3556 FAX:	Job	SO33656; Tower 802836; Foundation 802837	Page	52 of 53
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	Client	The Towers, LLC	Designed by	AJK

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T12	40 - 20	L3 1/2x3 1/2x1/4	23.37	11.40	125.5	1.2675	8956.45	61790.60	0.145 ¹ ✓
T13	20 - 0	L4x4x1/4	24.74	12.08	116.0	1.4550	9647.35	70931.30	0.136 ¹ ✓

¹ P_u / φP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u lb	φP _n lb	Ratio $\frac{P_u}{\phi P_n}$
T1	255.3 - 240	L2x2x1/8	6.50	6.30	120.8	0.3633	1155.81	17710.00	0.065 ¹ ✓

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P lb	φP _{allow} lb	% Capacity	Pass Fail
T1	255.3 - 240	Leg	P2x.154	3	-13754.20	31228.70	44.0	Pass
		Diagonal	L2x2x1/8	10	-3613.93	9524.39	37.9	Pass
		Top Girt	L2x2x1/8	6	-1238.72	3831.03	32.3	Pass
T2	240 - 220	Leg	P3x.216	27	-70029.50	70976.60	98.7	Pass
		Diagonal	L2x2x3/16	32	-10745.20	11157.80	96.3	Pass
T3	220 - 200	Leg	P5x.258	48	-131206.00	169405.00	77.5	Pass
		Diagonal	L2x2x3/16	52	-7640.47	8927.43	85.6	Pass
T4	200 - 180	Leg	P6x.28	69	-178295.00	228860.00	77.9	Pass
		Diagonal	L2x2x3/16	73	-6984.70	7252.55	96.3	Pass
T5	180 - 160	Leg	P6x.28	90	-218795.00	228860.00	95.6	Pass
		Diagonal	L2 1/2x2 1/2x3/16	94	-6861.98	11624.40	59.0	Pass
T6	160 - 140	Leg	P8x.322	111	-256025.00	357982.00	71.5	Pass
		Diagonal	L2 1/2x2 1/2x3/16	115	-6930.23	9765.99	71.0	Pass
T7	140 - 120	Leg	P8x.322	132	-291183.00	357982.00	81.3	Pass
		Diagonal	L2 1/2x2 1/2x3/16	136	-7010.69	8064.89	86.9	Pass
T8	120 - 100	Leg	P8x.322	153	-321482.00	334481.00	96.1	Pass
		Diagonal	L3x3x3/16	157	-8150.17	9802.35	83.1	Pass
T9	100 - 80	Leg	P10x.365	168	-353612.00	495588.00	71.4	Pass
		Diagonal	L3x3x3/16	172	-8237.38	8714.93	94.5	Pass
T10	80 - 60	Leg	P10x.365	183	-385727.00	495588.00	77.8	Pass
		Diagonal	L3 1/2x3 1/2x1/4	187	-8688.05	16007.00	54.3	Pass
T11	60 - 40	Leg	P10x.365	198	-417059.00	495588.00	84.2	Pass
		Diagonal	L3 1/2x3 1/2x1/4	202	-9083.78	14075.10	64.5	Pass
T12	40 - 20	Leg	P10x.365	213	-447706.00	495588.00	90.3	Pass
		Diagonal	L3 1/2x3 1/2x1/4	217	-9437.58	12452.10	75.8	Pass
T13	20 - 0	Leg	P10x.365	228	-477330.00	495588.00	96.3	Pass
		Diagonal	L4x4x1/4	232	-10431.40	16689.80	62.5	Pass

Summary

<i>tnxTower</i> <i>Nello Corporation</i> <i>1201 S. Sheridan Street</i> <i>South Bend, IN 46619</i> <i>Phone: 800-806-3556</i> <i>FAX:</i>	Job	SO33656; Tower 802836; Foundation 802837	Page	53 of 53
	Project	NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY	Date	13:03:29 08/01/25
	Client	The Towers, LLC	Designed by	AJK

<i>Section No.</i>	<i>Elevation ft</i>	<i>Component Type</i>	<i>Size</i>	<i>Critical Element</i>	<i>P lb</i>	<i>ϕP_{allow} lb</i>	<i>% Capacity</i>	<i>Pass Fail</i>
						Leg (T2)	98.7	Pass
						Diagonal (T4)	96.3	Pass
						Top Girt (T1)	32.3	Pass
						RATING =	98.7	Pass

Drilled Pier Foundation Design

Order/Quote Number: SO33656
Part Number: 802837
Tower Model: NSX 23' x 255.3'
Company: The Towers, LLC
Site: NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY



Tower Reactions (Factored)

Leg Compression:	485.451 kips
Leg Uplift:	424.647 kips
Leg Shear:	36.588 kips
Tower Shear:	57.182 kips
Tower Moment:	9214.230 ft-kips
Tower Weight:	68.570 kips

Foundation Design Reactions

Additional Load Factor:	1.00
Compression:	485.451 kips
Uplift:	424.647 kips
Shear:	36.588 kips

TIA-222-H 9.7

ANSI/TIA-222-H - Design Factors

Uplift Resistance Factor, Phi:	0.75
Compressive Resistance Factor, Phi:	0.75
Bearing Capacity Resistance, Phi:	0.75
Lateral Resistance Factor, Phi:	0.75

Foundation Dimensions

Pier Diameter:	4.5 ft
Pier Extension:	0.5 ft
Pier Depth:	29 ft
Total Pier Length:	29.5 ft
Volume per Pier:	17.4 yd³
Total Volume:	52.1 yd³

Site Details

Rock Depth:	20.8 ft
Frost Depth:	2.5 ft
Water Depth:	15 ft
Upper Pier Neglected:	4.5 ft
Minimum Pier Depth:	ft
Soil Induced Uplift Load:	kips
Seismic Site Class:	D TIA-222-H 5-10
Mapped Response Acc., S _{MS} :	0.173 g
Design Response Acc., S _{DS} :	0.185 g
Design Response Acc., S _{DI} :	0.149 g
Seismic Design Category:	C
Soil Corrosion Risk:	Moderate
Soil Weight:	110 pcf

Foundation LPILE Loads (Divided by Φ_p)

Shear Load:	48,784 lb
Moment Load:	0 lb-in
Axial Load:	647,268 lb

Tower Dimensions

Tower Base Width:	23 ft
Base Leg Diameter (Nom.):	10 in
Base Leg Member:	Pipe
Bracing System:	X-Braced

Material Specifications

Concrete Strength:	4500 psi
Concrete Weight:	150 pcf
Rebar Yield Strength:	60 ksi
Clear Cover:	3 in
Clear Cover (Top of Pier):	3 in

Geotechnical Report

Company:	Delta Oaks Group
Date:	6/25/2025
Project:	GEO25-26108-08

Summary Check

Uplift:	OK	98.4%
Uplift Cone Check:	OK	43.1%
Compression:	OK	64.0%
Minimum 3 Pier Diameter Spacing:	OK	
Max Pier Length / Diameter Ratio:	OK	
Neglect Frost Depth:	OK	
Neglect Top Portion of Pier:	OK	
Minimum Depth:	OK	
Pier Compressive Strength:	OK	10.6%
Pier Tensile Strength:	OK	47.4%
Minimum Vertical Reinforcement:	OK	
Rebar Strength:	OK	
Rebar Spacing:	OK	
Compressive Shear:	OK	
Anchor Bolt Strength:	OK	80.0%
Anchor Bolt Development:	OK	
Embedment Plate Fit:	OK	
Seismic Lateral Restraint:	OK	

Max. Foundation Capacity Rating

98.4%

Compression/Uplift Resistance Design

Layer	Depth (ft)	Depth (ft)	Length (ft)	Diameter (ft)	Allowable Skin Friction				Ultimate Skin Friction				Net Concrete Weight ⁽¹⁾			Friction Resistance			
					Uplift		Compression		Uplift		Compression		Weight	Compression	Uplift	Ultimate Bearing		Uplift	Comp.
					(ksf)	Safety Factor	(ksf)	Safety Factor	(ksf)	(kips)	(ksf)	(kips)	(pcf)	(kips)	(kips)	(ksf)	(kips)	(kips)	(kips)
1	-0.5	0	0.5	4.5	0.000	1.0	0.000	1.0	0.000	0.00	0.000	0.00	150	1.19	1.19	43.36	1.0	0.00	0.00
2	0	4.5	4.5	4.5	0.000	1.0	0.000	1.0	0.000	0.00	0.000	0.00	150	2.86	10.74	43.36	1.0	0.00	0.00
3	4.5	6	1.5	4.5	0.820	1.0	0.820	1.0	0.820	17.39	0.820	17.39	150	0.95	3.58	0.00	0.00	17.39	17.39
4	6	9	3	4.5	0.880	1.0	0.880	1.0	0.880	37.32	0.880	37.32	150	1.91	7.16	0.00	0.00	37.32	37.32
5	9	14	5	4.5	2.040	1.0	2.040	1.0	2.040	144.20	2.040	144.20	150	3.18	11.93	0.00	0.00	144.20	144.20
6	14	19	5	4.5	0.440	1.0	0.440	1.0	0.440	31.10	0.440	31.10	87.6	3.18	7.96	0.00	0.00	31.10	31.10
7	19	20.8	1.8	4.5	0.750	1.0	1.010	1.0	0.750	19.09	1.010	25.70	87.6	1.15	2.51	0.00	0.00	19.09	25.70
8	20.8	26.2	5.4	4.5	2.190	1.0	2.190	1.0	2.190	167.19	2.190	114.55	87.6	3.44	7.52	0.00	0.00	167.19	114.55
9	26.2	29	2.8	4.5	2.310	1.0	2.310	1.0	2.310	91.44	2.310	0.00	87.6	1.78	3.90	0.00	0.00	91.44	0.00
10	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
11	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
12	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
13	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
14	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
15	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
16	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
17	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
18	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
19	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
20	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
21	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	0.00	0.00	0.00	0.00
22	29	29	0	4.5	0.00	0.0	0.000	0.0	0.000	0.00	0.000	0.00	87.6	0.00	0.00	43.36	689.61	0.00	689.61
Total										507.72		370.27		19.64	56.48		689.61	431.63	794.91
																		OK	OK
																		98.4%	64.0%

Extended Pier:

Uplift Cone Resistance - Weight of Soil Cone

Prominent Subsurface Material Type:

Cohesionless Soil / Rock

Pier	Pier	Pier	Pier	Pier	Friction	Soil	Cone Frustum				Soil	Soil	Uplift
Depth (ft)	Depth (ft)	Diameter (ft)	Volume (ft³)	Weight (kips)	Angle (deg)	Weight (kcf)	Height (ft)	Radius (ft)	Radius (ft)	Volume (ft³)	Volume (ft³)	Weight (kips)	Capacity (kips)
0	4.5	4.5	71.57	10.74	0	0.110	4.50	16.40	16.40	3800	3728	410.13	315.65
4.5	29	4.5	389.66	58.45	30	0.110	24.50	2.25	16.40	7973	7583	834.14	669.44
29	29	4.5	0.00	0.00	30	0.110	0.00	2.25	2.25	0	0	0.00	0.00
												OK	985.09

Vertical Reinforcement Design

Number of Bars	Bar Size	Bar Length (in)	Bar Diameter (in)	Bar Weight (lb/ft)	Total Bar Weight (lb)	Bar Area (sq in)	Total Bar Area (sq in)	Minimum Bar Area Required (sq in)	Rebar Circle Diameter (in)	Ctr-Ctr Spacing (in)	Clear Spacing (in)	Equivalent Pipe				Induced Moment (ft-kips)*	Induced Stress (ksi)	Design Stress (ksi)
												Outer Diameter (in)	Inner Diameter (in)	Thickness (in)	Modulus (in² 3)			
21	8	348	1.000	2.670	1626	0.79	16.59	11.45	45.750	6.8	5.8	45.87	45.63	0.231	189.3	387.56	50.17	54

Pier Axial Strength - Compression and Tension

Pier Gross Area (in ²)	Nominal Compressive Strength (kip)	Compressive		Misload Overload Factor	Check Compressive Strength Ratio	Nominal Tensile Strength (kip)	Tensile		Design Tensile Strength (kip)	Check Tensile Strength Ratio	
		Strength Reduction Factor	Design Compressive Strength (kip)				Strength Reduction Factor	Tensile Strength (kip)			
2290.22	9692.04	0.65	6309.86	1.10	0.106	995.40	0.90	895.86	0.474		
ADC318-22-4.2.2 318-14 1033-2.2					OK	318-14 99.45 403 318-14 Table 21.2					OK

ACI-318-14 22.4.2.2-318-14 Table 21C-318-14 22.4.2.1

318-14 22.4.3.3-318-14 Table 21-2.2

Development Length - Vertical Rebar

Bar Size	Reinf. Location Factor, α	Coating Factor, β	Reinf. Size Factor, γ	Lightwt. Aggregate Factor, λ	Spacing or Cover, c (in)	Transverse Reinf. Index, K _{tr}	Develop. Length l _d (in)
8	1.0	1.0	1.0	1.0	3.42	0.0	26.8

ACI-318-14 25.4.2-4318-14 Table 25-4318-14 Table 25.4.2.4

ACI-318-14 25.4.318-14 Table 25.4.2.2

Tie Reinforcement Design

Number of Bars	Bar Size	Bar Diameter (in)	Bar Weight (lb/ft)	Total Bar Weight (lb)	Bar Area (sq in)	Overlap Length (in)	Total Length (in)	Zone	Maximum Tie Spacing (in)	Zone Distance (in)	Number of Tie Spaces	Actual Tie Spacing (in)	Number of Ties per Zone	Standard Applied	Confinement Applied
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38	5	0.625	1.043	555	0.31	19.0	168.0	End	1.625	1.625	1	1 10/16	2	
								Top	6	72	12	6	12	
								Middle	12	268.75	23	11 11/16	22	
								End	5	5	1	5	2	
						-	-							

ACI-318-14 2.3

Shear (Compression)

Distance to Max. Shear $d_{maxshear}$ (in)	Compressive Shear V (kip)	Factored Axial Force N_u (lb)	Distance to Tension Reinf. d (in)	Ratio of A_s to $b_w d$ ρ_w	Concrete Weight W_c (lb)	Pier Gross Area A_g (in ²)	Nom. Strength Concrete V_c (kip)	Minimum Bar Area A_{smin} (in ²)	Total Bar Area A_s (in ²)	Nom. Strength Reinforcement V_s (kip)	Des. Shear Strength ϕV_n (kip)	Factored Axial Force N_u (lb)	Nom. Shear Concrete V_c (kip)	Des. Shear Strength ϕV_n (kip)
	41.66	485451	43.200	0.007	0.000	2290.221	346.148	0.000	0.620	267.840	460.491	424647	196.915	348.566
ACI-318-14 22.5.1		ACI-318-14 2.2		ACI-318-14 22.5.6		ACI-318-14 22.5.6		ACI-318-14 18		ACI-318-14 22.5.1		ACI-318-14 22.5.1		ACI-318-14 22.5.1
								OK						OK
														9.0%
														12.0%

Shear (Uplift)

Splice Length - Ties

Bar Size	Reinf. Location Factor, α	Coating Factor, β	Reinf. Size Factor, γ	Lightwt. Aggregate Factor, λ	Spacing or Cover, c (in)	Transverse Reinf. Index, K_r	Development Length l_d (in)	Splice Length Tolerance (in)	Splice Length $1.3 \cdot l_d$ (in)
5	1.0	1.0	0.8	1.0	3.31	0.0	13.4	1.0	18.4
ACI-318-14 25.4.2, 4.318-14 Table 25.4.2.1		ACI-408-03- 4.5.2 318-14 Table 25.4.2.4		ACI-318-14 25.4.2.5 318-14 Table 25.4.2.2		ACI-318-14 25.4.2.5 318-14 Table 25.4.2.2		ACI-318-14 Table 25.5.2.1	

Anchor Bolts and Embedment Plate

Number of Bolts	Bolt Diameter (in)	Bolt Length (in)	Anchor Bolt P/N	Bolt Projection (in)	Projection Tolerance Above (in)	Projection Tolerance Below (in)	Plate P/N	Plate O.D. / Width	Plate I.D.	Bolt Circle Diameter (in)	Plate Thickness (in)
10	1.00	60	102970	5.75	0.1875	-0.25	139914	16.75	11.75	14.25	0.5
Std. Pattern											

Anchor Bolt Design

Bolt Threads per Inch	Gross Area (in ²)	Bolt Net Area (in ²)	Bolt Yield Strength (ksi)	Ultimate Tensile Stress (ksi)	Bolt Resistance Factor	Bolt Nominal Tensile Strength (kip)	Bolt Design Tensile Strength (kip)	Nominal Shear Rupture Strength (kip)	Nominal Compressi on Yield Strength (kip)	Nominal Shear Yield Strength (kip)	Anchor Bolt Interaction Equation	Anchor Bolt Embedded Length (in)	Rebar Engaged by Bolts (in)	Length Required (in)	Gap Between Rebar & Plate (in)
8	0.785	0.606	105	125	0.75	75.718	56.788	49.087	63.603	19.081	0.800	54.06	32.31	26.83	14.00
TIA-222-H 4.9.8.1		TIA-222-H 4.9.9		TIA-222-H 4.9.9		TIA-222-H 4.9.9	TIA-222-H 4.9.9	TIA-222-H 4.9.9	TIA-222-H 4.9.9	TIA-222-H 4.9.9	OK 80.0%		OK		OK
TIA-222-H 4.9.9															

Notes

- Foundation design is based on the Geotechnical Report dated 06/25/2025, by Delta Oaks Group; Project No. GEO25-26108-08.
- Groundwater may be encountered at 15 feet bgs at this site based on the geotechnical investigation. The need for dewatering should be anticipated below this depth.
- All foundation concrete shall be in accordance with the latest ACI-318 exposure class requirements for corrosive soils.
- Rock conditions were encountered about 20.8 feet bgs in the geotechnical investigation.

SST Drilled Pier Foundation Design Summary

Max. Foundation Capacity Rating:	98.4%
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FOUNDATION DIMENSIONS	
Tower Width:	23 ft
Pier Extension:	0.5 ft
Pier Depth:	29 ft
Pier Diameter:	4.5 ft
Clear Cover:	3 in
Clear Cover (Top of Pier):	3 in
Volume per Pier:	17.4 yd ³
Total Volume:	52.1 yd ³

PIER REINFORCEMENT	
Bar Size:	8
Bar Length:	348 in
On Center Spacing:	6.8 in
Quantity per Pier:	21
Total Quantity:	63
Weight per Pier:	1626 lbs
Total Weight:	4878 lbs

TIE REINFORCEMENT	
Bar Size:	5
Bar Length:	168 in
Circular Tie Outer Diameter:	48 in
Overlap:	19 in
Tie Termination Type:	Overlap
Quantity per Pier:	38
Total Quantity:	114
Top Zone - Quantity:	2
Top Zone - Spacing:	1.625 in
Anchor Zone - Quantity:	12
Anchor Zone - Spacing:	6 in
Middle Zone - Quantity:	22
Middle Zone - Spacing:	11.6875 in
Bottom Zone - Quantity:	2
Bottom Zone - Spacing:	5 in
Weight per Pier:	555 lbs
Total Weight:	1665 lbs

TOWER REACTIONS	
Leg Compression:	485.5 kip
Leg Uplift:	424.6 kip
Leg Shear:	36.6 kip
Tower Shear:	57.2 kip
Tower Moment:	9214.2 ft-kip
Tower Weight:	68.6 kip

MATERIAL SPECIFICATIONS	
Concrete Strength:	4500 psi
Concrete Weight:	150 pcf
Rebar Yield Strength:	60 ksi

ANCHORING DETAILS	
Anchor P/N:	102970
Anchor Diameter:	1 in
Anchor Length:	60 in
Anchor Quantity per Leg:	10
	Std. Pattern
Anchor Projection:	5.75 in
	+ 0.1875" -0.25"
Bolt Circle Diameter:	14.25 in
Template P/N	139914

BACKFILL CRITERIA (NON-STRUCTURAL)	
Loose Lift Thickness:	8 in
Percent Compaction:	95%
ASTM Standard:	D698
Optimum Moisture Content:	2%
	-2%

ECO #:	
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ADDITIONAL NOTES

- Foundation design is based on the Geotechnical Report dated 06/25/2025, by Delta Oaks Group; Project No. GEO25-26108-08.
- Groundwater may be encountered at 15 feet bgs at this site based on the geotechnical investigation. The need for dewatering should be anticipated below this depth.
- All foundation concrete shall be in accordance with the latest ACI-318 exposure class requirements for corrosive soils.
- Rock conditions were encountered about 20.8 feet bgs in the geotechnical investigation.

