

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

In the Matter of:

THE APPLICATION OF	)	
HARMONI TOWERS GATEWAY LLC,	)	
A DELAWARE LIMITED LIABILITY COMPANY AND	)	
RURAL CELLULAR CORPORATION	)	
D/B/A VERIZON WIRELESS	)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC	)	CASE NO.: 2026-00216
CONVENIENCE AND NECESSITY TO CONSTRUCT	)	
A WIRELESS COMMUNICATIONS FACILITY	)	
IN THE COMMONWEALTH OF KENTUCKY	)	
IN THE COUNTY OF NICHOLAS	)	

SITE NAME: LV MOOREFIELD ROAD

* * * * *

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

Harmoni Towers Gateway LLC, a Delaware limited liability company, 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: Harmoni Towers

Gateway LLC, a Delaware limited liability company, having an address of 6210 Ardrey Kell Road, Suite 375, Charlotte, NC 28277 and Cellco Partnership 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. Harmoni Towers Gateway LLC is a limited liability company organized in the State of Delaware on September 15, 2025. Harmoni Towers Gateway LLC's Certificate of Good Standing issued by the State of Delaware is attached as part of **Exhibit A** and hereby incorporated by reference. Harmoni Towers Gateway 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 d/b/a Verizon Wireless 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 is hereby incorporated by reference. Rural Cellular Corporation is in good standing in the state in which it is organized and further states 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 Verizon Wireless' services to an area currently not served or not adequately served by Verizon Wireless 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 Cane Run Road, Carlisle, KY 40311 (38° 17' 49.37" North latitude, 83° 57' 05.48" 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 Kimberly Rawlings, Trustee, or her successor in trust or assigns, under the Kimberly Rawlings Revocable Living Trust Dated July 1, 2025, and any amendments thereto, pursuant to a deed recorded in Book 154, Page 167 in the office of

the County Clerk. The proposed WCF will consist of a 160-foot-tall monopole tower, with an approximately 4-foot-tall lightning arrestor attached at the top, for a total height of 164 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, Verizon Wireless attempts 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. Documentation confirming that the Kentucky Airport Zoning Commission ("KAZC") does not require a permit 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. Harmoni Towers Gateway 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 Supak 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 Nicholas County PVA records obtained on August 10, 2026 (and re-verified on October 29, 2026) and used to generate the notice list are attached as part of **Exhibit J**.

23. Twelve 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. To date, nine 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**. Three notice letters were returned and marked “Return to Sender / Unclaimed / Unable to Forward.” Copies of the returned undelivered letters are 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 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 verifying that the advertisement has been published is attached as part of **Exhibit M**.

27. The general area where the proposed facility will be located is predominantly rural in character with agricultural and sparse residential uses. The site parcel itself is rural with a structure on the far northwestern corner of the parcel.

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 & Affidavit
- N - Copy of Radio Frequency Design Search Area

EXHIBIT A

**BUSINESS DOCUMENTATION & FCC LICENSE
DOCUMENTATION**

Delaware

The First State

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***I, CHARUNI PATIBANDA-SANCHEZ, SECRETARY OF STATE OF THE
STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND
CORRECT COPY OF THE CERTIFICATE OF FORMATION OF "HARMONI TOWERS
GATEWAY LLC", FILED IN THIS OFFICE ON THE FIFTEENTH DAY OF
SEPTEMBER, A.D. 2025, AT 1:26 O`CLOCK P.M.***



C. P. Sanchez

Charuni Patibanda-Sanchez, Secretary of State

10332327 8100
SR# 20253970945

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

Authentication: 204748334
Date: 09-15-25

CERTIFICATE OF FORMATION
OF
HARMONI TOWERS GATEWAY LLC

This Certificate of Formation is being executed as of August 15, 2025, for the purpose of forming a limited liability company pursuant to the Delaware Limited Liability Company Act, 6 Del. C. §§ 18-101, et seq.

The undersigned, being duly authorized to execute and file this Certificate of Formation, does hereby certify as follows:

1. Name The name of the limited liability company is Harmoni Towers Gateway LLC (the "Company").

2. Registered Office and Registered Agent. The Company's registered office in the State of Delaware is located at 850 New Burton Road, Suite 201, Dover, Delaware 19904. The registered agent of the Company for service of process is Cogency Global Inc., located at 850 New Burton Road, Suite 201, Dover, Delaware 19904.

IN WITNESS WHEREOF, the undersigned has duly executed this Certificate of Formation as of the day and year first above written.

By: /s/ Michelle Hendrickson
Name: Michelle Hendrickson
Its: Authorized Person

State of Delaware
Secretary of State
Division of Corporations
Delivered 01:26 PM 09/15/2025
FILED 01:26 PM 09/15/2025
SR 20253970945 - File Number 10332327

Delaware

The First State

Page 1

I, CHARUNI PATIBANDA-SANCHEZ, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "HARMONI TOWERS DEVELOPMENT COMPANY 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 NINTH DAY OF SEPTEMBER, A.D. 2025.

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



10291323 8300

SR# 20253921187

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

A handwritten signature in cursive script, reading "C. P. Sanchez", written in black ink.

Charuni Patibanda-Sanchez, Secretary of State

Authentication: 204698005

Date: 09-09-25

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: 369597
Visit <https://web.sos.ky.gov/ftshow/certvalidate.aspx> to authenticate this certificate.

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

HARMONI TOWERS GATEWAY LLC

, a limited liability company authorized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on October 22, 2025.

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; that the most recent annual report required by KRS 14A.6-010 has been delivered to the Secretary of State; and is therefore in good standing.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 3rd day of June, 2026, in the 235th year of the Commonwealth.



Michael G. Adams

Michael G. Adams
Secretary of State
Commonwealth of Kentucky
369597/1506021

**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

ULS Application

0011607899 - AST & Science, LLC

File Number	0011607899	Application Status	Q - Accepted
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	04/22/2026
Waiver	Yes	Number of Rules	
Attachments	Yes		
Application Fee Exempt	No	Waiver/Deferral Fee	No

Licensee Information

FRN	0003715919	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	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		Gender	
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.

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

Call Sign KNKN939	File Number 0009611517
Radio Service CL - Cellular	
Market Numer CMA450	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003715919

Market Name Kentucky 8 - Mason				
Grant Date 08-31-2021	Effective Date 08-31-2021	Expiration Date 10-01-2031	Five Yr Build-Out Date	Print Date 08-31-2021

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	38-14-43.5 N	083-25-18.5 W	405.1	113.1	1042211
Address: (Morehead) 0.7 MI EAST OF I-64					
City: MOREHEAD County: ROWAN 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)	183.300	181.800	197.200	189.500	213.200	282.500	230.300	211.300
Transmitting ERP (watts)	109.380	92.970	24.110	1.090	0.570	0.570	3.870	42.970

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)	183.300	181.800	197.200	189.500	213.200	282.500	230.300	211.300
Transmitting ERP (watts)	0.570	7.630	54.070	90.410	66.280	14.190	0.570	0.570

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)	183.300	181.800	197.200	189.500	213.200	282.500	230.300	211.300
Transmitting ERP (watts)	7.790	0.870	0.870	1.130	30.360	219.460	332.170	112.550

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: KNKN939

File Number: 0009611517

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	38-22-47.8 N	083-36-07.4 W	360.6	89.0	1042226

Address: GODDARD SITE: 1 MINE OF SR 32

City: FLEMINGSBURG County: FLEMING 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)	171.000	124.000	141.000	158.000	196.000	194.000	190.000	176.000
Transmitting ERP (watts)	78.380	78.380	78.380	78.380	78.380	78.380	78.380	78.380

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	38-35-09.0 N	083-18-50.0 W	333.5	91.1	1042228

Address: Route 1, Box 281C, Alum Rock Ridge Road

City: Vanceburg County: LEWIS 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)	155.000	183.000	153.000	167.000	14.000	109.000	206.000	196.000
Transmitting ERP (watts)	1.790	0.130	0.530	9.820	38.200	40.000	38.200	24.660

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	38-43-28.3 N	083-59-01.7 W	283.0	61.0	

Address: CHATHAM SITE: Route 2 Dutch Ridge Road

City: Augusta County: BRACKEN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 104.000

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.000	143.000	112.000	68.000	81.000	87.000	94.000	125.000
Transmitting ERP (watts)	0.300	1.100	29.600	158.900	200.000	200.000	141.600	23.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	38-33-55.0 N	083-29-06.0 W	371.8	96.0	1008401

Address: TOLLSBORO SITE: Shaw Hollow Road

City: Heron Hill County: LEWIS 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)	221.400	215.400	183.000	157.500	173.600	192.800	215.900	220.400
Transmitting ERP (watts)	24.300	31.600	75.900	100.000	91.200	100.000	75.900	31.600

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN939

File Number: 0009611517

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	38-03-34.6 N	083-30-18.6 W	367.6	59.5	

Address: (CAVE RUN LAKE SITE) 148 Dogwood Lane

City: Salt Lick County: BATH 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)	159.900	129.900	142.800	141.500	146.200	98.300	148.100	185.600
Transmitting ERP (watts)	339.910	219.460	27.000	0.940	0.740	0.740	6.940	109.990

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)	159.900	129.800	142.800	141.500	146.200	98.300	148.100	185.600
Transmitting ERP (watts)	7.580	80.260	150.740	147.740	73.360	6.530	0.670	0.670

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)	159.900	129.800	142.800	141.500	146.200	98.300	148.100	185.600
Transmitting ERP (watts)	6.330	0.740	0.740	1.000	28.930	224.580	339.910	107.490

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	38-20-40.0 N	084-00-52.0 W	309.1	88.1	1042230

Address: 685 STONEY CREEK ROAD

City: CARLISLE County: NICHOLAS 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)	166.000	152.000	166.000	114.000	124.000	130.000	132.000	131.000
Transmitting ERP (watts)	100.000	91.200	97.700	75.100	31.000	22.800	30.000	74.600

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	38-19-06.7 N	084-07-20.5 W	271.3	126.2	1043355

Address: Millersburg - Secondary Status INTERSECTION OF US-68 AND HWY-386

City: MILLERSBURG County: NICHOLAS State: KY Construction Deadline: 02-03-2011

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)	89.400	100.400	84.100	87.700	82.800	88.400	107.200	98.600
Transmitting ERP (watts)	21.470	116.160	249.550	186.880	52.430	7.980	1.070	3.620

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)	89.400	100.300	84.100	87.700	82.800	88.400	107.200	98.600
Transmitting ERP (watts)	2.940	1.070	4.810	44.690	166.680	258.690	133.990	29.980

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN939

File Number: 0009611517

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	38-19-06.7 N	084-07-20.5 W	271.3	126.2	1043355

Address: Millersburg - Secondary Status INTERSECTION OF US-68 AND HWY-386

City: MILLERSBURG County: NICHOLAS State: KY Construction Deadline: 02-03-2011

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)	89.400	100.300	84.100	87.700	82.800	88.400	107.200	98.600
Transmitting ERP (watts)	231.550	86.500	13.240	1.430	1.070	10.280	72.270	212.780

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	38-00-01.1 N	083-53-10.6 W	273.1	79.2	1259550

Address: Camargo: McCormick Rd

City: Mount Sterling County: MONTGOMERY State: KY Construction Deadline: 03-15-2011

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)	58.800	89.000	58.100	52.400	77.500	108.300	48.900	53.000
Transmitting ERP (watts)	80.420	105.360	47.400	3.550	0.420	0.420	0.510	15.780

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)	58.800	89.000	58.100	52.400	77.500	108.300	48.900	53.000
Transmitting ERP (watts)	0.420	2.660	40.920	102.960	85.680	19.860	0.740	0.420

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)	58.800	89.000	58.100	52.400	77.500	108.300	48.900	53.000
Transmitting ERP (watts)	14.720	0.490	0.420	0.420	3.960	48.410	106.090	78.760

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-57-38.2 N	083-46-12.6 W	382.2	77.1	1252133

Address: (Means) 377 WHISPERING PINE

City: MEANS County: MENIFEE State: KY Construction Deadline: 05-07-2014

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)	180.800	156.300	120.900	126.400	168.900	182.800	192.600	178.700
Transmitting ERP (watts)	224.380	66.950	4.480	0.560	0.560	0.560	4.180	70.080

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)	180.800	156.300	120.900	126.400	168.900	182.800	192.600	178.700
Transmitting ERP (watts)	0.800	12.020	108.360	152.140	25.100	0.860	0.560	0.560

Licensee Name: RURAL CELLULAR CORPORATION

Call Sign: KNKN939

File Number: 0009611517

Print Date: 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-57-38.2 N	083-46-12.6 W	382.2	77.1	1252133

Address: (Means) 377 WHISPERING PINE

City: MEANS **County:** MENIFEE **State:** KY **Construction Deadline:** 05-07-2014

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)	180.800	156.300	120.900	126.400	168.900	182.800	192.600	178.700
Transmitting ERP (watts)	0.560	0.560	0.560	2.170	29.560	197.230	127.870	10.480

Control Points:

Control Pt. No. 2

Address: 500 W Dove Rd

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

Waivers/Conditions:

The action taken with respect to Application #0004014002 does not preclude or prejudice any potential enforcement action regarding this Application, and does not constitute a waiver of any of the Commission's rules with respect to this Application.

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	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	Type	Corporation
Name	Rural Cellular Corporation ATTN Regulatory 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022		P:(770)797-1070 E:licensingcompliance@verizonwireless.com
Real Party In Interest	Cellco Partnership	FRN of Real Party in Interest	0003290673
Race		Gender	
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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FEDERAL COMMUNICATIONS COMMISSION
Wireless Telecommunications Bureau

Spectrum Leasing Arrangement

04/23/2026

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.

ULS Application

AWS (1710-1755 MHz and 2110-2155 MHz) - 0009773195 - Rural Cellular Corporation

File Number	0009773195	Radio Service	AW - AWS (1710-1755 MHz and 2110-2155 MHz)
Call Sign	WQGA821	Application Status	G - Granted

General Information

Application Purpose	RO - Renewal Only	Emergency STA	
Existing Radio Service		Action Date	02/13/2022
Authorization Type	Regular	Requested Expiration Date	
Receipt Date	10/25/2021	Number of Rules	
Entered Date	10/25/2021	Grandfathered Privileges	No
Waiver	No	Regulatory Fee Exempt	No
Attachments	Yes		
Application Fee Exempt	No		
Major Request			
Use Question			

Market Data

Market	CMA450 - Kentucky 8 - Mason	Channel Block	A
Submarket Designator	0	Associated Frequencies (MHz)	001710.00000000-001720.00000000 002110.00000000-002120.00000000

Applicant Information

FRN	0003715919	Type	Corporation
Name	Rural Cellular Corporation 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022		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 Wireless Licensing - Manager 5055 North Point Pkwy, NP2NE Network Engineering Alpharetta, GA 30022	P:(770)797-1070 F:(770)797-1036 E:LicensingCompliance@VerizonWireless.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		Sex	
Ethnicity			

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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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: RURAL CELLULAR CORPORATION

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

Call Sign WQGA821	File Number 0009773195
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003715919

Grant Date 02-13-2022	Effective Date 02-13-2022	Expiration Date 11-29-2036	Print Date 02-15-2022
Market Number CMA450	Channel Block A		Sub-Market Designator 0
Market Name Kentucky 8 - Mason			
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: WQGA821

File Number: 0009773195

Print Date: 02-15-2022

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

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	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	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
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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. 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: 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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EXHIBIT B

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



11101 ANDERSON DR SUITE 200
LITTLE ROCK, AR 72212

PROPOSED ±160' MONOPOLE TOWER
W/ ±4' LIGHTNING ROD TOTAL TOWER HEIGHT ±164'

MOOREFIELD RD - RAWLAND BTS

ELECTRICAL UTILITY COORDINATION
IS NOT FINALIZED. DO NOT PROCEED
WITH CONSTRUCTION.

CANE RUN RD
CARLISLE, KY 40311
NICHOLAS COUNTY
SITE #: KY0007119

FROM LOUISVILLE MTSO: 2441 HOLLOWAY RD, LOUISVILLE, KY 40299: FROM PLANTSIDE DR AND BLANKENBAKER PKWY (2.0MI). HEAD SOUTH ON HOLLOWAY RD TOWARD PLANTSIDE DR (358FT). TURN LEFT AT THE 1ST CROSS STREET ONTO PLANTSIDE DR (0.9MI). USE THE LEFT 2 LANES TO TURN LEFT ONTO BLANKENBAKER PKWY (0.7MI). USE THE RIGHT LANE TO TAKE THE RAMP ONTO I-64 E (0.3MI). FOLLOW I-64 E TO KY-11 N/US-460 W/MAYSVILLE RD IN MOUNT STERLING. TAKE EXIT 110 FROM I-64 E (92.1MI). MERGE ONTO I-64 E (63.6MI). KEEP LEFT AT THE FORK TO STAY ON I-64 E, FOLLOW SIGNS FOR WINCHESTER/ASHLAND (28.2MI). TAKE EXIT 110 FOR US-460/KY-11 TOWARD FLEMINGSBURG/MT STERLING (0.3MI). CONTINUE ON KY-11 N TO YOUR DESTINATION IN NICHOLAS COUNTY (17.7MI). TURN LEFT ONTO KY-11 N/US-460 W/MAYSVILLE RD (12.1MI). TURN LEFT ONTO KY-36 W (3.2 MI). SLIGHT RIGHT ONTO KY-36 (2.3 MI.). TURN RIGHT ONTO STATE HWY 928 (250 FT). SITE IS ON THE LEFT.

FROM NICHOLAS COUNTY CLERK: 125 E MAIN ST, CARLISLE KY 40311: HEAD EAST ON E CHESTNUT ST (490 FT). TURN RIGHT ONTO N WALNUT ST (354 FT). TURN LEFT ONTO E MAIN ST (0.3 MI.). CONTINUE ONTO KY-36 E (4.5 MI.). TURN LEFT ONTO STATE HWY 928 (250 FT). SITE IS ON THE LEFT.

TOWER OWNER SITE

SITE NAME: MOOREFIELD RD
SITE #: KY0007119

VERIZON WIRELESS SITE

MOOREFIELD RD
MARKET ID: LV
MDG LOCATION ID: 5000929139
FUZE ID: 16504243
SITE #: 616994690

SITE ADDRESS

CANE RUN RD
CARLISLE, KY 40311
NICHOLAS COUNTY

TOWER OWNER

HARMONI TOWERS
11101 ANDERSON DRIVE
HARMONI TOWERS, LLC
CONTACT: JOE RIVERA
PHONE: (616) 308-9731
E-MAIL:
joseph.rivera@harmonitowers.com

PROPERTY OWNER

THE KIMBERLY RAWLINGS REVOCABLE
LIVING TRUST
3233 MOOREFIELD RD
CARLISLE KY 40311

POLICE

CARLISLE POLICE DEPARTMENT
107 E CHESTNUT ST
CARLISLE, KY 40311
PHONE: (859) 289-3710

FIRE

NICHOLAS COUNTY FIRE DEPARTMENT
250 S WALNUT ST
CARLISLE, KY 40311
(859) 707-0325

GENERAL INFORMATION

— 38° 17' 49.37" N
LATITUDE — 83° 57' 05.48" W
LONGITUDE — 1983 (NAD83)
ELEVATION — ±1,006.0' AMSL
1988 (NAVD88)

TOWER OWNER LEASE AREA

IRREGULAR (7,745 SF)

VERIZON WIRELESS LEASE AREA

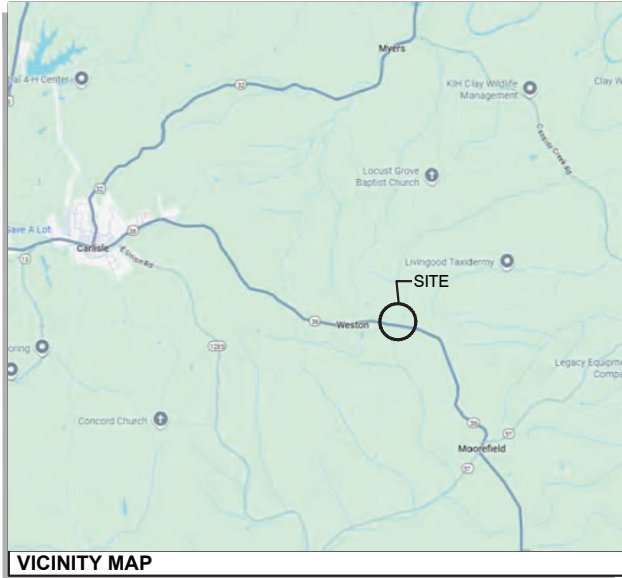
PROPOSED 12'-0" x 25'-0" (300 SF)

PROJECT TOTAL DISTURBED AREA

COMPOUND & SURROUNDING GRADE WORK:
(7,745 SF) = (0.178 ACRE)
ACCESS DRIVE: (4,057 SF) = (0.093 ACRE)
GROSS AREA: (11,802 SF) = (0.271 ACRE)

ALL CONSTRUCTION ITEMS ARE TO BE
COMPLETED BY THE TOWER OWNER GENERAL
CONTRACTOR UNLESS NOTED AS (VZW GC)
WHICH SHALL BE COMPLETED BY THE VERIZON
WIRELESS GENERAL CONTRACTOR.

PROJECT SUMMARY



PROJECT DESCRIPTION:

• ALL WORK ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY THE TOWER OWNER'S GENERAL CONTRACTOR AND THEIR SUB-CONTRACTOR(S) UNLESS NOTED AS (VZW GC) WHICH SHALL BE PERFORMED BY THE VERIZON WIRELESS GENERAL CONTRACTOR AND THEIR SUB-CONTRACTOR(S), AND IS GENERALLY DESCRIBED BELOW.
• PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY

RESPONSIBLE PARTY		ITEM OF WORK
TOWER OWNER	VERIZON	
X		INSTALL THE TOWER
X		INSTALL THE FENCED GRAVEL COMPOUND AND ALL GENERAL SITE CONSTRUCTION ITEMS
X		INSTALL A GRAVEL ACCESS DRIVE
X		INSTALL TOWER AND SITE GROUNDING
X		INSTALL VERIZON GROUNDING (IN VERIZON LEASE SPACE)
X		INSTALL NEW ELECTRICAL SERVICE TO THE NEW UTILITY H-FRAME
X		OBTAIN VERIZON METER WITH THE NEW ELECTRICAL SERVICE REQUEST
X		INSTALL CONCRETE FOUNDATIONS FOR VERIZON EQUIPMENT AND GENERATOR
X		INSTALL VERIZON PROPANE TANK CONCRETE FOUNDATION AND BELOW GRADE FUEL LINE CONDUIT (ONLY FOR SITES WITH PROPANE GENERATOR AND TANKS)
X		INSTALL VERIZON ICE BRIDGE AND FOUNDATIONS
X		INSTALL VERIZON EQUIPMENT H-FRAME w/ FOUNDATION, AND ICE PROTECTION
X		INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPE FROM UTILITY H-FRAME TO VERIZON ILC STUB UP LOCATION
X		INSTALL CONDUIT(S) WITH PULL TAPE FROM VERIZON ILC STUB UP LOCATION TO GENERATOR STUB UP LOCATION
X		INSTALL TELCO CONDUIT(S) w/ TRACER WIRE FROM HANDHOLE(S) AT PUBLIC R.O.W. TO THE UTILITY H-FRAME OR HANDHOLE(S) AT COMPOUND - VERIZON HANDHOLE(S) TO BE LABELLED AS "VERIZON WIRELESS ONLY". INSTALL TOWER OWNER ONLY FIBER CONDUIT IN SAME TRENCH WITH SEPARATE J.U.H.
X		INSTALL VERIZON ONLY TELCO CONDUIT w/ TRACER WIRE FROM UTILITY H-FRAME/COMPOUND HANDHOLE TO VERIZON EQUIPMENT H-FRAME
	X	INSTALL VERIZON EQUIPMENT CABINET(S), GENERATOR AND PREFABRICATED CANOPY AND SUPPORTS
	X	INSTALL VERIZON PROPANE TANK AND FUEL LINE TO GENERATOR (ONLY FOR SITES WITH PROPANE GENERATOR AND TANKS)
	X	CONNECT SUBSURFACE GROUND LEADS (INSTALLED BY TOWER OWNER) TO VERIZON EQUIPMENT AND FACILITIES
	X	FURNISH AND INSTALL VERIZON ANTENNA MOUNT ASSEMBLY ON TOWER
	X	INSTALL VERIZON ANTENNAS, LINES, RADIO EQUIPMENT, AND OPS ANTENNA
	X	INSTALL GROUND OVP AND CABLEING ON VERIZON EQUIPMENT H-FRAME
	X	INSTALL ILC ENCLOSURE, POWER AND FIBER JUNCTION BOXES AND ASSOCIATED CONDUITS WITH PULL TAPES ON VERIZON EQUIPMENT H-FRAME
	X	INSTALL VERIZON ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO ILC ENCLOSURE ON VERIZON EQUIPMENT H-FRAME
	X	INSTALL CIRCUITS FROM ILC ENCLOSURE TO VERIZON EQUIPMENT CABINET(S) AND GENERATOR.

PROJECT DESCRIPTION



ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

BUILDING CODE 2018 KENTUCKY BUILDING CODE (IBC 2015)
STRUCTURAL CODE TIA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2)
MECHANICAL CODE 2015 INTERNATIONAL MECHANICAL CODE (IMC 2015)
PLUMBING CODE KENTUCKY STATE PLUMBING CODE (B15 KAR CHAP. 20)
ELECTRICAL CODE 2017 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
FIRE/LIFE SAFETY CODE 2015 INTERNATIONAL FIRE CODE (2015 IFC)
ENERGY CODE 2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
GAS CODE 2012 NATIONAL FUEL GAS CODE (NFPA 54)

ACCESSIBILITY REQUIREMENTS:

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

APPLICABLE CODES

SURVEYOR

SHARONDALE SURVEYING, INC.
7733 SECOND FIDDLE WAY
ARRINGTON, TN 37014
CONTACT: FRANK NEELEY
PHONE: -
EMAIL: -

ELECTRICAL

KENTUCKY UTILITIES
1 QUALITY ST
LEXINGTON, KY 40507
CONTACT: N/A
(800) 981-0600
EMAIL: N/A

ARCHITECTURAL

ARCHITECTURAL:
LASHBROOK ENGINEERING
CONTACT: JEFFREY LASHBROOK
PHONE: (270) 314-3929
EMAIL: jlashbrook@ashbrookengineering.com

PREPARED FOR:

BOWMAN
ADDRESS: 3001 TAYLOR SPRINGS DR
LOUISVILLE, KY 40220
PHONE: (502) 459-8402

CONSULTANT TEAM



SHEET NUMBER

DESCRIPTION

T-1 PROJECT INFORMATION, SITE MAPS,
SHEET INDEX
S, A-1-1A SURVEY PLAN & ADJOINERS MAP

CIVIL

C-1 OVERALL SITE PLAN w/AERIAL OVERLAY
C-1A OVERALL SITE PLAN w/PLATFORM DISTANCE TO PROPERTY LINES
C-1B TOWER DISTANCE TO RESIDENTIAL STRUCTURES
C-2 GRADING AND E&S CONTROL PLAN
C-3 DETAILED SITE PLAN
C-4 DIMENSIONED SITE PLAN

SITE DETAILS

D-1 FENCE DETAILS AND NOTES
D-2 SITE DETAILS
D-3 EQUIPMENT PAD & CANOPY ELEVATIONS
D-4 VERIZON WIRELESS SIGNAGE (REFERENCE ONLY)
D-5 TOWER OWNER SITE FENCE SIGNAGE (REFERENCE ONLY)

STRUCTURAL

TOWER ELEVATION

TE-1 TOWER ELEVATION

ELECTRICAL

GROUNDING

REFERENCE DRAWINGS

RF-1 ANTENNA PLAN AND DETAILS (REFERENCE ONLY)
REF-1 GENERATOR SPECIFICATIONS (REFERENCE ONLY)
PL-1 SITE PHOTO LOG (REFERENCE ONLY)

TOWER (BY OTHERS)

Jeffrey T
Lashbrook

Jeffrey T
Lashbrook
2026.07.29
13:00:39 -04'00'

Bowman

3001 TAYLOR SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 459-8402

LASHBROOK
ENGINEERING

CRESTWOOD, KENTUCKY 40014
PHONE: (270) 314-3929

HARMONI
TOWERS

11101 ANDERSON DR SUITE 200
LITTLE ROCK, AR 72212
PHONE: (501) 621-0521

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/08/26	PRELIM CDS
1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

PROJECT INFORMATION,
SITE MAPS, SHEET INDEX

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

T-1

UNK PAD & CANOPY REV 4.3.2 05/30/25

FLOOD HAZARD STATEMENT:

THIS COMMUNICATIONS SITE (THE SUBJECT SITE AS SHOWN) IS NOT LOCATED WITHIN THE LIMITS OF A DESIGNATED 100 YEAR FLOOD ZONE PER FEMA FIRM MAP COMMUNITY PANEL NUMBER 21181C 0150 C, NICHOLAS COUNTY, KENTUCKY. EFFECTIVE DATE AUGUST 5, 2010.

PROJECT BENCHMARK

PROJECT BENCHMARK ELEVATION DATUM IS BASED UPON GPS SURVEY METHODS AND PROCEDURES.
TOP OF SURVEY NAIL SET IN EDGE OF PAVEMENT
ELEVATION = 988.24' N.A.V.D. 88
(SEE PLAN FOR LOCATION)

CENTERLINE OF PROPOSED
TOWER LEASE AREA
LATITUDE = 38° 17' 49.37"
LONGITUDE = 83° 57' 05.48"
ELEVATION = 1,006.00' N.A.V.D. 88

KY SPC (SOUTH ZONE)
NAD 86 GRID NORTH



25 0 25 50 75

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



SPECIAL NOTE:

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

LEGENDS:

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

GENERAL NOTES:

I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THIS PLAT WAS PREPARED BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION OF THE TRAVERSE RATIO WAS 1:23,330, AND WAS NOT ADJUSTED. THE SURVEY AS SHOWN HEREON IS AN URBAN SURVEY, AND THE ACCURACY AND PRECISION OF SAID SURVEY MEETS ALL THE SPECIFICATIONS OF THIS CLASS.

F. V. Neeley
FRANK V. NEELEY, P.L.S. 3093

DATE FEBRUARY 7, 2024

- TOPOGRAPHIC ELEVATIONS SHOWN WERE DERIVED FROM GRID CROSS-SECTIONS, USING A TOTAL STATION FOR HORIZONTAL AND VERTICAL CONTROL. ALL DISTANCES MEASURED HAVE BEEN ADJUSTED FOR TEMPERATURE.
- PARCEL NUMBERS SHOWN THUS (00), ARE OF RECORD IN THE PROPERTY VALUATION OFFICE OF NICHOLAS COUNTY, KENTUCKY.
- BEARINGS SHOWN ARE REFERENCED FROM GLOBALLY POSITIONED SATELLITE MONUMENTS AS ESTABLISHED FOR THIS SURVEY.
- PROPERTY OWNERS:
GREG & KIM RAWLINGS, HUSBAND AND WIFE
3233 MOORESFIELD ROAD
CARLISLE, KY 40311
- IRON PINS SET ARE 18" MINIMUM LENGTH REINFORCING STEEL BARS WITH A PLASTIC CAPPED EMBOSSED "KY PLS #3093", UNLESS ROCK OR OTHER LIKE MATERIAL IS ENCOUNTERED.
- DATE OF FIELD SURVEY: TUESDAY, AUGUST 5, 2025.
- NOT VALID WITHOUT THE ORIGINAL SIGNATURE OF THE PROFESSIONAL LICENSED SURVEYOR.
- NO WETLAND AREAS HAVE BEEN INVESTIGATED BY THIS SURVEYOR.

PLOT DATE: JULY 28, 2026

GREG & KIM RAWLINGS, HUSBAND AND WIFE
DEED BOOK 90, PAGE 189
(PARCEL 039-00-00-018.00)

HARMONI TOWERS ASSETCO LLC'S 30' WIDE
JOINT ACCESS & UTILITY EASEMENT

"POINT OF BEGINNING"
HARMONI TOWERS ASSETCO
LLC'S TOWER LEASE AREA
KY SPC (SOUTH ZONE)
NAD 83 GRID COORDINATE
NORTH 2,360,413.00
EAST 2,156,603.56

HARMONI TOWERS ASSETCO LLC'S
TOWER LEASE AREA

"POINT OF BEGINNING"
HARMONI TOWERS ASSETCO LLC'S 30' WIDE
JOINT ACCESS & UTILITY EASEMENT
KY SPC (SOUTH ZONE)
NAD 83 GRID COORDINATE
NORTH 2,360,435.73
EAST 2,156,772.83

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

UTILITY NOTE:

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

GPS SURVEY CERTIFICATION:

- THIS SURVEY WAS PERFORMED USING RTK POSITIONAL DATA.
- EQUIPMENT USED WAS A SOKKIA GRX3, DUAL FREQUENCY, BASE SERIAL # 1467-10585, ROVER SERIAL # 1467-10590.
- THE GRID COORDINATES OF THE FIXED STATION(S) SHOWN WERE DERIVED USING A VRS NETWORK OF THE CORPS STATIONS REFERENCING NAD 83 (2011), (EPOCH 2010), GEOID 12B.
- THE RELATIVE POSITIONAL ACCURACY OF THE GPS VECTORS DOES NOT EXCEED 0.1" H & 0.01" V.
- BEARINGS ARE RELATIVE TO KENTUCKY (SOUTH ZONE) STATE PLANE. ALL REFERENCES TO GRID BEARINGS AND KENTUCKY (SOUTH ZONE) STATE PLANE COORDINATES AS INDICATED ARE UNADJUSTED, NAD 83 SURVEY FEET, WITH CONVERGENCE ANGLE OF -1.83036944 DEGREES, A SCALE FACTOR OF 1.00042076 DEGREES, AND A COMBINED FACTOR OF 1.00037770 DEGREES.

STATE OF KENTUCKY
F. V. NEELEY
LS-3093
LICENSED
PROFESSIONAL
LAND SURVEYOR

SHARONDALE
SURVEYING
INC.

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

HARMONI TOWERS ASSETCO LLC SITE SURVEY: KENTUCKY
"LV MOORESFIELD ROAD" TOWER SITE
LOCATED IN: NICHOLAS COUNTY, KENTUCKY
TOWER LEASE AREA SURVEY
PREPARED FOR: HARMONI TOWERS ASSETCO LLC
HARMONI TOWERS ASSETCO LLC SITE NUMBER: KY-0007119

SHEET NUMBER:

1 OF 2

PROJECT NUMBER:

225.056.20

**HARMONI TOWERS ASSETCO LLC'S
TOWER LEASE AREA DESCRIPTION**

Beginning at a capped "Sharondale Nashville" iron pin set at the north corner of Harmoni Towers Assesto LLC's tower lease area located at Kentucky State Plane (South Zone) NAD 83 Grid Coordinate North 2,360,413.00, East 2,156,603.56;

Thence, South 38 degrees 13 minutes 19 seconds East, 80.00 feet to a capped "Sharondale Nashville" iron pin set at the east corner of Harmoni Towers Assesto LLC's tower lease area;

Thence, South 51 degrees 46 minutes 41 seconds West, 75.00 feet to a capped "Sharondale Nashville" iron pin set at the southeast corner of Harmoni Towers Assesto LLC's tower lease area

Thence, North 82 degrees 27 minutes 01 second West, 60.00 feet to a capped "Sharondale Nashville" iron pin set at the southwest corner of Harmoni Towers Assesto LLC's tower lease area;

Thence, North 7 degrees 32 minutes 59 seconds East, 53.05 feet to a capped "Sharondale Nashville" iron pin set at the west corner of Harmoni Towers LLC's tower lease area;

Thence, North 51 degrees 46 minutes 41 seconds East, 78.84 feet to the point of beginning, containing 7,745 square feet, (0.178 acres).

Being a portion of the property conveyed to Greg Rawlings and Kim Rawlings, Husband and wife, of record in Deed Book 90, Page 189, of the Court Clerk's Office of Nicholas County, Kentucky.

**HARMONI TOWERS ASSETCO LLC'S 30' WIDE
JOINT ACCESS & UTILITY EASEMENT AREA DESCRIPTION**

Being a thirty foot wide joint access and utility easement extending from the northwest margin of Cane Run Road to the northeast margin of Harmoni Towers Assesto LLC's tower lease area, being more particularly described as follows:

Beginning at a capped "Sharondale Nashville" iron pin set in the northwest margin of Cane Run Road located at Kentucky State Plane (South Zone) NAD 83 Grid Coordinate North 2,360,435.73, East 2,156,772.83;

Thence, with the northwest margin of Cane Run Road, South 48 degrees 51 minutes 41 seconds West, 44.38 feet to a capped "Sharondale Nashville" iron pin set;

Thence, leaving the northwest margin of Cane Run Road, North 89 degrees 43 minutes 42 seconds West, 56.23 feet to a point;

Thence, South 51 degrees 46 minutes 41 seconds West, 58.76 feet to a capped "Sharondale Nashville" iron pin set in the northeast corner of Harmoni Towers Assesto LLC's tower lease area;

Thence, northwest margin of Harmoni Towers Assesto LLC's tower lease area, North 38 degrees 13 minutes 19 seconds West, 30.00 feet to a capped "Sharondale Nashville" iron pin set;

Thence, leaving the northwest margin of Harmoni Towers Assesto LLC's tower lease area, North 51 degrees 46 minutes 41 seconds East, 69.24 feet to a point;

Thence, South 89 degrees 43 minutes 42 seconds East, 99.41 feet to the point of beginning, containing 4,255 square feet, (0.098 acres).

Being a portion of the property conveyed to Greg Rawlings and Kim Rawlings, Husband and wife, of record in Deed Book 90, Page 189, of the Court Clerk's Office of Nicholas County, Kentucky.

UNDERLYING LANDOWNER'S PROPERTY AREA DESCRIPTION

Lying and being situated in the County of Nicholas, State of Kentucky, and being more particularly described as follows:

Beginning at a stone in John Robinson's line and corner to said first party's other land; thence South 7-3/4 degrees W 30.50 poles corner to said Robinson; thence South 23 3-4 degrees E 32.90 poles to a poplar corner to same; thence S 36-1/4 degrees E 40 poles to a stone near a large pool corner to same; thence S 5-3/4 degrees W 4.20 poles to a stone corner to same; thence S 72-1/4 degrees E 5 poles to a point in the Cane Run Pike corner to said Robinson; thence with said pike South 10 3/4 degrees W 10.20 poles, S 48-1/4 degrees W 17.50 poles; thence No 72 1/4 degrees W 95.28 poles to a stone on the South side of the Carlisle and Sharpsburg Turnpike, corner to said first party's other land and William Kennedy's land; thence N 14-1/2 degrees E 110.72 poles to a stone corner to said first party's other land; thence N 89-1/2 degrees E 46.20 poles to the beginning, containing 51 acres, 2 rods and 20 poles.

There is EXCEPTED from the above described property the property conveyed to Greg Rawlings and Kim Rawlings dated April 14, 1994, and of and of record in Deed Book 90, Page 109 of the Nicholas County Clerk's Office, to wit:

Situated on the north side and adjacent to KY Highway No. 36 and 4.6 miles east of KY Highway No. 32, in Carlisle, Kentucky.

BEGINNING at an iron pin on the north side of Kentucky Highway No. 36 and being 365 feet east of the southwest corner of the Keith Booth and Kay Booth property; thence with three (3) calls (new lines) on and over the Keith Booth and Kay Booth property North 27 deg. 35 min. 34 sec. East to an iron pin, South 67 deg. 11 min. 42 sec. East 399.83 feet to an iron pin, South 45 deg. 29 min. 52 sec. West 651.95 feet to an iron pin. Said pin being on the North side of KY Highway No. 36; thence with the North side of KY Highway No. 36 for two (2) calls, North 65 deg. 45 min. 06 sec. West 98.56' to an iron pin, North 63 deg. 25 min. 32 sec. West a distance of 99.62 feet to the point of beginning, containing 4.116 acres.

Bounded on the North and East by the land of the second party (first tract herein); on the South by the Cane Run Turnpike Road; on the West by the Carlisle and Sharpsburg Turnpike Road, containing one-fourth (1/4) acre.

Tax ID: 039-00-00-018.00

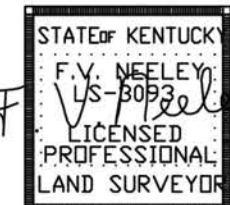
Being the same property conveyed to Greg Rawlings and Kim Rawlings, Husband and Wife, For and During Their Joint lives with Remainder to the Survivor of Them, Grantee, from Edward Keith Booth and Kay Booth, Husband and Wife, Grantor, by Deed Recorded 04/30/1994, as Book 90, Page 189 of the Nicholas County records.

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

NOTES CORRESPONDING TO OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY'S
"TITLE COMMITMENT" - COMMITMENT NO. 01-25027835-01T, ISSUED MAY 19, 2025.

EXCEPTION NUMBERS ONE THROUGH SIX ARE NOT THE TYPE OF EXCEPTION(S) TO BE SHOWN UPON THE FACE OF THIS SURVEY.

- ⑦ RIGHT OF WAY & EASEMENT UNTO SOUTH CENTRAL BELL TELEPHONE COMPANY, OF RECORD IN BOOK 85, PAGE 132, OF THE COURT CLERK'S OFFICE OF NICHOLAS COUNTY, KENTUCKY, IS NOT APPLICABLE TO HARMONI TOWER ASSETCO LLC'S TOWER LEASE AND EASEMENT AREA INTERESTS.
- ⑧ RIGHT OF WAY & EASEMENT IN FAVOR OF SOUTH CENTRAL BELL TELEPHONE COMPANY, OF RECORD IN BOOK 69, PAGE 550, OF THE COURT CLERK'S OFFICE OF NICHOLAS COUNTY, KENTUCKY, IS NOT APPLICABLE TO HARMONI TOWER ASSETCO LLC'S TOWER LEASE AND EASEMENT AREA INTERESTS.
- ⑨ EASEMENT UNTO BELL SOUTH TELECOMMUNICATIONS LLC, A GEORGIS CORPORATION, D/B/A AT&T KENTUCKY, OF RECORD IN BOOK D130, PAGE 268, OF THE COURT CLERK'S OFFICE OF NICHOLAS COUNTY, KENTUCKY, IS NOT APPLICABLE TO HARMONI TOWER ASSETCO LLC'S TOWER LEASE AND EASEMENT AREA INTERESTS.



PLOT DATE: JULY 28, 2026



SHARONDALE
SURVEYING
INC.

