COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF	)	
CELLCO PARTNERSHIP D/B/A VERIZON WIRELESS	)	
AND HORVATH V. LLC FOR ISSUANCE OF A	)	
CERTIFICATE OF PUBLIC	)	CASE NO. 2022-00385
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 and Horvath V. LLC ("Co-Applicants"), by counsel, pursuant to (i) KRS §§278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submit this Application requesting issuance of a Certificate of Public Convenience and Necessity ("CPCN") from the Kentucky Public Service Commission ("PSC") to construct, maintain, and operate a Wireless Communications Facility ("WCF") to serve the customers of the Applicant with wireless communications services.

In support of this Application, Co-Applicants respectfully provide and states the following information:

1. The complete name and address of the Co-Applicants:

   a. Cellco Partnership, d/b/a Verizon Wireless, having a local address of 2421 Holloway Road, Louisville, KY 40299.

b. Horvath Towers V. LLC, having a local address of 306 West Main St., Suite 512, Frankfort, KY 40601.

2. Co-Applicant

a. Cellco Partnership, d/b/a Verizon Wireless is a Delaware general partnership and a copy of the Amended Certificate of Assumed Name is on file with the Secretary of State of Commonwealth of Kentucky is included as part of **Exhibit A-1.**

b. Horvath Towers V. LLC is a Delaware Limited Liability Company and a copy of the Certificate of Authority is on file with the Secretary of State of Commonwealth of Kentucky is included as part of **Exhibit A-2**.

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

4. The Co-Applicant, Cellco Partnership, d/b/a Verizon Wireless operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Applicant's FCC licenses to provide wireless services are attached to this Application or described as part of **Exhibit B**, and the facility will be constructed and operated in accordance with applicable FCC regulations.

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Co-Applicants'

services to an area currently not served or not adequately served by the Co-Applicants by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. A statement from Co-Applicant Cellco Partnership, d/b/a Verizon Wireless RF Design Engineer outlining said need is attached as **Exhibit Q-1**. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.

6. To address the above-described service needs, Applicant proposes to construct a WCF on the east side of Wayside Inn Road, Wickliffe, KY 42087 (North Latitude: (36° 01' 45.61", West Longitude 89° 00' 07.63"), 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 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 the Co-Applicants' radio electronics equipment and appurtenant equipment. The Co-Applicants' equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit C** and **Exhibit D**.

7. 7. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete along with a map showing the proposed location as well as the identified like facilities is attached as **Exhibit E**.

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

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

10. Co-Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Co-Applicants' antennas on an existing structure. When suitable towers or structures exist, Co-Applicants attempt to co-locate on existing structures such as communications towers or other structures capable of supporting Co-Applicants' 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 F**.

12. A copy of the Kentucky Airport Zoning Commission ("KAZC") Approval to construct the tower is attached as **Exhibit G**.

13. A geotechnical engineering report was performed at the WCF site by Power of Design, Louisville, KY, dated February 28, 2020, and is attached as **Exhibit H**. The name and address of the geotechnical engineering firm and the professional engineer registered in Kentucky who prepared the report are included as part of **Exhibit H and R**.

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

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

16. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced. The tower and foundation drawings for the proposed tower submitted as part of **Exhibit D** bear the signature and stamp of a professional engineer registered in the Commonwealth of Kentucky. All tower designs meet or exceed the minimum requirements of applicable laws and regulations.

17. The Construction Manager for the proposed facility is Vince Caprino and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibits C & R**.

18. As noted on the Survey attached as part of **Exhibit C**, the surveyor has determined that the tower site and access easement are not within any flood hazard area per

Flood Hazard Boundary Map, Community Panel Number 21007C0095C, Dated July 7. 2014.

19. **Exhibit C** includes a map drawn to an appropriate scale that shows the location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower (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 C**.

20. Co-Applicants have 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 will be 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 to be sent by certified mail to each landowner are attached as **Exhibit K** and **Exhibit L**, respectively.