Combined Foundation Design

Order/Quote Number: **SO33656**
 Part Number: **802837**
 Tower Model: **NSX 23' x 255.3'**
 Company: **The Towers, LLC**
 Site: **NS 255.3' - US-KY-5213 / Crockets Trail - Casey Co., KY**

Tower Reactions (Factored)	
Shear:	57.182 kips
Moment:	9214.230 ft-kips
Weight:	68.570 kips
Leg Compression:	485.451 kips
Leg Uplift:	424.647 kips
Leg Shear:	36.588 kips

Site Details	
Soil Type:	Clay
Soil Unit Weight (Backfill):	110 pcf
Allowable Bearing Pressure:	3880 psf
Factor of Safety:	1
Ultimate Bearing Pressure:	3,880 psf
Bearing Pressure Type:	Net Bearing Pressure
Angle of Internal Friction:	0 degrees
Cohesion:	600 psf
Sliding Friction Coefficient:	0.35
Frost Depth (Neglected):	2.5 ft
Min. Bearing Depth:	3 ft
Water Depth:	15 ft
Rock Depth:	20.8 ft
Passive Pressure Coefficient:	1.00
Active Pressure Coefficient:	1.00

Design Dimensions	
Tower Base Width:	23 ft
Base Leg Diameter (Nominal):	10 in
Base Leg Member:	
Tower Bracing System:	
Pier Extension:	0.5 ft
Pier Diameter:	5 ft
Depth:	7.5 ft
Pad Thickness:	1.5 ft
Pad Width:	32 ft
Tower Offset:	<input checked="" type="checkbox"/> Tower Center is Offset
Eccentricity:	3.32 ft
Distance Between Piers:	19.92 ft
Edge 1	4.50 ft
Edge 2	6.04 ft
Edge 3	6.04 ft
Soil Corrosion Risk:	Moderate

Weight

Concrete Pad Volume (cubic yd)	Concrete Pier Volume (cubic yd)	Total Concrete Volume (cubic yd)	Concrete Weight (kips)	Soil Volume (cubic yd)	Soil Weight (kips)	Soil Weight Removed (kips)	Total Dead Load (kips)	Total Factored Dead Load (LC:0.9D controls) (kips)
56.89	4.73	71.07	287.83	214.47	636.96	844.80	976.22	883.74

Lateral Capacity

Minimum Depth Required (ft)	Soil Unit Weight Below GWT (pcf)	Ultimate Passive Pressure						Ultimate Active Pressure			
		@ Depth Neglected (ksf)	@ Top of Footing (ksf)	@ Bottom of Footing (ksf)	@ Top of Pressure Zone (ksf)	@ GWT (ksf)	Average (ksf)	@ Top of Footing (ksf)	@ Bottom of Footing (ksf)	@ GWT (ksf)	Average (ksf)
3	47.6	1.53	1.86	2.03	1.86	2.85	1.94	0.00	0.00	0.45	0.00
OK											

Effective Pad Thickness (ft)	Effective Pad Area (sq ft)	Nominal Passive Resistance (kips)	Nominal Active Loading (kips)	Nominal Friction Resistance (kips)	Design Lateral Resistance (kips)
1.5	48	93.24	0.00	341.68	328.19
					OK
					17.5%

Overturning

Weight of Soil Wedge on Back Face (kips)	Moment Resistance From Weight (ft-kips)	Moment Resistance from Soil Wedge (ft-kips)	Moment Resistance from Passive Pressure (ft-kips)	Moment Loading from Active Pressure (ft-kips)	Overturning Moment (ft-kips)	Design Overturning Resistance (ft-kips)	Maximum Eccentricity (LC: 0.9D) (ft)
0.00	13969.16	0.00	46.62	0.00	9842.41	14004.13	11.1
						OK	OK
						70.3%	77.3%

Bearing Pressure

Solve for Min. Pressure							0.000 This Cell = 0 when spreadsheet is solved.					
Case 1: Entire Mat is in Positive Bearing			Case 2: Back Edge of Mat is Uplifting				Maximum Gross Bearing Pressure (ksf)	Maximum Net Bearing Pressure (ksf)	Width of Bearing Section ft	Net Bearing Pressure at Pier 1 (ksf)	Net Bearing Pressure at Pier 2 (ksf)	Maximum Bearing Pressure (ksf)
Minimum Pressure (ksf)	Maximum Pressure (ksf)	Entire Mat is in Positive Bearing (TRUE/FALSE)	Adjusted Bearing Width (ft)	Minimum Pressure (ksf)	Maximum Pressure (ksf)	Back Edge of Mat is Uplifting (TRUE/FALSE)						
-0.87	2.78	FALSE	17.23	0.00	3.54	TRUE	3.54	2.72	17.23	1.37	0.00	2.72
												OK
												93.3%

Pad Reinforcement Design

Flexural Strength Reduction Factor = 0.9										
Number of Bars	Bar Size	Bar Length (in)	Bar Diameter (in)	Bar Weight (lb/ft)	Total Bar Weight (lb)	Bar Area (sq in)	Total Bar Area per Layer per Direction (sq in)	Minimum Bar Area Required (sq in)	Ctr-Ctr Spacing (in)	Clear Spacing (in)
48	9	378	1.13	3.40	20563	1.00	48.00	6.22	8.0	6.9
							OK		OK	OK
									Constructability:	OK

Foundation Design Reactions

Additional Load Factor:	1.00
Shear:	57.182 kips
Moment:	9214.230 ft-kips
Weight:	68.570 kips
Compression:	485.451 kips
Uplift:	424.647 kips
Individual Shear:	36.588 kips

Geotechnical Report	
Company:	Delta Oaks Group
Date:	6/25/2025
Project:	GEO25-26108-08
Seismic Site Class:	D
Design Response Acc., S_{DS} :	0.185 g
Design Response Acc., S_{D1} :	0.149 g
Seismic Design Category:	C

Material Specifications

Concrete Unit Weight:	150 pcf
Concrete Strength:	4500 psi
Rebar Yield Strength:	60 ksi
Clear Cover:	3 in
Clear Cover (Top of Pier):	3 in
Clear Cover Tolerance, +/- (Top of Piers):	1 in

Development Length Requirements

Pad Reinforcement Location Factor:	1.0
Pier Reinforcement Location Factor:	1.0
Coating Factor:	1.0
Lightweight Concrete Factor:	1.0
Transverse Reinforcement Index:	0.0 in
Pad Development Length Reduction:	<input type="checkbox"/> No Reduction
Compressive Development Length Red:	<input checked="" type="checkbox"/> Yes: Utilize Reduction
Tension Development Length Reduction:	<input type="checkbox"/> No Reduction
Pad Ties Development Length Reduction:	<input type="checkbox"/> No Ties in Pad

Maximum Foundation Capacity Rating: 97.2%



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 South Bend, IN 46619
 574-288-3632 (phone)
 574-288-5860 (fax)
 www.nelloinc.com

ANSI/TIA-222-H - Design Factors

Uplift Resistance Factor, Phi:	0.75
Compressive Resistance Factor, Phi:	0.75
Bearing Capacity Resistance, Phi:	0.75
Lateral Resistance Factor, Phi:	0.75

Summary Check

Minimum Depth:	OK
Lateral Check:	OK
Overturning Check:	OK
Maximum Eccentricity Check:	OK
Bearing Check:	OK
Concrete Strength Check:	OK
Max Pad Reinforcement Spacing:	OK
Min. Pad Reinforcement Spacing:	OK
Pad Constructability Check:	OK
Min. Pad Reinforcement Check:	OK
Pad Reinforcement Yield Check:	OK
Pad Flexural Check:	OK
Pad Development Length:	OK
One Way Shear Check:	OK
Two-Way Shear Check:	OK
Vertical Bar Quantity Check:	OK
Min/Max Vertical Bar Spacing Check:	OK
Pier Constructability Check:	OK
Minimum Vertical Reinforcement:	OK
Pier Compressive Strength:	OK
Pier Reinforcement Stress:	OK
Compressive Development in Pier:	OK
Compressive Development in Footing:	OK
Tensile Development in Pier:	OK
Tensile Development in Footing:	HOOK REQ'D
Hook Development Length:	OK
Space of Hook:	OK
Rebar Engaged by Anchors:	OK
Plate & Rebar Spacing Check:	OK
Anchor Embedment Clearance:	PIER ONLY
Anchor Strength Check:	OK
Anchor Concrete Punching Check:	OK

Flexural Strength									Required Development Length (in)	Available Development Length (in)
Effective Depth (in)	Effective Width (in)	Compressive Zone Depth (in)	Concrete Strength Factor	Edge Unbraced Length (ft)	Inner Unbraced Length (ft)	Corner Unbraced Length (ft)	Factored Moment (ft-kips)	Design Moment (ft-kips)		
13.87	384.00	1.961	0.83	6.04	14.92	8.44	2705.90	2784.59	30.27	39.49
ACI-318-14 2.2.3		Yield Check:		OK					OK	OK
				ACI-318-14 Table 22.2.2.4.3					97.2%	
									ACI-318-14 25.4.2.3a	

Concrete Shear Capacity

Shear Strength Reduction Factor = 0.75

One-Way Shear						Two-Way Shear				
Effective Shear Depth (ft)	Effective Shear Width (ft)	Factored Shear Force (kips)	Nominal Concrete Shear Strength (kips)	Nominal Rebar Shear Strength (kips)	Design Shear Strength (kips)	Shear Perimeter (ft)	Factored Shear Force (kips)	Nominal Concrete Shear Strength (kips)	Nominal Rebar Shear Strength (kips)	Design Shear Strength (kips)
1.11	32.00	211.37	685.61	0.00	514.21	15.34	445.30	648.81	0.00	486.60
OK						OK				
41.1%						91.5%				

Tie Reinforcement Design

Number of Bars	Bar Size	Bar Diameter (in)	Bar Weight (lb/ft)	Total Bar Weight (lb)	Bar Area (sq in)	Overlap Length (in)	Total Length (in)	Zone	Maximum Tie Spacing (in)	Zone Distance (in)	Number of Tie Spaces	Actual Tie Spacing (in)	Number of Ties per Zone
15	4	0.50	0.67	155	0.20	18.0	186.1	End	1.625	1.625	1	1 10/16	2
								Top	0	0	0	0	0
								Middle	6	73.375	13	5 10/16	13
								Pad	N/A	N/A	N/A	N/A	N/A
						-	-						

Shear (Compression)

Factored Axial Force N_u (lb)	Distance to Tension Reinf. d (in)	Ratio of A_s to $b_w d$ ρ_w	Concrete Weight W_c (lb)	Pier Gross Area A_g (in ²)	Nom. Strength Concrete V_c (kip)	Minimum Bar Area A_{min} (in ²)	Total Bar Area A_s (in ²)	Nom. Strength Reinforcement V_s (kip)	Des. Shear Strength ϕV_n (kip)	Factored Axial Force N_u (lb)	Nom. Shear Concrete V_c (kip)	Des. Shear Strength ϕV_n (kip)
485696	48.000	0.005	245.437	2827.433	419.580	0.000	0.400	384.000	602.685	485206	253.778	478.333
OK						OK		OK		OK		
								6.1%		7.6%		

Splice Length - Ties

Bar Size	Reinf. Location Factor, α	Coating Factor, β	Reinf. Size Factor, γ	Lightwt. Aggregate Factor, λ	Spacing or Cover, c (in)	Transverse Reinf. Index, K_{tr}	Development Length ℓ_d (in)	Splice Length Tolerance (in)	Splice Length $1.3 \times \ell_d$ (in)
4	1.0	1.0	0.8	1.0	2.81	0.0	12.0	1.0	18.0

Pier Vertical Reinforcement Design

Number of Bars	Bar Size	Bar Diameter (in)	Hook Bend Radius (in)	Hook Extension Length (in)	90 degree Std. Hook Length (in)	Bar Length (in)	Bar Area (sq in)	Pier Gross Area (sq in)	Total Bar Area (sq in)	Minimum Bar Area Required (sq in)	Ctr-Ctr Spacing (in)	Clear Spacing (in)
24	7	0.88	2.63	10.50	13.13	100.00	0.60	2827.43	14.40	14.14	6.8	5.9
OK										OK	OK	
										Constructability:	OK	

Development Length - Vertical Pier Reinforcement

TIA-222-H 9.4.1

Hook Development Length

Space for Hook

Compressive Development			Tension Development			Basic Development Length (in)	Concrete Cover Factor	Required Development Length (in)	Development Length Available (in)	Hook Orientation	Space Available for Hook (in)	Space Required for Hook (in)
Required Length (in)	Required Length Adj. (in)	Available in Pier (in)	Required Length (in)	Available in Pier (in)	Available in Footing (in)							
15.75	8.00	75.00	12.74	23.48	75.00	12.74	15.65	0.7	11.0	12.74	24.50	13.1
OK						HOOK REQ'D	OK			Hooks Extend Outward	OK	

Pier Axial Strength - Compression and Tension

Reinforcement Stress

Pier Gross Area (in ²)	Nominal Compressive Strength (kip)	Compressive Strength Reduction Factor	Design Compressive Strength (kip)	Nominal Tensile Strength (kip)	Tensile Strength Reduction Factor	Design Tensile Strength (kip)	Diameter of Reinforcement Circle (in)	Equivalent Pipe			Reinforcement Stress (ksi)	Design Stress (ksi)
								Outer Diameter (in)	Inner Diameter (in)	Thickness (in)		
2827.43	11623.85	0.65	6044.40	864.00	0.90	777.60	52.13	52.21	52.04	0.176	187.3	44.72
OK						OK						
8.0%						54.6%						

Anchor Bolt Design

Bolt Threads per Inch	Gross Area (in ²)	Bolt Net Area (in ²)	Ultimate Tensile Stress (ksi)	Bolt Yield Strength (ksi)	Bolt Nominal Tensile Strength (kip)	Nominal Shear Rupture Strength (kip)	Nominal Compression Yield Strength (kip/in ²)	Nominal Shear Yield Strength (kip)	Anchor Bolt Interaction Equation	Embedment Depth of Anchor (in)	Pier Allowable Embedment Depth (in)	Footing Embedment Top Limit (in)	Footing Embedment Bot. Limit (in)
8	0.785	0.606	125	105	75.718	49.087	63.603	19.081	0.800	54.500	78.000	85.256	88.744
OK										PIER ONLY			

Anchor Bolts and Embedment Plate

Anchor Bolt PN	Number of Bolts	Bolt Diameter (in)	Bolt Length (in)	Length Protruding From Concrete			Plate PN	Plate O.D. or Width (in)	Plate Thickness (in)	Bolt Circle Diameter (in)	Rebar Engaged by Bolts (in)	Length Required (in)	Gap Btwn Rebar & Plate (in)
				Specified (in)	Tolerance Above (in)	Tolerance Below (in)							
102970	10	1.00	60	5.75	0.1875	-0.25	139914	16.75	0.5	14.25	29.13	23.48	17.25
Std. Pattern											OK	OK	

Notes

- Foundation design is based on the Geotechnical Report dated 06/25/2025, by Delta Oaks Group; Project No. GEO25-26108-08.
- Groundwater may be encountered at 15 feet bgs at this site based on the geotechnical investigation. The need for dewatering should be anticipated below this depth.
- Rock conditions were encountered about 20.8 feet bgs in the geotechnical investigation.
- This mat design assumes an ultimate bearing capacity of 3880 psf (allowable bearing capacity of 3880 psf) based on the geotechnical report. The bearing surface shall be inspected prior to concrete placement.
- During placement, concrete shall be suitably consolidated. Proper curing methods shall be used directly following concrete placement as established by the contractor. Concrete shall develop a minimum compressive strength of 3000 psi prior to backfill and compaction operations, and backfill shall be compacted to a minimum moist unit weight of 110 pcf.
- All foundation concrete shall be in accordance with the latest ACI-318 exposure class requirements for corrosive soils.

Combined (MAT) Foundation Design Summary

Max. Foundation Capacity Rating:	97.2%
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FOUNDATION DIMENSIONS	
Tower Width:	23 ft
Pier Extension:	0.5 ft
Depth:	7.5 ft
Pad Width:	32 ft
Pad Thickness:	1.5 ft
Pier Diameter:	5 ft
Clear Cover:	3 in
Volume:	71.1 yd ³

MAT REINFORCEMENT	
Bar Size:	9
Bar Length:	378 in
Bar Center to Center Spacing:	8.0 in
Quantity per Layer per Direction:	48
Total Quantity:	192
Weight per Bar:	107.1 lbs
Total Weight:	20563 lbs

PIER REINFORCEMENT	
Bar Size:	7
Bar Length:	100 in
Bend Radius:	2.625 in
Standard Hook Length:	13.125 in
Hook Orientation:	Hooks Extend Outward
Bar Center to Center Spacing:	6.8 in
Quantity per Pier:	24
Total Quantity:	72
Weight per Pier:	409 lbs
Total Weight:	1226 lbs

TIE REINFORCEMENT	
Bar Size:	4
Bar Length:	187 in
Circular Tie Outer Diameter:	54 in
Overlap:	18 in
Tie Termination Type:	Overlap
Quantity of Ties in Pad:	N/A
Quantity per Pier:	15
Bar Center to Center Spacing:	5.6 in
Total Quantity:	45
Weight per Pier:	155 lbs
Total Weight:	465 lbs

TOWER REACTIONS	
Tower Shear:	57.2 kip
Tower Moment:	9214.2 ft-kip
Tower Weight:	68.6 kip
Leg Compression:	485.5 kip
Leg Uplift:	424.6 kip
Leg Shear:	36.6 kip

MATERIAL SPECIFICATIONS	
Concrete Strength:	4500 psi
Concrete Weight:	150 pcf
Soil Strength (Ultimate Bearing):	3,880 psf
Rebar Yield Strength:	60 ksi

ANCHORING DETAILS	
Anchor P/N:	102970
Anchor Diameter:	1 in
Anchor Length:	60 in
Anchor Quantity per Leg:	10
	Std. Pattern
Anchor Projection:	5.75 in
	+ 0.1875" -0.25"
Bolt Circle Diameter:	14.25 in
Template P/N	139914

STRUCTURAL FILL CRITERIA	
Loose Lift Thickness:	8 in
Percent Compaction:	98%
ASTM Standard:	D698
Optimum Moisture Content	2%
Tolerance:	-2%

BACKFILL CRITERIA (NON-STRUCTURAL)	
Loose Lift Thickness:	8 in
Percent Compaction:	95%
ASTM Standard:	D698
Optimum Moisture Content	2%
Tolerance:	-2%

ECO #:	
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ADDITIONAL NOTES

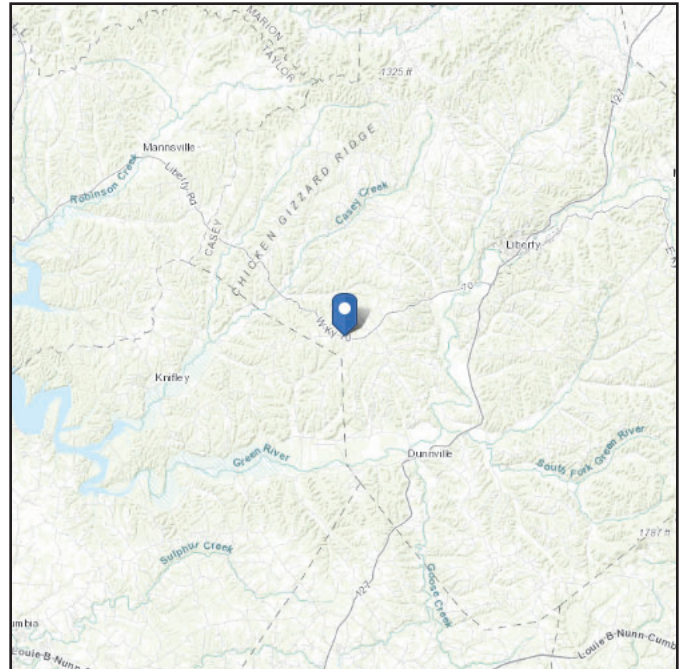
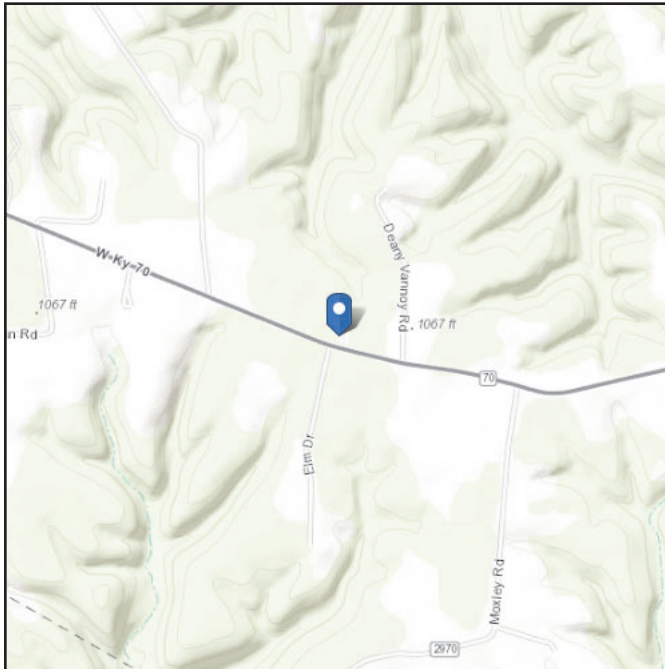
- Foundation design is based on the Geotechnical Report dated 06/25/2025, by Delta Oaks Group; Project No. GEO25-26108-08.
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- Rock conditions were encountered about 20.8 feet bgs in the geotechnical investigation.
- This mat design assumes an ultimate bearing capacity of 3880 psf (allowable bearing capacity of 3880 psf) based on the geotechnical report. The bearing surface shall be inspected prior to concrete placement.
- During placement, concrete shall be suitably consolidated. Proper curing methods shall be used directly following concrete placement as established by the contractor. Concrete shall develop a minimum compressive strength of 3000 psi prior to backfill and compaction operations, and backfill shall be compacted to a minimum moist unit weight of 110 pcf.
- All foundation concrete shall be in accordance with the latest ACI-318 exposure class requirements for corrosive soils.

