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

In the Matter of:

THE APPLICATION OF )  
CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS )  
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC ) CASE NO.: 2020-00105  
CONVENIENCE AND NECESSITY TO CONSTRUCT )  
A WIRELESS COMMUNICATIONS FACILITY )  
IN THE COMMONWEALTH OF KENTUCKY )  
IN THE COUNTY OF BALLARD )

SITE NAME: BARLOW SE

\*\*\*\*\*

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

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

In support of this Application, Applicant respectfully provides and states the following information:

1. The complete name and address of the Applicant is Cellco Partnership d/b/a Verizon Wireless having an address of One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920.

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

3. Applicant entity is a Delaware general partnership, and a copy of an Amended Certificate of Assumed Name for Applicant entity on file with the Kentucky Secretary of State is attached as part of **Exhibit A**.

4. Verizon Wireless operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of Verizon Wireless' FCC 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. Horvath Communications will build, own and manage the tower and tower compound where Verizon Wireless will place its equipment building, antennas, radio electronics equipment and appurtenances.

5. 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.

6. To address the above-described service needs, Applicant proposes to construct a WCF at Wayside Inn Road, Wickliffe, KY 42087 (37° 01' 45.61" North latitude, 89° 00' 07.63" 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 Lorea and Kenny Turner, pursuant to a Deed recorded at Deed Book 77, Page 464 in the office of the Ballard County Clerk. The proposed WCF will consist of a 290-foot tall tower, with an approximately 5-foot tall lightning arrestor attached at the top, for a total height of 295-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of Verizon Wireless' radio electronics equipment and appurtenant equipment. Verizon Wireless' 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**.

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

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

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

10. Applicant has considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Verizon Wireless' antennas on an existing structure. When suitable towers or structures exist, Applicant attempts to co-locate on existing structures such as communications towers or other structures capable of supporting Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

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

12. A copy of the approval from the Kentucky Airport Zoning Commission ("KAZC") to construct the proposed tower is attached as **Exhibit F**.

13. 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.

14. 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.

15. Applicant, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit I**.

16. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced. The tower and foundation drawings for the proposed tower submitted as part of **Exhibit 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.

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

18. 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.

19. **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**.

20. Applicant has notified every person who, according to the records of the

County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. Each notified property owner has been provided with a map of the location of the proposed construction, the PSC docket number for this application, the address of the PSC, and 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.

21. Applicant has notified the applicable County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the County Judge/Executive of his/her right to request intervention. A copy of this notice is attached as **Exhibit L**.

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

23. The general area where the proposed facility is to be located is rural and

sparsely populated. There are no existing residential structures located within 500' of the proposed tower location.

24. 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 Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by Verizon Wireless. 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**.

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

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

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

David A. Pike  
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

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

Respectfully submitted,



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David A. Pike  
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  
Attorney for Applicant



## **LIST OF EXHIBITS**

- A - Applicant Entity & FCC License Documentation**
- B - Site Development Plan:**
  - 500' Vicinity Map**
  - Legal Descriptions**
  - Flood Plain Certification**
  - Site Plan**
  - Vertical Tower Profile**
- C - Tower and Foundation Design**
- D - Competing Utilities, Corporations, or Persons List**
- E - FAA**
- F - Kentucky Airport Zoning Commission**
- G - Geotechnical Report**
- H - Directions to WCF Site**
- I - Copy of Real Estate Agreement**
- J - Notification Listing**
- K - Copy of Property Owner Notification**
- L - Copy of County Judge/Executive Notice**
- M - Copy of Posted Notices and Newspaper Notice Advertisement**
- N - Copy of Radio Frequency Design Search Area**

**EXHIBIT A**  
**APPLICANT ENTITY & FCC LICENSE DOCUMENTATION**

0641227.07

mstratton  
AMD

Allison Lundergan Grimes  
Kentucky Secretary of State  
Received and Filed:  
6/12/2018 2:15 PM  
Fee Receipt: \$20.00



**COMMONWEALTH OF KENTUCKY**  
**ALISON LUNDERGAN GRIMES, SECRETARY OF STATE**

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

**Amended Certificate of Assumed Name**  
(Domestic or Foreign Business Entity)

**AAN**

Pursuant to the provisions of KRS 365, the undersigned applies to amend the certificate of assumed name and, for that purpose, submits the following statement:

1. The assumed name is Verizon Wireless  
(The name must be identical to the name on record with the Secretary of State.)

2. The certificate of assumed name was filed with the Secretary of State on: 6/21/2006

3 The current principal office address (if any) is:

<u>One Verizon Way</u>	<u>Basking Ridge</u>	<u>NJ</u>	<u>07960</u>
Street Address or Post Office Box Numbers	City	State	Zip

4. The principal office address is hereby changed to:

Street Address or Post Office Box Numbers	City	State	Zip
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5. This application will be effective upon filing, unless a delayed effective date and/or time is provided. The effective date or the delayed effective date cannot be prior to the date the application is filed. The date and/or time is \_\_\_\_\_  
(Delayed effective date and/or time)

6. The changes in the identity of the partners are as follows: See Addendum for current partners

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

GTE Wireless LLC

J. Daniel Mason  
Signature of Applicant

J. Daniel Mason  
Printed Name

Assistant Secretary  
Title

6/11/2018  
Date

## Addendum

The full name of the Partnership is Cellco Partnership, a Delaware general partnership composed of the following partners:

<i>General Partners of Cellco Partnership</i>	<i>Address</i>
Bell Atlantic Mobile Systems LLC	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless LLC	One Verizon Way Basking Ridge, NJ 07920
Verizon Americas Inc.	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless of the Midwest Incorporated	One Verizon Way Basking Ridge, NJ 07920

**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: CELLCO PARTNERSHIP

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

<b>Call Sign</b> KNKN568	<b>File Number</b>
<b>Radio Service</b> CL - Cellular	
<b>Market Number</b> CMA522	<b>Channel Block</b> A
<b>Sub-Market Designator</b> 0	

FCC Registration Number (FRN): 0003290673

<b>Market Name</b> Missouri 19 - Stoddard
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<b>Grant Date</b> 08-31-2010	<b>Effective Date</b> 11-01-2016	<b>Expiration Date</b> 10-01-2020	<b>Five Yr Build-Out Date</b>	<b>Print Date</b>
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**Site Information:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	36-49-50.0 N	089-58-20.0 W	163.3	96.3	1005093

Address: (Dexter) CR 415

City: DEXTER County: STODDARD State: MO Construction Deadline:

**Antenna: 1**

<b>Maximum Transmitting ERP in Watts:</b> 140.820								
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	131.300	112.700	156.500	162.600	151.100	151.000	148.600	136.300
<b>Transmitting ERP (watts)</b>	535.920	228.610	30.140	3.790	1.070	3.080	30.840	233.940

**Antenna: 4**

<b>Maximum Transmitting ERP in Watts:</b> 140.820								
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	131.300	112.700	156.500	162.600	151.100	151.000	148.600	136.300
<b>Transmitting ERP (watts)</b>	6.150	64.430	370.760	488.760	119.980	14.420	1.690	1.070

**Antenna: 5**

<b>Maximum Transmitting ERP in Watts:</b> 140.820								
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	131.300	112.700	156.500	162.600	151.100	151.000	148.600	136.300
<b>Transmitting ERP (watts)</b>	6.750	1.070	1.350	14.760	131.550	488.760	370.760	61.330

**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: CELLCO PARTNERSHIP

Call Sign: KNKN568

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	36-45-46.2 N	090-26-03.4 W	130.0		

Address: 2.33 MILES WEST OF

City: POPLAR BLUFF County: BUTLER State: MO Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 149.500

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	141.600	150.000	167.900	165.300	169.800	148.300	150.600	122.700
Transmitting ERP (watts)	127.400	126.300	124.500	168.000	55.600	27.500	38.000	40.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
3	36-21-01.2 N	089-49-54.3 W			

Address: 0.8 MILES WEST OF

City: WARDELL County: PEMISCOT State: MO Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 55.100

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	54.700	52.900	53.100	53.900	57.300	57.800	56.200	55.000
Transmitting ERP (watts)	140.100	133.800	47.500	30.000	119.300	172.400	38.600	54.500

Antenna: 2

Maximum Transmitting ERP in Watts: 49.300

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	48.900	47.100	47.300	48.100	51.500	52.000	50.400	49.300
Transmitting ERP (watts)	113.900	189.000	32.100	60.900	116.500	158.600	70.200	27.300

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	36-12-53.2 N	090-03-50.3 W			

Address: East side of County Road 504 1/2 mile South of

City: Kennett County: DUNKLIN State: MO Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 36.800

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	34.300	35.800	37.700	39.400	39.300	36.400	36.700	34.700
Transmitting ERP (watts)	32.300	227.300	267.600	206.100	265.600	181.800	19.200	10.300

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN568

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	37-12-06.2 N	089-38-07.3 W	480.0		

Address: 0.4 miles east of Route M at Rockview, 1.6 miles NE of  
City: Chaffee County: SCOTT State: MO Construction Deadline:

Antenna: 1  
Maximum Transmitting ERP in Watts: 97.900  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 97.600 107.600 96.400 89.000 85.700 114.400 102.300 90.500  
Transmitting ERP (watts) 24.300 2.800 3.300 27.800 86.400 95.300 95.200 76.900

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	36-32-33.2 N	090-01-49.3 W	88.0		

Address: 150' West of end of County Rd. 208 3.2 miles Southwest of  
City: Malden County: DUNKLIN State: MO Construction Deadline:

Antenna: 1  
Maximum Transmitting ERP in Watts: 67.300  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 68.500 71.400 73.000 73.600 73.100 63.700 58.700 56.500  
Transmitting ERP (watts) 163.000 160.000 162.000 110.000 49.000 38.000 49.000 116.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	36-57-05.2 N	089-04-53.2 W	137.2		

Address: Approx. 1 mile SSE of  
City: Wickliffe County: BALLARD State: KY Construction Deadline:

Antenna: 1  
Maximum Transmitting ERP in Watts: 63.400  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 69.800 44.200 51.500 60.000 45.700 78.600 77.700 79.600  
Transmitting ERP (watts) 0.500 33.000 283.800 425.600 77.600 2.300 0.400 1.200

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	36-10-08.2 N	089-38-52.3 W	82.0		

Address: 600' West of end of Route 363, 0.6 miles Southeast of  
City: Caruthersville County: PEMISCOT State: MO Construction Deadline:

Antenna: 1  
Maximum Transmitting ERP in Watts: 43.700  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 43.100 43.300 43.500 44.000 45.600 44.000 44.200 41.900  
Transmitting ERP (watts) 38.000 9.000 2.000 3.000 23.000 56.000 57.000 57.000

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN568

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	36-38-57.2 N	089-32-59.3 W	91.0		

Address: Southwest corner of intersection of US Hwy. 61/62 and, County Rd. 634, north of  
City: New Madrid County: NEW MADRID State: MO Construction Deadline:

Antenna: 1  
Maximum Transmitting ERP in Watts: 65.700  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 60.200 63.700 65.000 65.400 69.000 67.400 68.200 66.800  
Transmitting ERP (watts) 331.000 54.000 12.000 22.000 151.000 349.000 266.000 311.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	36-55-17.2 N	089-29-57.3 W			

Address: 3.3 MILES NE OF  
City: SIKESTON County: SCOTT State: MO Construction Deadline:

Antenna: 1  
Maximum Transmitting ERP in Watts: 66.100  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 64.000 65.000 65.000 66.000 69.000 67.000 65.000 65.000  
Transmitting ERP (watts) 414.000 50.000 3.000 0.800 1.000 0.800 13.000 156.000

Antenna: 2  
Maximum Transmitting ERP in Watts: 66.100  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 64.000 65.000 65.000 66.000 69.000 67.000 65.000 65.000  
Transmitting ERP (watts) 0.700 16.000 196.000 372.000 36.000 2.000 0.700 0.800

Antenna: 3  
Maximum Transmitting ERP in Watts: 66.100  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 64.000 65.000 65.000 66.000 69.000 67.000 65.000 65.000  
Transmitting ERP (watts) 0.700 1.000 0.700 2.000 37.000 364.000 223.000 14.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	37-12-25.5 N	089-30-44.0 W	128.6	50.3	1200145

Address: County Road 312  
City: Scott City County: SCOTT State: MO 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) 66.200 59.100 39.900 67.800 52.300 50.500 65.700 59.600  
Transmitting ERP (watts) 21.800 5.200 16.200 80.900 97.700 88.900 100.000 84.700



Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN568

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	36-45-47.0 N	090-26-05.2 W	122.8	143.2	1229586

Address: 2579 Roxie Road

City: Poplar Bluff County: BUTLER State: MO 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)	133.200	142.300	160.400	157.800	162.400	140.300	122.900	115.500
Transmitting ERP (watts)	150.000	109.420	29.180	3.680	0.890	3.110	27.360	112.740

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)	133.200	142.300	160.400	157.800	162.400	140.300	122.900	115.500
Transmitting ERP (watts)	6.590	50.710	132.770	139.990	80.370	15.140	1.120	0.480

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)	133.200	142.300	160.400	157.800	162.400	140.300	122.900	115.500
Transmitting ERP (watts)	16.500	0.310	0.300	10.170	68.980	31.590	28.500	70.890

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	36-47-19.2 N	089-32-50.5 W	95.4	67.1	1262445

Address: County Road 820

City: Matthews County: NEW MADRID State: MO Construction Deadline: 12-18-2009

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)	63.400	63.200	65.000	67.100	64.100	68.200	67.100	64.100
Transmitting ERP (watts)	167.100	215.270	47.100	0.470	0.470	0.470	0.470	15.590

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)	63.400	63.200	65.000	67.100	64.100	68.200	67.100	67.100
Transmitting ERP (watts)	0.190	0.320	33.340	93.970	51.640	1.030	0.280	0.190

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)	63.400	63.200	65.000	67.100	64.100	68.200	67.100	64.100
Transmitting ERP (watts)	0.470	0.470	0.470	0.470	9.620	145.540	225.410	66.250

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN568

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	36-56-14.5 N	089-13-16.3 W	95.4	50.0	

Address: 1070 North Highway Y

City: Charleston County: MISSISSIPPI State: MO Construction Deadline: 06-11-2010

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)	45.700	47.800	47.500	47.000	48.100	46.000	44.400	46.700
Transmitting ERP (watts)	0.670	13.980	29.890	4.850	0.220	0.100	0.100	0.100
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)	45.700	47.800	47.500	47.000	48.100	46.000	44.400	46.700
Transmitting ERP (watts)	0.380	0.380	1.370	32.920	131.080	32.920	1.610	0.380
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)	45.700	47.800	47.500	47.000	48.000	46.000	44.400	46.700
Transmitting ERP (watts)	56.360	3.100	0.490	0.490	0.490	1.350	32.430	166.330

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	36-39-51.9 N	090-31-24.3 W	125.5	94.1	1247558

Address: U.S. Hwy 67 @ U.S. Highway 160

City: Neelyville County: BUTLER State: MO Construction Deadline: 06-11-2010

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)	98.500	106.300	121.100	124.700	125.300	121.900	82.500	91.200
Transmitting ERP (watts)	205.880	87.820	7.830	0.450	0.410	1.790	15.620	89.870
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)	98.500	106.300	124.700	124.700	125.300	121.900	82.500	91.200
Transmitting ERP (watts)	4.610	30.450	132.930	192.140	45.040	2.780	0.710	0.610

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	36-33-25.3 N	089-49-01.0 W	83.8	80.8	1268585

Address: (Risco site) Highway 62 & NE corner of Rogers Road

City: Risco County: NEW MADRID State: MO Construction Deadline: 04-28-2011

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)	74.300	75.300	76.800	77.400	78.400	78.100	75.700	75.500
Transmitting ERP (watts)	219.270	102.560	0.870	0.460	0.440	0.440	1.950	95.710

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN568

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	36-33-25.3 N	089-49-01.0 W	83.8	80.8	1268585

Address: (Risco site) Highway 62 & NE corner of Rogers Road

City: Risco County: NEW MADRID State: MO Construction Deadline: 04-28-2011

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) 74.300 75.300 76.800 77.400 78.400 78.100 75.700 75.500

Transmitting ERP (watts) 0.440 14.490 155.230 199.970 43.750 0.440 0.440 0.440

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) 74.300 75.300 76.800 77.400 78.400 78.100 75.700 75.500

Transmitting ERP (watts) 0.710 0.440 0.440 0.440 42.750 199.970 158.850 11.780

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
21	36-54-24.0 N	089-19-11.1 W	97.5	50.0	

Address: (Charleston) 5801 North 325th Road

City: Charleston County: MISSISSIPPI State: MO Construction Deadline: 06-06-2014

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) 49.300 50.600 50.100 52.600 51.500 50.500 48.900 46.900

Transmitting ERP (watts) 115.240 138.550 39.960 1.450 0.300 0.300 0.450 18.260

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) 49.300 50.600 50.100 52.600 51.500 50.500 48.900 46.900

Transmitting ERP (watts) 0.300 1.520 40.890 141.780 112.620 16.280 0.530 0.300

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) 49.300 50.600 50.100 52.600 51.500 50.500 48.900 46.900

Transmitting ERP (watts) 6.050 0.410 0.300 0.300 6.190 76.140 151.920 76.140

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	36-27-17.7 N	089-38-26.4 W	85.9	79.6	1233494

Address: (Portageville) 2470 County Road 421

City: Portageville County: NEW MADRID State: MO Construction Deadline: 06-06-2014

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) 77.300 75.600 77.900 77.800 78.000 78.300 79.100 78.700

Transmitting ERP (watts) 102.240 91.120 18.180 0.310 0.310 0.310 0.560 25.680

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN568

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	36-27-17.7 N	089-38-26.4 W	85.9	79.6	1233494

Address: (Portageville) 2470 County Road 421  
City: Portageville County: NEW MADRID State: MO Construction Deadline: 06-06-2014

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) 77.300 75.600 77.900 77.800 78.000 78.300 79.100 78.700  
Transmitting ERP (watts) 0.310 0.310 0.560 25.680 102.240 91.120 18.180 0.310

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) 77.300 75.600 77.900 77.800 78.000 78.300 79.100 78.700  
Transmitting ERP (watts) 23.970 0.760 0.310 0.310 0.910 33.080 134.780 122.920

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	36-07-34.0 N	090-10-28.9 W	77.4	44.2	

Address: (Senath) 9353 Hwy C  
City: Senath County: DUNKLIN State: MO Construction Deadline: 12-26-2014

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) 39.000 38.000 41.500 42.700 43.100 41.800 41.700 40.300  
Transmitting ERP (watts) 30.910 27.440 5.820 0.420 0.400 0.400 0.650 5.960

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) 39.000 38.000 41.500 42.700 43.100 41.800 41.700 40.300  
Transmitting ERP (watts) 0.350 11.680 125.180 161.260 35.280 0.350 0.350 0.350

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) 39.000 38.000 41.500 42.700 43.100 41.800 41.700 40.300  
Transmitting ERP (watts) 0.400 0.400 0.400 0.810 8.170 33.560 23.960 4.310

**Control Points:**

**Control Pt. No. 1**

Address: 500 West Dove Road

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

**Waivers/Conditions:**

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

**REFERENCE COPY**

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**Federal Communications Commission  
Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: KENTUCKY RSA NO. 1 PARTNERSHIP

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

<b>Call Sign</b> KNKQ306	<b>File Number</b>
<b>Radio Service</b> CL - Cellular	
<b>Market Numer</b> CMA443	<b>Channel Block</b> B
<b>Sub-Market Designator</b> 0	

FCC Registration Number (FRN): 0001836709

<b>Market Name</b> Kentucky 1 - Fulton
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<b>Grant Date</b> 08-30-2011	<b>Effective Date</b> 11-02-2016	<b>Expiration Date</b> 10-01-2021	<b>Five Yr Build-Out Date</b>	<b>Print Date</b>
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**Site Information:**

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

Address: 0.68 MILE SOUTH OF LASSITER CORNER & REEL FOOT LAKE  
City: LASSITER CORNER County: LAKE State: TN Construction Deadline:

**Antenna: 1**

Maximum Transmitting ERP in Watts: 135.800								
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	148.000	117.000	107.000	117.000	121.000	147.000	149.000	146.000
Transmitting ERP (watts)	133.300	103.500	36.500	4.500	1.500	3.900	38.800	109.600

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

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number:

Print Date:

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

Address: 416 Jimtown Road

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

Antenna: 2

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

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

Address: (Wickliffe) 353 CR 1307

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

Antenna: 4

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

Antenna: 5

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

Antenna: 6

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

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

Address: (Fulton) 550 Powell Road

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

Antenna: 4

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

Antenna: 5

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

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number:

Print Date:

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

Address: (Fulton) 550 Powell Road  
City: Fulton County: HICKMAN State: KY Construction Deadline:

Antenna: 6  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 128.200 122.800 123.200 135.200 147.500 157.200 143.900 141.700  
Transmitting ERP (watts) 135.480 5.650 2.230 0.920 1.320 5.450 78.640 402.820

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

Address: (Murray) 1431 Van Cleave Road  
City: Murray County: CALLOWAY State: KY Construction Deadline:

Antenna: 4  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 106.900 107.100 115.000 106.900 87.400 91.300 86.200 97.500  
Transmitting ERP (watts) 124.240 6.420 0.560 0.560 0.560 0.830 39.630 251.940

Antenna: 5  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 106.900 107.100 115.000 106.900 87.400 91.300 86.200 97.500  
Transmitting ERP (watts) 3.450 96.460 263.070 57.230 1.700 0.560 0.560 0.560

Antenna: 6  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 106.900 107.100 115.000 106.900 87.400 91.300 86.200 97.500  
Transmitting ERP (watts) 0.370 0.370 0.370 12.730 121.110 104.340 9.310 0.370

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

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

Antenna: 2  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 85.600 78.400 71.900 66.000 65.300 67.000 87.700 96.100  
Transmitting ERP (watts) 2.110 71.430 167.460 63.670 0.330 0.640 0.330 0.330

Antenna: 3  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 85.600 78.400 71.900 66.000 65.300 67.000 87.700 96.100  
Transmitting ERP (watts) 1.230 1.000 1.380 23.440 338.840 457.090 66.070 2.240

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number:

Print Date:

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

Address: (La Center) 220 RICHARDSON LN

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

Antenna: 4

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

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

Address: 3975 State Route 2206

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

Antenna: 2

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

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

Address: (Calvert City) 641 Jary Johnson Rd.

City: Calvert City County: MARSHALL State: KY Construction Deadline:

Antenna: 2

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

Antenna: 3

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

Antenna: 4

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



Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number:

Print Date:

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

Address: 12201 SR 97  
City: TriCity County: GRAVES State: KY Construction Deadline:

**Antenna: 2**  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 75.100 73.400 74.100 70.100 102.600 100.900 74.700 81.300  
Transmitting ERP (watts) 0.280 4.680 67.610 91.200 13.180 0.450 0.250 0.200

**Antenna: 3**  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 75.100 73.400 74.100 70.100 102.600 100.900 74.700 81.300  
Transmitting ERP (watts) 0.360 0.200 0.200 0.350 18.200 89.130 66.070 2.630

**Antenna: 4**  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 75.100 73.400 74.100 70.100 102.600 100.900 74.700 81.300  
Transmitting ERP (watts) 100.000 38.020 0.200 0.380 0.200 0.200 1.260 42.660

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

Address: (Paducah West) 4415 Merredith Rd.  
City: Paducah County: MCCRACKEN State: KY Construction Deadline: 07-08-2014

**Antenna: 4**  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 59.900 55.900 65.200 50.700 38.200 34.700 42.800 64.600  
Transmitting ERP (watts) 24.580 50.820 50.310 19.100 0.840 0.330 0.330 1.370

**Antenna: 5**  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 59.900 55.900 65.200 50.700 38.200 34.700 42.800 64.600  
Transmitting ERP (watts) 0.440 0.440 12.210 76.570 112.800 57.980 5.460 0.440

**Antenna: 6**  
Maximum Transmitting ERP in Watts: 140.820  
Azimuth(from true north) 0 45 90 135 180 225 270 315  
Antenna Height AAT (meters) 59.900 55.900 65.200 50.700 38.200 34.700 42.800 64.600  
Transmitting ERP (watts) 20.830 0.780 0.440 0.440 2.790 42.940 108.040 89.900

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number:

Print Date:

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

Address: 14664 Canton Road

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

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

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

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

Address: (Hickman site) Holley Street

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

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

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

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

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

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

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

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

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

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

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

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

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

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

Licensee Name: KENTUCKY RSA NO. 1 PARTNERSHIP

Call Sign: KNKQ306

File Number:

Print Date:

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

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

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

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

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

Control Points:

Control Pt. No. 3

Address: 500 W. Dove Rd.

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

Waivers/Conditions:

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Table with Call Sign (KNLH404), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003290673

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

Waivers/Conditions:

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

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

Conditions:

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

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

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** KNLH404

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Federal Communications Commission  
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

<b>Call Sign</b> WQGA718	<b>File Number</b> 0007518718
<b>Radio Service</b> AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 11-29-2006	<b>Effective Date</b> 12-13-2016	<b>Expiration Date</b> 11-29-2021	<b>Print Date</b> 02-04-2017
<b>Market Number</b> REA004	<b>Channel Block</b> F	<b>Sub-Market Designator</b> 15	
<b>Market Name</b> Mississippi Valley			
<b>1st Build-out Date</b>	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

Conditions:

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

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

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQGA718

**File Number:** 0007518718

**Print Date:** 02-04-2017

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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**Federal Communications Commission  
Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: CELLCO PARTNERSHIP

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

<b>Call Sign</b> WQGA960	<b>File Number</b>
<b>Radio Service</b> AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 11-29-2006	<b>Effective Date</b> 11-01-2016	<b>Expiration Date</b> 11-29-2021	<b>Print Date</b>
<b>Market Number</b> BEA072	<b>Channel Block</b> B	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Paducah, KY-IL			
<b>1st Build-out Date</b>	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

**Waivers/Conditions:**

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

**Conditions:**

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

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



**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQGA960

**File Number:**

**Print Date:**

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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**Federal Communications Commission  
Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: GELCO PARTNERSHIP

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

<b>Call Sign</b> WQJQ692	<b>File Number</b> 0008587218
<b>Radio Service</b> WU - 700 MHz Upper Band (Block C)	

FCC Registration Number (FRN): 0003290673

<b>Grant Date</b> 01-10-2020	<b>Effective Date</b> 01-10-2020	<b>Expiration Date</b> 06-13-2029	<b>Print Date</b> 01-14-2020
<b>Market Number</b> REA004	<b>Channel Block</b> C	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Mississippi Valley			
<b>1st Build-out Date</b> 06-13-2013	<b>2nd Build-out Date</b> 06-13-2019	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

**Waivers/Conditions:**

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

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

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

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

**Licensee Name:** CELLCO PARTNERSHIP

**Call Sign:** WQJQ692

**File Number:** 0008587218

**Print Date:** 01-14-2020

**700 MHz Relicensed Area Information:**

<b>Market</b>	<b>Market Name</b>	<b>Buildout Deadline</b>	<b>Buildout Notification</b>	<b>Status</b>
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Reference Copy

**EXHIBIT B**

**SITE DEVELOPMENT PLAN:**

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



312 WEST COLFAX AVE  
SOUTH BEND, IN 46601

# BARLOW SE

## HV1388

WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY

TENANT: KENTUCKY RSA 1 PSHP d/b/a VERIZON WIRELESS  
"EV BARLOW SE"

FROM BALLARD COUNTY CIRCUIT CLERK: 132 4TH ST, WICKLIFFE, KY 42087: HEAD SOUTH ON 4TH ST TOWARD COURT ST (197 FEET). TURN LEFT AT THE 1ST CROSS STREET ONTO COURT ST (0.4 MILES). TURN LEFT ONTO KY-286/PHILLIPS DR (1.2 MILES). TURN LEFT ONTO BUCK RD (0.4 MILES). TURN RIGHT ONTO KY-1290 (4.0 MILES). TURN LEFT ONTO S WAYSIDE INN RD (1.6 MILES). SITE WILL BE LOCATED ON RIGHT (EAST) SIDE OF ROAD.

FROM EVANSVILLE MTSO: 800 RUSSELL ROAD CHANDLER, IN 47610: HEAD WEST ON RUSSELL RD (0.2 MI). TURN RIGHT AT THE 1ST CROSS STREET TO STAY ON RUSSELL RD (0.3 MI). TURN LEFT ONTO GARDNER RD (1.6 MI). TURN LEFT ONTO IN-62 (4.2 MI). TURN RIGHT ONTO THE I-164 S RAMP (0.3 MI). MERGE ONTO I-69 S (8.1 MI). TAKE EXIT 0 TO MERGE ONTO US-41 S TOWARD HENDERSON KY (1.0 MI). MERGE ONTO US-41 S (6.1 MI). KEEP LEFT TO STAY ON US-41 S (2.4 MI). KEEP LEFT TO CONTINUE ON PENNYRILE PKWY, FOLLOW SIGNS FOR OWENSBORO (1.1 MI). CONTINUE ONTO I-69/PENNYRILE PKWY (42.6 MI). KEEP RIGHT AT THE FORK TO STAY ON I-69, FOLLOW SIGNS FOR PADUCAH (38.4 MI). TAKE EXIT 68B FOR INTERSTATE 24 W TOWARD PADUCAH (0.3 MI). MERGE ONTO I-24 W/I-69 S (15.9 MI). KEEP RIGHT TO CONTINUE ON I-24 W (20.9 MI). TAKE EXIT 4 FOR US-60 TOWARD I-24/WICKLIFFE/PADUCAH (0.2 MI). USE THE LEFT 2 LANES TO TURN LEFT ONTO US-60 W/HINKLEVILLE RD (SIGNS FOR WICKLIFFE) (18.4 MI). TURN LEFT ONTO WAYSIDE INN RD (2.5 MI). SITE WILL BE LOCATED ON LEFT (EAST) SIDE OF ROAD.

PREPARED BY: POWER OF DESIGN GROUP, LLC - (502) 437-5252



312 WEST COLFAX AVE  
SOUTH BEND, IN 46601

03/26/2020



EN PERMIT: 3594

### ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.16.20	ISSUED FOR REVIEW
0	3.26.20	ISSUED AS FINAL

### SITE INFORMATION: BARLOW SE

WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY

HORVATH SITE NUMBER:  
HV1388

VERIZON WIRELESS SITE NAME:  
EV BARLOW SE

POD NUMBER: 19-42124

DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 03.10.20

SHEET TITLE:

PROJECT INFORMATION, SITE MAPS, SHEET INDEX

SHEET NUMBER:

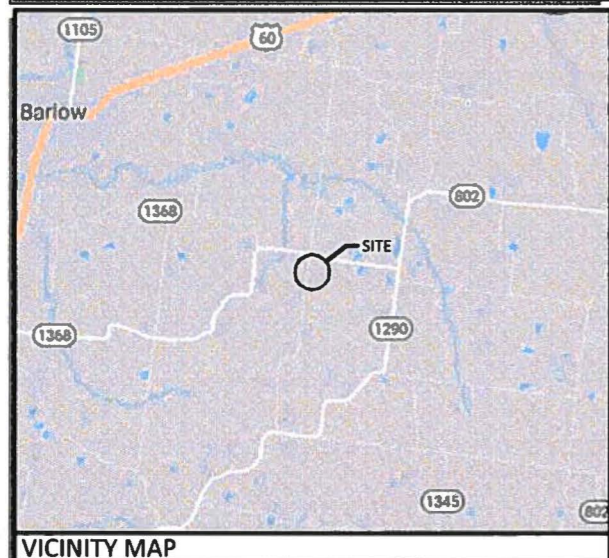
T-1

## NEW 290' SELF SUPPORT TOWER w/5' LIGHTNING ARRESTOR TOTAL TOWER HEIGHT 295'

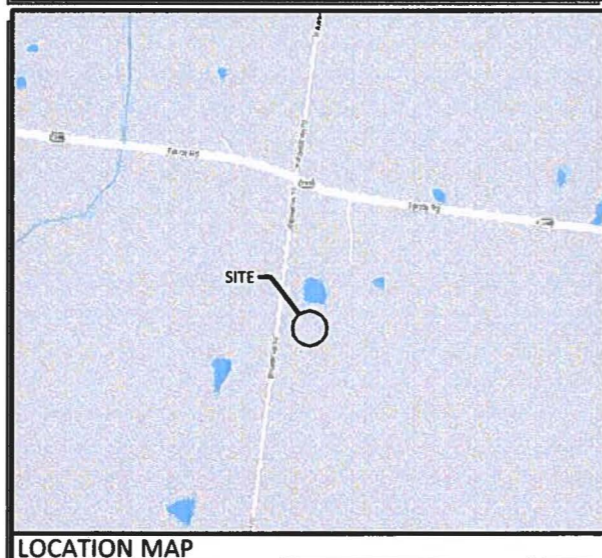
<b>HORVATH COMMUNICATIONS SITE</b> BARLOW SE SITE #: HV1388 <b>VERIZON WIRELESS SITE</b> EV BARLOW SE PROJECT#: 20181808888 LOCATION CODE: 2505006 <b>SITE ADDRESS</b> WAYSIDE INN RD WICKLIFFE, KY 42087 BALLARD COUNTY E911 ADDRESS: TBD <b>TOWER OWNER</b> HORVATH COMMUNICATIONS 312 W COLFAX AVE SOUTH BEND, IN 46601 CONTACT: JORDAN (FREEZE) HOEPPNER PHONE: (574) 237-0464 E-MAIL: JFREEZE@HORVATHCOMMUNICATIONS.COM <b>PROPERTY OWNER</b> LOREA & KENNY TURNER 5874 HINKLEVILLE RD LACENTER, KY 42056 CONTACT: LOREA TURNER PHONE: (270) 836-7061 E-MAIL: LORITURNER@GMAIL.COM	<b>POLICE</b> BALLARD COUNTY SHERIFF 437 OHIO ST WICKLIFFE, KY 42087 PHONE: (270) 335-3561 <b>FIRE</b> LACENTER FIRE DEPARTMENT 175 E 4TH ST LACENTER, KY 42056 PHONE: (270) 665-9123 <b>GENERAL INFORMATION</b> LATITUDE : 37° 01' 45.61" N LONGITUDE : 89° 00' 07.63" W 1983 (NAD83) ELEVATION : 443.00' AMSL 1988 (NAVD88) <b>HORVATH COMMUNICATIONS LEASE AREA</b> 100'-0" X 100'-0" (10,000 SF) <b>PROJECT TOTAL DISTURBED AREA</b> COMPOUND: (10,000 SF) = (0.23 ACRE) ACCESS DRIVE: (11,078 SF) = (0.25 ACRE) GROSS AREA: (21,078 SF) = (0.48 ACRE)
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<p>NOTE: ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS UNLESS NOTED AS (VZW GC) WHICH SHALL INCLUDE VERIZON WIRELESS GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. GENERALLY DESCRIBED BELOW:</p> <p><b>HORVATH COMMUNICATIONS SCOPE</b></p> <ul style="list-style-type: none"> <li>INSTALL A NEW 290' SELF SUPPORT TOWER w/ 5' LIGHTNING ROD (TOTAL 295')</li> <li>INSTALL A NEW TOWER FOUNDATION SYSTEM</li> <li>INSTALL A NEW 75'X75' FENCED GRAVEL COMPOUND</li> <li>INSTALL A NEW SITE H-FRAME</li> <li>INSTALL NEW TOWER LIGHTING AND TOWER LIGHTING CONTROLLER (SUPPLIED BY IFL, LLC)</li> <li>INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE H-FRAME</li> <li>INSTALL A NEW GRAVEL ACCESS DRIVE</li> <li>REMOVE ±48' OF EXISTING FENCE</li> <li>INSTALL ±64' OF FENCE TO MATCH EXISTING</li> <li>INSTALL 14'-0" CATTLE GATE</li> <li>NO WATER OR SEWAGE SERVICES RUN TO SITE</li> <li>INSTALL NEW TOWER &amp; SITE GROUNDING SYSTEM</li> <li>INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM</li> <li>INSTALL A NEW 11'-6"x19'-6" CONCRETE EQUIPMENT PAD</li> <li>INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP WITHIN VZW EQUIPMENT PAD TO UTILITY H-FRAME</li> <li>INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC ENCLOSURE STUB-UPS TO EQUIPMENT ENCLOSURE STUB-UPS WITHIN VZW EQUIPMENT PAD</li> <li>INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME (IT FIBER LOCATION)</li> <li>INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM VZW EQUIPMENT TO NEW "VERIZON WIRELESS ONLY" 24" x 36" HAND HOLE OUTSIDE COMPOUND</li> <li>INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM NEW "VERIZON WIRELESS ONLY" 24" x 36" HAND HOLE OUTSIDE COMPOUND TO NEW "VERIZON WIRELESS ONLY" 36" x 60" HAND HOLE AT ROW</li> <li>INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE FROM NEW "VERIZON WIRELESS ONLY" 24" x 36" HAND HOLE OUTSIDE COMPOUND AND STUB UP AT FUTURE FIBER PEDESTAL LOCATION</li> <li>PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY</li> </ul> <p><b>VERIZON WIRELESS SCOPE (VZW GC)</b></p> <ul style="list-style-type: none"> <li>INSTALL A NEW 11'-6" x 14'-9" PREFABRICATED CANOPY ON EXISTING CONCRETE PAD FOUNDATION</li> <li>INSTALL VZW ICE BRIDGE AND FOUNDATIONS</li> <li>INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER</li> <li>INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT</li> <li>INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT &amp; FACILITIES</li> <li>INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE</li> <li>INSTALL CIRCUITS FROM VZW ILC TO VZW EQUIPMENT ENCLOSURES</li> <li>INSTALL NEW OUTDOOR OVP AND CABLEING H-FRAME SUPPORT</li> <li>INSTALL (2) 1-1/4" &amp; (1) 1" INNERDUCTS WITH PULL TAPES AND TRACER WIRE WITHIN OWNER INSTALLED "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUITS</li> </ul>	<p>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.</p> <table border="0"> <tr> <td>BUILDING CODE</td> <td>2013 KENTUCKY BUILDING CODE (KBC 2012)</td> </tr> <tr> <td>STRUCTURAL CODE</td> <td>TIA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2)</td> </tr> <tr> <td>MECHANICAL CODE</td> <td>2012 INTERNATIONAL MECHANICAL CODE (IMC 2012)</td> </tr> <tr> <td>PLUMBING CODE</td> <td>KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)</td> </tr> <tr> <td>ELECTRICAL CODE</td> <td>2014 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70</td> </tr> <tr> <td>FIRE/LIFE SAFETY CODE</td> <td>2012 INTERNATIONAL FIRE CODE (2012 IFC)</td> </tr> <tr> <td>ENERGY CODE</td> <td>2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)</td> </tr> <tr> <td>GAS CODE</td> <td>2009 NATIONAL FUEL GAS CODE (NFPA 54)</td> </tr> </table> <p><b>ACCESSIBILITY REQUIREMENTS:</b> FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2009 IBC BUILDING CODE.</p> <p><b>APPLICABLE CODES</b></p> <table border="0"> <tr> <td><b>SURVEYOR</b></td> <td><b>ARCHITECTURAL</b></td> </tr> <tr> <td>POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252</td> <td>POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252</td> </tr> </table> <p><b>ELECTRICAL</b> JACKSON PURCHASE ENERGY CORPORATION ADDRESS: 2900 IRVIN COBB DR PADUCAH, KY 42003 CONTACT: TBD PHONE: (270) 442-7321 EMAIL: TBD</p> <p><b>ELECTRICAL UTILITY COORDINATION IS NOT FINALIZED. DO NOT PROCEED WITH CONSTRUCTION.</b></p>	BUILDING CODE	2013 KENTUCKY BUILDING CODE (KBC 2012)	STRUCTURAL CODE	TIA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2)	MECHANICAL CODE	2012 INTERNATIONAL MECHANICAL CODE (IMC 2012)	PLUMBING CODE	KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)	ELECTRICAL CODE	2014 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70	FIRE/LIFE SAFETY CODE	2012 INTERNATIONAL FIRE CODE (2012 IFC)	ENERGY CODE	2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)	GAS CODE	2009 NATIONAL FUEL GAS CODE (NFPA 54)	<b>SURVEYOR</b>	<b>ARCHITECTURAL</b>	POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252	POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252
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### PROJECT SUMMARY



### LOCATION MAP



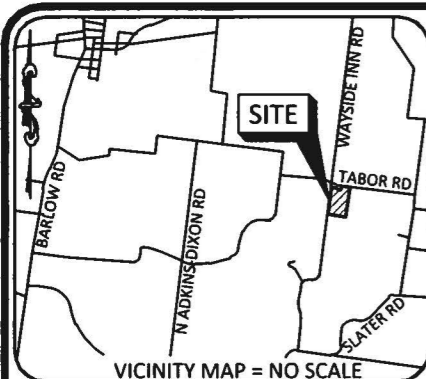
### CONSULTANT TEAM



VICINITY MAP

LOCATION MAP

AERIAL



**FAA COORDINATE POINT**  
 NAD 83  
 LATITUDE: 37°01'45.61"  
 LONGITUDE: -89°00'07.63"  
 NAVD 88  
 ELEVATION: 443± AMSL  
 NORTHING: 3,550,806.300  
 EASTING: 3,972,069.788

**GENERAL NOTES**

NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE SUBJECT PROPERTY.