161 MARTIN ROAD
BON AQUA, TN 37025

(615) 513-0032
E-Mail: Sharndal@bellsouth.net

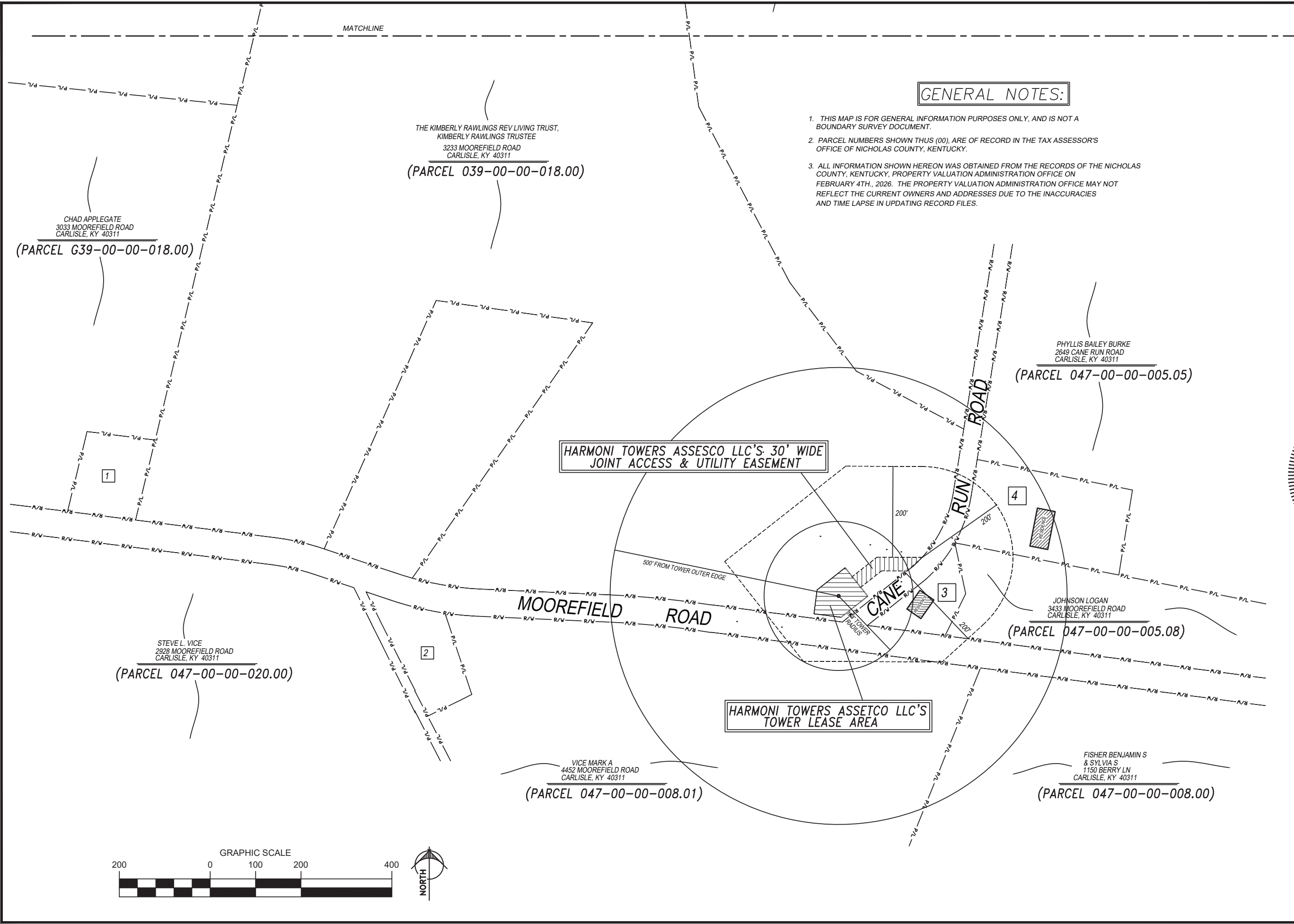
HARMONI TOWERS ASSETCO LLC SITE SURVEY: KENTUCKY
"LV MOOREFIELD ROAD" TOWER SITE
LOCATED IN: NICHOLAS COUNTY, KENTUCKY
TOWER LEASE AREA SURVEY
PREPARED FOR: HARMONI TOWERS ASSETCO LLC
HARMONI TOWERS ASSETCO LLC SITE NUMBER: KY-0007119

SHEET NUMBER:

2 OF 2

PROJECT NUMBER:

225.056.20



Bowman
3001 TAYLOR SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 458-8402

LASHBROOK
ENGINEERING
CRESTWOOD, KENTUCKY 40014
PHONE: (270) 314-3929

HARMONI TOWERS
11101 ANDERSON DR SUITE 200
LITTLE ROCK, AR 72212
PHONE: (501) 621-0521

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/08/26	PRELIM CDS
1	07/26/26	ZONING ISSUE

STATE OF KENTUCKY
JEFFREY LASHBROOK
35042
LICENSED PROFESSIONAL ENGINEER

MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311
ABUTTERS/ ADJOINING
PARCEL MAP

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

A-1
MK PAD & CANOPY REV 4.3.2 05/30/25

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/09/26	PRELIM CDS
1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

ABUTTERS/ ADJOINING
PARCEL MAP

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

A-1A

SPECIAL NOTE:

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

PROPERTY PARCEL OWNERSHIP DATA

- 1 PARCEL G39-00-00-019.00
CHARLIE G. CAMPBELL
3133 MOOREFIELD ROAD
CARLISLE, KY 40311

2 PARCEL 047-00-00-007.00
THE KIMBERLY RAWLINGS REV LIVING TRUST, KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD ROAD
CARLISLE, KY 40311
- 3 PARCEL 047-00-00-006.00
JOHNSON LOGAN
3433 MOOREFIELD ROAD
CARLISLE, KY 40311

4 PARCEL 047-00-00-005.07
PETERSON DON R EST & LINDA S
2673 CANE RUN ROAD
CARLISLE, KY 40311

GENERAL NOTES:

- THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY, AND IS NOT A BOUNDARY SURVEY DOCUMENT.
- PARCEL NUMBERS SHOWN THUS (00), ARE OF RECORD IN THE TAX ASSESSOR'S OFFICE OF NICHOLAS COUNTY, KENTUCKY.
- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE NICHOLAS COUNTY, KENTUCKY, PROPERTY VALUATION ADMINISTRATION OFFICE ON FEBRUARY 4TH., 2026. THE PROPERTY VALUATION ADMINISTRATION OFFICE MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING RECORD FILES.

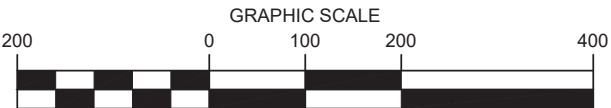
RV
RV

MYNEAR STEVEN C & MYNEAR JOHNNY K
194 LOCUST GROVE ROAD
CARLISLE, KY 40311
(PARCEL 039-00-00-017.00)

WAYNE E. TAPP
2600 CANE RUN ROAD
CARLISLE, KY 40311
(PARCEL 047-00-00-017.00)

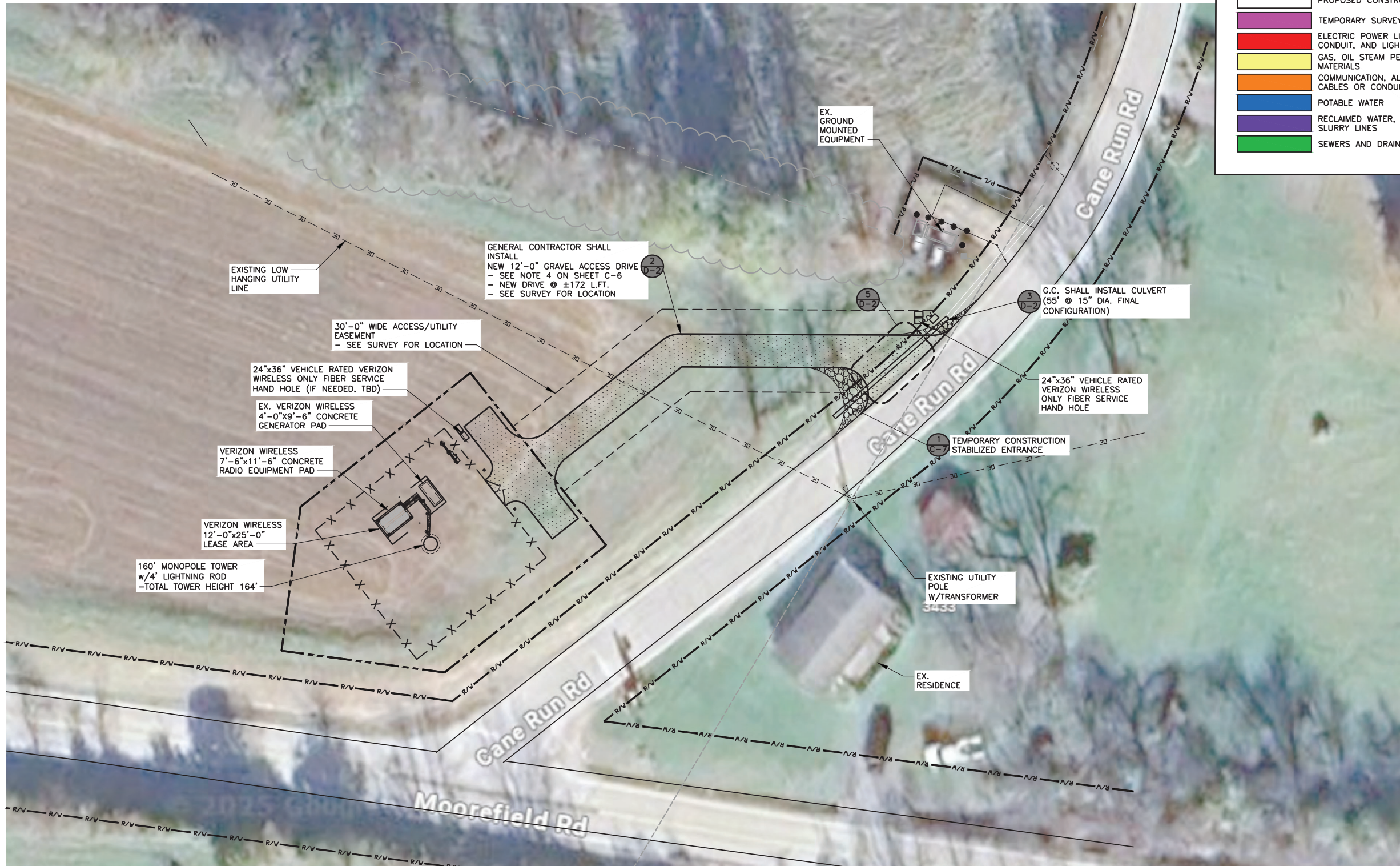
THE KIMBERLY RAWLINGS REV LIVING TRUST,
KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD ROAD
CARLISLE, KY 40311
(PARCEL 039-00-00-018.00)

CHAD APPLGATE
3033 MOOREFIELD ROAD
CARLISLE, KY 40311
(PARCEL G39-00-00-018.00)



APWA UTILITY COLOR CODES

	PROPOSED CONSTRUCTION
	TEMPORARY SURVEY MARKINGS
	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
	GAS, OIL, STEAM, PETROLEUM OR GASEOUS MATERIALS
	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT
	POTABLE WATER
	RECLAIMED WATER, IRRIGATION AND SLURRY LINES
	SEWERS AND DRAIN LINES



REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/09/26	PRELIM CDS
1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311
OVERALL SITE PLAN W/
AERIAL OVERLAY

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

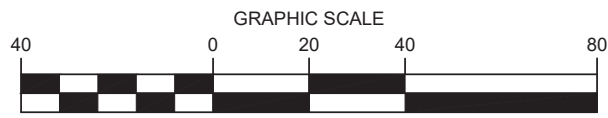
JOB NUMBER
240900-01-152 (25-151)

C-1

MMK PAD & CANOPY REV 4.3.2 05/30/25



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.



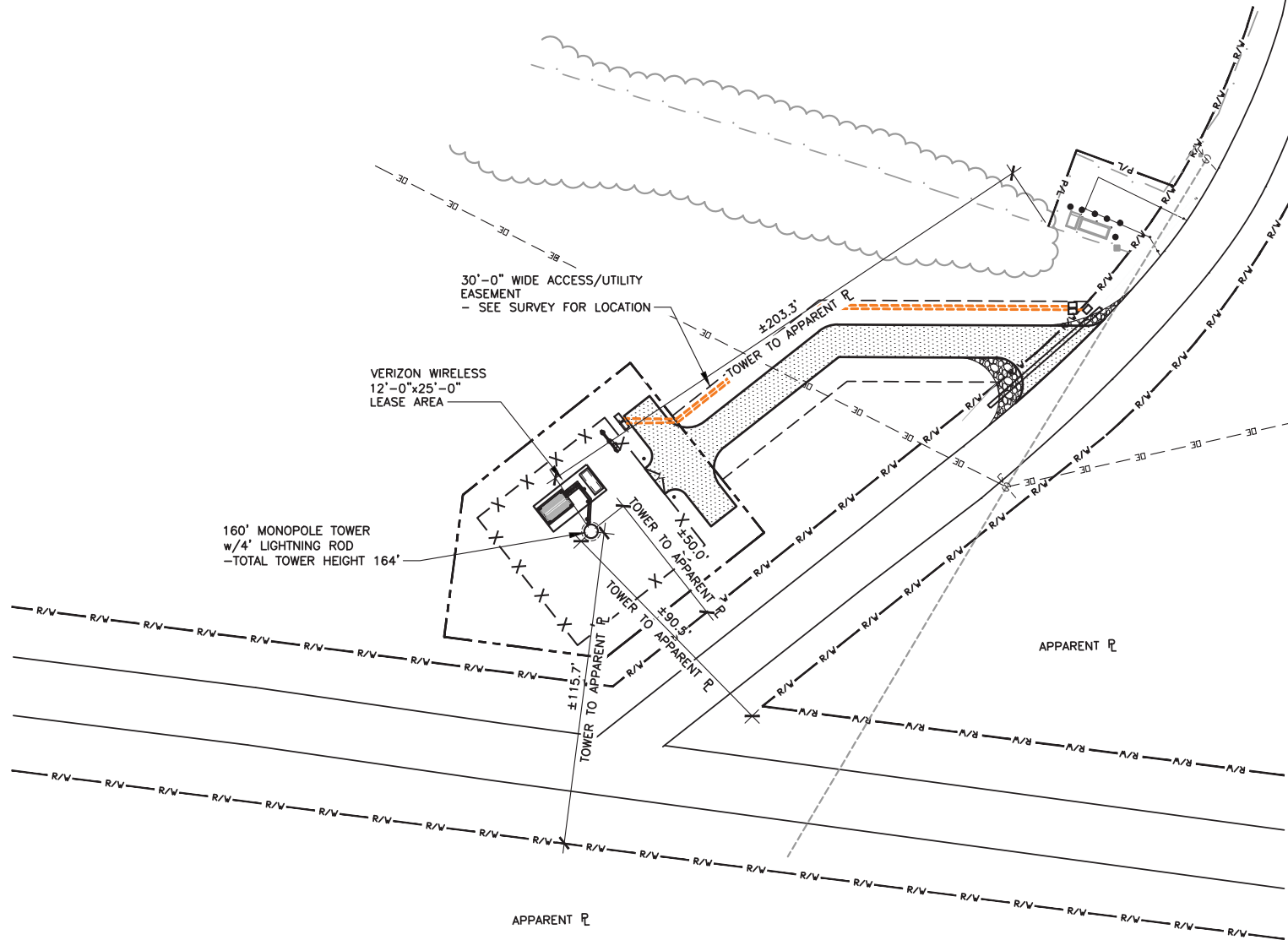
OVERALL SITE PLAN
w/AERIAL OVERLAY

SCALE: 1" = 40'



APWA UTILITY COLOR CODES

	PROPOSED CONSTRUCTION
	TEMPORARY SURVEY MARKINGS
	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
	GAS, OIL, STEAM, PETROLEUM OR GASEOUS MATERIALS
	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT
	POTABLE WATER
	RECLAIMED WATER, IRRIGATION AND SLURRY LINES
	SEWERS AND DRAIN LINES



REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/08/26	PRELIM CDS
1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311
OVERALL SITE PLAN W/
PLATFORM DISTANCE TO
PROPERTY LINES

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

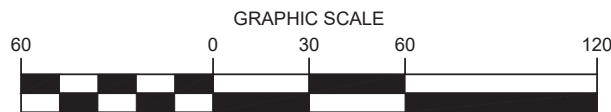
JOB NUMBER
240900-01-152 (25-151)

C-1A

MK PAD & CANOPY REV 4.3.2 05/30/25



Know what's below.
Call before you dig.
Call Monday thru Friday - 7 am. to 6 pm.
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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 w/TOWER
DISTANCE TO PROPERTY LINES

SCALE: 1" = 60'





APWA UTILITY COLOR CODES	
<div></div>	PROPOSED CONSTRUCTION
<div></div>	TEMPORARY SURVEY MARKINGS
<div></div>	ELECTRIC POWER LINES, CABLES, CONDUIT, AND LIGHTING CABLES
<div></div>	GAS, OIL, STEAM, PETROLEUM OR GASEOUS MATERIALS
<div></div>	COMMUNICATION, ALARM OR SIGNAL LINES, CABLES OR CONDUIT
<div></div>	POTABLE WATER
<div></div>	RECLAIMED WATER, IRRIGATION AND SLURRY LINES
<div></div>	SEWERS AND DRAIN LINES

Bowman

3001 TAYLOR SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 458-8402

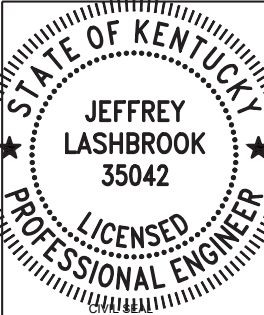
LASHBROOK
ENGINEERING

CRESTWOOD, KENTUCKY 40014
PHONE: (270) 314-3929

HARMONITOWERS

11101 ANDERSON DR SUITE 200
LITTLE ROCK, AR 72212
PHONE: (501) 621-0521

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/08/26	PRELIM CDS
1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

TOWER DISTANCE TO
RESIDENTIAL STRUCTURES

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

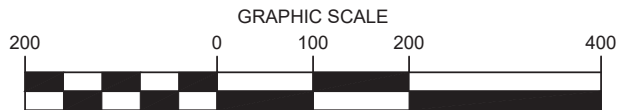
PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

C-1B

MM PAD & CANOPY REV 4.3.2 05/30/25

Kentucky
811
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.



**TOWER DISTANCE TO
RESIDENTIAL STRUCTURES**
SCALE: 1" = 200'





RESTWOOD, KENTUCKY 40014
PHONE: (270) 314-3929

11101 ANDERSON DR SUITE 200
LITTLE ROCK, AR 72212
PHONE: (501) 621-0521

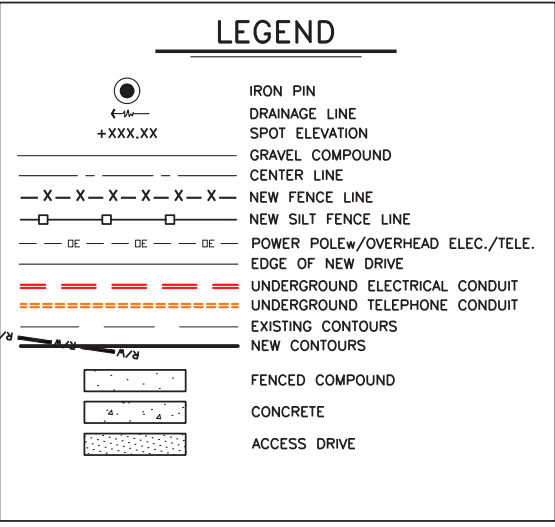
A circular professional engineer seal for the State of Kentucky. The outer ring contains the text "STATE OF KENTUCKY" at the top and "PROFESSIONAL ENGINEER" at the bottom, separated by two stars. The inner circle contains the name "JEFFREY LASHBROOK" and the license number "35042". The word "LICENSED" is written in a smaller font at the bottom of the inner circle. The seal is surrounded by a decorative border of small vertical lines.

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

JOB NUMBER
240900-01-152 (25-151)

C-2

MIK PAD & CANOPY REV 4.3.2 05/30/25



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.

GRADING AND E&S CONTROL PLAN

SCALE: 1" = 30'



REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/09/26	PRELIM CDS
1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311
DETAILED SITE PLAN

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

C-3
MIX PAD & CANOPY REV 4.3.2 05/30/25

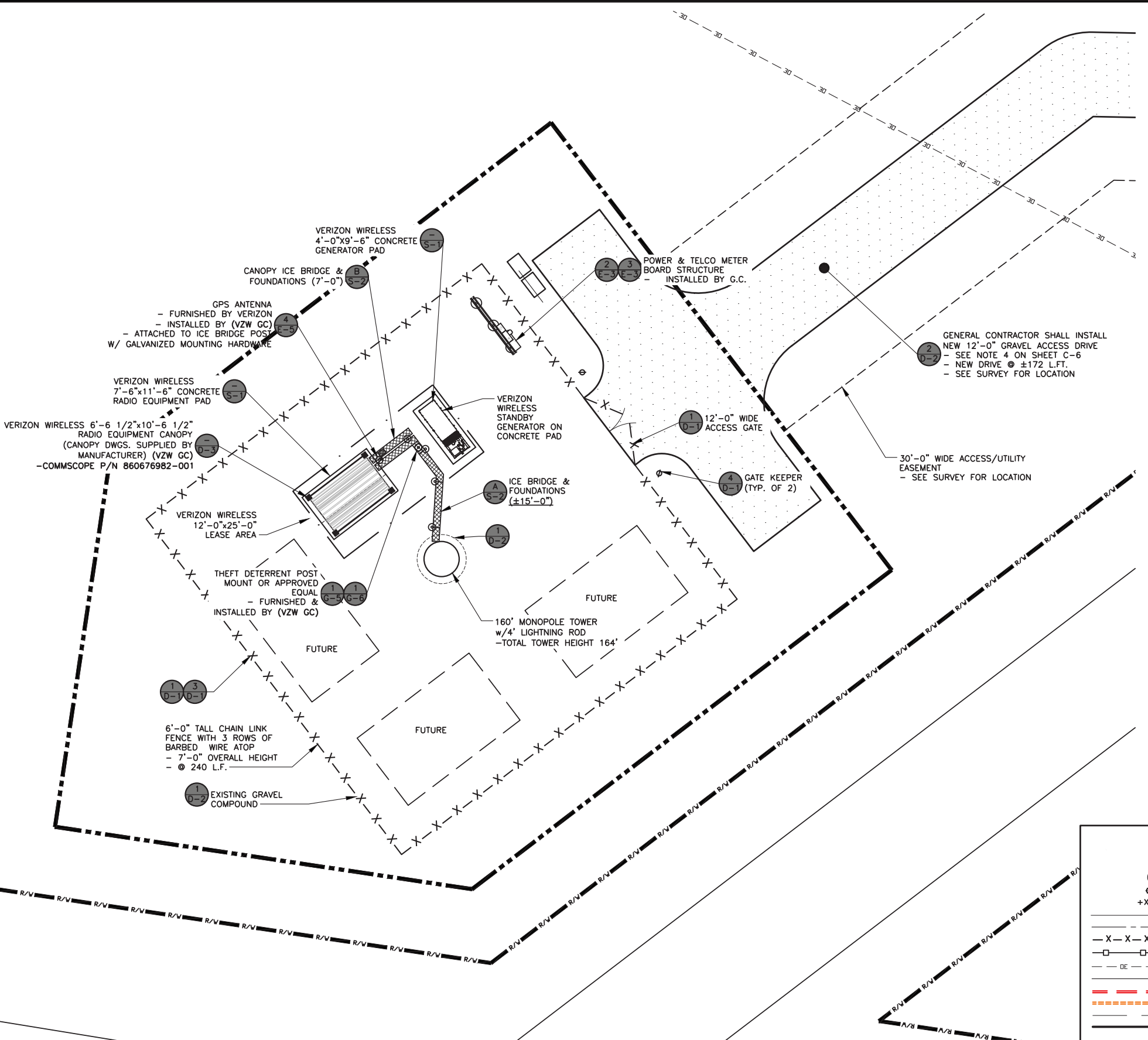


PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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

DETAILED SITE PLAN

SCALE: 1/16" = 1'-0"



LEGEND

	IRON PIN
	DRAINAGE LINE
	SPOT ELEVATION
	CENTER LINE
	NEW FENCE LINE
	NEW SILT FENCE LINE
	POWER POLEw/OVERHEAD ELEC./TELE.
	EDGE OF NEW DRIVE
	UNDERGROUND ELECTRICAL CONDUIT
	UNDERGROUND TELEPHONE CONDUIT
	EXISTING CONTOURS
	NEW CONTOURS
	FENCED COMPOUND
	CONCRETE
	ACCESS DRIVE

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/09/26	PRELIM CDS
1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

DIMENSIONED SITE PLAN

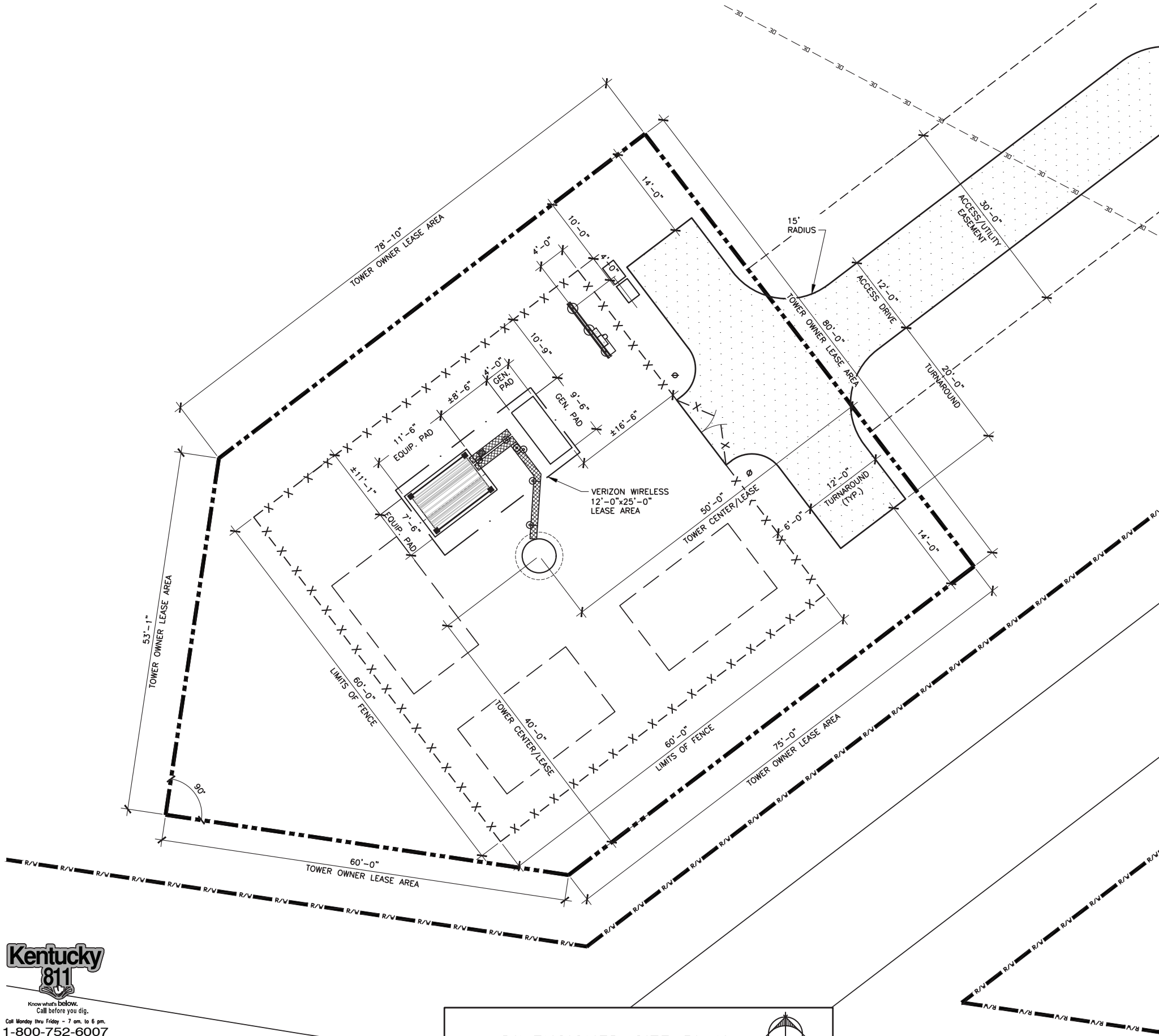
ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

C-4

MMK PAD & CANOPY REV 4.3.2 05/30/25



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.

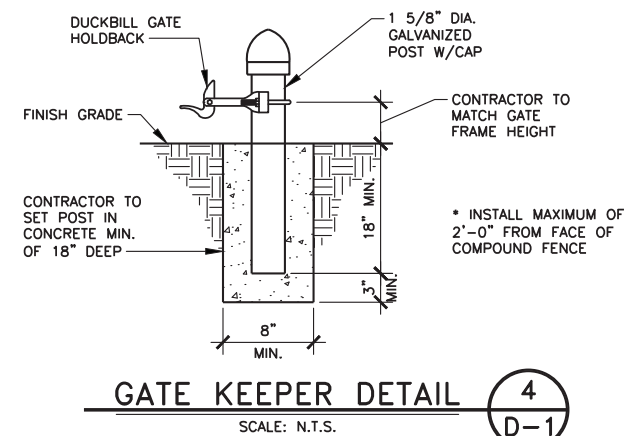
DIMENSIONED SITE PLAN

SCALE: 1/16" = 1'-0"



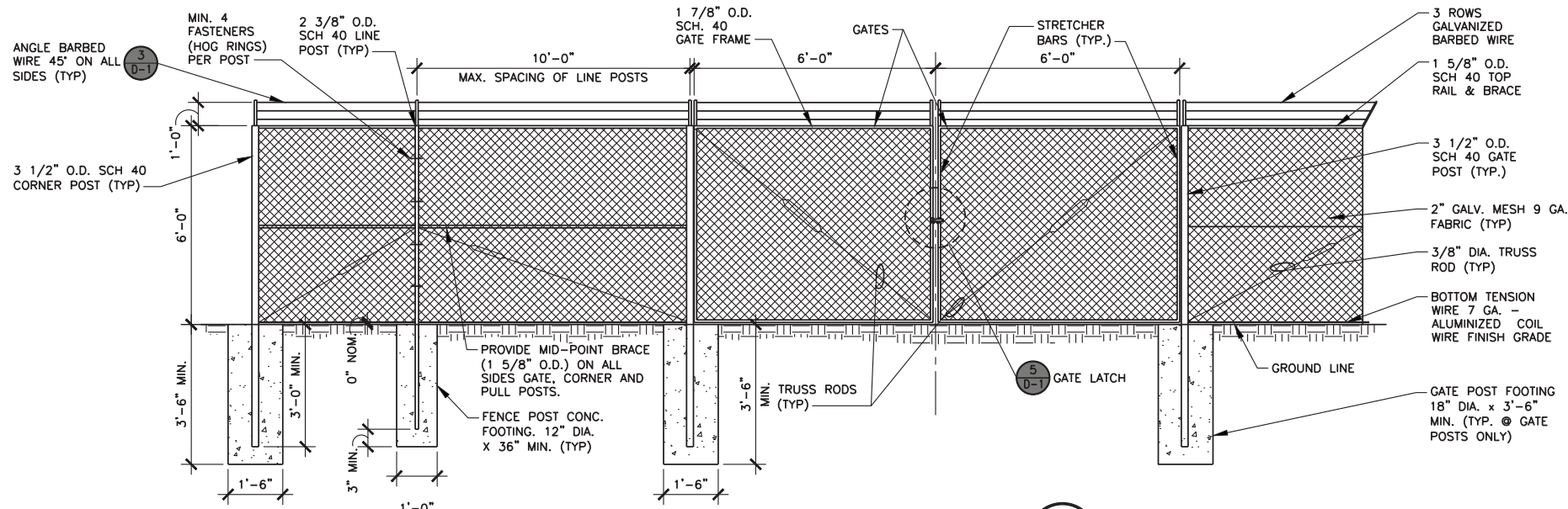
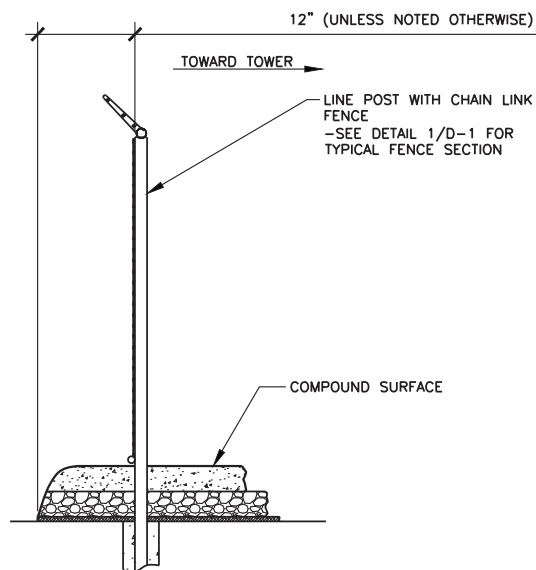
CHAIN LINK FENCING NOTES

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.



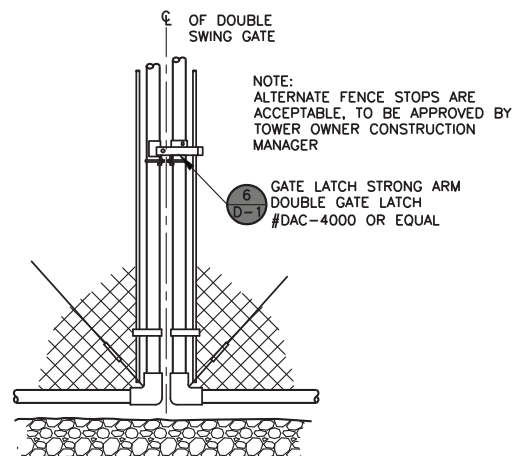
CHAIN LINK FENCE & POST DETAIL 1 D-1

SCALE: N.T.S.



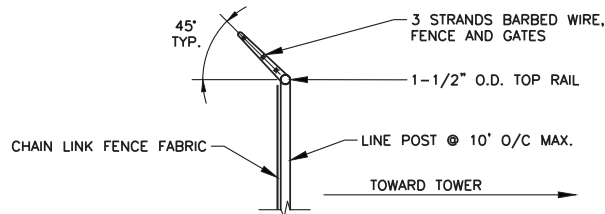
SITE AREA SURFACING 2 D-1

SCALE: N.T.S.



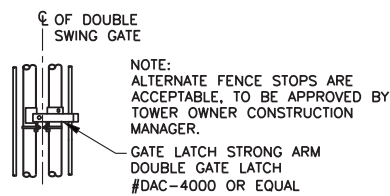
GATE LATCH DETAIL 5 D-1

SCALE: N.T.S.



TYPICAL BARBED WIRE DETAIL 3 D-1

SCALE: N.T.S.



GATE LATCH DETAIL 6 D-1

SCALE: N.T.S.

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/09/26	PRELIM CDS
1	07/26/26	ZONING ISSUE

MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

FENCE DETAILS AND NOTES

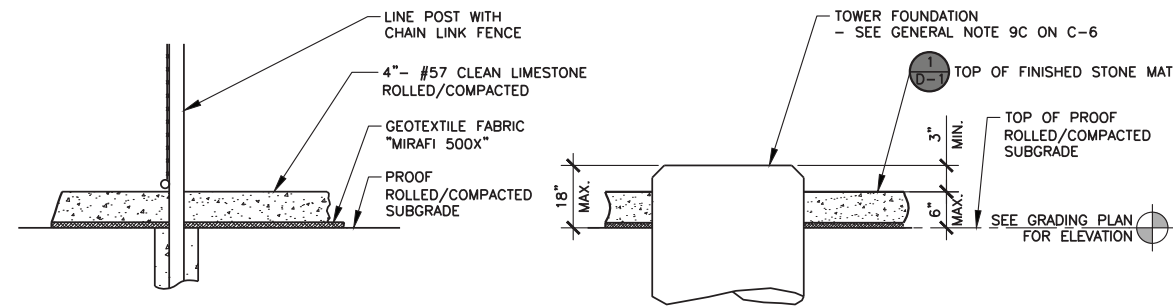
ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

D-1

MIX PAD & CANOPY REV 4.3.2 05/30/25



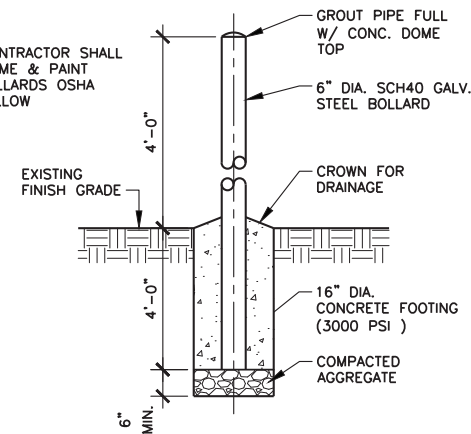
PARTIAL COMPOUND SECTION

SCALE: N.T.S.

1
D-2

NOTE:

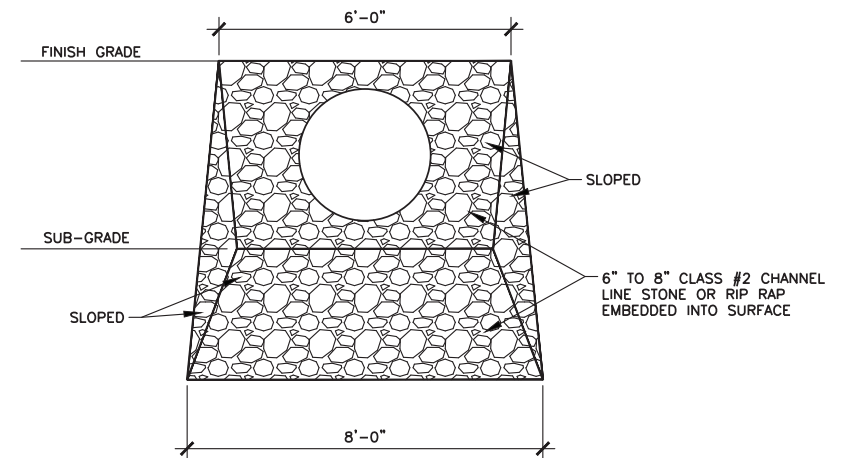
1. CONTRACTOR SHALL PRIME & PAINT BOLLARDS OSHA YELLOW



BOLLARD DETAIL

SCALE: N.T.S.

4
D-2



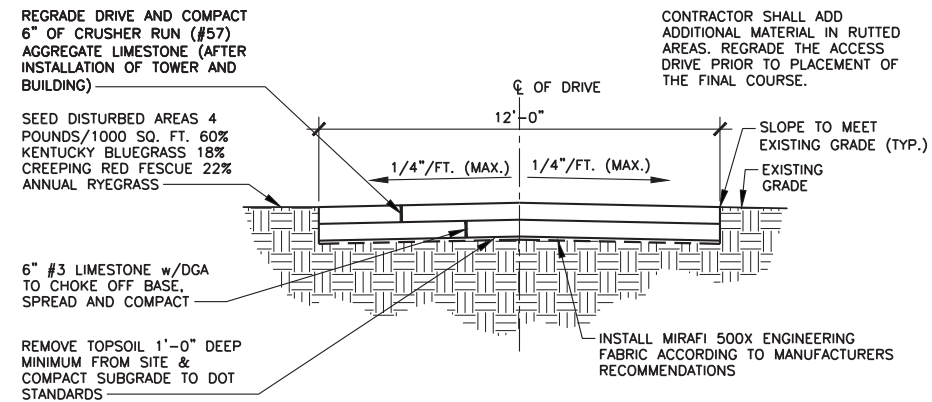
NOTES:

1. ALL ENTRANCE CULVERTS WILL MEET LOCAL DOT SPECIFICATION (WHERE APPLICABLE).
2. CROSS DRAINS SHALL BE INSTALLED ON A 45° ANGLE WITH THE FALL OF THE GRADE. (WHERE APPLICABLE).

RIPRAP DETAIL

SCALE: N.T.S.

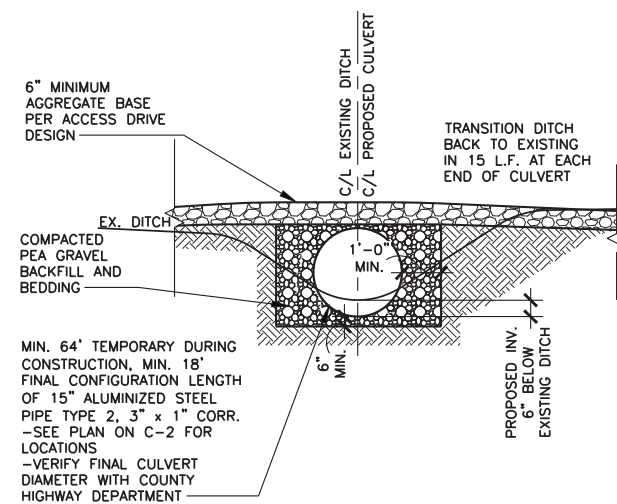
6
D-2



ACCESS DRIVE TYPICAL SECTION

SCALE: N.T.S.

2
D-2



CULVERT DETAIL

SCALE: N.T.S.