ASCE Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Latitude: 37.268775
Longitude: -85.054892
Elevation: 1072.4512077961278 ft
(NAVD 88)

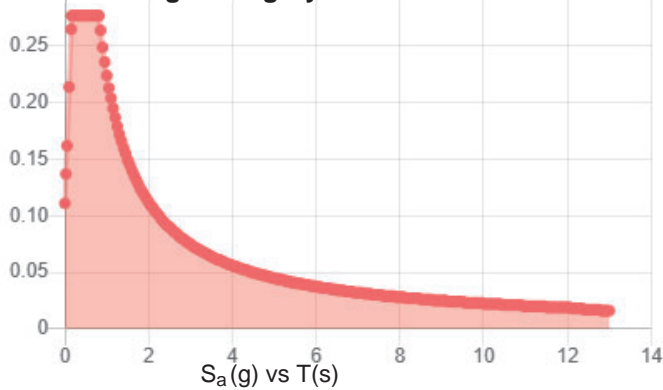


Site Soil Class: D - Stiff Soil

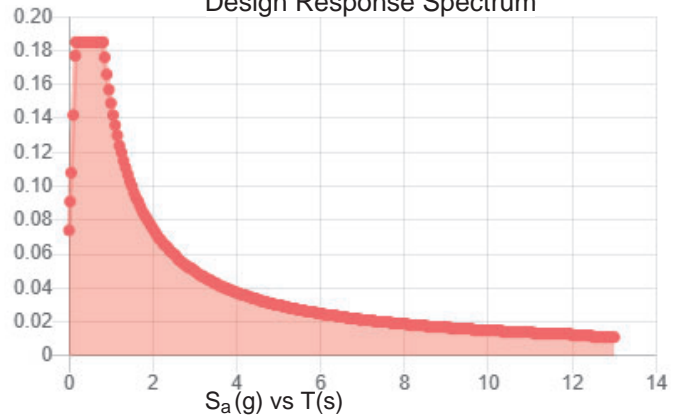
Results:

S_S :	0.173	S_{D1} :	0.149
S_1 :	0.093	T_L :	12
F_a :	1.6	PGA :	0.082
F_v :	2.4	PGA _M :	0.131
S_{MS} :	0.277	F_{PGA} :	1.6
S_{M1} :	0.224	I_e :	1
S_{DS} :	0.185	C_v :	0.7

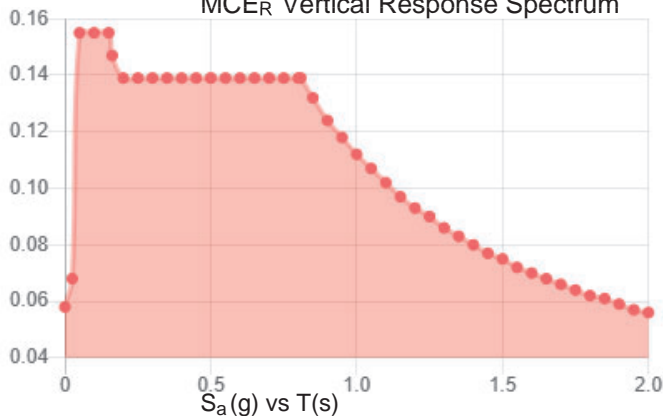
Seismic Design Category: C MCE_R Response Spectrum



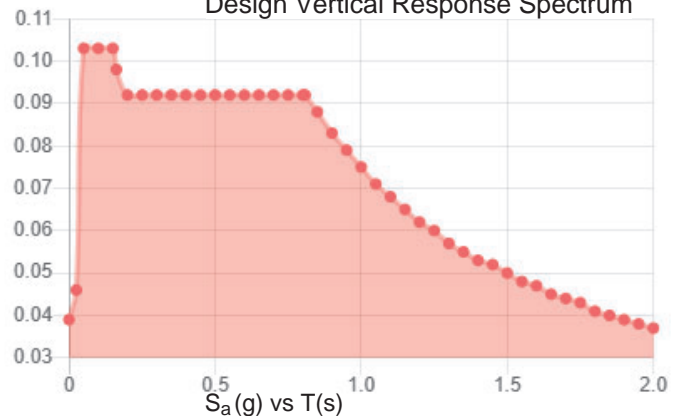
Design Response Spectrum



MCE_R Vertical Response Spectrum



Design Vertical Response Spectrum



Data Accessed: Mon Aug 04 2025

Date Source:

USGS Seismic Design Maps based on ASCE/SEI 7-16 and ASCE/SEI 7-16 Table 1.5-2. Additional data for site-specific ground motion procedures in accordance with ASCE/SEI 7-16 Ch. 21 are available from USGS.

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

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In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.

EXHIBIT D

COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST

KY Public Service Commission

Master Utility Search

- Search for the utility of interest by using any single or combination of criteria.
- Enter Partial names to return the closest match for Utility Name and Address/City/Contact entries.

Utility ID	Utility Name	Address/City/Contact	Utility Type	Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Active <input type="text"/>
<input type="button" value="Search"/>				

	Utility ID	Utility Name	Utility Type	Class	City	State
<input type="button" value="View"/>	4002000	1GLOBAL Operations (US) Inc.	Cellular	D	Durham	NC
<input type="button" value="View"/>	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	Henderson	NV
<input type="button" value="View"/>	4115150	ACN Communication Services, LLC dba Flash Wireless dba Flash Mobile	Cellular	D	Charlotte	NC
<input type="button" value="View"/>	4115750	Affiniti Ventures, Inc.	Cellular	C	New York	NY
<input type="button" value="View"/>	4113600	AFNET, LLC	Cellular	D	Alpharetta	GA
<input type="button" value="View"/>	4108300	Air Voice Wireless, LLC d/b/a AirTalk Wireless	Cellular	A	Houston	TX
<input type="button" value="View"/>	4115200	Airespring, Inc.	Cellular	D	Clearwater	FL
<input type="button" value="View"/>	4111900	ALLNETAIR, INC.	Cellular	D	West Palm Beach	FL
<input type="button" value="View"/>	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
<input type="button" value="View"/>	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
<input type="button" value="View"/>	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	OH
<input type="button" value="View"/>	4108650	AmeriMex Communications Corp.	Cellular	D	Safety Harbor	FL

View	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
View	4114250	Approved Contact LLC	Cellular	D	Reno	NV
View	4115050	Aquarius Silver LLC	Cellular	D	Sheridan	WY
View	4105700	Assurance Wireless USA, L.P.	Cellular	D	Atlanta	GA
View	4113100	BARK TECHNOLOGIES, INC.	Cellular	D	Charlotte	NC
View	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
View	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
View	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
View	4107600	Boomerang Wireless, LLC	Cellular	A	Dallas	TX
View	4115500	CALL CENTERS INDIA INCORPORATED d/b/a Blueconnects	Cellular	D	Seattle	WA
View	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4106600	Cintex Wireless, LLC	Cellular	D	Houston	TX
View	4114550	Cliq Communications LLC d/b/a Cliq Mobile	Cellular	D	Coral Gables	FL
View	4111150	Comcast OTR1, LLC	Cellular	A	Phoeniexville	PA
View	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4112700	Cox Wireless, LLC	Cellular	D	Atlanta	GA
View	4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
View	4111500	CSC Wireless, LLC d/b/a Altice Wireless	Cellular	A	Long Island City	NY
View	4114000	Daywalker Mobile Inc.	Cellular	D	Bartlesville	OK
View	4112000	DISH Wireless L.L.C.	Cellular	A	Englewood	CO
View	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
View	4111800	Earthlink, LLC	Cellular	C	Atlanta	GA
View	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
View	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
View	4113800	EVOLVE WIRELESS LLC	Cellular	D	Maumee	OH

View	4110450	Excellus Communications, LLC	Cellular	D	Harrisburg	SD
View	4112400	Excess Telecom Inc.	Cellular	D	Beverly Hills	CA
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Herndon	VA
View	4111750	Gabb Wireless, Inc.	Cellular	A	Lehi	UT
View	4109350	Global Connection Inc. of America	Cellular	D	Miami	FL
View	4102200	Globalstar USA, LLC	Cellular	C	Covington	LA
View	4112850	GO TECHNOLOGY MANAGEMENT, LLC	Cellular	D	Atlanta	GA
View	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	4114300	Group F Consulting, LLC	Cellular	D		
View	4114050	Helix Wireless Inc.	Cellular	D	Monmouth Junction	NJ
View	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
View	4112950	Hoop Wireless, LLC	Cellular	D	Lakewood	NJ
View	4103100	i-Wireless, LLC	Cellular	D	Newport	KY
View	4112550	IDT Domestic Telecom, Inc.	Cellular	D	Newark	NJ
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Plano	TX
View	4112650	Insight Mobile, Inc.	Cellular	D	Los Angeles	CA
View	4111950	J Rhodes Enterprises LLC	Cellular	D	Gulf Breeze	FL
View	22215360	KDDI America, Inc.	Cellular	D	Staten Island	NY
View	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
View	4112200	Lexvor Inc.	Cellular	D	Irvine	CA
View	4111250	Liberty Mobile Wireless, LLC	Cellular	B	Sunny Isles Beach	FL
View	4114750	Link Mobile, Inc.	Cellular	D	New York	NY
View	4111400	Locus Telecommunications, LLC	Cellular	B	Fort Lee	NJ
View	4114500	Lux Mobile USA, Inc	Cellular	D	Baton Rouge	LA
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4112500	Marconi Wireless Holdings, LLC	Cellular	B	Westlake Village	CA
View	4113850	MAXSIP TEL KENTUCKY LLC d/b/a Maxsip Telecom	Cellular	D	Woodmere	NY
View	4114800	Mediacom Wireless LLC	Cellular	D	Mediacom Park	NY

View	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
View	4111700	Mint Mobile, LLC	Cellular	A	Costa Mesa	CA
View	4115100	Mobile 13, Inc	Cellular	D	South Jordan	UT
View	4114950	Moxee Technologies LLC dba COLLEGIATE MOBILE	Cellular	D	Sparks	NV
View	4114100	MVNO Connect LLC	Cellular	D	St. Petersburg	FL
View	4113350	NatWireless, LLC	Cellular	D	Houston	TX
View	4202400	New Cingular Wireless PCS, LLC	Cellular	A	San Antonio	TX
View	4110700	Norcell, LLC	Cellular	D	Clayton	WA
View	4113700	Nova Labs, Inc. dba Helium Mobile	Cellular	D	San Francisco	CA
View	4110750	Onvoy Spectrum, LLC	Cellular	D	Chicago	IL
View	4109050	Patriot Mobile LLC	Cellular	A	Grapevine	TX
View	4115600	PHREELI COMPANY	Cellular	D	Lewes	DE
View	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
View	4115650	PLUG MOBILE LLC	Cellular	D	St. Louis	MO
View	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
View	4114850	POWER MOBILE LLC	Cellular	D	Rockville Centre	NY
View	4112800	Prepaid Wireless Group, LLC dba Prepaid Wireless Wholesale	Cellular	D	Rockville	MD
View	4115550	Prepaid Wireless Wholesale of Maryland, LLC	Cellular	D	Rockville	MD
View	4114350	PRESTO WIRELESS Corp.	Cellular	D	Fair Lawn	NJ
View	4115000	Prosper Wireless LLC	Cellular	C	Sherman Oaks	CA
View	4107700	Puretalk Holdings, Inc.	Cellular	B	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
View	4115900	RABONA CORPORATION	Cellular	C	New York	NY
View	4113200	Red Pocket Inc.	Cellular	D	Thousand Oaks	CA
View	4116000	Ringer Mobile, LLC	Cellular	C	Peachtree Corners	GA
View	4114200	Roccstar Wireless LLC	Cellular	D	Bedford	TX
View	4114700	Rocket Mobile LLC	Cellular	D	West Palm Beach	FL
View	4115400	RSCU Mobile, LLC	Cellular	D	Alpine	UT

View	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	A	Los Angeles	CA
View	4113050	Sarver Corporation	Cellular	D	Rancho Cucamonga	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	A	Fremont	NE
View	4110150	Spectrotel of the South LLC dba Touch Base Communications	Cellular	D	Neptune	NJ
View	4111450	Spectrum Mobile, LLC	Cellular	A	St. Louis	MO
View	4114400	Splash Cellular Inc.	Cellular	D	Bountiful	UT
View	4111600	STX Group LLC dba Twigby	Cellular	D	Murfreesboro	TN
View	4115450	Surf Telecom, LLC	Cellular	D	Key Bixcayne	FL
View	4115950	Switch Mobile, LLC	Cellular	C	Layton	UT
View	4113450	Syntegra North America, LLC	Cellular	D	Denton	TX
View	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
View	4002500	TAG Mobility, LLC d/b/a TAG Mobile	Cellular	D	Plano	TX
View	4115850	TELCO Communications LLC dba TELCO CELLULAR	Cellular	C	Oceanside	NY
View	4107200	Telefonica Global Solutions USA, Inc.	Cellular	D	Miami	FL
View	4112100	Tello LLC	Cellular	A	Atlanta	GA
View	4108900	Telrite Corporation	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	D	Dallas	TX
View	4113900	TERRACOM Inc. d/b/a Maxsip Tel	Cellular	D	Chattanooga	TN
View	4113950	THE LIGHT PHONE INC.	Cellular	D	Brooklyn	NY
View	4113250	Thrive Health Tech, Inc.	Cellular	D	Nashville	TN
View	4110400	Torch Wireless Corp.	Cellular	C	Bartlett	TN
View	4103300	Touchtone Communications, Inc.	Cellular	D	Cedar Knolls	NJ
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4115350	TREK CELLULAR, LLC	Cellular	D	Stevensville	MD
View	4112250	TROOMI WIRELESS, Inc.	Cellular	B	Orem	UT
View	4114600	TruConnect Communications, Inc.	Cellular	D	Los Angeles	CA
View	4112600	Tube Incorporated dba Reach Mobile	Cellular	D	Atlanta	GA

View	4112750	Unity Wireless, Inc.	Cellular	D	Pembroke Pines	FL
View	4115800	USA Mobile LLC	Cellular	C	Laguna Beach	CA
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	C	Costa Mesa	CA
View	10630	Verizon Americas LLC dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4113300	Via Wireless, LLC	Cellular	D	Houston	TX
View	4110800	Visible Service LLC	Cellular	D	Basking Ridge	NJ
View	4115700	Viva-US Communications, Inc.	Cellular	C	San Diego	CA
View	4113750	VOLT MOBILE Inc	Cellular	D	Delray Beach	FL
View	4114450	WeIncentivize LLC d/b/a ChosenWireless	Cellular	D	San Diego	CA
View	4113000	Whoop Connect Inc.	Cellular	D	Melbourne	FL
View	4115250	WHOOB MOBILE INC.	Cellular	D	Melbourne	FL
View	4106500	WiMacTel, Inc.	Cellular	D	Calgary, AB	CA
View	4110950	Wing Tel Inc.	Cellular	C	New York	NY
View	4113650	XCHANGE TELECOM LLC	Cellular	D	Brooklyn	NY
View	4112150	Zefcom, LLC	Cellular	C	Wichita Falls	TX

EXHIBIT E

**FEDERAL AVIATION ADMINISTRATION
DOCUMENTATION**



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

Aeronautical Study No.
2025-ASO-4491-OE

Issued Date: 04/03/2025

Julie Heffernan
The Towers, LLC
7500 Park of Commerce Dr
Suite 200
Boca Raton, FL 33487

**** 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 US-KY-5213 - Crockets Trail
Location:	Liberty, KY
Latitude:	37-16-07.59N NAD 83
Longitude:	85-03-17.61W
Heights:	1072 feet site elevation (SE)
	265 feet above ground level (AGL)
	1337 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 Change 1, 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 Airmen (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)
__X__ Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

See attachment for additional condition(s) or information.

This determination expires on 10/03/2026 unless:

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

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

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

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

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

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

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

If we can be of further assistance, please contact Joe Burkhardt, at (404) 305-5958, or Joseph.CTR.Burkhardt@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2025-ASO-4491-OE.

Signature Control No: 649270038-652697280

(DNE)

Julie A. Morgan

Manager, Obstruction Evaluation Group

Attachment(s)
Additional Information
Frequency Data
Map(s)

cc: FCC

Part 77 authorizes the FAA to evaluate a structure or object's potential electromagnetic effects on air navigation, communication facilities, and other surveillance systems. It also authorizes study of impact on arrival, departure, and en route procedures for aircraft operating under visual or instrument flight rules, as well as the impact on airport traffic capacity at existing public use airports. Broadcast in the 3.7 to 3.98 GHz frequency (5G C band) currently causes errors in certain aircraft radio altimeters and the FAA has determined they cannot be relied upon to perform their intended function when experiencing interference from wireless broadband operations in the 5G C band. The FAA has adopted Airworthiness Directives for all transport and commuter category aircraft equipped with radio altimeters that prohibit certain operations when in the presence of 5G C band.

This determination of no hazard is based upon those mitigations implemented by the FAA and operators of transport and commuter category aircraft, and helicopters operating in the vicinity of your proposed location. It is also based on telecommunication industry and FAA collaboration on acceptable power levels and other parameters as reflected in the FAA 5G C band evaluation process.

The FAA 5G C band compatibility evaluation is a data analytics system used by FAA to evaluate operational hazards related to aircraft design. The FAA 5G C band compatibility evaluation process refers to the process in which the telecommunication companies and the FAA have set parameters, such as power output, locations, frequencies, and tilt angles for antenna that mitigate the hazard to aviation. As the telecommunication companies and FAA refine the tools and methodology, the allowable frequencies and power levels may change in the FAA 5G C band compatibility evaluation process. Therefore, your proposal will not have a substantial adverse effect on the safe and efficient use of the navigable airspace by aircraft provided the equipment and emissions are in compliance with the parameters established through the FAA 5G C band compatibility evaluation process.

Any future changes that are not consistent with the parameters listed in the FAA 5G C band compatibility evaluation process will void this determination of no hazard.

Frequency Data for ASN 2025-ASO-4491-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



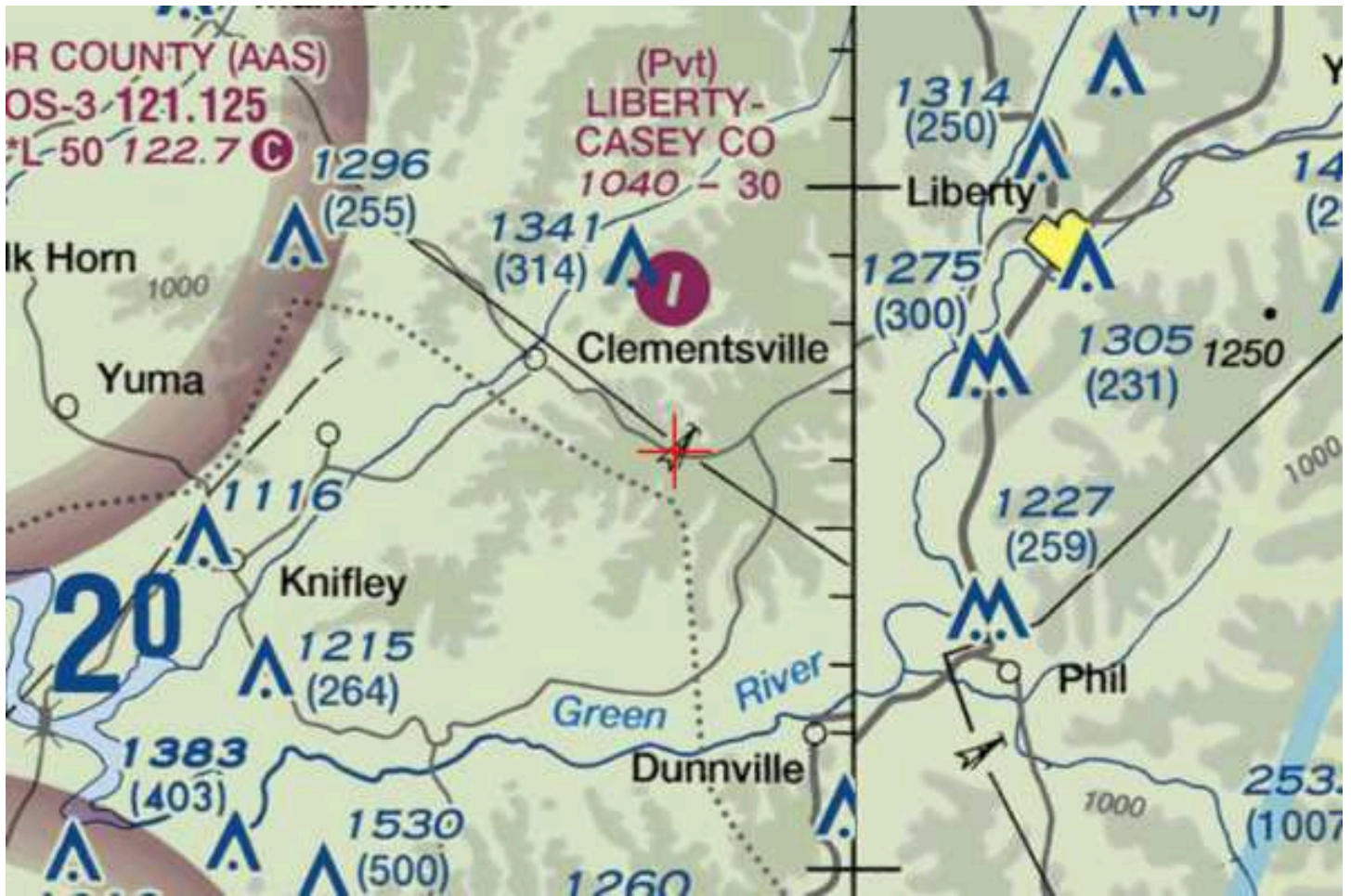


EXHIBIT F

**KENTUCKY AIRPORT ZONING COMMISSION
DOCUMENTATION**

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.