THIS SURVEY IS FOR THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT TRACT HAS BEEN PERFORMED.

A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE EQUALS 0.06', FOR A PRECISION OF 1:42,466 AND HAS NOT BEEN ADJUSTED.

THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HEREON OR NOT.

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

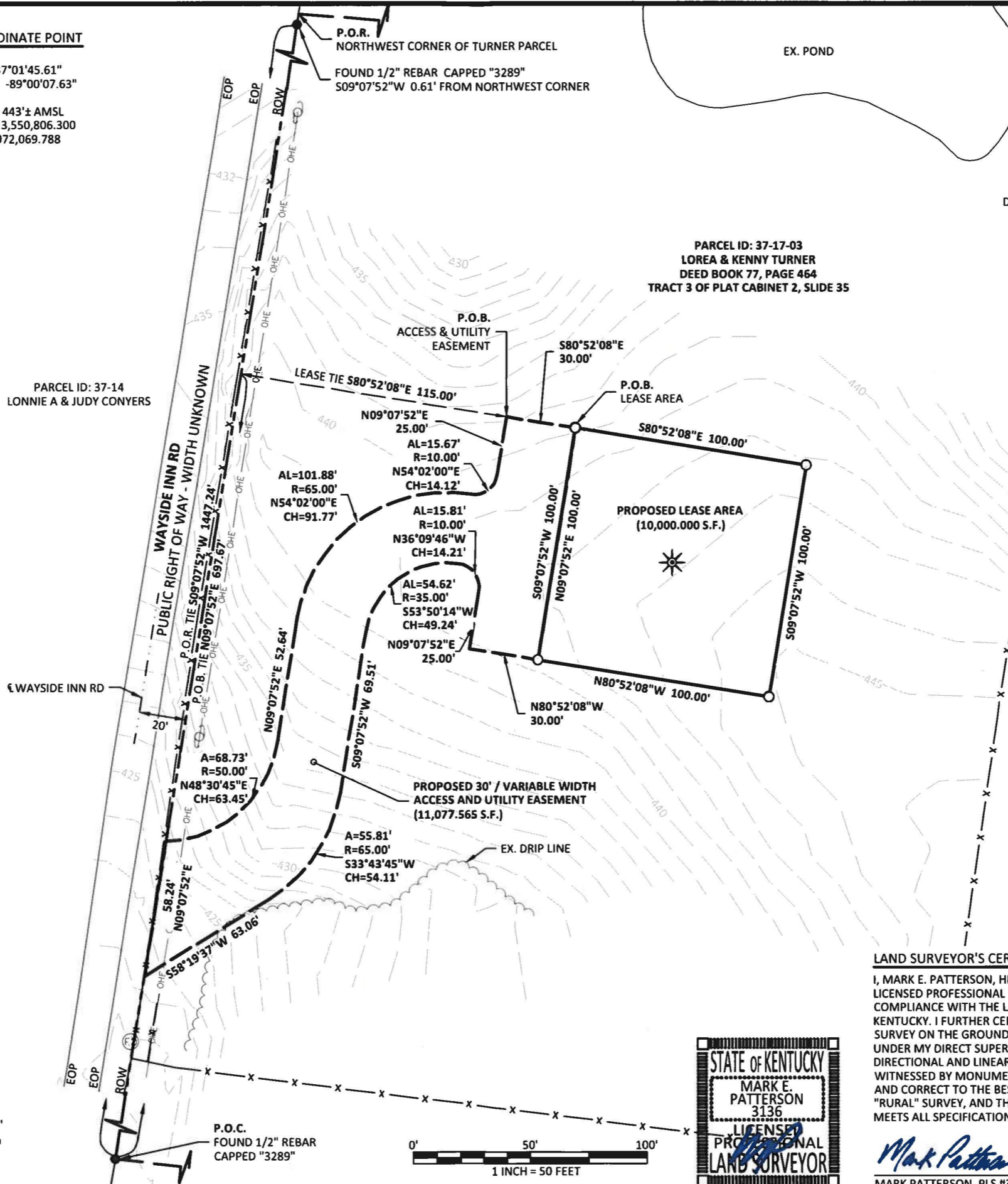
THE PARENT PARCEL, THE PROPOSED LEASE AREA THE PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENTS SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21007C0095C, DATED JULY 7, 2014.

**GLOBAL POSITIONING SYSTEMS NOTE**

- RANDOM CONTROL POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS.
- THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.06' HORIZONTALLY.
- TOPCON HIPER V DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.

**LEGEND**

- EX. FIBER OPTIC MARKER
- EX. UTILITY POLE
- P.O.C.** POINT OF COMMENCEMENT
- P.O.R.** POINT OF REFERENCE
- P.O.B.** POINT OF BEGINNING
- EXISTING FENCE
- SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
- FOUND MONUMENT AS NOTED
- PROPERTY LINE
- ADJACENT PROPERTY LINE



TRUE NORTH  
 GRID NORTH  
 -1° 59' 49"  
 BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON JUNE 28, 2019.

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

PREPARED FOR:  
**KENTUCKY RSA 1 PARTNERSHIP**  
 D/B/A

**SITE SURVEY**

REV.	DATE	DESCRIPTION
A	7.8.19	PRELIM ISSUE
B	8.2.19	TITLE REVIEW
C	1.30.20	ADDITIONAL TOPO

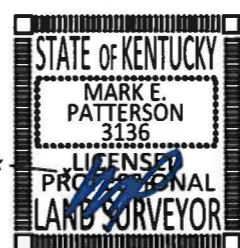
**SITE INFORMATION:**  
**EV BARLOW SE**  
 WAYSIDE INN RD  
 WICKLIFFE, KY 42087  
 BALLARD COUNTY  
 TAX PARCEL NUMBER:  
 37-17-03  
 PROPERTY OWNER:  
 LOREA & KENNY TURNER  
 5874 HINKLEVILLE RD  
 LACENTER, KY 42056  
 SOURCE OF TITLE:  
 DEED BOOK 77, PAGE 464



**LAND SURVEYOR'S CERTIFICATE**

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.

*Mark Patterson*  
 MARK PATTERSON, PLS #3136  
 03/26/2020  
 DATE



POD NUMBER: 19-42117  
 DRAWN BY: JRS  
 CHECKED BY: MEP  
 SURVEY DATE: 6.28.19  
 PLAT DATE: 7.5.19

SHEET TITLE:  
**SITE SURVEY**  
 THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

SHEET NUMBER: (2 pages)  
**B-1**

**LEGAL DESCRIPTIONS**

**PROPOSED LEASE AREA**

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3) OF RECORD IN THE OFFICE OF THE CLERK OF BALLARD COUNTY, KENTUCKY, PARCEL ID: 37-17-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JUNE 28, 2019.

COMMENCING AT A FOUND 1/2" REBAR WITH CAP STAMPED "3289" AT THE SOUTHWEST CORNER OF THE PARCEL CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3), AND SAID POINT ALSO BEING AT THE NORTHWEST CORNER OF THE PARCEL CONVEYED TO GARY & GERALDINE L KNIGHT AS DESCRIBED IN DEED BOOK 77, PAGE 461 (TRACT 4), FOR REFERENCE, SAID COMMENCEMENT POINT IS S09°07'52"W 1447.24' FROM THE NORTHWEST CORNER OF SAID TURNER PARCEL (A FOUND 1/2" REBAR WITH CAP STAMPED "3289" BEING SOUTH S09°07'52"W 0.61' FROM SAID NORTHWEST CORNER); THENCE WITH SAID TURNER LINE, N09°07'52"E 697.67'; THENCE LEAVING SAID LINE, TRAVERSING ACROSS THE LAND OF TURNER, S80°52'08"E 115.00'; THENCE S80°52'08"E 30.00' TO A SET 1/2" REBAR, 18" LONG, CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", AT THE NORTHWEST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE S80°52'08"E 100.00' TO A SET IPC; THENCE S09°07'52"W 100.00' TO A SET IPC; THENCE N80°52'08"W 100.00' TO A SET IPC; THENCE N09°07'52"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JUNE 28, 2019.

**PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT**

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' / VARIABLE WIDTH ACCESS AND UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3) OF RECORD IN THE OFFICE OF THE CLERK OF BALLARD COUNTY, KENTUCKY, PARCEL ID: 37-17-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JUNE 28, 2019.

COMMENCING AT A FOUND 1/2" REBAR WITH CAP STAMPED "3289" AT THE SOUTHWEST CORNER OF THE PARCEL CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3), AND SAID POINT ALSO BEING AT THE NORTHWEST CORNER OF THE PARCEL CONVEYED TO GARY & GERALDINE L KNIGHT AS DESCRIBED IN DEED BOOK 77, PAGE 461 (TRACT 4), FOR REFERENCE, SAID COMMENCEMENT POINT IS S09°07'52"W 1447.24' FROM THE NORTHWEST CORNER OF SAID TURNER PARCEL (A FOUND 1/2" REBAR WITH CAP STAMPED "3289" BEING SOUTH S09°07'52"W 0.61' FROM SAID NORTHWEST CORNER); THENCE WITH SAID TURNER LINE, N09°07'52"E 697.67'; THENCE LEAVING SAID LINE, TRAVERSING ACROSS THE LAND OF TURNER, S80°52'08"E 115.00' TO THE TRUE POINT OF BEGINNING; THENCE S80°52'08"E 30.00' TO A SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", AT THE NORTHWEST CORNER OF THE PROPOSED LEASE AREA; THENCE ALONG PROPOSED LEASE AREA, S09°07'52"W 100.00' TO A SET IPC; THENCE LEAVING SAID LEASE AREA, N80°52'08"W 30.00'; THENCE N09°07'52"E 25.00'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING AN ARC LENGTH OF 15.81', WITH A RADIUS OF 10.00', WITH A CHORD BEARING OF N36°09'46"W, AND A CHORD LENGTH OF 14.21'; THENCE ALONG THE ARC OF A COMPOUND CURVE TO THE LEFT HAVING AN ARC LENGTH OF 54.62', WITH A RADIUS OF 35.00', WITH A CHORD BEARING OF S53°50'14"W, AND A CHORD LENGTH OF 49.24'; THENCE S09°07'52"W 69.51'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING AN ARC LENGTH OF 55.81', WITH A RADIUS OF 65.00', WITH A CHORD BEARING OF S33°43'45"W, AND A CHORD LENGTH OF 54.11'; THENCE S58°19'37"W 63.06' TO THE WEST LINE OF SAID TURNER; THENCE ALONG SAID TURNER LINE, N09°07'52"E 58.24'; THENCE ALONG THE ARC OF A NON-TANGENT CURVE TO THE LEFT HAVING AN ARC LENGTH OF 68.73', WITH A RADIUS OF 50.00', WITH A CHORD BEARING OF N48°30'45"E, AND A CHORD LENGTH OF 63.45'; THENCE N09°07'52"E 52.64'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING AN ARC LENGTH OF 101.88', WITH A RADIUS OF 65.00', WITH A CHORD BEARING OF N54°02'00"E, AND A CHORD LENGTH OF 91.77'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING AN ARC LENGTH OF 15.67', WITH A RADIUS OF 10.00', WITH A CHORD BEARING OF N54°02'00"E, AND A CHORD LENGTH OF 14.12'; THENCE N09°07'52"E 25.00' TO THE POINT OF BEGINNING CONTAINING 11,077.565 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JUNE 28, 2019.

**PARENT PARCEL, LEGAL DESCRIPTION, DEED BOOK 77, PAGE 464 (NOT FIELD SURVEYED)**

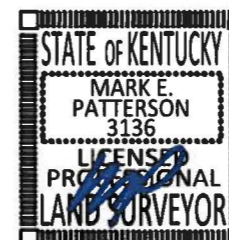
A TRACT OF LAND LYING ON THE SOUTH SIDE OF TABOR ROAD, AND THE EAST OF WAYSIDE INN ROAD CONSISTING OF 35.27 ACRES AND BEING DESIGNATED AS "TRACT 3" ON A PLAT OF WAVIER SURVEY OF THE MARK KNIGHT, ET AL, PROPERTY AS RECORDED IN PLAT CABINET 2 SLIDE 35 IN BALLARD COUNTY CLERK'S OFFICE. BEING A PART OF THE PROPERTY INHERITED BY GRANTORS MARK KNIGHT, LOREA TURNER, AND GARY KNIGHT, THE CHILDREN OF JIMMY BOB KNIGHT, SEE AFFIDAVIT OF DESCENT AND TRANSFER BY INTESTATE SUCCESSION, DATED MARCH 2, 2001 AND OF RECORD IN CABINET I, DRAWER 20, CARD #42768 IN THE BALLARD COUNTY CLERK'S OFFICE.

**TITLE OF COMMITMENT, DEED BOOK 77, PAGE 464 (PARCEL ID: 37-17-03)**

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC. AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESCRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. INFORMATION REGARDING THESE MATTERS WERE GAINED FROM FIDELITY NATIONAL TITLE, ORDER NO. C1905592LKY, PREPARED FOR VERIZON WIRELESS, DATED JULY 8, 2019 AT 8:00 AM. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID SEARCH AND THE NUMBERS IN THE COMMENTS CORRESPOND TO THE NUMBERING SYSTEM IN SAID REPORT.

**SCHEDULE B, PART II (EXCEPTIONS)**

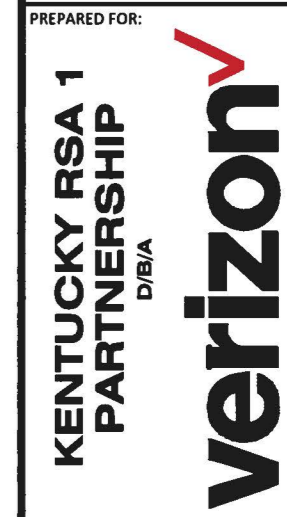
1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I-REQUIREMENTS ARE MET. (NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
2. LIEN OF CITY, COUNTY AND OTHER REAL ESTATE TAXES FOR THE PERIOD 2019 AND ALL SUBSEQUENT YEARS, NOT YET DUE AND PAYABLE. (NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE, OR EASEMENTS OR CLAIMS OF EASEMENTS NOT SHOWN BY THE PUBLIC RECORDS THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND. (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY OF THE PARENT PARCEL, AND THEREFORE CANNOT ADDRESS THIS ITEM.)
4. RIGHTS OF TENANTS IN POSSESSION, AS TENANTS ONLY, UNDER UNRECORDED UNEXPIRED LEASES. (NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
5. ALL COAL, OIL, GAS AND OTHER MINERAL RIGHTS HERETOFORE CONVEYED, EXCEPTED, RESERVED OR LEASED, TOGETHER WITH ALL INCIDENTAL RIGHTS THERETO. (POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
6. CONDITIONS, STIPULATIONS, RESTRICTIONS, BUILDING LINES AND EASEMENTS, TOGETHER WITH INCIDENTAL RIGHTS, AS PROVIDED FOR ON THE RECORDED PLAT OF RECORD IN PLAT CABINET 2, SLIDE 35, IN THE OFFICE AFORESAID. (PLAT AS RECORDED IN PLAT CABINET 2, SLIDE 35, DOES AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT.)



**LAND SURVEYOR'S CERTIFICATE**

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.

*Mark Patterson* 03/26/2020  
 MARK PATTERSON, PLS #3136 DATE



**SITE SURVEY**

REV.	DATE	DESCRIPTION
A	7.8.19	PRELIM ISSUE
B	8.2.19	TITLE REVIEW
C	1.30.20	ADDITIONAL TOPO

**SITE INFORMATION:**

**EV BARLOW SE**  
 WAYSIDE INN RD  
 WICKLIFFE, KY 42087  
 BALLARD COUNTY  
**TAX PARCEL NUMBER:**  
 37-17-03  
**PROPERTY OWNER:**  
 LOREA & KENNY TURNER  
 5874 HINKLEVILLE RD  
 LACENTER, KY 42056  
**SOURCE OF TITLE:**  
 DEED BOOK 77, PAGE 464

POD NUMBER: 19-42117

DRAWN BY: JRS  
 CHECKED BY: MEP  
 SURVEY DATE: 6.28.19  
 PLAT DATE: 7.5.19

**SHEET TITLE:**  
**SITE SURVEY**  
 THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

SHEET NUMBER: (2 pages)

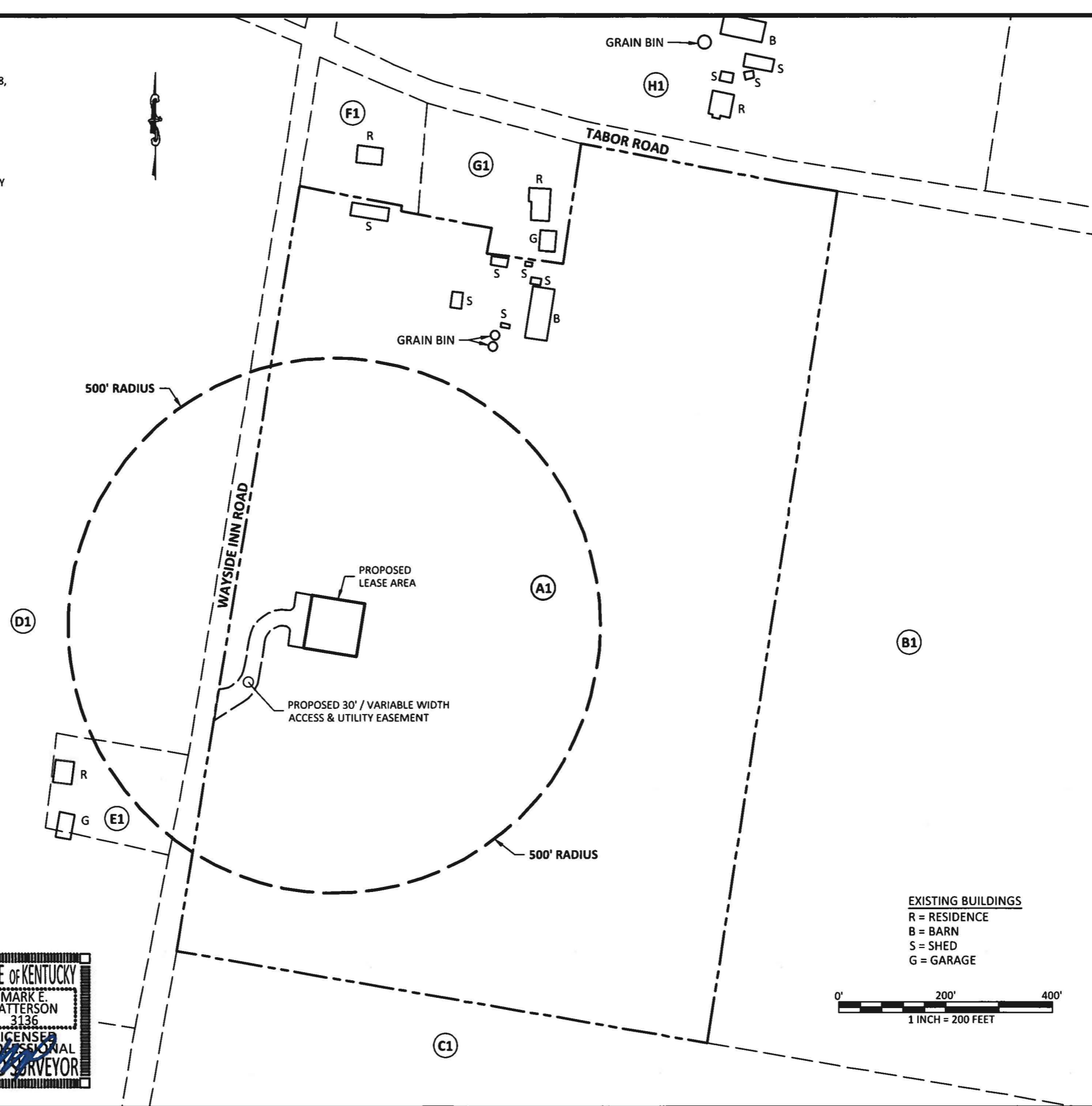
**B-1.1**

**GENERAL NOTE:**

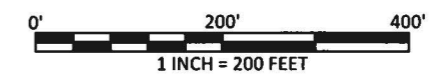
1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE BALLARD COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON JUNE 28, 2019 AND RE-VERIFIED ON MARCH 11, 2020. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
3. NOT FOR RECORDING OR PROPERTY TRANSFER.

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

- (A1)** PARCEL ID: 37-17-03  
TURNER LOREA & KENNY  
3819 TABOR ROAD  
BARLOW KY 42024
- (B1)** PARCEL ID: 37-17-02  
KNIGHT SAMANTHA JO  
4871 HINKLEVILLE ROAD  
LA CENTER KY 42056
- (C1)** PARCEL ID: 37-17-04  
KNIGHT GARY & GERALDINE L  
1474 WAYSIDE INN ROAD  
BARLOW, KY 42024
- (D1)** PARCEL ID: 37-14  
CONYERS LONNIE A OR JUDY  
3193 TABOR ROAD  
WICKLIFFE KENTUCKY 42087
- (E1)** PARCEL ID: 37-14-01  
CONYERS GINA RENEE  
1575 WAYSIDE INN ROAD  
BARLOW KY 42024
- (F1)** PARCEL ID: 37-17-01  
KITT PAUL G & SANDRA  
3781 TABOR ROAD  
BARLOW KY 42024
- (G1)** PARCEL ID: 37-17  
TURNER KENNY & LOREA  
3819 TABOR ROAD  
BARLOW KY 42024
- (H1)** PARCEL ID: 37-07  
PURCELL JUDITH  
ROBERT NEAL  
572 CEREDO ROAD  
BARLOW KY 42024



**EXISTING BUILDINGS**  
R = RESIDENCE  
B = BARN  
S = SHED  
G = GARAGE



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

*Mark Patterson* 03/26/2020  
MARK PATTERSON, PLS #3136 DATE



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

PREPARED FOR:  
**KENTUCKY RSA 1 PARTNERSHIP**  
D/B/A  
**verizon**

**EXHIBIT**

REV.	DATE	DESCRIPTION
A	3.11.20	PRELIM ISSUE
0	3.26.20	ISSUED AS FINAL

**SITE INFORMATION:**  
**EV BARLOW SE**  
WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY  
**TAX PARCEL NUMBER:**  
37-17-03  
**PROPERTY OWNER:**  
LOREA & KENNY TURNER  
3819 TABOR RD  
BARLOW, KY 42024  
**SOURCE OF TITLE:**  
DEED BOOK 77, PAGE 464

POD NUMBER: 19-42122  
DRAWN BY: JRS  
CHECKED BY: MEP  
SURVEY DATE: 6.28.19  
PLAT DATE: 3.11.20

**SHEET TITLE:**  
**500' RADIUS AND ABUTTERS MAP**

SHEET NUMBER: (1 page)  
**B-2**



### REVISION LOG

REV *	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	3/16/2020	ALL SHEETS	ISSUED FOR REVIEW
0	3/26/2020	ALL SHEETS	ISSUED AS FINAL



312 WEST COLFAX AVE  
SOUTH BEND, IN 46601

03/26/2020



EN PERMIT: 3594

### ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.16.20	ISSUED FOR REVIEW
0	3.26.20	ISSUED AS FINAL

#### SITE INFORMATION: BARLOW SE

WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY

HORVATH SITE NUMBER:  
HV1388

VERIZON WIRELESS SITE NAME:  
EV BARLOW SE

POD NUMBER: 19-42124

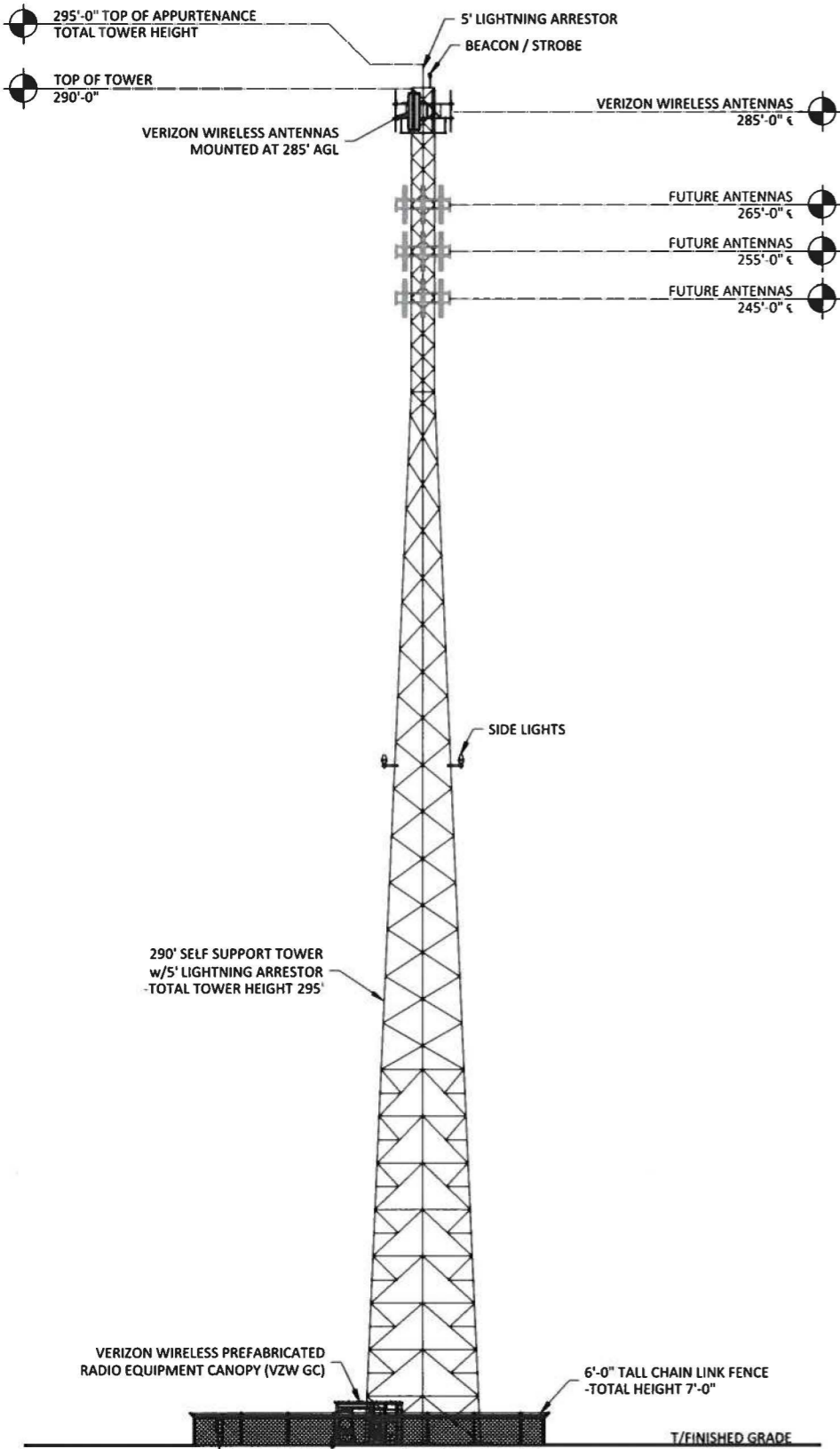
DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 03.10.20

SHEET TITLE:

### REVISION LOG

SHEET NUMBER:

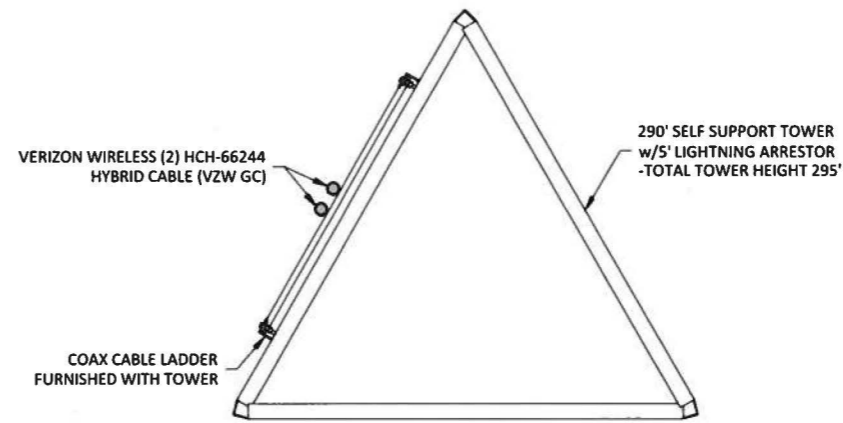
**R-1**



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

**NOTE:**

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



**COAX PLAN**  
SCALE: N.T.S.



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

**HORVATH**  
COMMUNICATIONS

312 WEST COLFAX AVE  
SOUTH BEND, IN 46601

03/26/2020

STATE OF KENTUCKY  
MARK E. PATTERSON  
16,300  
LICENSED PROFESSIONAL ENGINEER

EN PERMIT: 3594

**ZONING  
DRAWINGS**

REV.	DATE	DESCRIPTION
A	3.16.20	ISSUED FOR REVIEW
D	3.26.20	ISSUED AS FINAL

SITE INFORMATION:  
**BARLOW SE**

WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY

HORVATH SITE NUMBER:  
HV1388

VERIZON WIRELESS SITE NAME:  
EV BARLOW SE

POD NUMBER: 19-42124

DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 03.10.20

SHEET TITLE:

**TOWER ELEVATION**

SHEET NUMBER:

**TE-1**



**OVERALL SITE PLAN W/AERIAL OVERLAY**

SCALE: 1" = 30'



Kentucky 811  
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 NOTICING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMERCIAL WORK.

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

**HORVATH**  
COMMUNICATIONS

312 WEST COLFAX AVE  
SOUTH BEND, IN 46601

03/26/2020



EN PERMIT: 3594

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	3.16.20	ISSUED FOR REVIEW
0	3.26.20	ISSUED AS FINAL

**SITE INFORMATION:  
BARLOW SE**

WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY

HORVATH SITE NUMBER:  
HV1388

VERIZON WIRELESS SITE NAME:  
EV BARLOW SE

POD NUMBER: 19-42124

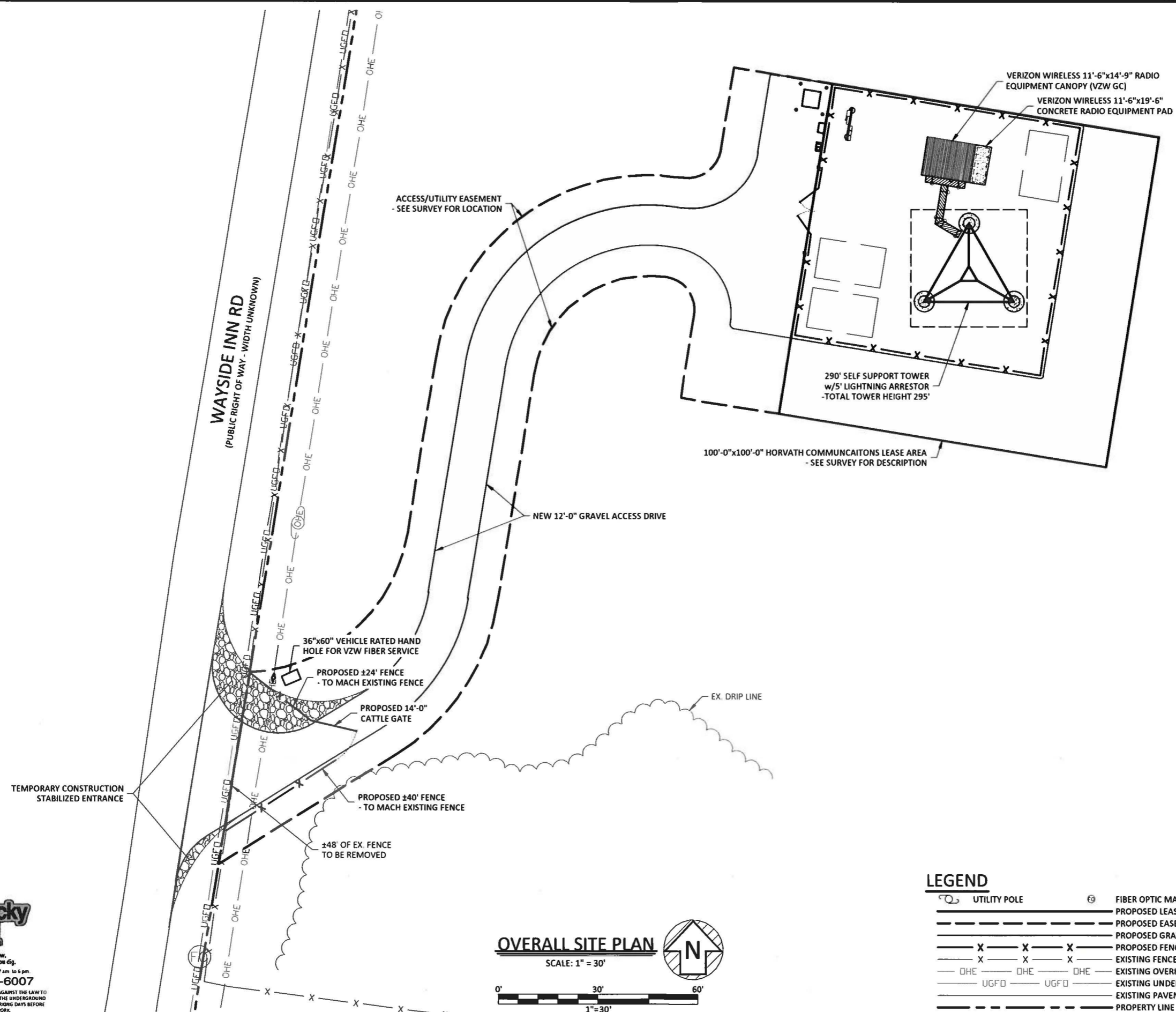
DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 03.10.20

SHEET TITLE:

**OVERALL SITE PLAN W/AERIAL OVERLAY**

SHEET NUMBER:

**C-1**



**OVERALL SITE PLAN**  
SCALE: 1" = 30'

**LEGEND**

UTILITY POLE	FIBER OPTIC MARKER
PROPOSED LEASE LINE	PROPOSED EASEMENT
PROPOSED GRAVEL	PROPOSED FENCE
EXISTING FENCE	EXISTING OVERHEAD ELECTRIC
EXISTING UNDERGROUND FIBER OPTIC	EXISTING PAVEMENT
PROPERTY LINE	

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

---

312 WEST COLFAX AVE  
SOUTH BEND, IN 46601

---

03/26/2020

EN PERMIT: 3594

---

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	3.16.20	ISSUED FOR REVIEW
0	3.26.20	ISSUED AS FINAL

---

**SITE INFORMATION:**  
**BARLOW SE**

WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY

---

**HORVATH SITE NUMBER:**  
HV1388

---

**VERIZON WIRELESS SITE NAME:**  
EV BARLOW SE

---

**POD NUMBER:** 19-42124  
**DRAWN BY:** POD  
**CHECKED BY:** MEP  
**DATE:** 03.10.20

---

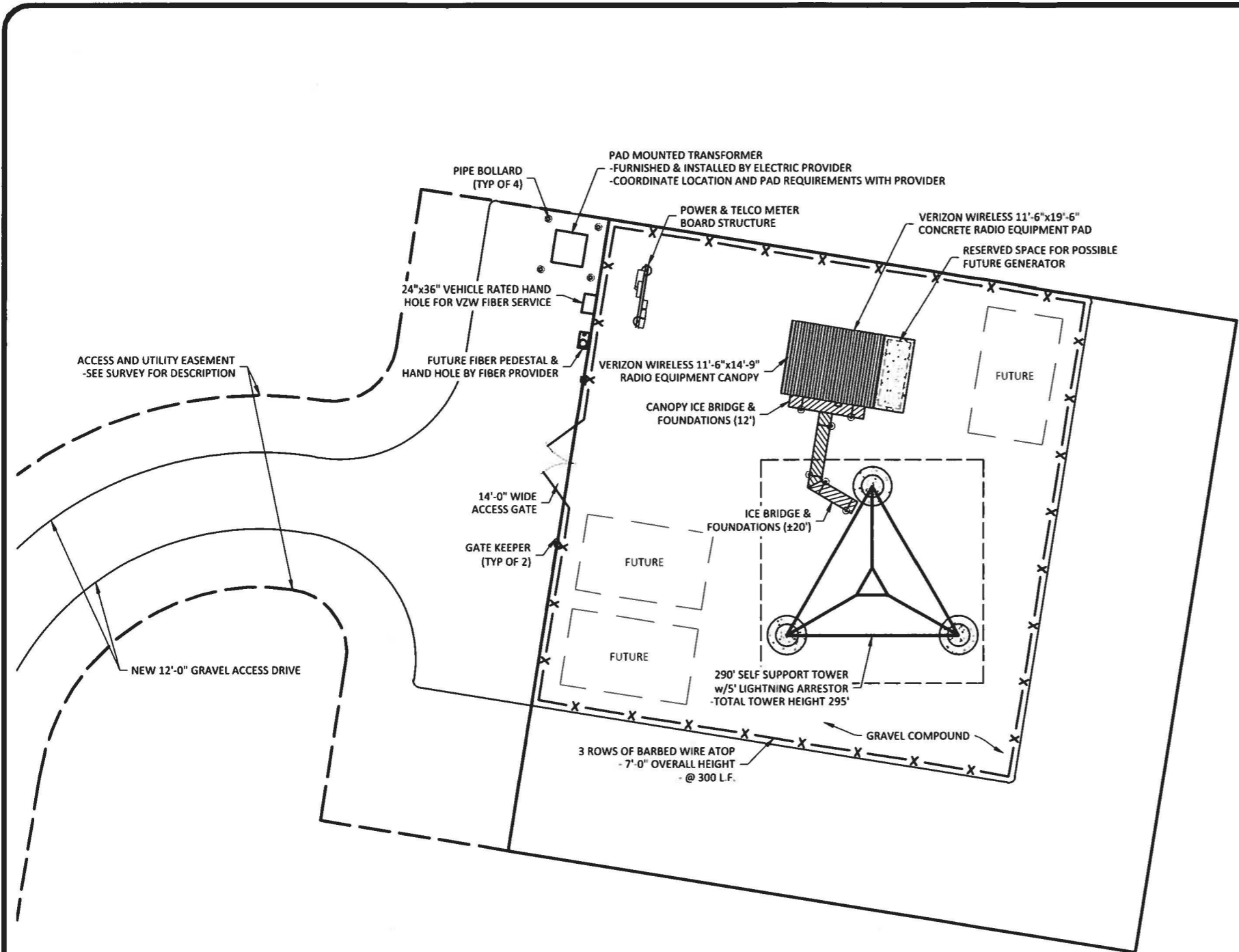
SHEET TITLE:  
**OVERALL SITE PLAN**

---

SHEET NUMBER:  
**C-1A**

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.