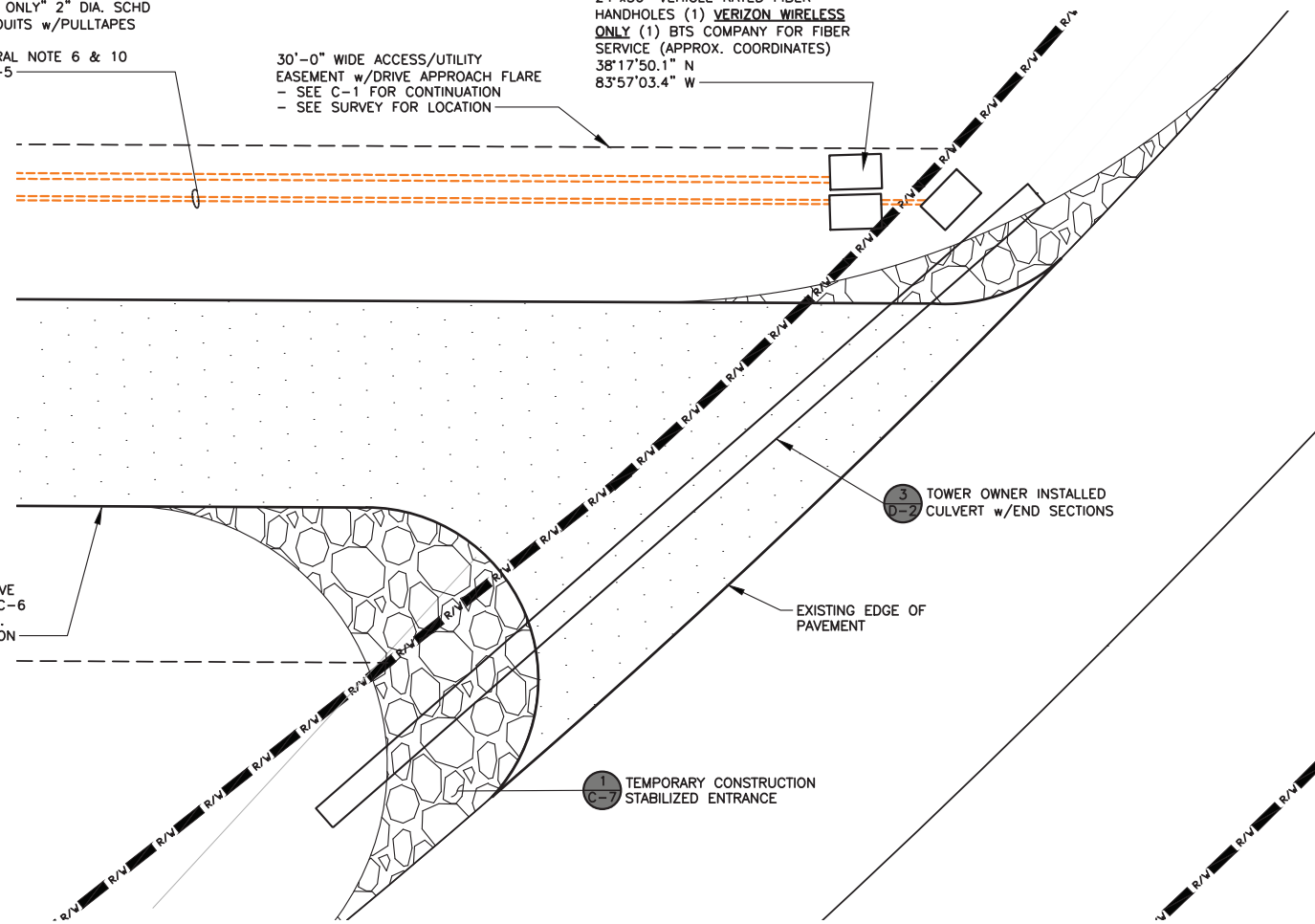
3
D-2

- (2) "VERIZON ONLY" 2" DIA. SCHD 40 PVC CONDUITS w/PULLTAPES (178 L.F.) - SEE GENERAL NOTE 6 & 10 ON SHEET C-5

- 30'-0" WIDE ACCESS/UTILITY EASEMENT w/DRIVE APPROACH FLARE - SEE C-1 FOR CONTINUATION - SEE SURVEY FOR LOCATION

- 24"x36" VEHICLE RATED FIBER HANDHOLES (1) VERIZON WIRELESS ONLY (1) BTS COMPANY FOR FIBER SERVICE (APPROX. COORDINATES) 38°17'50.1" N 83°57'03.4" W

- 12'-0" GRAVEL ACCESS DRIVE - SEE NOTE 4 ON SHEET C-6 - NEW DRIVE @ ±172 L.F. - SEE SURVEY FOR LOCATION



ENLARGED FIBER HAND HOLE PLAN AT SOURCE

SCALE: 3/32" = 1'-0"

5
D-2



Bowman

3001 TAYLOR SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 458-8402

LASHBROOK
ENGINEERING

CRESTWOOD, KENTUCKY 40014
PHONE: (270) 314-3929

HARMONITOWERS

11101 ANDERSON DR SUITE 200
LITTLE ROCK, AR 72212
PHONE: (501) 621-0521

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
B	03/04/26	ZONING ISSUE
C	06/02/26	PRELIM CDS
D	06/09/26	PRELIM CDS
E	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

SITE DETAILS

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

D-2

MMK PAD & CANOPY REV 4.3.2 05/30/25

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
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1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

EQUIPMENT PAD & CANOPY
ELEVATIONS

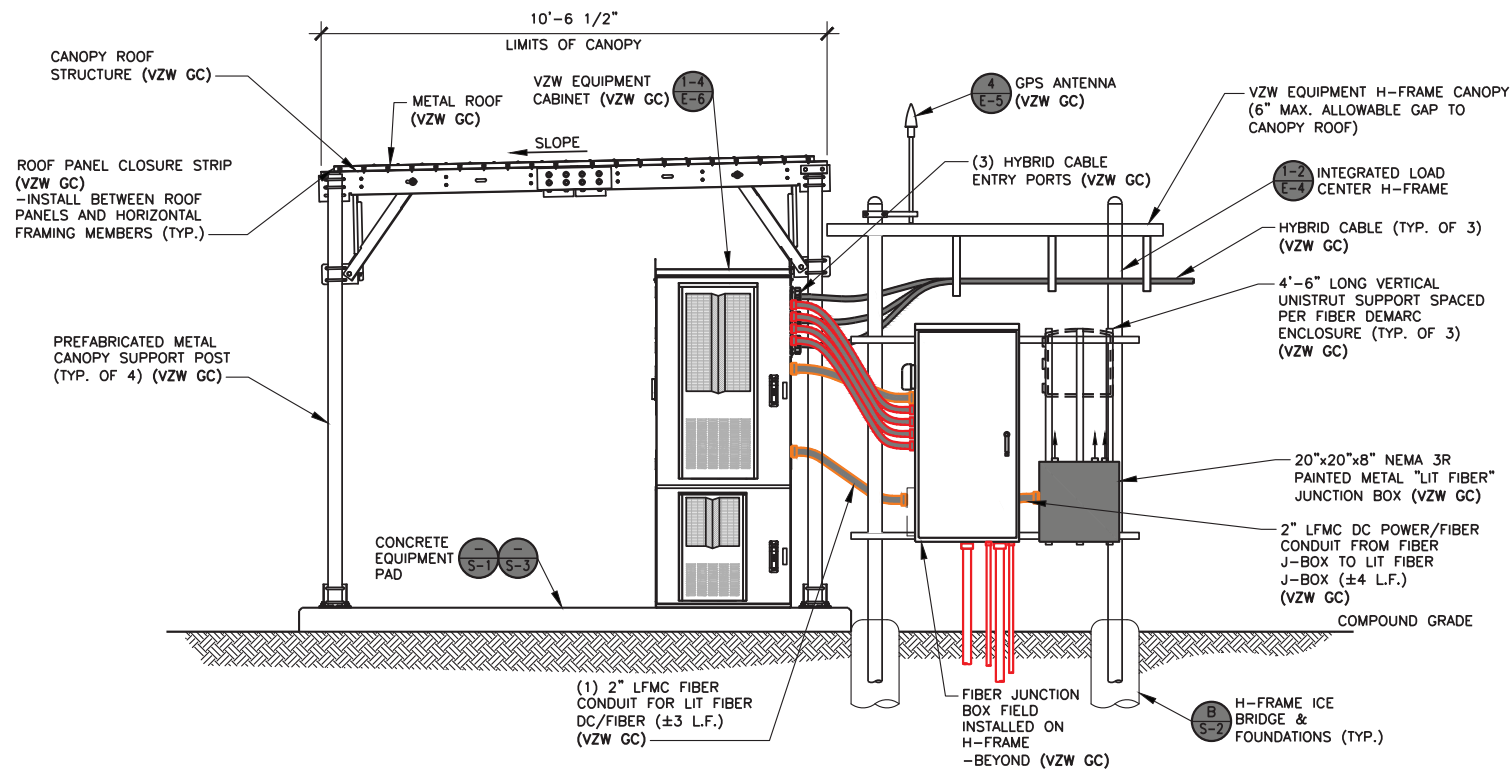
ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

D=3

ENC PAD & CANOPY REV 4.3.2 05/30/25

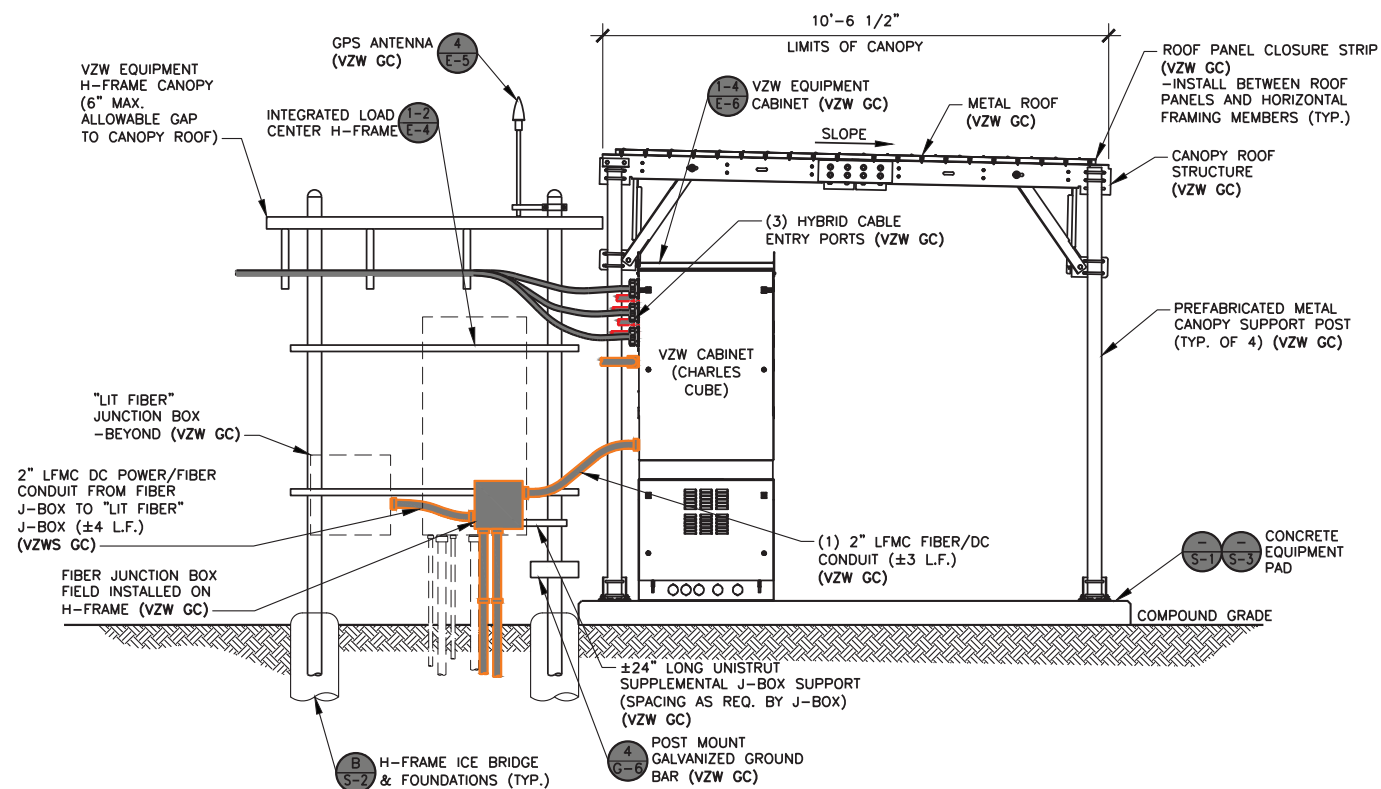


NOTE:

VERIZON WIRELESS 6'-6"x10'-6"
RADIO EQUIPMENT CANOPY
(CANOPY DWGS. SUPPLIED BY
MANUFACTURER) (VZW GC)
-COMMSCOPE P/N 860676982-001

FRONT ELEVATION

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

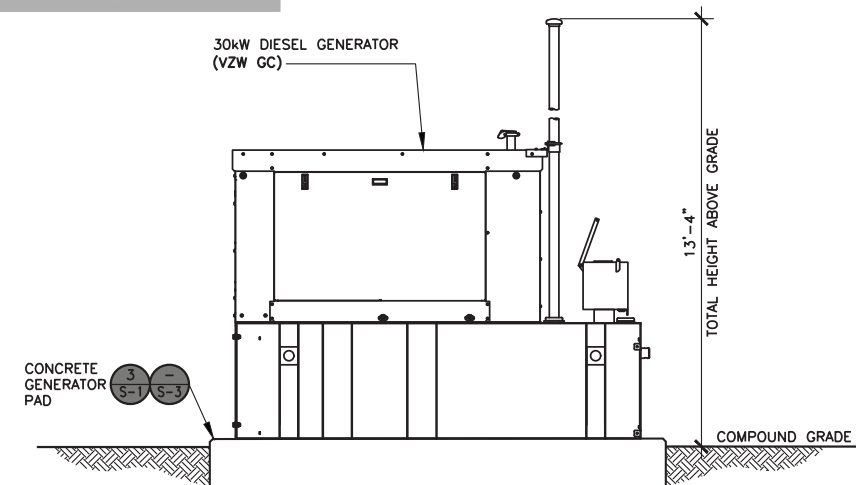


REAR ELEVATION

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

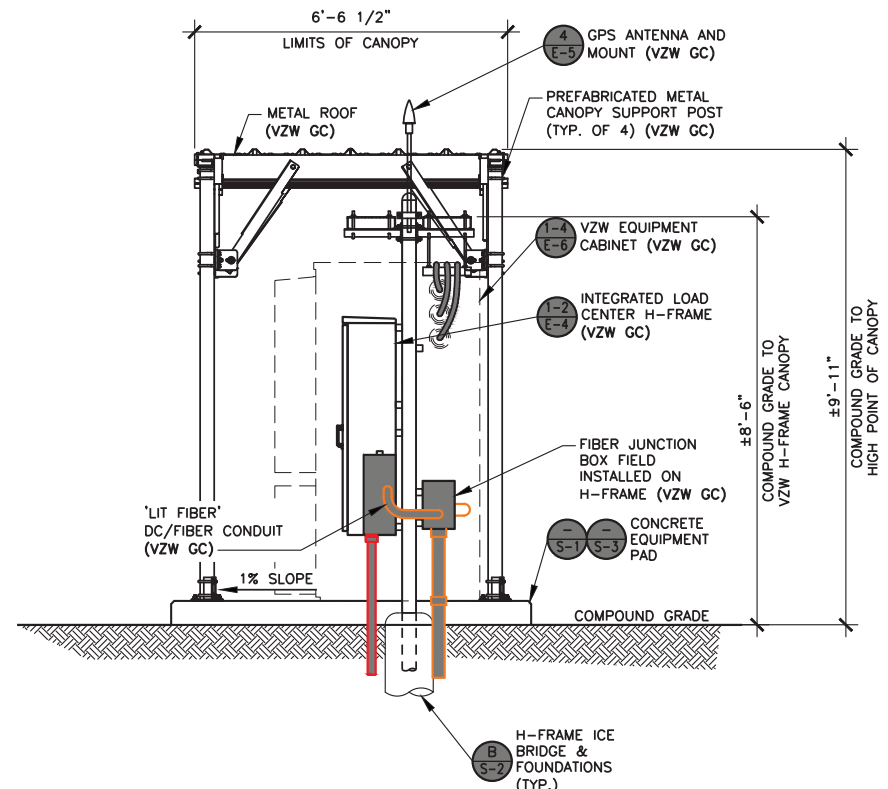
NOTE:

CANOPY ROOF PANELS PROFILE R/PBR. PROVIDE 1.7lb DENSITY POLYETHYLENE FOAM PANEL CLOSURE STRIPS TO MATCH PROFILE. AS MANUFACTURED BY: SEALTITE BUILDING FASTENERS "ST CLOSURE" STRIPS OR EQUAL (VERIFY PROFILE WITH ROOF PANELS SUPPLIED WITH CANOPY)



GENERATOR ELEVATION

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



RIGHT ELEVATION

STANDARD SITE SIGNAGE:

	REQUIRED SIGNS:	LOCATIONS:
C1	• N.O.C. "IN CASE OF EMERGENCY"	FRONT ACCESS DOOR OF CABINET (SEE FIGURE 1)
C2	• NOTICE (CONTACT INFO)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
C3	• COMBINATION WARNING (SEE NOTE 2)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
C4	• COMBINATION WARNING (SEE NOTE 2)	FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES (SEE FIGURE 1)
C5	• S.D.S.	INSIDE FRONT ACCESS DOOR OF EACH CABINET WITH BATTERIES

-N.O.C. STANDS FOR "NETWORK OPERATIONS CENTER"
-S.D.S. STANDS FOR "SAFETY DATA SHEET"

NOTES:

- CONTRACTOR SHALL INSTALL ALL SIGNS ON THE FRONT OF EACH CABINET. ALL SIGNS CAN BE PLACED ON ONLY THE UPPER DOOR, IF SPACE IS AVAILABLE.
- CONTRACTOR SHALL INSTALL SIGN C3 OR C4 BASED ON THE TYPE OF BATTERY THAT IS BEING INSTALLED.



FRONT

REAR

FIGURE 1 – EQUIPMENT CABINET SIGNAGE

SIGNAGE FOR EACH GENERATOR FUEL TYPE:

DIESEL GENERATOR

	REQUIRED SIGNS:	LOCATIONS:
D1	• "DANGER DIESEL FUEL"	INSTALL ON GENERATOR (SEE FIGURE 6)
D2	• HAZARD DIAMOND	INSTALL ON GENERATOR (SEE FIGURE 6)
D3	• NOTICE SIGN	INSTALL ON FUEL TANK
D4	• FUEL TANK CAPACITY	INSTALL ON FUEL TANK

*SIGNS D1 AND D2 MAY BE COMBINED TO A SINGLE SIGN

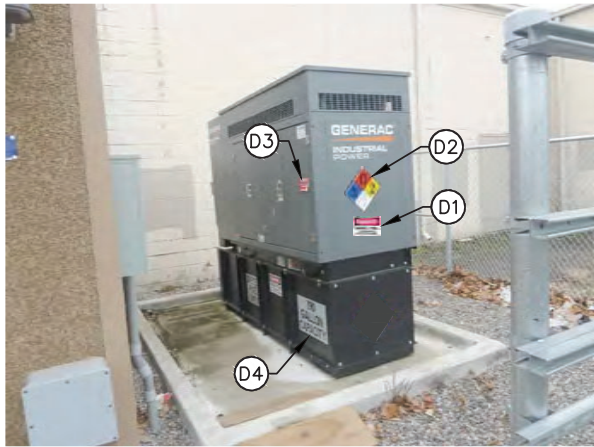


FIGURE 6 – DIESEL GENERATOR SIGNAGE

E.M.E. SIGNAGE NOTES:

VZW GC SHALL VERIFY WITH THE VERIZON CONSTRUCTION MANAGER IF ANY E.M.E. SIGNAGE (SEE FIGURE 9) IF REQUIRED. ANY REQUIRED E.M.E. SIGNAGE WILL BE INSTALLED IN ACCORDANCE WITH THE SITE SPECIFIC PRE-E.M.E. REPORT AND MOUNT AS APPROPRIATE FOR THE SIGN LOCATION.



FIGURE 9 – TYPICAL E.M.E. SIGNAGE

Bowman

3001 TAYLOR SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 458-8402

LASHBROOK
ENGINEERING

CRESTWOOD, KENTUCKY 40014
PHONE: (270) 314-3929

HARMONITOWERS

11101 ANDERSON DR SUITE 200
LITTLE ROCK, AR 72212
PHONE: (501) 621-0521

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
B	03/04/26	ZONING ISSUE
C	06/02/26	PRELIM CDS
D	06/09/26	PRELIM CDS
E	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311
VERIZON WIRELESS
SIGNAGE (REFERENCE
ONLY)

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

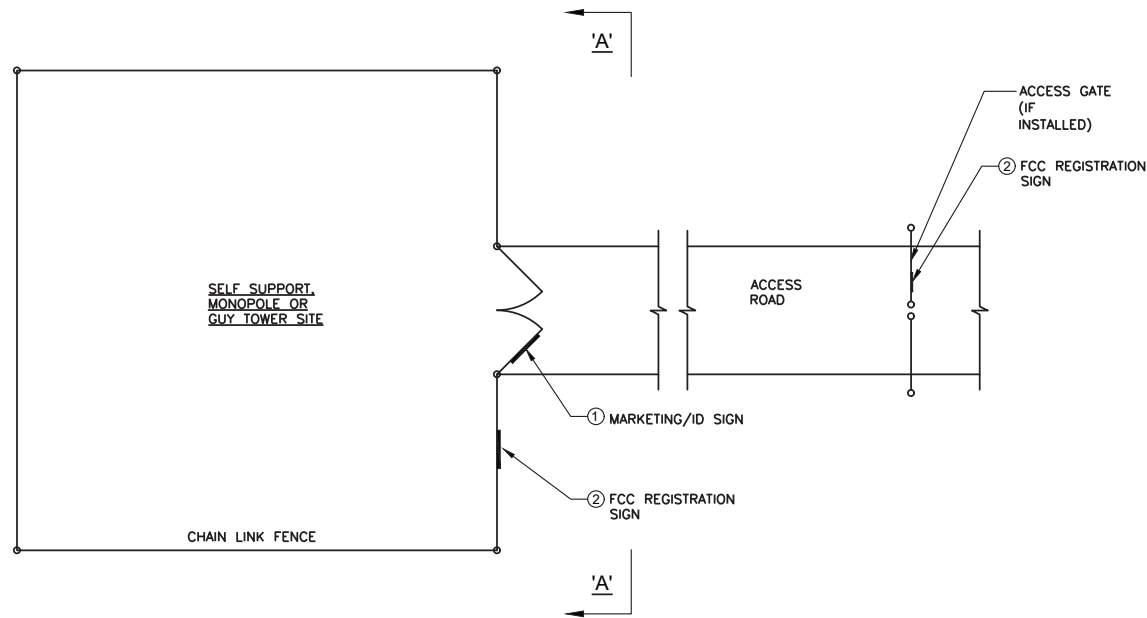
JOB NUMBER
240900-01-152 (25-151)

D-4

WIK PAD & CANOPY REV 4.3.2 05/30/25

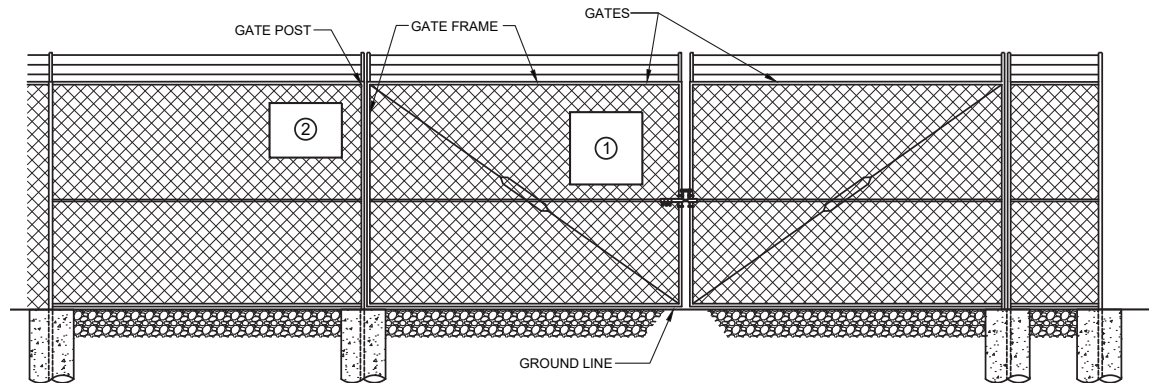
NOTES:

VERIZON WIRELESS SITE ID SIGN, RFE SIGNS, NOC INFORMATION SIGN AND ALL OTHER SIGNAGE NOT REFERENCED IN THIS DRAWING WILL BE FURNISHED AND INSTALLED BY VERIZON WIRELESS PERSONELL PER VERIZON WIRELESS RFC SIGNAGE & DEMARCATION POLICY.



TYPICAL SITE FENCE SIGNAGE PLAN

SCALE: N. T. S.



ELEVATION "A-A"

SCALE: N. T. S.

TOWER OWNER

TOWER ID

FCC REGISTRATION

TOWER LEASING OFFICE

XXX-XXX-XXXX

VISIT OUR WEBSITE
www.towerowner.com

WHITE BACKGROUND
w/BLACK LETTERING

MARKETING/ID SIGN

24" WIDE x 24" HIGH

1

**FCC ANTENNA
STRUCTURE
REGISTRATION**

WHITE BACKGROUND
w/BLACK LETTERING

FCC REGISTRATION SIGN

24" WIDE x 18" HIGH

2

Bowman

3001 TAYLOR SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 458-8402

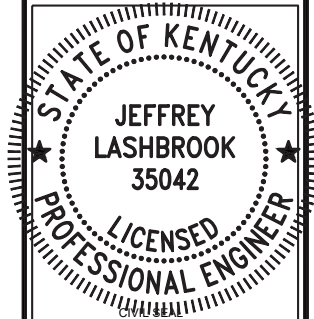
**LASHBROOK
ENGINEERING**

CRESTWOOD, KENTUCKY 40014
PHONE: (270) 314-3929

HARMONITOWERS

11101 ANDERSON DR SUITE 200
LITTLE ROCK, AR 72212
PHONE: (501) 621-0521

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/09/26	PRELIM CDS
1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

TOWER OWNER SITE FENCE
SIGNAGE (REFERENCE
ONLY)

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

D-5

MMK PAD & CANOPY REV 4.3.2 05/30/25

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/09/26	PRELIM CDS
1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

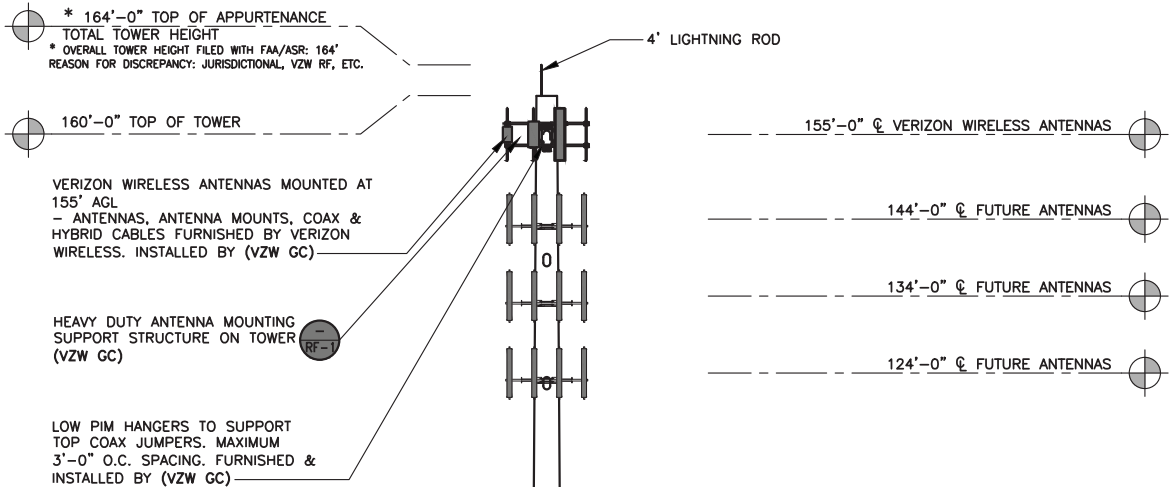
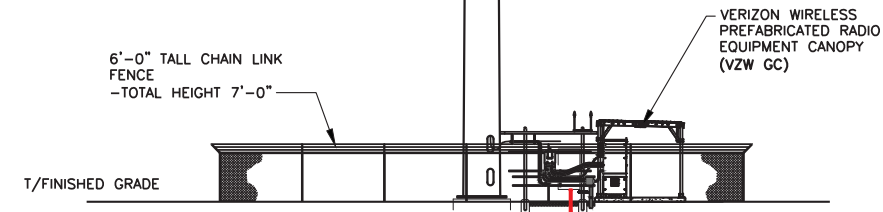
TOWER ELEVATION

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

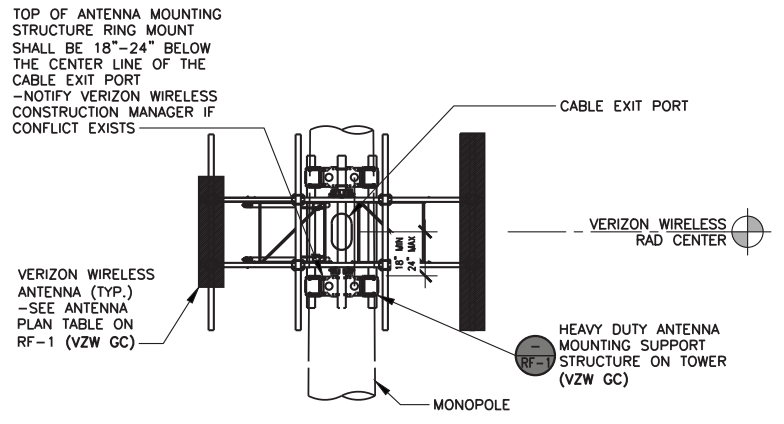
JOB NUMBER
240900-01-152 (25-151)

TE-1

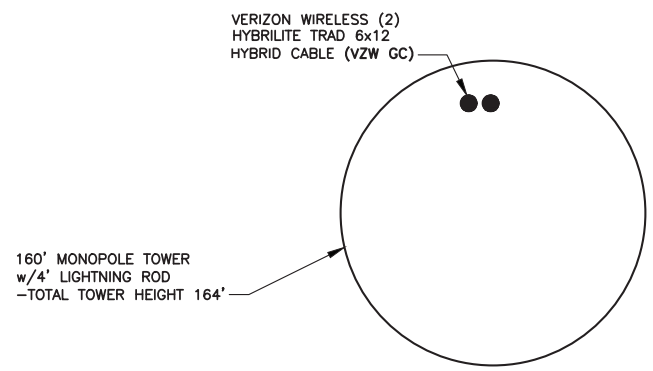


TOWER ELEVATION
SCALE: N.T.S.

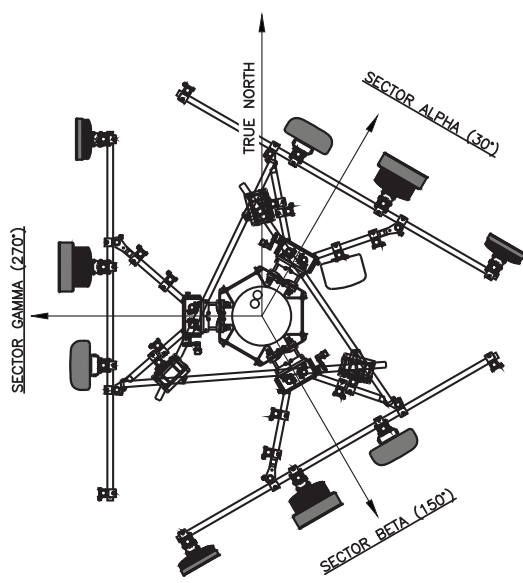
NOTE:
1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELCO PARTNERSHIP d/b/a VERIZON WIRELESS (VZW GC)



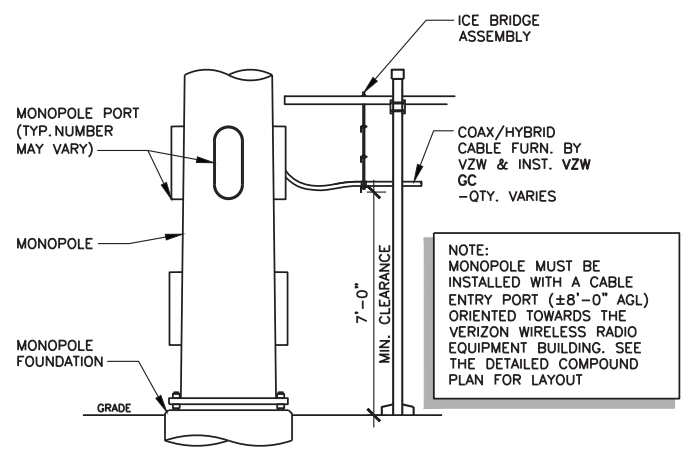
ANTENNA SUPPORT STRUCTURE INSTALLATION DETAIL
3
TE-1



COAX PLAN
SCALE: N.T.S.

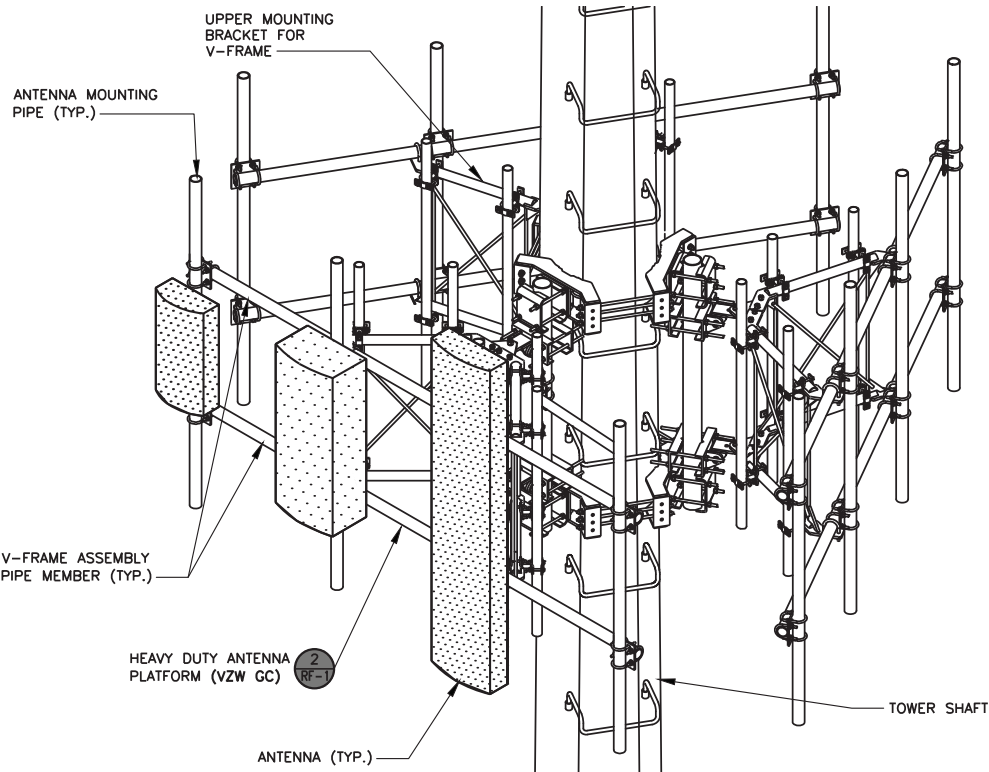


ANTENNA ORIENTATION VIEW
SCALE: N.T.S.



MONOPOLE PORT HYBRID/COAX CABLE INSTALLATION DETAIL
4
TE-1

NOTE:
VERIZON WIRELESS CABLING MUST BE INSTALLED ON THE INTERIOR OF MONOPOLE VIA THE UPPERMOST CABLE ENTRY PORT ($\pm 8'-0"$ AGL) UNLESS NOTED OTHERWISE



ANTENNA MOUNT

SCALE: N.T.S.
(BY VZW GC)

1
RF-1

ANTENNA AND HYBRID CABLES

CONTRACTOR MAY SUBSTITUTE AN ALTERNATE METHOD TO SUPPORT THE HYBRID CABLES, BUT SHALL SUBMIT DETAILING OF THE ALTERNATE METHOD TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PROCEEDING WITH THE INSTALLATION OF THE CABLES.

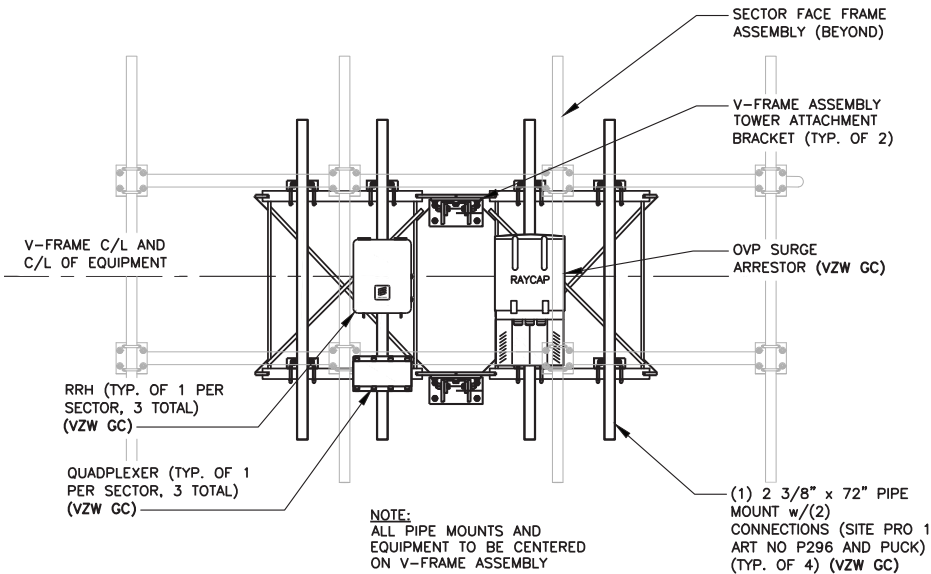
THE CONTRACTOR IS RESPONSIBLE TO REVIEW THE STRUCTURAL ANALYSIS FOR REQUIRED HYBRID CABLE SUPPORT CONFIGURATIONS NOT INDICATED ON THE DETAIL. I.E. BUNDLED CABLES.

1. THE MAXIMUM HYBRID CABLE LENGTH HAS BEEN ESTIMATED AT 187 FEET, APPROXIMATELY. ACTUAL ANTENNA CABLE LENGTH MAY VARY FROM ESTIMATED MAXIMUM LENGTH AND MUST BE VERIFIED.

HYBRID CABLE SUPPORT DETAIL

GENERAL NOTES:

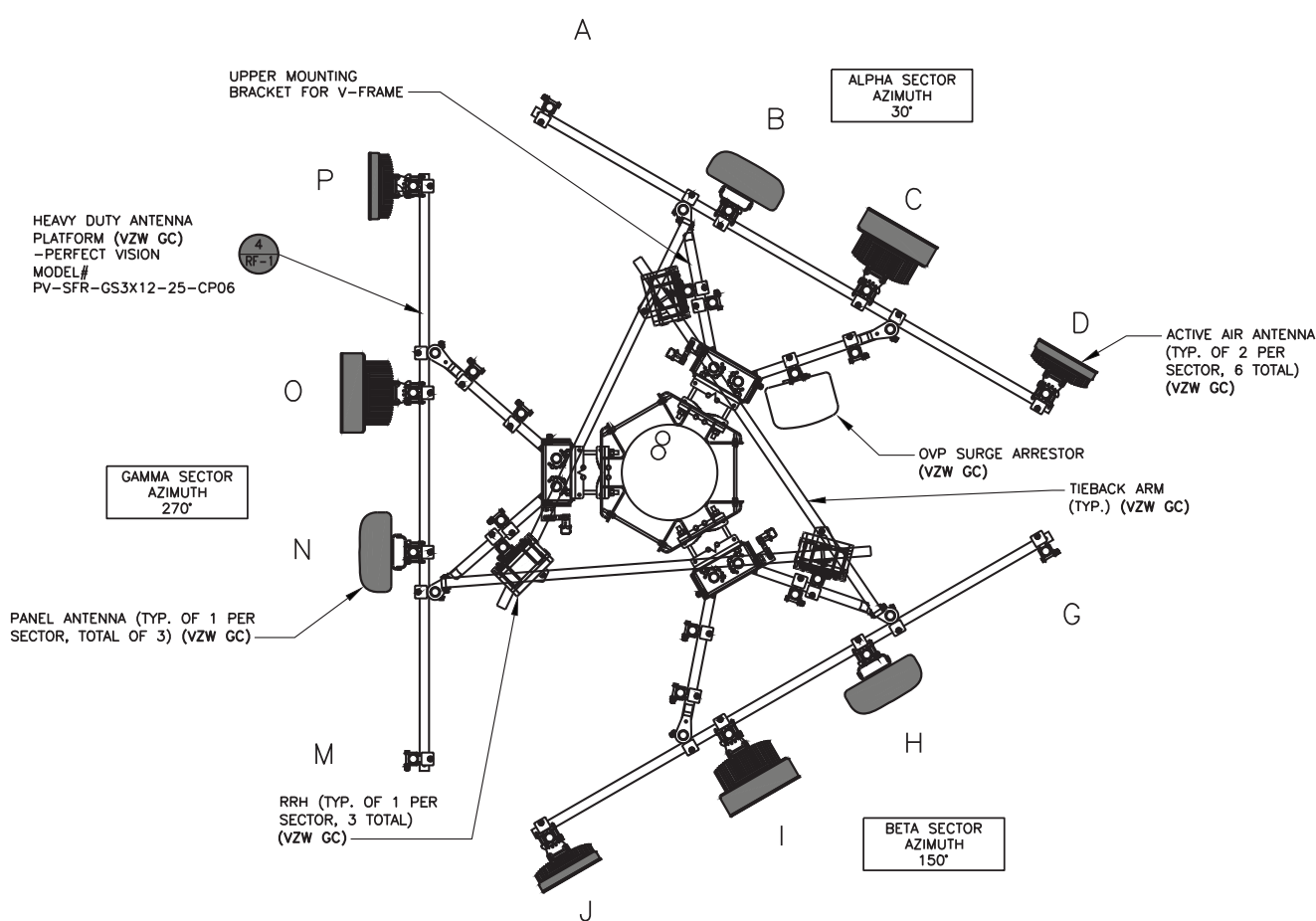
1. VERIFY EACH HYBRID CABLE LENGTH, DIAMETER, ROUTING, AND ALL MOUNTING APPURTENANCES WITH OWNER PRIOR TO ORDER.
2. TAG ALL MAIN CABLES AT TWO (2) LOCATIONS.
1) AT ANTENNAS 2) OUTSIDE EQUIPMENT CABINET NEAR THE WAVEGUIDE ENTRY PORT.
3. EACH CABLE SHALL BE GROUNDED AT (3) THREE LOCATIONS. ANTENNA LEVEL ON TOWER, TOWER BASE, AND EQUIPMENT H-FRAME.
4. HYBRID CABLES TO BE SUPPORTED EVERY 36" OFF MOUNTING FRAMES WITH LOW PIM HANGERS IN ACCORDANCE WITH ME-RFS-ST-21-001.
5. JUMPER CABLES TO BE SUPPORTED EVERY 18" WITH LOW PIM HANGERS IN ACCORDANCE WITH ME-RFS-ST-21-001.