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

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

23. The general area where the proposed facility is to be located is undeveloped and removed a significant distance from any residential structures. The nearest residential structure is 534' feet from the proposed tower site.

24. The process that was used by the Co-Applicant Cellco Partnership, d/b/a Verizon Wireless's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Co-Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Co-Applicant when searching for sites for its antennas that would provide the coverage

deemed necessary by the Co-Applicant. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit P**.

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, as set out and documented in the RF Design Engineers' Statement of Need and Propagation Maps attached as **Exhibit Q-1 and Q-2,** respectively. The proposed tower will expand and improve voice and data service for Verizon Wireless customers.

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:

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

WHEREFORE, 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,

Russell L. Brown
Clark, Quinn, Moses, Scott & Grahn, LLP
320 North Meridian Street, Suite 1100
Indianapolis, IN 46204
Phone: (317) 637-1321 / FAX: (317) 687-2344
Email: rbrown@clarkquinnlaw.com
Attorney for Cellco Partnership d/b/a Verizon Wireless

LIST OF EXHIBITS

A -1 & -2 Applicant Entity

B FCC License Documentation

C Site Development Plan:

500' Vicinity Map Legal Descriptions
Flood Plain Certification Site Plan
Vertical Tower Profile

D Tower and Foundation Design

E Competing Utilities Map

F FAA

G KAZC Approval

H Geotechnical Report

I Directions to WCF Site

J Copy of Real Estate Agreement

K Notification Listing

L Copy of Property Owner Notification

M Copy of County Judge/Executive notice

N Copy of Posted Notices

O Copy of Newspaper Legal Notice Advertisement

P Copy of Radio Frequency Design Search Area

Q -1 Copy of RF Design Engineer State of Need

Q -2 Copy of RF Design Propagation Maps

R List of Qualified Professionals

A

COMMONWEALTH OF KENTUCKY
TREY GRAYSON
SECRETARY OF STATE

Secretary of State
Received and Filed
08/21/2006 12:06:09 PM
Fee Receipt: $20.00

CERTIFICATE OF ASSUMED NAME

This certifies that the assumed name of

Verizon Wireless

(Name under which the business will be conducted)

has been adopted by See Addendum

(Full name of entity)

which is the "real name" of [YOU MUST CHECK ONE]

- [ ] a Domestic General Partnership
- [ ] a Domestic Registered Limited Liability Partnership
- [ ] a Domestic Limited Partnership
- [ ] a Domestic Business Trust
- [ ] a Domestic Corporation
- [ ] a Domestic Limited Liability Company
- [ ] a Joint Venture
- [x] a Foreign General Partnership
- [ ] a Foreign Registered Limited Liability Partnership
- [ ] a Foreign Limited Partnership
- [ ] a Foreign Business Trust
- [ ] a Foreign Corporation
- [ ] a Foreign Limited Liability Company

organized and existing in the state or country of Delaware, and whose address is

One Verizon Way (Street address) Basking Ridge (City) NJ (State) 07920 (Zip Code)

The certificate of assumed name is executed by

NYNEX PCS Inc.

Jane A. Schapker (Signature)

Jane A. Schapker-Assistant Secretary (Print name and title)

June 15, 2006 (Date)

(Signature)

(Print name and title)

(Date)

SOS-228 (7/96) (See attached sheet for instructions)

0641227.07 dcornish AMD

Alison Lundergan Grimes
Kentucky Secretary of State
Received and Filed:
1/22/2013 1:43 PM
Fee Receipt: $20.00

COMMONWEALTH OF KENTUCKY
ELAINE N. WALKER, 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:

Street Address or Post Office Box Numbers	City	State	Zip
One Verizon Way	Basking Ridge	NJ	07920

4. The principal office address is hereby changed to:

Street Address or Post Office Box Numbers	City	State	Zip

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 Incorporated

Signature of Applicant	Printed Name	Title	Date
Jana A Schepker	Jana A. Schepker	Assistant Secretary	1/21/2012

(04/11)