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

**HORVATH**  
COMMUNICATIONS  
312 WEST COLFAX AVE  
SOUTH BEND, IN 46601

03/26/2020  
STATE OF KENTUCKY  
MARK E. PATTERSON  
16,300  
LICENSED PROFESSIONAL ENGINEER  
EN PERMIT: 3594

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	3.16.20	ISSUED FOR REVIEW
0	3.26.20	ISSUED AS FINAL

SITE INFORMATION:  
**BARLOW SE**  
WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY

HORVATH SITE NUMBER:  
HV1388

VERIZON WIRELESS SITE NAME:  
EV BARLOW SE

POD NUMBER: 19-42124  
DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 03.10.20

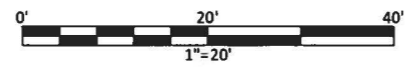
SHEET TITLE:  
**DETAILED SITE PLAN**

SHEET NUMBER:  
**C-3**



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.

\*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

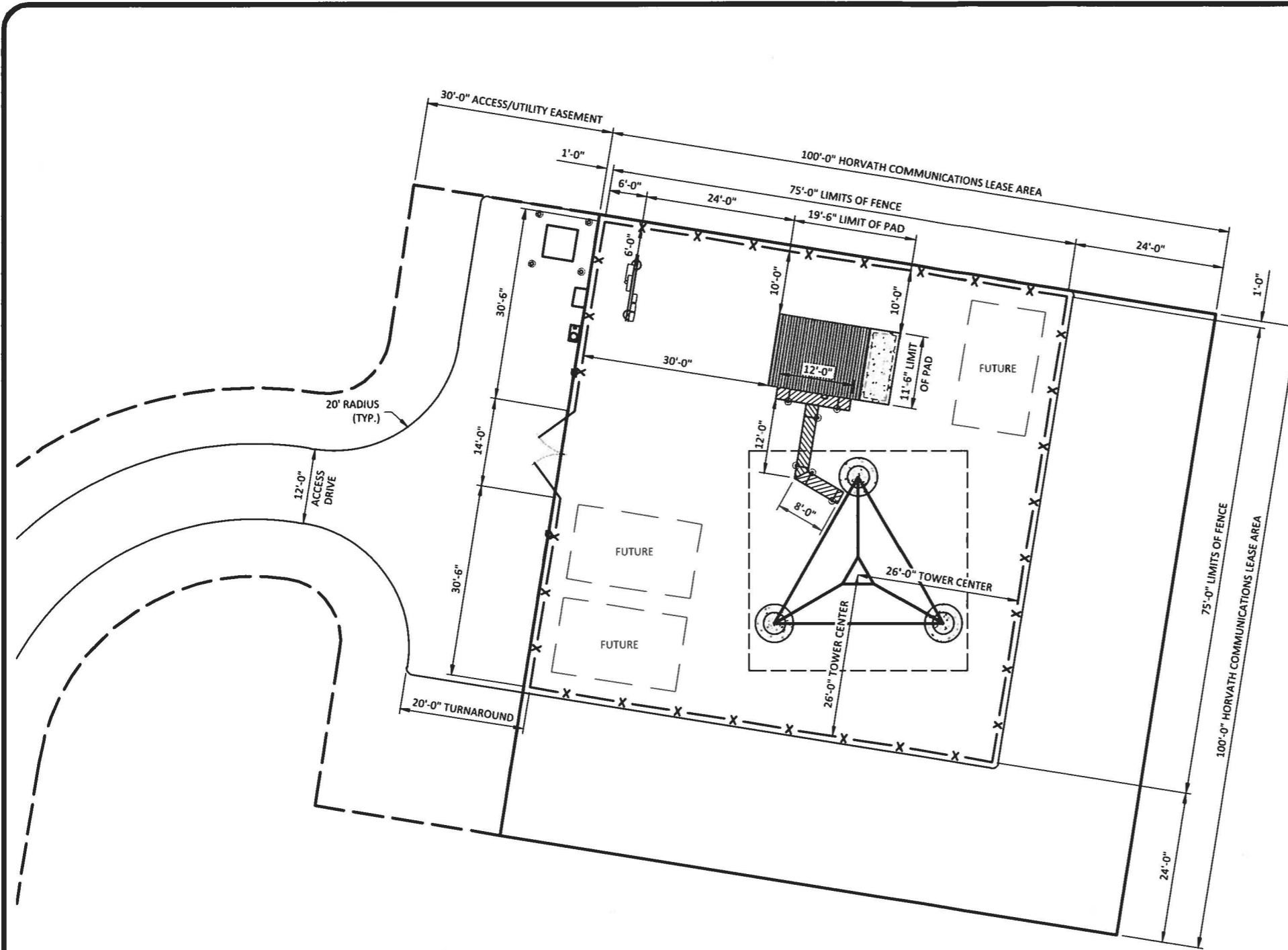


**DETAILED SITE PLAN**  
SCALE: 1" = 20'



**LEGEND**

- PROPOSED LEASE LINE
- - - PROPOSED EASEMENT
- X — X — X — PROPOSED GRAVEL
- X — X — X — PROPOSED FENCE



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



312 WEST COLFAX AVE  
SOUTH BEND, IN 46601

03/26/2020



EN PERMIT: 3594

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	3.16.20	ISSUED FOR REVIEW
0	3.26.20	ISSUED AS FINAL

**SITE INFORMATION:**  
**BARLOW SE**

WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY

HORVATH SITE NUMBER:  
HV1388

VERIZON WIRELESS SITE NAME:  
EV BARLOW SE

POD NUMBER: 19-42124

DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 03.10.20

SHEET TITLE:

**DIMENSIONED SITE PLAN**

SHEET NUMBER:

**C-4**



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.

**\*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



**DIMENSIONED SITE PLAN**

SCALE: 1" = 20'



**LEGEND**

- PROPOSED LEASE LINE
- - - - PROPOSED EASEMENT
- X —— PROPOSED GRAVEL
- X —— X —— PROPOSED FENCE

**EXHIBIT C**  
**TOWER AND FOUNDATION DESIGN**



March 18, 2020  
Kentucky Public Service Commission  
211 Sower Blvd.  
P.O. Box 615  
Frankfort, KY. 40602

RE: Site Name – EV Barlow SE  
Proposed Cell Tower  
37 01 45.61 North Latitude, 89 00 07.63 West Longitude

Dear Commissioners:

The Project / Construction Manager for the proposed new communications facility will be Jeff DeLauder. His contact information is (517)394-9562 or [jdelauder@horvathcommunications.com](mailto:jdelauder@horvathcommunications.com).

Jeff DeLauder has been in the industry completing civil construction and constructing towers since 1996. He has worked at Horvath Communications since August 2016 completing project and construction management on new site build projects.

Thank you,

*Jeff DeLauder*

**Jeff DeLauder**

Director of Construction



a:312 West Colfax Ave South Bend, IN 46601

p:574-237-0464 m:517-294-9562 f:574-294-9562

w: [www.horvathcommunications.com](http://www.horvathcommunications.com) e: [jdelauder@horvathcommunications.com](mailto:jdelauder@horvathcommunications.com)





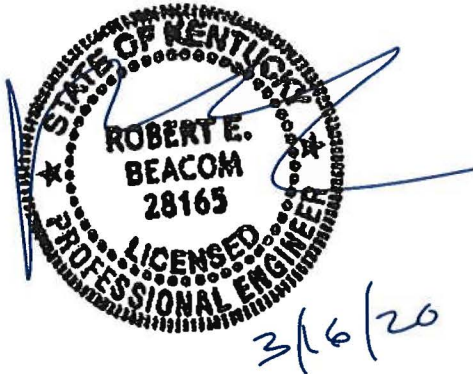
**Structural Design Report**  
290' S3TL Series HD1 Self-Supporting Tower  
Site: Barlow, KY  
Site Number: HV1388

Prepared for: HORVATH COMMUNICATIONS INC  
by: Sabre Industries™

Job Number: 20-4208-TJH-R1

March 16, 2020

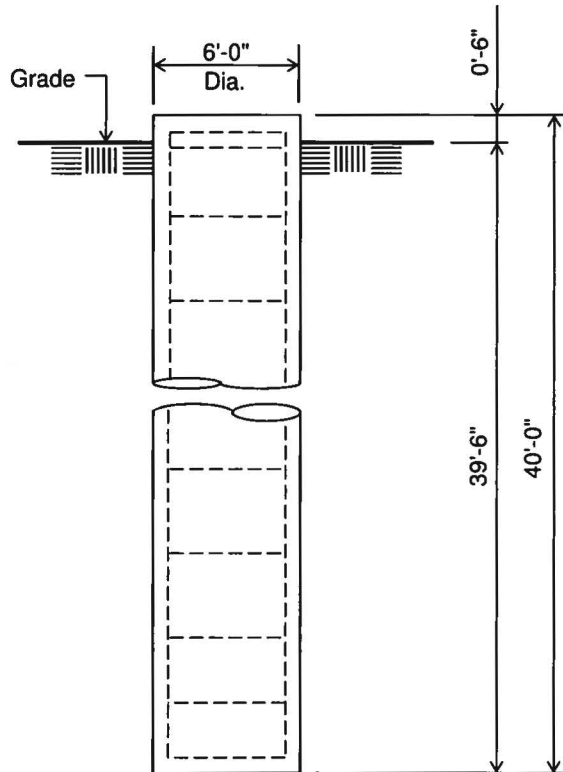
Tower Profile.....	1
Foundation Design Summary (Option 1).....	2
Foundation Design Summary (Option 2).....	3
Maximum Leg Loads.....	4
Maximum Diagonal Loads.....	5
Maximum Foundation Loads.....	6
Calculations.....	7-24





**Customer: HORVATH COMMUNICATIONS INC**  
**Site: Barlow, KY HV1388**

290 ft. Model S3TL Series HD1 Self Supporting Tower



**Notes:**

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-11.
- 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 POD project no. 19-42119, dated: 2/28/20.
- 6) See the geotechnical report for drilled pier installation requirements, if specified.
- 7) The foundation is based on the following factored loads:  
Factored uplift (kips) = 422.00  
Factored download (kips) = 482.00  
Factored shear (kips) = 39.00
- 8) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

**ELEVATION VIEW**

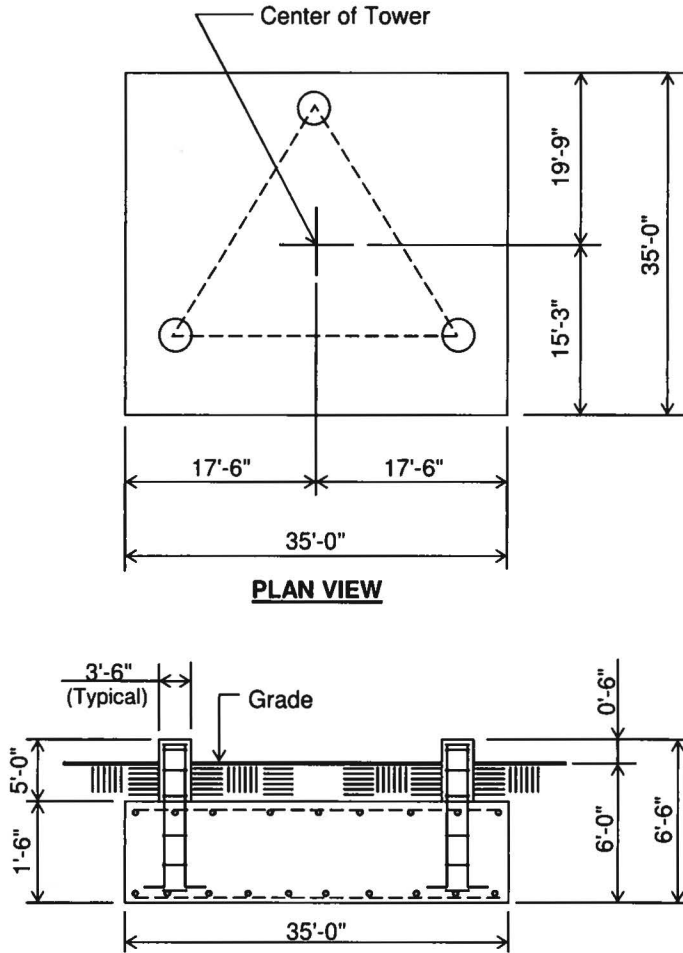
(41.9 cu. yds.)  
(3 REQUIRED; NOT TO SCALE)

<b>Rebar Schedule per Pier</b>	
<b>Pier</b>	(18) #10 vertical rebar w/ #4 rebar ties, two (2) within top 5" of pier then 12" C/C
<b>Anchor Bolts per Leg</b>	
(6) 1.5" dia. x 78" F1554-105 on a 13.25" B.C. w/ 9.5" max. projection above concrete.	

Information contained herein is the sole property of Sabre Industries, 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 Industries.

**Customer: HORVATH COMMUNICATIONS INC**  
**Site: Barlow, KY HV1388**

290 ft. Model S3TL Series HD1 Self Supporting Tower



**PLAN VIEW**

**ELEVATION VIEW**

(73.4 cu. yds.)  
(1 REQD.; NOT TO SCALE)

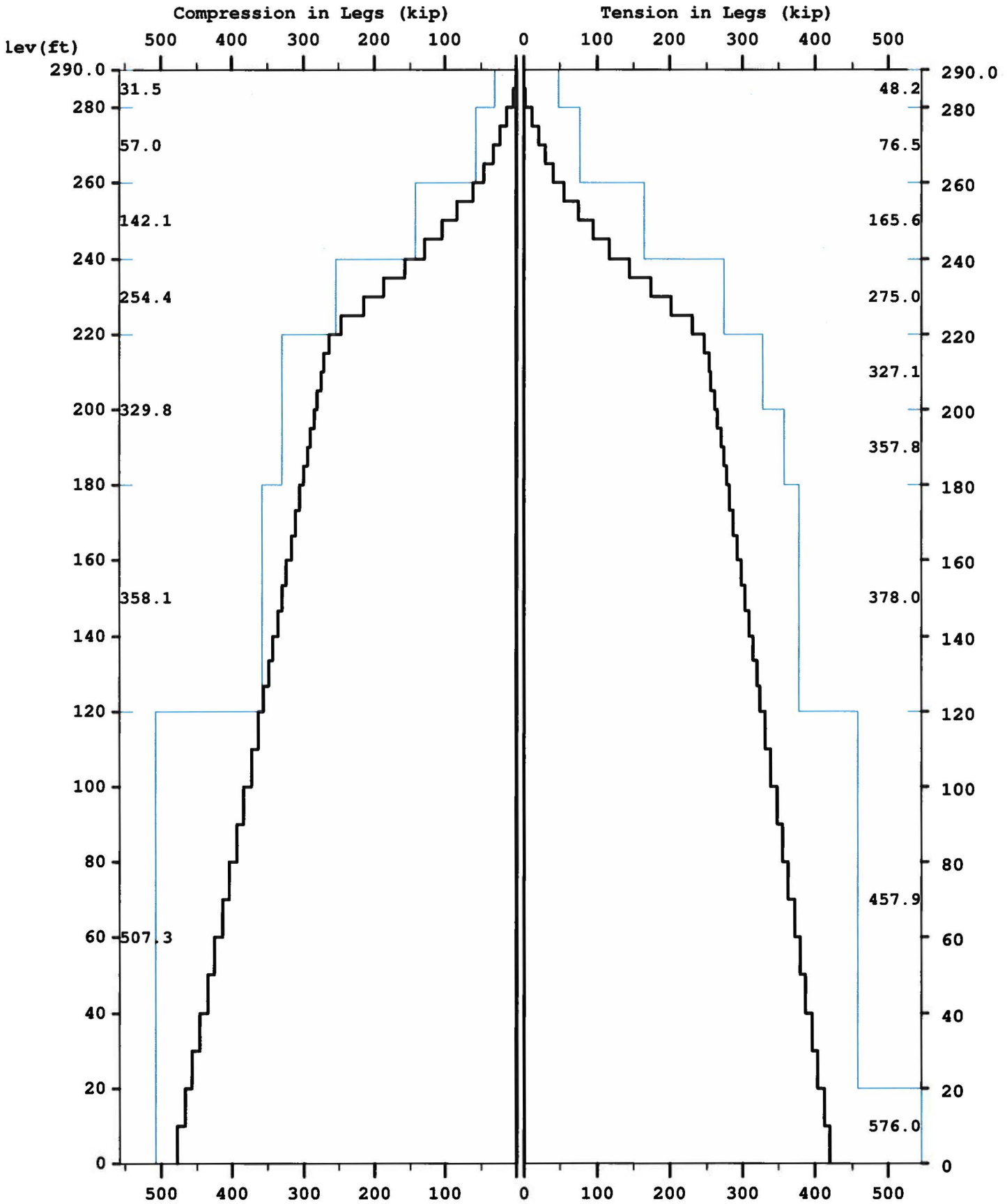
**CAUTION:** Center of tower is not in center of slab.

**Notes:**

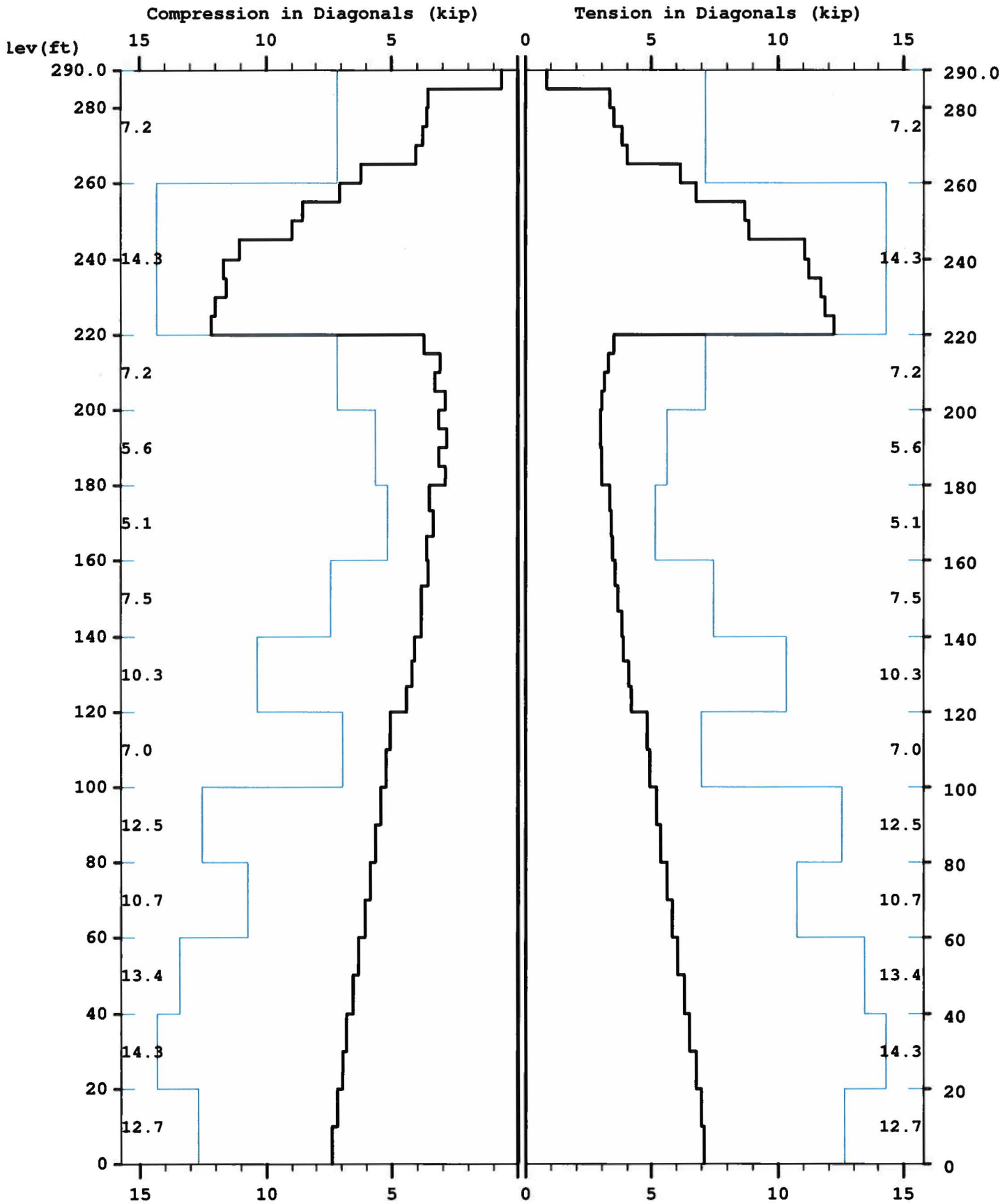
- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-11.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by POD project no. 19-42119, dated: 2/28/20.
- 6) See the geotechnical report for compaction requirements, if specified.
- 7) The foundation is based on the following factored loads:  
Factored download (kips) = 71.22  
Factored overturn (kip-ft) = 10,718.33  
Factored shear (kips) = 61.63
- 8) 4.5' of soil cover is required over the entire area of the foundation slab.
- 9) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

<b>Rebar Schedule per Mat and per Pier</b>	
<b>Pier</b>	(18) #8 vertical rebar w/ hooks at bottom w/ #4 rebar ties, two (2) within top 5" of pier then 11" C/C
<b>Mat</b>	(61) #9 horizontal rebar evenly spaced each way top and bottom. (244 total)
<b>Anchor Bolts per Leg</b>	
(6) 1.5" dia. x 78" F1554-105 on a 13.25" B.C. w/ 9.5" max. projection above concrete.	

Maximum

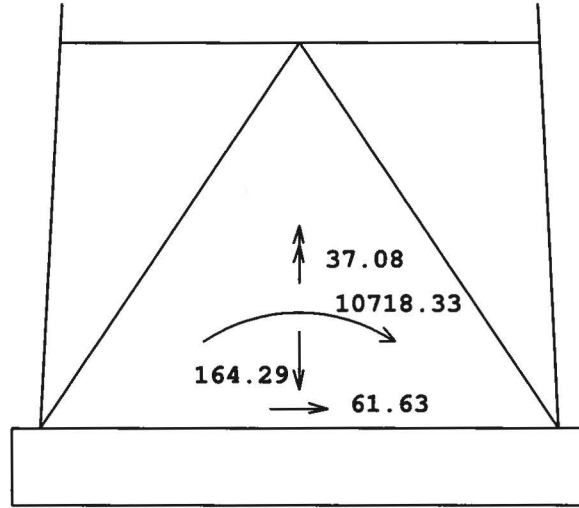


Maximum

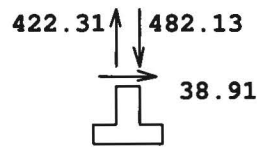
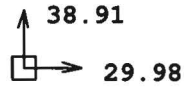


Maximum

TOTAL FOUNDATION LOADS (kip, ft-kip)



INDIVIDUAL FOOTING LOADS (kip)



Latticed Tower Analysis (Unguyed)  
 Processed under license at:

(c)2015 Guymast Inc. 416-736-7453

Sabre Towers and Poles

on: 16 mar 2020 at: 9:52:16

MAST GEOMETRY ( ft )

PANEL TYPE	NO.OF LEGS	ELEV.AT BOTTOM	ELEV.AT TOP	F.W..AT BOTTOM	F.W..AT TOP	TYPICAL PANEL HEIGHT
X	3	285.00	290.00	5.00	5.00	5.00
X	3	280.00	285.00	5.00	5.00	5.00
X	3	275.00	280.00	5.00	5.00	5.00
X	3	260.00	275.00	5.00	5.00	5.00
X	3	255.00	260.00	5.00	5.00	5.00
X	3	240.00	255.00	5.00	5.00	5.00
X	3	235.00	240.00	5.00	5.00	5.00
X	3	220.00	235.00	5.00	5.00	5.00
X	3	215.00	220.00	5.50	5.00	5.00
X	3	200.00	215.00	7.00	5.50	5.00
X	3	180.00	200.00	9.00	7.00	5.00
X	3	160.00	180.00	11.00	9.00	6.67
X	3	140.00	160.00	13.00	11.00	6.67
X	3	120.00	140.00	15.00	13.00	6.67
X	3	100.00	120.00	17.00	15.00	10.00
X	3	80.00	100.00	19.00	17.00	10.00
X	3	60.00	80.00	21.00	19.00	10.00
X	3	40.00	60.00	23.00	21.00	10.00
X	3	20.00	40.00	25.00	23.00	10.00
X	3	0.00	20.00	27.00	25.00	10.00

MEMBER PROPERTIES

MEMBER TYPE	BOTTOM ELEV ft	TOP ELEV ft	X-SECTN AREA in.sq	RADIUS OF GYRAT in	ELASTIC MODULUS ksi	THERMAL EXPANSN /deg
LE	280.00	290.00	1.075	0.787	29000.	0.0000117
LE	260.00	280.00	1.704	0.787	29000.	0.0000117
LE	240.00	260.00	3.678	0.787	29000.	0.0000117
LE	220.00	240.00	6.111	0.787	29000.	0.0000117
LE	180.00	220.00	7.952	0.787	29000.	0.0000117
LE	120.00	180.00	8.399	0.787	29000.	0.0000117
LE	0.00	120.00	12.763	0.787	29000.	0.0000117
DI	260.00	290.00	0.484	0.626	29000.	0.0000117
DI	220.00	260.00	0.938	0.626	29000.	0.0000117
DI	180.00	220.00	0.484	0.626	29000.	0.0000117
DI	160.00	180.00	0.715	0.626	29000.	0.0000117
DI	140.00	160.00	0.902	0.626	29000.	0.0000117
DI	100.00	140.00	1.090	0.626	29000.	0.0000117
DI	60.00	100.00	1.688	0.626	29000.	0.0000117
DI	0.00	60.00	1.938	0.626	29000.	0.0000117
HO	285.00	290.00	0.484	0.626	29000.	0.0000117
HO	275.00	280.00	0.484	0.626	29000.	0.0000117
HO	255.00	260.00	0.938	0.626	29000.	0.0000117
HO	235.00	240.00	0.938	0.626	29000.	0.0000117
HO	215.00	220.00	0.484	0.626	29000.	0.0000117

FACTORED MEMBER RESISTANCES

BOTTOM ELEV ft	TOP ELEV ft	LEGS		DIAGONALS		HORIZONTALS		INT BRACING	
		COMP kip	TENS kip	COMP kip	TENS kip	COMP kip	TENS kip	COMP kip	TENS kip
285.0	290.0	31.48	48.15	7.16	7.16	5.82	5.82	0.00	0.00
280.0	285.0	31.48	48.15	7.16	7.16	0.00	0.00	0.00	0.00
275.0	280.0	57.04	76.50	7.16	7.16	5.82	5.82	0.00	0.00
260.0	275.0	57.04	76.50	7.16	7.16	0.00	0.00	0.00	0.00
255.0	260.0	142.05	165.60	14.32	14.32	10.95	10.95	0.00	0.00
240.0	255.0	142.05	165.60	14.32	14.32	0.00	0.00	0.00	0.00



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235.0	240.0	254.38	274.95	14.32	14.32	10.95	10.95	0.00	0.00
220.0	235.0	254.38	274.95	14.32	14.32	0.00	0.00	0.00	0.00
215.0	220.0	329.84	327.10	7.16	7.16	5.82	5.82	0.00	0.00
200.0	215.0	329.84	327.10	7.16	7.16	0.00	0.00	0.00	0.00
180.0	200.0	329.84	357.75	5.63	5.63	0.00	0.00	0.00	0.00
160.0	180.0	358.08	378.00	5.14	5.14	0.00	0.00	0.00	0.00
140.0	160.0	358.08	378.00	7.46	7.46	0.00	0.00	0.00	0.00
120.0	140.0	358.08	378.00	10.34	10.34	0.00	0.00	0.00	0.00
100.0	120.0	507.33	457.90	6.98	6.98	0.00	0.00	0.00	0.00
80.0	100.0	507.33	457.90	12.53	12.53	0.00	0.00	0.00	0.00
60.0	80.0	507.33	457.90	10.73	10.73	0.00	0.00	0.00	0.00
40.0	60.0	507.33	457.90	13.43	13.43	0.00	0.00	0.00	0.00
20.0	40.0	507.33	457.90	14.31	14.31	0.00	0.00	0.00	0.00
0.0	20.0	507.33	576.00	12.68	12.68	0.00	0.00	0.00	0.00

=====  
 \* Only 3 condition(s) shown in full  
 \* Some wind loads may have been derived from full-scale wind tunnel testing  
 =====

LOADING CONDITION A

106 mph Ultimate wind with no ice. Wind Azimuth: 0°

PL - 0

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY RADIUS ft	LOAD AT AZI	LOAD AZI	FORCES		MOMENTS	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	6.53	4.80	0.00	0.00
C	265.0	0.00	0.0	0.0	4.02	2.40	0.00	0.00
C	255.0	0.00	0.0	0.0	3.99	2.40	0.00	0.00
C	245.0	0.00	0.0	0.0	3.95	2.40	0.00	0.00
D	290.0	0.00	180.0	0.0	0.06	0.04	0.00	0.00
D	285.0	0.00	180.0	0.0	0.06	0.04	0.00	0.00
D	285.0	0.00	42.0	0.0	0.09	0.04	0.03	0.05
D	280.0	0.00	42.0	0.0	0.09	0.04	0.03	0.05
D	280.0	0.00	42.0	0.0	0.09	0.06	0.03	0.05
D	265.0	0.00	42.0	0.0	0.09	0.05	0.03	0.05
D	265.0	0.00	42.0	0.0	0.11	0.06	0.04	0.08
D	260.0	0.00	42.0	0.0	0.11	0.06	0.04	0.08
D	260.0	0.00	42.0	0.0	0.12	0.11	0.04	0.08
D	255.0	0.00	42.0	0.0	0.12	0.11	0.04	0.08
D	255.0	0.00	42.0	0.0	0.12	0.11	0.06	0.08
D	245.0	0.00	42.0	0.0	0.12	0.11	0.06	0.08
D	245.0	0.00	42.0	0.0	0.12	0.11	0.07	0.09
D	240.0	0.00	42.0	0.0	0.12	0.11	0.07	0.09
D	240.0	0.00	42.0	0.0	0.13	0.16	0.07	0.08
D	235.0	0.00	42.0	0.0	0.13	0.16	0.07	0.08
D	235.0	0.00	42.0	0.0	0.12	0.14	0.07	0.08
D	220.0	0.00	42.0	0.0	0.12	0.14	0.07	0.09
D	220.0	0.00	34.2	0.0	0.13	0.16	0.08	0.08
D	205.0	0.00	38.7	0.0	0.13	0.15	0.08	0.08
D	205.0	0.00	40.9	0.0	0.13	0.15	0.07	0.08
D	200.0	0.00	40.9	0.0	0.13	0.15	0.07	0.08
D	200.0	0.00	27.9	0.0	0.13	0.16	0.10	0.08
D	180.0	0.00	32.4	0.0	0.14	0.16	0.09	0.08
D	180.0	0.00	23.5	0.0	0.14	0.17	0.12	0.08
D	160.0	0.00	26.4	0.0	0.14	0.17	0.11	0.08
D	160.0	0.00	20.2	0.0	0.15	0.18	0.14	0.08
D	140.0	0.00	22.3	0.0	0.15	0.19	0.13	0.08
D	140.0	0.00	17.6	0.0	0.16	0.20	0.16	0.07
D	120.0	0.00	19.2	0.0	0.16	0.20	0.14	0.08
D	120.0	0.00	15.8	0.0	0.15	0.24	0.17	0.07
D	110.0	0.00	15.8	0.0	0.15	0.24	0.17	0.07
D	110.0	0.00	16.7	0.0	0.15	0.24	0.17	0.07
D	100.0	0.00	16.7	0.0	0.15	0.24	0.17	0.07
D	100.0	0.00	14.2	0.0	0.15	0.28	0.19	0.07
D	90.0	0.00	14.2	0.0	0.15	0.28	0.19	0.07
D	90.0	0.00	14.9	0.0	0.16	0.28	0.18	0.07
D	80.0	0.00	14.9	0.0	0.16	0.28	0.18	0.07
D	80.0	0.00	12.9	0.0	0.15	0.28	0.21	0.06
D	60.0	0.00	13.5	0.0	0.15	0.29	0.20	0.07

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D	60.0	0.00	11.8	0.0	0.16	0.31	0.23	0.06
D	40.0	0.00	12.3	0.0	0.16	0.31	0.22	0.06
D	40.0	0.00	10.8	0.0	0.15	0.31	0.25	0.05
D	20.0	0.00	11.3	0.0	0.15	0.32	0.24	0.06
D	20.0	0.00	10.0	0.0	0.14	0.32	0.27	0.05
D	0.0	0.00	10.4	0.0	0.14	0.33	0.26	0.05

LOADING CONDITION k

106 mph Ultimate wind with no ice. Wind Azimuth: 0

PL - 0

MAST LOADING

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AT AZI	LOAD AZI	FORCES		MOMENTS	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	6.53	3.60	0.00	0.00
C	265.0	0.00	0.0	0.0	4.02	1.80	0.00	0.00
C	255.0	0.00	0.0	0.0	3.99	1.80	0.00	0.00
C	245.0	0.00	0.0	0.0	3.95	1.80	0.00	0.00
D	290.0	0.00	180.0	0.0	0.06	0.03	0.00	0.00
D	285.0	0.00	180.0	0.0	0.06	0.03	0.00	0.00
D	285.0	0.00	42.0	0.0	0.09	0.03	0.02	0.05
D	280.0	0.00	42.0	0.0	0.09	0.03	0.02	0.05
D	280.0	0.00	42.0	0.0	0.09	0.04	0.02	0.05
D	265.0	0.00	42.0	0.0	0.09	0.04	0.02	0.05
D	265.0	0.00	42.0	0.0	0.11	0.05	0.03	0.08
D	260.0	0.00	42.0	0.0	0.11	0.05	0.03	0.08
D	260.0	0.00	42.0	0.0	0.12	0.08	0.03	0.08
D	245.0	0.00	42.0	0.0	0.12	0.08	0.04	0.09
D	245.0	0.00	42.0	0.0	0.12	0.09	0.05	0.09
D	240.0	0.00	42.0	0.0	0.12	0.09	0.05	0.09
D	240.0	0.00	42.0	0.0	0.13	0.11	0.05	0.08
D	220.0	0.00	42.0	0.0	0.12	0.11	0.05	0.09
D	220.0	0.00	34.2	0.0	0.13	0.12	0.06	0.08
D	205.0	0.00	38.7	0.0	0.13	0.11	0.06	0.08
D	205.0	0.00	40.9	0.0	0.13	0.12	0.05	0.08
D	200.0	0.00	40.9	0.0	0.13	0.12	0.05	0.08
D	200.0	0.00	27.9	0.0	0.13	0.12	0.08	0.08
D	180.0	0.00	32.4	0.0	0.14	0.12	0.07	0.08
D	180.0	0.00	23.5	0.0	0.14	0.13	0.09	0.08
D	160.0	0.00	26.4	0.0	0.14	0.13	0.08	0.08
D	160.0	0.00	20.2	0.0	0.15	0.14	0.10	0.08
D	140.0	0.00	22.3	0.0	0.15	0.14	0.09	0.08
D	140.0	0.00	17.6	0.0	0.16	0.15	0.12	0.07
D	120.0	0.00	19.2	0.0	0.16	0.15	0.11	0.08
D	120.0	0.00	15.8	0.0	0.15	0.18	0.13	0.07
D	100.0	0.00	16.7	0.0	0.15	0.18	0.12	0.07
D	100.0	0.00	14.2	0.0	0.15	0.21	0.15	0.07
D	80.0	0.00	14.9	0.0	0.16	0.21	0.14	0.07
D	80.0	0.00	12.9	0.0	0.15	0.21	0.16	0.06
D	60.0	0.00	13.5	0.0	0.15	0.22	0.15	0.07
D	60.0	0.00	11.8	0.0	0.16	0.23	0.17	0.06
D	40.0	0.00	12.3	0.0	0.16	0.23	0.17	0.06
D	40.0	0.00	10.8	0.0	0.15	0.24	0.19	0.05
D	20.0	0.00	11.3	0.0	0.15	0.24	0.18	0.06
D	20.0	0.00	10.0	0.0	0.14	0.24	0.20	0.05
D	0.0	0.00	10.4	0.0	0.14	0.25	0.20	0.05