ANTENNA MOUNT - REAR VIEW (FLATTENED)

SCALE: N.T.S.
(BY VZW GC)

3
RF-1

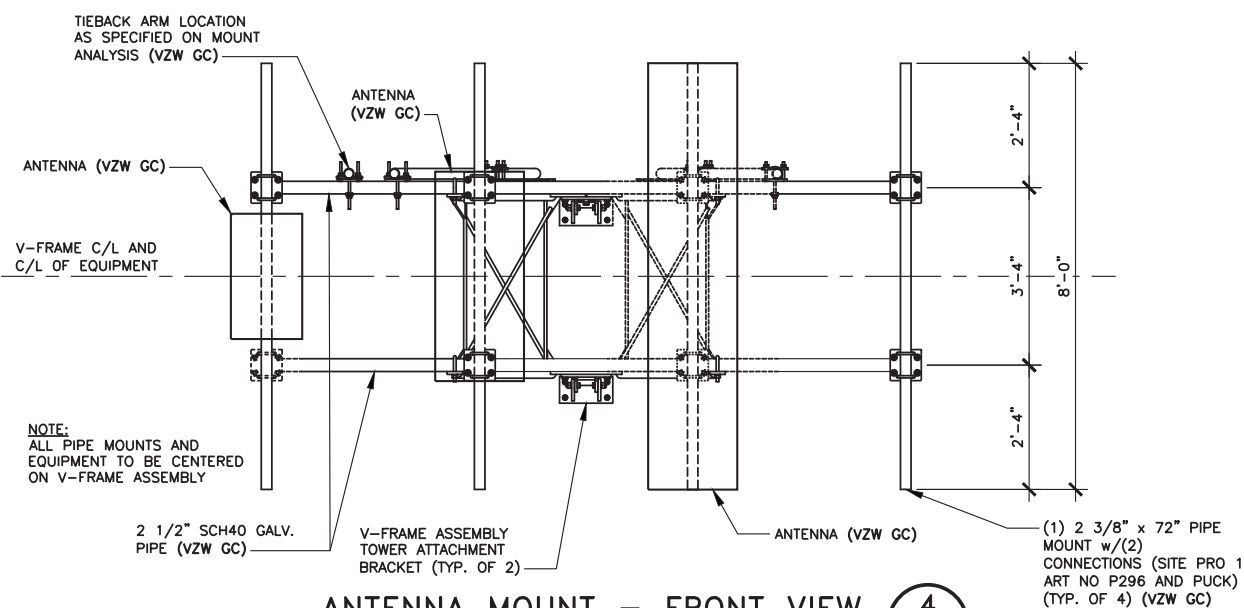


ANTENNA LAYOUT - PLAN VIEW

SCALE: N.T.S.
(BY VZW GC)

2
RF-1

NOTE:
FINAL ANTENNA LEVEL PLAN AND PASSING MOUNT ANALYSIS MUST MATCH. NOTIFY VZW CONSTRUCTION MANAGER IF DISCREPANCY EXISTS.



ANTENNA MOUNT - FRONT VIEW

SCALE: N.T.S.
(BY VZW GC)

4
RF-1

Bowman

3001 TAYLOR SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 458-8402

LASHBROOK
ENGINEERING

CRESTWOOD, KENTUCKY 40014
PHONE: (270) 314-3929

HARMONITOWERS

11101 ANDERSON DR SUITE 200
LITTLE ROCK, AR 72212
PHONE: (501) 621-0521

REV	DATE	DESCRIPTION
A	11/19/25	LEASE EXHIBIT
0	03/04/26	ZONING ISSUE
B	06/02/26	PRELIM CDS
C	06/08/26	PRELIM CDS
1	07/26/26	ZONING ISSUE



MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

ANTENNA PLAN AND
DETAILS (REFERENCE ONLY)

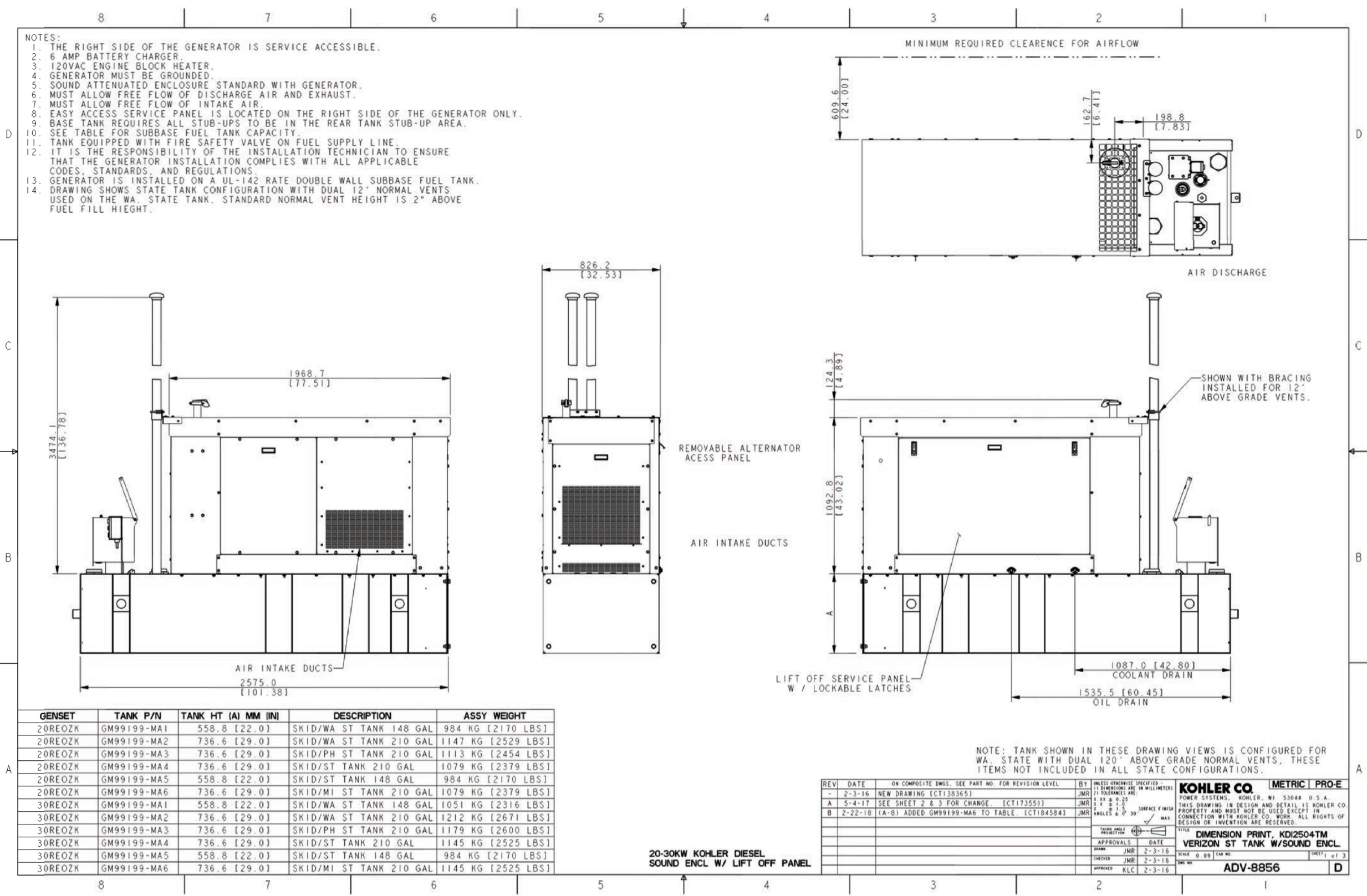
ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

RF-1

MMK PAD & CANOPY REV 4.3.2 05/30/25



- NOTES:
1. THE RIGHT SIDE OF THE GENERATOR IS SERVICE ACCESSIBLE.
 2. 6 AMP BATTERY CHARGER.
 3. 120VAC ENGINE BLOCK HEATER.
 4. GENERATOR MUST BE GROUNDED.
 5. SOUND ATTENUATED ENCLOSURE STANDARD WITH GENERATOR.
 6. MUST ALLOW FREE FLOW OF DISCHARGE AIR AND EXHAUST.
 7. MUST ALLOW FREE FLOW OF INTAKE AIR.
 8. EASY ACCESS SERVICE PANEL IS LOCATED ON THE RIGHT SIDE OF THE GENERATOR ONLY.
 9. BASE TANK REQUIRES ALL STUB-UPS TO BE IN THE REAR TANK STUB-UP AREA.
 10. SEE TABLE FOR SUBBASE FUEL TANK CAPACITY.
 11. TANK EQUIPPED WITH FIRE SAFETY VALVE ON FUEL SUPPLY LINE.
 12. IT IS THE RESPONSIBILITY OF THE INSTALLATION TECHNICIAN TO ENSURE THAT THE GENERATOR INSTALLATION COMPLIES WITH ALL APPLICABLE CODES, STANDARDS, AND REGULATIONS.
 13. GENERATOR IS INSTALLED ON A UL-142 RATE DOUBLE WALL SUBBASE FUEL TANK.
 14. DRAWING SHOWS STATE TANK CONFIGURATION WITH DUAL 12' NORMAL VENTS USED ON THE WA, STATE TANK. STANDARD NORMAL VENT HEIGHT IS 2" ABOVE FUEL FILL HEIGHT.

GENSET	TANK P/N	TANK HT (A) MM (IN)	DESCRIPTION	ASSY WEIGHT
20REOZK	GM99199-MA1	558.8 [22.0]	SKID/WA ST TANK 148 GAL	984 KG [2170 LBS]
20REOZK	GM99199-MA2	736.6 [29.0]	SKID/WA ST TANK 210 GAL	1147 KG [2529 LBS]
20REOZK	GM99199-MA3	736.6 [29.0]	SKID/PH ST TANK 210 GAL	1113 KG [2454 LBS]
20REOZK	GM99199-MA4	736.6 [29.0]	SKID/ST TANK 210 GAL	1079 KG [2379 LBS]
20REOZK	GM99199-MA5	558.8 [22.0]	SKID/ST TANK 148 GAL	984 KG [2170 LBS]
20REOZK	GM99199-MA6	736.6 [29.0]	SKID/MI ST TANK 210 GAL	1079 KG [2379 LBS]
30REOZK	GM99199-MA1	558.8 [22.0]	SKID/WA ST TANK 148 GAL	1051 KG [2316 LBS]
30REOZK	GM99199-MA2	736.6 [29.0]	SKID/WA ST TANK 210 GAL	1212 KG [2671 LBS]
30REOZK	GM99199-MA3	736.6 [29.0]	SKID/PH ST TANK 210 GAL	1179 KG [2600 LBS]
30REOZK	GM99199-MA4	736.6 [29.0]	SKID/ST TANK 210 GAL	1145 KG [2525 LBS]
30REOZK	GM99199-MA5	558.8 [22.0]	SKID/ST TANK 148 GAL	984 KG [2170 LBS]
30REOZK	GM99199-MA6	736.6 [29.0]	SKID/MI ST TANK 210 GAL	1145 KG [2525 LBS]

REV	DATE	ON COMPOSITE DWGS. SEE PART NO. FOR REVISION LEVEL	BY	UNLESS OTHERWISE SPECIFIED - 1) DIMENSIONS ARE IN MILLIMETERS 2) TOLERANCES ARE:
-	2-3-16	NEW DRAWING [CT138365]	JMR	± .00
A	5-4-17	SEE SHEET 2 & 3 FOR CHANGE [CT173559]	JMR	± .00
B	2-22-18	(A-B) ADDED GM99199-MA6 TO TABLE. [CT184584]	JMR	± .00
SURFACE FINISH: MAX. ANGLES: 0°-30°				
TWO-ANGLE PROJECTION				
APPROVALS: DATE: 2-3-16				
CHECKED: JMR 2-3-16				
APPROVED: RLC 2-3-16				
KOHLER CO. METRIC PRO-E POWER SYSTEMS, KOHLER, WI 53044 U.S.A. THIS DRAWING IN DESIGN AND DETAIL IS KOHLER CO. PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH KOHLER CO. WORK. ALL RIGHTS OF DESIGN OR INVENTION ARE RESERVED.				
TITLE: DIMENSION PRINT, KD12504TM VERIZON ST TANK W/SOUND ENCL.				
SCALE: 0.09 (CAD NO.) SHEET: 1 of 3				
ADV-8856 D				

Bowman
3001 TAYLOR SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 458-8402

LASHBROOK
ENGINEERING
CRESTWOOD, KENTUCKY 40014
PHONE: (270) 314-3929

HARMONITOWERS
11101 ANDERSON DR SUITE 200
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1	07/26/26	ZONING ISSUE

STATE OF KENTUCKY
JEFFREY LASHBROOK
35042
LICENSED PROFESSIONAL ENGINEER

MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311
GENERATOR SPECS

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-
PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

REF-1
MK PAD & CANOPY REV 4.32 05/30/25



LEASE AREA VIEW (LOOKING SOUTH)

1

LEASE AREA VIEW (LOOKING WEST)

2

LEASE AREA VIEW (LOOKING NORTH)

3



SITE ACCESS/UTILITY ROUTE (LOOKING NORTH)

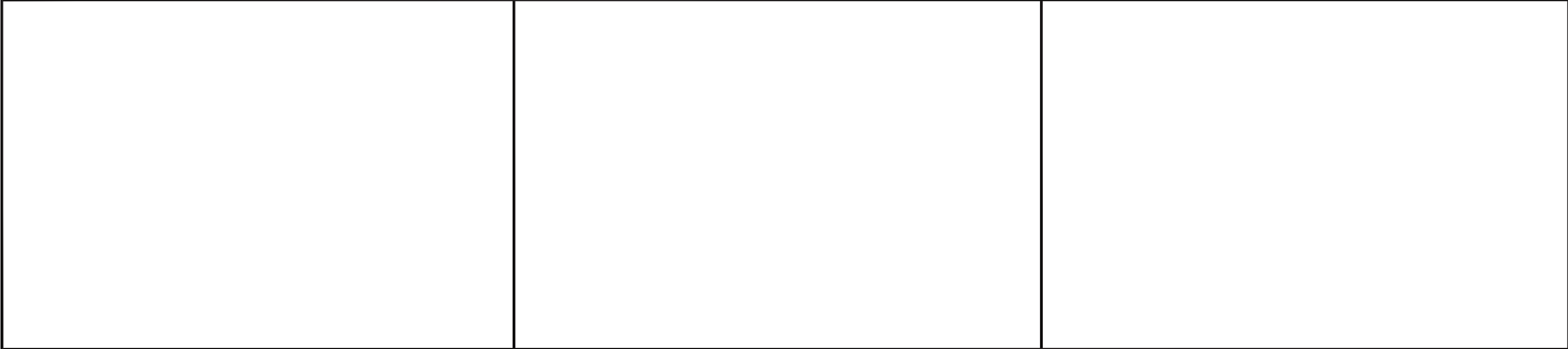
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SITE ACCESS/UTILITY ROUTE (LOOKING SOUTH)

5

ELECTRIC MEET POINT (LOOKING

6



FIBER MEET POINT (LOOKING

7

UNIQUE SITE CHARACTERISTIC VIEW ()

8

UNIQUE SITE CHARACTERISTIC VIEW ()

9

Bowman
3001 TAYLOR SPRINGS DRIVE
LOUISVILLE, KENTUCKY 40220
PHONE: (502) 458-8402

LASHBROOK
ENGINEERING
CRESTWOOD, KENTUCKY 40014
PHONE: (270) 314-3929

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STATE OF KENTUCKY

JEFFREY LASHBROOK
35042

PROFESSIONAL ENGINEER

MOOREFIELD RD
CANE RUN RD
CARLISLE, KY 40311

SITE PHOTO LOG
(REFERENCE ONLY)

ISSUED FOR:	
REVIEW	-
PERMIT	-
CONSTRUCTION	-
RECORD	-

PROJECT MANAGER	DESIGNER
JTL	JTL

JOB NUMBER
240900-01-152 (25-151)

PL-1

INK PAD & CANOPY REV 4.3.2 05/30/25

EXHIBIT C

CONSTRUCTION MANAGER LETTER LIST OF QUALIFIED PROFESSIONALS TOWER AND FOUNDATION DESIGN

May 13, 2026

Nicholas County
125 E. Main Street
Princeton, KY 42445

RE:
Site Name – KY0007119 Moorefield Road
Proposed Cell Tower
38.29704722 North Latitude, 83.9515222 West Longitude

Dear Commissioners:

The Construction Manager for the proposed new communications facility will be Josh Supak. His contact information is (681)285-5620 or josh.supak@theipakcompanyllc.com.

Josh has been in the industry completing civil construction and constructing towers for decades. He has worked on various tower build projects for Harmoni Towers.

Thank you.

HARMONI TOWERS DEVELOPMENT COMPANY LLC

Jacqueline Brown
Site Development
Director-Project Management

LV Moorefield Road – List of Qualified Professionals

Jeffrey Lashbrook
Licensed Professional Engineer, License No. 35042
Professional Engineer
Bowman Consulting
3001 Taylor Springs Drive
Louisville, KY 40220

Frank V. Neeley
Licensed Professional Land Surveyor, License No. 3093
Professional Land Surveyor
Sharondale Surveying Inc.
161 Martin Road
Bon Aqua, TN 37025

Josh Supak
Construction Manager
Harmoni Towers
11101 Anderson Drive, Suite 200
Little Rock, AR 72212

Jordan W. Shelley
Licensed Professional Engineer, License No. 33156
Professional Engineer
Sabre Industries
7101 Southbridge Drive
Sioux City, IA 5112

Raphael Mohamed
Licensed Professional Engineer, License No. 24429
Professional Engineer
Engineered Tower Solutions, PLLC
3227 Wellington Court
Raleigh, NC 27615

LV Moorefield Road – List of Qualified Professionals

Matt Nesbit

Geotechnical Engineer II

Engineered Tower Solutions, PLLC

3227 Wellington Court

Raleigh, NC 27615

Jorge Varela

Senior Geotechnical Engineer

Engineered Tower Solutions, PLLC

3227 Wellington Court

Raleigh, NC 27615

Gordon Snyder

Sr. RF Engineer

Verizon Wireless

2421 Holloway Road

Louisville, KY 40299



Structural Design Report

160' Monopole

Site: MOOREFIELD ROAD, KY

Site Number: KY0007119

Prepared for: HARMONI TOWERS

by: Sabre IndustriesTM

Job Number: 27-1531-RRM

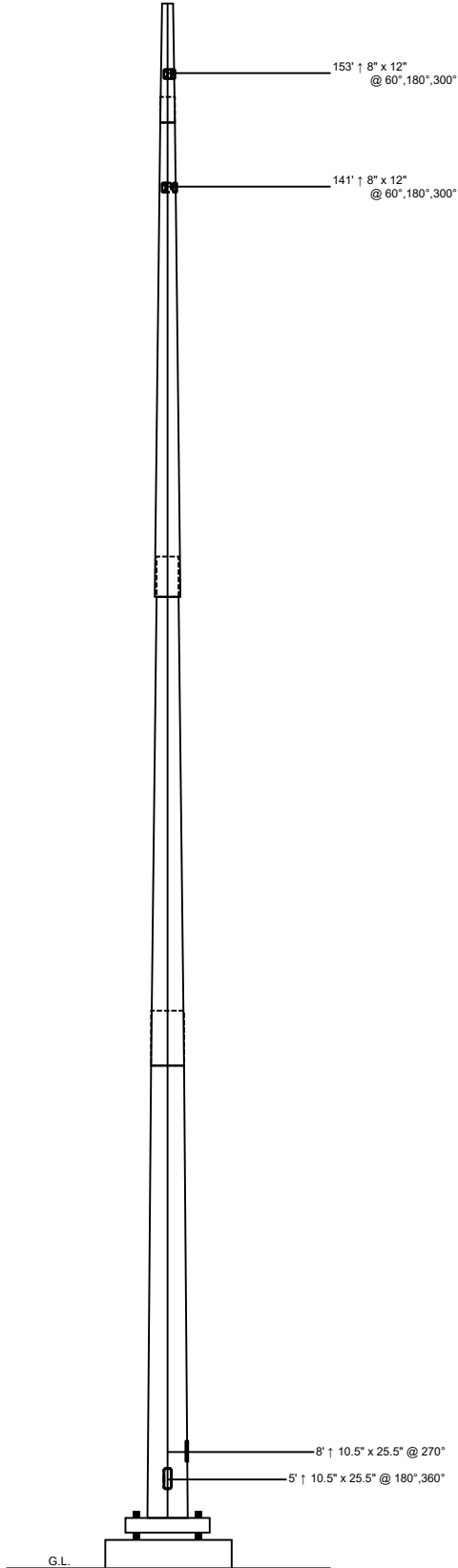
October 23, 2026

Monopole Profile.....	1
Foundation Design Summary (Option 1).....	2
Foundation Design Summary (Option 2).....	3
Pole Calculations.....	4-21
Foundation Calculations.....	22-32



10/26/2026

Length (ft)	53'-3"	53'-6"	52'-6"	12'-6"
Number Of Sides	18			
Thickness (in)	3/8"		5/16"	1/4"
Lap Splice (ft)	5' - 9"	4' - 3"		A
Top Diameter (in)	39.77"	28.94"	17.86"	16"
Bottom Diameter (in)	52.66"	41.91"	30.6"	19.03"
Taper (in/ft)				
Grade		0.2425		
Weight (lbs)	11896	8065	4605	722
Overall Steel Height (ft)		159		



Designed Appurtenance Loading

Elev	Description	Tx-Line
155	(1) 40,000 Sq. In. EPA 6000# (no ice)	(15) 1 5/8"
143	(1) 30,000 sq. in. EPA 4000# (no ice)	(15) 1 5/8"

Design Criteria - ANSI/TIA-222-H

Wind Speed (No Ice)	106 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Risk Category	II
Exposure Category	C
Topographic Factor Procedure	Method 2 (Rigorous)
Topographic Feature	Hill
Crest Height	106 ft
Length of Topographic Feature	267 ft
Horizontal Distance from Structure to Crest	73 ft
Ground Elevation	1005 ft
Seismic Importance Factor, I _e	1.00
0.2-sec Spectral Response, S _s	0.189 g
1-sec Spectral Response, S ₁	0.081 g
Site Class	D
Seismic Design Category	B
Basic Seismic Force-Resisting System	Telecommunication Tower (Pole: Steel)

Limit State Load Combination Reactions

Load Combination	Axial (kips)	Shear (kips)	Moment (ft-k)	Deflection (ft)	Sway (deg)
1.2 D + 1.0 W _o	44.65	33.27	4171.26	16.01	11.82
0.9 D + 1.0 W _o	33.5	33.32	4081.53	15.55	11.43
1.2 D + 1.0 D _i + 1.0 W _i	74.67	4.98	672.7	2.76	2.02
1.2 D + 1.0 E _v + 1.0 E _h	45.99	1.11	166.42	0.69	0.5
0.9 D - 1.0 E _v + 1.0 E _h	31.87	1.12	162.64	0.66	0.48
1.0 D + 1.0 W _o (Service @ 60 mph)	37.14	9.54	1193.77	4.72	3.42

Base Plate Dimensions

Shape	Diameter	Thickness	Bolt Circle	Bolt Qty	Bolt Diameter
Round	65"	2"	59.25"	16	2.25"

Anchor Bolt Dimensions

Length	Diameter	Hole Diameter	Weight	Type	Finish
84"	2.25"	2.625"	1937.6	A615-75	Galv

Material List

Display	Value
A	2' - 9"

Notes

- 1) Antenna Feed Lines Run Inside Pole
- 2) All dimensions are above ground level, unless otherwise specified.
- 3) Weights shown are estimates. Final weights may vary.
- 4) Full Height Step Bolts
- 5) Tower Rating: 95.4%

TEP OPCO, LLC

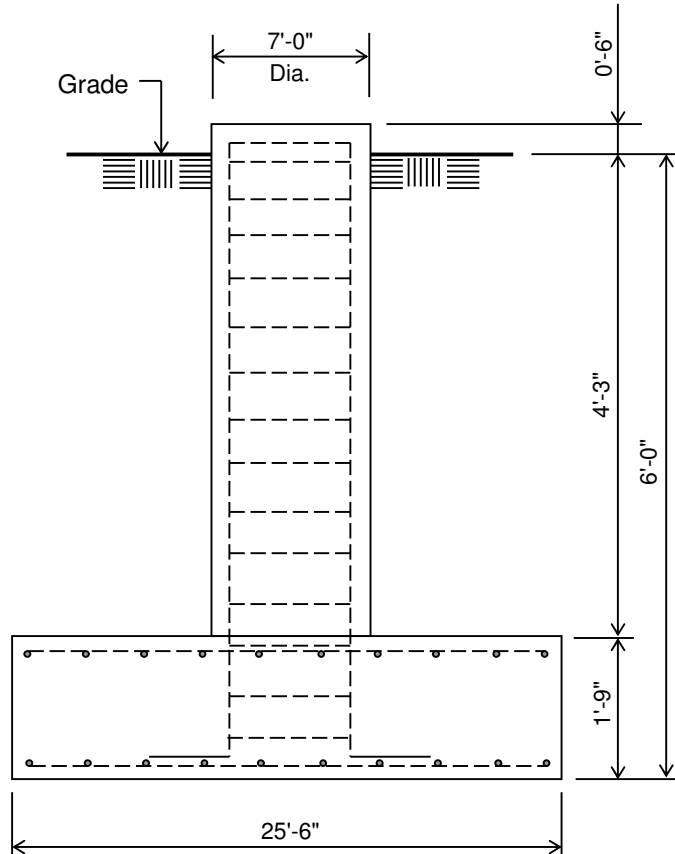
4034



10/26/2026

 <p>Sabre Industries 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 258-6690 Fax: (712) 279-0814</p> <p><small>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Communications Corporation.</small></p>	Job:	27-1531-RRM
	Customer:	HARMONI TOWERS
	Site Name:	MOOREFIELD ROAD, KY KY0007119
	Description:	160' Monopole
	Date:	10/23/2026 By: RM

Customer: HARMONI TOWERS
Site: MOOREFIELD ROAD, KY KY0007119
 160' Monopole



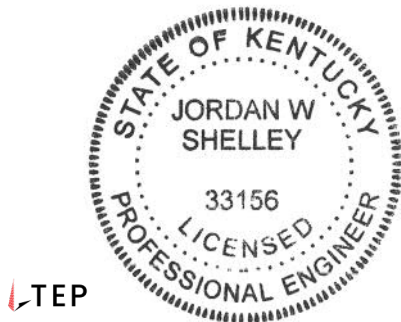
ELEVATION VIEW

(48.92 Cu. Yds.)

(1 REQUIRED; NOT TO SCALE)

TEP OPCO, LLC

4034



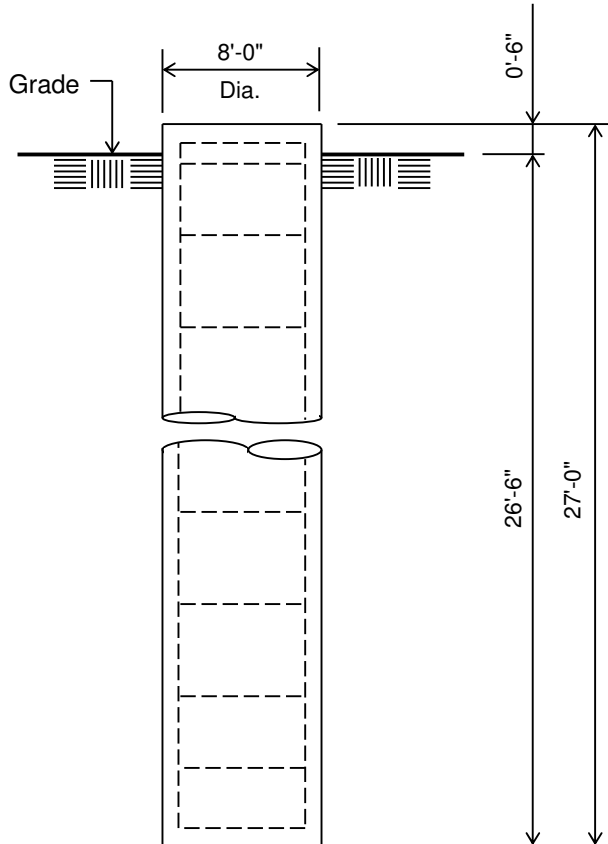
Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-14.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by Engineered Tower Solutions, Project Number: 26148997, Dated.09/17/2026.
- 6) See the geotechnical report for compaction requirements, if specified.
- 7) 4.25 ft of soil cover is required over the entire area of the foundation slab.
- 8) This foundation is designed for a max capacity ratio of 90%.
- 9) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule for Pad and Pier

Rebar Schedule for Pad and Pier	
Pier	(38) #8 vertical rebar w/ hooks at bottom w/ #5 ties, (2) within top 5" of pier, then 4" C/C
Pad	(34) #10 horizontal rebar evenly spaced each way top and bottom (136 total)

Customer: HARMONI TOWERS
Site: MOOREFIELD ROAD, KY KY0007119
 160' Monopole



ELEVATION VIEW

(50.27 Cu. Yds.)

(1 REQUIRED; NOT TO SCALE)

TEP OPCO, LLC

4034



TEP

10/26/2026

Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-14.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by Engineered Tower Solutions, Project Number: 26148997, Dated.09/17/2026.
- 6) See the geotechnical report for drilled pier installation requirements, if specified.
- 7) This foundation is designed for a max capacity ratio of 90%.
- 8) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule for Pier

Pier	(54) #10 vertical rebar w/ #5 ties, (2) within top 5" of pier, then 7" C/C
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(USA 222-H) - Monopole Spatial Analysis (c)2017 Guymast Inc.

Tel:(416)736-7453 Fax:(416)736-4372 Web:www.guymast.com

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Sabre Towers and Poles on: 23 oct 2026 at: 13:52:41

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160' Monopole / MOOREFIELD ROAD, KY

* All pole diameters shown on the following pages are across corners.
See profile drawing for widths across flats.

POLE GEOMETRY

=====

ELEV	SECTION	No.	OUTSIDE	THICK	RESISTANCES	SPLICE	...OVERLAP...	w/t
ft	NAME	SIDE	DIAM	-NESS	*Pn *Mn	TYPE	LENGTH	RATIO
			in	in	kip ft-kip		ft	
159.0								
	A	18	16.25	0.250	928.5 298.5			10.1
			18.64	0.250	1067.4 395.3			
149.2								
	A/B	18	18.64	0.250	1067.4 395.3	SLIP	2.75	1.78
			18.83	0.312	1343.1 499.1			
146.5								
	B	18	18.83	0.312	1343.1 499.1			9.4
			30.01	0.312	2154.9 1292.6			
101.0								
	B/C	18	30.01	0.312	2154.9 1292.6	SLIP	4.25	1.70
			30.44	0.375	2618.0 1586.8			
96.7								
	C	18	30.44	0.375	2618.0 1586.8			13.2
			41.13	0.375	3443.7 2838.7			
53.2								
	C/D	18	41.13	0.375	3443.7 2838.7	SLIP	5.75	1.68
			41.81	0.375	3484.8 2920.7			
47.5								
	D	18	41.81	0.375	3484.8 2920.7			18.4
			53.49	0.375	4111.1 4426.2			
0.0								

POLE ASSEMBLY

=====

SECTION	BASE	BOLTS	AT	BASE	OF SECTION.....	CALC
NAME	ELEV	NUMBER	TYPE	DIAM	STRENGTH	BASE
	ft			in	ksi	ELEV
						ft
A	146.500	0	A325	0.00	92.0	0 146.500
B	96.750	0	A325	0.00	92.0	0 96.750
C	47.500	0	A325	0.00	92.0	0 47.500
D	0.000	0	A325	0.00	92.0	0 0.000

POLE SECTIONS

=====

SECTION NAME	No.of SIDES	LENGTH ft	OUTSIDE.DIAMETER		BEND RAD in	MAT- ERIAL ID	FLANGE.ID		FLANGE.WELD	
			BOT *	TOP *			BOT	TOP	..GROUP.ID..	
			in	in					BOT	TOP
A	18	12.50	19.33	16.25	0.625	1	0	0	0	0
B	18	52.50	31.07	18.14	0.625	2	0	0	0	0
C	18	53.50	42.56	29.39	0.625	3	0	0	0	0
D	18	53.25	53.49	40.38	0.625	4	0	0	0	0

* - Diameter of circumscribed circle

MATERIAL TYPES

=====

TYPE OF SHAPE	TYPE NO	NO OF ELEM.	ORIENT	HEIGHT	WIDTH	.THICKNESS.		IRREGULARITY	
			& deg	in	in	WEB	FLANGE	.PROJECTION.	% OF ORIENT
						in	in	AREA	deg
PL	1	1	0.0	19.32	0.25	0.250	0.250	0.00	0.0
PL	2	1	0.0	31.07	0.31	0.312	0.312	0.00	0.0
PL	3	1	0.0	42.56	0.38	0.375	0.375	0.00	0.0
PL	4	1	0.0	53.50	0.38	0.375	0.375	0.00	0.0

& - With respect to vertical

MATERIAL PROPERTIES

=====

MATERIAL TYPE NO.	ELASTIC MODULUS ksi	UNIT WEIGHT pcf	.. STRENGTH ..		THERMAL COEFFICIENT /deg
			Fu ksi	Fy ksi	
1	29000.0	490.0	80.0	65.0	0.00001170
2	29000.0	490.0	80.0	65.0	0.00001170
3	29000.0	490.0	80.0	65.0	0.00001170
4	29000.0	490.0	80.0	65.0	0.00001170

* Only 5 condition(s) shown in full

LOADING CONDITION A =====

106 mph wind with no ice. Wind Azimuth: 0 (1.2 D + 1.0 Wo)

LOADS ON POLE

=====

LOAD TYPE	ELEV ft	APPLY..LOAD..AT		LOAD AZI	FORCES.....		MOMENTS.....	
		RADIUS	AZI		HORIZ	DOWN	VERTICAL	TORSNAL
		ft			kip	kip	ft-kip	ft-kip
C	154.500	0.00	0.0	0.0	0.0276	0.0151	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0000	2.8829	0.0000	0.0000
C	154.000	0.00	0.0	0.0	11.6794	7.2000	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0305	0.0168	0.0000	0.0000
C	142.000	0.00	0.0	0.0	0.0000	2.6582	0.0000	0.0000
C	142.000	0.00	0.0	0.0	8.6855	4.8000	0.0000	0.0000

C	135.000	0.00	0.0	0.0	0.0304	0.0168	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0303	0.0168	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0302	0.0168	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0302	0.0168	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0302	0.0168	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0303	0.0168	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0305	0.0168	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0307	0.0168	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0309	0.0168	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0312	0.0168	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0315	0.0168	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0315	0.0168	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0308	0.0168	0.0000	0.0000
D	159.000	0.00	180.0	0.0	0.0370	0.0527	0.0000	0.0000
D	150.643	0.00	180.0	0.0	0.0392	0.0560	0.0000	0.0000
D	150.643	0.00	180.0	0.0	0.0414	0.1075	0.0000	0.0000
D	146.500	0.00	180.0	0.0	0.0414	0.1075	0.0000	0.0000
D	146.500	0.00	180.0	0.0	0.0430	0.0772	0.0000	0.0000
D	101.000	0.00	180.0	0.0	0.0634	0.1151	0.0000	0.0000
D	101.000	0.00	180.0	0.0	0.0663	0.2619	0.0000	0.0000
D	96.750	0.00	180.0	0.0	0.0663	0.2619	0.0000	0.0000
D	96.750	0.00	180.0	0.0	0.0676	0.1478	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0894	0.1912	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0934	0.3933	0.0000	0.0000
D	47.500	0.00	180.0	0.0	0.0934	0.3933	0.0000	0.0000
D	47.500	0.00	180.0	0.0	0.0945	0.2019	0.0000	0.0000
D	5.938	0.00	180.0	0.0	0.1177	0.2436	0.0000	0.0000
D	5.938	0.00	180.0	0.0	0.1298	0.2505	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.1298	0.2505	0.0000	0.0000

=====

LOADING CONDITION M =====

106 mph wind with no ice. Wind Azimuth: 0 (0.9 D + 1.0 Wo)

LOADS ON POLE

=====

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD.. AZI	LOAD AZI	FORCES.....		MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	154.500	0.00	0.0	0.0	0.0276	0.0113	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0000	2.1622	0.0000	0.0000
C	154.000	0.00	0.0	0.0	11.6794	5.4000	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0305	0.0126	0.0000	0.0000
C	142.000	0.00	0.0	0.0	0.0000	1.9937	0.0000	0.0000
C	142.000	0.00	0.0	0.0	8.6855	3.6000	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0304	0.0126	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0303	0.0126	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0302	0.0126	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0302	0.0126	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0302	0.0126	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0303	0.0126	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0305	0.0126	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0307	0.0126	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0309	0.0126	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0312	0.0126	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0315	0.0126	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0315	0.0126	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0308	0.0126	0.0000	0.0000
D	159.000	0.00	180.0	0.0	0.0370	0.0395	0.0000	0.0000
D	150.643	0.00	180.0	0.0	0.0392	0.0420	0.0000	0.0000
D	150.643	0.00	180.0	0.0	0.0414	0.0806	0.0000	0.0000

D	146.500	0.00	180.0	0.0	0.0414	0.0806	0.0000	0.0000
D	146.500	0.00	180.0	0.0	0.0430	0.0579	0.0000	0.0000
D	101.000	0.00	180.0	0.0	0.0634	0.0863	0.0000	0.0000
D	101.000	0.00	180.0	0.0	0.0663	0.1965	0.0000	0.0000
D	96.750	0.00	180.0	0.0	0.0663	0.1965	0.0000	0.0000
D	96.750	0.00	180.0	0.0	0.0676	0.1108	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0894	0.1434	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0934	0.2950	0.0000	0.0000
D	47.500	0.00	180.0	0.0	0.0934	0.2950	0.0000	0.0000
D	47.500	0.00	180.0	0.0	0.0945	0.1514	0.0000	0.0000
D	5.938	0.00	180.0	0.0	0.1177	0.1827	0.0000	0.0000
D	5.938	0.00	180.0	0.0	0.1298	0.1879	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.1298	0.1879	0.0000	0.0000

LOADING CONDITION Y

30 mph wind with 1.5 ice. Wind Azimuth: 0 (1.2 D + 1.0 Di + 1.0 Wi)

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZI	FORCES..... HORIZ kip	DOWN kip	MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	154.500	0.00	0.0	0.0	0.0177	0.0271	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0000	2.8829	0.0000	0.0000
C	154.000	0.00	0.0	0.0	1.6003	17.8664	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0195	0.0288	0.0000	0.0000
C	142.000	0.00	0.0	0.0	0.0000	2.6582	0.0000	0.0000
C	142.000	0.00	0.0	0.0	1.1890	11.8807	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0194	0.0288	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0193	0.0288	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0192	0.0288	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0191	0.0288	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0191	0.0288	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0191	0.0288	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0192	0.0288	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0193	0.0288	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0194	0.0288	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0196	0.0288	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0197	0.0288	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0195	0.0288	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0187	0.0288	0.0000	0.0000
D	159.000	0.00	180.0	0.0	0.0063	0.0930	0.0000	0.0000
D	150.643	0.00	180.0	0.0	0.0066	0.0984	0.0000	0.0000
D	150.643	0.00	180.0	0.0	0.0069	0.1521	0.0000	0.0000
D	146.500	0.00	180.0	0.0	0.0069	0.1521	0.0000	0.0000
D	146.500	0.00	180.0	0.0	0.0071	0.1235	0.0000	0.0000
D	101.000	0.00	180.0	0.0	0.0099	0.1813	0.0000	0.0000
D	101.000	0.00	180.0	0.0	0.0103	0.3309	0.0000	0.0000
D	96.750	0.00	180.0	0.0	0.0103	0.3309	0.0000	0.0000
D	96.750	0.00	180.0	0.0	0.0105	0.2180	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0136	0.2806	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0142	0.4857	0.0000	0.0000
D	47.500	0.00	180.0	0.0	0.0142	0.4857	0.0000	0.0000
D	47.500	0.00	180.0	0.0	0.0140	0.2990	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0186	0.3553	0.0000	0.0000

LOADING CONDITION AK

Seismic - Azimuth: 0 (1.2 D + 1.0 Ev + 1.0 Eh)

LOADS ON POLE
=====

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD.. AZI	AT AZI	LOAD AZI	FORCES..... HORIZ kip	DOWN kip	MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	154.500	0.00	0.0	0.0	0.0	0.0007	0.0156	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0	0.1400	2.9800	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0	0.3496	7.4424	0.0000	0.0000
C	152.750	0.00	0.0	0.0	0.0	0.0333	0.7211	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0	0.0007	0.0174	0.0000	0.0000
C	142.000	0.00	0.0	0.0	0.0	0.1097	2.7477	0.0000	0.0000
C	142.000	0.00	0.0	0.0	0.0	0.1981	4.9616	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0	0.0006	0.0174	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0	0.0005	0.0174	0.0000	0.0000
C	123.000	0.00	0.0	0.0	0.0	0.1571	5.2445	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0	0.0005	0.0174	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0	0.0004	0.0174	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0	0.0003	0.0174	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0	0.0002	0.0174	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0	0.0002	0.0174	0.0000	0.0000
C	74.250	0.00	0.0	0.0	0.0	0.1026	9.3975	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0	0.0001	0.0174	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0	0.0001	0.0174	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0	0.0001	0.0174	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0	0.0000	0.0174	0.0000	0.0000
C	26.620	0.00	0.0	0.0	0.0	0.0172	12.2345	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0	0.0000	0.0174	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0	0.0000	0.0174	0.0000	0.0000
D	159.000	0.00	180.0	180.0	0.0	0.0000	0.0000	0.0000	0.0000
D	0.000	0.00	180.0	180.0	0.0	0.0000	0.0000	0.0000	0.0000

LOADING CONDITION AL

Seismic - Azimuth: 0 (0.9 D - 1.0 Ev + 1.0 Eh)