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Vertical Bridge REIT, LLC dba The Towers, LLC		PHONE 561-406-4015	FAX	KY AERONAUTICAL STUDY #	
ADDRESS (street) 750 Park of Commerce Drive, Suite 200		CITY Boca Raton		STATE FL	ZIP 33487
APPLICANT'S REPRESENTATIVE (name) Gretchen Blanton		PHONE 704-472-0374	FAX		
ADDRESS (street) 750 Park of Commerce Drive, Suite 200		CITY Boca Raton		STATE FL	ZIP 33487
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° 16' 7.59"		LONGITUDE -85° 3' 17.61"		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City Liberty County Casey		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT AAS - Taylor County			
SITE ELEVATION (AMSL, feet) 1072		TOTAL STRUCTURE HEIGHT (AGL, feet) 265		CURRENT (FAA aeronautical study #) 2025-ASO-4491-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1337				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 13.31 Nautical Miles				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) SE					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) See attached					
DESCRIPTION OF PROPOSAL 265' AGL Self-Support Tower (255' tower + 10' lightning rod) VB Site ID: US-KY-5213 Crockets Trail					
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					
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 Gretchen Blanton	TITLE Project Manager	SIGNATURE <i>Gretchen Blanton</i>		DATE 6/23/2025	
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC			
<input type="checkbox"/> Approved <input type="checkbox"/> Disapproved		SIGNATURE		DATE	

EXHIBIT G
GEOTECHNICAL REPORT



DELTA OAKS GROUP

GEOTECHNICAL INVESTIGATION REPORT

June 25, 2025

Prepared For:

Vertical Bridge Holdings, LLC



Crocketts Trail

US-KY-5213

Proposed 255-Foot Self-Supporting Tower

111 Deany Vannoy Road, Liberty (Casey County), Kentucky 42539

Latitude N 37° 16' 07.59" Longitude W 85° 03' 17.61"

Delta Oaks Group Project GEO25-26108-08

Revision 0

geotech@deltaoaksgroup.com

Performed By:

Michael Thomas

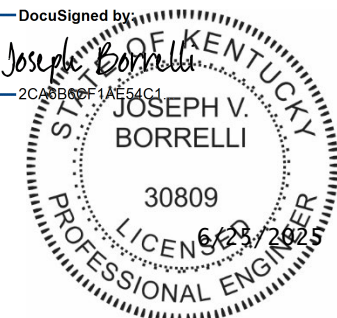
Reviewed By:

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

DocuSigned by:

Joseph V. Borrelli

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INTRODUCTION

This geotechnical investigation report has been completed for the proposed 255-foot self-supporting tower located at 111 Deany Vannoy Road in Liberty (Casey County), Kentucky. The purpose of this investigation was to provide engineering recommendations and subsurface condition data at the proposed tower location. A geotechnical engineering interpretation of the collected information was completed and utilized to suggest design parameters regarding the adequacy of the structure's proposed foundation capacity under various loading conditions. This report provides the scope of the geotechnical investigation; geologic material identification; results of the geotechnical laboratory testing; and design parameter recommendations for use in the design of the telecommunication facility's foundation and site development.

SITE CONDITION SUMMARY

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

REFERENCES

- Lease Exhibit, provided by Vertical Bridge Holdings, LLC., dated February 14, 2025
- 1A Report, prepared by FSTAN Land Surveyors, dated March 20, 2023
- Survey Drawings, provided by Vertical Bridge Holdings, LLC., dated March 7, 2025
- TIA Standard (TIA-222-H), dated October 2017

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of five (5) mechanical soil test borings, denoted B-1 through B-5, to the following depths:

Boring #	Auger Refusal Depth (ft)	Boring Termination Depth (ft)
B-1	20.8	-
B-2	9.3	-
B-3	20.7	-
B-4	-	5.5
B-5	-	5.5

Samples were obtained at selected intervals in accordance with ASTM D 1586. The sampling was conducted at the coordinates provided for the proposed tower legs (B-1 through B-3), the southeastern corner of the proposed tower compound (B-4), and the proposed compound access path (B-5). Upon encountering auger refusal, 10.4 feet of rock coring was conducted in accordance with ASTM D 2113. Soil and rock samples were transported to our laboratory and classified by a geotechnical engineer in accordance with ASTM D 2487. A detailed breakdown of the material encountered in our subsurface field investigation can be found in the boring logs presented in the Appendix of this report.

Additional testing was performed on selected samples in accordance with ASTM D 7012 (Unconfined Compressive Strength – Rock). Laboratory data can be found in the Appendix of this report.

A boring plan portraying the spatial location of the borings in relation to the proposed tower, tower compound and immediate surrounding area can be found in the Appendix.



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SUBSURFACE CONDITION SUMMARY

The following provides a general overview of the site's subsurface conditions based on the data obtained during our field investigation.

FILL

Fill material was not encountered during the subsurface field investigation. Approximately six (6) inches of surficial topsoil was encountered in the borings.

SOIL

The residual soil encountered in the subsurface field investigation began beneath surficial topsoil in the borings and consisted of silt, silty clay, and weathered rock sampled as silty gravel. The materials exhibited a loose relative density and ranged from a medium stiff to hard consistency.

Auger advancement refusal was encountered in borings B-1 through B-3 during the subsurface field investigation at depth of 20.8, 9.3 and 20.7 feet bgs, respectively.

ROCK

Rock was encountered and verified through coring in boring B-1 at a depth of 20.8 feet bgs. The rock can be described as brown, orange, highly fractured, highly weathered, soft to moderately hard, mudstone, underlain by grey, moderately fractured, slightly weathered, hard, dolostone with interbedded limestone seams.

SUBSURFACE WATER

At the time of drilling, subsurface water was encountered in borings B-1 and B-3 during the subsurface investigation at a depth of 15.0 feet bgs. However, subsurface water elevations can fluctuate throughout the year due to variations in climate, hydraulic parameters, nearby construction activity and other factors.

FROST PENETRATION

The frost penetration depth for Casey County, Kentucky is 30 inches (2.5 feet).

CORROSIVITY

Soil resistivity was performed in boring B-1 in accordance with ASTM G187 with a test result of 5,620 ohms-cm.



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FOUNDATION DESIGN SUMMARY

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

GENERAL SUBSURFACE STRENGTH PARAMETERS

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-1	0.0 - 4.0	ML	120	0	800
	4.0 - 6.0	CL-ML	120	0	1,500
	6.0 - 9.0	CL-ML	120	0	1,600
	9.0 - 14.0	CL-ML	130	0	4,000
	14.0 - 19.0	ML	120 / 58	0	800
	19.0 - 20.8	WEATHERED ROCK (GM)	110 / 48	30	0
	20.8 - 26.2	MUDSTONE	140	0	4,500
	26.2 - 31.2	DOLOSTONE	150	0	5,000

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-2	0.0 - 4.0	ML	120	0	1,800
	4.0 - 6.0	ML	120	0	2,000
	6.0 - 9.0	CL	115	0	600
	9.0 - 9.3	ML	130	0	4,000



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Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-3	0.0 - 6.0	ML	120	0	1,400
	6.0 - 9.0	CL	120	0	1,200
	9.0 - 14.0	CL	120	0	1,600
	14.0 - 19.0	CL	120 / 58	0	1,300
	19.0 - 20.7	ML	115 / 53	0	700

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-4	0.0 - 4.0	ML	120	0	1,700
	4.0 - 5.5	ML	120	0	1,400

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-5	0.0 - 4.0	ML	110	0	400
	4.0 - 5.5	CL	120	0	1,500

- The buoyant unit weight of soil should be utilized below a depth of 15.0 feet bgs.
- The unit weight provided assumes overburden soil was compacted to a minimum of 95% of the maximum dry density as obtained by the standard Proctor method (ASTM D 698) and maintained a moisture content within 3 percent of optimum
- The values provided for phi angle and cohesion should be considered ultimate.



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SUBSURFACE STRENGTH PARAMETERS – SHALLOW FOUNDATION

Boring	Dimensions (feet)	Depth (feet bgs)	Net Ultimate Bearing Capacity (psf)
B-1	5.0 x 5.0	3.0	5,530
		4.0	10,730
		5.0	11,100
		6.0	12,240
	10.0 x 10.0	3.0	5,230
		4.0	9,990
		5.0	10,180
		6.0	11,050
	15.0 x 15.0	3.0	5,130
		4.0	8,770
		5.0	8,390
		6.0	8,210
	20.0 x 20.0	3.0	5,080
		4.0	7,810
		5.0	7,520
		6.0	7,390
	25.0 x 25.0	3.0	5,050
		4.0	7,230
		5.0	7,000
		6.0	6,900



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Boring	Dimensions (feet)	Depth (feet bgs)	Net Ultimate Bearing Capacity (psf)
B-2	5.0 x 5.0	3.0	7,370
		4.0	6,420
		5.0	5,060
		6.0	4,590
	10.0 x 10.0	3.0	5,530
		4.0	5,060
		5.0	4,380
		6.0	4,140
	15.0 x 15.0	3.0	4,920
		4.0	4,600
		5.0	4,150
		6.0	4,000
	20.0 x 20.0	3.0	4,610
		4.0	4,380
		5.0	4,040
		6.0	3,920
	25.0 x 25.0	3.0	4,430
		4.0	4,240
		5.0	3,970
		6.0	3,880



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Boring	Dimensions (feet)	Depth (feet bgs)	Net Ultimate Bearing Capacity (psf)
B-3	5.0 x 5.0	3.0	9,670
		4.0	10,020
		5.0	8,520
		6.0	9,180
	10.0 x 10.0	3.0	9,150
		4.0	8,520
		5.0	7,960
		6.0	8,290
	15.0 x 15.0	3.0	8,520
		4.0	8,140
		5.0	7,770
		6.0	7,990
	20.0 x 20.0	3.0	8,240
		4.0	7,960
		5.0	7,680
		6.0	7,850
	25.0 x 25.0	3.0	7,680
		4.0	7,470
		5.0	7,260
		6.0	6,730

- Delta Oaks Group recommends the foundation bear a minimum of 3.0 feet bgs.
- A sliding friction factor of 0.35 can be utilized along the base of the proposed foundation.
- An Ultimate Passive Pressure Table with a reduction due to frost penetration to a depth of 2.5 feet bgs is presented on the following page.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



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ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION [B-1]

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	120	0	800	0.00	1.00	800.00
Bottom	2.5	120	0	800	300.00	1.00	950.00
Top	2.5	120	0	800	300.00	1.00	1,900.00
Bottom	4.0	120	0	800	480.00	1.00	2,080.00
Top	4.0	120	0	1,500	480.00	1.00	3,480.00
Bottom	6.0	120	0	1,500	720.00	1.00	3,720.00
Top	6.0	120	0	1,600	720.00	1.00	3,920.00
Bottom	9.0	120	0	1,600	1,080.00	1.00	4,280.00
Top	9.0	130	0	4,000	1,080.00	1.00	9,080.00
Bottom	10.0	130	0	4,000	1,210.00	1.00	9,210.00



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ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION [B-2]

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	120	0	1,800	0.00	1.00	1,800.00
Bottom	2.5	120	0	1,800	300.00	1.00	1,950.00
Top	2.5	120	0	1,800	300.00	1.00	3,900.00
Bottom	4.0	120	0	1,800	480.00	1.00	4,080.00
Top	4.0	120	0	2,000	480.00	1.00	4,480.00
Bottom	6.0	120	0	2,000	720.00	1.00	4,720.00
Top	6.0	115	0	600	720.00	1.00	1,920.00
Bottom	9.0	115	0	600	1,065.00	1.00	2,265.00
Top	9.0	130	0	4,000	1,065.00	1.00	9,065.00
Bottom	9.3	130	0	4,000	1,104.00	1.00	9,104.00
Top	9.3	140	0	4,500	1,104.00	1.00	10,104.00
Bottom	10.0	140	0	4,500	1,202.00	1.00	10,202.00

**Subsurface strength parameters can be assumed similar to boring B-1 beyond the auger refusal depth for design purposes.*

ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION [B-3]

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	120	0	1,400	0.00	1.00	1,400.00
Bottom	2.5	120	0	1,400	300.00	1.00	1,550.00
Top	2.5	120	0	1,400	300.00	1.00	3,100.00
Bottom	6.0	120	0	1,400	720.00	1.00	3,520.00
Top	6.0	120	0	1,200	720.00	1.00	3,120.00
Bottom	9.0	120	0	1,200	1,080.00	1.00	3,480.00
Top	9.0	120	0	1,600	1,080.00	1.00	4,280.00
Bottom	10.0	120	0	1,600	1,200.00	1.00	4,400.00



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SUBSURFACE STRENGTH PARAMETERS - DRILLED SHAFT FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction - Uplift (psf)
B-1	0.0 – 3.0	--	--	--
	3.0 – 4.0	24,560	430	430
	4.0 – 6.0	29,130	820	820
	6.0 – 9.0	21,330	880	880
	9.0 – 14.0	6,120	2,040	2,040
	14.0 – 19.0	16,470	440	440
	19.0 – 20.8	41,060	1,010	750
	20.8 – 26.2	42,610	2,190	2,190
	26.2 – 31.2	43,360	2,310	2,310

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction - Uplift (psf)
B-2	0.0 – 3.0	--	--	--
	3.0 – 4.0	23,190	980	980
	4.0 – 6.0	29,730	1,100	1,100
	6.0 – 9.0	38,520	320	320
	9.0 – 9.3	40,190	2,190	2,190

**Subsurface strength parameters can be assumed similar to boring B-1 beyond the auger refusal depth for design purposes.*



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Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction - Uplift (psf)
B-3	0.0 – 3.0	--	--	--
	3.0 – 6.0	12,200	770	770
	6.0 – 9.0	12,780	650	650
	9.0 – 14.0	9,600	880	880
	14.0 – 19.0	18,300	710	710
	19.0 – 20.7	39,490	380	380

**Subsurface strength parameters can be assumed similar to boring B-1 beyond the auger refusal depth for design purposes.*

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



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SEISMIC DESIGN CONSIDERATIONS

Period (seconds)	Site Coefficients	Mapped Spectral Acceleration Parameters	Adjusted Spectral Acceleration Parameters	Design Spectral Acceleration Parameters
0.2	1.6 (F_a)	$S_s = 0.173$	$S_{ms} = 0.277$	$S_{Ds} = 0.185$
1.0	2.4 (F_v)	$S_1 = 0.093$	$S_{m1} = 0.224$	$S_{D1} = 0.149$

- The site soils should be characterized as Seismic Site Class D.
- Design considerations are based on the 2018 International Building Code and the subgrade conditions encountered during this investigation.



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CONSTRUCTION **SITE DEVELOPMENT**

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

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

STRUCTURAL FILL PLACEMENT

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

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

SHALLOW FOUNDATIONS

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



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DRILLED SHAFT FOUNDATIONS

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

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

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

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



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QUALIFICATIONS

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

The subsurface conditions used in the determination of the design recommendations contained in this report are based on interpretation of subsurface data obtained at specific boring locations. Irrespective of the thoroughness of the subsurface investigation, the potential exists that conditions between borings will differ from those at the specific boring locations, that conditions are not as anticipated during the original analysis, or that the construction process has altered the soil conditions. That potential is significantly increased in locations where existing fill materials are encountered. Additionally, the nature and extent of these variations may not be evident until the commencement of construction. Therefore, a geotechnical engineer, or their representative, should observe construction practices to confirm that the site conditions do not differ from those conditions anticipated in design. If such variations are encountered, Delta Oaks Group should be contacted immediately in order to provide revisions and/or additional site exploration as necessary.

Samples obtained during our subsurface field investigation will be retained by Delta Oaks Group for a period of 30 days unless otherwise instructed by Vertical Bridge Holdings, LLC. No warranty, expressed or implied, is presented.

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



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APPENDIX



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BORING PLAN



PAGE 1 OF 1

⚠ AFTER DRILLING : --- Not measured

[illegible]

PROJECT LOCATION Liberty, Kentucky

PAGE 1 OF 1

BORING DEPTH (ft) : 9.3

AFTER DRILLING : --- Not measured

[illegible]

PROJECT LOCATION Liberty, Kentucky

PAGE 1 OF 1

⚠ AFTER DRILLING : --- Not measured

[illegible]

PAGE 1 OF 1

⚠ AFTER DRILLING : --- Not measured

[illegible]

PAGE 1 OF 1

⚠ AFTER DRILLING : --- Not measured

[illegible]

EXHIBIT H

DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at 625 Campbellsville Street, Liberty, KY42539, head northwest on Campbellsville Street toward Court House Square and travel approximately 2.3 miles.
2. Turn right onto KY-70 W and travel approximately 5.9 miles.
3. Arrive at the proposed access drive to the site on the right.
Site Address: 111 Deany Vannoy Road, Liberty, KY 42539.
Site Coordinates: 37° 16' 07.59" North latitude, 85° 03' 17.61" West longitude.



Prepared by:
Chris Shouse
Pike Legal Group PLLC
1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

EXHIBIT I

COPY OF REAL ESTATE AGREEMENT

Landlord:

Kincaid and Vannoy Real Estate Trust
[REDACTED]

Tenant:

The Towers, LLC
750 Park of Commerce Drive, Suite 200
Boca Raton, Florida 33487

Site #: US-KY-5213

Site Name: Crockets Trail

OPTION AND LEASE AGREEMENT

THIS OPTION AND LEASE AGREEMENT (this "Agreement") is made this 9th day of August, 2024 (the "Effective Date") by and between Goldia J. Kincaid and Wiley D. Vannoy, Co-Trustees of the Kincaid and Vannoy Real Estate Trust dated February 25, 2023 ("Landlord"), whose address is [REDACTED], and The Towers, LLC, a Delaware limited liability company ("Tenant"), whose address is 750 Park of Commerce Drive, Suite 200, Boca Raton, Florida 33487.

WHEREAS, Landlord owns certain real property located in the County of Casey, in the State or Commonwealth of Kentucky, that is more particularly described and/or depicted in **Exhibit 1** attached hereto (the "**Property**"); and,

WHEREAS, Tenant desires to lease from Landlord a certain portion of the Property measuring approximately 10,000 square feet and to obtain easements for landscape buffer, utilities and access (collectively, the "**Premises**"), which Premises is more particularly described and/or depicted in **Exhibit 2** attached hereto, for the placement of Communications Facilities (defined below).

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree:

1. OPTION TO LEASE.

(a) As of the Effective Date, Landlord grants to Tenant the exclusive option to lease the Premises (the "**Option**") during the Option Period (defined below). At any time during the Option Period and Term (defined below), Tenant and its agents, engineers, surveyors and other representatives will have the right to enter upon the Property to inspect, examine, conduct soil borings, drainage testing, material sampling, and other geological or engineering tests or studies of the Property (collectively, the "**Tests**"), to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant's sole discretion for its use of the Premises including, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, construction permits and any other permits and approvals deemed necessary by Tenant (collectively, the "**Government Approvals**"), initiate the ordering and/or scheduling of necessary utilities, obtain a title report with respect to the Property, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Property, the environmental history of the Property, and the feasibility or suitability of the Property for Tenant's permitted use under this Agreement, all at Tenant's expense. Tenant shall be authorized to apply for the Government Approvals on

behalf of Landlord and Landlord agrees to reasonably cooperate with such applications. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant's Tests. Tenant will restore the Property to its condition as it existed prior to conducting any Tests, reasonable wear and tear and casualty not caused by Tenant excepted. In addition, Tenant shall indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or claims arising directly out of Tenant's Tests.