LOADING CONDITION AU

30 mph wind with 1.5 ice. Wind Azimuth: 0

PL - 0

MAST LOADING

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AT AZI	LOAD AZI	FORCES		MOMENTS	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	1.56	12.24	0.00	0.00

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C	265.0	0.00	0.0	0.0	0.43	6.09	0.00	0.00
C	255.0	0.00	0.0	0.0	0.43	6.08	0.00	0.00
C	245.0	0.00	0.0	0.0	0.42	6.07	0.00	0.00
D	290.0	0.00	180.0	0.0	0.01	0.18	0.00	0.00
D	285.0	0.00	180.0	0.0	0.01	0.18	0.00	0.00
D	285.0	0.00	42.0	0.0	0.01	0.20	0.12	0.01
D	280.0	0.00	42.0	0.0	0.01	0.20	0.12	0.01
D	280.0	0.00	42.0	0.0	0.02	0.25	0.12	0.01
D	275.0	0.00	42.0	0.0	0.02	0.25	0.12	0.01
D	275.0	0.00	42.0	0.0	0.01	0.21	0.12	0.01
D	265.0	0.00	42.0	0.0	0.01	0.21	0.12	0.01
D	265.0	0.00	42.0	0.0	0.01	0.24	0.18	0.01
D	260.0	0.00	42.0	0.0	0.01	0.24	0.18	0.01
D	260.0	0.00	42.0	0.0	0.02	0.33	0.18	0.01
D	255.0	0.00	42.0	0.0	0.02	0.33	0.18	0.01
D	255.0	0.00	42.0	0.0	0.01	0.30	0.22	0.01
D	245.0	0.00	42.0	0.0	0.01	0.30	0.22	0.01
D	245.0	0.00	42.0	0.0	0.01	0.32	0.25	0.01
D	240.0	0.00	42.0	0.0	0.01	0.32	0.25	0.01
D	240.0	0.00	42.0	0.0	0.02	0.39	0.25	0.01
D	235.0	0.00	42.0	0.0	0.02	0.39	0.25	0.01
D	235.0	0.00	42.0	0.0	0.01	0.35	0.25	0.01
D	220.0	0.00	42.0	0.0	0.01	0.35	0.25	0.01
D	220.0	0.00	34.2	0.0	0.02	0.40	0.29	0.01
D	215.0	0.00	34.2	0.0	0.02	0.40	0.29	0.01
D	215.0	0.00	36.4	0.0	0.01	0.37	0.28	0.01
D	210.0	0.00	36.4	0.0	0.01	0.37	0.28	0.01
D	210.0	0.00	38.7	0.0	0.01	0.37	0.27	0.01
D	205.0	0.00	38.7	0.0	0.01	0.37	0.27	0.01
D	205.0	0.00	40.9	0.0	0.02	0.38	0.25	0.01
D	200.0	0.00	40.9	0.0	0.02	0.38	0.25	0.01
D	200.0	0.00	27.8	0.0	0.02	0.38	0.35	0.01
D	195.0	0.00	27.8	0.0	0.02	0.38	0.35	0.01
D	195.0	0.00	29.3	0.0	0.02	0.39	0.34	0.01
D	190.0	0.00	29.3	0.0	0.02	0.39	0.34	0.01
D	190.0	0.00	30.8	0.0	0.02	0.40	0.32	0.01
D	185.0	0.00	30.8	0.0	0.02	0.40	0.32	0.01
D	185.0	0.00	32.3	0.0	0.02	0.40	0.31	0.01
D	180.0	0.00	32.3	0.0	0.02	0.40	0.31	0.01
D	180.0	0.00	23.5	0.0	0.02	0.41	0.41	0.01
D	173.3	0.00	23.5	0.0	0.02	0.41	0.41	0.01
D	173.3	0.00	24.9	0.0	0.02	0.42	0.39	0.01
D	166.7	0.00	24.9	0.0	0.02	0.42	0.39	0.01
D	166.7	0.00	26.3	0.0	0.02	0.42	0.37	0.01
D	160.0	0.00	26.3	0.0	0.02	0.42	0.37	0.01
D	160.0	0.00	20.2	0.0	0.02	0.45	0.47	0.01
D	153.3	0.00	20.2	0.0	0.02	0.45	0.47	0.01
D	153.3	0.00	21.2	0.0	0.02	0.46	0.45	0.01
D	146.7	0.00	21.2	0.0	0.02	0.46	0.45	0.01
D	146.7	0.00	22.3	0.0	0.02	0.47	0.43	0.01
D	140.0	0.00	22.3	0.0	0.02	0.47	0.43	0.01
D	140.0	0.00	17.6	0.0	0.02	0.50	0.53	0.01
D	120.0	0.00	19.2	0.0	0.02	0.52	0.49	0.01
D	120.0	0.00	15.8	0.0	0.02	0.51	0.58	0.01
D	110.0	0.00	15.8	0.0	0.02	0.51	0.58	0.01
D	110.0	0.00	16.7	0.0	0.02	0.52	0.55	0.01
D	100.0	0.00	16.7	0.0	0.02	0.52	0.55	0.01
D	100.0	0.00	14.2	0.0	0.02	0.57	0.64	0.01
D	80.0	0.00	14.9	0.0	0.02	0.58	0.61	0.01
D	80.0	0.00	12.9	0.0	0.02	0.58	0.69	0.01
D	60.0	0.00	13.5	0.0	0.02	0.59	0.66	0.01
D	60.0	0.00	11.8	0.0	0.02	0.63	0.74	0.01
D	40.0	0.00	12.3	0.0	0.02	0.63	0.72	0.01
D	40.0	0.00	10.8	0.0	0.02	0.63	0.78	0.00
D	20.0	0.00	11.3	0.0	0.02	0.64	0.76	0.01
D	20.0	0.00	10.0	0.0	0.01	0.58	0.41	0.00
D	10.0	0.00	10.0	0.0	0.01	0.58	0.41	0.00
D	10.0	0.00	10.4	0.0	0.01	0.59	0.67	0.00
D	0.0	0.00	10.4	0.0	0.01	0.59	0.67	0.00

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MAXIMUM TENSION IN MAST MEMBERS (kip)

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ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0	----- 0.29 AC	----- 0.85 S	0.44 k	0.00 A

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285.0	-----		0.08 T	0.00 A
	2.36 l	3.33 l		
280.0	-----		1.10 B	0.00 A
	11.08 k	3.52 n		
275.0	-----		0.18 B	0.00 A
	20.23 k	3.82 v		
270.0	-----		0.04 m	0.00 A
	29.37 l	4.01 n		
265.0	-----		0.21 B	0.00 A
	40.41 k	6.14 AF		
260.0	-----		2.34 A	0.00 A
	54.94 k	6.77 k		
255.0	-----		0.31 A	0.00 A
	74.17 k	8.68 v		
250.0	-----		0.03 AD	0.00 A
	94.57 k	8.86 n		
245.0	-----		0.31 A	0.00 A
	117.76 k	11.06 v		
240.0	-----		2.16 A	0.00 A
	144.15 k	11.24 k		
235.0	-----		0.50 A	0.00 A
	174.08 k	11.72 v		
230.0	-----		0.15 AC	0.00 A
	200.96 k	11.86 AF		
225.0	-----		0.51 A	0.00 A
	231.18 k	12.24 D		
220.0	-----		3.12 AC	0.00 A
	247.34 k	3.51 m		
215.0	-----		0.40 A	0.00 A
	253.73 k	3.27 U		
210.0	-----		0.03 A	0.00 A
	257.00 k	3.12 m		
205.0	-----		0.26 A	0.00 A
	262.17 k	3.02 U		
200.0	-----		0.06 A	0.00 A
	265.75 k	2.99 m		
195.0	-----		0.18 A	0.00 A
	270.35 k	2.97 U		
190.0	-----		0.12 A	0.00 A
	274.03 k	2.99 m		
185.0	-----		0.13 A	0.00 A
	278.37 k	3.03 U		
180.0	-----		0.12 A	0.00 A
	282.63 k	3.36 m		
173.3	-----		0.16 A	0.00 A
	288.19 k	3.39 U		
166.7	-----		0.10 A	0.00 A
	293.18 k	3.46 m		
160.0	-----		0.13 A	0.00 A
	298.58 k	3.55 U		
153.3	-----		0.09 A	0.00 A
	303.64 k	3.65 m		
146.7	-----		0.11 A	0.00 A
	309.00 k	3.79 U		
140.0	-----		0.08 A	0.00 A
	314.15 k	3.89 C		
133.3	-----		0.12 A	0.00 A
	319.52 k	4.08 U		
126.7	-----		0.07 A	0.00 A
	324.81 k	4.19 AE		
120.0	-----		0.10 A	0.00 A
	331.49 k	4.80 U		
110.0	-----		0.09 A	0.00 A
	339.44 k	4.94 AE		
100.0	-----		0.09 A	0.00 A
	347.42 k	5.16 U		
90.0	-----		0.08 A	0.00 A
	355.34 k	5.36 U		
80.0	-----		0.07 A	0.00 A
	363.32 k	5.61 AE		
70.0	-----		0.07 A	0.00 A
	371.28 k	5.82 U		
60.0	-----		0.06 A	0.00 A
	379.26 k	6.06 AE		
50.0	-----		0.06 A	0.00 A
	387.23 k	6.30 U		
40.0	-----		0.06 A	0.00 A
	395.23 k	6.54 U		
30.0	-----		0.05 A	0.00 A
	403.21 k	6.75 U		

20.0	-----		20-4208-TJH-R1	
	411.17 k	6.98 U	0.00 k	0.00 A
10.0	-----		0.05 A	0.00 A
	419.03 k	7.11 U		
0.0	-----		0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0	-----		-0.57 S	0.00 A
	-0.66 AU	-0.66 I		
285.0	-----		-0.05 k	0.00 A
	-5.09 S	-3.59 S		
280.0	-----		-0.86 AP	0.00 A
	-14.22 S	-3.64 D		
275.0	-----		-0.12 AD	0.00 A
	-23.93 S	-3.78 n		
270.0	-----		-0.05 U	0.00 A
	-33.35 T	-4.04 D		
265.0	-----		-0.16 AD	0.00 A
	-46.16 S	-6.20 D		
260.0	-----		-2.18 AC	0.00 A
	-61.02 S	-7.09 S		
255.0	-----		-0.26 AC	0.00 A
	-82.77 S	-8.57 AF		
250.0	-----		-0.04 B	0.00 A
	-103.58 S	-8.95 D		
245.0	-----		-0.27 AC	0.00 A
	-129.10 S	-11.04 V		
240.0	-----		-2.03 AC	0.00 A
	-155.99 S	-11.66 S		
235.0	-----		-0.46 AC	0.00 A
	-187.46 S	-11.56 AF		
230.0	-----		-0.16 A	0.00 A
	-214.89 S	-11.99 V		
225.0	-----		-0.47 AC	0.00 A
	-246.43 S	-12.17 AF		
220.0	-----		-3.36 A	0.00 A
	-263.10 S	-3.75 U		
215.0	-----		-0.37 AC	0.00 A
	-270.47 S	-3.11 m		
210.0	-----		-0.03 AC	0.00 A
	-274.13 S	-3.30 U		
205.0	-----		-0.24 AC	0.00 A
	-280.10 S	-2.90 m		
200.0	-----		-0.05 AC	0.00 A
	-284.21 S	-3.14 U		
195.0	-----		-0.17 AC	0.00 A
	-289.55 S	-2.85 C		
190.0	-----		-0.11 AC	0.00 A
	-293.82 S	-3.15 U		
185.0	-----		-0.12 AC	0.00 A
	-298.90 S	-2.91 m		
180.0	-----		-0.11 AC	0.00 A
	-303.91 S	-3.55 U		
173.3	-----		-0.15 AC	0.00 A
	-310.50 S	-3.35 U		
166.7	-----		-0.09 AC	0.00 A
	-316.40 S	-3.65 U		
160.0	-----		-0.12 AC	0.00 A
	-322.84 S	-3.58 U		
153.3	-----		-0.08 AC	0.00 A
	-328.91 S	-3.86 U		
146.7	-----		-0.10 AC	0.00 A
	-335.36 S	-3.85 U		
140.0	-----		-0.07 AC	0.00 A
	-341.59 S	-4.13 U		
133.3	-----		-0.11 AC	0.00 A
	-348.14 S	-4.20 U		
126.7	-----		-0.06 AC	0.00 A
	-354.60 S	-4.42 U		
120.0	-----		-0.09 AC	0.00 A

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110.0	-362.87 S	-5.03 U	-0.08 AC	0.00 A
100.0	-372.87 S	-5.23 U	-0.08 AC	0.00 A
90.0	-383.02 S	-5.42 U	-0.07 AC	0.00 A
80.0	-393.24 S	-5.64 U	-0.07 AC	0.00 A
70.0	-403.57 S	-5.86 U	-0.06 AC	0.00 A
60.0	-413.93 S	-6.08 U	-0.06 AC	0.00 A
50.0	-424.39 S	-6.32 U	-0.05 AC	0.00 A
40.0	-434.94 S	-6.55 U	-0.05 AC	0.00 A
30.0	-445.57 S	-6.79 U	-0.05 AC	0.00 A
20.0	-456.23 S	-6.99 U	0.00 AC	0.00 A
10.0	-466.91 S	-7.16 U	-0.04 AC	0.00 A
0.0	-477.52 S	-7.38 U	0.00 A	0.00 A

FORCE/RESISTANCE RATIO IN LEGS

MAST ELEV ft	-- LEG COMPRESSION --			---- LEG TENSION ----		
	MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
290.00	0.66	31.48	0.02	0.29	48.15	0.01
285.00	5.09	31.48	0.16	2.36	48.15	0.05
280.00	14.22	57.04	0.25	11.08	76.50	0.14
275.00	23.93	57.04	0.42	20.23	76.50	0.26
270.00	33.35	57.04	0.58	29.37	76.50	0.38
265.00	46.16	57.04	0.81	40.41	76.50	0.53
260.00	61.02	142.05	0.43	54.94	165.60	0.33
255.00	82.77	142.05	0.58	74.17	165.60	0.45
250.00	103.58	142.05	0.73	94.57	165.60	0.57
245.00	129.10	142.05	0.91	117.76	165.60	0.71
240.00	155.99	254.38	0.61	144.15	274.95	0.52
235.00	187.46	254.38	0.74	174.08	274.95	0.63
230.00	214.89	254.38	0.84	200.96	274.95	0.73
225.00	246.43	254.38	0.97	231.18	274.95	0.84
220.00	263.10	329.84	0.80	247.34	327.10	0.76
215.00	270.47	329.84	0.82	253.73	327.10	0.78
210.00	274.13	329.84	0.83	257.00	327.10	0.79
205.00	280.10	329.84	0.85	262.17	327.10	0.80
200.00	284.21	329.84	0.86	265.75	357.75	0.74
195.00	289.55	329.84	0.88	270.35	357.75	0.76
190.00	293.82	329.84	0.89	274.03	357.75	0.77
185.00	298.90	329.84	0.91	278.37	357.75	0.78
180.00	303.91	358.08	0.85	282.63	378.00	0.75

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173.33	310.50	358.08	0.87	288.19	378.00	0.76
166.67	316.40	358.08	0.88	293.18	378.00	0.78
160.00	322.84	358.08	0.90	298.58	378.00	0.79
153.33	328.91	358.08	0.92	303.64	378.00	0.80
146.67	335.36	358.08	0.94	309.00	378.00	0.82
140.00	341.59	358.08	0.95	314.15	378.00	0.83
133.33	348.14	358.08	0.97	319.52	378.00	0.85
126.67	354.60	358.08	0.99	324.81	378.00	0.86
120.00	362.87	507.33	0.72	331.49	457.90	0.72
110.00	372.87	507.33	0.73	339.44	457.90	0.74
100.00	383.02	507.33	0.75	347.42	457.90	0.76
90.00	393.24	507.33	0.78	355.34	457.90	0.78
80.00	403.57	507.33	0.80	363.32	457.90	0.79
70.00	413.93	507.33	0.82	371.28	457.90	0.81
60.00	424.39	507.33	0.84	379.26	457.90	0.83
50.00	434.94	507.33	0.86	387.23	457.90	0.85
40.00	445.57	507.33	0.88	395.23	457.90	0.86
30.00	456.23	507.33	0.90	403.21	457.90	0.88
20.00	466.91	507.33	0.92	411.17	576.00	0.71
10.00	477.52	507.33	0.94	419.03	576.00	0.73
0.00						

FORCE/RESISTANCE RATIO IN DIAGONALS

MAST ELEV ft	- DIAG COMPRESSION -			--- DIAG TENSION ---		
	MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
290.00	0.66	7.16	0.09	0.85	7.16	0.12
285.00	3.59	7.16	0.50	3.33	7.16	0.47
280.00	3.64	7.16	0.51	3.52	7.16	0.49
275.00	3.78	7.16	0.53	3.82	7.16	0.53
270.00	4.04	7.16	0.56	4.01	7.16	0.56
265.00	6.20	7.16	0.87	6.14	7.16	0.86
260.00	7.09	14.32	0.49	6.77	14.32	0.47
255.00	8.57	14.32	0.60	8.68	14.32	0.61
250.00	8.95	14.32	0.63	8.86	14.32	0.62
245.00	11.04	14.32	0.77	11.06	14.32	0.77
240.00	11.66	14.32	0.81	11.24	14.32	0.78
235.00	11.56	14.32	0.81	11.72	14.32	0.82
230.00	11.99	14.32	0.84	11.86	14.32	0.83
225.00	12.17	14.32	0.85	12.24	14.32	0.85
220.00	3.75	7.16	0.52	3.51	7.16	0.49

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215.00	3.11	7.16	0.43	3.27	7.16	0.46
210.00	3.30	7.16	0.46	3.12	7.16	0.44
205.00	2.90	7.16	0.40	3.02	7.16	0.42
200.00	3.14	5.63	0.56	2.99	5.63	0.53
195.00	2.85	5.63	0.51	2.97	5.63	0.53
190.00	3.15	5.63	0.56	2.99	5.63	0.53
185.00	2.91	5.63	0.52	3.03	5.63	0.54
180.00	3.55	5.14	0.69	3.36	5.14	0.65
173.33	3.35	5.14	0.65	3.39	5.14	0.66
166.67	3.65	5.14	0.71	3.46	5.14	0.67
160.00	3.58	7.46	0.48	3.55	7.46	0.48
153.33	3.86	7.46	0.52	3.65	7.46	0.49
146.67	3.85	7.46	0.52	3.79	7.46	0.51
140.00	4.13	10.34	0.40	3.89	10.34	0.38
133.33	4.20	10.34	0.41	4.08	10.34	0.39
126.67	4.42	10.34	0.43	4.19	10.34	0.40
120.00	5.03	6.98	0.72	4.80	6.98	0.69
110.00	5.23	6.98	0.75	4.94	6.98	0.71
100.00	5.42	12.53	0.43	5.16	12.53	0.41
90.00	5.64	12.53	0.45	5.36	12.53	0.43
80.00	5.86	10.73	0.55	5.61	10.73	0.52
70.00	6.08	10.73	0.57	5.82	10.73	0.54
60.00	6.32	13.43	0.47	6.06	13.43	0.45
50.00	6.55	13.43	0.49	6.30	13.43	0.47
40.00	6.79	14.31	0.47	6.54	14.31	0.46
30.00	6.99	14.31	0.49	6.75	14.31	0.47
20.00	7.16	12.68	0.56	6.98	12.68	0.55
10.00	7.38	12.68	0.58	7.11	12.68	0.56
0.00						

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

LOAD--COMPONENTS				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
38.91 s	29.98 e	482.13 s	-422.31 k	38.91 s

MAXIMUM TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

HORIZONTAL			DOWN	OVERTURNING		TORSION	
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@ 0.0				@ 0.0	
61.6 S	-48.4 J	61.6 S	164.3 AV	10718.3 S	-8821.5 J	10718.3 S	37.1 h

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 Latticed Tower Analysis (Unguyed) (c)2015 Guymast Inc. 416-736-7453  
 Processed under license at:

Sabre Towers and Poles on: 16 mar 2020 at: 9:52:43  
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 \*\*\*\*\* Service Load Condition \*\*\*\*\*  
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 \* only 1 condition(s) shown in full  
 \* Some wind loads may have been derived from full-scale wind tunnel testing  
 =====

LOADING CONDITION A

60 mph wind with no ice. Wind Azimuth: 0° PL - 0

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	2.19	4.00	0.00	0.00
C	265.0	0.00	0.0	0.0	1.35	2.00	0.00	0.00
C	255.0	0.00	0.0	0.0	1.33	2.00	0.00	0.00
C	245.0	0.00	0.0	0.0	1.32	2.00	0.00	0.00
D	290.0	0.00	180.0	0.0	0.02	0.03	0.00	0.00
D	285.0	0.00	180.0	0.0	0.02	0.03	0.00	0.00
D	285.0	0.00	42.0	0.0	0.03	0.04	0.02	0.02
D	280.0	0.00	42.0	0.0	0.03	0.04	0.02	0.02
D	280.0	0.00	42.0	0.0	0.03	0.05	0.02	0.01
D	260.0	0.00	42.0	0.0	0.03	0.05	0.03	0.02
D	260.0	0.00	42.0	0.0	0.04	0.09	0.03	0.03
D	240.0	0.00	42.0	0.0	0.04	0.09	0.06	0.03
D	240.0	0.00	42.0	0.0	0.04	0.13	0.06	0.03
D	220.0	0.00	42.0	0.0	0.04	0.12	0.06	0.03
D	220.0	0.00	34.2	0.0	0.04	0.13	0.07	0.03
D	205.0	0.00	38.7	0.0	0.04	0.13	0.06	0.03
D	205.0	0.00	40.9	0.0	0.04	0.13	0.06	0.03
D	200.0	0.00	40.9	0.0	0.04	0.13	0.06	0.03
D	200.0	0.00	27.9	0.0	0.04	0.13	0.09	0.03
D	180.0	0.00	32.4	0.0	0.05	0.13	0.07	0.03
D	180.0	0.00	23.5	0.0	0.05	0.14	0.10	0.03
D	160.0	0.00	26.4	0.0	0.05	0.14	0.09	0.03
D	160.0	0.00	20.2	0.0	0.05	0.15	0.12	0.03
D	140.0	0.00	22.3	0.0	0.05	0.16	0.10	0.03
D	140.0	0.00	17.6	0.0	0.06	0.17	0.13	0.02
D	120.0	0.00	19.2	0.0	0.06	0.17	0.12	0.03
D	120.0	0.00	15.8	0.0	0.05	0.20	0.15	0.02
D	100.0	0.00	16.7	0.0	0.05	0.20	0.14	0.02
D	100.0	0.00	14.2	0.0	0.05	0.23	0.16	0.02
D	80.0	0.00	14.9	0.0	0.05	0.23	0.15	0.02
D	80.0	0.00	12.9	0.0	0.05	0.24	0.18	0.02
D	60.0	0.00	13.5	0.0	0.05	0.24	0.17	0.02
D	60.0	0.00	11.8	0.0	0.05	0.25	0.19	0.02
D	40.0	0.00	12.3	0.0	0.06	0.26	0.19	0.02
D	40.0	0.00	10.8	0.0	0.05	0.26	0.21	0.02
D	20.0	0.00	11.3	0.0	0.05	0.27	0.20	0.02
D	20.0	0.00	10.0	0.0	0.05	0.27	0.23	0.02
D	0.0	0.00	10.4	0.0	0.05	0.27	0.22	0.02

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 MAXIMUM MAST DISPLACEMENTS:  
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ELEV      -----DEFLECTIONS (ft)-----      --TILTS (DEG)---      TWIST

ft	20-4208-TJH-R1						DEG
	NORTH	EAST	DOWN	NORTH	EAST		
290.0	2.001 S	1.754 b	0.020 S	0.992 S	0.894 b	-0.122 P	
285.0	1.915 S	1.676 b	0.020 S	0.992 S	0.894 b	-0.122 P	
280.0	1.828 S	1.597 b	0.019 S	0.988 S	0.890 b	-0.122 P	
275.0	1.741 S	1.519 b	0.018 S	0.980 S	0.882 b	-0.121 P	
270.0	1.655 S	1.442 b	0.017 S	0.965 S	0.868 b	-0.120 P	
265.0	1.571 S	1.366 b	0.016 S	0.944 S	0.847 b	-0.118 P	
260.0	1.489 S	1.292 b	0.015 S	0.914 S	0.819 b	-0.116 P	
255.0	1.409 S	1.221 b	0.015 S	0.896 S	0.802 b	-0.114 P	
250.0	1.331 S	1.151 b	0.014 S	0.872 S	0.779 b	-0.112 P	
245.0	1.255 S	1.083 b	0.013 S	0.841 S	0.750 b	-0.110 P	
240.0	1.182 S	1.019 b	0.012 S	0.802 S	0.713 b	-0.107 P	
235.0	1.112 S	0.956 b	0.012 S	0.773 S	0.687 b	-0.104 P	
230.0	1.046 S	0.897 b	0.011 S	0.739 S	0.655 b	-0.100 P	
225.0	0.980 S	0.839 b	0.011 S	0.700 S	0.618 b	-0.096 P	
220.0	0.921 S	0.787 b	0.010 S	0.655 S	0.577 b	-0.092 P	
215.0	0.864 S	0.737 b	0.010 S	0.619 S	0.544 b	-0.083 P	
210.0	0.812 S	0.691 b	0.010 S	0.587 S	0.514 b	-0.076 P	
205.0	0.761 S	0.647 b	0.009 S	0.556 S	0.486 b	-0.069 P	
200.0	0.714 S	0.606 b	0.009 S	0.528 S	0.460 b	-0.063 P	
195.0	0.668 S	0.566 b	0.009 S	0.500 S	0.435 b	-0.058 P	
190.0	0.626 S	0.530 b	0.008 S	0.475 S	0.412 b	-0.053 P	
185.0	0.585 S	0.494 b	0.008 S	0.450 S	0.390 b	-0.048 P	
180.0	0.547 S	0.461 b	0.008 S	0.427 S	0.369 b	-0.043 P	
173.3	0.498 S	0.419 b	0.007 S	0.398 S	0.343 b	-0.039 P	
166.7	0.453 S	0.381 b	0.007 S	0.371 S	0.319 b	0.035 h	
160.0	0.411 S	0.345 b	0.007 S	0.345 S	0.296 b	0.032 h	
153.3	0.372 S	0.312 b	0.006 S	0.320 S	0.274 b	0.029 h	
146.7	0.336 S	0.281 b	0.006 S	0.296 S	0.253 b	0.026 h	
140.0	0.302 S	0.252 b	0.006 S	0.273 S	0.233 b	0.024 h	
133.3	0.271 S	0.226 b	0.005 S	0.251 S	0.213 b	0.022 h	
126.7	0.243 S	0.202 b	0.005 S	0.229 S	0.194 b	0.020 h	
120.0	0.217 S	0.181 b	0.005 S	0.208 S	0.176 b	0.018 h	
110.0	0.182 S	0.151 b	0.005 S	0.188 S	0.159 b	0.015 h	
100.0	0.150 S	0.124 b	0.004 S	0.169 S	0.142 b	0.013 h	
90.0	0.122 S	0.101 b	0.004 S	0.150 S	0.126 b	0.011 h	
80.0	0.097 S	0.080 b	0.004 S	0.132 S	0.110 b	0.010 h	
70.0	0.075 S	0.061 b	0.003 S	0.114 S	0.095 b	0.009 h	
60.0	0.056 S	0.045 b	0.003 S	0.097 S	0.081 b	0.007 h	
50.0	0.040 S	0.032 b	0.002 S	0.080 S	0.067 b	0.006 h	
40.0	0.026 S	0.021 b	0.002 S	0.063 S	0.053 b	0.005 h	
30.0	0.016 S	0.013 b	0.001 d	0.047 S	0.039 b	0.003 h	
20.0	0.008 S	0.007 b	0.001 d	0.031 S	0.026 b	0.002 h	
10.0	0.002 S	0.002 b	0.001 d	0.015 S	0.013 b	0.001 h	
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0	-----	-----	0.10 A	0.00 A
285.0	0.00 A	0.34 T	0.03 S	0.00 A
280.0	0.00 A	1.05 B	0.44 B	0.00 A
275.0	2.75 A	1.14 E	0.08 B	0.00 A
270.0	5.70 A	1.30 W	0.01 O	0.00 A
265.0	8.75 A	1.35 V	0.08 B	0.00 A
260.0	11.98 A	2.05 D	0.83 A	0.00 A
255.0	16.85 A	2.21 A	0.12 A	0.00 A
250.0	22.61 A	2.95 V	0.01 T	0.00 A
245.0	29.46 A	2.95 D	0.12 A	0.00 A
240.0	36.64 A	3.73 V	0.76 A	0.00 A
235.0	45.50 A	3.71 A	0.18 A	0.00 A
230.0	55.26 A	3.99 V	0.05 S	0.00 A
	64.30 A	3.95 D		

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225.0	-----		0.18 A	0.00 A
	74.25 A	4.14 V		
220.0	-----		0.95 S	0.00 A
	79.66 A	1.13 C		
215.0	-----		0.14 A	0.00 A
	81.57 A	1.13 U		
210.0	-----		0.01 A	0.00 A
	82.62 A	1.03 C		
205.0	-----		0.09 A	0.00 A
	84.17 A	1.03 U		
200.0	-----		0.02 A	0.00 A
	85.29 A	1.00 C		
195.0	-----		0.07 A	0.00 A
	86.69 A	1.02 U		
190.0	-----		0.04 A	0.00 A
	87.82 A	1.01 C		
185.0	-----		0.05 A	0.00 A
	89.13 A	1.04 U		
180.0	-----		0.04 A	0.00 A
	90.44 A	1.14 C		
173.3	-----		0.06 A	0.00 A
	92.13 A	1.16 U		
166.7	-----		0.04 A	0.00 A
	93.64 A	1.18 C		
160.0	-----		0.05 A	0.00 A
	95.28 A	1.22 U		
153.3	-----		0.03 A	0.00 A
	96.81 A	1.25 C		
146.7	-----		0.04 A	0.00 A
	98.43 A	1.30 U		
140.0	-----		0.03 A	0.00 A
	99.98 A	1.34 C		
133.3	-----		0.04 A	0.00 A
	101.60 A	1.41 U		
126.7	-----		0.02 A	0.00 A
	103.18 A	1.44 U		
120.0	-----		0.04 A	0.00 A
	105.16 A	1.65 U		
110.0	-----		0.03 A	0.00 A
	107.48 A	1.70 U		
100.0	-----		0.03 A	0.00 A
	109.78 A	1.78 U		
90.0	-----		0.03 A	0.00 A
	112.03 A	1.86 U		
80.0	-----		0.03 A	0.00 A
	114.29 A	1.94 U		
70.0	-----		0.03 A	0.00 A
	116.56 A	2.02 U		
60.0	-----		0.02 A	0.00 A
	118.80 A	2.10 U		
50.0	-----		0.02 A	0.00 A
	121.03 A	2.19 U		
40.0	-----		0.02 A	0.00 A
	123.25 A	2.27 U		
30.0	-----		0.02 A	0.00 A
	125.47 A	2.35 U		
20.0	-----		0.00 A	0.00 A
	127.66 A	2.43 U		
10.0	-----		0.02 A	0.00 A
	129.82 A	2.47 U		
0.0	-----		0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0	-----		-0.23 T	0.00 A
	-0.30 A	-0.16 A		
285.0	-----		-0.01 A	0.00 A
	-2.47 S	-1.27 S		
280.0	-----		-0.21 T	0.00 A
	-5.62 S	-1.26 W		
275.0	-----		-0.02 T	0.00 A

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270.0	-8.98 S	-1.26 E	-0.02 g	0.00 A
265.0	-12.18 S	-1.37 D	-0.03 T	0.00 A
260.0	-16.93 S	-2.10 V	-0.67 S	0.00 A
255.0	-21.94 S	-2.44 S	-0.07 S	0.00 A
250.0	-29.86 S	-2.84 D	-0.02 B	0.00 A
245.0	-36.86 S	-3.04 V	-0.07 S	0.00 A
240.0	-45.98 S	-3.71 D	-0.64 S	0.00 A
235.0	-55.03 S	-3.98 S	-0.14 S	0.00 A
230.0	-65.89 S	-3.84 D	-0.06 A	0.00 A
225.0	-75.13 S	-4.07 V	-0.14 S	0.00 A
220.0	-85.95 S	-4.08 D	-1.22 A	0.00 A
215.0	-91.61 S	-1.31 U	-0.11 S	0.00 A
210.0	-94.33 S	-1.03 C	-0.01 S	0.00 A
205.0	-95.65 S	-1.14 U	-0.07 S	0.00 A
200.0	-97.85 S	-0.97 C	-0.01 S	0.00 A
195.0	-99.35 S	-1.09 U	-0.05 S	0.00 A
190.0	-101.34 S	-0.97 C	-0.03 S	0.00 A
185.0	-102.91 S	-1.09 U	-0.04 S	0.00 A
180.0	-104.79 S	-0.99 C	-0.03 S	0.00 A
173.3	-106.65 S	-1.23 U	-0.05 S	0.00 A
166.7	-109.13 S	-1.14 U	-0.03 S	0.00 A
160.0	-111.34 S	-1.26 U	-0.04 S	0.00 A
153.3	-113.77 S	-1.23 U	-0.03 S	0.00 A
146.7	-116.06 S	-1.34 U	-0.03 S	0.00 A
140.0	-118.50 S	-1.33 U	-0.02 S	0.00 A
133.3	-120.87 S	-1.44 U	-0.03 S	0.00 A
126.7	-123.37 S	-1.45 U	-0.02 S	0.00 A
120.0	-125.83 S	-1.54 U	-0.03 S	0.00 A
110.0	-129.01 S	-1.75 U	-0.02 S	0.00 A
100.0	-132.89 S	-1.82 U	-0.02 S	0.00 A
90.0	-136.85 S	-1.89 U	-0.02 S	0.00 A
80.0	-140.87 S	-1.97 U	-0.02 S	0.00 A
70.0	-144.94 S	-2.05 U	-0.02 S	0.00 A
60.0	-149.03 S	-2.13 U	-0.02 S	0.00 A
50.0	-153.17 S	-2.22 U	-0.02 S	0.00 A
40.0	-157.37 S	-2.29 U	-0.01 S	0.00 A
30.0	-161.59 S	-2.38 U	-0.01 S	0.00 A
20.0	-165.84 S	-2.45 U	0.00 S	0.00 A
10.0	-170.10 S	-2.52 U	-0.01 S	0.00 A
0.0	-174.34 S	-2.58 U	0.00 A	0.00 A

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MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

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-----LOAD-----		---COMPONENTS---		TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
14.00 s	10.88 e	176.21 s	-130.68 A	14.00 s

MAXIMUM TOTAL LOADS ON FOUNDATION : (kip & kip-ft)

=====

-----HORIZONTAL-----			DOWN	-----OVERTURNING-----			TORSION
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@ 0.0				@ 0.0	
21.1 s	16.7 b	21.1 s	59.4 d	3657.7 s	3022.5 b	3657.7 s	12.4 h

=====

**DRILLED STRAIGHT PIER DESIGN BY SABRE INDUSTRIES**

290' S3TL Series HD1 HORVATH COMMUNICATIONS INC Barlow, KY (20-4208-TJH-R1) 03/16/20 REB

Factored Uplift (kips)	422		
Factored Download (kips)	482		
Factored Shear (kips)	39		
Ultimate Bearing Pressure	13.825		
Bearing $\Phi_s$	0.75		
Bearing Design Strength (ksf)	10.36875		
Water Table Below Grade (ft)	24		
Bolt Circle Diameter (in)	13.25		
Top of Concrete to Top of Bottom Threads (in)	65.125		
Pier Diameter (ft)	6	Minimum Pier Diameter (ft)	2.44
Ht. Above Ground (ft)	0.5		
Pier Length Below Ground (ft)	39.5		
Rebar Quantity	18		
Rebar Diameter (in)	1.27		
Rebar Area (in <sup>2</sup> )	22.80	Minimum Area of Steel (in <sup>2</sup> )	20.36
Rebar Spacing (in)	11.07		
Tie Diameter (in)	0.5		
Tie Spacing (in)	12		
$f'_c$ (ksi)	4.5		
$f_y$ (ksi)	60		
Unit Wt. of Concrete (kcf)	0.15		
Volume of Concrete (yd <sup>3</sup> )	41.89		

Depth at Bottom of Layer (ft)	Ult. Skin Friction (ksf)	Ult. Skin Friction (Uplift)	$\gamma$ (kcf)
3	0.10	0.10	0.11
20	0.30	0.30	0.11
28	0.75	0.75	0.11
33	0.75	0.75	0.11
37	1.00	1.00	0.11
40	0.75	0.75	0.11
Length to Ignore Download (ft)	0		

**DRILLED STRAIGHT PIER DESIGN BY SABRE INDUSTRIES (CONTINUED)**

**Download:**

$\Phi_s$ , Download Friction	0.75		
$Q_f$ , Skin Friction (kips)	396.3	$W_s$ (kips)	122.9
$Q_b$ , End Bearing Strength (kips)	390.9	$W_c$ (kips)	169.6
Download Design Strength (kips)	590.4	Factored Net Download (kips)	538.2

**Uplift (skin friction):**

$\Phi_s$ , Uplift	0.75		
$Q_f$ , Skin Friction (kips)	396.3		
$W_c$ (kips)	169.6		
$W_w$ (kips)	27.3		
Uplift Design Strength (kips)	425.3	Factored Uplift (kips)	422.0

**Uplift (cone):**

$W_{s,cone}$ (kips)	3300.3		
$W_{w,cone}$ (kips)	162.7		
$W_c$ (kips)	169.6		
$W_{w,cyl}$ (kips)	27.3		
Uplift Design Strength (kips)	2951.9	Factored Uplift (kips)	422.0

**Tension:**

Design Tensile Strength (kips)	1231.3	$T_u$ (kips)	422.0
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**Shear:**