LOADS ON POLE
=====

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD.. AZI	AT AZI	LOAD AZI	FORCES..... HORIZ kip	DOWN kip	MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	154.500	0.00	0.0	0.0	0.0	0.0007	0.0108	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0	0.1400	2.0651	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0	0.3496	5.1576	0.0000	0.0000
C	152.750	0.00	0.0	0.0	0.0	0.0333	0.4997	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0	0.0007	0.0120	0.0000	0.0000
C	142.000	0.00	0.0	0.0	0.0	0.1097	1.9042	0.0000	0.0000
C	142.000	0.00	0.0	0.0	0.0	0.1981	3.4384	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0	0.0006	0.0120	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0	0.0005	0.0120	0.0000	0.0000
C	123.000	0.00	0.0	0.0	0.0	0.1571	3.6345	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0	0.0005	0.0120	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0	0.0004	0.0120	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0	0.0003	0.0120	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0	0.0002	0.0120	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0	0.0002	0.0120	0.0000	0.0000
C	74.250	0.00	0.0	0.0	0.0	0.1026	6.5125	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0	0.0001	0.0120	0.0000	0.0000

C	55.000	0.00	0.0	0.0	0.0001	0.0120	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0001	0.0120	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0000	0.0120	0.0000	0.0000
C	26.620	0.00	0.0	0.0	0.0172	8.4785	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0000	0.0120	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0000	0.0120	0.0000	0.0000

D	159.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000
D	0.000	0.00	180.0	180.0	0.0000	0.0000	0.0000	0.0000

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160' Monopole / MOOREFIELD ROAD, KY

MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

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MAST ELEV ft	DEFLECTIONS (ft).....			ROTATIONS (deg).....		
	 HORIZONTAL ALONG	 ACROSS	DOWN	 TILT ALONG	 ACROSS	TWIST
159.0	16.01E	0.06E	2.32E	11.82E	0.04E	0.01L
154.8	15.19E	0.06E	2.15E	11.82E	0.04E	0.01L
150.6	14.36E	0.05E	1.98E	11.78E	0.04E	0.01L
146.5	13.55E	0.05E	1.82E	11.67E	0.04E	0.01L
140.0	12.29E	0.05E	1.57E	11.35E	0.04E	0.01L
133.5	11.08E	0.04E	1.33E	10.87E	0.04E	0.01L
127.0	9.92E	0.04E	1.12E	10.27E	0.04E	0.01L
120.5	8.82E	0.03E	0.93E	9.60E	0.03E	0.01L
114.0	7.80E	0.03E	0.76E	8.91E	0.03E	0.01L
107.5	6.85E	0.03E	0.62E	8.20E	0.03E	0.01L
101.0	5.98E	0.02E	0.50E	7.50E	0.03E	0.00L
96.7	5.44E	0.02E	0.43E	7.12E	0.03E	0.00L
90.5	4.71E	0.02E	0.35E	6.54E	0.02E	0.00L
84.3	4.04E	0.02Q	0.27E	5.98E	0.02E	0.00L
78.1	3.43E	0.01Q	0.21E	5.44E	0.02E	0.00L
71.9	2.87E	0.01Q	0.16E	4.91E	0.02E	0.00L
65.7	2.37E	0.01Q	0.12E	4.41E	0.02E	0.00L

59.5	1.92E	0.01Q	0.09E	3.93E	0.02Q	0.00L
53.2	1.52E	0.01Q	0.06E	3.46E	0.01Q	0.00L
47.5	1.20E	0.01X	0.04E	3.05E	0.01Q	0.00L
41.6	0.91E	0.00X	0.03E	2.61E	0.01Q	0.00L
35.6	0.66E	0.00X	0.02E	2.20E	0.01X	0.00L
29.7	0.45E	0.00X	0.01E	1.80E	0.01X	0.00L
23.7	0.28E	0.00X	0.01E	1.41E	0.01X	0.00L
17.8	0.16E	0.00X	0.00E	1.04E	0.00X	0.00L
11.9	0.07E	0.00X	0.00E	0.68E	0.00X	0.00L
5.9	0.02E	0.00X	0.00AG	0.33E	0.00X	0.00L
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

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MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.t.WIND.DIR ALONG kip	WIND.DIR ACROSS kip	MOMENT.w.r.t.WIND.DIR ALONG ft-kip	WIND.DIR ACROSS ft-kip	TORSION ft-kip
159.0	0.02 W	0.04 C	0.01 R	0.08 C	0.03 R	-0.01 R
154.8	0.39 AD	0.20 C	0.01 R	-0.48 C	-0.03 R	0.01 R
150.6	0.40 AB	0.19 R	0.05 L	-0.49 C	-0.05 R	-0.01 C
146.5	21.58 AB	12.06 R	0.05 L	-46.09 I	-0.21 L	0.05 L
140.0	21.58 AB	12.11 C	0.07 E	-46.14 I	-0.19 L	0.05 L
133.5	22.21 AB	12.28 C	0.07 E	-103.19 E	-0.45 L	0.11 L
127.0	22.21 AB	12.29 F	-0.08 C	-103.17 E	-0.44 E	0.11 L
120.5	37.61 AB	21.29 F	-0.08 C	-214.52 E	-0.90 E	0.22 L
114.0	37.61 AG	21.29 E	0.09 L	-214.56 E	-0.91 E	0.22 L
107.5	38.52 AG	21.63 E	0.09 L	-372.26 E	-1.43 L	0.35 L
100.0	38.52 AG	21.61 M	0.09 L	-372.19 E	-1.42 E	0.35 L
92.5	39.46 AG	21.93 M	0.09 L	-531.89 E	-1.95 L	0.48 L
85.0	39.46 AF	21.97 P	0.09 W	-531.84 E	-1.99 L	0.49 L
77.5	40.48 AF	22.34 P	0.09 W	-693.76 E	-2.42 L	0.59 L
70.0	40.48 AF	22.34 P	0.08 W	-693.75 E	-2.44 L	0.59 L
62.5	41.55 AF	22.73 P	0.08 W	-857.69 E	-2.74 L	0.66 L
55.0	41.55 AF	22.75 E	-0.09 F	-857.64 E	-2.79 L	0.67 L
47.5	42.64 AF	23.13 E	-0.09 F	-1024.24 E	-3.10 E	0.70 L
40.0	42.64 AF	23.10 F	-0.12 F	-1024.18 E	-3.09 E	0.69 L

101.0	43.82 AF	23.53 F	-0.12 F	-1192.73 E	-3.43 E	0.78 L
	43.82 AG	23.61 N	0.16 L	-1192.56 E	-3.38 E	0.77 L
96.7	45.23 AG	23.89 N	0.16 L	-1304.04 E	-3.92 L	0.86 L
	45.23 AG	23.82 R	0.18 L	-1303.89 E	-3.89 L	0.86 L
90.5	46.64 AG	24.28 R	0.18 L	-1469.06 E	-5.01 L	1.00 L
	46.64 AG	24.31 Q	0.17 L	-1469.06 E	-4.94 L	1.00 L
84.3	48.11 AG	24.78 Q	0.17 L	-1636.02 E	-5.98 L	1.12 L
	48.11 AG	24.78 Q	0.14 X	-1635.85 E	-5.97 L	1.12 L
78.1	49.60 AG	25.25 Q	0.14 X	-1805.43 E	-6.68 L	1.20 L
	49.60 AG	25.26 R	-0.18 I	-1805.42 E	-6.66 L	1.20 L
71.9	51.18 AG	25.77 R	-0.18 I	-1977.11 E	-7.16 L	1.26 L
	51.18 AG	25.83 Q	0.20 Q	-1977.24 E	-7.19 L	1.26 L
65.7	52.78 AG	26.34 Q	0.20 Q	-2151.87 E	-7.85 L	1.32 L
	52.78 AG	26.36 R	0.23 Q	-2151.94 E	-7.87 L	1.32 L
59.5	54.47 AG	26.91 R	0.23 Q	-2329.43 E	-8.58 E	1.37 L
	54.47 AG	26.86 W	0.20 Q	-2329.54 E	-8.55 E	1.37 L
53.2	56.22 AG	27.44 W	0.20 Q	-2509.56 E	-9.38 E	1.40 L
	56.22 AG	27.43 E	0.25 X	-2509.66 E	-9.42 E	1.40 L
47.5	59.01 AG	27.97 E	0.25 X	-2678.96 E	-10.29 E	1.44 L
	59.01 AG	27.96 W	0.28 X	-2678.96 E	-10.33 E	1.44 L
41.6	60.84 AG	28.55 W	0.28 X	-2856.36 E	-11.16 E	1.46 L
	60.84 AG	28.59 Q	0.29 X	-2856.39 E	-11.16 E	1.46 L
35.6	62.67 AG	29.18 Q	0.29 X	-3036.31 E	-12.06 Q	1.48 L
	62.67 AG	29.16 R	0.29 X	-3036.30 E	-12.07 Q	1.49 L
29.7	64.58 AG	29.80 R	0.29 X	-3218.74 E	-13.28 Q	1.51 L
	64.58 AG	29.83 R	0.27 X	-3218.75 E	-13.28 Q	1.51 L
23.7	66.53 AG	30.50 R	0.27 X	-3403.71 E	-14.69 Q	1.52 L
	66.53 AG	30.49 R	0.28 X	-3403.71 E	-14.70 Q	1.52 L
17.8	68.50 AG	31.15 R	0.28 X	-3591.53 E	-16.19 X	1.54 L
	68.50 AG	31.17 R	0.26 X	-3591.52 E	-16.19 X	1.54 L
11.9	70.53 AG	31.88 R	0.26 X	-3781.91 E	-17.77 X	1.55 L
	70.53 AG	31.88 R	0.27 X	-3781.91 E	-17.77 X	1.55 L
5.9	72.58 AG	32.59 R	0.27 X	-3975.16 E	-19.39 X	1.56 L
	72.58 AG	32.59 R	0.27 X	-3975.15 E	-19.39 X	1.56 L

	74.67 AG	33.32 R	0.27 X	-4171.26 E	-21.01 X	1.56 L

base						
reaction	74.67 AG	-33.32 R	-0.27 X	4171.26 E	21.01 X	-1.56 L

COMPLIANCE WITH 4.8.2 & 4.5.4

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ELEV	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
ft							
159.00	0.00W	0.00C	0.00C	0.00C	YES	10.05A	45.2
	0.00AD	0.00C	0.00C	0.00C	YES	10.77A	45.2
154.82	0.00AB	0.00C	0.00R	0.00C	YES	10.77A	45.2
	0.02AB	0.12I	0.02R	0.13I	YES	11.48A	45.2
150.64	0.02AB	0.10I	0.02C	0.11I	YES	9.11A	45.2
	0.02AB	0.20E	0.02C	0.20E	YES	9.68A	45.2
146.50	0.02AB	0.21E	0.02F	0.22E	YES	9.40A	45.2
	0.03AB	0.36E	0.03F	0.38E	YES	10.29A	45.2
140.00	0.03AG	0.36E	0.03E	0.38E	YES	10.29A	45.2
	0.02AG	0.54E	0.03E	0.55E	YES	11.18A	45.2
133.50	0.02AG	0.54E	0.03M	0.55E	YES	11.18A	45.2
	0.02AG	0.67E	0.03M	0.68E	YES	12.07A	45.2
127.00	0.02AF	0.67E	0.03P	0.68E	YES	12.07A	45.2
	0.02AF	0.76E	0.02P	0.78E	YES	12.96A	45.2
120.50	0.02AF	0.76E	0.02P	0.78E	YES	12.96A	45.2
	0.02AF	0.83E	0.02P	0.85E	YES	13.85A	45.2
114.00	0.02AF	0.83E	0.02E	0.85E	YES	13.85A	45.2
	0.02AF	0.89E	0.02E	0.90E	YES	14.74A	45.2
107.50	0.02AF	0.89E	0.02F	0.90E	YES	14.74A	45.2
	0.02AF	0.92E	0.02F	0.93E	YES	15.62A	45.2
101.00	0.02AG	0.77E	0.02N	0.78E	YES	12.96A	45.2
	0.02AG	0.79E	0.02N	0.80E	YES	13.45A	45.2
96.75	0.02AG	0.82E	0.02R	0.83E	YES	13.15A	45.2
	0.02AG	0.84E	0.02R	0.85E	YES	13.86A	45.2
90.54	0.02AG	0.84E	0.02Q	0.85E	YES	13.86A	45.2
	0.02AG	0.85E	0.02Q	0.86E	YES	14.57A	45.2
84.32	0.02AG	0.85E	0.02Q	0.86E	YES	14.57A	45.2

78.11	0.02AG	0.86E	0.02Q	0.86E	YES	15.28A	45.2
	0.02AG	0.86E	0.02F	0.86E	YES	15.28A	45.2
71.89	0.02AG	0.86E	0.02F	0.87E	YES	15.99A	45.2
	0.02AG	0.86E	0.02Q	0.87E	YES	15.99A	45.2
65.68	0.02AG	0.87E	0.02Q	0.88E	YES	16.70A	45.2
	0.02AG	0.87E	0.02R	0.88E	YES	16.70A	45.2
59.46	0.02AG	0.88E	0.02R	0.89E	YES	17.40A	45.2
	0.02AG	0.88E	0.02W	0.89E	YES	17.40A	45.2
53.25	0.02AG	0.88E	0.02Q	0.89E	YES	18.11A	45.2
	0.02AG	0.88E	0.02E	0.89E	YES	18.11A	45.2
47.50	0.02AG	0.89E	0.02E	0.90E	YES	18.77A	45.2
	0.02AG	0.92E	0.02Q	0.93E	YES	18.42A	45.2
41.56	0.02AG	0.92E	0.02Q	0.93E	YES	19.09A	45.2
	0.02AG	0.92E	0.02Q	0.93E	YES	19.09A	45.2
35.62	0.02AG	0.93E	0.02Q	0.94E	YES	19.77A	45.2
	0.02AG	0.93E	0.02E	0.94E	YES	19.77A	45.2
29.69	0.02AG	0.93E	0.02E	0.94E	YES	20.45A	45.2
	0.02AG	0.93E	0.02R	0.94E	YES	20.45A	45.2
23.75	0.02AG	0.93E	0.02R	0.94E	YES	21.12A	45.2
	0.02AG	0.93E	0.02R	0.94E	YES	21.12A	45.2
17.81	0.02AG	0.93E	0.02R	0.94E	YES	21.80A	45.2
	0.02AG	0.93E	0.02R	0.94E	YES	21.80A	45.2
11.87	0.02AG	0.94E	0.02R	0.95E	YES	22.48A	45.2
	0.02AG	0.94E	0.02R	0.95E	YES	22.48A	45.2
5.94	0.02AG	0.94E	0.02R	0.95E	YES	23.15A	45.2
	0.02AG	0.94E	0.02R	0.95E	YES	23.15A	45.2
0.00	0.02AG	0.94E	0.02R	0.95E	YES	23.83A	45.2

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

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DOWN	SHEAR.w.r.t.WIND.DIR	MOMENT.w.r.t.WIND.DIR	TORSION
kip	ALONG kip	ALONG ft-kip	ft-kip
	ACROSS kip	ACROSS ft-kip	
74.67	33.32	-4171.26	1.56
AG	R	E	L

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160' Monopole / MOOREFIELD ROAD, KY

***** Service Load Condition *****

* Only 1 condition(s) shown in full

LOADING CONDITION A =====

60 mph wind with no ice. Wind Azimuth: 0 (1.0 D + 1.0 Wo)

LOADS ON POLE

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LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	FORCES..... HORIZ kip	DOWN kip	MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	154.500	0.00	0.0	0.0	0.0079	0.0126	0.0000	0.0000
C	154.000	0.00	0.0	0.0	0.0000	2.4024	0.0000	0.0000
C	154.000	0.00	0.0	0.0	3.3482	6.0000	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	142.000	0.00	0.0	0.0	0.0000	2.2152	0.0000	0.0000
C	142.000	0.00	0.0	0.0	2.4899	4.0000	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0087	0.0140	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0088	0.0140	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0089	0.0140	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0090	0.0140	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0090	0.0140	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0090	0.0140	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0088	0.0140	0.0000	0.0000
D	159.000	0.00	180.0	0.0	0.0106	0.0439	0.0000	0.0000
D	150.643	0.00	180.0	0.0	0.0112	0.0466	0.0000	0.0000
D	150.643	0.00	180.0	0.0	0.0119	0.0896	0.0000	0.0000
D	146.500	0.00	180.0	0.0	0.0119	0.0896	0.0000	0.0000
D	146.500	0.00	180.0	0.0	0.0123	0.0644	0.0000	0.0000
D	101.000	0.00	180.0	0.0	0.0182	0.0959	0.0000	0.0000
D	101.000	0.00	180.0	0.0	0.0190	0.2183	0.0000	0.0000
D	96.750	0.00	180.0	0.0	0.0190	0.2183	0.0000	0.0000
D	96.750	0.00	180.0	0.0	0.0194	0.1231	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0256	0.1594	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0268	0.3278	0.0000	0.0000
D	47.500	0.00	180.0	0.0	0.0268	0.3278	0.0000	0.0000
D	47.500	0.00	180.0	0.0	0.0265	0.1683	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0360	0.2088	0.0000	0.0000

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MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

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MAST ELEV ft	DEFLECTIONS (ft).....			ROTATIONS (deg).....		
	 HORIZONTAL	 DOWN		 TILT		TWIST
	ALONG	ACROSS		ALONG	ACROSS	
159.0	4.72L	-0.01C	0.20G	3.42L	-0.01C	0.00L
154.8	4.47L	-0.01C	0.19G	3.42L	-0.01C	0.00L
150.6	4.22L	-0.01C	0.17G	3.41L	-0.01C	0.00L
146.5	3.98L	-0.01C	0.16G	3.38L	-0.01C	0.00L
140.0	3.60L	-0.01C	0.14G	3.28L	-0.01C	0.00L
133.5	3.24L	-0.01C	0.11G	3.14L	-0.01C	0.00L
127.0	2.89L	-0.01C	0.10G	2.97L	-0.01C	0.00L
120.5	2.56L	-0.01C	0.08G	2.77L	-0.01C	0.00C
114.0	2.26L	-0.01C	0.07G	2.57L	-0.01C	0.00C
107.5	1.98L	-0.01C	0.05G	2.36L	-0.01C	0.00C
101.0	1.73L	0.00C	0.04G	2.16L	-0.01C	0.00C
96.7	1.57L	0.00C	0.04G	2.05L	-0.01C	0.00C
90.5	1.36L	0.00C	0.03G	1.88L	-0.01C	0.00L
84.3	1.16L	0.00C	0.02G	1.72L	0.00C	0.00L
78.1	0.99L	0.00C	0.02G	1.56L	0.00C	0.00L
71.9	0.83L	0.00C	0.01G	1.41L	0.00C	0.00L
65.7	0.68L	0.00I	0.01G	1.26L	0.00C	0.00L
59.5	0.55L	0.00I	0.01G	1.13L	0.00C	0.00L
53.2	0.44L	0.00I	0.01G	0.99L	0.00C	0.00L
47.5	0.34L	0.00I	0.00G	0.87L	0.00I	0.00L
41.6	0.26L	0.00I	0.00G	0.75L	0.00I	0.00L
35.6	0.19L	0.00I	0.00G	0.63L	0.00I	0.00L
29.7	0.13L	0.00I	0.00G	0.51L	0.00I	0.00L
23.7	0.08L	0.00I	0.00G	0.40L	0.00I	0.00L
17.8	0.05L	0.00I	0.00G	0.30L	0.00I	0.00L
11.9	0.02L	0.00I	0.00G	0.19L	0.00I	0.00L
5.9	0.00L	0.00I	0.00I	0.10L	0.00I	0.00L
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

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MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.t. ALONG kip	WIND.DIR ACROSS kip	MOMENT.w.r.t. ALONG ft-kip	WIND.DIR ACROSS ft-kip	TORSION ft-kip
159.0	0.00 D	0.01 D	0.00 E	0.02 K	-0.01 E	0.00 E
	0.19 L	0.05 D	0.00 E	-0.14 K	0.01 E	0.00 E
154.8	0.19 L	0.07 L	0.01 F	-0.14 K	0.02 F	0.00 F
	8.80 L	3.47 L	0.01 F	-13.46 L	0.04 B	0.00 L
150.6	8.80 I	3.46 L	-0.03 E	-13.44 L	0.04 L	-0.01 L
	9.17 I	3.51 L	-0.03 E	-30.01 L	0.09 K	-0.01 L
146.5	9.17 I	3.52 E	-0.03 C	-30.04 L	0.09 K	-0.01 L
	15.84 I	6.10 E	-0.03 C	-62.27 E	0.25 C	-0.02 L
140.0	15.84 I	6.11 E	-0.02 C	-62.27 E	0.25 C	-0.02 L
	16.31 I	6.20 E	-0.02 C	-107.97 E	0.39 C	-0.02 L
133.5	16.31 I	6.21 E	-0.02 C	-107.97 E	0.40 C	-0.02 L
	16.81 I	6.31 E	-0.02 C	-154.24 E	0.56 C	-0.03 L
127.0	16.81 I	6.30 L	-0.03 C	-154.23 E	0.55 C	-0.03 L
	17.35 I	6.40 L	-0.03 C	-200.94 E	0.75 C	-0.04 L
120.5	17.34 I	6.40 E	-0.03 C	-200.92 E	0.74 C	-0.04 L
	17.90 I	6.52 E	-0.03 C	-248.11 E	0.94 C	-0.05 L
114.0	17.91 I	6.53 L	-0.04 C	-248.10 E	0.94 C	-0.05 L
	18.49 I	6.64 L	-0.04 C	-295.79 E	1.20 C	-0.06 C
107.5	18.48 I	6.64 C	-0.03 C	-295.78 E	1.20 C	-0.06 C
	19.11 I	6.77 C	-0.03 C	-343.83 L	1.40 C	-0.06 C
101.0	19.11 I	6.76 C	-0.03 C	-343.82 L	1.40 C	-0.06 C
	20.04 I	6.84 C	-0.03 C	-375.73 L	1.51 C	-0.07 C
96.7	20.03 I	6.83 L	-0.03 C	-375.69 L	1.52 C	-0.07 C
	20.83 I	6.96 L	-0.03 C	-422.80 L	1.73 C	-0.08 C
90.5	20.83 I	6.95 L	0.03 F	-422.81 L	1.73 C	-0.08 C
	21.65 I	7.09 L	0.03 F	-470.50 L	1.82 C	-0.08 C
84.3	21.65 I	7.10 L	0.04 I	-470.54 L	1.83 C	-0.08 C
	22.50 I	7.23 L	0.04 I	-518.92 L	1.91 C	-0.08 C
78.1	22.50 I	7.23 L	0.02 I	-518.92 L	1.90 C	-0.08 C
	23.39 I	7.38 L	0.02 I	-567.97 L	1.97 C	-0.08 C
71.9	23.39 I	7.40 L	0.03 I	-567.95 L	1.97 C	-0.08 C

65.7	24.30 I	7.55 L	0.03 I	-617.81 L	2.00 C	-0.09 C
	24.30 I	7.54 L	0.04 I	-617.83 L	2.02 C	-0.09 C
59.5	25.25 I	7.70 L	0.04 I	-668.41 L	2.01 C	-0.09 C
	25.26 I	7.71 L	0.04 I	-668.38 L	2.00 C	-0.09 C
53.2	26.24 I	7.88 L	0.04 I	-719.70 L	2.10 C	-0.09 L
	26.24 I	7.88 L	0.04 I	-719.67 L	2.08 C	-0.09 L
47.5	28.13 I	8.03 L	0.04 I	-767.92 L	2.14 C	-0.10 L
	28.13 I	8.03 L	0.04 I	-767.92 L	2.14 C	-0.10 L
41.6	29.16 I	8.20 L	0.04 I	-818.46 L	2.21 C	-0.10 L
	29.16 I	8.19 L	-0.03 E	-818.45 L	2.22 C	-0.10 L
35.6	30.20 I	8.36 L	-0.03 E	-869.66 L	2.22 C	-0.10 L
	30.20 I	8.35 G	-0.04 E	-869.65 L	2.22 C	-0.11 L
29.7	31.29 I	8.54 G	-0.04 E	-921.60 L	2.26 C	-0.11 L
	31.29 I	8.55 L	0.04 I	-921.59 L	2.26 C	-0.11 L
23.7	32.41 I	8.74 L	0.04 I	-974.38 L	-2.43 I	-0.11 L
	32.41 I	8.73 G	0.04 I	-974.37 L	-2.43 I	-0.11 L
17.8	33.54 I	8.92 G	0.04 I	-1027.91 L	-2.70 I	-0.11 L
	33.54 I	8.92 G	0.04 I	-1027.91 L	-2.71 I	-0.11 L
11.9	34.72 I	9.12 G	0.04 I	-1082.31 L	-2.96 I	-0.11 L
	34.72 I	9.12 L	0.04 I	-1082.31 L	-2.96 I	-0.11 L
5.9	35.92 I	9.33 L	0.04 I	-1137.60 L	-3.21 I	-0.12 L
	35.92 I	9.33 G	-0.04 E	-1137.60 L	-3.21 I	-0.12 L
	37.14 I	9.54 G	-0.04 E	-1193.77 L	-3.46 I	-0.12 L

base	37.14 I	-9.54 G	0.04 E	1193.77 L	3.46 I	0.12 L
reaction						

COMPLIANCE WITH 4.8.2 & 4.5.4

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ELEV	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
ft							
159.00	0.00D	0.00K	0.00D	0.00K	YES	10.05A	45.2
154.82	0.00L	0.00K	0.00D	0.00A	YES	10.77A	45.2
	0.00L	0.00K	0.00L	0.00K	YES	10.77A	45.2
150.64	0.01L	0.04L	0.01L	0.04L	YES	11.48A	45.2
	0.01I	0.03L	0.01L	0.04L	YES	9.11A	45.2

146.50	0.01I	0.06L	0.01L	0.06L	YES	9.68A	45.2
	0.01I	0.06L	0.01E	0.07L	YES	9.40A	45.2
140.00	0.01I	0.11E	0.01E	0.12E	YES	10.29A	45.2
	0.01I	0.11E	0.01E	0.12E	YES	10.29A	45.2
133.50	0.01I	0.16E	0.01E	0.17E	YES	11.18A	45.2
	0.01I	0.16E	0.01E	0.17E	YES	11.18A	45.2
127.00	0.01I	0.19E	0.01E	0.20E	YES	12.07A	45.2
	0.01I	0.19E	0.01L	0.20E	YES	12.07A	45.2
120.50	0.01I	0.22E	0.01L	0.23E	YES	12.96A	45.2
	0.01I	0.22E	0.01E	0.23E	YES	12.96A	45.2
114.00	0.01I	0.24E	0.01E	0.25E	YES	13.85A	45.2
	0.01I	0.24E	0.01L	0.25E	YES	13.85A	45.2
107.50	0.01I	0.26E	0.01L	0.26E	YES	14.74A	45.2
	0.01I	0.26E	0.01C	0.26E	YES	14.74A	45.2
101.00	0.01I	0.27L	0.01C	0.27L	YES	15.62A	45.2
	0.01I	0.22L	0.01C	0.23L	YES	12.96A	45.2
96.75	0.01I	0.23L	0.01C	0.23L	YES	13.45A	45.2
	0.01I	0.24L	0.01L	0.24L	YES	13.15A	45.2
90.54	0.01I	0.24L	0.01L	0.25L	YES	13.86A	45.2
	0.01I	0.24L	0.01L	0.25L	YES	13.86A	45.2
84.32	0.01I	0.24L	0.00L	0.25L	YES	14.57A	45.2
	0.01I	0.24L	0.00L	0.25L	YES	14.57A	45.2
78.11	0.01I	0.25L	0.00L	0.25L	YES	15.28A	45.2
	0.01I	0.25L	0.00L	0.25L	YES	15.28A	45.2
71.89	0.01I	0.25L	0.00L	0.25L	YES	15.99A	45.2
	0.01I	0.25L	0.00L	0.25L	YES	15.99A	45.2
65.68	0.01I	0.25L	0.00L	0.26L	YES	16.70A	45.2
	0.01I	0.25L	0.00L	0.26L	YES	16.70A	45.2
59.46	0.01I	0.25L	0.00L	0.26L	YES	17.40A	45.2
	0.01I	0.25L	0.00L	0.26L	YES	17.40A	45.2
53.25	0.01I	0.25L	0.00L	0.26L	YES	18.11A	45.2
	0.01I	0.25L	0.00L	0.26L	YES	18.11A	45.2
47.50	0.01I	0.25L	0.00L	0.26L	YES	18.77A	45.2
	0.01I	0.26L	0.00L	0.27L	YES	18.42A	45.2

41.56	0.01I	0.26L	0.00L	0.27L	YES	19.09A	45.2
	0.01I	0.26L	0.00L	0.27L	YES	19.09A	45.2
35.62	0.01I	0.27L	0.00L	0.27L	YES	19.77A	45.2
	0.01I	0.27L	0.00L	0.27L	YES	19.77A	45.2
29.69	0.01I	0.27L	0.00L	0.27L	YES	20.45A	45.2
	0.01I	0.27L	0.00L	0.27L	YES	20.45A	45.2
23.75	0.01I	0.27L	0.00L	0.28L	YES	21.12A	45.2
	0.01I	0.27L	0.00L	0.28L	YES	21.12A	45.2
17.81	0.01I	0.27L	0.00L	0.28L	YES	21.80A	45.2
	0.01I	0.27L	0.00L	0.28L	YES	21.80A	45.2
11.87	0.01I	0.27L	0.00L	0.28L	YES	22.48A	45.2
	0.01I	0.27L	0.00L	0.28L	YES	22.48A	45.2
5.94	0.01I	0.27L	0.00L	0.28L	YES	23.15A	45.2
	0.01I	0.27L	0.00L	0.28L	YES	23.15A	45.2
0.00	0.01I	0.27L	0.00L	0.28L	YES	23.83A	45.2

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

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DOWN	SHEAR.w.r.t.WIND.DIR	MOMENT.w.r.t.WIND.DIR	TORSION
kip	ALONG kip	ALONG ft-kip	ft-kip
	ACROSS kip	ACROSS ft-kip	
37.14	9.54	-0.04	-1193.77
I	G	E	L
			-3.46
			I
			L

=====

Seismic Load Effects
Equivalent Lateral Force Procedure
ANSI/TIA-222-H (ASCE 7-16)

		Vertical Distribution of Seismic Forces								
		Description	h _i (ft.)	w _i (kips)	W _u (kips)	w _i h _i ^{ke}	F _{sz} or E _h	E _v (kips)	1.2 D + 1.0 E _v	0.9 D - 1.0 E _v
Parameters							(kips)		(kips)	(kips)
Risk Category	II	Step Bolts/Safety Climb Load	154.50	0.0126	0.0000	300.7652	0.0007	0.0005	0.0156	0.0108
		Antenna Load	154.00	6.0000	6.0000	142,296.0000	0.3496	0.2424	7.4424	5.1576
		Line Deadload	154.00	2.4024	0.0000	56,975.3184	0.1400	0.0971	2.9800	2.0651
S _S	0.189	Structure - Section 1	152.75	0.5813	0.0000	13,563.2186	0.0333	0.0235	0.7211	0.4997
Site Class	D	Step Bolts/Safety Climb Load	145.00	0.0140	0.0000	294.3500	0.0007	0.0006	0.0174	0.0120
		Antenna Load	142.00	4.0000	4.0000	80,656.0000	0.1981	0.1616	4.9616	3.4384
		Line Deadload	142.00	2.2152	0.0000	44,667.2928	0.1097	0.0895	2.7477	1.9042
T _L (sec)	12.000	Step Bolts/Safety Climb Load	135.00	0.0140	0.0000	255.1500	0.0006	0.0006	0.0174	0.0120
F _a	1.600	Step Bolts/Safety Climb Load	125.00	0.0140	0.0000	218.7500	0.0005	0.0006	0.0174	0.0120
F _v	2.400	Structure - Section 2	123.00	4.2281	0.0000	63,966.9249	0.1571	0.1708	5.2445	3.6345
S _{MS}	0.302	Step Bolts/Safety Climb Load	115.00	0.0140	0.0000	185.1500	0.0005	0.0006	0.0174	0.0120
S _{M1}	0.194	Step Bolts/Safety Climb Load	105.00	0.0140	0.0000	154.3500	0.0004	0.0006	0.0174	0.0120
S _{DS}	0.202	Step Bolts/Safety Climb Load	95.00	0.0140	0.0000	126.3500	0.0003	0.0006	0.0174	0.0120
S _{D1}	0.130	Step Bolts/Safety Climb Load	85.00	0.0140	0.0000	101.1500	0.0002	0.0006	0.0174	0.0120
T _s	0.644	Step Bolts/Safety Climb Load	75.00	0.0140	0.0000	78.7500	0.0002	0.0006	0.0174	0.0120
I _e	1.000	Structure - Section 3	74.25	7.5762	0.0000	41,768.0641	0.1026	0.3061	9.3975	6.5125
Ω	1.500	Step Bolts/Safety Climb Load	65.00	0.0140	0.0000	59.1500	0.0001	0.0006	0.0174	0.0120
C _S	0.030	Step Bolts/Safety Climb Load	55.00	0.0140	0.0000	42.3500	0.0001	0.0006	0.0174	0.0120
E (ksi)	29,000	Step Bolts/Safety Climb Load	45.00	0.0140	0.0000	28.3500	0.0001	0.0006	0.0174	0.0120
I _{top} (in ⁴)	393	Step Bolts/Safety Climb Load	35.00	0.0140	0.0000	17.1500	0.0000	0.0006	0.0174	0.0120
I _{bot} (in ⁴)	21,569	Structure - Section 4	26.62	9.8633	0.0000	6,989.3750	0.0172	0.3985	12.2345	8.4785
I _{avg} (in ⁴)	10,981	Step Bolts/Safety Climb Load	25.00	0.0140	0.0000	8.7500	0.0000	0.0006	0.0174	0.0120
g (in/s ²)	386.4	Step Bolts/Safety Climb Load	15.00	0.0140	0.0000	3.1500	0.0000	0.0006	0.0174	0.0120
W _t (kips)	37.075	Σ		37.08	10.0000	452,755.86	1.11	1.50	45.99	31.87
W _u (kips)	10.000									
W _L (kips)	27.075									
L _p (in)	1908									
f ₁ (Hertz)	0.287									
T (sec)	3.489									
k _s	2.0000									
V _s (kips)	1.112									
Seismic Design Category	B									



SO#: 27-1531-RRM
Site Name: MOOREFIELD ROAD, KY
Date: 10/23/2026

Round Base Plate and Anchor Rods, per ANSI/TIA 222-H

Pole Data

Diameter: 52.680 in (flat to flat)
Thickness: 0.375 in
Yield (Fy): 65 ksi
of Sides: 18 "0" IF Round
Strength (Fu): 80 ksi

Reactions

Moment, Mu: 4171.26 ft-kips
Axial, Pu: 44.65 kips
Shear, Vu: 33.27 kips

Anchor Rod Data

Quantity: 16
Diameter: 2.25 in
Rod Material: A615
Strength (Fu): 100 ksi
Yield (Fy): 75 ksi
BC Diam. (in): 59.25 BC Override:

Plate Data

Diameter (in): 65 Dia. Override:
Thickness: 2 in
Yield (Fy): 50 ksi
Eff Width/Rod: 10.45 in
Drain Hole: 2.625 in. diameter
Drain Location: 24.25 in. center of pole to center of drain hole
Center Hole: 40.5 in. diameter

Anchor Rod Results

(per 4.9.9)

Maximum Put: 209.11 Kips
 Φt^*R_{nt} : 243.75 Kips
Vu: 2.08 Kips
 Φv^*R_{nv} : 149.10 Kips
Tension Interaction Ratio: 0.74
Maximum Puc: 213.99 Kips
 Φc^*R_{nc} : 268.39 Kips
Vu: 2.08 Kips
 Φc^*R_{ncv} : 120.77 Kips
Compression Interaction Ratio: 0.80
Maximum Interaction Ratio: **79.8% Pass**

Base Plate Results

Base Plate (Mu/Z): 42.0 ksi
Allowable Φ^*F_y : 45.0 ksi (per AISC)
Base Plate Interaction Ratio: **93.4% Pass**

MAT FOUNDATION DESIGN BY SABRE INDUSTRIES

160' Monopole HARMONI TOWERS MOOREFIELD ROAD, KY (27-1531-RRM) 10/23/26 VK

Overall Loads:

Factored Moment (ft-kips)	4624.07
Factored Axial (kips)	49.59
Factored Shear (kips)	36.89
Bearing Design Strength (ksf)	4.5
Water Table Below Grade (ft)	999
Width of Mat (ft)	25.5
Thickness of Mat (ft)	1.75
Depth to Bottom of Slab (ft)	6
Quantity of Bolts in Bolt Circle	16
Bolt Circle Diameter (in)	59.25
Effective Anchor	
Bolt Embedment (in)	66.5
Diameter of Pier (ft)	7
Ht. of Pier Above Ground (ft)	0.5
Ht. of Pier Below Ground (ft)	4.25
Quantity of Bars in Mat	34
Bar Diameter in Mat (in)	1.27
Area of Bars in Mat (in ²)	43.07
Spacing of Bars in Mat (in)	9.05
Quantity of Bars Pier	38
Bar Diameter in Pier (in)	1
Tie Bar Diameter in Pier (in)	0.625
Spacing of Ties (in)	4
Area of Bars in Pier (in ²)	29.85
Spacing of Bars in Pier (in)	6.26
f'c (ksi)	4.5
fy (ksi)	60
Unit Wt. of Soil (kcf)	0.11
Unit Wt. of Concrete (kcf)	0.15

Volume of Concrete (yd³) 48.92**Two-Way Shear Action:**

Average d (in)	16.73
ϕv_c (ksi)	0.193
$\phi v_c = \phi(2 + 4/\beta_c)f_c^{1/2}$	0.302
$\phi v_c = \phi(\alpha_s d/b_o + 2)f_c^{1/2}$	0.193
$\phi v_c = \phi 4f_c^{1/2}$	0.201
Shear perimeter, b_o (in)	364.69
β_c	1

One-Way Shear:

ϕV_c (kips)	515.1
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Stability:

Overturning Design Strength (ft-k)	6029.4
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Max. Net Bearing Press. (ksf)	4.10
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Allowable Bearing Pressure (ksf)	3.00
Safety Factor	2.00
Ultimate Bearing Pressure (ksf)	6.00
Bearing Φ_s	0.75

Minimum Pier Diameter (ft)	7.00
Equivalent Square b (ft)	6.20
Square Pier? (Y/N)	N

Recommended Spacing (in)	5 to 12
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Minimum Pier A_s (in ²)	27.71
Recommended Spacing (in)	5 to 12

v_u (ksi)	0.131
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J (in ³)	8.524E+06
c + d (in)	91.17
0.40M _{sc} (ft-kips)	1919.7

V_u (kips)	338.6
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Total Applied M (ft-k)	4863.8
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Pier-Slab Transfer by Flexure:

b_{slab} (ft)	12.25		
ϕM_n (ft-kips)	2909.8	$0.60M_{sc}$ (ft-kips)	2879.6

Pier Design:

ϕV_n (kips)	1034.4	V_u (kips)	36.9
$\phi V_c = \phi 2(1 + N_u / (2000 A_g)) f'_c{}^{1/2} b_w d$	570.5		
V_s (kips)	618.5	*** $V_s \max = 4 f'_c{}^{1/2} b_w d$ (kips)	1514.7
Maximum Spacing (in)	8.71	(Only if Shear Ties are Required)	
Actual Hook Development (in)	15.46	Req'd Hook Development l_{dh} (in) - Tension	12.52
		Req'd Hook Development l_{dc} (in) - Compression	13.50

Flexure in Slab:

ϕM_n (ft-kips)	3028.6	M_u (ft-kips)	2396.9
a (in)	2.21		
Steel Ratio	0.00841		
β_1	0.825		
Maximum Steel Ratio (ρ_t)	0.0197		
Minimum Steel Ratio	0.0018		
Rebar Development in Pad (in)	108.00	Required Development in Pad (in)	34.08

Condition	1 is OK, 0 Fails
Maximum Soil Bearing Pressure	1
Pier Area of Steel	1
Pier Shear	1
Interaction Diagram	1
Two-Way Shear Action	1
One-Way Shear Action	1
Overturning	1
Flexure	1
Steel Ratio	1
Length of Development in Pad	1
Hook Development	1
Anchor Bolt Pullout	1
Anchor Bolt Punching Shear	1

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LPILE for Windows, Version 2019-11.009

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Files Used for Analysis

Path to file locations:
\Program Files (x86)\Ensoft\Lpile2019\files\

Name of input data file:
27-1531-RRM.lp11d

Name of output report file:
27-1531-RRM.lp11o

Name of plot output file:
27-1531-RRM.lp11p

Name of runtime message file:
27-1531-RRM.lp11r

Date and Time of Analysis

Date: October 23, 2026 Time: 14:59:47

Problem Title

Site : MOOREFIELD ROAD, KY

Tower : 160' Monopole

Prepared for : HARMONI TOWERS

Job Number : 27-1531-RRM

Engineer : VK

Program Options and Settings

Computational Options:

- Conventional Analysis

Engineering Units Used for Data Input and Computations:

- US Customary System Units (pounds, feet, inches)

Analysis Control Options:

- Maximum number of iterations allowed = 999
- Deflection tolerance for convergence = 1.0000E-05 in
- Maximum allowable deflection = 100.0000 in
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:

- Static loading specified
- Use of p-y modification factors for p-y curves not selected
- Analysis uses layering correction (Method of Georgiadis)
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected
- Input of moment resistance at the pile tip not selected
- Input of side resistance moment along pile not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:

- Output files use decimal points to denote decimal symbols.
- Report only summary tables of pile-head deflection, maximum bending moment, and maximum shear force in output report file.
- No p-y curves to be computed and reported for user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 27.000 ft
Depth of ground surface below top of pile = 0.5000 ft

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

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

Point No.	Depth Below Pile Head feet	Pile Diameter inches
1	0.000	96.0000
2	27.000	96.0000

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is a round drilled shaft, bored pile, or CIDH pile
Length of section = 27.000000 ft
Shaft Diameter = 96.000000 in
Shear capacity of section = 0.0000 lbs

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians

Pile Batter Angle = 0.000 degrees
= 0.000 radians

Soil and Rock Layering Information

The soil profile is modelled using 7 layers

Layer 1 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 0.500000 ft
Distance from top of pile to bottom of layer = 2.500000 ft
Effective unit weight at top of layer = 115.000000 pcf
Effective unit weight at bottom of layer = 115.000000 pcf
Friction angle at top of layer = 30.000000 deg.
Friction angle at bottom of layer = 30.000000 deg.
Subgrade k at top of layer = 90.000000 pci
Subgrade k at bottom of layer = 90.000000 pci

Layer 2 is sand, p-y criteria by Reese et al., 1974

Distance from top of pile to top of layer = 2.500000 ft
Distance from top of pile to bottom of layer = 4.500000 ft
Effective unit weight at top of layer = 120.000000 pcf
Effective unit weight at bottom of layer = 120.000000 pcf
Friction angle at top of layer = 30.000000 deg.
Friction angle at bottom of layer = 30.000000 deg.
Subgrade k at top of layer = 90.000000 pci
Subgrade k at bottom of layer = 90.000000 pci

Layer 3 is stiff clay without free water

Distance from top of pile to top of layer = 4.500000 ft
Distance from top of pile to bottom of layer = 6.500000 ft
Effective unit weight at top of layer = 105.000000 pcf
Effective unit weight at bottom of layer = 105.000000 pcf
Undrained cohesion at top of layer = 700.000000 psf
Undrained cohesion at bottom of layer = 700.000000 psf
Epsilon-50 at top of layer = 0.010000
Epsilon-50 at bottom of layer = 0.010000

Layer 4 is stiff clay without free water

Distance from top of pile to top of layer = 6.500000 ft
Distance from top of pile to bottom of layer = 8.500000 ft
Effective unit weight at top of layer = 115.000000 pcf

Effective unit weight at bottom of layer = 115.000000 pcf
 Undrained cohesion at top of layer = 1300. psf
 Undrained cohesion at bottom of layer = 1300. psf
 Epsilon-50 at top of layer = 0.007000
 Epsilon-50 at bottom of layer = 0.007000

Layer 5 is stiff clay without free water

Distance from top of pile to top of layer = 8.500000 ft
 Distance from top of pile to bottom of layer = 12.500000 ft
 Effective unit weight at top of layer = 105.000000 pcf
 Effective unit weight at bottom of layer = 105.000000 pcf
 Undrained cohesion at top of layer = 500.000000 psf
 Undrained cohesion at bottom of layer = 500.000000 psf
 Epsilon-50 at top of layer = 0.010000
 Epsilon-50 at bottom of layer = 0.010000

Layer 6 is stiff clay without free water

Distance from top of pile to top of layer = 12.500000 ft
 Distance from top of pile to bottom of layer = 17.800000 ft
 Effective unit weight at top of layer = 115.000000 pcf
 Effective unit weight at bottom of layer = 115.000000 pcf
 Undrained cohesion at top of layer = 1200. psf
 Undrained cohesion at bottom of layer = 1200. psf
 Epsilon-50 at top of layer = 0.007000
 Epsilon-50 at bottom of layer = 0.007000

Layer 7 is stiff clay without free water

Distance from top of pile to top of layer = 17.800000 ft
 Distance from top of pile to bottom of layer = 27.800000 ft
 Effective unit weight at top of layer = 145.000000 pcf
 Effective unit weight at bottom of layer = 145.000000 pcf
 Undrained cohesion at top of layer = 8000. psf
 Undrained cohesion at bottom of layer = 8000. psf
 Epsilon-50 at top of layer = 0.004000
 Epsilon-50 at bottom of layer = 0.004000

(Depth of the lowest soil layer extends 0.800 ft below the pile tip)

**** Warning - Possible Input Data Error ****

Values entered for effective unit weights of soil were outside the limits of 20 pcf to 140 pcf.