(b) In consideration of Landlord granting Tenant the Option, Tenant agrees to pay Landlord the sum of [REDACTED] within thirty (30) days of the full execution of this Agreement. The Option Period will be for a term of four (4) years from the Effective Date (the "**Option Period**").

(c) Tenant may exercise the Option at any time during the Option Period by delivery of written notice to Landlord (the "**Notice of Exercise of Option**"). The Notice of Exercise of Option shall set forth the commencement date (the "**Commencement Date**") of the Initial Term (defined below). If Tenant does not provide a Notice of Exercise of Option during the Option Period, this Agreement will terminate and the parties will have no further liability to each other.

(d) During the Option Period or the Term, Landlord shall not take any action to change the zoning status or land use of the Property which would diminish, impair, or adversely affect the use of the Premises by Tenant for its permitted uses hereunder.

2. TERM.

(a) Effective as of the Commencement Date, Landlord leases the Premises to Tenant subject to the terms and conditions of this Agreement for an initial term of five (5) years (the "**Initial Term**").

(b) Tenant shall have the option to extend the Initial Term for Nine (9) successive terms of Five (5) years each (each a "**Renewal Term**"). Each Renewal Term shall commence automatically, unless Tenant delivers notice to Landlord, not less than thirty (30) days prior to the end of the then-current Term, of Tenant's intent not to renew. For purposes of this Agreement, "**Term**" shall mean the Initial Term and any applicable Renewal Term(s).

3. RENT

(a) Beginning on the first (1st) day of the first (1st) month after the Commencement Date ("**Rent Commencement Date**"), Tenant shall pay to Landlord a monthly rent payment of [REDACTED] ("**Rent**") at the address set forth in Section 29 above on or before the fifth (5th) day of each calendar month in advance. The initial payment of Rent will be forwarded by Tenant to Landlord within thirty (30) days after the Rent Commencement Date.

(b) The Rent shall increase by [REDACTED] annually on each anniversary of the Rent Commencement Date.

4. TAXES. Tenant shall pay any personal property taxes assessed on, or any portion of such taxes attributable to, the Communications Facilities located on the Premises. Landlord shall pay when due all real property taxes and all other fees and assessments attributable to the Property and the Premises. Tenant shall pay as additional rent any increase in real property taxes levied against the Premises, which are directly attributable to Tenant's use of the Premises (but not, however, taxes attributable to periods prior to the Commencement Date such as roll-back or greenbelt assessments) if Landlord furnishes proof of such

increase to Tenant (such increase, the "**Landlord Tax Reimbursement**"). In the event that Landlord fails to pay when due any taxes affecting the Premises or any easement relating to the Premises, Tenant shall have the right, but not the obligation, to pay such taxes and any applicable interest, penalties or similar charges, and deduct the full amount of the taxes and such charges paid by Tenant on Landlord's behalf from future installments of Rent. Notwithstanding the foregoing, Tenant shall not have the obligation to pay any tax, assessment, or charge that Tenant is disputing in good faith in appropriate proceedings prior to a final determination that such tax is properly assessed, provided that no lien attaches to the Property. In addition, Tenant shall not have the obligation to pay or reimburse Landlord for the Landlord Tax Reimbursement if Landlord has not provided proof of such amount and demand therefor within one (1) year of the date such amount is due and payable by Landlord.

5. USE. The Premises are being leased for the purpose of erecting, installing, operating, maintaining, repairing and replacing radio or communications towers, transmitting and receiving equipment, antennas, dishes, satellite dishes, mounting structures, equipment shelters and buildings, solar energy conversion and electrical power generation system, fencing and other supporting structures and related equipment (collectively, the "**Communications Facilities**"), and to alter, supplement and/or modify same. Tenant may, subject to the foregoing, make any improvements, alterations or modifications to the Premises as are deemed appropriate by Tenant for the permitted use herein. Tenant shall have the right to clear the Premises of any trees, vegetation, or undergrowth which interferes with the use of the Premises for the intended purposes by Tenant and/or its subtenants and licensees, as applicable. Tenant shall have the exclusive right to install and operate the Communications Facilities upon the Premises.

6. ACCESS AND UTILITIES. During the Term, Tenant and its guests, agents, employees, customers, invitees, subtenants, licensees and assigns shall have the unrestricted, exclusive right to use, and shall have free and unfettered access to, the Premises seven (7) days a week, twenty-four (24) hours a day. Landlord for itself, its successors and assigns, hereby grants and conveys unto Tenant, its customers, employees, agents, invitees, subtenants, licensees, successors and assigns a non-exclusive easement throughout the Term to a public right of way (a) for ingress and egress, and (b) for the construction, installation, operation, maintenance, repair and replacement of overhead and underground electric and other utility facilities (including fiber, backhaul, wires, poles, guys, cables, conduits and appurtenant equipment), with the right to reconstruct, improve, add to, enlarge, change and remove such facilities, over, across and through any easement for the benefit of and access to the Premises, subject to the terms and conditions herein set forth. Landlord agrees to coordinate, cooperate and assist Tenant with obtaining the required access and utility easements to the Premises from a public right of way up to and including negotiating and obtaining such access and utility rights from any applicable neighbor parcel. If there are utilities already existing on the Premises which serve the Premises, Tenant may utilize such utilities and services. The rights granted to Tenant herein shall also include the right to partially assign its rights hereunder to any public or private utility company or authority to facilitate the uses contemplated herein, and all other rights and privileges reasonably necessary for Tenant's safe and efficient use and enjoyment of the easements for the purposes described above. Upon Tenant's request, Landlord shall execute and deliver to Tenant requisite recordable documents evidencing the easements contemplated hereunder within fifteen (15) days of Tenant's request, and Landlord shall obtain the consent and joinder of Landlord's mortgagee to any such grant, if applicable.

7. EQUIPMENT, FIXTURES AND REMOVAL. The Communications Facilities shall at all times be the personal property of Tenant and/or its subtenants and licensees, as applicable. Tenant or its customers, subtenants or licensees shall have the right to erect, install, maintain, repair, replace and operate on the Premises such equipment, structures, fixtures, signs, and personal property as Tenant, its customers, subtenants or licensees may deem necessary or appropriate, and such property, including the equipment, structures, fixtures, signs, and personal property currently on the Premises, shall not be deemed to be part

of the Premises, but shall remain the property of Tenant or its customers, subtenants or licensees. Within ninety (90) days after the expiration or earlier termination of this Agreement (the "**Removal Period**"), Tenant, customers, subtenants or licensees shall remove its improvements and personal property and restore the Premises to grade and perform all obligations under this Agreement during the Removal Period, including, without limitation, the payment of Rent at the rate in effect upon the expiration or termination of this Agreement.

8. ASSIGNMENT AND SUBLEASE. Tenant may transfer or assign this Agreement to Tenant's Lender (defined below), principal, affiliates, subsidiaries, subsidiaries of its principal or to any entity which acquires all of or substantially all of Tenant's assets or ownership interests by reasons of merger, acquisition or other business reorganization without Landlord's consent (a "**Permitted Assignment**"). As to transfers or assignments which do not constitute a Permitted Assignment, Tenant is required to obtain Landlord's written consent prior to effecting such transfer or assignment, which consent shall not be unreasonably withheld, conditioned or delayed. Upon such assignment, including a Permitted Assignment, Tenant will be relieved and released of all obligations and liabilities hereunder. Tenant shall have the exclusive right to sublease or grant licenses without Landlord's consent to use all or part of the Premises and/or the Communications Facilities, but no such sublease or license shall relieve or release Tenant from its obligations under this Agreement. Landlord may assign this Agreement only in its entirety and only to any person or entity who or which acquires fee title to the Property, subject to Section 15. Landlord may subdivide the Property without Tenant's prior written consent provided the resulting parcels from such subdivision are required to afford Tenant the protections set forth in Section 14 hereof.

9. COVENANTS, WARRANTIES AND REPRESENTATIONS.

(a) Landlord warrants and represents that it is the owner in fee simple of the Property, free and clear of all liens and encumbrances except as to those which may have been disclosed to Tenant in writing prior to the execution hereof, and that it alone has full right to lease the Premises for the Term.

(b) Landlord shall pay promptly, when due, any other amounts or sums due and owing with respect to its ownership and operation of the Property, including, without limitation, judgments, taxes, liens, mortgage payments and other similar encumbrances. If Landlord fails to make any payments required under this Agreement, or breaches any other obligation or covenant under this Agreement, Tenant may (without obligation), after providing ten (10) days written notice to Landlord, make such payment or perform such obligation on behalf of Landlord and offset such payment (including any reasonable attorneys' fees incurred in connection with Tenant performing such obligation) against payments of Rent.

(c) Landlord shall not do or knowingly permit anything that will interfere with or negate any special use permit or approval pertaining to the Premises or cause Tenant's use of the Premises to be in nonconformance with applicable local, state, or federal laws. Landlord shall cooperate with Tenant in any effort by Tenant to obtain certificates, permits, licenses and other approvals that may be required by any governmental authorities. Landlord agrees to execute any necessary applications, consents or other documents as may be reasonably necessary for Tenant to apply for and obtain the Government Approvals required to use and maintain the Premises and the Communications Facilities.

(d) To the best of Landlord's knowledge, Landlord has complied and shall comply with all laws with respect to the Property. No asbestos-containing thermal insulation or products containing PCB, formaldehyde, chlordane, or heptachlor or other hazardous materials have been placed on or in the Property by Landlord or, to the knowledge of Landlord, by any prior owner or user of the Property. There has been no release of or contamination by hazardous materials on the Property by Landlord, or to the knowledge of Landlord, any prior owner or user of the Property.

(e) Tenant shall have access to all utilities required for the operation of Tenant's improvements on the Premises that are existing on the Property.

(f) Landlord warrants and represents that there currently exist no licenses, sublicenses, or other agreements, written or oral, granting to any party or parties the right of use or occupancy of any portion of the Property; there are no outstanding options or rights of first refusal to purchase the Property or any portion thereof or interest therein, or any equity or interest in Landlord if Landlord is an entity; and there are no parties (other than Landlord) in possession of the Property except as to those that may have been disclosed to Tenant in writing prior to the execution hereof.

10. HOLD OVER TENANCY. Should Tenant or any assignee, sublessee or licensee of Tenant hold over the Premises or any part thereof after the expiration of this Agreement, such holdover shall constitute and be construed as a tenancy from month-to-month only, but otherwise upon the same terms and conditions.

11. INDEMNITIES. Each party agrees to indemnify, defend and hold harmless the other party, its parent company or other affiliates, successors, assigns, officers, directors, shareholders, managers, members, agents and employees (collectively, "**Indemnified Persons**") from and against all claims, actions, judgments, damages, liabilities, losses, expenses and costs (including, without limitation, reasonable attorneys' fees and court costs) (collectively, "**Losses**") caused by or arising out of (a) such party's breach of any of its obligations, covenants, representations or warranties contained herein, or (b) such party's acts or omissions with regard to this Agreement; provided, however, in no event shall a party indemnify the other party for any such Losses to the extent arising from the gross negligence or willful misconduct of the party seeking indemnification. However, in the event of an Indemnified Person's contributory negligence or other fault, the Indemnified Person shall not be indemnified hereunder to the extent that the Indemnified Person's negligence or other fault caused such Losses. Tenant will indemnify Landlord from and against any mechanic's liens or liens of contractors and subcontractors engaged by or through Tenant.

12. WAIVERS.

(a) Landlord hereby waives any and all lien rights it may have, statutory or otherwise, in and to the Communications Facilities or any portion thereof, regardless of whether or not such is deemed real or personal property under applicable laws. Landlord will not assert any claim whatsoever against Tenant for loss of anticipatory profits or any other indirect, special, incidental or consequential damages incurred by Landlord as a result of the construction, maintenance, operation or use of the Premises by Tenant.

(b) EACH PARTY HERETO WAIVES ANY AND ALL CLAIMS AGAINST THE OTHER FOR ANY LOSS, COST, DAMAGE, EXPENSE, INJURY OR OTHER LIABILITY WHICH IS IN THE NATURE OF INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES WHICH ARE SUFFERED OR INCURRED AS THE RESULT OF, ARISE OUT OF, OR ARE IN ANY WAY CONNECTED TO THE PERFORMANCE OF THE OBLIGATIONS UNDER THIS AGREEMENT.

13. INSURANCE. Tenant shall insure against property damage and bodily injury arising by reason of occurrences on or about the Premises in the amount of not less than [REDACTED]. The insurance coverage provided for herein may be maintained pursuant to master policies of insurance covering other communication facilities of Tenant and its corporate affiliates. All insurance policies required to be maintained by Tenant hereunder shall be with responsible insurance companies, authorized to do business

in the State or Commonwealth where the Premises are located if required by law, and shall provide for cancellation only upon ten (10) days' prior written notice to Landlord. Tenant shall evidence such insurance coverage by delivering to Landlord, if requested, a copy of a certificate of insurance of such policies issued by the insurance companies underwriting such risks.

14. INTERFERENCE. During the Option Period and the Term, Landlord, its successors and assigns, will not grant any ground lease, license, or easement with respect to the Property (outside of the Premises) and any property adjacent or contiguous to the Property or in the immediate vicinity of the Property that is fee owned by Landlord: (a) for any of the uses contemplated in Section 5 herein; or (b) if such lease, license, or easement would detrimentally impact the Communications Facilities or Tenant's economic opportunities at the Premises, or the use thereof. Landlord shall not cause or permit the construction of communications or broadcast towers or structures, fiber optic backhaul facilities, or satellite facilities on the Property or on any other property of Landlord adjacent or contiguous to or in the immediate vicinity of the Property, except for the Communications Facilities constructed by Tenant. Landlord and Tenant intend by this Agreement for Tenant (and persons deriving rights by, through, or under Tenant) to be the sole parties to market, use, or sublease any portion of the Property for Communications Facilities during the Option Period and the Term. Landlord agrees that this restriction on the use of the Property is commercially reasonable, not an undue burden on Landlord, not injurious to the public interest, and shall be specifically enforceable by Tenant (and persons deriving rights by, through or under Tenant) in a court of competent jurisdiction. The foregoing restriction shall run with the land and be binding on the successors and assigns of Landlord.

15. RIGHT OF FIRST REFUSAL. In the event Landlord determines to sell, transfer, license or otherwise convey any interest, whether fee simple interest, easement interest, leasehold, or otherwise, and whether direct or indirect by way of transfer of ownership interests in Landlord if Landlord is an entity, which interest underlies or affects any or all of the Premises (the "**ROFR Property**") to any third party that is a Third Party Competitor (as defined below), Landlord shall offer Tenant a right of first refusal to purchase the Premises (or such larger portion of the Property that encompasses the Premises, if applicable). For purposes herein, a "**Third Party Competitor**" is any person or entity directly or indirectly engaged in the business of owning, acquiring, operating, managing, investing in or leasing communications infrastructure or any person or entity directly or indirectly engaged in the business of owning, acquiring, or investing in real property leases or easements underlying communications infrastructure. In such event, Landlord shall send a written notice to Tenant in accordance with Section 29 below that shall contain an offer to Tenant of a right of first refusal to purchase the ROFR Property, together with a copy of any offer to purchase, or any executed purchase agreement or letter of intent (each, an "**Offer**"), which copy shall include, at a minimum, the purchase price or acquisition price, proposed closing date, and financing terms (collectively, the "**Minimum Terms**"). Within thirty (30) days of receipt of such Offer, Tenant shall provide written notice to Landlord of Tenant's election to purchase the ROFR Property on the same Minimum Terms, provided: (a) the closing date shall be no sooner than sixty (60) days after Tenant's purchase election notice; (b) given Landlord's direct relationship and access to Tenant, Tenant shall not be responsible for payment of any broker fees associated with an exercise of Tenant's rights to acquire the ROFR Property; and, (c) Tenant shall not be required to match any components of the purchase price which are speculative or incalculable at the time of the Offer. In such event, Landlord agrees to sell the ROFR Property to Tenant subject to Tenant's payment of the purchase price and compliance with a purchase and sale agreement to be negotiated in good faith between Landlord and Tenant. If Tenant provides written notice that it does not elect to exercise its right of first refusal to purchase the ROFR Property, or if Tenant does not provide notice of its election within the thirty (30) day period, Tenant shall be deemed to have waived such right of first refusal only with respect to the specific Offer presented (and any subsequent Offers shall again be subject to Tenant's continuing right of first refusal hereunder), and Landlord shall be permitted to consummate the sale of the ROFR Property in accordance with the strict terms of the Offer

("Permitted Sale"). If Landlord does not consummate the Permitted Sale within ninety (90) days of the date of Tenant's waiver of its right of first refusal, including if the Minimum Terms are modified between Landlord and the Third Party Competitor, Landlord shall be required to reissue a New Offer to Tenant.

16. SECURITY. The parties recognize and agree that Tenant shall have the right to safeguard and protect its improvements located upon or within the Premises. Consequently, Tenant may elect, at its expense, to construct such enclosures and/or fences as Tenant reasonably determines to be necessary to secure the Communications Facilities. Tenant may also undertake any other appropriate means to restrict access to the Communications Facilities including, without limitation, if applicable, installing security systems, locks and posting signs for security purposes and as may otherwise be required by law.

17. FORCE MAJEURE. The time for performance by Landlord or Tenant of any term, provision, or covenant of this Agreement shall be deemed extended by time lost due to delays resulting from acts of God, strikes, civil riots, floods, pandemics, material or labor restrictions by governmental authority, government shutdowns, quarantines, and/or other disease control measures and any other cause not within the control of Landlord or Tenant, as the case may be.

18. CONDEMNATION; CASUALTY.

(a) In the event Landlord receives any notice of any condemnation proceedings, or other proceedings in the nature of eminent domain related to the Property or the Premises, it will forthwith send a copy of such notice to Tenant. If all or any part of the Premises is taken by eminent domain, Tenant may, upon written notice to Landlord, elect to terminate this Agreement, whereupon neither party shall have any further liability or obligation hereunder. Notwithstanding any provision of this Agreement to the contrary, in the event of condemnation of all or any part of the Premises, Landlord and Tenant shall be entitled to separate awards with respect to the Premises, in the amount determined by the court conducting such condemnation proceedings based upon Landlord's and Tenant's respective interests in the Premises. If a separate condemnation award is not determined by such court, Landlord shall permit Tenant to participate in the allocation and distribution of the award. In no event shall the condemnation award to Landlord exceed the unimproved value of the Premises, without taking into account the improvements located thereon.

(b) In case of damage to the Premises or the Communications Facilities by fire or other casualty, Landlord shall, at its expense, cause any damage to the Property (excluding the Communications Facilities) to be repaired to a condition as nearly as practicable to that existing prior to the damage, with reasonable speed and diligence, subject to delays which may arise by reason of adjustment of loss under insurance policies, governmental regulations, and for delays beyond the control of Landlord, including a force majeure. Landlord shall coordinate with Tenant as to the completion of Landlord's work to restore the Property so as not to adversely impact Tenant's use of the Premises and the Communications Facilities. Landlord shall not be liable for any inconvenience or annoyance to Tenant, or injury to Tenant's business or for any consequential damages resulting in any way from such damage or the repair thereof, except to the extent and for the time that the Communications Facilities or the Premises are thereby rendered unusable for Tenant's intended purpose the Rent shall proportionately abate. In the event the damage shall be so extensive that Tenant shall decide, in its sole discretion, not to repair or rebuild the Communications Facilities, or if the casualty shall not be of a type insured against under standard fire policies with extended type coverage, or if the holder of any mortgage, deed of trust or similar security interest covering the Communications Facilities shall not permit the application of adequate insurance proceeds for repair or restoration, this Agreement shall, at the sole option of Tenant, exercisable by written notice to Landlord, be terminated as of the date of such casualty, and the obligation to pay Rent (taking into account any abatement as aforesaid) shall cease as of the termination date and Tenant shall thereupon promptly vacate the Premises.

19. DEFAULT. The failure of Tenant or Landlord to perform any of the covenants of this Agreement shall constitute a default. The non-defaulting party shall give the other written notice of such default, and the defaulting party shall cure such default within thirty (30) days after receipt of such notice. In the event any such default cannot reasonably be cured within such thirty (30) day period, if the defaulting party shall proceed promptly after the receipt of such notice to cure such default, and shall pursue curing such default with due diligence, the time for curing shall be extended for such period of time as may be necessary to complete such curing, however, in no event shall this extension of time be in excess of sixty (60) days, unless agreed upon by the non-defaulting party.

20. REMEDIES. Should the defaulting party fail to cure a default under this Agreement, the other party shall have all remedies available either at law or in equity, and the right to terminate this Agreement. In the event Landlord elects to terminate this Agreement due to a default by Tenant (which remains uncured by Lender), Landlord shall continue to honor all sublease and license commitments made by Tenant through the expiration of the term of any such commitment and shall be entitled to collect and retain the rents or license fees associated with such subleases or license commitments, it being intended hereby that each such commitment shall survive the early termination of this Agreement.

21. ATTORNEYS' FEES. If there is any legal proceeding between Landlord and Tenant arising from or based on this Agreement, each Party shall bear their own costs and expenses, including, without limitation, attorneys' fees and disbursements in such action or proceeding and in any appeal in connection therewith.