$\phi V_n$ (kips)	374.9	$V_u$ (kips)	39.0
$\phi V_c = \phi 2(1 + N_u / (500A_g)) f'_c{}^{1/2} b_w d$ (kips)	374.9		
$V_s$ (kips)	0.0	*** $V_s \text{ max} = 4 f'_c{}^{1/2} b_w d$ (kips)	1112.8
Maximum Spacing (in)	6.50	(Only if Shear Ties are Required)	
		*** Ref. ACI 11.5.5 & 11.5.6.3	

**Anchor Bolt Pull-Out:**

$\phi P_c = \phi \lambda (2/3) f'_c{}^{1/2} (2.8A_{SLOPE} + 4A_{FLAT})$	613.1	$P_u$ (kips)	422.0
Rebar Development Length (in)	36.89	Required Development Length (in)	N/A

Condition	1 is OK, 0 Fails
Download	1
Uplift	1
Area of Steel	1
Shear	1
Anchor Bolt Pull-Out	1
Interaction Diagram	1

**MAT FOUNDATION DESIGN BY SABRE INDUSTRIES**

290' S3TL Series HD1 HORVATH COMMUNICATIONS INC Barlow, KY (20-4208-TJH-R1) 03/16/20 REB

<b>Overall Loads:</b>			
Factored Moment (ft-kips)	10718.33		
Factored Axial (kips)	164.29		
Factored Shear (kips)	61.63		
<b>Individual Leg Loads:</b>			
Factored Uplift (kips)	422.00	Tower eccentric from mat (ft)=	2.25
Factored Download (kips)	482.00		
Factored Shear (kips)	39.00		
Width of Tower (ft)	27	Allowable Bearing Pressure (ksf)	2.00
Ultimate Bearing Pressure	4.00	Safety Factor	2.00
Bearing $\Phi_s$	0.75		
Bearing Design Strength (ksf)	3	Max. Factored Net Bearing Pressure (ksf)	2.92
Water Table Below Grade (ft)	24		
Width of Mat (ft)	35	Minimum Mat Width (ft)	33.17
Thickness of Mat (ft)	1.5		
Depth to Bottom of Slab (ft)	6		
Bolt Circle Diameter (in)	13.25		
Top of Concrete to Top of Bottom Threads (in)	65.125	Minimum Pier Diameter (ft)	2.44
Diameter of Pier (ft)	3.5	Equivalent Square b (ft)	3.10
Ht. of Pier Above Ground (ft)	0.5		
Ht. of Pier Below Ground (ft)	4.5		
Quantity of Bars in Mat	61		
Bar Diameter in Mat (in)	1.128		
Area of Bars in Mat (in <sup>2</sup> )	60.96		
Spacing of Bars in Mat (in)	6.88	Recommended Spacing (in)	6 to 12
Quantity of Bars Pier	18		
Bar Diameter in Pier (in)	1		
Tie Bar Diameter in Pier (in)	0.5		
Spacing of Ties (in)	11		
Area of Bars in Pier (in <sup>2</sup> )	14.14	Minimum Pier $A_s$ (in <sup>2</sup> )	6.93
Spacing of Bars in Pier (in)	5.90	Recommended Spacing (in)	5 to 12
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 (yd <sup>3</sup> )	73.40		



**MAT FOUNDATION DESIGN BY SABRE INDUSTRIES (CONTINUED)**

**Two-Way Shear:**

Average d (in)	13.872
$\phi v_c$ (ksi)	0.228
$\phi v_c = \phi(2 + 4/\beta_c)f'_c{}^{1/2}$	0.342
$\phi v_c = \phi(\alpha_s d/b_o + 2)f'_c{}^{1/2}$	0.294
$\phi v_c = \phi 4f'_c{}^{1/2}$	0.228
Shear perimeter, $b_o$ (in)	175.53
$\beta_c$	1

$v_u$  (ksi)

0.216

**Stability:**

Overturning Design Strength (ft-k) 14706.0

Factored Overturning Moment (ft-k) 11118.9

**One-Way Shear:**

$\phi V_c$  (kips) 664.4

$V_u$  (kips) 479.1

**Pier Design:**

Design Tensile Strength (kips) 763.4

$T_u$  (kips) 422.0

$\phi V_n$  (kips) 124.1

$V_u$  (kips) 39.0

$\phi V_c = \phi 2(1 + N_u/(500A_g))f'_c{}^{1/2}b_w d$  62.9

$V_s$  (kips) 72.0

\*\*\*  $V_s$  max =  $4 f'_c{}^{1/2}b_w d$  (kips) 378.7

Maximum Spacing (in) 11.15

(Only if Shear Ties are Required)

Actual Hook Development (in) 12.74

Req'd Hook Development  $l_{dh}$  (in) 12.52

\*\*\* Ref. ACI 11.5.5 & 11.5.6.3

**Anchor Bolt Pull-Out:**

$\phi P_c = \phi \lambda (2/3)f'_c{}^{1/2}(2.8A_{SLOPE} + 4A_{FLAT})$  208.8

$P_u$  (kips) 422.0

Pier Rebar Development Length (in) 51.75

Required Length of Development (in) 24.72

**Flexure in Slab:**

$\phi M_n$  (ft-kips) 3493.0

$M_u$  (ft-kips) 3479.0

a (in) 2.28

Steel Ratio 0.01046

$\beta_1$  0.825

Maximum Steel Ratio ( $\rho_t$ ) 0.0197

Minimum Steel Ratio 0.0018

Condition	1 is OK, 0 Fails
Minimum Mat Width	1
Maximum Soil Bearing Pressure	1
Pier Area of Steel	1
Pier Shear	1
Two-Way Shear	1
Overturning	1
Anchor Bolt Pull-Out	1
Flexure	1
Steel Ratio	1
Interaction Diagram	1
One-Way Shear	1
Hook Development	1
Minimum Mat Depth	1

**EXHIBIT D**  
**COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST**

# KY Public Service Commission

## Master Utility Search

- Search for the utility of interest by using any single or combination of criteria.
- Enter Partial names to return the closest match for Utility Name and Address/City/Contact entries.

Utility ID	Utility Name	Address/City/Contact	Utility Type	Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Active <input type="text"/>
<input type="button" value="Search"/>				

	Utility ID	Utility Name	Utility Type	Class	City	State
<input type="button" value="View"/>	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	San Francisco	CA
<input type="button" value="View"/>	4108300	Air Voice Wireless, LLC	Cellular	B	Bloomfield Hill	MI
<input type="button" value="View"/>	4110650	Alliant Technologies of KY, L.L.C.	Cellular	D	Morristown	NJ
<input type="button" value="View"/>	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
<input type="button" value="View"/>	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
<input type="button" value="View"/>	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	OH
<input type="button" value="View"/>	4108650	AmeriMex Communications Corp.	Cellular	D	Dunedin	FL
<input type="button" value="View"/>	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
<input type="button" value="View"/>	4110700	Andrew David Balholm dba Norcell	Cellular	D	Clayton	WA
<input type="button" value="View"/>	4105700	Assurance Wireless USA, L.P.	Cellular	A	Atlanta	GA
<input type="button" value="View"/>	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
<input type="button" value="View"/>	4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
<input type="button" value="View"/>	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
<input type="button" value="View"/>	4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY
<input type="button" value="View"/>	4107600	Boomerang Wireless, LLC	Cellular	B	Hiawatha	IA
<input type="button" value="View"/>	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
<input type="button" value="View"/>	4100700	Cellco Partnership dba Verizon	Cellular	A	Basking	NJ

		Wireless			Ridge	
<a href="#">View</a>	4106600	Cintex Wireless, LLC	Cellular	D	Rockville	MD
<a href="#">View</a>	4111150	Comcast OTR1, LLC	Cellular	C	Philadelphia	PA
<a href="#">View</a>	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
<a href="#">View</a>	4106400	Credo Mobile, Inc.	Cellular	A	San Francisco	CA
<a href="#">View</a>	4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
<a href="#">View</a>	4111500	CSC Wireless, LLC d/b/a Altice Wireless	Cellular	C	Long Island City	NY
<a href="#">View</a>	10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	KY
<a href="#">View</a>	4111650	DataBytes, Inc.	Cellular	C	Rogers	AR
<a href="#">View</a>	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
<a href="#">View</a>	4111800	Earthlink, LLC	Cellular	C	Atlanta	GA
<a href="#">View</a>	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
<a href="#">View</a>	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
<a href="#">View</a>	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
<a href="#">View</a>	4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
<a href="#">View</a>	4105900	Flash Wireless, LLC	Cellular	C	Concord	NC
<a href="#">View</a>	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Oak Hill	VA
<a href="#">View</a>	4111750	Gabb Wireless, Inc.	Cellular	C	Palo Alto	CA
<a href="#">View</a>	4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
<a href="#">View</a>	4102200	Globalstar USA, LLC	Cellular	B	Covington	LA
<a href="#">View</a>	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
<a href="#">View</a>	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
<a href="#">View</a>	4106000	GreatCall, Inc. d/b/a Jitterbug	Cellular	A	San Diego	CA
<a href="#">View</a>	10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
<a href="#">View</a>	4103100	i-Wireless, LLC	Cellular	B	Newport	KY
<a href="#">View</a>	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Dallas	TX
<a href="#">View</a>	22215360	KDDI America, Inc.	Cellular	D	Staten Island	NY
<a href="#">View</a>	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	10680	Kentucky RSA #3 Cellular General	Cellular	A	Elizabethtown	KY
<a href="#">View</a>	10681	Kentucky RSA #4 Cellular General	Cellular	A	Elizabethtown	KY
<a href="#">View</a>	4111250	Liberty Mobile Wireless, LLC	Cellular	D	Sunny Isles Beach	FL
<a href="#">View</a>	4111550	Lingo Telecom of the South, LLC	Cellular	D	Atlanta	GA

<a href="#">View</a>	4111400	Locus Telecommunications, LLC	Cellular	A	Fort Lee	NJ
<a href="#">View</a>	4110900	Lunar Labs, Inc.	Cellular	D	Detroit	MI
<a href="#">View</a>	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
<a href="#">View</a>	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
<a href="#">View</a>	4111700	Mint Mobile, LLC	Cellular	C	Costa Mesa	CA
<a href="#">View</a>	4109650	Mitel Cloud Services, Inc.	Cellular	D	Mesa	AZ
<a href="#">View</a>	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
<a href="#">View</a>	10900	New Par dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
<a href="#">View</a>	4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS
<a href="#">View</a>	4001800	OnStar, LLC	Cellular	A	Detroit	MI
<a href="#">View</a>	4110750	Onvoy Spectrum, LLC	Cellular	D	Chicago	IL
<a href="#">View</a>	4109050	Patriot Mobile LLC	Cellular	D	Irving	TX
<a href="#">View</a>	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
<a href="#">View</a>	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
<a href="#">View</a>	4107700	Puretalk Holdings, LLC	Cellular	A	Covington	GA
<a href="#">View</a>	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
<a href="#">View</a>	4108700	Ready Wireless, LLC	Cellular	B	Hiawatha	IA
<a href="#">View</a>	4110500	Republic Wireless, Inc.	Cellular	A	Raleigh	NC
<a href="#">View</a>	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	D	Los Angeles	CA
<a href="#">View</a>	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Fremont	NE
<a href="#">View</a>	4110150	Spectrotel, Inc. d/b/a Touch Base Communications	Cellular	D	Neptune	NJ
<a href="#">View</a>	4111450	Spectrum Mobile, LLC	Cellular	C	St. Louis	MO
<a href="#">View</a>	4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
<a href="#">View</a>	4200500	SprintCom, Inc.	Cellular	A	Atlanta	GA
<a href="#">View</a>	4109550	Stream Communications, LLC	Cellular	D	Dallas	TX
<a href="#">View</a>	4111600	STX Group LLC dba Twigby	Cellular	C	Murfreesboro	TN
<a href="#">View</a>	4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular	D	Red Bluff	CA
<a href="#">View</a>	4202200	T-Mobile Central, LLC dba T- Mobile	Cellular	A	Bellevue	WA
<a href="#">View</a>	4002500	TAG Mobile, LLC	Cellular	D	Carrollton	TX
<a href="#">View</a>	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	Portland	ME
<a href="#">View</a>	4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
<a href="#">View</a>	4108900	Telrite Corporation	Cellular	D	Covington	GA
<a href="#">View</a>	4108450	Tempo Telecom, LLC	Cellular	B	Atlanta	GA

<a href="#">View</a>	4109000	Ting, Inc.	Cellular	A	Toronto	ON
<a href="#">View</a>	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
<a href="#">View</a>	4103300	Touchtone Communications, Inc.	Cellular	D	Whippany	NJ
<a href="#">View</a>	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
<a href="#">View</a>	4002000	Truphone, Inc.	Cellular	D	Durham	NC
<a href="#">View</a>	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	D	Costa Mesa	CA
<a href="#">View</a>	4110800	Visible Service LLC	Cellular	D	Basking Ridge	NJ
<a href="#">View</a>	4106500	WiMacTel, Inc.	Cellular	D	Palo Alto	CA
<a href="#">View</a>	4110950	Wing Tel Inc.	Cellular	D	New York	NY

**EXHIBIT E**  
**FAA**



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

Aeronautical Study No.  
 2019-ASO-26576-OE

Issued Date: 10/07/2019

Network Regulatory  
 Kentucky RSA No. 1 Partnership  
 5055 North Point Pkwy  
 Alpharetta, GA 30005

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

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

Structure: Antenna Tower EV Barlow SE - C - 2505006  
 Location: Wickliffe, KY  
 Latitude: 37-01-45.61N NAD 83  
 Longitude: 89-00-07.63W  
 Heights: 443 feet site elevation (SE)  
 299 feet above ground level (AGL)  
 742 feet above mean sea level (AMSL)

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

As a condition to this Determination, the structure is to be marked/lighted in accordance with FAA Advisory circular 70/7460-1 L Change 2, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

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

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

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

This determination expires on 04/07/2021 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.



- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

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

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

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

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

If we can be of further assistance, please contact our office at (718) 553-2611, or [angelique.eersteling@faa.gov](mailto:angelique.eersteling@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ASO-26576-OE.

**Signature Control No: 415690004-419042715**

( DNE )

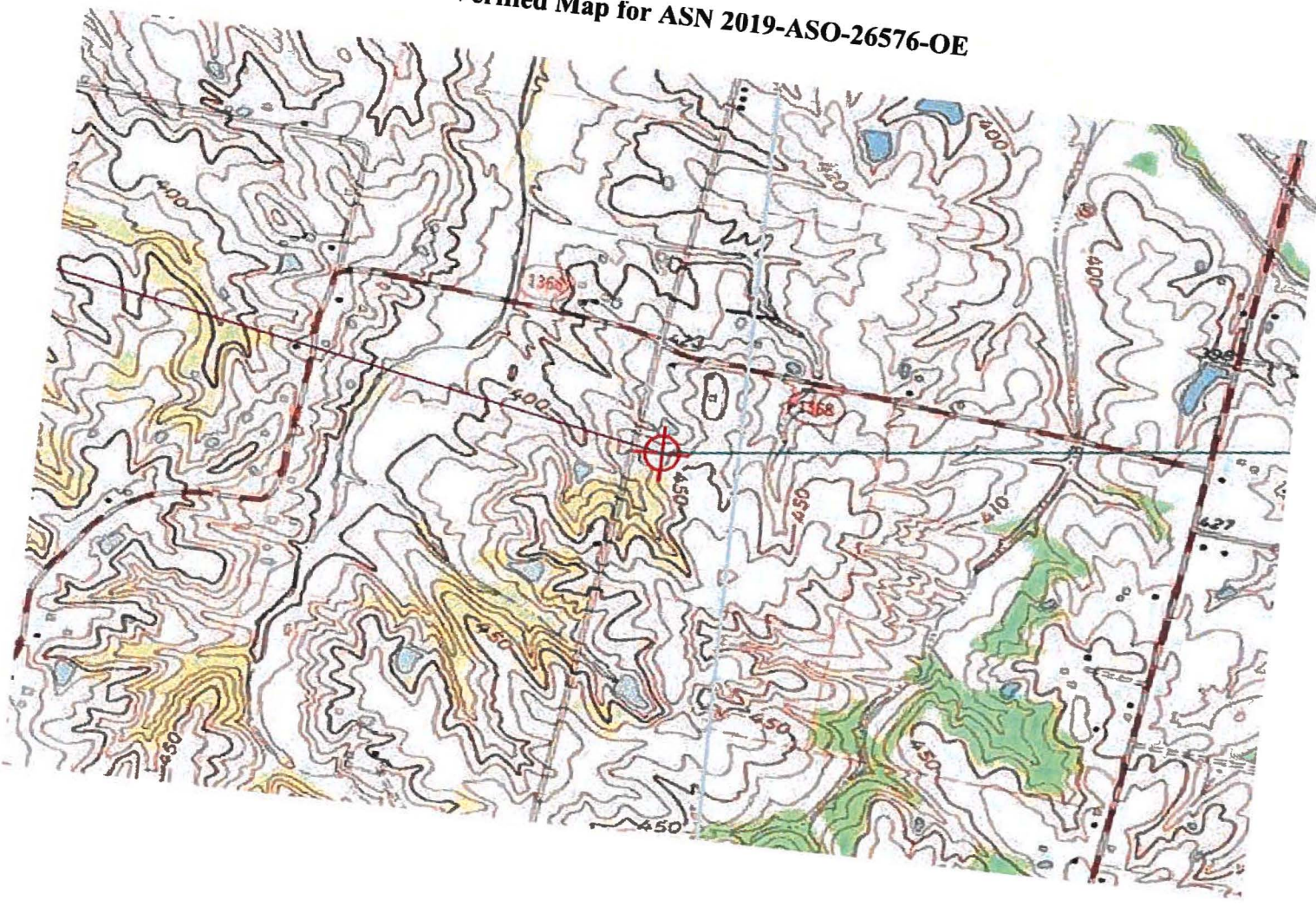
Angelique Eersteling  
Technician

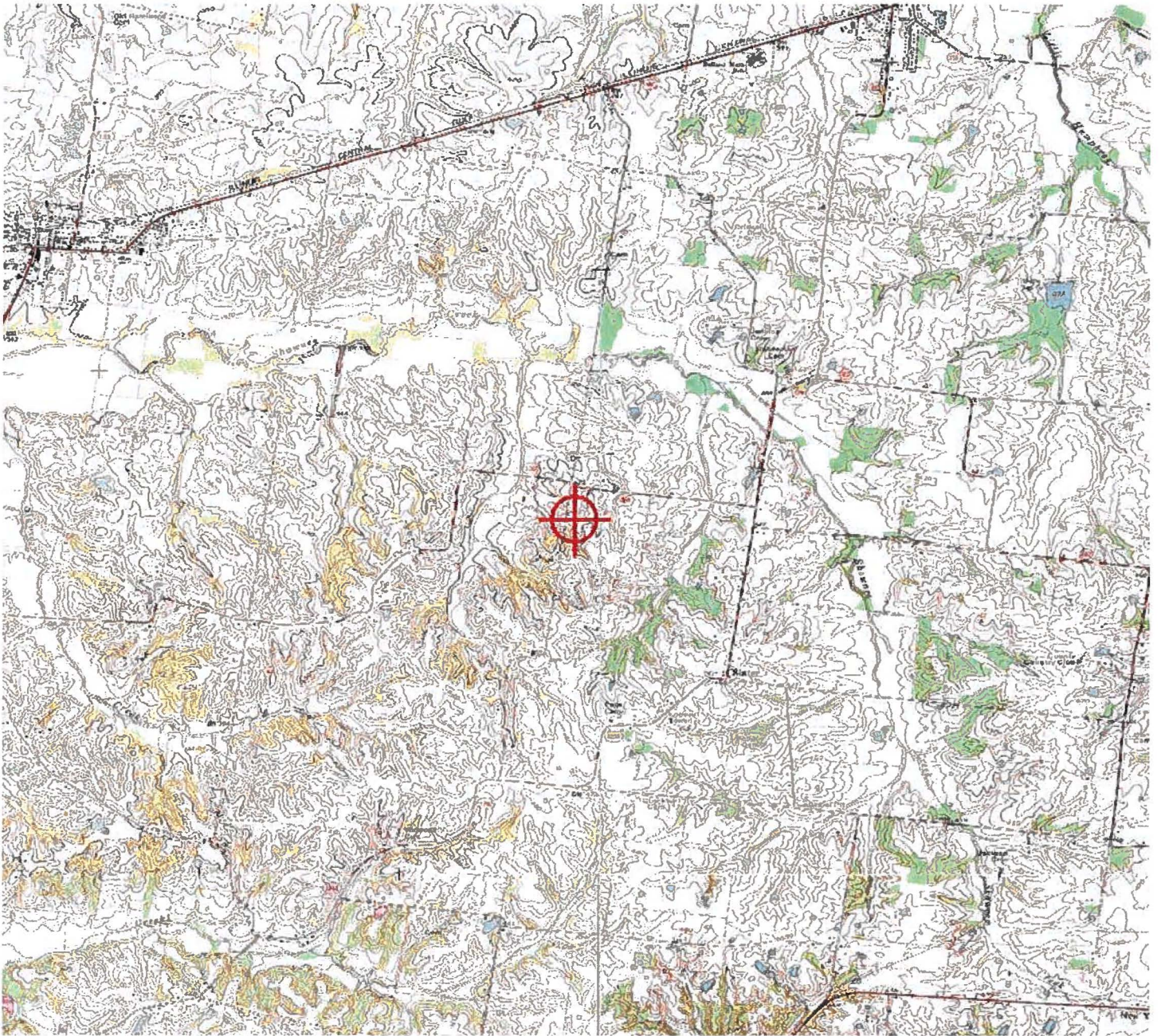
Attachment(s)  
Frequency Data  
Map(s)

cc: FCC

**Frequency Data for ASN 2019-ASO-26576-OE**

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	2000	W
614	698	MHz	1000	W
698	806	MHz	1000	W
806	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	1990	MHz	1640	W
1850	1910	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
27500	28350	MHz	75	dBm
29100	29250	MHz	75	dBm
31000	31225	MHz	75	dBm
31225	31300	MHz	75	dBm
38600	40000	MHz	75	dBm





**EXHIBIT F**  
**KENTUCKY AIRPORT ZONING COMMISSION**



## KENTUCKY AIRPORT ZONING COMMISSION

MATTHEW BEVIN  
Governor

421 Buttermilk Pike  
Covington, KY 41017  
www.transportation.ky.gov  
859-341-2700

October 24, 2019

### APPROVAL OF APPLICATION

#### APPLICANT:

Verizon Wireless (2)  
Verizon Wireless Tennessee  
5055 North Point Pkwy, NP2NE  
Alpharetta, GA 30022

SUBJECT: AS-004-PAH-2019-107

STRUCTURE: Antenna Tower  
LOCATION: Wickliffe, KY  
COORDINATES: 37° 1' 45.61" N / 89° 00' 7.63" W  
HEIGHT: 299' AGL/742' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 299' AGL/ 742' AMSL Antenna Tower near Wickliffe, KY 37° 1' 45.61" N / 89° 00' 7.63" W.

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

Medium Dual Obstruction Lighting is required in accordance with 602 KAR 50:100.

A handwritten signature in cursive script that reads "John Houlihan".

John Houlihan  
Administrator



An Equal Opportunity Employer M/F/D

**EXHIBIT G**  
**GEOTECHNICAL REPORT**

**GEOTECHNICAL REPORT**

**EV BARLOW SE**

**37° 01' 45.61" N**

**89° 00' 07.63" W**

Wayside Inn Rd,  
Wickliffe, KY 42087

Prepared For:



Prepared By:







February 28, 2020

Mr. Mike Rerecich  
Verizon Wireless  
2421 Holloway Road  
Louisville, KY 40299

Re: Geotechnical Report – **PROPOSED 290' SELF-SUPPORT TOWER w/ 5' LIGHTNING ARRESTOR**  
Site Name: **EV BARLOW SE SE**  
Site Address: Wayside Inn Rd, Wickliffe, Ballard County, Kentucky  
Coordinates: N37° 01' 45.61", W89° 00' 07.63"  
POD Project No. 19-42119

Dear Mr. Rerecich:

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

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

Cordially,

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

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



Copies submitted: (3) Mr. Mike Rerecich

**LETTER OF TRANSMITTAL**

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- BORING LOCATION PLAN
- BORING LOGS
- SOIL SAMPLE CLASSIFICATION

Geotechnical Report  
**PROPOSED 290' SELF-SUPPORT TOWER w/ 5' LIGHTNING ARRESTOR**

Site Name: **EV BARLOW SE**  
Wayside Inn Rd, Wickliffe, Ballard County, Kentucky  
N37° 01' 45.61", W89° 00' 07.63"

**1. PURPOSE AND SCOPE**

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

**2. PROJECT CHARACTERISTICS**

Verizon is proposing to construct a self-support tower and either an equipment shelter, slab or platform at N37° 01' 45.61", W89° 00' 07.63", Wayside Inn Rd, Wickliffe, Ballard County, Kentucky. The site is located in a grass covered farm field in a rural area southeast of Barlow. The proposed lease area will be 10,000 square feet and will be accessed by a short access road running north off Wayside Inn Road. The proposed elevation at the tower location is about EL 443 and there is about 5-feet of change in elevation across the proposed lease area. The proposed tower location is shown on the Boring Location Plan in the Appendix.

**3. SUBSURFACE CONDITIONS**

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

According to the Kentucky Geological Survey, Kentucky Geologic Map Information Services, the site is underlain by the Quaternary age Loess silt.

The borings encountered about 6 inches of topsoil at the existing ground surface. Below the topsoil, the borings encountered clayey silt (ML) to the scheduled termination depths of 20 feet in B-2 and B-3 and to about 18.5 feet in B-1. The SPT N-values in the silt were between 3 and 8 blows per foot (bpf) generally indicating a soft to medium stiff consistency. At about 18.5 feet in B-1, silty clay (CL) of low plasticity was encountered with SPT N-values between 15 and 100 bpf generally indicating a stiff to hard consistency that was inflated by a significant amount of rock fragments in many of the samples. A layer of dense, silty fine sand (SP) was encountered between about 33.5 feet and 37 feet

before returning to the silty clay at about 37 feet to the scheduled termination depth of 40 feet.

Groundwater was noted on the drilling equipment in B-1 at about 28 feet and at 24 feet at completion. Groundwater was not encountered in Borings B-2 and B-3. It must be noted, however, that short-term water readings in test borings are not necessarily a reliable indication of the actual groundwater level. Furthermore, it must be emphasized that the groundwater level is not stationary but will fluctuate seasonally.

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

#### **4. FOUNDATION DESIGN RECOMMENDATIONS**

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

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

##### **4.1. Proposed Tower**

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

##### **4.1.1. Drilled Piers**

The following table summarizes the recommended values for use in analyzing lateral and frictional resistance for the various strata encountered at the test boring. It is important to note that these values are estimated based on the

standard penetration test results and soil types and were not directly measured. The all values provided are ultimate values and appropriate factors of safety should be used in conjunction with these values. If the piers will bear deeper than about 40 feet, a deeper boring should be drilled to determine the nature of the deeper material.

Depth Below Ground Surface, feet	0 – 3	3 – 20	20 – 28	28-33	33-37	37 – 40
Ultimate Bearing Pressure (psf)		5,500	13,825	13,825	24,180	13,825
<b>c</b> Undrained Shear Strength, psf	500	1000	2,500	2,500	0	2,500
$\phi$ Angle of Internal Friction degrees	0	0	0	0	32°	0
Total Unit Weight, pcf	110	120	120	130	120	130
Soil Modulus Parameter k, pci	30	500	750	750	90	750
Passive Soil Pressure, psf/one foot of depth		675 + 40(D-3)	1,675 + 40(D-20)	1,675 + 43(D-28)	52024 (D <sup>2</sup> )	1,675 + 43(D-37)
Side Friction, psf	100	300	750	750	1000	750

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

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

**4.1.2. Mat Foundation**

The tower could be supported on a common mat foundation bearing on the silty soils at least 3 feet in depth can be designed using a net allowable bearing pressure of 2,000 pounds per square foot may be used. This value may be increased by 30 percent for the maximum edge pressure under transient loads. The friction value can be increased to 0.30 between the concrete and silty soils. The passive pressures given for the drilled pier foundation may be used to resist lateral forces.

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

#### **4.2. Equipment Platform**

An equipment platform may be supported on shallow piers bearing in the natural clay and designed for a net allowable soil pressure of 1,500 pounds per square foot. The piers should bear at a depth of at least 24 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

#### **4.3. Equipment Slab**

A concrete slab supporting the equipment must be supported on at least 6-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 6 in. of granular material is placed below the slab, a modulus of subgrade reaction (k) of 85 lbs/cu.in. can be used for design of the slab. All existing topsoil or soft natural soil should be removed beneath crushed stone layer.

#### **4.4. Equipment Building**

If an equipment building support on a slab is chosen in place of the equipment platform, it may be supported on shallow spread footings bearing in the silty soil and designed for a net allowable soil pressure of 1,500 pounds per square foot.

The footings should be at least ten inches wide. If the footings bear on soil, they should bear at a depth of at least 24 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

Floor slabs must be supported on at least 4-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 4 in. of granular material is placed below the slab, a modulus of subgrade reaction (k) of 85 lbs/cu.in. can be used for design of the floor slabs.

#### **4.5. Drainage and Groundwater Considerations**

Good site drainage must be provided. Surface run-off water should be drained away from the tower and platform and not allowed to pond.

At the time of this investigation, groundwater was encountered has high as 24 feet. Any seepage should be able to be pumped with sumps. It is important that all foundation concrete be placed the same day the excavation is made.

### **5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS**

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

#### **5.1 Drilled Piers**

The following recommendations are recommended for drilled pier construction:

- ❖ Clean the foundation bearing area so it is nearly level or suitably benched and is free of ponded water or loose material.
- ❖ Make provisions for ground water removal from the drilled shaft excavation. Groundwater was encountered has high has 24 feet during the soil drilling and some significant seepage may be encountered. The drilled pier contractor should have pumps on hand to remove water from the drilled pier.
- ❖ Specify concrete slumps ranging from 4 to 7 inches for the drilled shaft construction. These slumps are recommended to fill irregularities along the sides and bottom of the drilled hole, displace water as it is placed, and permit placement of reinforcing cages into the fluid concrete.
- ❖ Retain the geotechnical engineer to observe foundation excavations after the bottom of the hole is leveled, cleaned of any mud or extraneous material, and dewatered.
- ❖ Install a temporary protective steel casing to prevent side wall collapse, prevent excessive mud and water intrusion in the drilled shaft.
- ❖ The protective steel casing may be extracted as the concrete is placed provided a sufficient head of concrete is maintained inside the steel casing to prevent soil or water intrusion into the newly

placed concrete.

- Direct the concrete placement into the drilled hole through a centering chute to reduce side flow or segregation.

## **5.2 Fill Compaction**

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

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

## **5.3 Construction Dewatering**

At the time of this investigation, groundwater was encountered at about 24 feet. Any seepage should be able to be pumped with sumps.

If groundwater is encountered in the drilled pier excavations, it may be difficult to dewater since pumping directly from the excavations could cause a deterioration of the bottom of the excavation. If the pier excavations are not dewatered, concrete should be placed by the termie method.

## **6 FIELD INVESTIGATION**

Three soil test borings were drilled near the base of the proposed tower. Split-spoon samples were obtained by the Standard Penetration Test (SPT) procedure (ASTM D1586) in all test borings. The borings were terminated at the scheduled depths of 20 and 40 feet. The split-spoon samples were inspected and visually classified by a geotechnical engineer. Representative portions of the soil samples were sealed in glass jars and returned to our laboratory. Pocket Penetrometer tests, moisture contents and Atterberg limits were performed and noted on the boring logs.



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

## **7 WARRANTY AND LIMITATIONS OF STUDY**

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

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

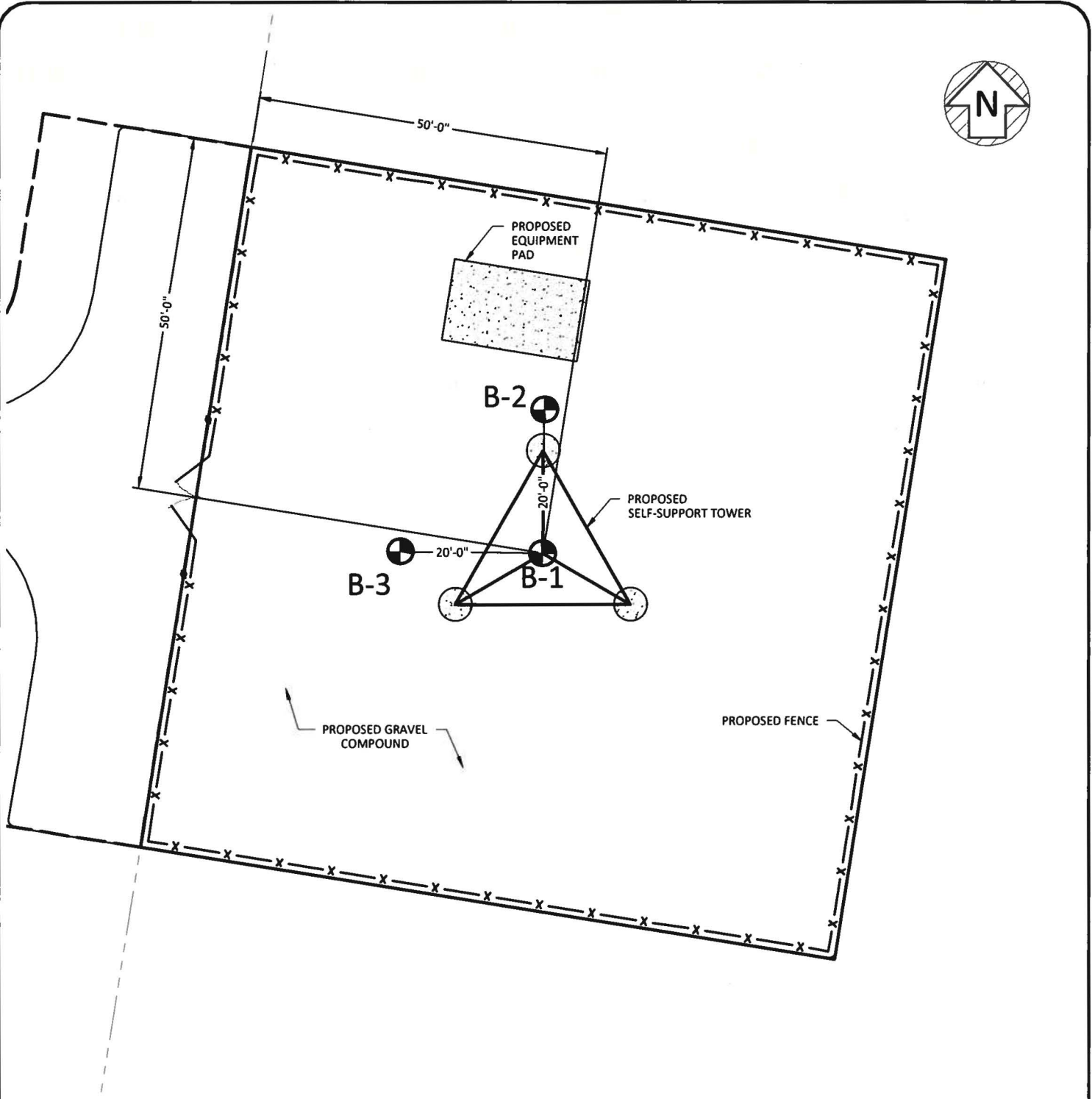
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions and to check that the soils connected construction phases are properly completed. If significant variations or changes are in evidence, it may then be necessary to reevaluate the recommendations of this report. Furthermore, if the project characteristics are altered significantly from those discussed in this report, if the project information contained in this report is incorrect, or if additional information becomes available, a review must be made by this office to determine if any modification in the recommendations will be required.