The maximum input value, in layer 7, for effective unit weight = 145.00 pcf

This data may be erroneous. Please check your data.

Summary of Input Soil Properties

Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth ft	Effective Unit Wt. pcf	Cohesion psf	Angle of Friction deg.	E50 or krm	kpy pci
1	Sand	0.5000	115.0000	--	30.0000	--	90.0000
	(Reese, et al.)	2.5000	115.0000	--	30.0000	--	90.0000
2	Sand	2.5000	120.0000	--	30.0000	--	90.0000
	(Reese, et al.)	4.5000	120.0000	--	30.0000	--	90.0000

3	Stiff Clay	4.5000	105.0000	700.0000	--	0.01000	--
	w/o Free Water	6.5000	105.0000	700.0000	--	0.01000	--
4	Stiff Clay	6.5000	115.0000	1300.	--	0.00700	--
	w/o Free Water	8.5000	115.0000	1300.	--	0.00700	--
5	Stiff Clay	8.5000	105.0000	500.0000	--	0.01000	--
	w/o Free Water	12.5000	105.0000	500.0000	--	0.01000	--
6	Stiff Clay	12.5000	115.0000	1200.	--	0.00700	--
	w/o Free Water	17.8000	115.0000	1200.	--	0.00700	--
7	Stiff Clay	17.8000	145.0000	8000.	--	0.00400	--
	w/o Free Water	27.8000	145.0000	8000.	--	0.00400	--

Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 2

Load No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, lbs	Compute Top y vs. Pile Length	Run Analysis
1	1	V = 49185. lbs	M = 73985067. in-lbs	66119.	No	Yes
2	1	V = 10589. lbs	M = 15928400. in-lbs	41267.	No	Yes

V = shear force applied normal to pile axis

M = bending moment applied to pile head

y = lateral deflection normal to pile axis

S = pile slope relative to original pile batter angle

R = rotational stiffness applied to pile head

Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).

Thrust force is assumed to be acting axially for all pile batter angles.

Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section	=	27.000000 ft
Shaft Diameter	=	96.000000 in
Concrete Cover Thickness (to edge of long. rebar)	=	3.625000 in
Number of Reinforcing Bars	=	54 bars
Yield Stress of Reinforcing Bars	=	60000. psi
Modulus of Elasticity of Reinforcing Bars	=	29000000. psi
Gross Area of Shaft	=	7238. sq. in.
Total Area of Reinforcing Steel	=	68.405510 sq. in.
Area Ratio of Steel Reinforcement	=	0.95 percent
Edge-to-Edge Bar Spacing	=	3.816510 in
Maximum Concrete Aggregate Size	=	0.750000 in
Ratio of Bar Spacing to Aggregate Size	=	5.09

Offset of Center of Rebar Cage from Center of Pile = 0.0000 in

Axial Structural Capacities:

Nom. Axial Structural Capacity = $0.85 F_c A_c + F_y A_s$ = 31528.907 kips
Tensile Load for Cracking of Concrete = -3385.459 kips
Nominal Axial Tensile Capacity = -4104.331 kips

Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	1.270000	1.266769	43.740000	0.00000
2	1.270000	1.266769	43.444246	5.077904
3	1.270000	1.266769	42.560983	10.087138
4	1.270000	1.266769	41.102155	14.959961
5	1.270000	1.266769	39.087492	19.630476
6	1.270000	1.266769	36.544237	24.035523
7	1.270000	1.266769	33.506784	28.115530
8	1.270000	1.266769	30.016209	31.815323
9	1.270000	1.266769	26.119717	35.084868
10	1.270000	1.266769	21.870000	37.879951
11	1.270000	1.266769	17.324529	40.162773
12	1.270000	1.266769	12.544773	41.902461
13	1.270000	1.266769	7.595371	43.075491
14	1.270000	1.266769	2.543255	43.665999
15	1.270000	1.266769	-2.543255	43.665999
16	1.270000	1.266769	-7.595371	43.075491
17	1.270000	1.266769	-12.544773	41.902461
18	1.270000	1.266769	-17.324529	40.162773
19	1.270000	1.266769	-21.870000	37.879951
20	1.270000	1.266769	-26.119717	35.084868
21	1.270000	1.266769	-30.016209	31.815323
22	1.270000	1.266769	-33.506784	28.115530
23	1.270000	1.266769	-36.544237	24.035523
24	1.270000	1.266769	-39.087492	19.630476
25	1.270000	1.266769	-41.102155	14.959961
26	1.270000	1.266769	-42.560983	10.087138
27	1.270000	1.266769	-43.444246	5.077904
28	1.270000	1.266769	-43.740000	0.00000
29	1.270000	1.266769	-43.444246	-5.077904
30	1.270000	1.266769	-42.560983	-10.087138
31	1.270000	1.266769	-41.102155	-14.959961
32	1.270000	1.266769	-39.087492	-19.630476
33	1.270000	1.266769	-36.544237	-24.035523
34	1.270000	1.266769	-33.506784	-28.115530
35	1.270000	1.266769	-30.016209	-31.815323
36	1.270000	1.266769	-26.119717	-35.084868
37	1.270000	1.266769	-21.870000	-37.879951
38	1.270000	1.266769	-17.324529	-40.162773
39	1.270000	1.266769	-12.544773	-41.902461
40	1.270000	1.266769	-7.595371	-43.075491
41	1.270000	1.266769	-2.543255	-43.665999
42	1.270000	1.266769	2.543255	-43.665999
43	1.270000	1.266769	7.595371	-43.075491
44	1.270000	1.266769	12.544773	-41.902461
45	1.270000	1.266769	17.324529	-40.162773
46	1.270000	1.266769	21.870000	-37.879951
47	1.270000	1.266769	26.119717	-35.084868
48	1.270000	1.266769	30.016209	-31.815323
49	1.270000	1.266769	33.506784	-28.115530
50	1.270000	1.266769	36.544237	-24.035523
51	1.270000	1.266769	39.087492	-19.630476
52	1.270000	1.266769	41.102155	-14.959961
53	1.270000	1.266769	42.560983	-10.087138
54	1.270000	1.266769	43.444246	-5.077904

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

Minimum spacing between any two bars not equal to zero = 3.817 inches
between bars 50 and 51.

Ratio of bar spacing to maximum aggregate size = 5.09

Concrete Properties:

Compressive Strength of Concrete	=	4500. psi
Modulus of Elasticity of Concrete	=	3823676. psi
Modulus of Rupture of Concrete	=	-503.115295 psi
Compression Strain at Peak Stress	=	0.002001
Tensile Strain at Fracture of Concrete	=	-0.0001152
Maximum Coarse Aggregate Size	=	0.750000 in

Number of Axial Thrust Force Values Determined from Pile-head Loadings = 2

Number	Axial Thrust Force kips
1	41.267
2	66.119

Summary of Results for Nominal Moment Capacity for Section 1

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

Load No.	Axial Thrust kips	Nominal Mom. Cap. in-kip	Max. Comp. Strain
1	41.267	165158.351	0.00300000
2	66.119	166008.669	0.00300000

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

In ACI 318, the value of the strength reduction factor depends on whether
the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.75).

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

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

Axial Load No.	Resist. Factor	Nominal Ax. Thrust kips	Nominal Moment Cap in-kips	Ult. (Fac) Ax. Thrust kips	Ult. (Fac) Moment Cap in-kips	Bend. Stiff. at Ult Mom kip-in^2
1	0.65	41.266667	165158.	26.823333	107353.	3.8295E+09
2	0.65	66.118519	166009.	42.977037	107906.	3.8511E+09
1	0.75	41.266667	165158.	30.950000	123869.	3.6930E+09
2	0.75	66.118519	166009.	49.588889	124507.	3.7147E+09
1	0.90	41.266667	165158.	37.140000	148643.	2.4481E+09
2	0.90	66.118519	166009.	59.506667	149408.	2.4645E+09

Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head ft	Equivalent Top Depth Below Grnd Surf ft	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer lbs	F1 Integral for Layer lbs
1	0.5000	0.00	N.A.	No	0.00	14938.
2	2.5000	2.0000	Yes	No	14938.	48422.
3	4.5000	3.3425	No	No	63361.	44682.
4	6.5000	3.2064	Yes	No	108042.	75390.
5	8.5000	10.2289	Yes	No	183433.	104365.
6	12.5000	8.2404	Yes	No	287797.	240477.
7	17.8000	2.6611	Yes	No	528275.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, lbs, and Load 2 = Moment, M, in-lbs
Load Type 2: Load 1 = Shear, V, lbs, and Load 2 = Slope, S, radians
Load Type 3: Load 1 = Shear, V, lbs, and Load 2 = Rot. Stiffness, R, in-lbs/rad.
Load Type 4: Load 1 = Top Deflection, y, inches, and Load 2 = Moment, M, in-lbs
Load Type 5: Load 1 = Top Deflection, y, inches, and Load 2 = Slope, S, radians

Load Case No.	Load Type	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading lbs	Pile-head Deflection inches	Pile-head Rotation radians	Max Shear in Pile lbs	Max Moment in Pile in-lbs
1	V, lb	49185.	M, in-lb	7.40E+07	66119.	14.9978	-0.06041	-729021.	7.59E+07
2	V, lb	10589.	M, in-lb	1.59E+07	41267.	0.06316	-3.44E-04	-160198.	1.65E+07

Maximum pile-head deflection = 14.9977846724 inches
Maximum pile-head rotation = -0.0604131248 radians = -3.461417 deg.

The analysis ended normally.

IBC 1807.3.2.1

Moment (ft·k)	4,624.07	
Shear (k)	36.89	
Caisson diameter (ft)	7	
Caisson height above ground (ft)	0.5	
Caisson height below ground (ft)	23	
Lateral soil pressure (lb/ft ²)	549.13	
Ground to application of force, h (ft)	125.85	
Applied lateral force, P (lb)	36,889	
Lateral soil bearing pressure, S ₁ (lb/ft)	4,210.00	
Diameter, b (ft)	7	
A	2.93	$= (2.34P)/(S_1 b)$
Minimum depth of embedment, d (ft)	21.56	$= 0.5A[1 + (1 + (4.36h / A))^{1/2}]$

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
View	4002000	1GLOBAL Operations (US) Inc.	Cellular	D	Durham	NC
View	4115150	ACN Communication Services, LLC dba Flash Wireless dba Flash Mobile	Cellular	D	Charlotte	NC
View	4115750	Affiniti Ventures, Inc.	Cellular	D	New York	NY
View	4113600	AFNET, LLC	Cellular	D	Alpharetta	GA
View	4108300	Air Voice Wireless, LLC d/b/a AirTalk Wireless	Cellular	A	Houston	TX
View	4115200	Airespring, Inc.	Cellular	D	Clearwater	FL
View	4111900	ALLNETAIR, INC.	Cellular	D	West Palm Beach	FL
View	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
View	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
View	4107800	American Broadband and Telecommunications Company	Cellular	B	Toledo	OH
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	Jupiter	FL
View	4115050	Aquarius Silver LLC	Cellular	D	Sheridan	WY
View	4105700	Assurance Wireless USA, L.P.	Cellular	D	Atlanta	GA
View	4116450	Atomic Mobile, Inc.	Cellular	D	Spring Lake	NJ
View	4113100	BARK TECHNOLOGIES, INC.	Cellular	D	Kaysville	UT
View	4108600	BCN Telecom, Inc.	Cellular	D	Boca Raton	FL
View	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	Richfield	MN
View	4116500	Best Networks, Inc dba Pronto Mobile	Cellular	D	Lewes	DE
View	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
View	4107600	Boomerang Wireless, LLC	Cellular	B	Kennett Square	PA
View	4112000	Boost SubscriberCo, L.L.C.	Cellular	A	Littleton	CO
View	4116800	Brick Phone, Inc.	Cellular	C	Brooklyn	NY
View	4115500	CALL CENTERS INDIA INCORPORATED d/b/a Blueconnects	Cellular	D	New York	NY
View	4116700	Carrier Pigeon, LLC	Cellular	C	Kennett Square	PA
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	Phoenixville	PA
View	4116350	Compax MVNO Venture, Inc.	Cellular	D	Hillsboro	OR
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	4116850	Culture Wireless Group, Inc.	Cellular	C	Atlanta	GA
View	4114000	Daywalker Mobile Inc.	Cellular	D	Bartlesville	OK
View	4116950	Diez Mobile US, Inc.	Cellular	C	Cambridge	MA
View	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
View	4111800	Earthlink, LLC	Cellular	D	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	4112400	Excess Telecom Inc.	Cellular	D	Las Vegas	NV
View	4116100	Fierce Data Solutions, LLC	Cellular	D	Las Vegas	NV
View	4116050	Flex Mobile, Inc.	Cellular	D	Las Vegas	NV
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Reston	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	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	4116650	INSTABRIDGE, INC.	Cellular	C	Chigaco	IL
View	4117000	Instructional Telecommunications Foundation, Inc. dba Mission Telecom	Cellular	C	Englewood	CO
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	4116900	Kind Wireless LLC	Cellular	C	Kennett Square	PA
View	4112200	Lexvor Inc.	Cellular	D	Irvine	CA
View	4111250	Liberty Mobile Wireless, LLC	Cellular	D	Sunny Isles Beach	FL
View	4111400	Locus Telecommunications, LLC	Cellular	B	Teaneck	NJ
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4112500	Marconi Wireless Holdings, LLC	Cellular	C	West Palm Beach	FL
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	Bellevue	WA
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	4116750	OXIO Corpation	Cellular	C	New York	NY
View	4109050	Patriot Mobile LLC	Cellular	A	Grapevine	TX
View	4116150	Peak Data Solutions, LLC	Cellular	D	Camden	DE
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	Olivette	MO
View	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
View	4112800	Prepaid Wireless Group, LLC dba Prepaid Wireless Wholesale	Cellular	D	Rockville	MD
View	4114350	PRESTO WIRELESS Corp.	Cellular	D	Fair Lawn	NJ
View	4107700	Puretalk Holdings, Inc.	Cellular	C	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
View	4116600	Qikfox Cybersecurity Systems, Inc.	Cellular	C	San Mateo	CA
View	4115900	RABONA CORPORATION	Cellular	D	New York	NY
View	4113200	Red Pocket Inc.	Cellular	D	Thousand Oaks	CA
View	4116000	Ringer Mobile, LLC	Cellular	D	Peachtree Corners	GA
View	4116400	Rizz Wireless LLC	Cellular	D	San Francisco	CA
View	4114200	Rocstar 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	D	Los Angeles	CA
View	4113050	Sarver Corporation	Cellular	D	Rancho Cucamonga	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	B	Fremont	NE
View	4116550	Smartless Mobile, LLC	Cellular	D	Culver City	CA
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	D	Layton	UT
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	Houston	TX
View	4115850	TELCO Communications LLC dba TELCO CELLULAR	Cellular	D	Oceanside	NY
View	4116200	Telco Papa Ltd	Cellular	D	Palo Alto	CA
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	D	Bartlett	TN
View	4103300	Touchtone Communications, Inc.	Cellular	D	Cedar Knolls	NJ
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	4116300	US Mobile, Inc.	Cellular	A	New York	NY
View	4115800	USA Mobile LLC	Cellular	D	Laguna Beach	CA
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	D	Costa Mesa	CA
View	10630	Verizon Americas LLC dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4104200	Verizon Value, Inc.	Cellular	D	Miami	FL
View	4110800	Visible Service LLC	Cellular	C	Basking Ridge	NJ
View	4115700	Viva-US Communications, Inc.	Cellular	D	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	4115250	WHOOP MOBILE INC.	Cellular	D	Melbourne	FL
View	4106500	WiMacTel, Inc.	Cellular	D	San Antonio	TX
View	4110950	Wing Tel Inc.	Cellular	C	New York	NY
View	4113650	XCHANGE TELECOM LLC	Cellular	D	Brooklyn	NY
View	4116250	Yonder Media Mobile Inc. dba Yo Mobile	Cellular	D	Bronx	NY
View	4112150	Zefcom, LLC	Cellular	D	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.
2026-ASO-5607-OE

Issued Date: 06/09/2026

HARMONI TOWERS GATEWAY, LLC-JACKIEB
JACQUELINE BROWN
6210 Ardrey Kell Road
Suite 375
Charlotte, NC 28277

**** 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: Monopole KY0007119 Moorefield Rd
County, State: Nicholas, Kentucky

Collected Point(s):

Label	Latitude	Longitude	SE	DET AGL	AMSL
pt-1	38-17-49.37N	83-57-05.48W	1006 Ft	164 Ft	1170 Ft

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.**

See attachment for additional condition(s) or information.

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

This determination expires on 12/09/2027 unless:

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

6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

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

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

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

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

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

If we can be of further assistance, please contact our office at 1-817-222-5915, or Rodney.H-CTR.Love@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2026-ASO-5607-OE.

Signature Control No: 696821012-708871489

(DNE)

Rodney Love
Technician

Attachment(s)
Additional Information
Frequency Data
Map(s)

cc: FCC

BASIS FOR DECISION:

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.

The FAA recognizes emissions in the 3.7-3.98 GHz band at this location will result in Electromagnetic Interference (EMI) as described in Airworthiness Directives (AD) 2021-23-12 and 2021-23-13. NAS services including airport and helicopter operations within a radius of 42 NM will be impacted by 5G RF emissions. Operational use of this frequency band is not objectionable provided the Wireless Providers obtain and adhere to the parameters established by the FAA 5G C band compatibility evaluation process.

Frequency Data for ASN 2026-ASO-5607-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
6	7	GHz	42	dBW
6	7	GHz	55	dBW
10	11.7	GHz	42	dBW
10	11.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
21.2	23.6	GHz	42	dBW
21.2	23.6	GHz	55	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	824	MHz	500	W
806	901	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W
3700	3980	MHz	1640	W
3700	3980	MHz	3280	W



EXHIBIT F

**KENTUCKY AIRPORT ZONING COMMISSION
DOCUMENTATION**

Jacob Proctor

From: Airport Zoning Commission <AirportZoning@ky.gov>
Sent: Tuesday, July 21, 2026 9:27 PM
To: Joseph Rivera; Airport Zoning Commission
Subject: KAZC Approval/Permit not Required - Cell Tower Build: KY0007119 / Moorefield Road / P-033001 - KAZC Approval / FAA Approval 2026-ASO-5607-OE

CAUTION: This email is from outside the organization

EXTERNAL EMAIL - This email was sent by a person from outside your organization. Exercise caution when clicking links, opening attachments or taking further action, before validating its authenticity.

Joseph,

Thank you for checking on this location and height.
The location and height are not in KAZC's jurisdiction, and no KAZC Approval or Permit is required.

Aeronautical Study Result

The structure is not in KAZC's jurisdiction and does not require a permit.

Structure's Coordinates: 38°17'46.37"N, 83°57'5.48"W

Structure's Height : 164 ft.

User-submitted ground elevation is 990 ft.

DEM's ground elevation is 989.04 ft (KYAPED 2-FT DEM Phase 2).

Contact us if you have any questions or require additional information.

Regards,



Anthony Adams
KY AIRPORT ZONING
COMMISSION, ADMINISTRATOR
Department of Aviation
90 Airport Road, Bldg 400
Frankfort, Kentucky 40601
(502) 564-0151 office
(502) 330-4022 mobile
[Airport Zoning Commission | KYTC](#)

From: Joseph Rivera <joseph.rivera@harmonitowers.com>
Sent: Tuesday, July 21, 2026 2:13 PM
To: Airport Zoning Commission <AirportZoning@ky.gov>
Subject: Cell Tower Build: KY0007119 / Moorefield Road / P-033001 - KAZC Approval / FAA Approval 2026-ASO-5607-OE

****CAUTION** PDF attachments may contain links to malicious sites. Please contact the COT Service Desk ServiceCorrespondence@ky.gov for any assistance.**

Hello Anthony Adams,

I would like to file for KAZC approval for a proposed cell tower. It's my understanding that due to the tower height, approval may not be required. Please confirm. I have attached the FAA approval as reference.

1. Harmoni Towers LLC – 6210 Ardrey Kell Road, Suite 450, Charlotte, NC 28277
2. Requester Contact: Joseph Rivera : (616) 308-9731
3. Work Schedule: 2/1/2027 – 5/15/2027
4. Lat/Long: 38° 17' 46.37" N, 83° 57' 5.48" W
5. Site Elevation: 1006'
6. Tower Height: 164'
7. On Site Contact: Josh Supak 681.285.5620

Thank you,

Joe Rivera

PM Consultant

C 616-308-9731

joseph.rivera@harmonitowers.com



This e-mail and any files transmitted with it are confidential and intended solely for the use of the individual or individuals to whom the e-mail is addressed. This e-mail and any files transmitted with it may contain confidential, proprietary or legally privileged information. No confidentiality or privilege is waived or lost by any mistransmission. If you are not the intended recipient of this e-mail, please immediately notify the sender and delete and/or destroy the e-mail (along with any files transmitted with it) and all electronic or hard copies from your system. You should not, directly or indirectly, use, disclose, distribute, print, or copy any part of this message if you are not the intended recipient.

EXHIBIT G
GEOTECHNICAL REPORT

GEOTECHNICAL REPORT OF SUBSURFACE INVESTIGATION

September 17, 2026

**Proposed Monopole
Moorefield Road
(KY0007119)**

**Cane Run Road
Carlisle, KY 40311**

38.297047222, -83.95152222

Prepared for:

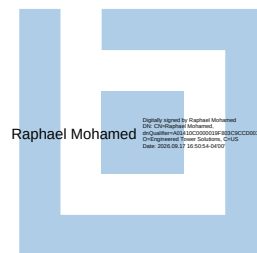
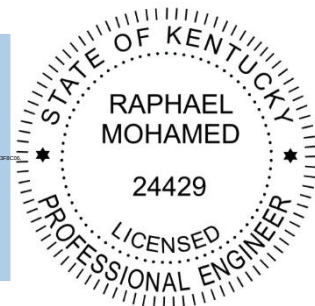


Prepared by:



A handwritten signature in black ink that reads "Matt Nesbit".

Matt Nesbit, P.E.
Geotechnical Engineer II



Raphael Mohamed, P.E.
Registered KY-24429

Reviewed by: Jorge Varela, P.E.
Senior Geotechnical Engineer

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

Project Summary

Item	Description
Project Description	A geotechnical exploration and report have been prepared for this Proposed 160-ft Monopole with 4-ft lighting arrestor. Included in this report are the results of the field exploration and the recommendations for the design of the foundation system.
Site Coordinates	Latitude: 38.297047222222, Longitude: -83.951522222222
Site Condition	The proposed tower will be installed at Cane Run Road, Carlisle, KY 40311 United States
Frost Depth	Based on the TIA Standard TIA-222-I, dated October 2023, the recommended design frost penetration depth to be used for Nicholas County, KY is 20-inches.
Groundwater	Groundwater was not encountered at the time of drilling. Please note that subsurface water levels will fluctuate with seasonal and cyclical temperatures and precipitation and can be higher or lower at other times.
Proposed Foundation	We assume the proposed foundation will be supported with Either Pad and Pier or Drilled Shaft.

Field Exploration

Item	Description
Date	9/14/2026
Number of Borings	1
Location	Latitude: 38.2970472222222, Longitude: -83.9515222222222
Equipment Used	Mobile B-51
Advancement Method	Hollow Stem Auger (HSA)
Sampling Method	ASTM D-1586 with 1.5 I.D. Split Spoon Sampler

Laboratory Classification and Testing

Standard	Description
ASTM D2488	Standard Practice for Description and Identification of Soils
ASTM G187	Standard Test Method for Measurement of Soil Resistivity Using the Two-Electrode Soil Box Method

Subsurface Profile

Based on the results of our borings, the soils beneath the surface can be summarized in the table below:

Material Encountered	Approximate Depth to Bottom of Stratum	Description	Consistency / Density
SAND	4	Brown and gray, moist clayey sand	Medium Dense
CLAY	17.3	Brown and gray, moist sandy lean and fat clay	Firm to Stiff
LIMESTONE	27.3	Moderately weathered and fractured limestone	--

Detailed descriptions of conditions encountered at each exploration point are indicated on the individual logs in the Appendix B. Stratification boundaries on the boring logs represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual.

Groundwater was not encountered at the time of drilling. Groundwater levels will fluctuate with seasonal and climatic changes and may be different at other times.

Earthwork Recommendations – Equipment Mat

Earthwork is anticipated to include excavations and fill placement. The following sections provide recommendations for use in the preparation of the equipment mat foundation area and access drive.

Site Preparation

The subgrade should be evaluated under the direction of the Geotechnical Engineer. Areas where soft material are present or excessively wet or dry material should either be removed, or moisture conditioned and recompacted.

Fill Material Types

Soil Type	USCS Classification	Acceptable Parameters (for Structural Fill)
Imported Low- to Moderate- Plasticity Soil ²	CL, ML, SC or SM	All locations and elevations
Sand / Gravel with greater than 12% fines	GW/GP, SW/SP	Crushed stone base course may be used for the access roadway or beneath shallow foundations as a replacement material for overexcavated soils.
Near-Surface On-site soils ²	SC, CL	On-site soils generally appear suitable for use as fill when they contain at least 12% fines (clay and/or silt) and are compacted at an appropriate moisture content.

1. Controlled, compacted fill should consist of approved materials that are free of organic matter and debris. A sample of each material type should be submitted to the geotechnical engineer for evaluation.
2. Low- to moderate-plasticity cohesive soil or granular soil having at least 12% fines

Fill Compaction Requirements

Item	Structural Fill	General Fill
Maximum Lift Thickness	8 inches or less in loose thickness when heavy, self-propelled compaction equipment is used	Same as Structural fill
Minimum Compaction Requirements ^{1, 2}	98% of max. below foundations and within 1 foot of finished pavement subgrade 95% of max. above foundations, below floor slabs, and more than 1 foot below finished pavement subgrade	92% of max.
Water Content Range ¹	Low plasticity cohesive: -2% to +3% of optimum High plasticity cohesive: 0 to +4% of optimum Granular: -3% to +3% of optimum	As required to achieve min. compaction requirements

1. Maximum density and optimum water content as determined by the standard Proctor test (ASTM D 698).
2. High plasticity cohesive fill should not be compacted to more than 100% of standard Proctor maximum dry density.

Excavations

Groundwater was not encountered at the time of drilling. Although not expected, if encountered in deep trench excavations during construction, groundwater or perched groundwater will require dewatering until backfilling operations are complete.

All excavations that may be required should, at a minimum, comply with applicable local, state and federal safety regulations, including the current OSHA Excavation and Trench Safety Standards to provide stability and safe working conditions.

Slopes

For permanent slopes in unreinforced compacted fill areas, we recommend maximum configurations of 3:1 (Horizontal: Vertical) for the cohesive soils (clay) found at the site.

If steeper slopes are required for site development, stability analyses should be completed to design the grading plan. The face of all slopes should be compacted to the minimum specification for fill embankments. Fill slopes should be overbuilt and trimmed to compacted material.

Highly Plastic Soils

Highly plastic soils were encountered in the exploration. Highly plastic soils are prone to **shrink-swell behavior** with fluctuations in moisture content which can cause distress in pavements, slabs, and foundations. Two feet of vertical separation should be created between the existing highly plastic near surface soils and final design subgrades. This can be accomplished by over-excavation and replacement, raising site grades or a combination of both. Fill or backfill used to create the recommended separation should consist of imported low to moderate plasticity soil with at least 20% fines (silt and clay).

Earthwork Construction Considerations

The near-surface, on-site soils will lose strength when exposed to moisture. To the extent practical, earthwork should be performed during drier periods of weather. Increased remedial measures due to wet and soft or otherwise unsuitable conditions should be expected if earthwork is performed during colder and wetter periods of weather.

A qualified geotechnical engineer should be retained during the earthwork phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; to monitor proof-rolling, placement and compaction of controlled compacted fills, and backfilling of excavations to the completed subgrade.

Foundations Recommendations

The following recommendations are made based on our review of the test boring data and our past experience with similar projects and subsurface conditions. Ultimate soil strength parameters are presented on table below.

Ultimate Strength Parameters

Boring #	Depth (ft)	Unified Soil Classification	Total Unit Weight (pcf)	Friction Angle (degrees)	Cohesion (psf)
B-1	0.0 – 2.0	SC	115	30	--
	2.0 – 4.0	SC	120	30	--
	4.0 – 6.0	CL	105	--	700
	6.0 – 8.0	CL	115	--	1,300
	8.0 – 12.0	CH	105	--	500
	12.0 – 17.3	CH	115	--	1,200
	17.3 – 27.3	LIMESTONE	145	--	10,000

1. Groundwater was not encountered at the time of drilling.

Modulus of Subgrade Reaction

A vertical and horizontal modulus of subgrade reaction may be derived using the following equations and soils parameters expressed in the above table:

$$k_{s-v} = 12 \cdot SF \cdot q_a$$

$$k_{s-h} = k_{s-v} \cdot B$$

Where:

q_a = Allowable Bearing Capacity (ksf) k_{s-v} = Vertical Modulus of Subgrade Reaction (kcf)
 SF = Safety Factor k_{s-h} = Horizontal Modulus of Subgrade Reaction (ksf)
 B = Base width (ft), use 1 if $B < 1$ ft

Caisson (Drilled Shaft)

Should caissons (drilled shafts) be used, the caissons (drilled shafts) will achieve compressive (downward) and tensile (uplift) resistance through skin friction along the sides of the shafts. In addition to skin friction, bearing resistance at the caisson's tip will contribute to compressive capacity. We recommend the values given the table below be used for this project. Please note the tip bearing capacity and skin frictions are net ultimate and ultimate values respectively. Appropriate factors of safety or resistance factors should be used. Lateral loads can be resisted by the lateral stiffness of the soil. Parameters for analysis of the laterally loaded caisson are also given the table below.

Caisson (Drilled Shaft) Parameters

Depth (ft)	Net Ultimate Tip Bearing Capacity (ksf)	Ultimate Skin Friction¹ (ksf)	Lateral Modulus (pci)	E₅₀ (in/in)
0.0 – 2.0	--	--	--	--
2.0 – 4.0	--	0.2	90	--
4.0 – 6.0	--	0.4	100	0.01
6.0 – 8.0	--	0.7	500	0.007
8.0 – 12.0	--	0.3	100	0.01
12.0 – 17.3	11	0.6	500	0.007
17.3 – 27.3	40	2.5	2,000	--

1. We recommend the skin friction be ignored for the top 3 ft of the caisson

Based on the subsurface soil conditions, excavations for the caissons (drilled shafts) should be possible using a large, truck-mounted, hydraulic-advanced drill rig. All debris, loose or disturbed soil should be removed from the excavation prior to placing reinforced steel and/or concrete. Reinforcing steel and/or concrete should be placed immediately upon completion of the excavation.

The excavations may be susceptible to caving. Drilling fluid or casing could be used to assist in keeping the drilled hole open. If casing is used, we recommend it be removed from the excavation as concrete is being placed. Continuous vibration or other approved methods should be used during casing withdrawal to reduce the potential for void-space formation within the concrete. If water is

present during concrete placement and/or drilling fluids are used to maintain hole stability, concrete should be pumped or otherwise discharged to the bottom of the hole via a hose or tremie pipe. The end of the hose or tremie pipe must remain below the top surface of any water, drilling fluid and the in-place concrete at all times. Additionally, concrete should be consolidated using vibration methods over the entire length and width of the caissons and the consolidation should be performed only after these fluids are removed and to the extent possible.

Pad & Pier / Single Mat Foundation

If the site has been prepared in accordance with the requirements noted in *Earthwork Recommendations – Equipment Mat*, the tower’s foundation capacity can be determined using the soil’s bearing capacity, passive pressure resistance, and a sliding friction factor.

Net Ultimate Bearing Capacity and Sliding Friction Factor

Depth² (ft)	Net Ultimate Bearing Capacity¹ (psf)	Sliding Friction Factor¹
0.0 – 2.0	--	--
2.0 – 8.0	6,000	0.30
8.0 – 15.0	4,500	

1. This value is a net ultimate value and an appropriate factor of safety or resistance factor should be used
2. Two (2) feet of separation needs to be maintained between the highly plastic soils and the bottom of the foundation.

Ultimate Passive Pressure and Friction Factor

Boring #	Depth (ft)	Ultimate Passive Pressure ¹ (psf) ¹
B-1	0.0 – 2.0	0 - 600
	2.0 – 4.0	600 – 1,200
	4.0 – 8.0	1,200 – 2,000
	8.0 – 12.0	2,000 – 2,800
	12.0 – 20.0	2,800 – 4,400

1. Ultimate passive pressure can be interpolated for foundation depths with the depth ranges given

Seismic Parameters

The seismic design requirements for buildings and other structures are based on Seismic Design Category. Site Classification is required to determine the Seismic Design Category for a structure. The Site Classification is based on the upper 100 feet of the site profile defined by a weighted average value of either shear wave velocity, standard penetration resistance, or undrained shear strength in accordance with Section 20.4 of ASCE 7 and the International Building Code (IBC)

Seismic Site Classification

Item	Seismic Parameter
2024 International Building Code Seismic Site Classification	D ¹
Design Spectral Response Acceleration Parameters	S _{ds} = 0.21g S _{d1} = 0.13g

1. The IBC seismic site classification is based on the subsurface profile depth of 100 feet. The scope of work did not authorize exploration to a depth of 100 feet. A seismic Site Soil Classification of D should be used if insufficient details are known about the 100-foot soil profile.

Soil Resistivity

Laboratory soil resistivity test were conducted according to procedures designated in ASTM G187 and test results are presented in the following table. Soil resistivity values will vary with temperature and moisture content changes and may be different at other times.

Soil Resistivity Testing Results

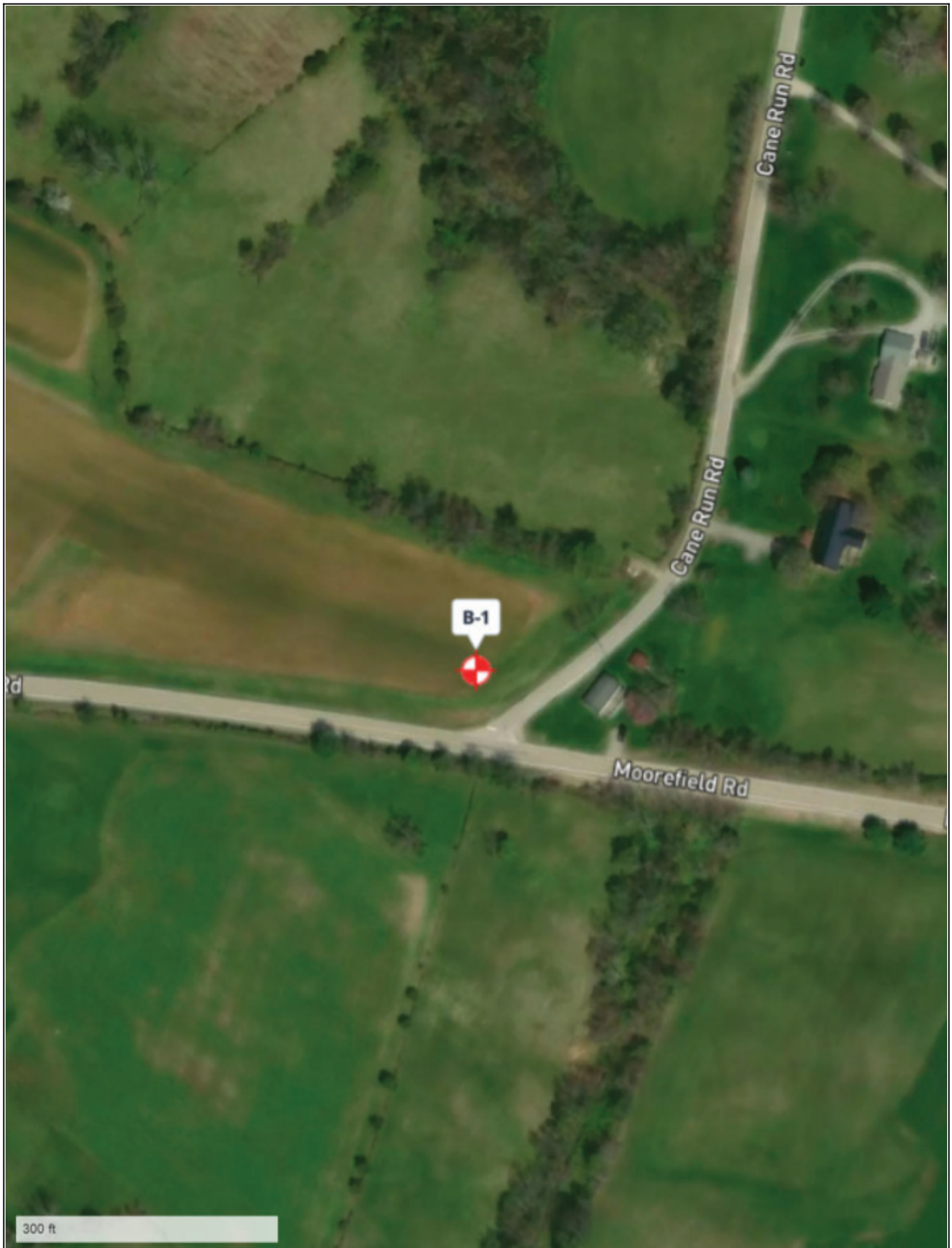
Boring	Sample Depth (ft)	Resistivity (Ohm-cm)
B-1	2.0 – 4.0	20,000

LIMITATIONS OF REPORT

This report has been prepared in accordance with generally accepted geotechnical engineering practices for the specific application of this project. The conclusions in this report are based on the applicable standards of our practice in this geographic area at the time this report was prepared. No other warranty, expressed or implied, is made.

The analyses and conclusions submitted herein are based, in part, upon the data obtained from the subsurface exploration performed for this analysis. The soil and ground water conditions can vary across the site. Opinions and conclusions are subject to change if new or additional information is submitted for review.

ATTACHMENTS



Date: 9/17/2026	Drafted By: Matt Nesbit	Moorefield Road Site Plan Cane Run Rd, Carlisle, KY 40311, USA	
Project ID: 26148997	Reviewed by: Jorge Varela		



Engineered Tower Solutions
3227 Wellington Court, Raleigh NC 27615

Geotechnical Log - Borehole

B-1

Latitude : 38.29705
Longitude : -83.95152
Ground Elevation : 1005.61 (ft)
Total Depth : 27.33 Ft BGL

Drill Rig : Mobile B-51
Logged By : Matt Nesbit
Sample Method : Hollow-Stem Auger
Date : 09/14/2026

Job Number : 26148997
Client : EBI Consulting
Project : Moorefield Road
Location : Cane Run Rd, Carlisle, KY 40311, USA
Groundwater Depth : No groundwater encountered

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE		BLOW COUNTS (N VALUE)	RQD (%)	RECOVERY (IN.)
			TYPE	NUMBER			
10		CLAYEY SAND (SC), brown and gray, moist, medium dense.	X	SS-1	4-6-7 N = 13		
			X	SS-2	10-7-8 N = 15		
		SANDY LEAN CLAY (CL), brown and gray, moist, firm to stiff.	X	SS-3	4-4-3 N = 7		
			X	SS-4	3-5-8 N = 13		
		SANDY FAT CLAY (CH), gray and orange, moist, firm to stiff.	X	SS-5	2-2-3 N = 5		
			X	SS-6	2-8-4 N = 12		
20		Limestone (Lime): Moderately Weathered and Fractured, Gray.		RC-1		35	57
				RC-2		62	59

B-1 Terminated at 27.33 Ft



Date: 9/17/2026	Drafted By: Matt Nesbit	Moorefield Road Drill Rig Photo Cane Run Rd, Carlisle, KY 40311, USA	
Project ID: 26148997	Reviewed by: Jorge Varela		

EXHIBIT H

DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at 125 E Main St., Carlisle, KY 40311, travel southeast towards S Broadway St. for approximately 0.4 miles.
2. Continue onto KY-36 E / Moorefield Road and travel approximately 4.5 miles.
3. Turn left onto State Hwy 928 / Cane Run Road.
4. Site is on the left at Cane Run Road, Carlisle, KY 40311.
5. The site coordinates are
 - a. North 38 deg 17 min 49.37 sec
 - b. West 83 deg 57 min 05.48 sec



Prepared by:
Jacob Proctor
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

Site ID: KY0007119
Site Name: Moorefield Road
Location No.: MDG 5000929139

LEASE AGREEMENT

THIS LEASE AGREEMENT ("Agreement or Lease"), dated as of the latter of the signature dates below (the "Effective Date"), is entered into by Kimberly Rawlings, Trustee, or her successor in trust or assigns, as _____ Living Trust Dated July 1, 2025, having a mailing address of _____ ("Landlord"), and Harmoni Towers Gateway LLC, a Delaware company, having a mailing address of 6210 Adrey Kell Road, Suite 375, Charlotte, North Carolina 28277 ("Tenant").

BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, as described on **Exhibit 1**, together with all rights and privileges arising in connection therewith, located at 3233 Moorefield Road, in the City of Carlisle, County of Nicholas, State of Kentucky (collectively, the "**Property**"). Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

1. LEASE.

(a) Landlord grants to Tenant and Tenant hereby leases from Landlord under the terms and conditions set forth herein a certain portion of the Property containing approximately 10,000 square feet including the air space above such ground space, as described on attached **Exhibit 1**, (the "**Premises**"), for the placement of a Communication Facility in accordance with the terms of this Agreement, together with an easement, or easements, for and any access/ingress, egress, utilities, fiber, easements, guy wire/anchor easements and/or utility easements and any other easements required by the local governing authorities, including, without limitation, a landscape buffer or "Fall Zone" (if applicable), for the duration of the lease on the property which is more particularly, (the "**Easements**"), for the placement of a Communication Facility, collectively all as described on attached **Exhibit 1** attached hereto and made a part hereof. The Easement rights herein granted include the right and authority of Tenant to grant or assign to third parties all or some of the easement rights granted to the Tenant herein without additional consideration paid to Landlord.

(b) During the Due Diligence Period and during the Term, 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, radio frequency testing 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 and include, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively, the "**Government Approvals**"), initiate the ordering and/or scheduling of necessary utilities, 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, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use, all at Tenant's expense. 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 inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Effective Date, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted. Any such Tests as referenced herein shall not be deemed 'commencement of construction' for purposes of establishing the Rent Commencement Date (as hereinafter defined).

(c) Within thirty (30) business days following the Effective Date, Tenant shall pay the Landlord the sum of [REDACTED] (the "Due Diligence Fee") for a one (1) year period commencing on the Effective Date (the "Initial Due Diligence Period"). The Initial Due Diligence Period may be renewed by Tenant for up to two additional due diligence periods of one (1) year each (each a "Renewal Due Diligence Period") upon written notification to Landlord and the payment of an additional [REDACTED] no later than five (5) days prior to the expiration date of the Initial Due Diligence Period or the Renewal Due Diligence Period. The Initial Due Diligence Period and any Renewal Due Diligence Periods are collectively referred to as the "Due Diligence Period."

(d) Provided that construction of the Communication Facility (as hereinafter defined) has not commenced, it is understood that Tenant shall have the right to terminate this Agreement during the Due Diligence Period for any reason or no reason at all, without any further liability or obligation to Landlord except those obligations which specifically survive the expiration or termination of this Agreement, by delivery of written notice of termination to Landlord prior to the Rent Commencement Date.

(e) If during the Due Diligence Period or the Term, Landlord decides to subdivide, sell, or change the status of the zoning of the Premises, the Property or any of Landlord's contiguous, adjoining or surrounding property (the "Surrounding Property"), or in the event of a threatened foreclosure on any of the foregoing, Landlord shall immediately notify Tenant in writing. Landlord agrees that during the Due Diligence Period or the Term, Landlord shall not initiate or consent to any change in the zoning of the Premises, the Property or the Surrounding Property or impose or consent to any other use or restriction that would prevent or limit Tenant from using the Premises for the Permitted Use.

2. **PERMITTED USE.** Tenant may use the Premises for the transmission and reception of communications signals and the installation, construction, maintenance, operation, repair, replacement and upgrade of communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable support structure ("Structure"), associated antennas, equipment shelters or cabinets and fencing and any other items necessary to the successful and secure use of the Premises (collectively, the "Communication Facility"), as well as the right to test, survey and review title on the Property; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord (collectively, the "Permitted Use"). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on Exhibit 1 will not be deemed to limit Tenant's Permitted Use. If Exhibit 1 includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of Exhibit 1. For a period of ninety (90) days following the start of construction, Landlord grants Tenant, its subtenants, licensees and sublicensees, the right to use such portions of the Surrounding Property as may reasonably be required during construction and installation of the Communication Facility. Tenant has the right to install and operate transmission cables from the equipment shelter or cabinet to the antennas, electric lines from the main feed to the equipment shelter or cabinet and communication lines from the Property's main entry point to the equipment shelter or cabinet, install a generator and to make other improvements, alterations, upgrades or additions appropriate for Tenant's Permitted Use, including the right to construct a fence around the Premises or equipment, install warning signs to make individuals aware of risks, install protective barriers, install any other control measures reasonably required by Tenant's safety procedures or applicable law, and undertake any other appropriate means to secure the Premises or equipment at Tenant's expense. Tenant has the right to modify, supplement, replace, upgrade, expand the Communication Facility (including, for example, increasing the number of antennas or adding microwave dishes) or relocate the Communication Facility within the Premises at any time during the Term. Tenant will be allowed to make such alterations to the Property in order to ensure that the Communication Facility complies with all applicable federal, state or local laws, rules or regulations. In the event Tenant desires to modify or upgrade the Communication Facility, in a manner that requires an additional portion of the Property to be no more than 250 square feet adjacent to the Premises (the "Additional Premises") for such modification or upgrade, Landlord agrees to lease to Tenant the Additional Premises, upon the same terms and conditions set forth herein, except that the Rent shall increase, in conjunction with the lease of the Additional Premises by the amount equivalent to the then-current per square foot rental rate

charged by Landlord to Tenant times the square footage of the Additional Premises. Landlord agrees to take such actions and enter into and deliver to Tenant such documents as Tenant reasonably requests in order to effect and memorialize the lease of the Additional Premises to Tenant.

3. TERM.

(a) The initial lease term will be five (5) years (the "**Initial Term**"), commencing on the Effective Date (the "**Term Commencement Date**"). The Initial Term will terminate on the fifth (5th) anniversary of the Term Commencement Date.

(b) This Agreement will automatically renew for seventeen (17) additional five (5) year term(s) (each additional five (5) year term shall be defined as an "**Extension Term**"), upon the same terms and conditions set forth herein unless Tenant notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the Initial Term or the then-existing Extension Term.

(c) Unless (i) Landlord or Tenant notifies the other in writing of its intention to terminate this Agreement at least six (6) months prior to the expiration of the final Extension Term, or (ii) the Agreement is terminated as otherwise permitted by this Agreement prior to the end of the final Extension Term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter ("**Annual Term**") until terminated by either party by giving to the other party written notice of its intention to so terminate at least six (6) months prior to the end of any such Annual Term. Monthly rent during such Annual Terms shall be equal to the Rent paid for the last month of the final Extension Term. If the Tenant remains in possession of the Premises after the termination of this Agreement, then Tenant will be deemed to be occupying the Premises on a month-to-month basis (the "**Holdover Term**"), subject to the terms and conditions of this Agreement.

(d) The Initial Term, any Extension Terms, any Annual Terms and any Holdover Term are collectively referred to as the "**Term**".

4. RENT.

(a) Commencing on Rent Commencement Date as defined below, Tenant will pay Landlord on or before the fifth (5th) day of each calendar month in advance, [REDACTED] (the "**Rent**"), which shall be deemed to include any applicable taxes, and shall be paid to the address set forth above or by electronic funds transfer. In any partial month occurring after the Rent Commencement Date, the Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within forty-five (45) days after the Rent Commencement Date subject to the provisions of Section 24(k). The "**Rent Commencement Date**" shall mean the first day of the month following the date the Tenant commences construction of the Communication Facility; provided, however, in the event that Tenant has not commenced construction of the Communication Facility by the expiration of the Due Diligence Period, this Agreement shall automatically terminate and the parties shall be released from further liability or obligation hereunder except those obligations which specifically survive the expiration or termination of this Agreement.

Upon the commencement of each Extension Term, the monthly Rent will increase by [REDACTED] over the Rent paid during the previous five (5) year term, effective the first day of the month which the anniversary of the Rent Commencement Date occurs.

(c) All charges payable under this Agreement such as utilities and taxes shall be billed by Landlord within one (1) year from the end of the calendar year in which the charges were incurred; any charges beyond such period shall not be billed by Landlord and shall not be payable by Tenant. The foregoing shall not apply to monthly Rent which is due and payable without a requirement that it be billed by Landlord. The provisions of this subsection shall survive the termination or expiration of this Agreement.

(d) Landlord will agree that all payments due to Landlord from Tenant will be made by electronic funds transfer ("EFT"). Any cause for delay of payment to the Landlord from the Tenant due to the Landlord's change of financial institution or account as provided on the Direct Deposit form or the financial institution's actions or lack of action will not be considered a delay in or lack of payment by the Tenant. As a condition precedent to any payment, Landlord agrees to provide Tenant with completed payment forms, or the equivalent, upon execution of this Agreement and at such other times as may be reasonably requested by Tenant, including any change in Landlord's name or address.

5. **APPROVALS.**

(a) **Attorney-In-Fact and Cooperation.** Landlord agrees that Tenant's ability to use the Premises is contingent upon the suitability of the Premises and Property for the Permitted Use and Tenant's ability to obtain and maintain all Government Approvals. Landlord hereby irrevocably appoints Tenant or Tenant's agent as Landlord's agent to file such applications on behalf of Landlord with federal, state and local governmental authorities which relate to Tenant's Permitted Use of the Property, including, but not limited to, land use and zoning applications. Landlord agrees to cooperate with Tenant in obtaining and maintaining, at Tenant's expense, all licenses and permits required for Tenant's use of the Property (the "Governmental Approval").

(b) Tenant has the right to obtain a title report or commitment for a leasehold title policy from a title insurance company of its choice and to have the Property surveyed by a surveyor of its choice.

(c) Tenant may also perform and obtain, at Tenant's sole cost and expense, soil borings, percolation tests, engineering procedures, environmental investigation or other tests or reports on, over, and under the Property, necessary to determine if Tenant's use of the Premises will be compatible with Tenant's engineering specifications, system, design, operations or Government Approvals. Any and all testing during the Due Diligence Period will not constitute construction for the purposes of the Rent Commencement.

6. **TERMINATION.** This Agreement may be terminated, without penalty or further liability, as follows:

(a) by either party on thirty (30) days prior written notice, if the other party remains in default under Section 15 of this Agreement after the applicable cure periods;

(b) by Tenant upon written notice to Landlord, if Tenant is unable to obtain, or maintain, any required approval(s) or the issuance of a license or permit by any agency, board, court or other governmental authority necessary for the construction or operation of the Communication Facility as now or hereafter intended by Tenant; or if Tenant determines, in its sole discretion that the cost of or delay in obtaining or retaining the same is commercially unreasonable;

(c) by Tenant, upon written notice to Landlord, if Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory for its intended uses;

(d) by Tenant upon written notice to Landlord for any reason or no reason, at any time prior to commencement of construction by Tenant; or

(e) by Tenant upon sixty (60) days' prior written notice to Landlord for any reason or no reason, so long as Tenant pays Landlord a termination fee equal to [REDACTED]'s Rent, at the then-current rate, provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Tenant under any termination provision contained in any other Section of this Agreement, including the following: Section 5 Approvals, Section 6(a) Termination, Section 6(b) Termination, Section 6(c) Termination, Section 6(d) Termination, Section 11(d) Environmental, Section 18 Condemnation or Section 19 Casualty.

7. **INSURANCE.** During the Term, Tenant will purchase and maintain in full force and effect such general liability policy as Tenant may deem necessary. Said policy of general liability insurance will at a minimum provide a combined single limit of [REDACTED]. Notwithstanding the foregoing, Tenant shall have the right to self-insure such general liability coverage.

8. **INTERFERENCE.**

(a) Prior to or concurrent with the execution of this Agreement, Landlord has provided or will provide Tenant with a list of radio frequency user(s) and frequencies used on the Property as of the Effective Date. Tenant warrants that its use of the Premises will not interfere with those existing radio frequency uses on the Property, as long as the existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations.

(b) Landlord will not grant, after the Effective Date, a lease, license or any other right to any third party, if the exercise of such grant may in any way adversely affect or interfere with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement.

(c) Landlord will not, nor will Landlord permit its employees, tenants, licensees, invitees, agents or independent contractors to interfere in any way with the Communication Facility, the operations of Tenant or the

rights of Tenant under this Agreement. Landlord will cause such interference to cease within twenty-four (24) hours after receipt of notice of interference from Tenant. In the event any such interference does not cease within the aforementioned cure period, Landlord shall cease all operations which are suspected of causing interference (except for intermittent testing to determine the cause of such interference) until the interference has been corrected.

(d) For the purposes of this Agreement, "interference" may include, but is not limited to, any use on the Property or Surrounding Property that causes electronic or physical obstruction with, or degradation of, the communications signals from the Communication Facility.

9. INDEMNIFICATION.

(a) Tenant agrees to indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or liability, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from the installation, use, maintenance, repair or removal of the Communication Facility or Tenant's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Landlord, its employees, invitees, agents or independent contractors.

(b) Landlord agrees to indemnify, defend and hold Tenant harmless from and against any and all injury, loss, damage or liability, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from the actions or failure to act of Landlord, its employees, invitees, agents or independent contractors, or Landlord's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Tenant, its employees, agents or independent contractors.

(c) The indemnified party: (i) shall promptly provide the indemnifying party with written notice of any claim, demand, lawsuit, or the like for which it seeks indemnification pursuant to this Section 9 and provide the indemnifying party with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like; (ii) shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of the indemnifying party; and (iii) shall fully cooperate with the indemnifying party in the defense of the claim, demand, lawsuit, or the like. A delay in notice shall not relieve the indemnifying party of its indemnity obligation, except (1) to the extent the indemnifying party can show it was prejudiced by the delay; and (2) the indemnifying party shall not be liable for any settlement or litigation expenses incurred before the time when notice is given.

10. WARRANTIES.

(a) Each of Tenant and Landlord (to the extent not a natural person) each acknowledge and represent that it is duly organized, validly existing and in good standing and has the right, power, and authority or capacity, as applicable, to enter into this Agreement and bind itself hereto through the party or individual set forth as signatory for the party below.

(b) Landlord represents, warrants and agrees that: (i) Landlord solely owns the Property as a legal lot in fee simple, or controls the Property by lease or license; (ii) the Property is not and will not be encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Tenant's Permitted Use and enjoyment of the Premises under this Agreement, other than those liens and encumbrances shown on **Exhibit 2**; (iii) as long as Tenant is not in default beyond any applicable cure period then Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises in accordance with the terms of this Agreement without hindrance or ejection by any persons lawfully claiming under Landlord; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on Landlord,

(c) Subordination and Non-Disturbance. This Lease shall be subject to and subordinate to any mortgage or deed to secure debt (collectively referred to as a "Mortgage") made by Landlord which may now or hereafter encumber the Premises and Easement(s), provided that no such subordination shall be effective unless the holder of every such Mortgage shall in a separate agreement with Tenant agree that in the event of a foreclosure, or conveyance in lieu of foreclosure of Landlord's interest in the Premises and Easement(s), such

holder shall recognize and confirm the validity and existence of this Lease and that Tenant shall have the right to continue its use and occupancy of the Premises and Easement(s) in accordance with the provisions of this Lease as long as Tenant is not in default of this Lease beyond applicable notice and cure periods. Tenant shall execute in timely fashion such instruments as may reasonably be requested to evidence the provisions of this paragraph. Landlord represents and warrants that it has not granted any mortgage, deed of trust, or other security instrument encumbering the Property at any time after the Effective Date of this Agreement. Landlord further covenants not to grant any mortgage, deed of trust, or other security interest, or any interest whatsoever affecting the Site, the Leased Premises, or the Easements at any time between the Effective Date and the recordation date of the Memorandum of Lease.

11. ENVIRONMENTAL.

(a) Landlord represents and warrants, except as may be identified in **Exhibit 3** attached to this Agreement, (i) the Property, as of the Effective Date, is free of hazardous substances, including asbestos-containing materials and lead paint, and (ii) the Property has never been subject to any contamination or hazardous conditions resulting in any environmental investigation, inquiry or remediation. Landlord and Tenant agree that each will be responsible for compliance with any and all applicable governmental laws, rules, statutes, regulations, codes, ordinances, or principles of common law regulating or imposing standards of liability or standards of conduct with regard to protection of the environment or worker health and safety, as may now or at any time hereafter be in effect, to the extent such apply to that party's activity conducted in or on the Property.

(b) Landlord and Tenant agree to hold harmless and indemnify the other from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of the indemnifying party for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding ("**Claims**"), to the extent arising from that party's breach of its obligations or representations under Section 11(a). Landlord agrees to hold harmless and indemnify Tenant from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Landlord for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from subsurface or other contamination of the Property with hazardous substances prior to the Rent Commencement Date or from such contamination caused by the acts or omissions of Landlord during the Term. Tenant agrees to hold harmless and indemnify Landlord from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Tenant for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from hazardous substances brought onto the Property by Tenant.

(c) The indemnification provisions contained in this Section 11 specifically include reasonable costs, expenses and fees incurred in connection with any investigation of Property conditions or any clean-up, remediation, removal or restoration work required by any governmental authority. The provisions of this Section 11 will survive the expiration or termination of this Agreement.

(d) In the event Tenant becomes aware of any hazardous materials on the Property, or any environmental, health or safety condition or matter relating to the Property, that, in Tenant's sole determination, renders the condition of the Premises or Property unsuitable for Tenant's use, or if Tenant believes that the leasing or continued leasing of the Premises would expose Tenant to undue risks of liability to a government agency or other third party, then Tenant will have the right, in addition to any other rights it may have at law or in equity, to terminate this Agreement upon written notice to Landlord.

12. ACCESS.

At all times throughout the Term of this Agreement, and at no additional charge to Tenant, Tenant and its employees, agents, and subcontractors, will have twenty-four (24) hour per day, seven (7) day per week pedestrian and vehicular access ("**Access**") to and over the Property, from an open and improved public road to the Premises, for the installation, maintenance and operation of the Communication Facility and any utilities or fiber serving the Premises. If Tenant elects to utilize an Unmanned Aircraft System ("**UAS**") in connection with its installation, construction, monitoring, site audits, inspections, maintenance, repair, modification, or alteration activities at the Property, Landlord hereby grants Tenant, or any UAS operator acting on Tenant's behalf, express permission to fly over the applicable Property and Premises, and consents to the use of audio and video navigation and recording in connection with the use of the UAS. As may be described more

fully in **Exhibit 1**, Landlord grants to Tenant an easement for such Access and Landlord agrees to provide to Tenant such codes, keys and other instruments necessary for such Access at no additional cost to Tenant. Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. Landlord shall execute a letter granting Tenant Access to the Property substantially in the form attached as **Exhibit 5**; upon Tenant's request, Landlord shall execute additional letters during the Term. Landlord acknowledges that in the event Tenant cannot obtain Access to the Premises, Tenant shall incur significant damage. If Landlord fails to provide the Access granted by this Section 12, such failure shall be a default under this Agreement, barring any Access failure due to or related to any Act of God. In connection with such default, in addition to any other rights or remedies available to Tenant under this Agreement or at law or equity, Landlord shall pay Tenant, as liquidated damages and not as a penalty, [REDACTED] per day until Landlord provides Access to the Premises pursuant to the terms of this Section. Landlord acknowledges and agrees Tenant may take a credit against any future payments of Rent, without notification to Landlord, of the amount of such liquidated damages. Landlord and Tenant agree that Tenant's damages in the event of a denial of Access are difficult, if not impossible, to ascertain, and the liquidated damages set forth above are a reasonable approximation of such damages.

13. REMOVAL/RESTORATION. All portions of the Communication Facility brought onto the Property by Tenant will be and remain Tenant's personal property and, at Tenant's option, may be removed by Tenant at any time during or after the Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of Tenant and may be removed by Tenant at any time during or after the Term. Tenant will repair any damage to the Property resulting from Tenant's removal activities. Any portions of the Communication Facility that Tenant does not remove within one hundred twenty (120) days after the later of the end of the Term and cessation of Tenant's operations at the Premises shall be deemed abandoned and owned by Landlord. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation.

14. MAINTENANCE/UTILITIES.

(a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. Landlord will maintain and repair the Property and access thereto and all areas of the Premises where Tenant does not have exclusive control, in good and tenantable condition, subject to reasonable wear and tear and damage from the elements.

(b) Tenant will be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises.

(c) If the interruption is for an extended period of time, in Tenant's reasonable determination, Landlord agrees to allow Tenant the right to bring in a temporary source of power for the duration of the interruption. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.

(d) Tenant will have the right to install utilities and fiber on the Property and the Premises, at Tenant's expense and discretion of such utility and/or fiber provider, and to improve present utilities and/or fiber on the Property and the Premises; by way of example, such utilities shall include overhead and underground electric, water, data transmission, and other necessary utility facilities (including guys, wires, poles, and other appurtenant equipment). Landlord hereby grants to Tenant and any service company providing utility, fiber or similar services, including electric power and telecommunications, to Tenant an easement over the Property, from an open and improved public road to the Premises, and upon the Premises, for the purpose of constructing, operating and maintaining such lines, guys, wires, poles, circuits, and conduits, associated equipment cabinets, and such appurtenances thereto, as such service companies may from time to time require in order to provide such services to the Premises. Upon Tenant's or service company's request, Landlord will execute a separate recordable easement evidencing this grant, at no cost to Tenant or the service company.

15. DEFAULT AND RIGHT TO CURE.

(a) The following will be deemed a default by Tenant and a breach of this Agreement: (i) non-payment of Rent if such Rent remains unpaid for more than thirty (30) days after receipt of written notice from Landlord of such failure to pay; or (ii) Tenant's failure to perform any other term or condition under this Agreement within sixty (60) days after receipt of written notice from Landlord specifying the failure. No such failure, however, will be deemed to exist if Tenant has commenced to cure such default within such period and provided that such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Tenant. If Tenant remains in default beyond any applicable cure period, then Landlord will have the right to exercise any and all rights and remedies available to it under law and equity.

(b) The following will be deemed a default by Landlord and a breach of this Agreement: (i) Landlord's failure to provide Access to the Premises as required by Section 12 within twenty-four (24) hours after written notice of such failure; (ii) Landlord's failure to cure an interference problem as required by Section 8 within twenty-four (24) hours after written notice of such failure; or (iii) Landlord's failure to perform any term, condition or breach of any warranty or covenant under this Agreement within sixty (60)) days after written notice from Tenant specifying the failure. No such failure, however, will be deemed to exist if Landlord has commenced to cure the default within such period and provided such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Landlord. If Landlord remains in default beyond any applicable cure period, Tenant will have: (i) the right to cure Landlord's default and to deduct the costs of such cure from any monies due to Landlord from Tenant, and (ii) any and all other rights available to it under law and equity.

16. ASSIGNMENT/SUBLEASE.

(a) Tenant will have the right to assign this Agreement or sublease the Premises and its rights herein, in whole or in part, without Landlord's consent. Upon notification to Landlord of such assignment, Tenant will be relieved of all future performance, liabilities and obligations under this Agreement to the extent of such assignment.

(b) Tenant's lessee(s), licensee(s) and subtenant(s) shall be entitled to modify the Communication Facilities and to erect additional improvements on the Premises, including, but not limited to antennas, dishes, cabling, additional storage buildings or equipment shelters as are reasonably required for the operation and maintenance of the communications equipment, together with rights of ingress and egress to the Premises and the right to install utilities and fiber to and on the Premises as if said lessee, licensee or subtenant were the Tenant under this Agreement.

17. NOTICES. All notices, requests and demands hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties hereto as follows:

If to Tenant: Harmoni Towers Gateway LLC
 Attn: Real Estate Administration
 6210 Ardrey Kell Road Suite 350
 Charlotte, North Carolina 28277
 REAdmin@harmonitowers.com

cc: Harmoni Towers Gateway LLC
 Attn: Director of Legal
 6210 Ardrey Kell Road Suite 350
 Charlotte, North Carolina 28277

For Emergencies: NOC@harmonitowers.com

If to Landlord:



Either party hereto may change the place for the giving of notice to it by thirty (30) days' prior written notice to the other party hereto as provided herein.

18. **CONDEMNATION.** In the event Landlord receives notification of any condemnation proceedings affecting the Property, Landlord will provide notice of the proceeding to Tenant within twenty-four (24) hours. If a condemning authority takes all of the Property, or a portion sufficient, in Tenant's sole determination, to render the Premises unsuitable for Tenant, this Agreement will terminate as of the date the title vests in the condemning authority. The parties will each be entitled to pursue their own separate awards in the condemnation proceeds, which for Tenant will include, where applicable, the value of its Communication Facility, moving expenses, prepaid Rent, and business dislocation expenses. Tenant will be entitled to reimbursement for any prepaid Rent on a *pro rata* basis.

19. **CASUALTY.** Landlord will provide notice to Tenant of any casualty or other harm affecting the Property within twenty-four (24) hours of the casualty or other harm. If any part of the Communication Facility or the Property is damaged by casualty or other harm as to render the Premises unsuitable, in Tenant's sole determination, then Tenant may terminate this Agreement by providing written notice to Landlord, which termination will be effective as of the date of such casualty or other harm. Upon such termination, Tenant will be entitled to collect all insurance proceeds payable to Tenant on account thereof and to be reimbursed for any prepaid Rent on a *pro rata* basis. Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property, but only until such time as Tenant is able to activate a replacement transmission facility at another location; notwithstanding the termination of this Agreement, such temporary facilities will be governed by all of the terms and conditions of this Agreement, including Rent. If Landlord or Tenant undertakes to rebuild or restore the Premises and/or the Communication Facility, as applicable, Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property at no additional Rent until the reconstruction of the Premises and/or the Communication Facility is completed. If Landlord determines not to rebuild or restore the Property, Landlord will notify Tenant of such determination within thirty (30) days after the casualty or other harm. If Landlord does not so notify Tenant and Tenant decides not to terminate under this Section 19, then Landlord will promptly rebuild or restore any portion of the Property interfering with or required for Tenant's Permitted Use of the Premises to substantially the same condition as existed before the casualty or other harm. Landlord agrees that the Rent shall be abated until the Property and/or the Premises are rebuilt or restored, unless Tenant places temporary transmission and reception facilities on the Property.

20. **WAIVER OF LANDLORD'S LIENS.** Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility or any portion thereof. The Communication Facility shall be deemed personal property for purposes of this Agreement, regardless of whether any portion is deemed real or personal property under applicable law; Landlord consents to Tenant's right to remove all or any portion of the Communication Facility from time to time in Tenant's sole discretion and without Landlord's consent.

21. **TAXES.**

(a) Landlord shall be responsible for (i) all taxes and assessments levied upon the lands, improvements and other property of Landlord including any such taxes that may be calculated by a taxing authority using any method, including the income method, (ii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with this Agreement, the sale of the Property or an assignment of the Rent payments by Landlord to a third party. Tenant shall be responsible for (y) any taxes and assessments attributable to and levied upon

Tenant's leasehold improvements on the Premises and (z) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with an assignment of this Agreement or sublease by Tenant. Nothing herein shall require Tenant to pay any inheritance, franchise, income, payroll, excise, privilege, rent, capital stock, stamp, documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Landlord.

(b) In the event Landlord receives a notice of assessment for which all or a portion of such taxes or assessments are imposed on Tenant's leasehold improvements, Landlord shall provide Tenant with copies of such notice upon receipt, but in no event later than thirty (30) days after the date of such notice of assessment. If Landlord does not provide such notice to Tenant in a timely manner and Tenant's rights with respect to such taxes are prejudiced by the delay, Landlord shall reimburse Tenant for any increased costs directly resulting from the delay and Landlord shall be responsible for payment of the portion of tax or assessment imposed on Tenant's leasehold improvements and Landlord shall not have the right to reimbursement of such amount from Tenant. For any request of reimbursement by Tenant, Landlord shall, no later than thirty (30) days after Landlord's payment of the taxes or assessments, provide Tenant with a request for reimbursement with accompanying evidence of Landlord's timely payment to the taxing authority ("Tax Reimbursement Request"). Subject to Section 21(c), Tenant shall reimburse Landlord within thirty (30) days from the Tax Reimbursement Request. Landlord shall provide to Tenant any other documentation reasonably requested by Tenant to allow Tenant to evaluate the payment and to reimburse Landlord. For the sake of clarity, in the event Landlord fails to pay any tax or assessment within such time period identified in the tax bill or notice of assessment, Tenant is under no obligation to provide reimbursement for any late fees or penalties.

(c) For any tax amount for which Tenant is responsible under this Agreement, Tenant shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as permitted by law. This right shall include the ability to institute any legal, regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate with respect to the commencement and prosecution of any such proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant, to the extent the amounts were originally paid by Tenant.

(d) Landlord shall not split or cause the tax parcel on which the Premises are located to be split, bifurcated, separated or divided without the prior written consent of Tenant.

(e) Promptly after the Effective Date, Landlord shall provide the Notice address set forth in Section 17 to the taxing authority for the authority's use in the event the authority needs to communicate with Tenant. In the event that Tenant's tax address changes by notice to Landlord, Landlord shall be required to provide Tenant's new tax address to the taxing authority or authorities.

(f) Notwithstanding anything to the contrary contained in this Section 21, Tenant shall have no obligation to reimburse any tax or assessment for which the Landlord is reimbursed or rebated by a third party.

22. SALE OF PROPERTY.

(a) Landlord may sell the Property or a portion thereof to a third party, provided: (i) the sale is made subject to the terms of this Agreement; and (ii) if the sale does not include the assignment of Landlord's full interest in this Agreement, the purchaser must agree to perform, without requiring compensation from Tenant or any subtenant, any obligation of Landlord under this Agreement, including Landlord's obligation to cooperate with Tenant as provided hereunder.

(b) If Landlord, at any time during the Term of this Agreement, decides to rezone or sell, subdivide or otherwise transfer all or any part of the Premises, or all or any part of the Property or the Surrounding Property, to a purchaser other than Tenant, Landlord shall promptly notify Tenant in writing, and such rezoning, sale, subdivision or transfer shall be subject to this Agreement and Tenant's rights hereunder. In the event of a change in ownership, transfer or sale of the Property, within ten (10) days of such transfer, Landlord or its successor shall send the documents listed below in this Section 22(b) to Tenant. Until Tenant receives all such documents, Tenant's failure to make payments under this Agreement shall not be an event of default and Tenant reserves the right to hold payments due under this Agreement.

- i. Old deed to Property
- ii. New deed to Property
- iii. Bill of Sale or Transfer
- iv. Copy of current Tax Bill
- v. New IRS Form W-9
- vi. Completed and Signed Tenant Payment Direction Form
- vii. Full contact information for new Landlord including phone number(s)

(c) Landlord agrees not to sell, lease or use any areas of the Property or the Surrounding Property for the installation, operation or maintenance of other wireless communication facilities if such installation, operation or maintenance would interfere with Tenant's Permitted Use or communications equipment as determined by radio propagation tests performed by Tenant in its sole discretion without the prior consent of Tenant, which consent may be withheld in Tenant's sole discretion.

(d) The provisions of this Section 22 shall in no way limit or impair the obligations of Landlord under this Agreement, including interference and access obligations.

23. RIGHT OF FIRST REFUSAL. Notwithstanding the provisions contained in Section 22, if at any time after the Effective Date, Landlord receives a bona fide written offer from a third party seeking any sale, conveyance, assignment or transfer, whether in whole or in part, of any property interest in or related to the Premises, including without limitation any offer seeking an assignment or transfer of the Rent payments associated with this Agreement or an offer to purchase an easement with respect to the Premises ("**Offer**"), Landlord shall immediately furnish Tenant with a copy of the Offer. Tenant shall have the right within ninety (90) days after it receives such copy to match the Offer and agree in writing (the "**Exercise Notice**") to match the financial terms of the Offer. For the avoidance of doubt, to exercise its rights under this Section 23, Tenant shall not be required to match any compensation due to parties unrelated to Landlord, including but not limited to broker compensation. ~~The Exercise Notice shall be in the form of a contract substantially similar to the Offer (matching the financial terms); provided, however, that Landlord and Tenant acknowledge and agree that the Exercise Notice is intended to be a letter of intent or similar, and the parties shall thereafter negotiate in good faith the documents reasonably required to consummate Tenant's exercise of its rights under this Section 23.~~ Tenant may assign its rights to a third party under this Section 23. If Tenant chooses not to exercise this right or fails to provide written notice to Landlord within the ninety (90) day period, Landlord may sell, convey, assign or transfer such property interest in or related to the Premises pursuant to the Offer, subject to the terms of this Agreement. If Landlord attempts to sell, convey, assign or transfer such property interest in or related to the Premises without complying with this Section 23, the sale, conveyance, assignment or transfer shall be void. Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement until Landlord complies with this Section 23. Tenant's failure to exercise the right of first refusal shall not be deemed a waiver of the rights contained in this Section 23 with respect to any future proposed conveyances as described herein.

24. MISCELLANEOUS.

(a) **Amendment/Waiver.** This Agreement cannot be amended, modified or revised unless done in writing and signed by Landlord and Tenant. No provision may be waived except in a writing signed by both parties. The failure by a party to enforce any provision of this Agreement or to require performance by the other party will not be construed to be a waiver, or in any way affect the right of either party to enforce such provision thereafter.

(b) **Memorandum/Short Form Lease.** Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum of Lease substantially in the form attached as **Exhibit 6**. Either party may record this Memorandum of Lease at any time during the Term, in its absolute discretion.

(c) **Limitation of Liability.** Except for the indemnity obligations set forth in this Agreement, and otherwise notwithstanding anything to the contrary in this Agreement, Tenant and Landlord each waives any

claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.

(d) **Compliance with Law.** Tenant agrees to comply with all federal, state and local laws, orders, rules and regulations ("Laws") applicable to Tenant's use of the Communication Facility on the Property. Landlord agrees to comply with all Laws relating to Landlord's ownership and use of the Property and any improvements on the Property.

(e) **Bind and Benefit.** The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.

(f) **Entire Agreement.** This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement. Exhibits are numbered to correspond to the Section wherein they are first referenced. Except as otherwise stated in this Agreement, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys, and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Agreement and the transactions it contemplates.

(g) **Governing Law.** This Agreement will be governed by the laws of the state in which the Premises are located, without regard to conflicts of law.

(h) **Interpretation.** Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (iii) whenever a party's consent is required under this Agreement, except as otherwise stated in the Agreement or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of this Agreement and are incorporated by reference into this Agreement; (v) use of the terms "termination" or "expiration" are interchangeable; (vi) reference to a default will take into consideration any applicable notice, grace and cure periods; (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Agreement, the ambiguity shall not be resolved on the basis of who drafted the Agreement; (viii) the singular use of words includes the plural where appropriate; and (ix) if any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force if the overall purpose of the Agreement is not rendered impossible and the original purpose, intent or consideration is not materially impaired.

(i) **Affiliates.** All references to "Tenant" shall be deemed to include any of its Affiliate of Harmoni Towers Gateway LLC using the Premises for any Permitted Use or otherwise exercising the rights of Tenant pursuant to this Agreement. "Affiliate" means with respect to a party to this Agreement, any person or entity that (directly or indirectly) controls, is controlled by, or under common control with, that party. "Control" of a person or entity means the power (directly or indirectly) to direct the management or policies of that person or entity, whether through the ownership of voting securities, by contract, by agency or otherwise.

(j) **Survival.** Any provisions of this Agreement relating to indemnification shall survive the termination or expiration hereof. In addition, any terms and conditions contained in this Agreement that by their sense and context are intended to survive the termination or expiration of this Agreement shall so survive.

(k) **W-9.** As a condition precedent to payment, Landlord agrees to provide Tenant with a completed IRS Form W-9, or its equivalent, upon execution of this Agreement and at such other times as may be reasonably requested by Tenant, including any change in Landlord's name or address.

(l) **Execution/No Option.** The submission of this Agreement to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth herein. This Agreement will become effective as a binding Agreement only upon the handwritten legal execution, acknowledgment and delivery hereof by Landlord and Tenant. This Agreement may be executed in two (2) or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties. All parties need not sign the same counterpart.

(m) **Attorneys' Fees.** In the event that any dispute between the parties related to this Agreement should result in litigation, the prevailing party in such litigation shall be entitled to recover from the other party

all reasonable fees and expenses of enforcing any right of the prevailing party, including reasonable attorneys' fees and expenses. Prevailing party means the party determined by the court to have most nearly prevailed even if such party did not prevail in all matters. This provision will not be construed to entitle any party other than Landlord, Tenant and their respective Affiliates to recover their fees and expenses.

(n) **WAIVER OF JURY TRIAL.** EACH PARTY, TO THE EXTENT PERMITTED BY LAW, KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVES ITS RIGHT TO A TRIAL BY JURY IN ANY ACTION OR PROCEEDING UNDER ANY THEORY OF LIABILITY ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR THE TRANSACTIONS IT CONTEMPLATES.

(o) **Incidental Fees.** Unless specified in this Agreement, no unilateral fees or additional costs or expenses are to be applied by either party to the other party, including review of plans, structural analyses, consents, provision of documents or other communications between the parties.

(p) **Further Acts.** Upon request, Landlord will cause to be promptly and duly taken, executed, acknowledged and delivered all such further acts, documents, and assurances as Tenant may request from time to time in order to effectuate, carry out and perform all of the terms, provisions and conditions of this Agreement and all transactions and permitted use contemplated by this Agreement.

(q) **Exclusivity.** Landlord agrees not to lease any of Landlord's property within a radius of five (5) miles from the Premises for construction of a tower, for the construction or for use as a communications facility or for the operation of an antenna site leasing business which competes directly or indirectly with Tenant.

(r) **Confidentiality.** Landlord agrees that the terms of this Agreement shall be strictly confidential, and that Landlord shall not disclose any of the terms hereof to any third party, except with Tenant's prior written consent, which consent may be withheld in Tenant's sole discretion. Notwithstanding the foregoing, Landlord is permitted to disclose the terms of this Agreement to its attorneys, accountants and lenders, with any such party acknowledging and agreeing to the confidentiality terms as set forth herein.

(s) **Force Majeure.** No party shall be liable or responsible to the other party, nor be deemed to have defaulted under or breached this Agreement, for any failure or delay in fulfilling or performing any term of this Agreement, when and to the extent such failure or delay is caused by or results from acts beyond the affected party's reasonable control, including, without limitation: (a) acts of God; (b) flood, fire, earthquake, or explosion; (c) war, invasion, hostilities (whether war is declared or not), terrorist threats or acts, riot, or other civil unrest; (d) government order or law; (e) embargoes, or blockades in effect on or after the date of this Agreement; (f) action by any governmental authority; (g) national or regional emergency or epidemics; and (h) strikes, labor stoppages or slowdowns, or other industrial disturbances. The party suffering a force majeure event shall give written notice to the other party, stating the period of time the occurrence is expected to continue and shall use diligent efforts to end the failure or delay and ensure the effects of such force majeure event are minimized.

(t) **Self Help.** Without limiting Tenant's to terminate this Lease pursuant to Section 18(a) hereof, in case of a breach of any covenant or term hereof by the Landlord, the Tenant may, in its sole discretion, elect to remedy the Landlord's breach, which remedy shall not operate or be construed as a waiver of the Tenant's rights herein to recover the cost of such remedy from the Landlord by setoff or otherwise, and the Landlord shall indemnify the Tenant from any and all costs, expenses, reasonable attorney fees and litigation expenses as may be incurred by the Tenant in performing the Landlord's obligations hereunder.

[SIGNATURES APPEAR ON NEXT PAGE]

IN WITNESS WHEREOF, the parties have caused this Agreement to be effective as of the last date written below.

"LANDLORD"

WITNESSES:

Brianne Jussell
Print Name

[Signature]
Print Name

Kimberly Rawlings, Trustee, or her successor in trust or assigns, under the Kimberly Rawlings Living Trust Dated July 1, 2025

[Signature]
Print Name: Kim Rawlings
Its: Trustee
Date: 2/27/26

LANDLORD ACKNOWLEDGMENT

COMMONWEALTH OF KENTUCKY
COUNTY OF NICHOLAS

BE IT REMEMBERED, that on this 27 day of February, 2026 before me, the subscriber, a person authorized to take oaths in the State of Kentucky, personally appeared Kimberly Rawlings, Trustee, or her successor in trust or assigns, under the Kimberly Rawlings Living Trust Dated July 1, 2025, who, being duly sworn on her oath, deposed and made proof to my satisfaction that she is the person named in the within instrument; and I, having first made known to her the contents thereof, she did acknowledge that she signed, sealed and delivered the same as her voluntary act and deed for the purposes therein contained.

PAMELA DUFOUR SINGER
NOTARY PUBLIC
STATE AT LARGE - KENTUCKY
COMMISSION # KYNP72082
MY COMMISSION EXPIRES MAY 25, 2027

Pamela Dufour Singer
Notary Public: [Signature]
My Commission Expires: 5/25/27

"TENANT"

Harmoni Towers Gateway LLC.
a Delaware limited liability company

WITNESSES:

Stephanie Freeman
Print Name

Michelle Campagna
Print Name

By: Nancy Venturelli
Print Name: Nancy Venturelli
Its: Director,
Contracts Administration
Date: 3/5/20

TENANT ACKNOWLEDGMENT

STATE OF North Carolina
COUNTY OF Mecklenburg

On the 5th day of March, 2020, before me personally appeared Nancy Venturelli who acknowledged under oath that he/ she is the Director, Contracts Admin of Harmoni Towers Gateway LLC, the Tenant named in the attached instrument, and as such was authorized to execute this instrument on behalf of the Tenant.