22. ADDITIONAL TERMINATION RIGHT. If at any time during the Term, Tenant determines, in Tenant's sole and absolute discretion, with or without cause, that the Premises is no longer suitable or desirable for Tenant's intended use and/or purposes, Tenant shall have the right to terminate this Agreement upon sixty (60) days prior written notice to Landlord.

23. PRIOR AGREEMENTS. The parties hereby covenant, recognize and agree that the terms and provisions of this Agreement shall constitute the sole embodiment of the arrangement between the parties with regard to the Premises, and that all other written or unwritten agreements, contracts, or leases by and between the parties with regard to the Premises are hereby terminated, superseded and replaced by the terms hereof.

24. SUBORDINATION, NON-DISTURBANCE AND ATTORNMENT. In the event the Property is encumbered by a mortgage or deed of trust or other security instrument of any kind (a "**Landlord Mortgage**"), Landlord, within fifteen (15) days following Tenant's request or immediately prior to the creation of any encumbrance created after the date this Agreement is fully executed, will obtain from the holder of each such Landlord Mortgage a fully-executed subordination, non-disturbance and attornment agreement (an "**SNDA**") in recordable form, which shall be prepared or approved by Tenant. The holder of every such Landlord Mortgage shall, in the SNDA, agree that in the event of a foreclosure, or conveyance in lieu of foreclosure of Landlord's interest in the Premises, such Landlord Mortgage holder shall recognize and confirm the validity and existence of this Agreement, not disturb the tenancy of Tenant (and its customers, subtenants, and licensees) and Tenant (and its customers, subtenants, and licensees) shall have the right to continue its use and occupancy of the Premises in accordance with the provisions of this Agreement, provided Tenant is not in default of this Agreement beyond applicable notice and cure periods.

25. LENDER'S RIGHTS.

(a) Landlord agrees to recognize the subleases and licenses of all subtenants and licensees and will permit each of them to remain in occupancy of its premises notwithstanding any default hereunder by Tenant so long as each such respective subtenant or licensee is not in default under the lease/license covering its premises. Landlord agrees to execute such documents as any such subtenant and/or licensee might reasonably require, including customary subordination, non-disturbance and attornment agreements and/or Landlord recognition agreements, to further memorialize the foregoing, and further agrees to use Landlord's best efforts to also cause its lenders to similarly acknowledge, in writing, subtenant's and licensee's right to continue to occupy its premises as provided above.

(b) Tenant shall have the right from time to time to mortgage or otherwise encumber Tenant's interest in this Agreement, the Communications Facilities and/or leasehold estate in the Premises (a "**Tenant Mortgage**") and Landlord consents to the granting by Tenant of a lien and security interest in Tenant's interest in this Agreement and/or leasehold estate of the Premises and all of Tenant's personal property and fixtures attached to the real property described herein, and furthermore consents to the exercise by any such lender of Tenant ("**Lender**") of its rights of foreclosure with respect to its lien and security interest. Landlord agrees to recognize Lender as Tenant hereunder upon any such exercise by Lender of its rights of foreclosure. The term "**Lender**" as used in this Agreement shall mean the lender identified in Section 29 hereof and its successors, assigns, designees or nominees.

(c) Landlord hereby agrees to give Lender written notice of any breach or default of Tenant of the terms of this Agreement within fifteen (15) days after the occurrence thereof at the address set forth in Section 29. Landlord further agrees that no default under this Agreement by Tenant shall be deemed to have occurred unless such notice to Lender is also given and that, in the event of any such breach or default under the terms of this Agreement, Lender shall have the right, to the same extent, for the same period and with the same effect, as Tenant, plus an additional ninety (90) days after any applicable grace period to cure or correct any such default.

(d) Landlord acknowledges that nothing contained herein shall be deemed or construed to obligate Lender to take any action hereunder, or to perform or discharge any obligation, duty or liability of Tenant under this Agreement. Lender shall not become liable under the provisions of this Agreement or any lease executed pursuant to Section 26 hereof unless and until such time as it becomes, and then only for as long as it remains, the owner of the leasehold estate created hereby or thereby.

(e) This Agreement shall not be amended or modified without the consent of Lender. In the event that Lender shall become the owner of such leasehold estate, Lender shall not be bound by any modification or amendment of this Agreement made subsequent to the date of a Tenant Mortgage unless Lender shall have consented to such modification or amendment at the time it was made.

26. RIGHT TO NEW LEASE.

(a) In the case of termination of this Agreement for any reason, or in the event this Agreement is rejected or disaffirmed pursuant to any bankruptcy, insolvency or other law affecting creditor's rights, Landlord shall give prompt notice thereof to Lender at the address set forth in Section 29 or as may be provided to Landlord by Tenant following the Commencement Date. Thereafter, Landlord, upon written request of Lender, and within thirty (30) days after the receipt of such request, shall promptly execute and deliver a new lease of the Premises and assignment of all subleases and licenses to Lender or its designee or nominee, for the remainder of the Term upon all the covenants, conditions, limitations and agreements contained herein (including, without limitation, options to extend the Term) except for such provisions which must be modified to reflect such termination, rejection or disaffirmance and the passage of time, provided that Lender (i) shall pay to Landlord, simultaneously with the delivery of such new lease, all

unpaid rent due under this Agreement up to and including the date of the commencement of the term of such new lease and all reasonable expenses, including, without limitation, reasonable attorneys' fees and disbursements and court costs, incurred by Landlord in connection with the default by Tenant, the termination of this Agreement and the preparation of the new lease, and (ii) shall cure all defaults existing under this Agreement which are susceptible to being cured by Lender promptly and with due diligence after the delivery of such new lease. Notwithstanding anything to the contrary contained herein, provided Lender shall have otherwise complied with the provisions of this Section, Lender shall have no obligation to cure any defaults which are not susceptible to being cured by Lender (for example, the bankruptcy of Tenant).

(b) For so long as Lender shall have the right to enter into a new lease with Landlord pursuant to this Section, Landlord shall not enter into a new lease of the Premises with any person or entity other than Lender, without the prior written consent of Lender.

27. ADDITIONAL PROVISIONS.

(a) The parties hereto agree that (i) Tenant is in possession of the Premises notwithstanding the fact that Tenant has subleased or licensed, or may in the future sublease or license, certain of the improvements thereon or portions of the Premises to third parties, and (ii) the requirements of Section 365(h) of Title 11 of the United States Code (the Bankruptcy Code) with respect to Tenant's possession of the leasehold under this Agreement are satisfied. Accordingly, the right of Tenant to remain in possession of the leasehold under this Agreement shall continue notwithstanding any rejection of this Agreement in any bankruptcy proceeding involving Landlord, or any other actions by any party in such a proceeding. This provision, while included in this Agreement, has been separately negotiated and shall constitute a separate contract between the parties as well as a part of this Agreement. The provisions of this Section are for the benefit of Tenant and its assigns, including, without limitation, Lender. The parties hereto also agree that Lender is a party in interest and shall have the right to appear as a party in any proceeding brought under any bankruptcy law or under any other law which may affect this Agreement.

(b) The provisions of Section 25 and Section 26 hereof shall survive the termination, rejection or disaffirmance of this Agreement and shall continue in full force and effect thereafter to the same extent as if such Sections were a separate and independent contract made by Landlord, Tenant and Lender and, from the effective date of such termination, rejection or disaffirmance of this Agreement to the date of execution and delivery of such new lease, Lender may use and enjoy the leasehold estate created by this Agreement without hindrance by Landlord. The aforesaid agreement of Landlord to enter into a new lease with Lender shall be deemed a separate agreement between Landlord and Lender, separate and apart from this Agreement as well as a part of this Agreement, and shall be unaffected by the rejection of this Agreement in any bankruptcy proceeding by any party.

(c) Landlord shall have no right, and expressly waives any right arising under applicable law, in and to the rentals or other fees payable to Tenant, if any, under any sublease or license of the Premises by Tenant, which rentals or fees may be assigned by Tenant to Lender.

(d) If a Tenant Mortgage is in effect, this Agreement shall not be modified or amended by the parties hereto, or terminated or surrendered by Tenant, nor shall Landlord accept any such termination or surrender of this Agreement by Tenant, without the prior written consent of Lender.

(e) The provisions of Section 25 and Section 26 hereof are for the benefit of Lender and may be relied upon and shall be enforceable by Lender as if Lender were a party to this Agreement.

(f) Landlord shall, within ten (10) days of the request of Tenant or any Lender or prospective Lender, provide an estoppel certificate as to any matters reasonably requested by Tenant or Lender.

(g) The right to extend or renew this Agreement and any right of first refusal to purchase the Premises may be exercisable by the holder of a Tenant Mortgage and, before the expiration of any periods to exercise such a right, Landlord must provide to Lender at least thirty (30) days prior written notice before the expiration of the right to so extend or renew in order to extinguish Lender's right to so extend, renew or purchase.

(h) Under no circumstances shall the fee estate of Landlord and the leasehold estate created hereby merge, even though owned by the same party, without the written consent of the holder of a Tenant Mortgage.

28. QUIET ENJOYMENT. So long as Tenant is not in default under this Agreement beyond the applicable notice and cure period, Landlord covenants and agrees that Tenant shall peaceably and quietly hold and enjoy the Premises throughout the Term, without any hindrance, molestation or ejection by Landlord, its successors or assigns or by those claiming by, through or under them.

29. NOTICES. All notices, requests, claims, demands, and other communications hereunder shall be in writing and may be hand delivered (provided the deliverer provides proof of delivery) or sent by nationally established overnight courier that provides proof of delivery, or certified or registered mail (postage prepaid, return receipt requested). Notice shall be deemed received on the date of delivery as demonstrated by the receipt of delivery. Notices shall be delivered to a party at the party's respective address below, or to such other address that a party below may provide from time to time:

If to Landlord:

Goldia J. Kincaid and Wiley
D. Vannoy
[REDACTED]

If to Tenant:

The Towers, LLC
750 Park of Commerce Drive,
Suite 200
Boca Raton, Florida 33487
Ref: US-KY-5213
Attn: VP Asset Management

If to Lender:

Toronto Dominion (Texas) LLC
[REDACTED]
Attn: Admin Agent
Fax No. [REDACTED]

With a copy to: General Counsel

30. MISCELLANEOUS.

(a) Each party hereto warrants and represents that it has the necessary power and authority to enter into and perform its respective obligations under this Agreement.

(b) If any term of this Agreement is found to be void or invalid, such invalidity shall not affect the remaining terms of this Agreement, which shall continue in full force and effect.

(c) All attached exhibits are hereby incorporated by this reference as if fully set forth herein.

(d) Failure of a party to insist on strict performance of any of the conditions or provisions of this Agreement, or failure to exercise any of a party's rights hereunder, shall not waive such rights.

(e) This Agreement shall be governed by and construed in accordance with the laws of the State or Commonwealth in which the Premises are located.

(f) This Agreement constitutes the entire agreement and understanding of the parties and supersedes all offers, negotiations, other leases and/or agreements with regard to the Premises. There are no representations or understandings of any kind not set forth herein. Any amendment to this Agreement must be in writing and executed by both parties.

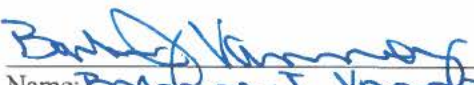

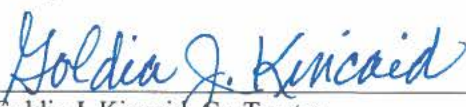

(g) This Agreement shall be binding upon and shall inure to the benefit of the parties hereto and their respective heirs, legal representatives, successors and assigns.

(h) A short-form Memorandum of Option to Lease (and a short-form Memorandum of Lease in the event Tenant exercises its option to lease the Premises) may be recorded at Landlord's or Tenant's option in the form as depicted in **Exhibit 3** and **Exhibit 4**, respectively, attached hereto. In addition, Tenant's subtenants and licensees shall have the right to record a memorandum of its sublease or license with Tenant.

(i) Landlord shall keep the terms of this Agreement confidential and shall not disclose any terms contained within this Agreement to any third party other than such terms as are set forth in the Memorandum of Option to Lease or Memorandum of Lease.

SIGNATURES BEGIN ON NEXT PAGE

IN WITNESS WHEREOF, the parties hereto have executed this Agreement as of the Effective Date (date last signed by a party hereto).

WITNESSES:	LANDLORD:
 Name: <u>Barbara J. Vannoy</u>	The Kincaid and Vannoy Real Estate Trust dated February 25, 2023
 Name: <u>Gina M. Hood</u>	By:  Goldia J. Kincaid, Co-Trustee
	Date: <u>6-30-2024</u>
	By:  Wiley D. Vannoy, Co-Trustee
	Date: <u>6-30-2024</u>

STATE OF Ohio

COUNTY OF Hamilton

The foregoing instrument was acknowledged before me this 30th
June, 2024 by Goldia J. Kincaid and Wiley D. Vannoy, Co-Trustees of the Kincaid and Vannoy Real Estate Trust dated February 25, 2023 on behalf of the trust.


Notary Public


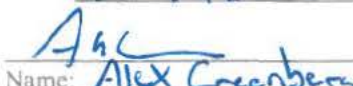

Print Name: Barbara J. Vannoy

My Commission Expires:



BARBARA J. VANNOY
Notary Public, State of Ohio
My Commission Expires:
July 27, 2026

(Tenant signature page to Option and Lease Agreement)


WITNESSES:  Name: <u>Edward Davis</u>  Name: <u>Alex Greenberg</u>	TENANT: The Towers, LLC a Delaware limited liability company By:  Name: <u>Randy Wilson</u> Title: <u>Vice President Development</u> Date: <u>8/9/2024</u>
---	--

STATE OF FLORIDA

Leasing Ops ^{DS} LG

COUNTY OF PALM BEACH

The foregoing instrument was acknowledged before me this August 9th, 2024 by Randy Wilson (name of signatory), VP Dev. (title of signatory) of The Towers, LLC, a Delaware limited liability company, on behalf of the company.


Notary Public

Print Name: Esther Nelson

My Commission Expires: 11/13/2027

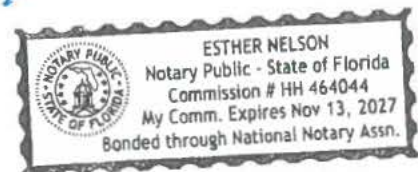
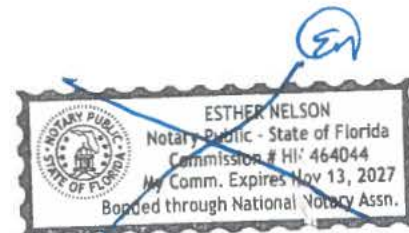


EXHIBIT 1

Legal Description of the Property (Parent Parcel)

(may be updated by Tenant upon receipt of final legal description from title)

All that tract or parcel of land located in the County of Casey, State of Kentucky, on the waters of Woods Creek being more particularly described as follows:

Beginning on a black gum on the South side of the public road, thence a North course 105 poles to a stone corner of Lot No. 1, in Mays division; thence W 56 poles to a Hickory and Dogwood, near a poplar and ash corner to 100 acre survey made in the name of Edward Goode thence N 7 1/4 W 44 poles to a thence S 39 W 58 poles to a Whiteoak in line of 900 acre survey; thence S 58 poles to a Blackoak on North side of public road; thence with county road, S 5 N _ poles to an agreed corner to the beginning, containing 45 acres, more or less.

Exception: There is excepted from the above described real property and not conveyed herein, the following described real property:

Beginning at a rebar and cap set in the West boundary of the source of title at a fence corner, the Northwest corner of an exclusion now owned by Howard Helm Deed Book 114, Page 512; thence along the fence with Ronnie Atwood Deed Book 92, Page 195 North 00 degrees 00 minutes 00 seconds East 475.77 feet to a rebar and cap set in a fence row 280.00 feet South of a fence corner; thence severing the source of title South 70 degrees 52 minutes 11 seconds East 685.84 feet to a point a new corner (a rebar and cap will be set when the corn is harvested), South 16 degrees 45 minutes 01 seconds West 514.88 feet to a rebar and cap set on the North right of way of Kentucky Route No. 70 also a new corner; thence along the same 30 ft. North of the center line North 71 degrees 14 minutes 18 seconds West 186.87 ft. to a rebar and cap set common to Helm again; thence leaving the highway with Helm North 14 degrees 56 minutes 15 seconds East 76.17 ft. to a rebar and cap set in a fence row; thence along the same North 72 degrees 26 minutes 15 seconds West 359.00 ft. to the point of beginning, containing 6.611 acres, as surveyed and platted September, 2002, by Richard A. Montgomery, KY PLS No. 1953.

Parcel ID: 025-21

This being the same property conveyed to Goldia J. Kincaid and Wiley D. Vannoy, Co-Trustees of The Kincaid and Vannoy Real Estate Trust dated February 25, 2023 from Goldia J. Kincaid and Wiley D. Vannoy in a general warranty deed dated February 25, 2023 and recorded April 17, 2023 in book D345 page 635 as instrument 167494 in Casey County, Kentucky.

EXHIBIT 2

Premises

(below may be replaced with a final survey and legal description of the Premises)

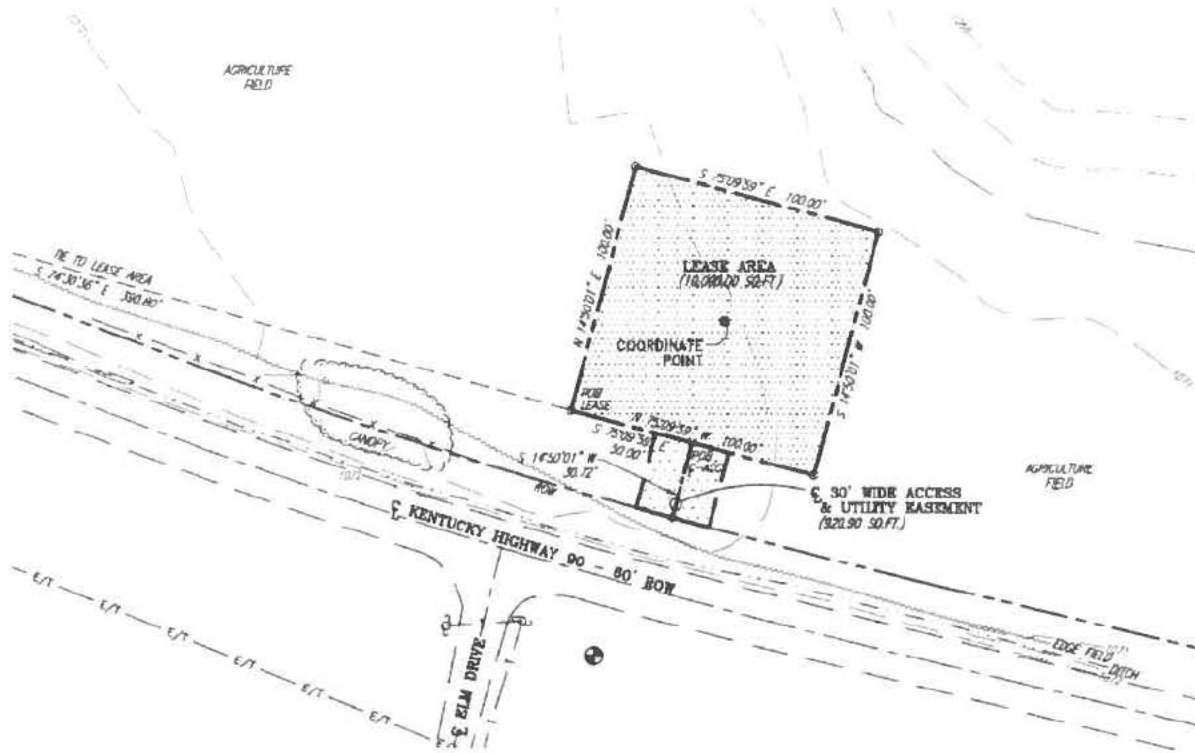


EXHIBIT J

**NOTIFICATION LIST
PVA RECORDS
PROOF OF NOTICE**

Crockets Trail – Notice List

025-21A

HAGLER JOHN
1707 OAK GROVE RD
PINE MOUNTAIN, GA 31822

025-15

ATWOOD RONNIE D & JANET
9250 W KY 70
LIBERTY, KY 42539

025-22

TARTER DONALD & JOY
501 LUTTRELL CREEK
DUNNVILLE, KY 42528

025-23A-1

BEACHY JOSEPH & VERDA
8136 W KY 70
LIBERTY, KY 42539

025-21

THE KINCAID & VANNOY REAL EST TRUST
8136 WATERMARK CT
WEST CHESTER, OH 45069

025-22B

WETHINGTON JEFFERY & RHONDA
8840 W KY 70
LIBERTY, KY 42539

025-18 & 025-17

YANKEY RICKY LEE
9181 W KY 70
LIBERTY, KY 42539

025-23B

BURCHELL STEVE
8843 W KY 70
LIBERTY, KY 42539

025-20C

SMITH KENNETH & VICTORIA
5950 LIBERTY RD
CAMPBELLSVILLE, KY 42718

025-19B-1

CLEMENTS DANNY & BARBARA
457 ELM DR
LIBERTY, KY 42539

025-19B-1A

CASEY COUNTY VETERANS HONOR GUARD
9 ELM DR
LIBERTY, KY 42539

Casey County, KY PVA

Summary

Parcel Number	025-21A
Account Number	42229
Location Address	W KY 70
Description	HWY 70
	(Note: Not to be used on legal documents)
Class	Residential
Tax District	00 00
Rate Per Thousand	9.7600