## **APPENDIX**

**BORING LOCATION PLAN**

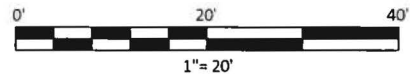
**BORING LOGS**



**SOIL SAMPLE CLASSIFICATION**



**LEGEND**

 **B-1** BORING LOCATION



<b>SHEET TITLE:</b> <b>BORING LOCATION PLAN</b>	<b>LATITUDE:</b> 37° 01' 45.61" N <b>LONGITUDE:</b> 89° 00' 07.63" W	<b>SITE INFORMATION:</b> <b>EV BARLOW SE</b>	 11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 502-437-5252
	<b>TAX PARCEL NUMBER:</b> 37-17-03 DEED BOOK 77, PAGE 464	WAYSIDE INN RD WICKLIFFE, KY 42087 BALLARD COUNTY	
<b>SHEET NUMBER:</b> <span style="font-size: 2em; font-weight: bold;">1</span>	<b>POD NUMBER:</b> 19-42119  <b>DRAWN BY:</b> POD <b>CHECKED BY:</b> MEP <b>DATE:</b> 2.13.20	<b>OWNER INFORMATION:</b> LOREA & KENNY TURNER 5874 HINKLEVILLE RD LACENTER, KY 42056	KENTUCKY RSA 1 PSHIP 09 A  <small>3421 HOLLOWAY ROAD LOUISVILLE, KY 40299</small>



# Boring Log

Boring: B-1

Page 1 of 1

**Project:** EV Barlow SE

**City, State**

Wickliffe, KY

**Method:** H.S.A.

**Boring Date:** 18-Feb-20

**Location:** Proposed Tower

**Inside Diameter:** 2 1/4"

**Drill Rig Type:** 66 DT

**Hammer Type:** Auto

**Groundwater:** Groundwater noted at 28' on rods and 24' at completion

**Weather:**

**Driller:** Commonwealth Drilling Co

**Note:** About 6 inches of topsoil was encountered at the ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength (ksf)
0.5	18.5	CLAYEY SILT (ML) - soft, moist, brown  - medium stiff  - very moist	1-2.5	SS	1, 1, 2	18	3,			28%		0.0
	3.5		3.5-5	SS	3, 3, 4	6	7,			28%		3.3
			6-7.5	SS	3, 3, 3	16	6,			27%		1.3
	8.5		8.5-10	SS	2, 3, 3	16	6,			27%		0.5
			13.5-15	SS	3, 3, 5	12	8,			23%		0.5
18.5	33.5		SILTY CLAY (CL) - very stiff, reddish brown with rock, chert and gravel fragments  - hard, moist with gravel, sand and chert	18.5-20	SS	5, 7, 10	10	17,			18%	
	23.5	23.5-25		SS	28, 50, 50	12	100,			12%		
		28.5-30		SS	26, 49, 50	13	99,			13%		
33.5	37.0	SILTY fine SAND (SP) - dense, light orange		33.5-35	SS	18, 24, 31	13	55,			19%	
37.0	40.0	SILTY CLAY (CL) - stiff, very light gray and orange brown	38.5-40	SS	4, 7, 8	9	15,			24%		

**Boring Terminated at 40 feet**



# Boring Log

Boring: B-2

Page 1 of 1

**Project:** EV Barlow SE

**City, State**

Wickliffe, KY

**Method:** H.S.A.

**Boring Date:** 18-Feb-20

**Location:** Proposed Tower

**Inside Diameter:** 2 1/4"

**Drill Rig Type:** 66 DT

**Hammer Type:** Auto

**Groundwater:** DRY

**Weather:**

**Driller:** Commonwealth Drilling Co

**Note:** About 6 inches of topsoil was encountered at the ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.5	20.0	CLAYEY SILT (ML) - soft, moist, brown										
	3.5	- medium stiff, brown-gray	1-2.5	SS	0, 1, 3	13	4,			27%		1.0
	6.0	- light brown	3.5-5	SS	2, 3, 3	14	6,			24%		2.0
	8.5	- soft, very moist	6-7.5	SS	3, 3, 4	18	7,			25%		1.0
	13.5	- medium stiff	8.5-10	SS	2, 2, 2	15	4,			26%		0.5
	17.0	- red with rock and chert fragments	13.5-15	SS	2, 3, 5	16	8,			23%		1.0
			18.5-20	SS	7, 12, 17	12	29,			14%		2.0
		<b>Boring Terminated at 20 feet</b>										



# Boring Log

Boring: B-3

Page 1 of 1

**Project:** EV Barlow SE

**City, State**

Wickliffe, KY

**Method:** H.S.A.

**Boring Date:** 18-Feb-20

**Location:** Proposed Tower

**Inside Diameter:** 2 1/4"

**Drill Rig Type:** 66 DT

**Hammer Type:** Auto

**Groundwater:** DRY

**Weather:**

**Driller:** Commonwealth Drilling Co

**Note:** About 6 inches of topsoil was encountered at the ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.5	20.0	CLAYEY SILT (ML) - soft, slightly moist, brown	1-2.5	SS	1, 2, 2	12	4,			27%		1.0
	3.5	- medium stiff, brown-gray	3.5-5	SS	3, 3, 5	18	8,			25%		1.4
	6.0	- moist	6-7.5	SS	2, 3, 5	14	8,			26%		1.0
			8.5-10	SS	2, 3, 4	13	7,			25%		0.5
	13.5	- reddish brown	13.5-15	SS	3, 3, 4	15	7,			22%		0.5
	17.0	- very stiff with rock and chert fragments	18.5-20	SS	6, 8, 12	16	20,			13%		4.5
		<b>Boring Terminated at 20 feet</b>										

**SOIL SAMPLE CLASSIFICATION**

**FINE AND COARSE GRAINED SOIL INFORMATION**

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

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

**ROCK PROPERTIES**

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

Recovery =	$\frac{\text{Length of Rock Core Recovered}}{\text{Length of Core Run}} \times 100$	63 REC	BQ	1-7/16
		NQ	NQ	1-7/8
		43 RQD	HQ	2-1/2
RQD =	$\frac{\text{Sum of 4 in. and longer Rock Pieces Recovered}}{\text{Length of Core Run}} \times 100$			

**SYMBOLS**

**KEY TO MATERIAL TYPES**

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

ROCKS	
Symbols	Typical Names
	Limestone or Dolomite
	Shale
	Sandstone

SOIL PROPERTY SYMBOLS	
N:	Standard Penetration, BPF
M:	Moisture Content, %
LL:	Liquid Limit, %
PI:	Plasticity Index, %
Qp:	Pocket Penetrometer Value, TSF
Qu:	Unconfined Compressive Strength Estimated Qu, TSF
$\gamma$	Dry Unit Weight, PCF
$\gamma_D$ :	
F:	Fines Content

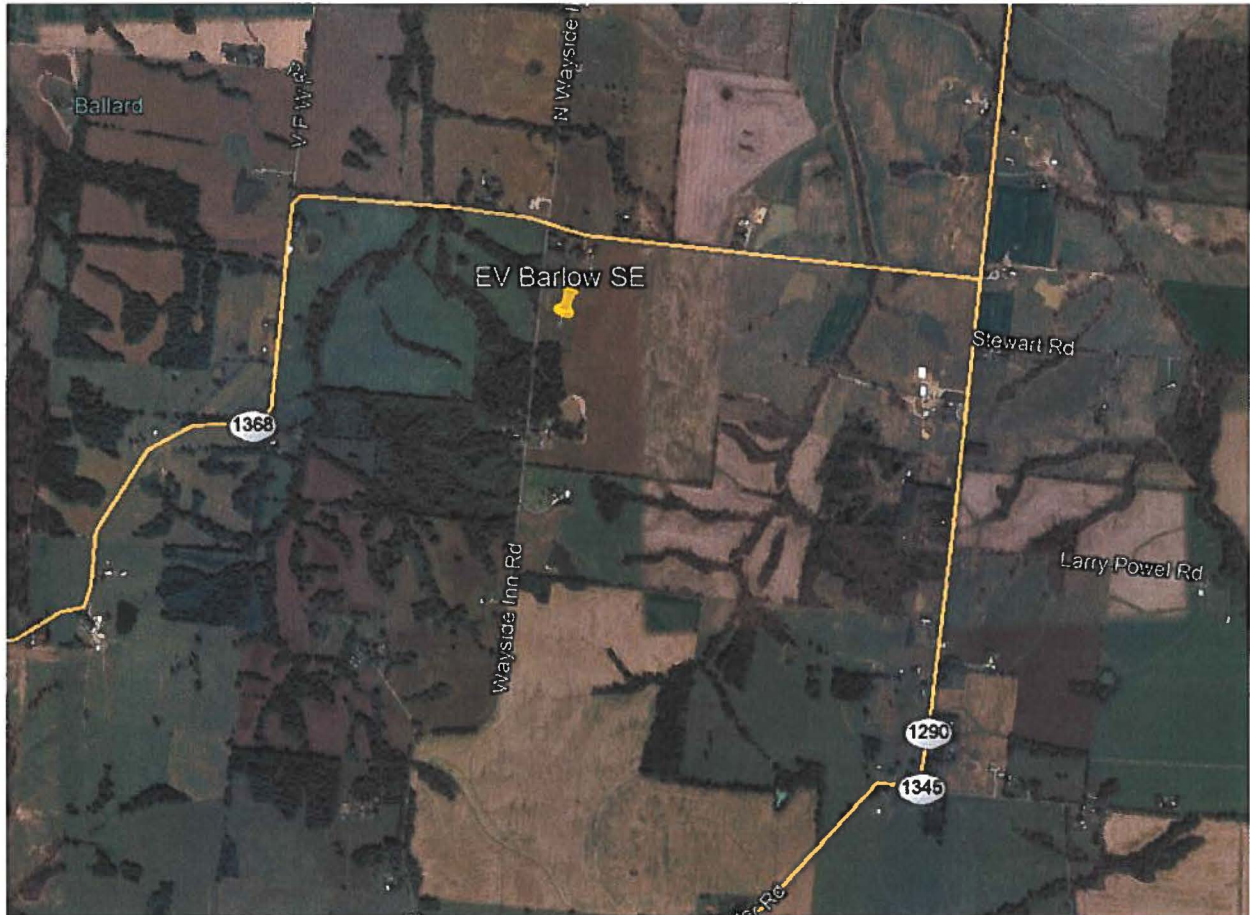
SAMPLING SYMBOLS	
SS	Split Spoon Sample
	Relatively Undisturbed Sample
	Rock Core Sample

**EXHIBIT H  
DIRECTIONS TO WCF SITE**



### **Driving Directions to Proposed Tower Site**

1. Beginning at the Ballard County Clerk's Office, located at 132 4th Street, Wickliffe, KY 42087 head south on 4th Street toward Court Street and travel 197 feet.
2. Turn left at the 1st cross street onto Court Street and travel approximately 0.4 miles.
3. Turn left onto KY-286 / Phillips Drive and travel approximately 1.2 miles.
4. Turn left onto Buck Road and travel approximately 0.4 miles.
5. Turn right onto KY-1290 and travel approximately 4.0 miles.
6. Turn left onto South Wayside Inn Road and travel approximately 1.6 miles.
7. The site will be on the right at Wayside Inn Road, Wickliffe, KY 42087.
8. The site coordinates are
  - a. North  $37^{\circ} 01' 45.61''$
  - b. West  $89^{\circ} 00' 07.63''$



Prepared by:  
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Pike Legal Group PLLC  
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P.O. Box 369  
Shepherdsville, KY 40165-3069  
Telephone: 502-955-4400 or 800-516-4293

**EXHIBIT I**  
**COPY OF REAL ESTATE AGREEMENT**

SITE NAME: EV Barlow SE  
SITE NUMBER: 415667  
ATTY/DATE

### LAND LEASE AGREEMENT

This Land Lease Agreement (the "Agreement") made this 13 day of January 2019, 20 between Kenny Turner and Lorea Turner, Husband and Wife, and both residents of the State of Kentucky with a mailing address of 3819 Tabor Rd., Barlow, Kentucky 42024, hereinafter collectively designated LESSOR and Celco Partnership d/b/a Verizon Wireless with its principal offices at One Verizon Way, Mail Stop 4AW100, Basking Ridge, New Jersey 07920 (telephone number 866-862-4404), hereinafter designated LESSEE. LESSOR and LESSEE are at times collectively referred to hereinafter as the "Parties" or individually as the "Party."

### WITNESSETH

In consideration of the mutual covenants contained herein and intending to be legally bound hereby, the Parties hereto agree as follows:

1. **GRANT.** In accordance with this Agreement, LESSOR hereby grants to LESSEE the right to install, maintain and operate a telecommunications tower, facility, and equipment ("Use") upon the Premises (as hereinafter defined), which are a part of that real property owned, leased or controlled by LESSOR at 0 Wayside Inn Rd., Wickliffe, Kentucky 42087 (the "Property"). The Property is legally described on Exhibit "A" attached hereto and made a part hereof. The Premises are a portion of the Property including a portion of the parcel of land space (the "Land Space") consisting of approximately 100' x 100', or 10,000 square feet of land, as shown in detail on Exhibit "B" attached hereto and made a part hereof. LESSOR hereby grants permission to LESSEE to install, maintain and operate the telecommunications tower, facility, and equipment, antennas and appurtenances described in Exhibit "B" attached hereto. LESSEE reserves the right to replace the aforementioned equipment with similar and comparable equipment. In addition, LESSOR hereby grants to LESSEE a non-exclusive right (the "Easements") over the Property for access, ingress and egress, seven (7) days a week twenty-four (24) hours a day, on foot or motor vehicle, including trucks over or along a thirty foot (30') wide right-of-way extending from the nearest public right-of-way, Wayside Inn Rd., to the Land Space, and for the installation and maintenance of utility wires, poles, cables, conduits, fiber, and pipes over, under, or along one or more rights of way from the Land Space, said Land Space and Rights of Way (hereinafter collectively referred to as the "Premises") being substantially as described herein in Exhibit "B" attached hereto and made a part hereof. The Property is also shown on the Tax Map of the City of Wickliffe as Tax Map ID Number 37-17-03 and is further described in a certain Warranty Deed dated November 9, 2005, and recorded on November 10, 2005, and recorded in the Office of the Ballard County Recorder in Deed Book 77, Page 464.

In the event any public utility is unable to use the Easements, the LESSOR hereby agrees to grant an additional right-of-way either to the LESSEE or to the public utility at no cost to the LESSEE.

LESSEE may survey the Premises and said survey shall then become Exhibit "C" which shall be attached hereto and made a part hereof, and shall control in the event of boundary and access discrepancies between it and Exhibit "B". Cost for such work shall be borne by the LESSEE.

2. **INITIAL TERM.** This Agreement shall be effective as of the date of execution by both Parties ("Effective Date"). The initial term of the Agreement shall be for five (5) years beginning on the first (1<sup>st</sup>) day of the month following the Commencement Date (as hereinafter defined). The

"Commencement Date" shall be the first (1<sup>st</sup>) day of the month after LESSEE begins installation of LESSEE's communications equipment once the construction of the new tower has been completed. LESSOR and LESSEE agree that they shall acknowledge, in writing, the Commencement Date once construction of the telecommunications facility has commenced.

3. **EXTENSIONS.** This Agreement shall automatically be extended for 4 additional five (5) year terms unless LESSEE terminates it at the end of the then current term by giving LESSOR written notice of the intent to terminate at least three (3) months prior to the end of the then current term. The initial term and all extensions shall be collectively referred to herein as the "Term".

4. **RENTAL.**

(a). Rental payments shall begin on the Commencement Date and be due at a total annual rental of [REDACTED] to be paid in equal monthly installments of [REDACTED] on the first (1<sup>st</sup>) day of the month, in advance, to LESSOR at 3819 Tabor Rd., Barlow, Kentucky 42024 or to such other person, firm, or place as LESSOR may, from time to time, designate in writing at least 30 days in advance of any rental payment date by notice given in accordance with Paragraph 20 below. LESSOR and LESSEE acknowledge and agree that the initial rental payment shall not be delivered by LESSEE until 60 days after the Commencement Date. Upon agreement of the Parties, LESSEE may pay rent by electronic funds transfer and in such event, LESSOR agrees to provide to LESSEE bank routing information for such purpose upon request of LESSEE.

(b). For any party to whom rental payments are to be made, LESSOR or any successor in interest of LESSOR hereby agrees to provide to LESSEE (i) a completed, current version of Internal Revenue Service Form W-9, or equivalent; (ii) complete and fully executed state and local withholding forms if required; and (iii) other documentation to verify LESSOR's or such other party's right to receive rental as is reasonably requested by LESSEE. Rental shall accrue in accordance with this Agreement, but LESSEE shall have no obligation to deliver rental payments until the requested documentation has been received by LESSEE. Upon receipt of the requested documentation, LESSEE shall deliver the accrued rental payments as directed by LESSOR.

(c). The annual rental for the first (1st) five (5) year extension term shall be increased to [REDACTED] the annual rental for the second (2nd) five (5) year extension term shall be increased to [REDACTED]; the annual rental for the third (3rd) five (5) year extension term shall be increased to [REDACTED] and the annual rental for the fourth (4th) five (5) year extension term shall be increased to [REDACTED]

(d). **ADDITIONAL EXTENSIONS.** If at the end of the fourth (4th) five (5) year extension term this Agreement has not been terminated by either Party by giving to the other written notice of an intention to terminate it at least three (3) months prior to the end of such term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of five (5) years and for five (5) year terms thereafter until terminated by either Party by giving to the other written notice of its intention to so terminate at least three (3) months prior to the end of such term. Annual rental for each such additional five (5) year term shall be equal to the annual rental payable

with respect to the immediately preceding five (5) year term. The initial term and all extensions shall be collectively referred to herein as the "Term".

5. **ACCESS.** LESSEE shall have the non-exclusive right of ingress and egress from a public right-of-way, 7 days a week, 24 hours a day, over the Property to and from the Premises for the purpose of installation, operation and maintenance of LESSEE's communications equipment over or along a thirty foot (30') right-of-way ("Easement"), which shall be depicted on Exhibit "B". LESSEE may use the Easement for the installation, operation and maintenance of wires, cables, conduits and pipes for all necessary electrical, telephone, fiber and other similar support services. In the event it is necessary, LESSOR agrees to grant LESSEE or the provider the right to install such services on, through, over and/or under the Property, provided the location of such services shall be reasonably approved by LESSOR. Notwithstanding anything to the contrary, the Premises shall include such additional space sufficient for LESSEE's radio frequency signage and/or barricades as are necessary to ensure LESSEE's compliance with Laws (as defined in Paragraph 27).

6. **CONDITION OF PROPERTY.** LESSOR shall deliver the Premises to LESSEE in a condition ready for LESSEE's Use and clean and free of debris. LESSOR represents and warrants to LESSEE that as of the Effective Date, the Premises (a) in compliance with all Laws; and (b) in compliance with all EH&S Laws (as defined in Paragraph 24).

7. **IMPROVEMENTS.** The communications equipment including, without limitation, the tower, equipment shelters/platforms, antenna mounts, antennas, conduits, and other improvements shall be at LESSEE's expense and installation shall be at the discretion and option of LESSEE. LESSEE shall have the right to replace, repair, add or otherwise modify its communications equipment, antennas, conduits, fencing and other screening, or other improvements or any portion thereof and the frequencies over which the communications equipment operates, whether or not any of the communications equipment, antennas, conduits or other improvements are listed on any exhibit.

8. **GOVERNMENT APPROVALS.** LESSEE's Use is contingent upon LESSEE obtaining all of the certificates, permits and other approvals (collectively the "Government Approvals") that may be required by any Federal, State or Local authorities (collectively, the "Government Entities") as well as a satisfactory soil boring test, environmental studies, or any other due diligence LESSEE chooses that will permit LESSEE's Use. LESSOR shall cooperate with LESSEE in its effort to obtain such approvals and shall take no action which would adversely affect the status of the Property with respect to LESSEE's Use.

9. **TERMINATION.** LESSEE may, unless otherwise stated, immediately terminate this Agreement upon written notice to LESSOR in the event that (i) any applications for such Government Approvals should be finally rejected; (ii) any Government Approval issued to LESSEE is canceled, expires, lapses or is otherwise withdrawn or terminated by any Government Entity; (iii) LESSEE determines that such Government Approvals may not be obtained in a timely manner; (iv) LESSEE determines any structural analysis is unsatisfactory; (v) LESSEE, in its sole discretion, determines the Use of the Premises is obsolete or unnecessary; (vi) with 3 months prior notice to LESSOR, upon the annual anniversary of the Commencement Date; or (vii) at any time before the Commencement Date for any reason or no reason in LESSEE's sole discretion.

10. **INDEMNIFICATION.** Subject to Paragraph 12, each Party shall indemnify and hold the other harmless against any claim of liability or loss from personal injury or property damage resulting from or arising out of the negligence or willful misconduct of the indemnified Party, its employees, contractors or agents, except to the extent such claims or damages may be due to or caused by the negligence or willful misconduct of the other Party, or its employees, contractors or agents. The indemnified Party will provide the indemnifying Party with prompt, written notice of any claim covered by this indemnification; provided that any failure of the indemnified Party to provide any such notice, or to provide it promptly, shall not relieve the indemnifying Party from its indemnification obligation in respect of such claim, except to the extent the indemnifying Party can establish actual prejudice and direct damages as a result thereof. The indemnified Party will cooperate appropriately with the indemnifying Party in connection with the indemnifying Party's defense of such claim. The indemnifying Party shall defend any indemnified Party, at the indemnified Party's request, against any claim with counsel reasonably satisfactory to the indemnified Party. The indemnifying Party shall not settle or compromise any such claim or consent to the entry of any judgment without the prior written consent of each indemnified Party and without an unconditional release of all claims by each claimant or plaintiff in favor of each indemnified Party.

11. **INSURANCE.** The Parties agree that at their own cost and expense, each will maintain commercial general liability insurance with limits not less than [REDACTED] for injury to or death of one or more persons in any one occurrence and [REDACTED] for damage or destruction in any one occurrence. The Parties agree to include the other Party as an additional insured. The Parties hereby waive and release any and all rights of action for negligence against the other which may hereafter arise on account of damage to the Premises or the Property, resulting from any fire, or other casualty which is insurable under "Causes of Loss – Special Form" property damage insurance or for the kind covered by standard fire insurance policies with extended coverage, regardless of whether or not, or in what amounts, such insurance is now or hereafter carried by the Parties, even if any such fire or other casualty shall have been caused by the fault or negligence of the other Party. These waivers and releases shall apply between the Parties and they shall also apply to any claims under or through either Party as a result of any asserted right of subrogation. All such policies of insurance obtained by either Party concerning the Premises or the Property shall waive the insurer's right of subrogation against the other Party.

12. **LIMITATION OF LIABILITY.** Except for indemnification pursuant to Paragraphs 10 and 24, a violation of Paragraph 30, or a violation of law, neither Party shall be liable to the other, or any of their respective agents, representatives, or employees for any lost revenue, lost profits, loss of technology, rights or services, incidental, punitive, indirect, special or consequential damages, loss of data, or interruption or loss of use of service, even if advised of the possibility of such damages, whether under theory of contract, tort (including negligence), strict liability or otherwise.

13. **INTERFERENCE.**

(a). LESSOR agrees that LESSOR and other occupants of the Property will not cause interference to LESSEE's equipment (that is measurable in accordance with industry standards to the then existing equipment of LESSEE).

(b). Without limiting any other rights or remedies, if interference occurs and continues for a period in excess of 48 hours following notice to the interfering party via telephone to

LESSEE'S Network Operations Center (at (800) 224-6620/(800) 621-2622) or to LESSOR at (270) 836-7061, the interfering party shall or shall require any other user to reduce power or cease operations of the interfering equipment until the interference is cured.

(c). The Parties acknowledge that there will not be an adequate remedy at law for noncompliance with the provisions of this Paragraph and therefore the Parties shall have the right to equitable remedies such as, without limitation, injunctive relief and specific performance.

14. **REMOVAL AT END OF TERM.** Upon expiration or within ninety (90) days of earlier termination, LESSEE shall remove LESSEE's Communications Equipment (except footings) and restore the Premises to its original condition, reasonable wear and tear and casualty damage excepted. LESSOR agrees and acknowledges that the communications equipment shall remain the personal property of LESSEE and LESSEE shall have the right to remove the same at any time during the Term, whether or not said items are considered fixtures and attachments to real property under applicable laws. If such time for removal causes LESSEE to remain on the Premises after termination of the Agreement, LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

15. **HOLDOVER.** If upon expiration of the Term the Parties are negotiating a new lease or a lease extension, then this Agreement shall continue during such negotiations on a month to month basis at the rental in effect as of the date of the expiration of the Term. In the event that the Parties are not in the process of negotiating a new lease or lease extension and LESSEE holds over after the expiration or earlier termination of the Term, then LESSEE shall pay rent at the then existing monthly rate or on the existing monthly pro-rata basis if based upon a longer payment term, until the removal of the communications equipment is completed.

16. **RIGHT OF FIRST REFUSAL.** If at any time after the Effective Date, LESSOR receives an offer or letter of intent from any person or entity that is in the business of owning, managing or operating communications facilities or is in the business of acquiring landlord interests in agreements relating to communications facilities, to purchase fee title, an easement, a lease, a license, or any other interest in the Premises or any portion thereof or to acquire any interest in this Agreement, or an option for any of the foregoing, LESSOR shall provide written notice to LESSEE of said offer ("LESSOR's Notice"). LESSOR's Notice shall include the prospective buyer's name, the purchase price being offered, any other consideration being offered, the other terms and conditions of the offer, a description of the portion of and interest in the Premises and/or this Agreement which will be conveyed in the proposed transaction, and a copy of any letters of intent or form agreements presented to LESSOR by the third party offeror. LESSEE shall have the right of first refusal to meet any bona fide offer of sale or transfer on the terms and conditions of such offer or by effectuating a transaction with substantially equivalent financial terms. If LESSEE fails to provide written notice to LESSOR that LESSEE intends to meet such bona fide offer within thirty (30) days after receipt of LESSOR's Notice, LESSOR may proceed with the proposed transaction in accordance with the terms and conditions of such third party offer, in which event this Agreement shall continue in full force and effect and the right of first refusal described in this Paragraph shall survive any such conveyance to a third party. If LESSEE provides LESSOR with notice of LESSEE's intention to meet the third party offer within thirty (30) days after receipt of LESSOR's Notice, then if LESSOR's Notice describes a transaction involving greater space than the Premises, LESSEE

may elect to proceed with a transaction covering only the Premises and the purchase price shall be pro-rated on a square footage basis. Further, LESSOR acknowledges and agrees that if LESSEE exercises this right of first refusal, LESSEE may require a reasonable period of time to conduct due diligence and effectuate the closing of a transaction on substantially equivalent financial terms of the third party offer. For purposes of this Paragraph, any transfer, bequest or devise of LESSOR's interest in the Property as a result of the death of LESSOR, whether by will or intestate succession, or any conveyance to LESSOR's family members by direct conveyance or by conveyance to a trust for the benefit of family members shall not be considered a sale for which LESSEE has any right of first refusal.

17. **RIGHTS UPON SALE.** Should LESSOR, at any time during the Term, decide (i) to sell or otherwise transfer all or any part of the Property, or (ii) to grant to a third party by easement or other legal instrument an interest in and to any portion of the Premises, such sale, transfer, or grant of an easement or interest therein shall be under and subject to this Agreement and any such purchaser or transferee shall recognize LESSEE's rights hereunder. In the event that LESSOR completes any such sale, transfer, or grant described in this Paragraph without executing an assignment of the Agreement whereby the third party agrees in writing to assume all obligations of LESSOR under this Agreement, then LESSOR shall not be released from its obligations to LESSEE under this Agreement, and LESSEE shall have the right to look to LESSOR and the third party for the full performance of the Agreement.

18. **LESSOR'S TITLE.** LESSOR covenants that LESSEE, on paying the rent and performing the covenants herein, shall peaceably and quietly have, hold and enjoy the Premises. LESSOR represents and warrants to LESSEE as of the Effective Date and covenants during the Term that LESSOR has full authority to enter into and execute this Agreement and that there are no liens, judgments, covenants, easements, restrictions or other impediments of title that will adversely affect LESSEE's Use.

19. **ASSIGNMENT.** Without any approval or consent of the other Party, this Agreement may be sold, assigned or transferred by either Party to (i) any entity in which the Party directly or indirectly holds an equity or similar interest; (ii) any entity which directly or indirectly holds an equity or similar interest in the Party; or (iii) any entity directly or indirectly under common control with the Party. LESSEE may assign this Agreement to any entity which acquires all or substantially all of LESSEE's assets in the market defined by the FCC in which the Property is located by reason of a merger, acquisition or other business reorganization without approval or consent of LESSOR. As to other parties, this Agreement may not be sold, assigned or transferred without the written consent of the other Party, which such consent will not be unreasonably withheld, delayed or conditioned. No change of stock ownership, partnership interest or control of LESSEE or transfer upon partnership or corporate dissolution of either Party shall constitute an assignment hereunder. LESSEE may sublet the Premises in LESSEE's sole discretion.

20. **NOTICES.** Except for notices permitted via telephone in accordance with Paragraph 13, all notices hereunder must be in writing and shall be deemed validly given if sent by certified mail, return receipt requested or by commercial courier, provided the courier's regular business is delivery service and provided further that it guarantees delivery to the addressee by the end of the next business day following the courier's receipt from the sender, addressed as follows (or any other address that the Party to be notified may have designated to the sender by like notice):



LESSOR: Kenny Turner and Lorea Turner  
3819 Tabor Rd.  
Barlow, Kentucky 42024

LESSEE: Cellco Partnership  
d/b/a Verizon Wireless  
180 Washington Valley Road  
Bedminster, New Jersey 07921  
Attention: Network Real Estate

Notice shall be effective upon actual receipt or refusal as shown on the receipt obtained pursuant to the foregoing.

21. **SUBORDINATION AND NON-DISTURBANCE.** If applicable and within fifteen (15) days of the Effective Date, LESSOR shall obtain a Non-Disturbance Agreement, as defined below, from its existing mortgagee(s), ground lessors and master lessors, if any, of the Property. At LESSOR's option, this Agreement shall be subordinate to any future master lease, ground lease, mortgage, deed of trust or other security interest (a "Mortgage") by LESSOR which from time to time may encumber all or part of the Property; provided, however, as a condition precedent to LESSEE being required to subordinate its interest in this Agreement to any future Mortgage covering the Property, LESSOR shall obtain for LESSEE's benefit a non-disturbance and attornment agreement for LESSEE's benefit in the form reasonably satisfactory to LESSEE, and containing the terms described below (the "Non-Disturbance Agreement"), and shall recognize LESSEE's rights under this Agreement. The Non-Disturbance Agreement shall include the encumbering party's ("Lender's") agreement that, if Lender or its successor-in-interest or any purchaser of Lender's or its successor's interest (a "Purchaser") acquires an ownership interest in the Property, Lender or such successor-in-interest or Purchaser will honor all of the terms of the Agreement. Such Non-Disturbance Agreement must be binding on all of Lender's participants in the subject loan (if any) and on all successors and assigns of Lender and/or its participants and on all Purchasers. In return for such Non-Disturbance Agreement, LESSEE will execute an agreement for Lender's benefit in which LESSEE (1) confirms that the Agreement is subordinate to the Mortgage or other real property interest in favor of Lender, (2) agrees to attorn to Lender if Lender becomes the owner of the Property and (3) agrees to accept a cure by Lender of any of LESSOR's defaults, provided such cure is completed within the deadline applicable to LESSOR. In the event LESSOR defaults in the payment and/or other performance of any mortgage or other real property interest encumbering the Property, LESSEE, may, at its sole option and without obligation, cure or correct LESSOR's default and upon doing so, LESSEE shall be subrogated to any and all rights, titles, liens and equities of the holders of such mortgage or other real property interest and LESSEE shall be entitled to deduct and setoff against all rents that may otherwise become due under this Agreement the sums paid by LESSEE to cure or correct such defaults.

22. **DEFAULT.** It is a "Default" if (i) either Party fails to comply with this Agreement and does not remedy the failure within thirty (30) days after written notice by the other Party or, if the failure cannot reasonably be remedied in such time, if the failing Party does not commence a remedy within the allotted thirty (30) days and diligently pursue the cure to completion within ninety (90) days after the initial written notice, or (ii) LESSOR fails to comply with this Agreement and the failure substantially interferes with LESSEE's Use, in LESSEE's reasonable discretion, and

LESSOR does not remedy the failure within five (5) days after written notice from LESSEE or, if the failure cannot reasonably be remedied in such time, if LESSOR does not commence a remedy within the allotted five (5) days and diligently pursue the cure to completion within fifteen (15) days after the initial written notice. The cure periods set forth in this Paragraph 22 do not extend the period of time in which either Party has to cure interference pursuant to Paragraph 13 of this Agreement.

23. **REMEDIES.** In the event of a Default, without limiting the non-defaulting Party in the exercise of any right or remedy which the non-defaulting Party may have by reason of such default, the non-defaulting Party may terminate this Agreement and/or pursue any remedy now or hereafter available to the non-defaulting Party under the Laws or judicial decisions of the state in which the Property is located. Further, upon a Default, the non-defaulting Party may at its option (but without obligation to do so), perform the defaulting Party's duty or obligation. The costs and expenses of any such performance by the non-defaulting Party shall be due and payable by the defaulting Party upon invoice therefor. If LESSEE undertakes any such performance on LESSOR's behalf and LESSOR does not pay LESSEE the full undisputed amount within thirty (30) days of its receipt of an invoice setting forth the amount due, LESSEE may offset the full undisputed amount due against all fees due and owing to LESSOR under this Agreement until the full undisputed amount is fully reimbursed to LESSEE.

24. **ENVIRONMENTAL.** LESSEE shall conduct its business in compliance with all applicable laws governing the protection of the environment or employee health and safety ("EH&S Laws"). LESSEE shall indemnify and hold harmless the LESSOR from claims to the extent resulting from LESSEE's violation of any applicable EH&S Laws or to the extent that LESSEE causes a release of any regulated substance to the environment. LESSOR shall indemnify and hold harmless LESSEE from all claims resulting from the violation of any applicable EH&S Laws by LESSOR or its employees, contractors or agents, or a release of any regulated substance to the environment caused by LESSOR, its employees, contractors or agents, except to the extent resulting from the activities of LESSEE. The Parties recognize that LESSEE is only leasing a small portion of LESSOR's property and that LESSEE shall not be responsible for any environmental condition or issue except to the extent resulting from LESSEE's specific activities and responsibilities. In the event that LESSEE encounters any hazardous substances that do not result from its activities, LESSEE may relocate its facilities to avoid such hazardous substances to a mutually agreeable location or, if LESSEE desires to remove at its own cost all or some the hazardous substances or materials (such as soil) containing those hazardous substances, LESSOR agrees to sign any necessary waste manifest associated with the removal, transportation and/or disposal of such substances.

25. **CASUALTY.** If a fire or other casualty damages the Property or the Premises and substantially impairs LESSEE's Use, in LESSEE's reasonable discretion, rent shall abate until LESSEE'S Use is restored. If LESSEE's Use is not restored within forty-five (45) days, LESSEE may terminate this Agreement.

26. **CONDEMNATION.** If a condemnation of any portion of the Property or Premises substantially impairs LESSEE's Use, in LESSEE's reasonable discretion, LESSEE may terminate this Agreement. LESSEE may on its own behalf make a claim in any condemnation proceeding involving the Premises for losses related to LESSEE's communications equipment, relocation costs and, specifically excluding loss of LESSEE's leasehold interest, any other damages LESSEE may incur as a result of any such condemnation.

27. **APPLICABLE LAWS.** During the Term, LESSOR shall maintain the Property in compliance with all applicable laws, EH&S Laws, rules, regulations, ordinances, directives, covenants, easements, consent decrees, zoning and land use regulations, and restrictions of record, permits, building codes, and the requirements of any applicable fire insurance underwriter or rating bureau, now in effect or which may hereafter come into effect (including, without limitation, the Americans with Disabilities Act and laws regulating hazardous substances) (collectively "Laws"). LESSEE shall, in respect to the condition of the Premises and at LESSEE's sole cost and expense, comply with (i) all Laws relating solely to LESSEE's specific and unique nature of use of the Premises; and (ii) all building codes requiring modifications to the Premises due to the improvements being made by LESSEE in the Premises. It shall be LESSOR's obligation to comply with all Laws relating to the Property, without regard to specific use (including, without limitation, modifications required to enable LESSEE to obtain all necessary building permits).

28. **TAXES.**

(a). LESSOR shall invoice and LESSEE shall pay any applicable transaction tax (including sales, use, gross receipts, or excise tax) imposed on the LESSEE and required to be collected by the LESSOR based on any service, rental space, or equipment provided by the LESSOR to the LESSEE. LESSEE shall pay all personal property taxes, fees, assessments, or other taxes and charges imposed by any Government Entity that are imposed on the LESSEE and required to be paid by the LESSEE that are directly attributable to the LESSEE's equipment or LESSEE's use and occupancy of the Premises. Payment shall be made by LESSEE within sixty (60) days after presentation of a receipted bill and/or assessment notice which is the basis for such taxes or charges. LESSOR shall pay all ad valorem, personal property, real estate, sales and use taxes, fees, assessments or other taxes or charges that are attributable to LESSOR's Property or any portion thereof imposed by any Government Entity.

(b). LESSEE shall have the right, at its sole option and at its sole cost and expense, to appeal, challenge or seek modification of any tax assessment or billing for which LESSEE is wholly or partly responsible for payment. LESSOR shall reasonably cooperate with LESSEE at LESSEE's expense in filing, prosecuting and perfecting any appeal or challenge to taxes as set forth in the preceding sentence, including but not limited to, executing any consent, appeal or other similar document. In the event that as a result of any appeal or challenge by LESSEE, there is a reduction, credit or repayment received by the LESSOR for any taxes previously paid by LESSEE, LESSOR agrees to promptly reimburse to LESSEE the amount of said reduction, credit or repayment. In the event that LESSEE does not have the standing rights to pursue a good faith and reasonable dispute of any taxes under this paragraph, LESSOR will pursue such dispute at LESSEE's sole cost and expense upon written request of LESSEE.

29. **ACCESS TO TOWER.** LESSOR agrees the LESSEE shall have free access to the Tower at all times for the purpose of installing and maintaining the said equipment. LESSOR shall furnish LESSEE with necessary means of access for the purpose of ingress and egress to this site and Tower location. It is agreed, however, that only authorized engineers, employees or properly authorized contractors of LESSEE or persons under their direct supervision will be permitted to enter said premises.

30. **NON-DISCLOSURE.** The Parties agree this Agreement and any information exchanged between the Parties regarding the Agreement are confidential. The Parties agree not to provide

copies of this Agreement or any other confidential information to any third party without the prior written consent of the other or as required by law. If a disclosure is required by law, prior to disclosure, the Party shall notify the other Party and cooperate to take lawful steps to resist, narrow, or eliminate the need for that disclosure.

31. **MOST FAVORED LESSEE.** LESSOR represents and warrants that the rent, benefits and terms and conditions granted to LESSEE by LESSOR hereunder are now and shall be, during the Term, no less favorable than the rent, benefits and terms and conditions for substantially the same or similar tenancies or licenses granted by LESSOR to other parties. If at any time during the Term LESSOR shall offer more favorable rent, benefits or terms and conditions for substantially the same or similar tenancies or licenses as those granted hereunder, then LESSOR shall, within thirty (30) days after the effective date of such offering, notify LESSEE of such fact and offer LESSEE the more favorable offering. If LESSEE chooses, the parties shall then enter into an amendment that shall be effective retroactively to the effective date of the more favorable offering, and shall provide the same rent, benefits or terms and conditions to LESSEE. LESSEE shall have the right to decline to accept the offering. LESSOR's compliance with this requirement shall be subject, at LESSEE's option, to independent verification.

32. **MISCELLANEOUS.** This Agreement contains all agreements, promises and understandings between the LESSOR and the LESSEE regarding this transaction, and no oral agreement, promises or understandings shall be binding upon either the LESSOR or the LESSEE in any dispute, controversy or proceeding. This Agreement may not be amended or varied except in a writing signed by all Parties. This Agreement shall extend to and bind the heirs, personal representatives, successors and assigns hereto. The failure of either party to insist upon strict performance of any of the terms or conditions of this Agreement or to exercise any of its rights hereunder shall not waive such rights and such party shall have the right to enforce such rights at any time. The performance of this Agreement shall be governed, interpreted, construed and regulated by the laws of the state in which the Premises is located without reference to its choice of law rules. Except as expressly set forth in this Agreement, nothing in this Agreement shall grant, suggest or imply any authority for one Party to use the name, trademarks, service marks or trade names of the other for any purpose whatsoever. LESSOR agrees to execute a Memorandum of this Agreement, which LESSEE may record with the appropriate recording officer. The provisions of the Agreement relating to indemnification from one Party to the other Party shall survive any termination or expiration of this Agreement.

[Signature page follows. The remainder of this page is intentionally blank.]

IN WITNESS WHEREOF, the Parties hereto have set their hands and affixed their respective seals the day and year first above written.