Emily Jenkins
Notary Public: Emily Jenkins
My Commission Expires: 9/28/26

EXHIBIT 1

DESCRIPTION OF PROPERTY, PREMISES, AND EASEMENTS

Page 1 of 3

to the Lease Agreement dated 3/5/2026, by and between Kimberly Rawlings, Trustee, or her successor in trust or assigns, under the Kimberly Rawlings Living Trust Dated July 1, 202, as Landlord, and Harmoni Towers Gateway LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

Lying and being situated in the County of Nicholas, State of Kentucky, and being more particularly described as follows:

Beginning at a stone in John Robinson's line and corner to said first party's other land; thence South 7-3/4 degrees W 30.50 poles corner to said Robinson; thence South 23 3-4 degrees E 32.90 poles to a poplar corner to same; thence S 36-1/4 degrees E 40 poles to a stone near a large pool corner to same; thence S 5-3/4 degrees W 4.20 poles to a stone corner to same; thence S 72-1/4 degrees E 5 poles to a point in the Cane Run Pike corner to said Robinson; thence with said pike South 10 3/4 degrees W 10.20 poles, S 48-1/4 degrees W 17.50 poles; thence N 72 1/4 degrees W 95.28 poles to a stone on the South side of the Carlisle and Sharpsburg Turnpike, corner to said first party's other land and William Kennedy's land; thence N 14-1/2 degrees E 110.72 poles to a stone corner to said first party's other land; thence N 89-1/2 degrees E 46.20 poles to the beginning, containing 51 acres, 2 rods and 20 poles.

There is EXCEPTED from the above described property the property conveyed to Greg Rawlings and Kim Rawlings dated April 14, 1994, and of and of record in Deed Book 90, Page 109 of the Nicholas County Clerk's Office, to wit:

Situated on the north side and adjacent to KY Highway No. 36 and 4.6 miles east of KY Highway No. 32, in Carlisle, Kentucky.

BEGINNING at an iron pin on the north side of Kentucky Highway No. 36 and being 365 feet east of the southwest corner of the Keith Booth and Kay Booth property; thence with three (3) calls (new lines) on and over the Keith Booth and Kay Booth property North 27 deg. 35 min. 34 sec. East to an iron pin, South 67 deg. 11 min. 42 sec. East 399.83 feet to an iron pin, South 45 deg. 29 min. 52 sec. West 651.95 feet to an iron pin. Said pin being on the North side of KY Highway No. 36; thence with the North side of KY Highway No. 36 for two (2) calls, North 65 deg. 45 min. 06 sec. West 98.56' to an iron pin, North 63 deg. 25 min. 32 sec. West a distance of 99.62 feet to the point of beginning, containing 4.116 acres.

Bounded on the North and East by the land of the second party (first tract herein); on the South by the Cane Run Turnpike Road; on the West by the Carlisle and Sharpsburg Turnpike Road, containing one-fourth (1/4) acre.

Tax ID: 039-00-00-018.00

Being the some property conveyed to Greg Rawlings and Kim Rawlings, Husband and Wife, For and During Their Joint lives with Remainder to the Survivor of Them, Grantee, from Edward Keith Booth and Kay Booth, Husband and Wife, Grantor, by Deed Recorded 04/30/1994, as Book 90, Page 189 of the Nicholas County records.

The Premises are described and/or depicted as follows:

Beginning at a capped "Sharondale Nashville" iron pin set at the north corner of Harmoni Towers Assesto LLC's tower lease area located at Kentucky State Plane (South Zone) NAD 83 Grid Coordinate North 2,360,435.73, East 2,156,772.83;

Thence, South 38 degrees 13 minutes 19 seconds East, 80.00 feet to a capped "Sharondale Nashville" iron pin set at the east corner of Harmoni Towers Assesto LLC's tower lease area;

Thence, South 51 degrees 46 minutes 41 seconds West, 75.00 feet to a capped "Sharondale Nashville" iron pin set at the southeast corner of Harmoni Towers Assesto LLC's tower lease area

Thence, North 82 degrees 27 minutes 01 second West, 60.00 feet to a capped "Sharondale Nashville" iron pin set at the southwest corner of Harmoni Towers Assesto LLC's tower lease area;

Thence, North 7 degrees 32 minutes 59 seconds East, 53.05 feet to a capped "Sharondale Nashville" iron pin set at the west corner of Harmoni Towers LLC's tower lease area;

Thence, North 51 degrees 46 minutes 41 seconds East, 78.84 feet to the point of beginning, containing 7,745 square feet, (0.178 acres).

Being a portion of the property conveyed to Greg Rawlings and Kim Rawlings, Husband and wife, of record in Deed Book 90, Page 189, of the Court Clerk's Office of Nicholas County, Kentucky.

The Easements are described and/or depicted as follows:

Being a thirty foot wide joint access and utility easement extending from the northwest margin of Cane Run Road to the northeast margin of Harmoni Towers Assetco LLC's tower lease area, being more particularly described as follows:

Beginning at a capped "Sharondale Nashville" iron pin set in the northwest margin of Cane Run Road located at Kentucky State Plane (South Zone) NAD 83 Grid Coordinate North 2,360,431.83, East 2,156,769.20;

Thence, with the northwest margin of Cane Run Road, South 48 degrees 51 minutes 41 seconds West, 44.38 feet to a capped "Sharondale Nashville" iron pin set;

Thence, leaving the northwest margin of Cone Run Road, North 89 degrees 43 minutes 42 seconds West, 56.23 feet to a point;

Thence, South 51 degrees 46 minutes 41 seconds West, 58.76 feet to a capped "Sharondale Nashville" iron pin set in the northeast corner of Harmoni Towers Assetco LLC's tower lease area;

Thence, northwest margin of Harmon Towers Assetco LLC's tower lease area, North 38 degrees 13 minutes 19 seconds West, 30.00 feet to a capped "Sharondale Nashville" iron pin set;

Thence, leaving the northwest margin of Harmoni Towers Asselco LLC's tower lease area, North 51 degrees 46 minutes 41 seconds East, 69.24 feet to a point;

Thence, South 89 degrees 43 minutes 42 seconds East, 99.41 feet to the point of beginning, containing 4,255 square feet, (0.098 acres).

Being a portion of the property conveyed to Greg Rawlings and Kim Rawlings, Husband and wife, of record in Deed Book 90, Page 189, of the Court Clerk's Office of Nicholas County, Kentucky.



Notes:

1. THIS EXHIBIT MAY BE REPLACED BY A LAND SURVEY AND/OR CONSTRUCTION DRAWINGS OF THE PREMISES ONCE RECEIVED BY TENANT.
2. ANY SETBACK OF THE PREMISES FROM THE PROPERTY'S BOUNDARIES SHALL BE THE DISTANCE REQUIRED BY THE APPLICABLE GOVERNMENT AUTHORITIES.
3. WIDTH OF ACCESS ROAD SHALL BE THE WIDTH REQUIRED BY THE APPLICABLE GOVERNMENT AUTHORITIES, INCLUDING POLICE AND FIRE DEPARTMENTS.
4. THE TYPE, NUMBER AND MOUNTING POSITIONS AND LOCATIONS OF ANTENNAS AND TRANSMISSION LINES ARE ILLUSTRATIVE ONLY. ACTUAL TYPES, NUMBERS AND MOUNTING POSITIONS MAY VARY FROM WHAT IS SHOWN ABOVE.

EXHIBIT J

**NOTIFICATION LIST
PVA RECORDS
PROOF OF NOTICE**

LV MOOREFIELD ROAD – NOTICE LIST

039-00-00-018.00

039-00-00-018.01

THE KIMBERLY RAWLINGS REV LIVING TRUST
KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD RD
CARLISLE, KY 40311

039-00-00-017.00

MYNEAR STEVEN C & MYNEAR JOHNNY K
194 LOCUST GROVE RD
CARLISLE, KY 40311

039-00-00-017.05

TAPP E WAYNE
2600 CANE RUN RD
CARLISLE, KY 40311

047-00-00-005.05

BURKE PHYLLIS BAILEY
2649 CANE RUN RD
CARLISLE, KY 40311

047-00-00-005.07

PETERSON DON R EST & LINDA S
2673 CANE RUN RD
CARLISLE, KY 40311

047-00-00-006.00

047-00-00-005.08

JOHNSON LOGAN
3433 MOOREFIELD RD
CARLISLE, KY 40311

047-00-00-008.00

FISHER BENJAMIN S & SYLVIA S
1150 BERRY LN
CARLISLE, KY 40311

047-00-00-008.01

VICE MARK A
4452 MOOREFIELD RD
CARLISLE, KY 40311

047-00-00-007.00

THE KIMBERLY ROWLINGS REV LIVING TRUST
KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD RD
CARLISLE, KY 40311

039-00-00-020.00

VICE STEVE L
2928 MOOREFIELD RD
CARLISLE, KY 40311

G39-00-019.00

CAMPBELL CHARLIE G
3133 MOOREFIELD RD
CARLISLE, KY 40311

G39-00-018.00

APPLEGATE CHAD
3033 MOOREFIELD RD
CARLISLE, KY 40311

Summary

Map Number 039-00-00-017.00
Account Number 3641 (PID: 85600 PTID: 3641)
Location Address 200 LOCUST GROVE RD
Description 103 AC W/HOUSE & 2 METAL BLDGS
Class FARM
Tax District 01 County
Tax Rate 0.989

[View Map](#)



P

Owner Information

Current Owner
MYNEAR STEVEN C &
MYNEAR JOHNNY K
194 LOCUST GROVE RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			103.00	SECONDARY	GRAVEL		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	No	No	No	No	No
FRM_FCV	\$200,000	\$200,000	\$200,000	\$150,000	\$150,000
FRM_TXV	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000
FRM_RES	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000
FRM_AC	\$103	\$103	\$103	\$103	\$103
Taxable Value	\$90,000	\$90,000	\$90,000	\$90,000	\$90,000

Residential Improvement Information

Air Conditioning	NONE	Improvement Value	\$0
Basement sqft	0	Living sqft	0
Bedrooms	0	Patio/Deck sqft	0
Basement	NONE	Porch sqft	0
Exterior	NONE	Residential Type	NONE
Fireplaces	0	Roof Cover	NONE
Full Bath	0	Roof Type	NONE
Foundation	NONE	Stories	NONE
Garage sqft	0	Year Built	0
Garage			
Half Bath	0		
Heat	NONE		

Air Conditioning	CENTRAL	Improvement Value	\$0
Basement sqft	0	Living sqft	2,520
Bedrooms	4	Patio/Deck sqft	360
Basement	NONE	Porch sqft	320
Exterior	ALUMINUM	Residential Type	SINGLE FAMILY
Fireplaces	0	Roof Cover	ASPHALT SHINGLES
Full Bath	1	Roof Type	GABLE
Foundation	POURED CONCRETE	Stories	1.5 STORY
Garage sqft	240	Year Built	0
Garage	DETFRM1		
Half Bath	1		
Heat	GAS		

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
09/20/2018		140	516	MYNEAR CLAY EST	
05/01/1988		80	02	SCOTT EDGAR (GIFT)	

Photos



Recent Sales In Area

Sale date range:

From:

08/10/2023

To:

08/10/2026

Search Sales by Neighborhood

Search Sales by Subdivision

Distance:

1500

Units:

Feet

▼

Search Sales by Distance

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Summary

Map Number 039-00-00-017.05
Account Number 1709 (PID: 86278 PTID: 1709)
Location Address 2600 CANE RUN RD
Description 22.68AC W/MHOME & 40X84 METAL BARN
Class FARM
Tax District 01 County
Tax Rate 0.989

[View Map](#)



P

Owner Information

Current Owner
TAPP E WAYNE
2600 CANE RUN RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			22.68	SECONDARY	GRAVEL		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	Yes	Yes	Yes	Yes	Yes
FRM_FCV	\$116,000	\$116,000	\$114,540	\$114,540	\$114,540
FRM_TXV	\$82,000	\$82,000	\$80,290	\$80,290	\$80,290
FRM_RES	\$82,000	\$82,000	\$80,290	\$80,290	\$80,290
FRM_AC	\$22	\$22	\$22	\$22	\$22
Taxable Value	\$32,900	\$32,900	\$33,940	\$33,990	\$39,790

Mobile Home Information

Manufacturer	Model	Year Built	Exterior	Sqft	Width (ft)	Length (ft)	Pool	Value
CLAYTON	SOCIAL 72	2020		1,152	16	72		56000

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
01/01/1978	\$25,000	71	38	SCOTT EDGAR	

Photos



Recent Sales In Area

Sale date range:

From: To:

[Search Sales by Neighborhood](#)

[Search Sales by Subdivision](#)

Distance: Units: [Search Sales by Distance](#)

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Summary

Map Number 039-00-00-018.00
Account Number 1406 (PID: 85807 PTID: 1406)
Location Address MOOREFIELD RD
Description 47 AC & 32X64 METAL BLDG
Class FARM
Tax District 01 County
Tax Rate 0.989

[View Map](#)

Owner Information

Current Owner
THE KIMBERLY RAWLINGS REV LIVING TRUST
KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			47.00				

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	No	No	No	No	No
FRM_FCV	\$135,000	\$135,000	\$135,000	\$90,000	\$90,000
FRM_TXV	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000
FRM_AC	\$47	\$47	\$47	\$47	\$47
Taxable Value	\$42,000	\$42,000	\$42,000	\$42,000	\$42,000

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
07/30/2025		154	167	RAWLINGS GREG EST & KIM	
04/01/1994	\$9,500	90	89	BOOTH EDWARD KEITH & KAY	
10/01/1991	\$86,000			SANDERS EDWIN	

Recent Sales In Area

Sale date range:

From: 08/10/2023

To: 08/10/2026

Search Sales by Neighborhood

Search Sales by Subdivision

Distance: 1500

Units: Feet

Search Sales by Distance

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Summary

Map Number 039-00-00-018.01
Account Number 1407 (PID: 85806 PTID: 1407)
Location Address 3233 MOOREFIELD RD
Description 4.1 AC W/HOUSE
Class RESIDENTIAL
Tax District 01 County
Tax Rate 0.989

[View Map](#)



P

Owner Information

Current Owner
THE KIMBERLY RAWLINGS REV LIVING TRUST
KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			4.10	2 LANE	GRAVEL		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	No	No	No	No	No
RES	\$98,000	\$98,000	\$98,000	\$98,000	\$98,000
Taxable Value	\$98,000	\$98,000	\$98,000	\$98,000	\$98,000

Residential Improvement Information

Air Conditioning	OTHER	Improvement Value	\$0
Basement sqft	0	Living sqft	2,337
Bedrooms	3	Patio/Deck sqft	0
Basement	NONE	Porch sqft	153
Exterior	BRICK VENEER	Residential Type	SINGLE FAMILY
Fireplaces	1	Roof Cover	ASPHALT SHINGLES
Full Bath	2	Roof Type	HIP
Foundation	POURED CONCRETE	Stories	1 STORY
Garage sqft	0	Year Built	0
Garage			
Half Bath	1		
Heat	NONE		

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
07/30/2025		154	167	RAWLINGS GREG EST & KIM	
04/01/1994		90	09	BOOTH E KEITH	

Photos



Recent Sales In Area

Sale date range:

From: To:

[Search Sales by Neighborhood](#)

[Search Sales by Subdivision](#)

Distance: Units: [Search Sales by Distance](#)

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Summary

Map Number 039-00-00-020.00
Account Number 1842 (PID: 86474 PTID: 1842)
Location Address MOOREFIELD RD
Description 153 AC W/STORAGE BLDG
Class FARM
Tax District 01 County
Tax Rate 0.989

[View Map](#)

Owner Information

Current Owner
VICE STEVE L
2928 MOOREFIELD RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			153.00				

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	No	No	No	No	No
FRM_FCV	\$237,000	\$237,000	\$237,000	\$190,000	\$190,000
FRM_TXV	\$60,800	\$60,800	\$60,800	\$60,800	\$60,800
FRM_AC	\$153	\$153	\$153	\$153	\$153
Taxable Value	\$60,800	\$60,800	\$60,800	\$60,800	\$60,800

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
07/01/1988	\$125,000	80	86	CURTIS SAM	

Recent Sales In Area

Sale date range:

From:

To:

Distance:

Units:

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Summary

Map Number 047-00-00-005.05
Account Number 206 (PID: 83952 PTID: 206)
Location Address 2649 CANE RUN RD
Description 4 AC W/HOUSE-ATTACHED 2 CAR GARAGE
Class RESIDENTIAL
Tax District 01 County
Tax Rate 0.989

[View Map](#)

Owner Information

Current Owner
BURKE PHYLLIS BAILEY
2649 CANE RUN RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			4.00	SECONDARY	GRAVEL		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	Yes	Yes	Yes	Yes	Yes
RES	\$91,900	\$91,900	\$91,900	\$91,900	\$66,000
Taxable Value	\$42,800	\$42,800	\$45,550	\$45,600	\$25,500

Residential Improvement Information

Air Conditioning	WALL UNIT	Improvement Value	\$83,900
Basement sqft	0	Living sqft	1,242
Bedrooms	3	Patio/Deck sqft	0
Basement	NONE	Porch sqft	112
Exterior	ALUMINUM	Residential Type	SINGLE FAMILY
Fireplaces	0	Roof Cover	METAL
Full Bath	1	Roof Type	GABLE
Foundation	CONCRETE BLOCK	Stories	1 STORY
Garage sqft	1,024	Year Built	1979
Garage	ATTCHD2		
Half Bath	0		
Heat	NONE		

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
04/01/1983	\$47,500	75	19	BARNES BRUCE	

Recent Sales In Area

Sale date range:

From: To:

Distance: Units:

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Summary

Map Number 047-00-00-005.07
Account Number 3706 (PID: 87336 PTID: 3706)
Location Address 2673 CANE RUN RD
Description 1.45 AC W/HOUSE
Class RESIDENTIAL
Tax District 01 County
Tax Rate 0.989

[View Map](#)



P

Owner Information

Current Owner
PETERSON DON R EST & LINDA S
2673 CANE RUN RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			1.45	SECONDARY	ASPHALT		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	Yes	Yes	Yes	Yes	Yes
RES	\$92,000	\$92,000	\$90,000	\$90,000	\$90,000
Taxable Value	\$42,900	\$42,900	\$43,650	\$43,700	\$49,500

Residential Improvement Information

Air Conditioning	CENTRAL	Improvement Value	\$0
Basement sqft	0	Living sqft	1,911
Bedrooms	3	Patio/Deck sqft	260
Basement	NONE	Porch sqft	145
Exterior	BRICK VENEER	Residential Type	SINGLE FAMILY
Fireplaces	0	Roof Cover	ASPHALT SHINGLES
Full Bath	2	Roof Type	GABLE
Foundation	POURED CONCRETE	Stories	1 STORY
Garage sqft	651	Year Built	0
Garage	ATTCHD2		
Half Bath	0		
Heat	NONE		

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
03/01/1992	\$68,000	86	12	COMBS BURNETT	

Photos



Recent Sales In Area

Sale date range:

From: To:

[Search Sales by Neighborhood](#)

[Search Sales by Subdivision](#)

Distance: Units: [Search Sales by Distance](#)

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Summary

Map Number 047-00-00-006.00
Account Number 1182 (PID: 85419 PTID: 1182)
Location Address 3433 MOOREFIELD RD (CANE RUN RD)
Description LOT & 2.507ACW/M HOME 1989 40'X24' (INCL 47-5.8)
Class RESIDENTIAL
Tax District 01 County
Tax Rate 0.989

[View Map](#)



P

Owner Information

Current Owner
JOHNSON LOGAN
3433 MOOREFIELD RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			2.51	SECONDARY	GRAVEL		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	No	No	Yes	Yes	Yes
RES	\$85,000	\$85,000	\$39,300	\$39,300	\$39,300
Taxable Value	\$85,000	\$85,000	\$39,300	\$39,300	\$39,300

Mobile Home Information

Manufacturer	Model	Year Built	Exterior	Sqft	Width (ft)	Length (ft)	Pool	Value
		1989	MH STANDARD	920	23	40		74000

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
07/31/2024	\$85,000	151	735	MCFARLAND CHARLES T	
02/01/1974	\$1,800	68	27	LOT (DIVORCE)	

Photos



Recent Sales In Area

Sale date range:

From: To:

[Search Sales by Neighborhood](#)

[Search Sales by Subdivision](#)

Distance: Units: [Search Sales by Distance](#)

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GEO SPATIAL

Summary

Map Number 047-00-00-006.00
Account Number 1182 (PID: 85419 PTID: 1182)
Location Address 3433 MOOREFIELD RD (CANE RUN RD)
Description LOT & 2.507ACW/M HOME 1989 40'X24' (INCL 47-5.8)
Class RESIDENTIAL
Tax District 01 County
Tax Rate 0.989

[View Map](#)



P

Owner Information

Current Owner
JOHNSON LOGAN
3433 MOOREFIELD RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			2.51	SECONDARY	GRAVEL		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	No	No	Yes	Yes	Yes
RES	\$85,000	\$85,000	\$39,300	\$39,300	\$39,300
Taxable Value	\$85,000	\$85,000	\$39,300	\$39,300	\$39,300

Mobile Home Information

Manufacturer	Model	Year Built	Exterior	Sqft	Width (ft)	Length (ft)	Pool	Value
		1989	MH STANDARD	920	23	40		74000

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
07/31/2024	\$85,000	151	735	MCFARLAND CHARLES T	
02/01/1974	\$1,800	68	27	LOT (DIVORCE)	

Photos



Recent Sales In Area

Sale date range:

From: To:

[Search Sales by Neighborhood](#)

[Search Sales by Subdivision](#)

Distance: Units: [Search Sales by Distance](#)

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GEO SPATIAL

Summary

Map Number 047-00-00-007.00
Account Number 1408 (PID: 85809 PTID: 1408)
Location Address 3284 MOOREFIELD RD
Description HOUSE & 1AC+ W/METAL BLDG
Class RESIDENTIAL
Tax District 01 County
Tax Rate 0.989

[View Map](#)



P

Owner Information

Current Owner
THE KIMBERLY ROWLINGS REV LIVING TRUST
KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0				2 LANE	GRAVEL		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	No	No	No	No	No
RES	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000
Taxable Value	\$45,000	\$45,000	\$45,000	\$45,000	\$45,000

Residential Improvement Information

Air Conditioning	CENTRAL	Improvement Value	\$0
Basement sqft	560	Living sqft	662
Bedrooms	3	Patio/Deck sqft	480
Basement	WALKOUT	Porch sqft	66
Exterior	ALUMINUM	Residential Type	SINGLE FAMILY
Fireplaces	0	Roof Cover	ASPHALT SHINGLES
Full Bath	1	Roof Type	GABLE
Foundation	POURED CONCRETE	Stories	1 STORY
Garage sqft	0	Year Built	1940
Garage			
Half Bath	0		
Heat	NONE		

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
07/30/2025		154	167	RAWLINGS GREGORY T EST & KIMBERLY T	
10/30/2006	\$40,000	120	524	FIGHT KYLE & GRAY AMY	
03/01/2002	\$46,000			HOWARD HAROLD & PATRICIA	
05/01/1997	\$42,000			HUGHES HELEN E	
06/01/1989	\$30,000			STANLEY FREDERICK	

Photos



Recent Sales In Area

Sale date range:

From: To:

Distance: Units:

No data available for the following modules: Commercial Improvement Information, Mobile Home Information.

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Summary

Map Number 047-00-00-008.00
Account Number 1923 (PID: 86612 PTID: 1923)
Location Address 3500 MOOREFIELD RD
Description 60AC W/M HOME 1964 45'X10'(BUILT ON)
Class FARM
Tax District 01 County
Tax Rate 0.989

[View Map](#)



P

Owner Information

Current Owner
FISHER BENJAMIN S & SYLVIA S
1150 BERRY LN
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			60.00	2 LANE	GRAVEL		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	No	No	Yes	Yes	Yes
FRM_FCV	\$445,000	\$262,500	\$262,500	\$175,000	\$175,000
FRM_TXV	\$106,000	\$61,500	\$61,500	\$61,500	\$61,500
FRM_RES	\$106,000	\$61,500	\$61,500	\$60,000	\$60,000
FRM_AC	\$60	\$80	\$80	\$80	\$80
Taxable Value	\$106,000	\$61,500	\$15,150	\$15,200	\$21,000

Residential Improvement Information

Air Conditioning	OTHER	Improvement Value	\$50,000
Basement sqft	0	Living sqft	1,006
Bedrooms	2	Patio/Deck sqft	0
Basement	NONE	Porch sqft	52
Exterior	ALUMINUM	Residential Type	SINGLE FAMILY
Fireplaces	0	Roof Cover	METAL
Full Bath	1	Roof Type	GABLE
Foundation	CONCRETE BLOCK	Stories	1 STORY
Garage sqft	0	Year Built	1963
Garage			
Half Bath	0		
Heat	STOVE/SPACE HTR		

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
04/04/2025	\$555,000	153	244	WHALEY ALLEN B EST	
01/01/1984	\$90,500	75	81	FRYMAN CLAY	

Photos



Recent Sales In Area

Sale date range:

From: To:

Distance: Units:

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Summary

Map Number 047-00-00-008.01
Account Number 51066 (PID: 88523 PTID: 51066)
Location Address MOOREFIELD RD
Description 20AC
Class FARM
Tax District 01 County
Tax Rate 0.989

[View Map](#)

Owner Information

Current Owner
VICE MARK A
4452 MOOREFIELD RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
			20.00				

Tax Roll Information

	2026 Working
Homestead	No
FRM_FCV	\$110,000
FRM_TXV	\$16,500
FRM_AC	\$20
Taxable Value	\$16,500

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
10/23/2025	\$110,000	154	450	FISHER BENJAMIN S & SYLVIA S	

Recent Sales In Area

Sale date range:

From: To:

Distance: Units:

No data available for the following modules: Residential Improvement Information, Commercial Improvement Information, Mobile Home Information, Photos.

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Summary

Map Number G39-00-018.00
Account Number 52 (PID: 83717 PTID: 52)
Location Address 3033 MOOREFIELD RD
Description 34 AC W/HOUSE & METAL BLDG
Class FARM
Tax District 01 County
Tax Rate 0.989

[View Map](#)



P

Owner Information

Current Owner
APPLEGATE CHAD
3033 MOOREFIELD RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			34.00	2 LANE	GRAVEL		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	No	No	No	No	No
FRM_FCV	\$139,500	\$139,500	\$139,500	\$139,500	\$130,000
FRM_TXV	\$93,000	\$93,000	\$93,000	\$93,000	\$74,000
FRM_RES	\$93,000	\$93,000	\$93,000	\$93,000	\$70,000
FRM_AC	\$34	\$34	\$34	\$34	\$34
Taxable Value	\$93,000	\$93,000	\$93,000	\$93,000	\$74,000

Residential Improvement Information

Air Conditioning	OTHER	Improvement Value	\$50,000
Basement sqft	249	Living sqft	2,486
Bedrooms	3	Patio/Deck sqft	96
Basement	OTHER	Porch sqft	0
Exterior	ALUMINUM	Residential Type	SINGLE FAMILY
Fireplaces	0	Roof Cover	ASPHALT SHINGLES
Full Bath	1	Roof Type	GABLE
Foundation	BRICK/STONE	Stories	1.5 STORY
Garage sqft	0	Year Built	1920
Garage			
Half Bath	0		
Heat	GAS		

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
11/30/2023		150	567	APPLEGATE LLOYD L & TERESA M	
11/01/1998	\$102,500	100	342	FOGLEMAN BARRY M & SHARON A	
11/01/1987	\$46,000			STONE CLEVE ALLEN	

Photos



Recent Sales In Area

Sale date range:

From: To:

[Search Sales by Neighborhood](#)

[Search Sales by Subdivision](#)

Distance: Units: [Search Sales by Distance](#)

No data available for the following modules: Commercial Improvement Information, Mobile Home Information.

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Summary

Map Number G39-00-019.00
Account Number 1828 (PID: 87587 PTID: 1828)
Location Address 3133 MOOREFIELD RD
Description .5 AC W/HOUSE (BRICKED)
Class RESIDENTIAL
Tax District 01 County
Tax Rate 0.989

[View Map](#)



P

Owner Information

Current Owner
CAMPBELL CHARLIE G
3133 MOOREFIELD RD
CARLISLE, KY 40311

Land Information

Lot Size	Lot Frontage	Lot Depth	Acreage	Street Type	Driveway	Neighborhood Type	Site Condition
0x0			0.50	2 LANE	GRAVEL		

Tax Roll Information

	2026 Working	2025 Certified	2024 Certified	2023 Certified	2022 Certified
Homestead	Yes	Yes	Yes	Yes	Yes
RES	\$57,000	\$57,000	\$55,000	\$55,000	\$51,200
Taxable Value	\$7,900	\$7,900	\$8,650	\$8,700	\$10,700

Residential Improvement Information

Air Conditioning	OTHER	Improvement Value	\$52,000
Basement sqft	0	Living sqft	1,034
Bedrooms	3	Patio/Deck sqft	0
Basement	NONE	Porch sqft	161
Exterior	BRICK VENEER	Residential Type	SINGLE FAMILY
Fireplaces	0	Roof Cover	ASPHALT SHINGLES
Full Bath	1	Roof Type	HIP
Foundation	POURED CONCRETE	Stories	1 STORY
Garage sqft	0	Year Built	0
Garage			
Half Bath	0		
Heat	NONE		

Sales Information

Sale Date	Sale Price	Deed Book	Deed Page	Previous Owner	Sale Type
01/13/2017	\$50,000	137	442	VICE KATHY L	
09/01/1985	\$20,000	76	17	THORNSBURG(.4AC)FOGLEMANN(.1AC)(LARR	

Photos



Recent Sales In Area

Sale date range:

From: 08/10/2023 To: 08/10/2026

[Search Sales by Neighborhood](#)

[Search Sales by Subdivision](#)

Distance: 1500 Units: Feet [Search Sales by Distance](#)

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City

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CAMPBELL CHARLIE G
3133 MOOREFIELD RD
CARLISLE, KY 40311

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State

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APPLEGATE CHAD
3033 MOOREFIELD RD
CARLISLE, KY 40311

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City

State

Zip

THE KIMBERLY ROAWLINGS REV
LIVING TRUST
KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD RD
CARLISLE, KY 40311

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VICE STEVE L
2928 MOOREFIELD RD
CARLISLE, KY 40311

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☐ Adult Signature Required	\$
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FISHER BENJAMIN S & SYLVIA S
1150 BERRY LN
CARLISLE, KY 40311

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☐ Adult Signature Required	\$
☐ Adult Signature Restricted Delivery	\$

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VICE MARK A
4452 MOOREFIELD RD
CARLISLE, KY 40311

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PETERSON DON R EST & LINDA S
2673 CANE RUN RD
CARLISLE, KY 40311

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JOHNSON LOGAN
3433 MOOREFIELD RD
CARLISLE, KY 40311

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TAPP E WAYNE
2600 CANE RUN RD
CARLISLE, KY 40311

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BURKE PHYLLIS BAILEY
2649 CANE RUN RD
CARLISLE, KY 40311

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THE KIMBERLY RAWLINGS REV
LIVING TRUST
KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD RD
CARLISLE, KY 40311

PS Form 3800, January 2023 PSN 7530-02-000-9047 See Reverse for Instructions

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☐ Adult Signature Required \$
☐ Adult Signature Restricted Delivery \$

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MYNEAR STEVEN C & MYNEAR
JOHNNY K
194 LOCUST GROVE RD
CARLISLE, KY 40311

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 KIMBERLY ROWLINGS REV
LIVING TRUST
KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD RD

CARLISLE KY 40311



9590 9402 7926 2305 8727 46

2. Article Number (Transfer from service label)

9589 0710 5270 4074 9057 18

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

B. Received by (Printed Name)

☐ Agent☐ Addressee

C. Date of Delivery

8-15-26

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

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Insured Mail☐ 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:

BURKE PHYLLIS BAILEY
2649 CANE RUN RD
CARLISLE, KY 40311



9590 9402 7926 2305 8727 91

2. Article Number (Transfer from service label)

9589 0710 5270 4074 9057 32

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Phyllis Bailey ☐ 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 ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☒ Certified Mail® ☐ Registered Mail Restricted Delivery
☐ Certified Mail Restricted Delivery ☐ Signature Confirmation
☐ Collect on Delivery ☐ Signature Confirmation Restricted Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over \$500)

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

FISHER BENJAMIN S & SYLVIA S
1150 BERRY LN
CARLISLE, KY 40311



9590 9402 7926 2305 8727 60

2. Article Number (Transfer from service label)

9589 0710 5270 4074 9056 95

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X B. Fisher ☐ 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 ☐ Priority Mail Express®
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☐ Certified Mail Restricted Delivery ☐ Signature Confirmation
☐ Collect on Delivery ☐ Signature Confirmation Restricted Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over \$500)

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

THE KIMBERLY RAWLINGS REV
LIVING TRUST
KIMBERLY RAWLINGS TRUSTEE
3233 MOOREFIELD RD
CARLISLE, KY 40311



9590 9402 7926 2305 8728 21

2. Article Number (Transfer from service label)

9589 0710 5270 4074 9057 70

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Kimberly Rawlings ☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

8-15-26

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

3. Service Type

- ☐ Adult Signature ☐ Priority Mail Express®
☐ Adult Signature Restricted Delivery ☐ Registered Mail™
☒ Certified Mail® ☐ Registered Mail Restricted Delivery
☐ Certified Mail Restricted Delivery ☐ Signature Confirmation
☐ Collect on Delivery ☐ Signature Confirmation Restricted Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over \$500)

SENDER: COMPLETE THIS SECTION

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

1. Article Addressed to:

APPLEGATE CHAD
3033 MOOREFIELD RD
CARLISLE, KY 40311



9590 9402 7926 2305 8727 15

2. Article Number (Transfer from service label)

9589 0710 5270 4074 9056 88

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X C. Applegate

☐ 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:

PETERSON DON R EST & LINDA S
2673 CANE RUN RD
CARLISLE, KY 40311



9590 9402 7926 2305 8727 84

2. Article Number (Transfer from service label)

9589 0710 5270 4074 9057 49

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Donald J. Peterson

☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

8-14-26

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ 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:

TAPP E WAYNE
2600 CANE RUN RD
CARLISLE, KY 40311



9590 9402 7926 2305 8728 07

2. Article Number (Transfer from service label)

9589 0710 5270 4074 9057 25

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

Domestic Return Receipt

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X T. Wayne

☐ Agent
☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery

8-14-26

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

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ 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:

VICE STEVE L
2928 MOOREFIELD RD
CARLISLE, KY 40311



9590 9402 7926 2305 8727 39

2. Article Number (Transfer from service label)

9589 0710

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *S. Vice*☐ Agent☐ Address

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

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

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

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

Addressed to:

VICE MARK A
4452 MOOREFIELD RD
CARLISLE, KY 40311



9590 9402 7926 2305 8727 53

2. Article Number (Transfer from service label)

9589 0710 5270 4074 9057 01

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X *Shonda Mark*☐ Agent☐ Address

B. Received by (Printed Name)

Shonda Mark

C. Date of Delivery

8/14/26

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

3. Service Type

☐ Adult Signature☐ Adult Signature Restricted Delivery☒ Certified Mail®☐ Certified Mail Restricted Delivery☐ Collect on Delivery☐ Collect on Delivery Restricted Delivery☐ Insured Mail☐ Insured Mail Restricted Delivery (over \$500)☐ Priority Mail Express®☐ Registered Mail™☐ Registered Mail Restricted Delivery☐ Signature Confirmation☐ Signature Confirmation Restricted Delivery

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

Domestic Return Receipt

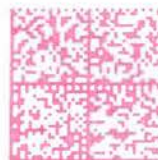
Pike
P. O. Box 369
Shepherdsville, KY 40165

CERTIFIED MAIL®



9589 0710 5270 4074 9057 87

FIRST-CLASS



US POSTAGE and PITNEY BOWES

ZIP 40165
02 7H
0006034260

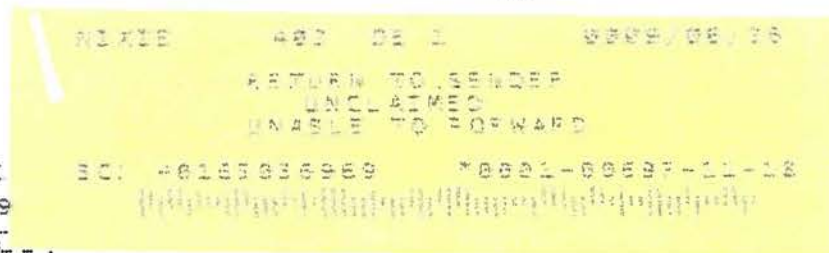
\$ 010.98⁰

AUG 10 2026

MYNEAR STEVEN C & MYNEAR
JOHNNY K
194 LOCUST GROVE RD
CARLISLE, KY 40311

*Notice
left
8-13-26
JS*

*8/13/26
P.D
8-28*



40165-0369
4031103125 RL

Pike
P. O. Box 369
Shepherdsville, KY 40165

12
9/8

LN 8/13

JOHNSON LOGAN
3433 MOOREFIELD RD
CARLISLE, KY 40311

CERTIFIED MAIL



9589 0710 5270 4074 9057 56

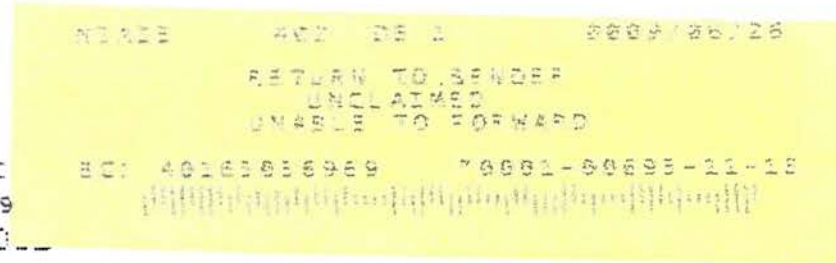
FIRST-CLASS



US POSTAGE PITNEY BOWES

ZIP 40165 \$ 010.98⁰
02 7H
0006034260 AUG 10 2026

UNC
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4031189477 RD--



Pike
P. O. Box 369
Shepherdsville, KY 40165

9/11



9589 0710 5270 4074 9056 71

FIRST-CLASS



US POSTAGE PITNEY BOWES

ZIP 40165 \$ 010.98⁰
02 7H
0006034260 AUG 10 2026

6/11/13

CAMPBELL CHARLIE G
3133 MOOREFIELD RD
CARLISLE, KY 40311

NO POSTAGE
NECESSARY
IF MAILED
IN THE
UNITED STATES

RETURN TO SENDER
UNLESS INDICATED
OTHERWISE

UNC

BC: 40165036969 0001-00000-11-18

40165-0369
40311-03475 H

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:

Harmoni Towers Gateway, LLC 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 Cane Run Road, Carlisle, KY 40311 (38° 17' 49.37" North latitude, 83° 57' 05.48" West longitude). The proposed facility will include a 160-foot-tall tower with a 4-foot tall lightning arrestor attached at the top for a total height of 164 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 2026-00216 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 LV Moorefield Road.

Sincerely,
Robert W. Grant
Attorney for Applicant

enclosures



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



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

Steve Hamilton
County Judge Executive
PO Box 167
Carlisle, KY 40311

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2026-00216

Dear Judge/Executive:

Harmoni Towers Gateway, LLC 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 Cane Run Road, Carlisle, KY 40311 (38° 17' 49.37" North latitude, 83° 57' 05.48" West longitude). The proposed facility will include a 160-foot-tall tower with a 4-foot tall lightning arrestor attached at the top for a total height of 164 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 2026-00216 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 LV Moorefield Road.

Sincerely,
Robert W. Grant
Attorney for Applicants

Enclosures



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



9589 0710 5270 4074 9055 27

U.S. Postal Service	
CERTIFIED MAIL® RECEIPT	
Domestic Mail Only	
For delivery information, visit our website at www.usps.com ®.	
OFFICIAL SHEPHERDSTOWN KY	
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	\$
Postage	\$
To	Steve Hamilton
	County Judge Executive
	PO Box 167
	Carlisle, KY 40311
PS Form 3800, January 2023 PSN 7530-02-000-9055 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:

Steve Hamilton
County Judge Executive
PO Box 167
Carlisle, KY 40311



9590 9402 7926 2305 8727 08

2. Article Number (Transfer from service label)

9589 0710 5270 4074 9055 27

COMPLETE THIS SECTION ON DELIVERY

A. Signature

x *Martha Moss* ☐ Agent
☐ Addressee

B. Received by (Printed Name)

Martha Moss C. Date of Delivery *8/13/24*

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

3. Service Type

- | | |
|--|---|
| ☐ Adult Signature | ☐ Priority Mail Express® |
| ☐ Adult Signature Restricted Delivery | ☐ Registered Mail™ |
| ☒ Certified Mail® | ☐ Registered Mail Restricted Delivery |
| ☐ Certified Mail Restricted Delivery | ☐ Signature Confirmation |
| ☐ Collect on Delivery | ☐ Signature Confirmation Restricted Delivery |
| ☐ Collect on Delivery Restricted Delivery | |
| ☐ Insured Mail | |
| ☐ Insured Mail Restricted Delivery (over \$500) | |

EXHIBIT M

**COPY OF POSTED NOTICES,
NEWSPAPER NOTICE ADVERTISEMENT TEAR SHEET &
AFFIDAVIT**

SITE NAME: LV MOOREFIELD ROAD
NOTICE SIGNS

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

Harmoni Towers Gateway, LLC 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 2026-00216 in your correspondence.

Harmoni Towers Gateway, LLC 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 2026-00216 in your correspondence.

**We accept ALL
MAJOR CREDIT
CARDS**

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Brandon Wayne Coy,
enhancement tics 1st

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dence,

NOTICE

Harmoni Towers Gateway, LLC 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 Cane Run Road, Carlisle, KY 40311 (38° 17' 49.37" North latitude, 83° 57' 05.48" West longitude). 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 2026-00216 in any correspondence sent in connection with this matter.

Published in the Carlisle Mercury on 08.12.26

Notice is
Missouri
Cabinet to
in Nichols
an access
northwest
Any comr
ky.gov. Ka
Blvd. Fran

Darwin's Sr

Affidavit of Publication

I, Petrea Allison, hereby certify that I am
Graphic Designer of the The Carleide Mercury. I certify
that the attached clipping of the advertisement is a true copy of
said advertisement in the said Newspaper on
Aug 12, 2026.

In Testimony whereof, witness my signature this 12 day
of Aug 2026.

The Newspaper Office

BY Petrea Allison

Subscribed and sworn to before me this 12 day of
Aug 2026

My Commission expires: Nov 9, 2027

Melvin Milner
Notary Public

EXHIBIT N

COPY OF RADIO FREQUENCY DESIGN SEARCH AREA

KY0007119 MOOREFIELD ROAD – SEARCH AREA