[View Map](#)

Owner

Primary Owner
HAGLER JOHN
1707 OAK GROVE RD
PINE MOUNTAIN, GA 31822

Land Characteristics

Condition		Topography	
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	
Lot		Zoning	
Block		Electric	No
Acres	6.61	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	
Lot Sq Ft	0	Sidewalks	
Shape		Information Source	

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Casey County, KY PVA

Summary

Parcel Number

Account Number

Location Address

Description

Class

Tax District

Rate Per Thousand

025-15

25015

W KY 70 9250

HWY 70 W

(Note: Not to be used on legal documents)

Farm

00 00

9.7600

[View Map](#)



Owner

Primary Owner

ATWOOD RONNIE D & JANET

9250 W KY 70

LIBERTY, KY 42539

Land Characteristics

Condition	Good	Topography	Level
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	
Block		Electric	Yes
Acres	36.00	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

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Casey County, KY PVA

Summary

Parcel Number	025-22
Account Number	31557
Location Address	0
Description	OFF HWY 70 W WILSON (Note: Not to be used on legal documents)
Class	Farm
Tax District	00 00
Rate Per Thousand	9.7600

[View Map](#)



Owner

Primary Owner
[TARTER DONALD & JOY](#)
501 LUTTRELL CREEK
DUNNVILLE, KY 42528

Land Characteristics

Condition		Topography	
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	
Lot		Zoning	
Block		Electric	No
Acres	224.45	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	
Lot Sq Ft	0	Sidewalks	
Shape		Information Source	


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Casey County, KY PVA

Summary

Parcel Number	025-23A-1	
Account Number	35189	
Location Address	W KY 70	
Description	(Note: Not to be used on legal documents)	
Class		Farm
Tax District		00 00
Rate Per Thousand		9.7600
		

[View Map](#)

Owner

Primary Owner
BEACHY JOSEPH & VERDA
8136 W KY 70
LIBERTY, KY 42539

Land Characteristics

Condition	Average	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	
Block		Electric	Yes
Acres	55.28	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

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Casey County, KY PVA

Summary

Parcel Number	025-21
Account Number	41094
Location Address	DEANY VANNOY RD 111
Description	HWY 70
	(Note: Not to be used on legal documents)
Class	Farm
Tax District	00 00
Rate Per Thousand	9.7600

[View Map](#)



Owner

Primary Owner
THE KINCAID & VANNOY REAL EST TRUST
8136 WATERMARK CT
WEST CHESTER, OH 45069

Land Characteristics

Condition	Good	Topography	Level
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	
Block		Electric	Yes
Acres	38.39	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	Gravel
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

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Casey County, KY PVA

Summary

Parcel Number

Account Number

Location Address

Description

Class

Tax District

Rate Per Thousand

025-22B

32268

W KY 70 8840

HWY 70 W

(Note: Not to be used on legal documents)

Residential

00 00

9.7600



[View Map](#)

Owner

Primary Owner

WETHINGTON JEFFERY & RHONDA

8840 W KY 70

LIBERTY, KY 42539

Land Characteristics

Condition	Average	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	
Block		Electric	Yes
Acres	2.53	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

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Casey County, KY PVA

Summary

Parcel Number	025-18
Account Number	38271
Location Address	W KY 70 9101
Description	HWY 70 W
	(Note: Not to be used on legal documents)
Class	Residential
Tax District	00 00
Rate Per Thousand	9.7600

[View Map](#)



Owner

Primary Owner
[YANKEY RICKY LEE](#)
9181 W KY 70
LIBERTY, KY 42539

Land Characteristics

Condition		Topography	
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	
Lot		Zoning	
Block		Electric	No
Acres	1.25	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	
Lot Sq Ft	0	Sidewalks	
Shape		Information Source	

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Casey County, KY PVA

Summary

Parcel Number

Account Number

Location Address

Description

Class

Tax District

Rate Per Thousand

025-17

35468

W KY 70 9181

HWY 70 W

(Note: Not to be used on legal documents)

Farm

00 00

9.7600

[View Map](#)



Owner

Primary Owner

[YANKEY RICKY LEE](#)

9181 W KY 70

LIBERTY, KY 42539

Land Characteristics

Condition	Good	Topography	Level
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	
Block		Electric	Yes
Acres	66.00	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

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Casey County, KY PVA

Summary

Parcel Number

Account Number

Location Address

Description

Class

Tax District

Rate Per Thousand

025-23B

25644

W KY 70 8843

HWY 70

(Note: Not to be used on legal documents)

Residential

00 00

9.7600



[View Map](#)

Owner

Primary Owner

[BURCHELL STEVE](#)

8843 W KY 70

LIBERTY, KY 42539

Land Characteristics

Condition	Good	Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	
Block		Electric	Yes
Acres	0.00	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	2 Lane
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

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Casey County, KY PVA

Summary

Parcel Number

Account Number

Location Address

Description

Class

Tax District

Rate Per Thousand

025-20C

34700

W KY 70 8869

HWY 70

(Note: Not to be used on legal documents)

Farm

00 00

9.7600

[View Map](#)



Owner

Primary Owner

[SMITH KENNETH & VICTORIA](#)

5950 LIBERTY RD

CAMPBELLSVILLE, KY 42718-

Land Characteristics

Condition		Topography	
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	
Lot		Zoning	
Block		Electric	No
Acres	12.15	Water	No
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	
Lot Sq Ft	0	Sidewalks	
Shape		Information Source	

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Casey County, KY PVA

Summary

Parcel Number

Account Number

Location Address

Description

Class

Tax District

Rate Per Thousand

025-19B-1

26041

ELM DR 457

OFF HWY 70

(Note: Not to be used on legal documents)

Farm

00 00

9.7600

[View Map](#)



Owner

Primary Owner

CLEMENTS DANNY & BARBARA

457 ELM DR

LIBERTY, KY 42539

Land Characteristics

Condition		Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	
Block		Electric	Yes
Acres	77.63	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	Gravel
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

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Casey County, KY PVA

Summary

Parcel Number

Account Number

Location Address

Description

Class

Tax District

Rate Per Thousand

025-19B-1A

40037

ELM DR 9

OFF HWY 70

(Note: Not to be used on legal documents)

Exempt Other

00 00

9.7600



[View Map](#)

Owner

Primary Owner

CASEY COUNTY VETERANS HONOR GUARD

9 ELM DR

LIBERTY, KY 42539

Land Characteristics

Condition		Topography	Rolling
Plat Book/Page		Drainage	
Subdivision		Flood Hazard	None
Lot		Zoning	
Block		Electric	Yes
Acres	0.25	Water	Yes
Front	0	Gas	No
Depth	0	Sewer	No
Lot Size	0x0	Road	Gravel
Lot Sq Ft	0	Sidewalks	No
Shape		Information Source	

The Casey County Property Valuation Administrator's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll.

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Developed by

 **SCHNEIDER**
GEOSPATIAL

9589 0710 5270 1676 7775 14

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage

BURCHELL STEVE
8843 W KY 70
LIBERTY, KY 42539



PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for instructions

9589 0710 5270 1676 7775 21

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage

YANKEY RICKY LEE
9181 W KY 70
LIBERTY, KY 42539



PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for instructions

9589 0710 5270 1676 7776 37

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage

CLEMENTS DANNY & BARBARA
457 ELM DR
LIBERTY, KY 42539



PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for instructions

9589 0710 5270 1676 7776 44

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

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Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage

SMITH KENNETH & VICTORIA
5950 LIBERTY RD
CAMPBELLVILLE, KY 42718



PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for instructions

9589 0710 5270 1676 7776 20

U.S. Postal Service™ CERTIFIED MAIL® RECEIPT

Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee	
\$	
Extra Services & Fees (check box, add fee as appropriate)	
<input type="checkbox"/> Return Receipt (hardcopy)	\$
<input type="checkbox"/> Return Receipt (electronic)	\$
<input type="checkbox"/> Certified Mail Restricted Delivery	\$
<input type="checkbox"/> Adult Signature Required	\$
<input type="checkbox"/> Adult Signature Restricted Delivery	\$

Postage

**CASEY COUNTY VETERANS
HONOR GUARD**
9 ELM DR
LIBERTY, KY 42539



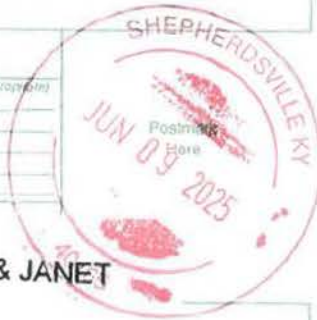
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for instructions

9589 0710 5270 1676 7775 76

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
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For delivery information, visit our website at www.usps.com®.

Certified Mail Fee
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$



ATWOOD RONNIE D & JANET
9250 W KY 70
LIBERTY, KY 42539

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 1676 7775 13

**U.S. Postal Service™
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Certified Mail Fee
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$



HAGLER JOHN
1707 OAK GROVE RD
PINE MOUNTAIN, GA 31822

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 1676 7775 52

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
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For delivery information, visit our website at www.usps.com®.

Certified Mail Fee
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$



BEACHY JOSEPH & VERDA
8136 W KY 70
LIBERTY, KY 42539

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 1676 7775 69

**U.S. Postal Service™
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For delivery information, visit our website at www.usps.com®.

Certified Mail Fee
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$



TARTER DONALD & JOY
501 LUTTRELL CREEK
DUNNVILLE, KY 42528

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 1676 7775 38

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$



WETHINGTON JEFFERY &
RHONDA
8840 W KY 70
LIBERTY, KY 42539

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

9589 0710 5270 1676 7775 45

**U.S. Postal Service™
CERTIFIED MAIL® RECEIPT**
Domestic Mail Only

For delivery information, visit our website at www.usps.com®.

Certified Mail Fee
\$
Extra Services & Fees (check box, add fee as appropriate)
☐ Return Receipt (hardcopy) \$
☐ Return Receipt (electronic) \$
☐ Certified Mail Restricted Delivery \$
☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$



THE KINCAID & VANNOY REAL
EST TRUST
8136 WATERMARK CT
WEST CHESTER, OH 45069

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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:

THE KINCAID & VANNOY REAL
EST TRUST
8136 WATERMARK CT
WEST CHESTER, OH 45069



9590 9402 7926 2305 8841 83

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7775 45

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Golden Kincaid* ☐ Agent
☒ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over \$500)

- ☐ 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:

SMITH KENNETH & VICTORIA
5950 LIBERTY RD
CAMPBELLVILLE, KY 42718



9590 9402 7926 2305 8841 45

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7776 44

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *K. David Smith* ☐ Agent
☒ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over \$500)

- ☐ 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:

WETHINGTON JEFFERY &
RHONDA
8040 W KY 70
LIBERTY, KY 42539



9590 9402 7926 2305 8841 76

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7775 38

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Rhonda Wethington* ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over \$500)

- ☐ 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:

YANKEY RICKY LEE
9181 W KY 70
LIBERTY, KY 42539



9590 9402 7926 2305 8841 69

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7775 21

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *[Signature]* ☐ Agent
☐ Address

B. Received by (Printed Name)

C. Date of Delivery

6-11

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
- ☐ Insured Mail Restricted Delivery (over \$500)
- ☐ 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:

ATWOOD RONNIE D & JANET
9250 W KY 70
LIBERTY, KY 42539



9590 9402 7926 2305 8842 13

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7775 76

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Janet Atwood* ☐ Agent
☐ Address

B. Received by (Printed Name)

C. Date of Delivery

Janet Atwood 6-13

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
- ☐ Insured Mail Restricted Delivery (over \$500)
- ☐ 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:

BURCHELL STEVE
8843 W KY 70
LIBERTY, KY 42539



9590 9402 7926 2305 8841 52

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7775 14

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Steve Burchell* ☐ Agent
☐ Address

B. Received by (Printed Name)

C. Date of Delivery

Steve Burchell 6-13

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
- ☐ Insured Mail Restricted Delivery (over \$500)
- ☐ 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:

TARTER DONALD & JOY
501 LUTTRELL CREEK
DUNNVILLE, KY 42528



9590 9402 7926 2305 8842 06

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7775 69

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

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

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input checked="" type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

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:

HAGLER JOHN
1707 OAK GROVE RD
PINE MOUNTAIN, GA 31822



9590 9402 7926 2305 8841 14

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7776 13

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

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

3. Service Type

- | | |
|--|---|
| <input type="checkbox"/> Adult Signature | <input type="checkbox"/> Priority Mail Express® |
| <input type="checkbox"/> Adult Signature Restricted Delivery | <input type="checkbox"/> Registered Mail™ |
| <input checked="" type="checkbox"/> Certified Mail® | <input type="checkbox"/> Registered Mail Restricted Delivery |
| <input type="checkbox"/> Certified Mail Restricted Delivery | <input type="checkbox"/> Signature Confirmation™ |
| <input type="checkbox"/> Collect on Delivery | <input type="checkbox"/> Signature Confirmation Restricted Delivery |
| <input type="checkbox"/> Collect on Delivery Restricted Delivery | |
| <input type="checkbox"/> Insured Mail | |
| <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500) | |

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:

CLEMENTS DANNY & BARBARA
457 ELM DR
LIBERTY, KY 42539



9590 9402 7926 2305 8841 38

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7776 37

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Barbara Clements*☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

6-11

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☐ Insured Mail Restricted Delivery

(over \$500)

☐ 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:

CASEY COUNTY VETERANS
HONOR GUARD
9 ELM DR
LIBERTY, KY 42539



9590 9402 7926 2305 8841 21

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7776 20

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

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Barb Clements*☐ Agent☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

6-11

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☐ Insured Mail Restricted Delivery

(over \$500)

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

Restricted Delivery

Domestic Return Receipt

Pike
P. O. Box 369
Shepherdsville, KY 40165-0369

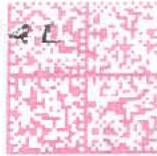


9589 0710 5270 1677 775 52

SHEPHERDSTOWN KY 400

3 JUN 2025 PM 4 L

FIRST-CLASS



US POSTAGE PAID PITNEY BOWES

ZIP 40165
02 7H
0006034260

\$ 009.64⁰

JUN 09 2025

UNC
11
9

BEACHY JOSEPH & VERDA
8136 W KY 70
LIBERTY, KY 42539

NEXIE 572 DE 1 0006/29/25

RETURN TO SENDER
UNC-CLAIMED
UNABLE TO FORWARD

UNC

BC: 40165036969 *1770-01766-09-37

401650369
42539-070000



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

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:

BEACHY JOSEPH & VERDA
8136 W KY 70
LIBERTY, KY 42539



9590 9402 7926 2305 8841 90

2. Article Number (Transfer from service label)

9589 0710 5270 1676 7775 52

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

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
- ☐ Insured Mail Restricted Delivery (over \$500)

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

Domestic Return Receipt

EXHIBIT K

COPY OF PROPERTY OWNER NOTIFICATION



PIKE LEGAL GROUP PLLC
1578 Highway 44 East, Unit 6
PO Box 369
Shepherdsville, KY 40165-0369
Phone: 502-955-4400
Fax: 502-543-4410

VIA CERTIFIED MAIL

Notice of Proposed Construction of Wireless Communications Facility

Dear Landowner:

The Towers, LLC d/b/a Vertical Bridge and Rural Cellular Corporation d/b/a Verizon Wireless are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 111 Deany Vannoy Road, Liberty, KY 42539 (37° 16' 07.59" North latitude, 85° 03' 17.61" West longitude). The proposed facility will include a 255-foot tower with a 10-foot lightning arrestor attached at the top for a total height of 265-feet, plus related ground facilities. This facility is needed to provide improved service 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 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 2025-00176 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 toll free at (800) 516-4293 if you have any comments or questions about this proposal. The Applicants' site name is Crockets Trail.

Sincerely,
David A. Pike
Attorney for Applicants

enclosures



EXHIBIT L

**COPY OF COUNTY JUDGE/EXECUTIVE NOTICE &
PROOF OF NOTICE**



PIKE LEGAL GROUP PLLC
1578 Highway 44 East, Unit 6
PO Box 369
Shepherdsville, KY 40165-0369
Phone: 502-955-4400
Fax: 502-543-4410

VIA CERTIFIED MAIL

Randy Dial
County Judge Executive
625 Campbellsville Street
PO Box 306
Liberty, KY42539

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2025-00176
Site Name: Crockets Trail

Dear Judge/Executive:

The Towers, LLC d/b/a Vertical Bridge and Rural Cellular Corporation d/b/a Verizon Wireless are filing an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 111 Deany Vannoy Road, Liberty, KY 42539 (37° 16' 07.59" North latitude, 85° 03' 17.61" West longitude). The proposed facility will include a 255-foot tower with a 10-foot lightning arrestor attached at the top for a total height of 265-feet, plus related ground facilities. This facility is needed to provide improved service 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 2025-00176 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,
David A. Pike
Attorney for Applicants
enclosures



9589 0710 5270 1676 7775 83

U.S. Postal Service CERTIFIED MAIL® RECEIPT Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL USE	
Certified Mail Fee	\$
Extra Services & Fees (check box, add fee as appropriate)	
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Randy Dial County Judge Executive 625 Campbellsville Street PO Box 306 Liberty, KY42539	
PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions	



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. 		A. Signature X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: Randy Dial County Judge Executive 625 Campbellsville Street PO Box 306 Liberty, KY42539		B. Received by (Printed Name) Betty Carnan	
		C. Date of Delivery 6-11	
		D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
2. Article Number (Transfer from service label) 9589 0710 5270 1676 7775 83		3. Service Type <input type="checkbox"/> Adult Signature <input type="checkbox"/> Adult Signature Restricted Delivery <input checked="" type="checkbox"/> Certified Mail® <input type="checkbox"/> Certified Mail Restricted Delivery <input type="checkbox"/> Collect on Delivery <input type="checkbox"/> Collect on Delivery Restricted Delivery <input type="checkbox"/> Insured Mail <input type="checkbox"/> Insured Mail Restricted Delivery (over \$500)	
9590 9402 7926 2305 8842 20		<input type="checkbox"/> Priority Mail Express® <input type="checkbox"/> Registered Mail™ <input type="checkbox"/> Registered Mail Restricted Delivery <input type="checkbox"/> Signature Confirmation™ <input type="checkbox"/> Signature Confirmation Restricted Delivery	

EXHIBIT M

**COPY OF POSTED NOTICES,
NEWSPAPER NOTICE ADVERTISEMENT TEAR SHEET
AND AFFIDAVIT**

SITE NAME: CROCKETS TRAIL
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.

The Towers, LLC d/b/a Vertical Bridge and Rural Cellular Corporation d/b/a Verizon Wireless propose to construct a telecommunications **tower** on this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2025-00176 in your correspondence.

The Towers, LLC d/b/a Vertical Bridge and Rural Cellular Corporation d/b/a Verizon Wireless propose to construct a telecommunications **tower** near this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2025-00176 in your correspondence.

COMMUNITY CALENDAR

The deadline for the Community Calendar is at 4 p.m. Friday. Email to news@caseynews.net.

HAPPENINGS

The Red Hattitudes will meet at 12:30 p.m. Wednesday, June 25 at Sacred Heart Church to carpool to Etsy's country store in Russell Springs for lunch.

The Casey County Farmers Market is held every Thursday through September at 4:30 p.m. in the parking lot of the Outreach Center in Liberty.

Anthony Cook, VFW Post 5704 service officer, will be at the Casey County Public Library the second Tuesday of every month to talk to veterans about

benefits or other services.

SUPPORT GROUPS

A child bereavement group will meet the first Friday of each month from 6-8 p.m. at the Outreach Center, 289 Wallace Wilkinson Blvd., in Liberty. For more information call 606-303-1422.

Alcoholics Anonymous meets

at 8 p.m. every Tuesday at the First Christian Church Fellowship hall. For information, call 606-787-5866 or 606-305-1288.

Narcotics Anonymous meets at 8 p.m. every Thursday at Hope Ministry, 882 Caney Fork Road, Liberty. For more information, call 606-448-9176.

A Narcotics Anonymous

open discussion meeting is held at 7:30 p.m. Thursdays in the basement at Brush Creek Pentecostal Church on KY 49.

A Survivor of Suicide support group meets the first Thursday of the month from 6-7 p.m. at the Boyle County Library. This group is for adults who have had friends or family members die by suicide.

POLICE

FROM PAGE B4

Alwood watched Carmie for a minute and didn't see him move. He appeared to be passed out. Being concerned for Carmie's well being, Alwood tapped him on the shoulder and stated his name three times before he became alert. He had dilated pupils and his speech was difficult to understand at times, and his conversation was all over the place. He admitted to taking two Xanax but said they were a prescription.