Connie B. Dawdy

WITNESS

\_\_\_\_\_

Abigail Ball

WITNESS

LESSOR:

Kenny Turner

Kenny Turner

Lorea Turner

Lorea Turner

Date: 08-13-2019

LESSEE:

CELLCO PARTNERSHIP d/b/a Verizon Wireless

By: Ed Maher

Its: **Director - Network Field Engineering**

Date: 1/13/2020

**EXHIBIT "A"**

**DESCRIPTION OF PROPERTY**

A tract of land lying on the South side of Tabor Road, and the East of Wayside Inn Road consisting of 35.27 acres and being designated as Tract 3 on a plat of wavier survey of the Mark Knight, et al, property as recorded in Plat Cabinet 2, Slide 35, in Ballard County Clerk's Office.

Being the same property acquired by KENNY TURNER and LOREA TURNER, her husband, by Deed dated November 9, 2005, of record in Deed Book 77, Page 464, and by Affidavit of Descent of record in Cabinet 1, Drawer 20 Slide 4276B, both in the Office of the Clerk of Ballard County, Kentucky.

**EXHIBIT "B"**

**SITE PLAN OF THE PREMISES AND DESCRIPTION OF TOWER EQUIPMENT**

CELLCO PARTNERSHIP  
D/B/A



2421 HOLLOWAY ROAD  
LOUISVILLE, KY 40299

**NEW 290' SELF SUPPORT TOWER w/5' LIGHTNING ARRESTOR  
TOTAL TOWER HEIGHT 295'**

# EV BARLOW SE

WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY

FROM EVANSVILLE MYSO: 800 RUSSELL ROAD CHANDLER, IN 47610: HEAD WEST ON RUSSELL RD (0.2 MI), TURN RIGHT AT THE 1ST CROSS STREET TO STAY ON RUSSELL RD (0.3 MI), TURN LEFT ONTO GARDNER RD (1.6 MI), TURN LEFT ONTO IN-62 (4.2 MI), TURN RIGHT ONTO THE I-64 S RAMP (0.3 MI), MERGE ONTO I-69 S (0.1 MI), TAKE EXIT 8 TO MERGE ONTO US-41 S TOWARD HENDERSON KY (2.0 MI), MERGE ONTO US-41 S (0.1 MI), KEEP LEFT TO STAY ON US-41 S (2.4 MI), KEEP LEFT TO CONTINUE ON PENNYVILLE PKWY, FOLLOW SIGNS FOR OWENSBORO (2.1 MI), CONTINUE ONTO I-69/PENNYVILLE PKWY (42.6 MI), KEEP RIGHT AT THE FORK TO STAY ON I-69, FOLLOW SIGNS FOR PADUCAH (0.8 MI), TAKE DOT 688 FOR INTERSTATE 24 W TOWARD PADUCAH (0.3 MI), MERGE ONTO I-24 W/I-69 S (13.9 MI), KEEP RIGHT TO CONTINUE ON I-24 W (20.9 MI), TAKE EXIT 4 FOR US-60 TOWARD I-24/WICKLIFFE/PADUCAH (0.2 MI), USE THE LEFT 2 LANES TO TURN LEFT ONTO US-60 W/HENRIEVILLE RD (SIGNS FOR WICKLIFFE) (0.8 MI), TURN LEFT ONTO WAYSIDE INN RD (2.5 MI), SITE WILL BE LOCATED ON LEFT (EAST) SIDE OF ROAD.

**VERIZON WIRELESS SITE**  
EV BARLOW SE  
PROJECT#: 2018180888  
LOCATION CODE: 2905006

**SITE ADDRESS**  
WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY  
EPA1 ADDRESS: TBD

**TOWER OWNER**  
VERIZON WIRELESS  
2421 HOLLOWAY ROAD  
LOUISVILLE, KY 40299  
CONTACT: JENNIFER JACK  
MOBILE: (713) 702-7999  
E-MAIL: JENNIFER.JACK@VERIZONWIRELESS.COM

**PROPERTY OWNER**  
LOREA B. KERRY TURNER  
5824 HENRIEVILLE RD  
LACENTER, KY 42056  
CONTACT: LOREA TURNER  
PHONE: (270) 636-7063  
E-MAIL: LORNTURNER@GMAIL.COM

**POLICE**  
BALLARD COUNTY SHERIFF  
437 OHIO ST  
WICKLIFFE, KY 42087  
PHONE: (270) 535-5562

**FIRE**  
LACENTER FIRE DEPARTMENT  
175 E 4TH ST  
LACENTER, KY 42056  
PHONE: (270) 663-9123

**GENERAL INFORMATION**  
LATITUDE: 37° 03' 45.83" N  
LONGITUDE: 89° 07' 07.83" W  
3283 (NAD83)  
ELEVATION: 443.00' AMSL  
3288 (NAVD83)

**VERIZON WIRELESS LEASE AREA**  
100'-0" X 100'-0"  
(20,000 SF)

- VERIZON WIRELESS SCOPE (VIEW ONLY)**
- INSTALL A NEW 290' SELF SUPPORT TOWER w/5' LIGHTNING ROD (TOTAL 295')
  - INSTALL A NEW TOWER FOUNDATION SYSTEM
  - INSTALL A NEW 5000' FENCED GRAVEL COMPOUND
  - INSTALL A NEW 8' HIGH W-FRAME
  - INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE W-FRAME
  - INSTALL A NEW GRAVEL ACCESS DRIVE
  - REMOVE 48" OF EXISTING FENCE
  - INSTALL 48" OF FENCE TO MATCH EXISTING
  - INSTALL 48" OF CASTLE GATE
  - NO WATER OR CHANGE SERVICES RUN TO SITE
  - INSTALL NEW TOWER & SITE ENCLOSURE SYSTEM
  - INSTALL NEW 400' SURFACE CHANGING SYSTEM
  - INSTALL A NEW 11'-0" X 11'-0" CONCRETE EQUIPMENT PAD
  - INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP WITHIN NEW EQUIPMENT PAD TO UTILITY W-FRAME
  - INSTALL NEW CONDUITS WITH PULL TAPES FROM NEW ILC ENCLOSURE STUB-UPS TO EQUIPMENT ENCLOSURE STUB-UPS WITHIN NEW EQUIPMENT PAD
  - INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO ONP W-FRAME UT FIBER LOCATOR
  - INSTALL (3) NEW "VERIZON WIRELESS ONLY" OVER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM TOWER EXTERIOR TO NEW "VERIZON WIRELESS ONLY" 3" x 3" HARD HOLE OUTSIDE COMPOUND
  - INSTALL (3) NEW "VERIZON WIRELESS ONLY" OVER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM ILC "FIBER LOCATOR" OVER 3" x 3" HARD HOLE OUTSIDE COMPOUND TO NEW "VERIZON WIRELESS ONLY" 3" x 3" HARD HOLE AT FUTURE FIBER TEE OFF LOCATION
  - INSTALL A NEW 11'-0" X 11'-0" PREFABRICATED CANOPY ON EXISTING CONCRETE PAD FOUNDATION
  - INSTALL NEW ICE BRIDGE AND FOUNDATIONS
  - INSTALL NEW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
  - INSTALL NEW ANTENNA LINES, COAX, GPS ANTENNA AND HARD EQUIPMENT
  - INSTALL EXISTING SUBSURFACE GROUND LEADS TO NEW EQUIPMENT & FACILITIES
  - INSTALL NEW ELECTRIC SERVICE CONDUCTORS FROM UTILITY W-FRAME TO NEW ILC ENCLOSURE
  - INSTALL CONDUITS FROM NEW ILC TO VIEW EQUIPMENT ENCLOSURES
  - INSTALL NEW OUTDOOR DWP AND CABLEING W-FRAME SUPPORT
  - INSTALL (2) 1/2" x 1/2" x 11' BUNDLES WITH PULL TAPES AND TRACER WIRE WITHIN INSTALLED "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUITS

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 AUTHORITY. NOTHING IN THESE PLANS IS TO BE CONSIDERED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

**BUILDING CODE** 2013 KENTUCKY BUILDING CODE (KBC 2013)  
**STRUCTURAL CODE** TIA/PSA-212 - REVISION 6 (INCLUDES ADDENDUM #2)  
**MECHANICAL CODE** 2013 INTERNATIONAL MECHANICAL CODE (IMC 2013)  
**PLUMBING CODE** KENTUCKY STATE PLUMBING CODE (KSC GAS CHAP. 10)  
**ELECTRICAL CODE** 2014 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70  
**FIRE/LIFE SAFETY CODE** 2012 INTERNATIONAL FIRE CODE (IFC) IFC  
**ENERGY CODE** 2009 INTERNATIONAL ENERGY CODE (IECC/MECHANICAL) GAS CODE  
**2009 NATIONAL FUEL GAS CODE (NFPA 54)**

**ACCESSIBILITY REQUIREMENTS:**  
FACILITY IS UNMANNED AND NOT FOR EMERGENCY MAINTENANCE. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED BY ACCORDANCE WITH THE 2009 IBC BUILDING CODE.

**APPLICABLE CODES**

**SURVEYOR**  
POWER OF DESIGN GROUP, LLC  
11490 BLUEGRASS PARKWAY  
LOUISVILLE, KY 40299  
PHONE: (502) 437-5252

**ARCHITECTURAL**  
POWER OF DESIGN GROUP, LLC  
11490 BLUEGRASS PARKWAY  
LOUISVILLE, KY 40299  
PHONE: (502) 437-5252

**ELECTRICAL**  
JACKSON PURCHASE ENERGY CORPORATION  
ADDRESS: 2500 IRVIN CROSS DR  
PADUCAH, KY 42003  
CONTACT: TBD  
PHONE: (270) 442-7722  
EMAIL: TBD

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

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
B-1 TO B-1.1	SITE SURVEY
R-1	REVISION LOG
TOWER ELEVATION	
T-1	TOWER ELEVATION
CIVIL	
C-1A	OVERALL SITE PLAN
C-3	DETAILED SITE PLAN
C-4	DIMENSIONED SITE PLAN
ELECTRICAL	
E-0	OVERALL UTILITY PLAN



CELLCO PARTNERSHIP  
D/B/A



2421 HOLLOWAY ROAD  
LOUISVILLE, KY 40299

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

**PRELIMS**

REV.	DATE	DESCRIPTION
A	7.23.19	ISSUED FOR REVIEW

SITE INFORMATION:

**EV BARLOW SE**  
WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY

POD NUMBER: 19-42134  
DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 07.11.19

SHEET TITLE:  
**PROJECT  
INFORMATION, SITE  
MAPS, SHEET INDEX**

SHEET NUMBER:  
**T-1**

**PROJECT SUMMARY**



VICINITY MAP

**PROJECT DESCRIPTION**



LOCATION MAP

**CONSULTANT TEAM**



AERIAL





**LEGAL DESCRIPTIONS**

**PROPOSED LEASE AREA**

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3) OF RECORD IN THE OFFICE OF THE CLERK OF BALLARD COUNTY, KENTUCKY, PARCEL ID: 37-17-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JUNE 28, 2019.

COMMENCING AT A FOUND 1/2" REBAR WITH CAP STAMPED "3289" AT THE SOUTHWEST CORNER OF THE PARCEL CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3), AND SAID POINT ALSO BEING AT THE NORTHWEST CORNER OF THE PARCEL CONVEYED TO GARY & GERALDINE L. KNIGHT AS DESCRIBED IN DEED BOOK 77, PAGE 461 (TRACT 4), FOR REFERENCE, SAID COMMENCEMENT POINT IS 509°07'52"W 1447.24' FROM THE NORTHWEST CORNER OF SAID TURNER PARCEL (A FOUND 1/2" REBAR WITH CAP STAMPED "3289" BEING SOUTH 509°07'52"W 0.61' FROM SAID NORTHWEST CORNER); THENCE WITH SAID TURNER LINE, N09°07'52"E 097.67'; THENCE LEAVING SAID LINE, TRAVERSING ACROSS THE LAND OF TURNER, S80°52'08"E 115.00'; THENCE S80°52'08"E 30.00' TO A SET 1/2" REBAR, 18" LONG, CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", AT THE NORTHWEST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE S80°52'08"E 100.00' TO A SET IPC; THENCE S09°07'52"W 100.00' TO A SET IPC; THENCE N80°52'08"W 100.00' TO A SET IPC; THENCE N09°07'52"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JUNE 28, 2019.

**PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT**

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' / VARIABLE WIDTH ACCESS AND UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3) OF RECORD IN THE OFFICE OF THE CLERK OF BALLARD COUNTY, KENTUCKY, PARCEL ID: 37-17-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JUNE 28, 2019.

COMMENCING AT A FOUND 1/2" REBAR WITH CAP STAMPED "3289" AT THE SOUTHWEST CORNER OF THE PARCEL CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3), AND SAID POINT ALSO BEING AT THE NORTHWEST CORNER OF THE PARCEL CONVEYED TO GARY & GERALDINE L. KNIGHT AS DESCRIBED IN DEED BOOK 77, PAGE 461 (TRACT 4), FOR REFERENCE, SAID COMMENCEMENT POINT IS 509°07'52"W 1447.24' FROM THE NORTHWEST CORNER OF SAID TURNER PARCEL (A FOUND 1/2" REBAR WITH CAP STAMPED "3289" BEING SOUTH 509°07'52"W 0.61' FROM SAID NORTHWEST CORNER); THENCE WITH SAID TURNER LINE, N09°07'52"E 697.67'; THENCE LEAVING SAID LINE, TRAVERSING ACROSS THE LAND OF TURNER, S80°52'08"E 115.00' TO THE TRUE POINT OF BEGINNING; THENCE S80°52'08"E 80.00' TO A SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", AT THE NORTHWEST CORNER OF THE PROPOSED LEASE AREA; THENCE ALONG PROPOSED LEASE AREA, S09°07'52"W 100.00' TO A SET IPC; THENCE LEAVING SAID LEASE AREA, N80°52'08"W 80.00'; THENCE N09°07'52"E 25.00'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING AN ARC LENGTH OF 15.81', WITH A RADIUS OF 10.00', WITH A CHORD BEARING OF R53°43'45"W, AND A CHORD LENGTH OF 14.21'; THENCE ALONG THE ARC OF A COMPOUND CURVE TO THE LEFT HAVING AN ARC LENGTH OF 54.62', WITH A RADIUS OF 85.00', WITH A CHORD BEARING OF S53°30'24"W, AND A CHORD LENGTH OF 49.24'; THENCE S09°07'52"W 68.51'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING AN ARC LENGTH OF 55.81', WITH A RADIUS OF 65.00', WITH A CHORD BEARING OF S53°43'45"W, AND A CHORD LENGTH OF 54.11'; THENCE S58°19'57"W 65.00' TO THE WEST LINE OF SAID TURNER; THENCE ALONG SAID TURNER LINE, N09°07'52"E 58.24'; THENCE ALONG THE ARC OF A NON-TANGENT CURVE TO THE LEFT HAVING AN ARC LENGTH OF 68.73', WITH A RADIUS OF 50.00', WITH A CHORD BEARING OF N48°30'45"E, AND A CHORD LENGTH OF 63.45'; THENCE N09°07'52"E 52.64'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING AN ARC LENGTH OF 101.88', WITH A RADIUS OF 65.00', WITH A CHORD BEARING OF N54°02'00"E, AND A CHORD LENGTH OF 91.77'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING AN ARC LENGTH OF 15.67', WITH A RADIUS OF 10.00', WITH A CHORD BEARING OF N54°02'00"E, AND A CHORD LENGTH OF 14.12'; THENCE N09°07'52"E 25.00' TO THE POINT OF BEGINNING CONTAINING 11,077.565 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JUNE 28, 2019.

**PARENT PARCEL, LEGAL DESCRIPTION, DEED BOOK 77, PAGE 464 (NOT FIELD SURVEYED)**

A TRACT OF LAND LYING ON THE SOUTH SIDE OF TABOR ROAD, AND THE EAST OF WAYSIDE INN ROAD CONSISTING OF 85.37 ACRES AND BEING DESIGNATED AS "TRACT 3" ON A PLAT OF WAIVER SURVEY OF THE MARK KNIGHT, ET AL. PROPERTY AS RECORDED IN PLAT CABINET 2 SLIDE 35 IN BALLARD COUNTY CLERK'S OFFICE, BEING A PART OF THE PROPERTY INHERITED BY GRANTORS MARK KNIGHT, LOREA TURNER, AND GARY KNIGHT, THE CHILDREN OF JIMMY BOB KNIGHT, SEX AFFIDAVIT OF DESCENT AND TRANSFER BY TESTATE SUCCESSION, DATED MARCH 2, 2001 AND OF RECORD IN CABINET 1, DRAWER 20, CARD 042768 IN THE BALLARD COUNTY CLERK'S OFFICE.

**LAND SURVEYOR'S CERTIFICATE**

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201.18-250.

MARK PATTERSON, PLS #3136

DATE



**SITE SURVEY**

REV.	DATE	DESCRIPTION
A	7.8.19	PRELIM ISSUE

**SITE INFORMATION:**  
**EV BARLOW SE**  
 WAYSIDE INN RD  
 WICKLIFFE, KY 42087  
 BALLARD COUNTY  
**TAX PARCEL NUMBER:**  
 37-17-03  
**PROPERTY OWNER:**  
 LOREA & KENNY TURNER  
 5674 HENRIEVILLE RD  
 LACENTER, KY 42056  
**SOURCE OF TITLE:**  
 DEED BOOK 77, PAGE 464

**POD NUMBER:** 19-42117  
**DRAWN BY:** JRS  
**CHECKED BY:** MEP  
**SURVEY DATE:** 6.28.19  
**PLAT DATE:** 7.5.19  
**SHEET TITLE:**  
**SITE SURVEY**  
 THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.  
**SHEET NUMBER: (2 pages)**  
**B-1.1**

**REVISION LOG**

REV #	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	7/23/19	ALL SHEETS	ISSUED FOR REVIEW



CELCO PARTNERSHIP  
DBA



2421 HOLLOWAY ROAD  
LOUISVILLE, KY 40299

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

**PRELIMS**

REV.	DATE	DESCRIPTION
A	7.23.19	ISSUED FOR REVIEW

**SITE INFORMATION:**

**EV BARLOW SE**

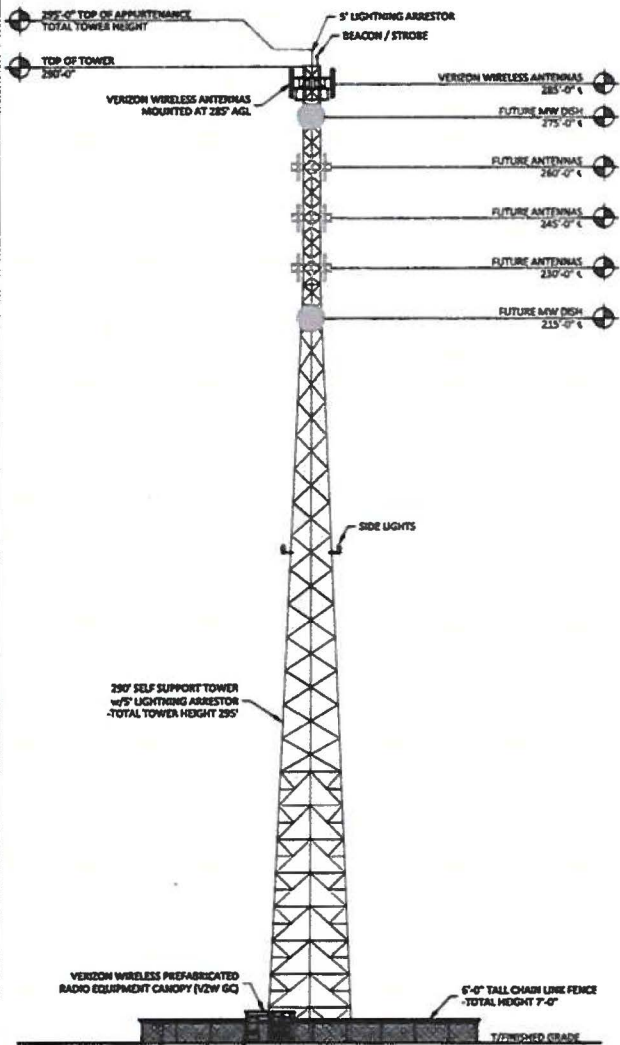
WAYSIDE 808 RD  
WICKLIFFE, KY 40087  
BALLARD COUNTY

POD NUMBER: 19-42124  
DRAWN BY: POD  
CHECKED BY: SHP  
DATE: 07.11.19

**SHEET TITLE:**

**REVISION LOG**

SHEET NUMBER:  
**R-1**

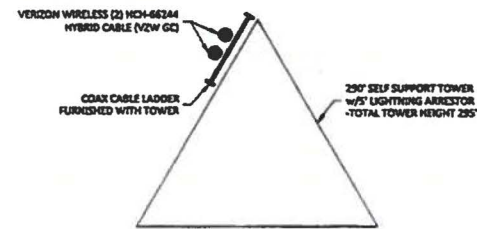


**TOWER ELEVATION**  
SCALE: N.T.S.

1  
TE-1

**NOTE:**

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



**COAX PLAN**  
SCALE: N.T.S.



CELCO PARTNERSHIP  
OWNER



2423 HOLLOWAY ROAD  
LOUISVILLE, KY 40299

PRELIMINARY  
NOT FOR  
CONSTRUCTION

**PRELIMS**

REV.	DATE	DESCRIPTION
A	7.23.19	ISSUED FOR REVIEW

SITE INFORMATION:

**EV BARLOW SE**

WAYSIDE INN RD  
WOLFFE, KY 42087  
BALLARD COUNTY

POD NUMBER: 19-42124  
DRAWN BY: POD  
CHECKED BY: MZP  
DATE: 07.23.19

SHEET TITLE:

**TOWER ELEVATION**

SHEET NUMBER:  
**TE-1**



CELLCO PARTNERSHIP  
CMAA



2421 HOLLOWAY ROAD  
LOUISVILLE, KY 40299

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

**PRELIMS**

REV.	DATE	DESCRIPTION
A	7.23.19	ISSUED FOR REVIEW

SITE INFORMATION:

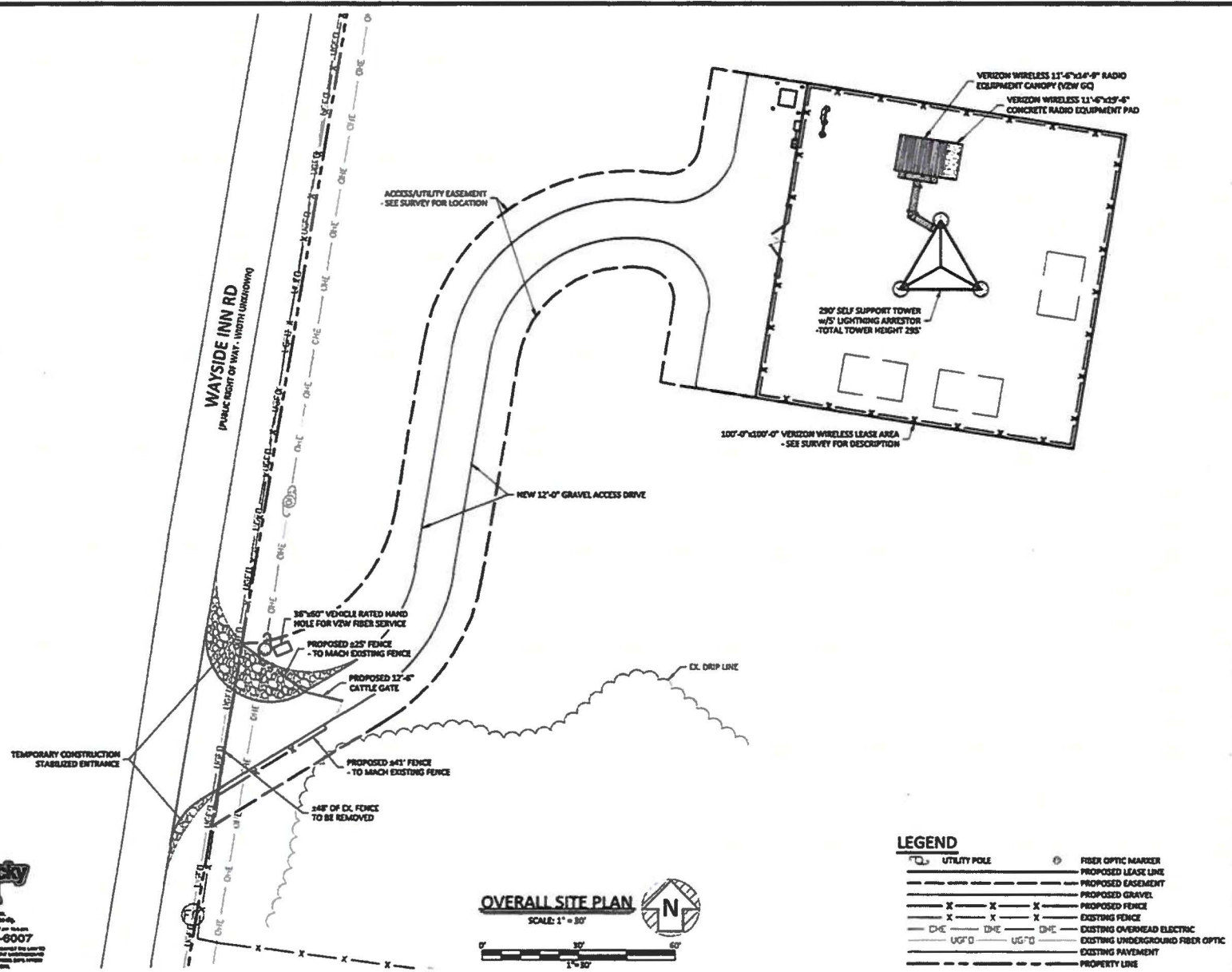
**EV BARLOW SE**  
WAYSIDE INN RD  
WOODLIFFE, KY 40287  
BALLARD COUNTY

POD NUMBER: 23-42314  
DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 07.11.19

SHEET TITLE:

**OVERALL SITE PLAN**

SHEET NUMBER:  
**C-1A**



**LEGEND**

	UTILITY POLE		FIBER OPTIC MARKER
	PROPOSED LEASE LINE		PROPOSED EASEMENT
	PROPOSED GRAVEL		PROPOSED FENCE
	EXISTING FENCE		EXISTING OVERHEAD ELECTRIC
	EXISTING UNDERGROUND FIBER OPTIC		EXISTING PAVEMENT
	PROPERTY LINE		



CELCO PARTNERSHIP  
DBA



2421 HOLLOWAY ROAD  
LOUISVILLE, KY 40299

**PRELIMINARY  
NOT FOR  
CONSTRUCTION**

PRELIMS

REV.	DATE	DESCRIPTION
A	7.23.19	ISSUED FOR REVIEW

SITE INFORMATION:

**EV BARLOW SE**

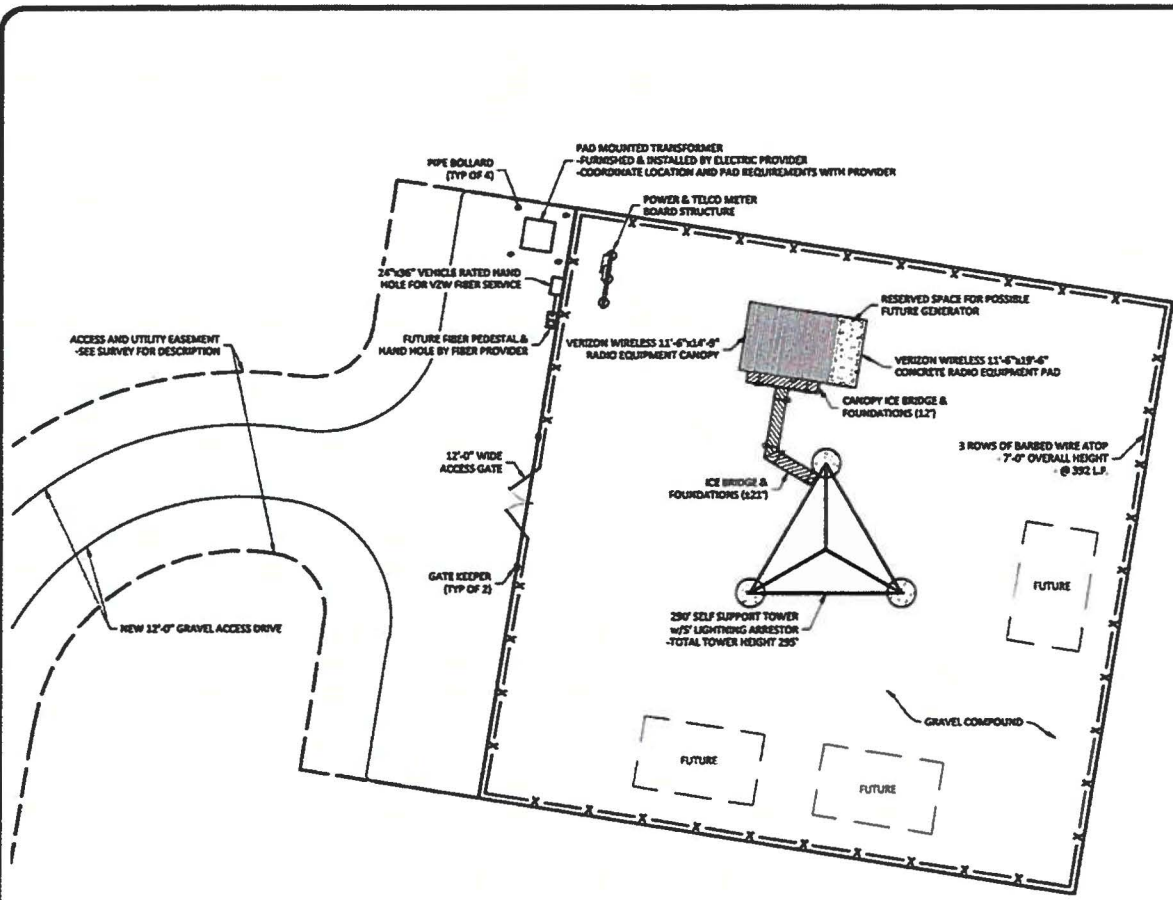
WAYSIDE DRW RD  
WICKLIFFE, KY 40387  
BALLARD COUNTY

POD NUMBER: 19-42124  
DRAWN BY: MJP  
CHECKED BY: MJP  
DATE: 07.31.19

SHEET TITLE:

**DETAILED SITE PLAN**

SHEET NUMBER:  
**C-3**



1-800-752-6007

**\*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



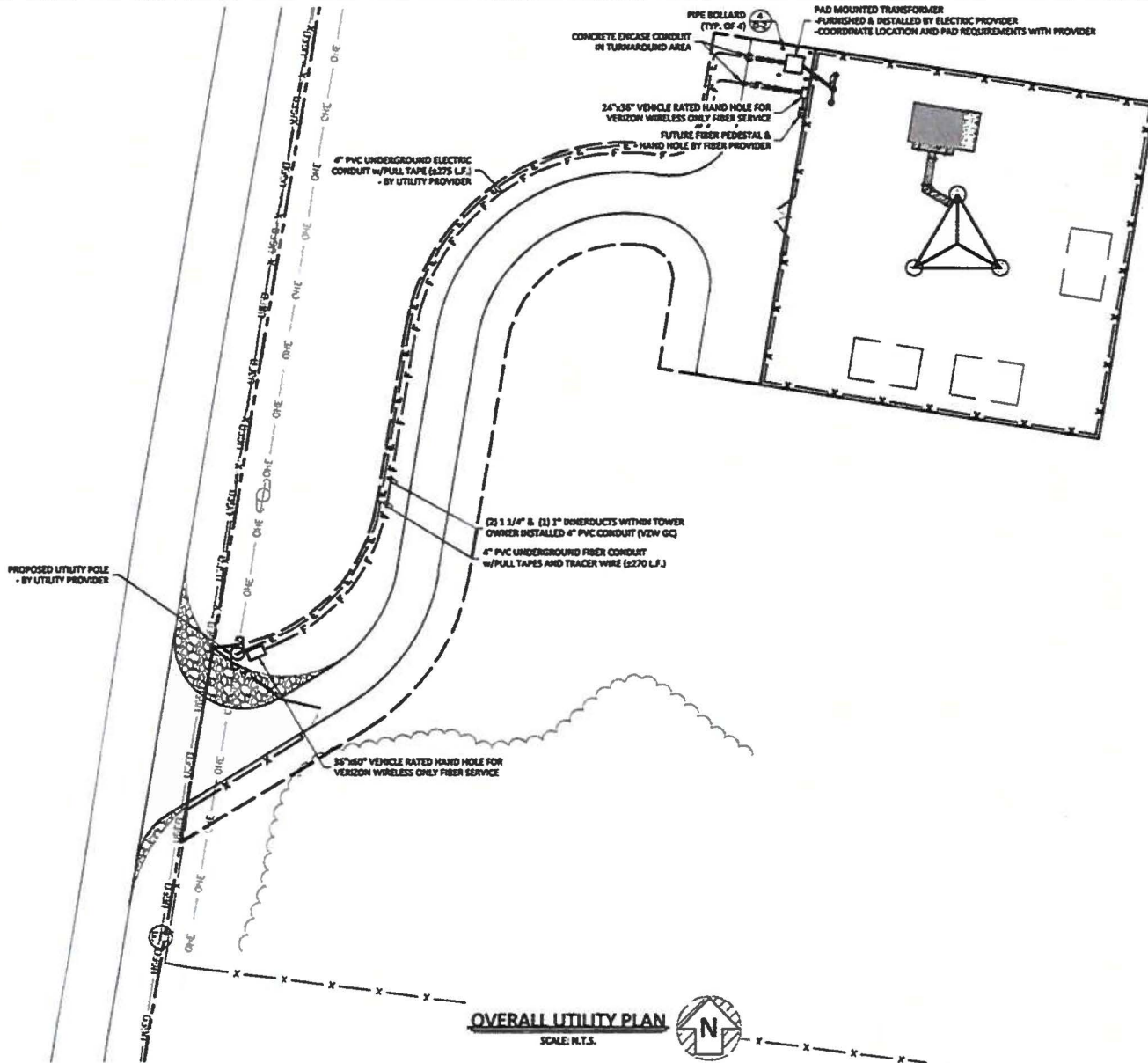
**DETAILED SITE PLAN**  
SCALE: 1" = 20'



**LEGEND**

- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED FENCE





CELCO PARTNERSHIP  
d/b/a



2421 HOLLOWAY ROAD  
LOUISVILLE, KY 40299

PRELIMINARY  
NOT FOR  
CONSTRUCTION

PRELIMS

REV.	DATE	DESCRIPTION
A	7.23.19	ISSUED FOR REVIEW

SITE INFORMATION:

EV BARLOW SE

WAYSIDE INN RD  
WICKLIFFE, KY 40387  
BALLARD COUNTY

POD NUMBER: 19-42134

DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 07.11.19

SHEET TITLE:

OVERALL UTILITY  
PLAN

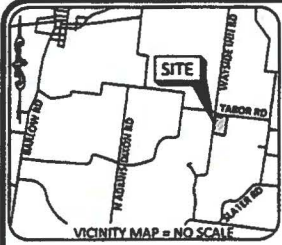
SHEET NUMBER:

E-0



**EXHIBIT "C"**

**SURVEY**



\* FAA COORDINATE POINT  
 HAD 83  
 LATITUDE: 37°01'45.61"  
 LONGITUDE: -89°00'07.63"  
 NAVD 88  
 ELEVATION: 443'± AMSL  
 NORTHING: 3,550,806.300  
 EASTING: 3,972,069.788

**GENERAL NOTES**

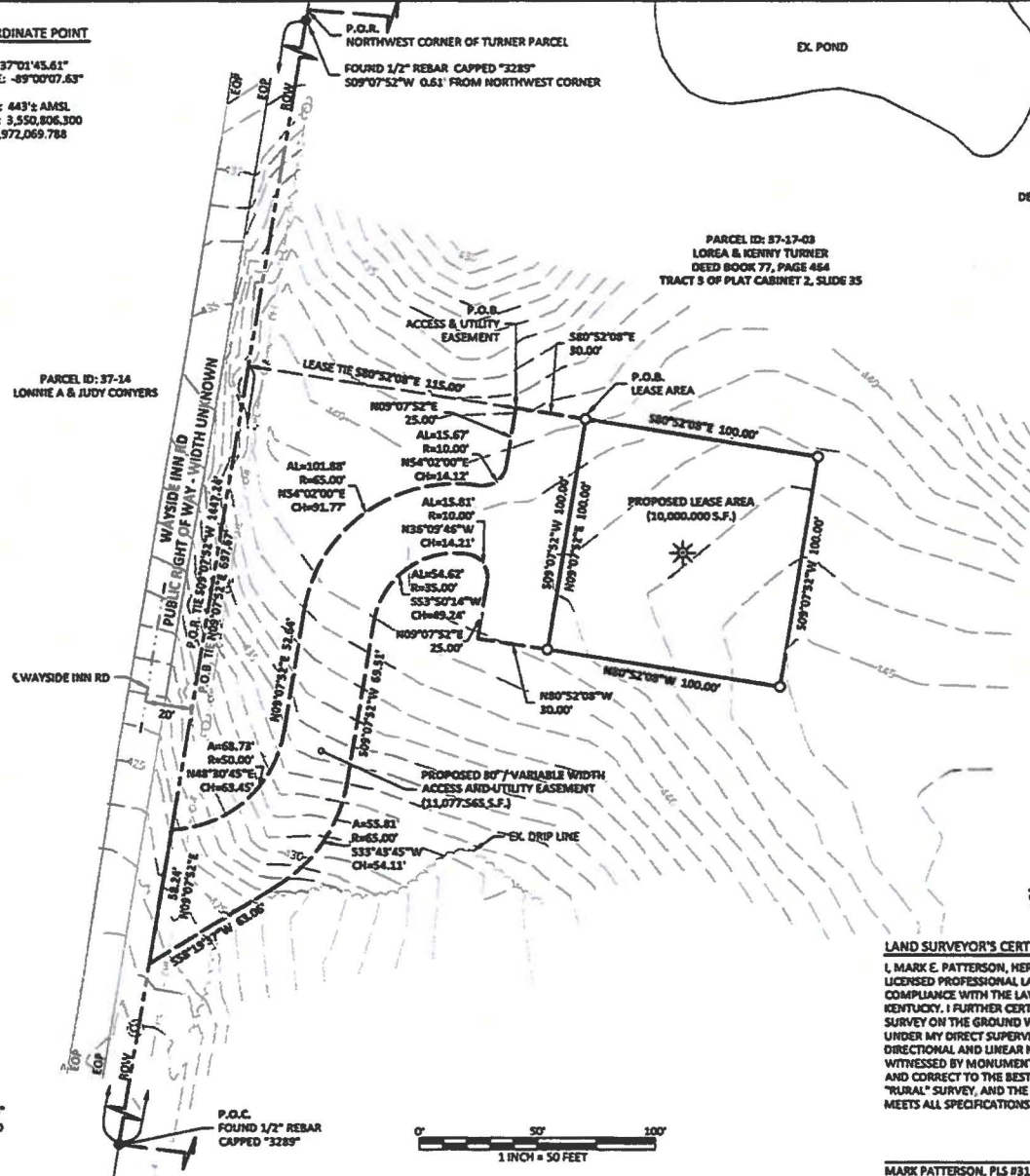
NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE SUBJECT PROPERTY.  
 THIS SURVEY IS FOR THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT TRACT HAS BEEN PERFORMED.  
 A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE EQUALS 0.00', FOR A PRECISION OF 1:42,466 AND HAS NOT BEEN ADJUSTED.  
 THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HEREON OR NOT.  
 THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.  
 THE PARENT PARCEL, THE PROPOSED LEASE AREA THE PROPOSED 30' VARIABLE WIDTH ACCESS & UTILITY EASEMENTS SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 2100700095C, DATED JULY 7, 2014.

**GLOBAL POSITIONING SYSTEMS NOTE**

1. RANDOM CONTROL POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS.
2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KDOT VRS NETWORK), HAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04" TO 0.08" HORIZONTALLY.
3. TOPCON HIPER V DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.

**LEGEND**

- EX. FIBER OPTIC MARKER
- EX. UTILITY POLE
- P.O.C. POINT OF COMMENCEMENT
- P.O.R. POINT OF REFERENCE
- P.O.B. POINT OF BEGINNING
- 
- 
- 
- 



PARCEL ID: 87-17-03  
 LOREA & KERRY TURNER  
 DEED BOOK 77, PAGE 464  
 TRACT 3 OF PLAT CABINET 2, SLIDE 35

PARCEL ID: 37-14  
 LONNIE A & JUDY CONYERS



**LAND SURVEYOR'S CERTIFICATE**

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



MARK PATTERSON, PLS #3136 DATE

PREPARED BY:  
  
 13490 BELMONT PARKWAY  
 LOUISVILLE, KY 40299  
 502-437-1533

PREPARED FOR:  
  
 CELLCO PARTNERSHIP  
 D/B/A

**SITE SURVEY**

REV.	DATE	DESCRIPTION
A	7.8.19	PRELIM ISSUE
B	8.2.19	TITLE REVIEW

**SITE INFORMATION:**  
**EV BARLOW SE**  
 WAYSIDE INN RD  
 WICKLIFFE, KY 42087  
 BALLARD COUNTY  
**TAX PARCEL NUMBER:**  
 37-17-03  
**PROPERTY OWNER:**  
 LOREA & KERRY TURNER  
 5874 HINKLEVILLE RD  
 LACENTER, KY 42056  
**SOURCE OF TITLE:**  
 DEED BOOK 77, PAGE 464

**POD NUMBER:** 19-42117  
**DRAWN BY:** JRS  
**CHECKED BY:** MEP  
**SURVEY DATE:** 6.28.19  
**PLAT DATE:** 7.5.19  
**SHEET TITLE:**  
**SITE SURVEY**  
 THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL.  
**SHEET NUMBER:** (2 pages)  
**B-1**

**PROPOSED LEASE AREA**

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3) OF RECORD IN THE OFFICE OF THE CLERK OF BALLARD COUNTY, KENTUCKY, PARCEL ID: 37-17-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JUNE 28, 2019.

COMMENCING AT A FOUND 1/2" REBAR WITH CAP STAMPED "3228" AT THE SOUTHWEST CORNER OF THE PARCEL CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3), AND SAID POINT ALSO BEING AT THE NORTHWEST CORNER OF THE PARCEL CONVEYED TO GARY & GERALDINE L. KNIGHT AS DESCRIBED IN DEED BOOK 77, PAGE 461 (TRACT 4), FOR REFERENCE, SAID COMMENCEMENT POINT IS 509°07'52"W 1447.24' FROM THE NORTHWEST CORNER OF SAID TURNER PARCEL (A FOUND 1/2" REBAR WITH CAP STAMPED "3228" BEING SOUTH 509°07'52"W 0.61' FROM SAID NORTHWEST CORNER); THENCE WITH SAID TURNER LINE, N09°07'52"E 697.67'; THENCE LEAVING SAID LINE, TRAVERSING ACROSS THE LAND OF TURNER, S80°52'08"E 115.00'; THENCE S80°52'08"E 30.00' TO A SET 1/2" REBAR, 18" LONG, CAPPED "PATTERSON PLS 8136", HEREAFTER REFERRED TO AS A "SET IPC", AT THE NORTHWEST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE S80°52'08"E 100.00' TO A SET IPC; THENCE 509°07'52"W 100.00' TO A SET IPC; THENCE N80°52'08"W 100.00' TO A SET IPC; THENCE N09°07'52"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000,000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #5136 DATED JUNE 28, 2019.

**PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT**

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' / VARIABLE WIDTH ACCESS AND UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3) OF RECORD IN THE OFFICE OF THE CLERK OF BALLARD COUNTY, KENTUCKY, PARCEL ID: 37-17-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JUNE 28, 2019.

COMMENCING AT A FOUND 1/2" REBAR WITH CAP STAMPED "3228" AT THE SOUTHWEST CORNER OF THE PARCEL CONVEYED TO LOREA & KENNY TURNER AS DESCRIBED IN DEED BOOK 77, PAGE 464 (TRACT 3), AND SAID POINT ALSO BEING AT THE NORTHWEST CORNER OF THE PARCEL CONVEYED TO GARY & GERALDINE L. KNIGHT AS DESCRIBED IN DEED BOOK 77, PAGE 461 (TRACT 4), FOR REFERENCE, SAID COMMENCEMENT POINT IS 509°07'52"W 1447.24' FROM THE NORTHWEST CORNER OF SAID TURNER PARCEL (A FOUND 1/2" REBAR WITH CAP STAMPED "3228" BEING SOUTH 509°07'52"W 0.61' FROM SAID NORTHWEST CORNER); THENCE WITH SAID TURNER LINE, N09°07'52"E 697.67'; THENCE LEAVING SAID LINE, TRAVERSING ACROSS THE LAND OF TURNER, S80°52'08"E 115.00' TO THE TRUE POINT OF BEGINNING; THENCE S80°52'08"E 30.00' TO A SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 8136", HEREAFTER REFERRED TO AS A "SET IPC", AT THE NORTHWEST CORNER OF THE PROPOSED LEASE AREA; THENCE ALONG PROPOSED LEASE AREA, S09°07'52"W 100.00' TO A SET IPC; THENCE LEAVING SAID LEASE AREA, N80°52'08"W 30.00'; THENCE N09°07'52"E 25.00'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING AN ARC LENGTH OF 15.81', WITH A RADIUS OF 10.00', WITH A CHORD BEARING OF N36°09'46"W, AND A CHORD LENGTH OF 14.21'; THENCE ALONG THE ARC OF A COMPOUND CURVE TO THE LEFT HAVING AN ARC LENGTH OF 54.62', WITH A RADIUS OF 35.00', WITH A CHORD BEARING OF S33°50'14"W, AND A CHORD LENGTH OF 49.24'; THENCE S09°07'52"W 68.51'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING AN ARC LENGTH OF 53.81', WITH A RADIUS OF 65.00', WITH A CHORD BEARING OF S33°43'45"W, AND A CHORD LENGTH OF 54.11'; THENCE S58°19'37"W 63.06' TO THE WEST LINE OF SAID TURNER; THENCE ALONG SAID TURNER LINE, N09°07'52"E 58.24'; THENCE ALONG THE ARC OF A NON-TANGENT CURVE TO THE LEFT HAVING AN ARC LENGTH OF 68.79', WITH A RADIUS OF 50.00', WITH A CHORD BEARING OF N48°30'45"E, AND A CHORD LENGTH OF 63.45'; THENCE N09°07'52"E 52.64'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING AN ARC LENGTH OF 101.88', WITH A RADIUS OF 65.00', WITH A CHORD BEARING OF N54°02'00"E, AND A CHORD LENGTH OF 91.77'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING AN ARC LENGTH OF 15.67', WITH A RADIUS OF 10.00', WITH A CHORD BEARING OF N54°02'00"E, AND A CHORD LENGTH OF 14.12'; THENCE N09°07'52"E 25.00' TO THE POINT OF BEGINNING CONTAINING 13,077,565 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #5136 DATED JUNE 28, 2019.

**PARENT PARCEL, LEGAL DESCRIPTION, DEED BOOK 77, PAGE 464 (NOT FIELD SURVEYED)**

A TRACT OF LAND LYING ON THE SOUTH SIDE OF TABOR ROAD, AND THE EAST OF WAYSIDE INN ROAD CONSISTING OF 35.27 ACRES AND BEING DESIGNATED AS "TRACT 3" ON A PLAT OF WAIVER SURVEY OF THE MARK KNIGHT, ET AL, PROPERTY AS RECORDED IN PLAT CABINET 2, SLIDE 35 IN BALLARD COUNTY CLERK'S OFFICE, BEING A PART OF THE PROPERTY INHERITED BY GRANTORS MARK KNIGHT, LOREA TURNER, AND GARY KNIGHT, THE CHILDREN OF JIMMY BOB KNIGHT, SEE AFFIDAVIT OF DESCENT AND TRANSFER BY INTESTATE SUCCESSION, DATED MARCH 2, 2001 AND OF RECORD IN CABINET 1, DRAWER 20, CARD #42768 IN THE BALLARD COUNTY CLERK'S OFFICE.

**LEGAL DESCRIPTIONS**

**TITLE OF COMMITMENT, DEED BOOK 77, PAGE 464 (PARCEL ID: 37-17-03)**

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC, AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESCRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. INFORMATION REGARDING THESE MATTERS WERE GAINED FROM FIDELITY NATIONAL TITLE, ORDER NO. C1905592LKY, PREPARED FOR VERIZON WIRELESS, DATED JULY 8, 2019 AT 8:00 AM. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID SEARCH AND THE NUMBERS IN THE COMMENTS CORRESPOND TO THE NUMBERING SYSTEM IN SAID REPORT.

**SCHEDULE B, PART II (EXCEPTIONS)**

1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I-REQUIREMENTS ARE MET, (NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
2. LIEN OF CITY, COUNTY AND OTHER REAL ESTATE TAXES FOR THE PERIOD 2019 AND ALL SUBSEQUENT YEARS, NOT YET DUE AND PAYABLE, (NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
3. ANY ENCROACHMENT, ENCUMBRANCE, VIOLATION, VARIATION, OR ADVERSE CIRCUMSTANCE AFFECTING THE TITLE, OR EASEMENTS OR CLAIMS OF EASEMENTS NOT SHOWN BY THE PUBLIC RECORDS THAT WOULD BE DISCLOSED BY AN ACCURATE AND COMPLETE LAND SURVEY OF THE LAND, (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY OF THE PARENT PARCEL, AND THEREFORE CANNOT ADDRESS THIS ITEM.)
4. RIGHTS OF TENANTS IN POSSESSION, AS TENANTS ONLY, UNDER UNRECORDED UNEXPIRED LEASES, (NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
5. ALL COAL, OIL, GAS AND OTHER MINERAL RIGHTS HERETOFORE CONVEYED, EXCEPTED, RESERVED OR LEASED, TOGETHER WITH ALL INCIDENTAL RIGHTS THERETO, (POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
6. CONDITIONS, STIPULATIONS, RESTRICTIONS, BUILDING LINES AND EASEMENTS, TOGETHER WITH INCIDENTAL RIGHTS, AS PROVIDED FOR ON THE RECORDED PLAT OF RECORD IN PLAT CABINET 2, SLIDE 35, IN THE OFFICE AFORESAID, (PLAT AS RECORDED IN PLAT CABINET 2, SLIDE 35, DOES AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT.)

**LAND SURVEYOR'S CERTIFICATE**

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE, THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.

MARK PATTERSON, PLS #5136

DATE



**SITE SURVEY**

REV.	DATE	DESCRIPTION
A	7.8.19	PRELIM ISSUE
B	8.2.19	TITLE REVIEW

**SITE INFORMATION:**  
**EV BARLOW SE**  
 WAYSIDE INN RD  
 WICKLIFFE, KY 42087  
 BALLARD COUNTY  
 TAX PARCEL NUMBER:  
 37-17-03  
 PROPERTY OWNER:  
 LOREA & KENNY TURNER  
 5874 HINXLEVILLE RD  
 LACENTER, KY 42056  
 SOURCE OF TITLE:  
 DEED BOOK 77, PAGE 464

POD NUMBER: 19-42117  
 DRAWN BY: JRS  
 CHECKED BY: MEP  
 SURVEY DATE: 6.28.19  
 PLAT DATE: 7.5.19

SHEET TITLE:  
**SITE SURVEY**  
 THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

SHEET NUMBER: (2 pages)  
**B-1.1**

**EXHIBIT J  
NOTIFICATION LISTING**

**Barlow SE – Landowner Notice List**

TURNER LOREA & KENNY  
3819 TABOR ROAD  
BARLOW KY 42024

KNIGHT SAMANTHA JO  
4871 HINKLEVILLE ROAD  
LA CENTER KY 42056

KNIGHT GARY & GERALDINE L  
1474 WAYSIDE INN ROAD  
BARLOW, KY 42024

CONYERS LONNIE A OR JUDY  
3193 TABOR ROAD  
WICKLIFFE KENTUCKY 42087

CONYERS GINA RENEE  
1575 WAYSIDE INN ROAD  
BARLOW KY 42024

KITT PAUL G & SANDRA  
3781 TABOR ROAD  
BARLOW KY 42024

TURNER KENNY & LOREA  
3819 TABOR ROAD  
BARLOW KY 42024

PURCELL JUDITH  
ROBERT NEAL  
572 CEREDO ROAD  
BARLOW KY 42024

**EXHIBIT K**  
**COPY OF PROPERTY OWNER NOTIFICATION**



1578 Highway 44 East, Suite 6  
P.O. Box 369  
Shepherdsville, KY 40165-0369  
Phone (502) 955-4400 or (800) 516-4293  
Fax (502) 543-4410 or (800) 541-4410

**Notice of Proposed Construction of  
Wireless Communications Facility  
Site Name: Barlow SE**

Dear Landowner:

Cellco Partnership d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at Wayside Inn Road, Wickliffe, KY 42087 (37° 01' 45.61" North latitude, 89° 00' 07.63" West longitude). The proposed facility will include a 290-foot tall antenna tower, plus a 5-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the Ballard County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00105 in any correspondence sent in connection with this matter.

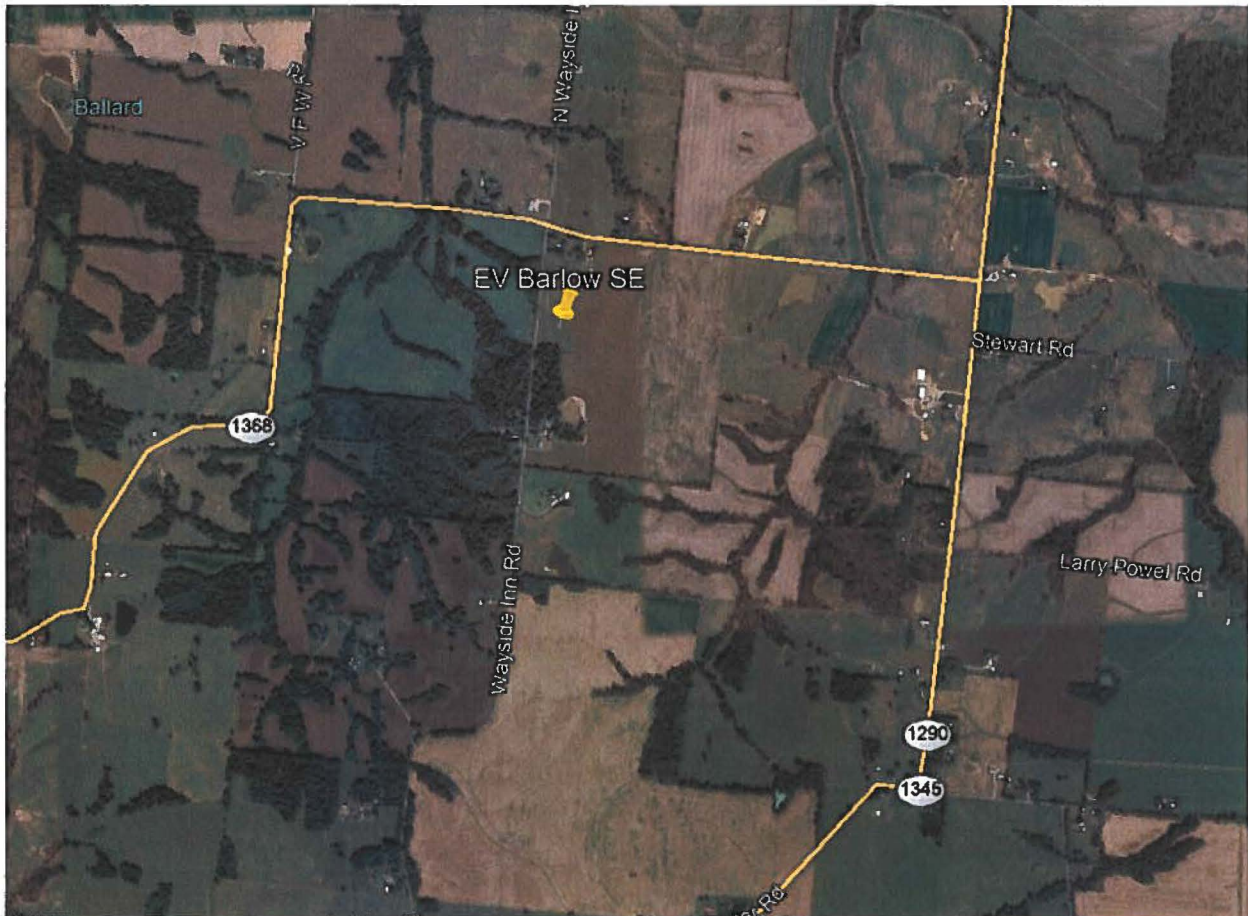
We have attached a map showing the site location for the proposed tower. Verizon Wireless' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us toll free at (800) 516-4293 if you have any comments or questions about this proposal.

Sincerely,  
David A. Pike  
Attorney for Applicants

enclosure

### **Driving Directions to Proposed Tower Site**

1. Beginning at the Ballard County Clerk's Office, located at 132 4th Street, Wickliffe, KY 42087 head south on 4th Street toward Court Street and travel 197 feet.
2. Turn left at the 1st cross street onto Court Street and travel approximately 0.4 miles.
3. Turn left onto KY-286 / Phillips Drive and travel approximately 1.2 miles.
4. Turn left onto Buck Road and travel approximately 0.4 miles.
5. Turn right onto KY-1290 and travel approximately 4.0 miles.
6. Turn left onto South Wayside Inn Road and travel approximately 1.6 miles.
7. The site will be on the right at Wayside Inn Road, Wickliffe, KY 42087.
8. The site coordinates are
  - a. North  $37^{\circ} 01' 45.61''$
  - b. West  $89^{\circ} 00' 07.63''$



Prepared by:  
Chris Shouse  
Pike Legal Group PLLC  
1578 Highway 44 East, Suite 6  
P.O. Box 369  
Shepherdsville, KY 40165-3069  
Telephone: 502-955-4400 or 800-516-4293



**GENERAL NOTE:**

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE BALLARD COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON JUNE 28, 2019 AND RE-VERIFIED ON MARCH 11, 2020. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
3. NOT FOR RECORDING OR PROPERTY TRANSFER

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

(A1) PARCEL ID: 37-17-03  
TURNER LOREA & KENNY  
3819 TABOR ROAD  
BARLOW KY 42024

(B1) PARCEL ID: 37-17-02  
KNIGHT SAMANTHA JO  
4871 HINKLEVILLE ROAD  
LA CENTER KY 42056

(C1) PARCEL ID: 37-17-04  
KNIGHT GARY & GERALDINE L  
1474 WAYSIDE INN ROAD  
BARLOW, KY 42024

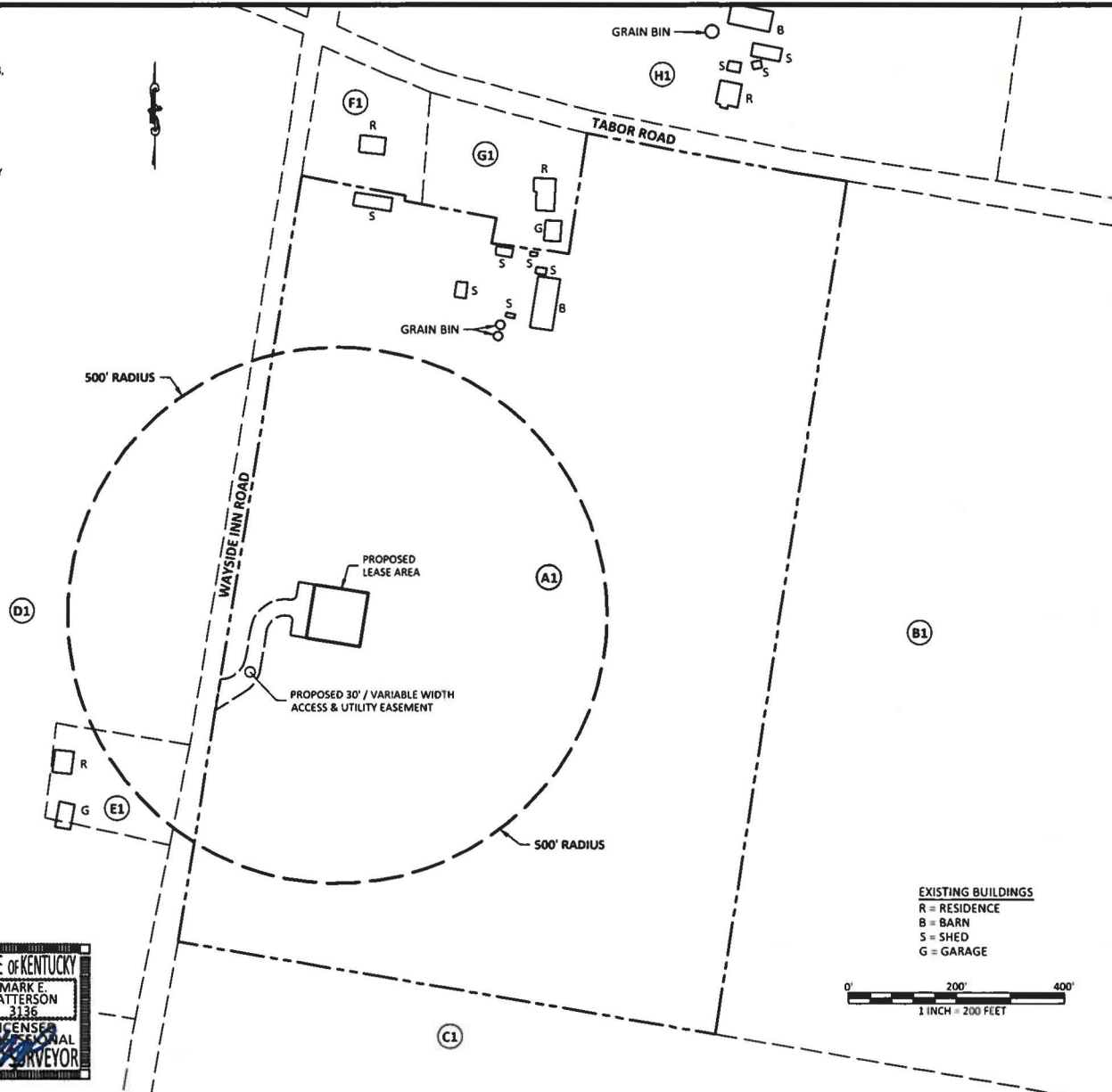
(D1) PARCEL ID: 37-14  
CONYERS LONNIE A OR JUDY  
3193 TABOR ROAD  
WICKLIFFE KENTUCKY 42087

(E1) PARCEL ID: 37-14-01  
CONYERS GINA RENEE  
1575 WAYSIDE INN ROAD  
BARLOW KY 42024

(F1) PARCEL ID: 37-17-01  
KITZ PAUL G & SANDRA  
3781 TABOR ROAD  
BARLOW KY 42024

(G1) PARCEL ID: 37-17  
TURNER KENNY & LOREA  
3819 TABOR ROAD  
BARLOW KY 42024

(H1) PARCEL ID: 37-07  
PURCELL JUDITH  
ROBERT NEAL  
572 CEREDO ROAD  
BARLOW KY 42024



**EXISTING BUILDINGS**  
R = RESIDENCE  
B = BARN  
S = SHED  
G = GARAGE



PREPARED BY  
**POD**  
PROPERTY OF DESIGN  
11490 BLUEGRASS PARKWAY  
LOUISVILLE, KY 40299  
502-437-5282

PREPARED FOR:  
**KENTUCKY RSA 1 PARTNERSHIP**  
D/B/A  
**verizon**

**EXHIBIT**

REV	DATE	DESCRIPTION
A	3.11.20	PRELIM ISSUE
D	3.26.20	ISSUED AS FINAL

**SITE INFORMATION:**  
**EV BARLOW SE**  
WAYSIDE INN RD  
WICKLIFFE, KY 42087  
BALLARD COUNTY  
**TAX PARCEL NUMBER:**  
37-17-03  
**PROPERTY OWNER:**  
LOREA & KENNY TURNER  
3819 TABOR RD  
BARLOW, KY 42024  
**SOURCE OF TITLE:**  
DEED BOOK 77, PAGE 464

**POD NUMBER:** 19-42122  
**DRAWN BY:** JRS  
**CHECKED BY:** MEP  
**SURVEY DATE:** 6.28.19  
**PLAT DATE:** 3.11.20

**SHEET TITLE**  
**500' RADIUS AND ABUTTERS MAP**

**SHEET NUMBER:** (1 page)  
**B-2**

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



*Mark Patterson*  
MARK PATTERSON, PLS #3136  
03/26/2020  
DATE

**EXHIBIT L**  
**COPY OF COUNTY JUDGE/EXECUTIVE NOTICE**



1578 Highway 44 East, Suite 6  
P.O. Box 369  
Shepherdsville, KY 40165-0369  
Phone (502) 955-4400 or (800) 516-4293  
Fax (502) 543-4410 or (800) 541-4410

**VIA CERTIFIED MAIL**

Todd Cooper  
P. O. Box 276  
Wickliffe, KY 42087

RE: Notice of Proposal to Construct Wireless Communications Facility  
Kentucky Public Service Commission Docket No. 2020-00105  
Site Name: Barlow SE

Dear Judge Cooper:

Cellco Partnership d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at Wayside Inn Road, Wickliffe, KY 42087 (37° 01' 45.61" North latitude, 89° 00' 07.63" West longitude). The proposed facility will include a 290-foot tall antenna tower, plus a 5-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

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 2020-00105 in any correspondence sent in connection with this matter.

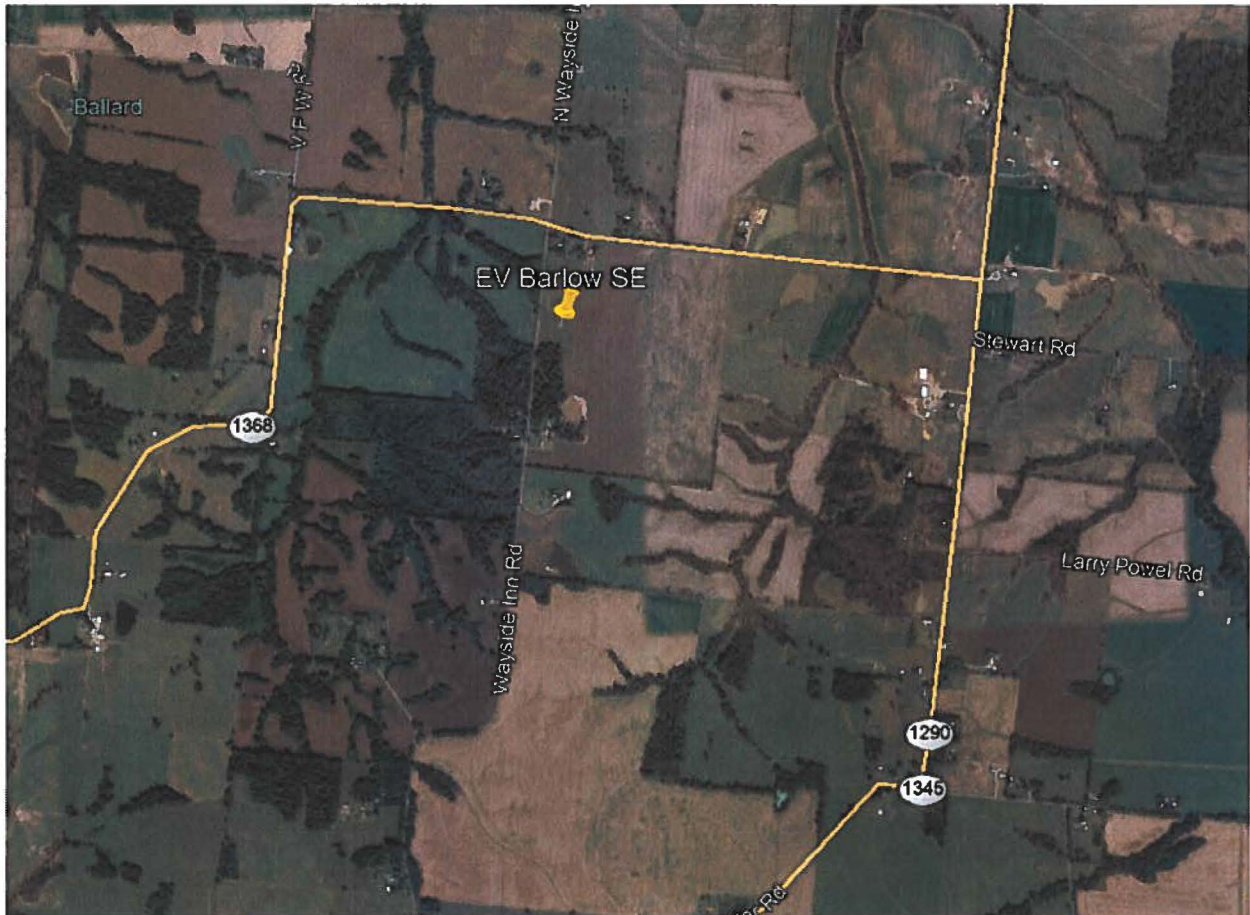
We have attached a map showing the site location for the proposed tower. Verizon Wireless' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the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

Sincerely,  
David A. Pike  
Attorney for Applicants

enclosure

### Driving Directions to Proposed Tower Site

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8. The site coordinates are
  - a. North  $37^{\circ} 01' 45.61''$
  - b. West  $89^{\circ} 00' 07.63''$



Prepared by:  
Chris Shouse  
Pike Legal Group PLLC  
1578 Highway 44 East, Suite 6  
P.O. Box 369  
Shepherdsville, KY 40165-3069  
Telephone: 502-955-4400 or 800-516-4293

**GENERAL NOTE:**

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4871 HINKLEVILLE ROAD  
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**(C1)** PARCEL ID: 37-17-04  
KNIGHT GARY & GERALDINE L  
1474 WAYSIDE INN ROAD  
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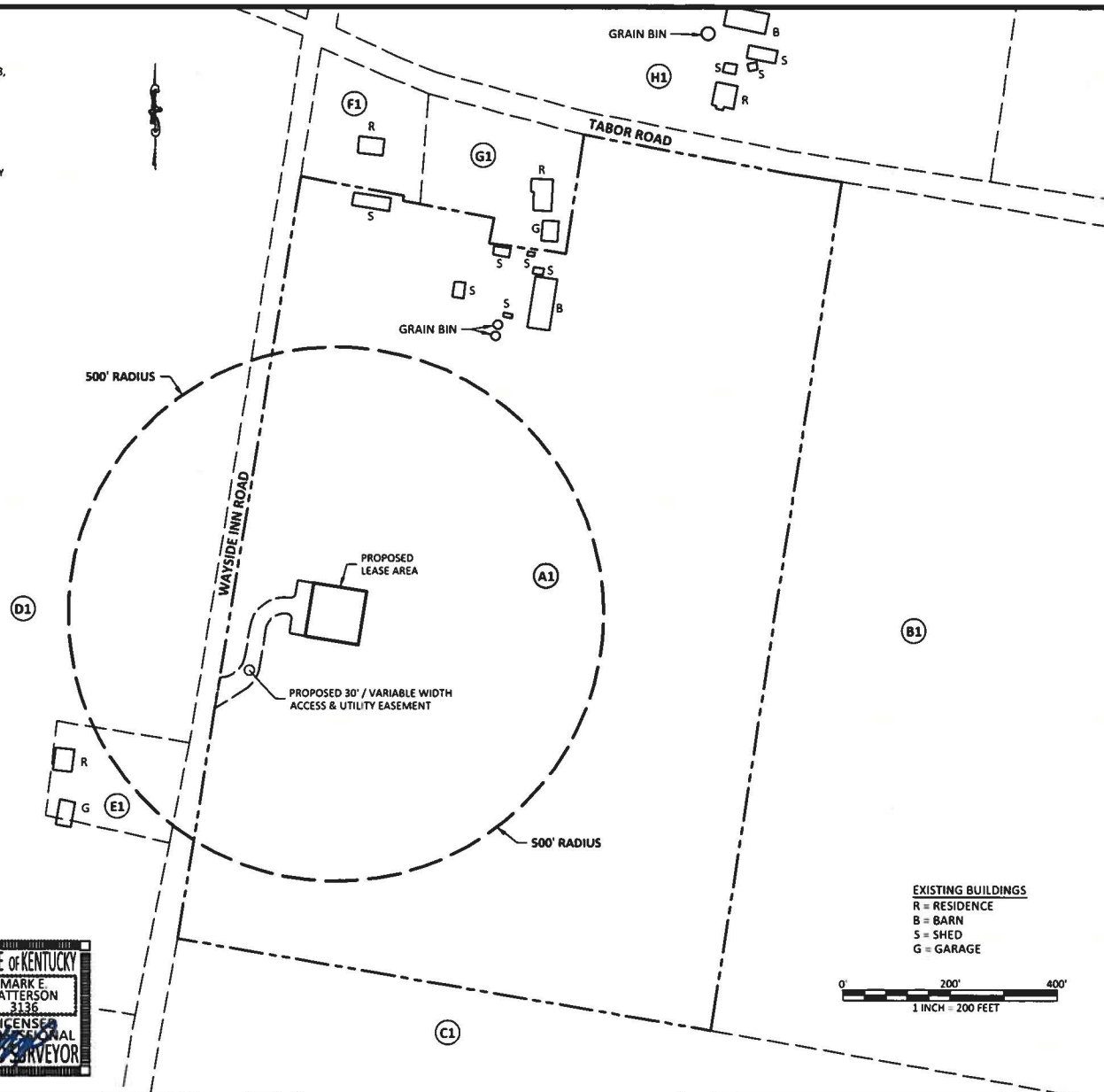
**(D1)** PARCEL ID: 37-14  
CONYERS LONNIE A OR JUDY  
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TURNER KENNY & LOREA  
3819 TABOR ROAD  
BARLOW KY 42024

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PURCELL JUDITH  
ROBERT NEAL  
572 CERODO ROAD  
BARLOW KY 42024



**EXISTING BUILDINGS**  
R = RESIDENCE  
B = BARN  
S = SHED  
G = GARAGE



PREPARED BY:  
**POD**  
PROPERTY OPERATIONS  
11400 BLUEGRASS PARKWAY  
LOUISVILLE, KY 40299  
502-487-5252

PREPARED FOR:  
**KENTUCKY RSA 1 PARTNERSHIP**  
D/B/A  
**verizon**

**EXHIBIT**

REV	DATE	DESCRIPTION
A	3.11.20	PRELIM ISSUE
0	3.26.20	ISSUED AS FINAL

**SITE INFORMATION:**  
**EV BARLOW SE**  
WAYSIDE INN RD  
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BALLARD COUNTY  
**TAX PARCEL NUMBER:**  
37-17-03  
**PROPERTY OWNER:**  
LOREA & KENNY TURNER  
3819 TABOR RD  
BARLOW, KY 42024  
**SOURCE OF TITLE:**  
DEED BOOK 77, PAGE 464

**POD NUMBER:** 19-42122  
**DRAWN BY:** JRS  
**CHECKED BY:** MEP  
**SURVEY DATE:** 6.28.19  
**PLAT DATE:** 3.11.20

**SHEET TITLE:**  
**500' RADIUS AND ABUTTERS MAP**

**SHEET NUMBER:** (1 page)  
**B-2**

**CERTIFICATE**

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*Mark Patterson*  
MARK PATTERSON, PLS #3136

03/26/2020  
DATE



**EXHIBIT M**  
**COPY OF POSTED NOTICES**  
**AND NEWSPAPER NOTICE ADVERTISEMENT**

**SITE NAME: BARLOW SE**  
**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.

Cellco Partnership d/b/a Verizon Wireless proposes 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 2020-00105 in your correspondence.

Cellco Partnership d/b/a Verizon Wireless proposes 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 2020-00105 in your correspondence.



1578 Highway 44 East, Suite 6  
P.O. Box 369  
Shepherdsville, KY 40165-0369  
Phone (502) 955-4400 or (800) 516-4293  
Fax (502) 543-4410 or (800) 541-4410

**VIA TELEPHONE: (270) 908-2001**

Advance Yeoman  
114 W. Kentucky Dr.  
La Center, KY 42056

RE: Legal Notice Advertisement  
Site Name: Barlow SE

Dear Staff:

Please publish the following legal notice advertisement in the next edition of *The Advance Yeoman*:

**NOTICE**

**Kentucky Cellco Partnership d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at Wayside Inn Road, Wickliffe, KY 42087 (37° 01' 45.61" North latitude, 89° 00' 07.63" 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 2020-00105 in any correspondence sent in connection with this matter.**

After this advertisement have been published, please forward a tearsheet copy, affidavit of publication, and invoice to Pike Legal Group, PLLC, P. O. Box 369, Shepherdsville, KY 40165. Please call me at (800) 516-4293 if you have any questions. Thank you for your assistance.

Sincerely,  
Chris Shouse  
Pike Legal Group, PLLC



**EXHIBIT N**  
**COPY OF RADIO FREQUENCY DESIGN SEARCH AREA**

# Verizon Issued SARF