A group of witnesses said

that he had been nodding off and then stayed passed out. Alwood placed Carmie under arrest and transported him to the Casey County Detention Center.

WARRANTS

Kelly E. Allen, 42, of Kentucky, was arrested on a Casey County indictment warrant for bail jumping in the first degree and persistent felony offender in the first degree. She was also wanted on a bench warrant for failure to appear to court on April 29 to answer to charges of public intoxication by a controlled substance, excluding alcohol and possession of a controlled substance.

stance in the first degree, second offense (methamphetamine). She was held without bail.

Alisha M. Shupert, 35, of Sandpiper, Kentucky, was arrested June 11 on a Jackson County bench warrant for failure to pay \$870 in fines, fees, or court costs. She was ordered to pay the balance or spend 17 days in jail.

Michael D. Tucker, 45, of Columbus, was arrested June 11 on a Taylor County bench warrant for failure to appear to court on June 19, 2024 to answer to traffic infractions and failure to maintain required insurance. He was held on a \$250 cash bond.

BRIEFS

FROM PAGE B3

The alignment for the 12th Region is as follows: 45th District — Boyle County, Danville, Danville Christian, Garrison County, Kentucky School for the Deaf, Lincoln County, 46th District — Burgin, East Jessamine, Mercer County, Trinity Christian, West Jessamine, 47th District — Casey County, Paducah County, Rockcastle County, Somerset, 48th District —

McCreary Central, Somerset Christian, Southwestern, Wayne County. High school volleyball teams from across the 12th Region will open preseason practice in July, following the conclusion of the KHSAA Dead Period.

DARRIAN BELL YOUTH FOOTBALL CAMP SET IN DANVILLE — The Darrian Bell Youth Football Camp is set to be held at the Danville Practice Field on Saturday, June 21. Current Savannah State University linebacker Dar-

rian Bell will conduct the youth football camp. Bell is a Danville High school graduate. Following high school, Bell graduated from the University of Louisville in three years.

The youth football camp is for players in third grade through eighth grade. Fundamentals will be taught throughout the youth football camp. Each camper will receive a free T-shirt and free food. Registration for the youth football camp will begin at 9 a.m. The youth football camp is slated to be conducted from 10 a.m. to 1 p.m.

CASEY COUNTY SENIOR CENTER MENU

June 18: Grilled chicken sandwich on a bun, zucchini and tomatoes, diced potatoes, orange, and milk.

June 19: Fish sticks, au gratin potatoes, coleslaw, fruit, bun and tartar sauce, and milk.

June 20: Potluck.

June 21: Meatloaf, mashed potatoes, green beans, juice, roll with margarine, and milk.

June 22: Chicken Alfredo, California vegetables, fruit, cookie, roll with margarine, and milk.

June 23: Pork chops, carrots, scalloped potatoes, apple, roll with margarine, and milk.

June 24: Spaghetti and meatballs, tossed salad, bread stick, fruit, and milk.

June 27: Deluxe cheeseburger on a bun, potato salad, coleslaw, banana, and milk.

TOPSOIL
Good Tilled Dirt
Rock Hauling
Garryn Dale
606-303-4721

LEGAL NOTICE

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The Casey County News

CLASSIFIED DEADLINE

WEDNESDAY - 4:00 PM
Contact Customer Service at
606-787-7171, Option 1 or
classifieds@caseynews.net
Monday-Friday 8AM-4PM
*Holidays advance deadline by 24 hours.

PAXTON MEDIA GROUP

CLASSIFIEDS

CALL TO PLACE YOUR AD IN PRINT AND ONLINE IN KENTUCKY

<p>0100 ANNOUNCEMENTS</p> <p>ELIZABETH HOSBY EXPERIENCED AFFORDABLE HANDYMAN Licensed and insured No job too small (254) 777-7864 (707) 317-3848</p>	<p>0100 ANNOUNCEMENTS</p> <p>Donate your car, truck, boat, RV and more to support our veterans! Schedule a FAST, FREE vehicle pickup and receive a tax deduction! Call Veteran Car Donations at 1-833-984-2146 today!</p> <p>Frankfort Office Space for rent. Second floor with four large office areas, restroom, Office desks furnished. Located 1/2 mile from I-64. Lexington, KY 40504. Electric, water, gas, utilities and internet included. \$2,200 per month. Call Bonnie Howard, Kentucky Press Association, 502-222-6821.</p>	<p>0100 ANNOUNCEMENTS</p> <p>ELIZABETH HOSBY LOOKING TO BUY FULL OLD BOTTLES OF BOURBON WHISKY Call 270-334-5062</p>	<p>0100 ANNOUNCEMENTS</p> <p>Don't Sell America's Number One Award! Instant shade at the touch of a button. Transform your deck or patio into an outdoor oasis. Up to 10-year limited warranty. Call now and SAVE \$350 today! 1-866-348-7131</p>	<p>0100 ANNOUNCEMENTS</p> <p>We buy 8,000 cars a week. Sell your old, traded or junk car with no hoops, haggles or headaches. Sell your car to Freddie. Easy three step process. Instant offer. Free pickup. Fast payment. Call 1-844-402-6339</p>	<p>0300 PETS</p> <p>Bardonia KY Free Pet! Meet Baby a 6 year old tabby and gentle female cat. She is a beautiful long haired grey and white tabby with some black stripes, a cute pink nose and green eyes. She is spayed and litter trained. Baby would be the perfect cat for seniors or kids. She is very clean and uses the litter box like a pro and only pats her back feet in. She is scared of the vacuum and gets hair balls from grooming herself which I love her medicine for when needed. She loves to be held and whether it's on your head or a beard. I am sad to let her go since she has been with me her entire life. Come meet baby and see if she is the perfect addition to your family. Call or text Kerry at 270-401-3127</p>
<p>0100 ANNOUNCEMENTS</p> <p>AFFORDABLE TV & INTERNET If you are overpaying for your service, call now for a free quote and see how much you can save! 1-877-548-7494</p>	<p>0100 ANNOUNCEMENTS</p> <p>BATH & SHOWER UPGRADES in as little as ONE DAY! Affordable prices - No payments for 18 months! Lifetime warranty & professional install. Senior & Military Discounts available. Call 1-833-770-0957</p>	<p>0100 ANNOUNCEMENTS</p> <p>NEED NEW WINDOWS? Drainage! Cheapest or damaged frames? Need outside noise reduction? New, energy efficient windows may be the answer! Call for a consultation. FREE quote today! 1-833-890-2083. You will be asked for one zip code of the property when connecting.</p>	<p>0100 ANNOUNCEMENTS</p> <p>We Buy Houses for Cash AS IS! No repairs. No fuss. Any condition. Easy three step process. Call, get cash offer and get paid. Get your fair cash offer today by calling Buy Houses 1-888-287-5815</p>	<p>0300 PETS</p> <p>Wesley Financial Group, LLC Term Life Insurance Cancellation Exports Over \$50,000,000 in term share and fees cancelled in 2019. Get free informational package and learn how to get rid of your term life! Free consultations. Over 1500 reviews. Call 855-977-4979</p>	<p>0500 MERCHANDISE</p> <p>LOOKING TO BUY 4-wheelers, dirt bikes, mowers & zero turns, golf carts & tractors, trailers, UTV's and side by sides. Call or text 270-765-9940</p>
<p>0100 ANNOUNCEMENTS</p> <p>BATH & SHOWER UPGRADES in as little as ONE DAY! Affordable prices - No payments for 18 months! Lifetime warranty & professional install. Senior & Military Discounts available. Call 1-833-770-0957</p>	<p>0100 ANNOUNCEMENTS</p> <p>FLORA MARKET Hand-picked Open Daily 9:00 AM - 7:00 PM 812-667-5645 www.floramarket.com Live entertainment on the weekends!</p>	<p>0100 ANNOUNCEMENTS</p> <p>Omaha Steaks Wines 12 world class wines (and bonus gifts) for ONLY \$79.99 (plus tax)! Save \$160! 12 new wine selections plus a FREE 325 Omaha Steaks E-reward card every three months. Cancel anytime. 100% guaranteed! Call 1-844-740-5845 and mention code AGJ7002 or visit www.OmahaSteaks.com/vip160</p>	<p>0100 ANNOUNCEMENTS</p> <p>YOU MAY QUALIFY for disability benefits if you are between 52-64 years old and under a doctor's care for a health condition that prevents you from working for a year or more. Call now! 1-833-641-8772</p>	<p>0400 FARM</p> <p>READY NOW! Collards, Kale, Squash, Zucchini, Cabbage, and Onions. 69 Potatoes and Green Beans 500 Sweet Corn 777 Tomatoes 714 Cantaloupes Alike Miller 3669 Sonora Hardin Springs Rd, Sonora</p>	<p>0600 REAL ESTATE FOR RENT</p> <p>Springfield, KY 2 bedroom apartment apartment furnished \$600mo. + utilities. No Pets. Call for availability: 859-481-1333</p>
<p>0100 ANNOUNCEMENTS</p> <p>CASH PAID FOR HIGH-END MEN'S SPORT WATCHES. Rolex, Breitling, Omega, Patek Philippe, Haur, Dayton, GMT, Submariner and Speedmaster. These brands only! Call for a quote. 1-833-641-4058</p>	<p>0100 ANNOUNCEMENTS</p> <p>Get Best Unlimited Unlimited Talk, Text and Data For just \$35/mo! The Power Of 5G Networks. One Low Price! Call Today and Get The Latest iPhone Every Year On Up To \$55-\$81-2884</p>	<p>0100 ANNOUNCEMENTS</p> <p>Portable Oxygen Concentrator May be Covered by Medicare! Medicare independence and mobility with the compact design and long-lasting battery of Inogen One. Free mission kit! Call 888-582-0374</p>	<p>0300 PETS</p> <p>Austin Shepherd Puppies \$200 Four puppies born April 4th 1 male and 3 females. Mostly black with some white markings. UTD on Shots. Amos Yoder 400 Amos Lively Rd, Lexington, KY 42754</p>	<p>0400 FARM</p> <p>READY NOW! Collards, Kale, Squash, Zucchini, Cabbage, and Onions. 69 Potatoes and Green Beans 500 Sweet Corn 777 Tomatoes 714 Cantaloupes Alike Miller 3669 Sonora Hardin Springs Rd, Sonora</p>	<p>0600 REAL ESTATE FOR RENT</p> <p>Shelbyville, KY 2 BEDROOM CONDO 2 1/2 baths, garage, fireplace, stainless appliances, washer/dryer, 1500month 1 No Pets, 555-481-1333</p>
<p>0100 ANNOUNCEMENTS</p> <p>Choose EarthLink Fiber Internet for speeds up to 5 Gbps, no data caps, no throttling. Prices starting at \$54.95. Plus, a \$100 gift card when you make the switch. Call 1-833-974-4799</p>	<p>0100 ANNOUNCEMENTS</p> <p>Get Dish Satellite TV + Internet Free Install. Free HD-DVR Upgrade, 80,000 On-Demand Movies. Plus Limited Time Up To \$600 in Get Cards. Call today! 1-855-433-4574</p>	<p>0100 ANNOUNCEMENTS</p> <p>Get a Break on your Taxes! Donate your car, truck, or SUV to assist the blind and visually impaired. Arrange a free, no-cost vehicle pickup and secure a generous tax credit for 2025. Call Heritage for the Blind Today at 1-877-581-3053 today!</p>	<p>0300 PETS</p> <p>Excaliburn - Free Puppy ador, 4mo. old. Will be a large female call (270) 317-0829</p>	<p>0400 FARM</p> <p>READY NOW! Collards, Kale, Squash, Zucchini, Cabbage, and Onions. 69 Potatoes and Green Beans 500 Sweet Corn 777 Tomatoes 714 Cantaloupes Alike Miller 3669 Sonora Hardin Springs Rd, Sonora</p>	<p>0600 REAL ESTATE FOR RENT</p> <p>Excaliburn 2 Bedroom house for rent. 1300 sq a month. Available July 1st 270-765-0908</p>
<p>0100 ANNOUNCEMENTS</p> <p>Consumer Cellular - the same reliable, nationwide coverage as the largest carriers. No long-term contract. No hidden fees and activation is free. All plans feature unlimited talk and text, starting at just 50¢/month. For more information, call 1-833-252-2892</p>	<p>0100 ANNOUNCEMENTS</p> <p>HOME BREAK-INS have less than 60 SECONDS. Don't wait! Protect your family, your home, your assets NOW! For as little as 70¢ a day! Call 1-833-360-5407</p>	<p>0100 ANNOUNCEMENTS</p> <p>Get a Break on your Taxes! Donate your car, truck, or SUV to assist the blind and visually impaired. Arrange a free, no-cost vehicle pickup and secure a generous tax credit for 2025. Call Heritage for the Blind Today at 1-877-581-3053 today!</p>	<p>0300 PETS</p> <p>Excaliburn - Free Puppy ador, 4mo. old. Will be a large female call (270) 317-0829</p>	<p>0400 FARM</p> <p>READY NOW! Collards, Kale, Squash, Zucchini, Cabbage, and Onions. 69 Potatoes and Green Beans 500 Sweet Corn 777 Tomatoes 714 Cantaloupes Alike Miller 3669 Sonora Hardin Springs Rd, Sonora</p>	<p>0600 REAL ESTATE FOR RENT</p> <p>Excaliburn 2 Bedroom house for rent. 1300 sq a month. Available July 1st 270-765-0908</p>
<p>0100 ANNOUNCEMENTS</p> <p>DENTAL INSURANCE from Physicians Mutual Insurance Company. Coverage for 400 plus procedures. Read dental insurance - NOT just a discount plan. Do not wait! Call now! Get your FREE Dental Insurance Kit with all the details! 1-855-900-7392 www.dental50plus.com/26 PE258</p>	<p>0100 ANNOUNCEMENTS</p> <p>Get a Break on your Taxes! Donate your car, truck, or SUV to assist the blind and visually impaired. Arrange a free, no-cost vehicle pickup and secure a generous tax credit for 2025. Call Heritage for the Blind Today at 1-877-581-3053 today!</p>	<p>0100 ANNOUNCEMENTS</p> <p>Get a Break on your Taxes! Donate your car, truck, or SUV to assist the blind and visually impaired. Arrange a free, no-cost vehicle pickup and secure a generous tax credit for 2025. Call Heritage for the Blind Today at 1-877-581-3053 today!</p>	<p>0300 PETS</p> <p>Excaliburn - Free Puppy ador, 4mo. old. Will be a large female call (270) 317-0829</p>	<p>0400 FARM</p> <p>READY NOW! Collards, Kale, Squash, Zucchini, Cabbage, and Onions. 69 Potatoes and Green Beans 500 Sweet Corn 777 Tomatoes 714 Cantaloupes Alike Miller 3669 Sonora Hardin Springs Rd, Sonora</p>	<p>0600 REAL ESTATE FOR RENT</p> <p>Excaliburn 2 Bedroom house for rent. 1300 sq a month. Available July 1st 270-765-0908</p>
<p>0100 ANNOUNCEMENTS</p> <p>DIRECTV OVER INTERNET Get your favorite live TV, sports and local channels. 99¢ signal reliability! CHOICE Packages. \$84.99/mo for 12 months. HBO Max and Premium Channels included for 3 mos in CHOICE Package or higher! No annual contract, no hidden fees! Some restrictions apply. Call 855-1-888-340-0138</p>	<p>0100 ANNOUNCEMENTS</p> <p>Get a Break on your Taxes! Donate your car, truck, or SUV to assist the blind and visually impaired. Arrange a free, no-cost vehicle pickup and secure a generous tax credit for 2025. Call Heritage for the Blind Today at 1-877-581-3053 today!</p>	<p>0100 ANNOUNCEMENTS</p> <p>Get a Break on your Taxes! Donate your car, truck, or SUV to assist the blind and visually impaired. Arrange a free, no-cost vehicle pickup and secure a generous tax credit for 2025. Call Heritage for the Blind Today at 1-877-581-3053 today!</p>	<p>0300 PETS</p> <p>Excaliburn - Free Puppy ador, 4mo. old. Will be a large female call (270) 317-0829</p>	<p>0400 FARM</p> <p>READY NOW! Collards, Kale, Squash, Zucchini, Cabbage, and Onions. 69 Potatoes and Green Beans 500 Sweet Corn 777 Tomatoes 714 Cantaloupes Alike Miller 3669 Sonora Hardin Springs Rd, Sonora</p>	<p>0600 REAL ESTATE FOR RENT</p> <p>Excaliburn 2 Bedroom house for rent. 1300 sq a month. Available July 1st 270-765-0908</p>
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NOTICE

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AFFP

NOTICE The Towers, LLC d/b/a V

Affidavit of Publication

STATE OF KY }
COUNTY OF CASEY } SS

Melanie Miller, being duly sworn, says:

That she is Accounting Clerk of the Casey County News, a newspaper of general circulation, printed and published in Liberty, Casey County, KY; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

June 18, 2025

Publisher's Fee: \$ 46.26

That said newspaper was regularly issued and circulated on those dates.

SIGNED:



Subscribed to and sworn to me this 18th day of June 2025.



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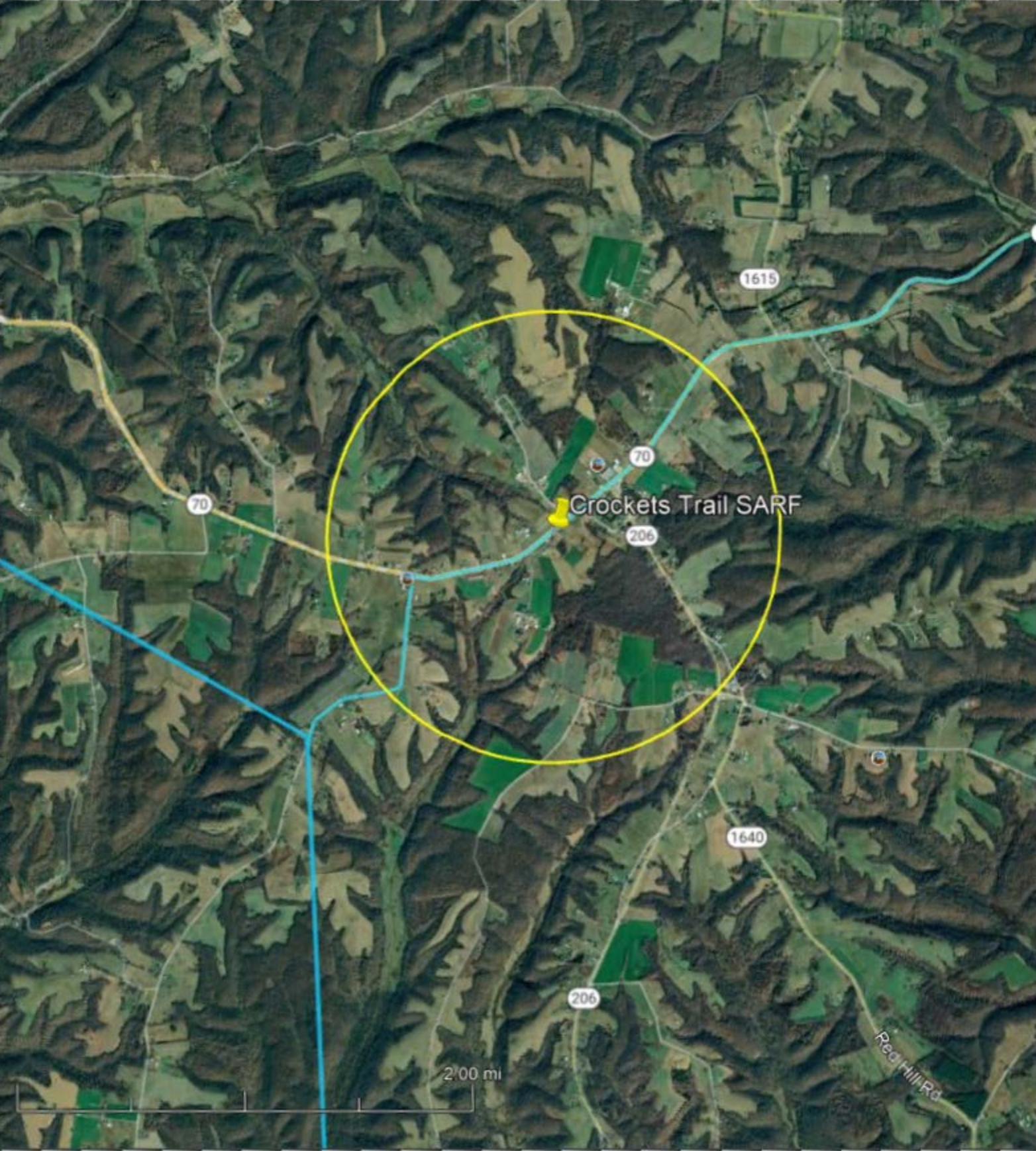
70123671 71250579

Samantha Aubrey
Pike Legal Group PLLC
PO Box 369
Shepherdsville, KY 40165



EXHIBIT N

COPY OF RADIO FREQUENCY DESIGN SEARCH AREA



1615

70

70

Crockets Trail SARF

206

1640

206

2.00 mi

Red Hill Rd