Addendum

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

General Partners of Cellco Partnership	***Address***
Bell Atlantic Mobile Systems LLC	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless Incorporated	One Verizon Way Basking Ridge, NJ 07920
PCS Nucleus, L.P.	Denver Place South Tower 999-18th Street, Suite 1750 Denver, CO 80202
JV PartnerCo, LLC	Denver Place South Tower 999-18th Street, Suite 1750 Denver, CO 80202

COMMONWEALTH OF KENTUCKY
ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

0988137.06 amcray ADD

Alison Lundergan Grimes
Kentucky Secretary of State
Received and Filed:
6/13/2017 1:26 PM
Fee Receipt: $90.00

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

Certificate of Authority
(Foreign Business Entity)

FBE

Pursuant to the provisions of KRS 14A and KRS 271B, 273, 274,275, 362 and 386 the undersigned hereby applies for authority to transact business in Kentucky on behalf of the entity named below and, for that purpose, submits the following statements:

1. The entity is a : ☐ profit corporation (KRS 271B) ☐ nonprofit corporation (KRS 273) ☐ professional service corporation (KRS 274)
☐ business trust (KRS 386). ☒ limited liability company (KRS 275) ☐ professional limited liability company (KRS 275)
☐ limited partnership (KRS 362). ☐ ltd cooperative assn. (KRS) ☐ statutory trust
☐ non-profit llc (KRS 275) ☐ cooperative assn. (KRS)

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

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

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

5. The date of organization is 6/21/2016 and the period of duration is _____.
(If left blank, the period of duration is considered perpetual.)

6. The mailing address of the entity's principal office is

312 W. Colfax Ave.,	South Bend	IN	46601
Street Address	City	State	Zip Code

7. The street address of the entity's registered office in Kentucky is

306 West Main Street - Suite 512	Frankfort	KY	40601
Street Address (No P.O. Box Numbers)	City	State	Zip Code

and the name of the registered agent at that office is CT Corporation System.

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

Name	Street or P.O. Box	City	State	Zip Code
Jacqueline L. Stout	312 West Colfax Ave.	South Bend	IN	46601
F. Howard Mandel	86 West Street	Chagrin Falls	OH	44022

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

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

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

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

13. This application will be effective upon filing, 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 _____.

Please indicate the Kentucky county in which your business operates:
County: Anderson & Jefferson.

To complete the following, please shade the box completely.

Please indicate the size of your business:
☑ Small (Fewer than 50 employees)
☐ Large (50 or more employees)

Please indicate whether any of the following make up more than fifty percent (50%) of your business ownership:
☐ Women-Owned ☐ Veteran Owned ☐ Minority Owned

Please indicate which of the following best describes your business:
☐ Agriculture ☐ Mining ☐ Services ☐ Construction
☐ Wholesale Trade ☐ Retail Trade ☐ Manufacturing ☐ Finance, Insurance, Real Estate
☐ Public Administration ☑ Transportation, Communications, Electric, Gas, Sanitary Services
☐ Other

Signature of Authorized Representative	Jacqueline L. Stout, Member	6-6-17
	Printed Name & Title	Date

I, CT Corporation System, consent to serve as the registered agent on behalf of the business entity.
Type/Print Name of Registered Agent

Signature of Registered Agent	CT Corporation System	Assistant Secretary	06/7/2017
	Printed Name	Title	Date

(05/17)

LARP

0988137
Michael G. Adams
KY Secretary of State
Received and Filed
1/10/2020 2:27:56 PM
Fee receipt: $15.00

Commonwealth of Kentucky
Michael G. Adams, Secretary of St

Michael G. Adams
Secretary of State
P. O. Box 1150
Frankfort, KY 40602-1150
(502) 564-3490
http://www.sos.ky.gov

Annual Report
Online Filing

ARP

Company:	HORVATH TOWERS V, LLC
Company ID:	0988137
State of origin:	Delaware
Formation date:	6/13/2017 12:00:00 AM
Date filed:	1/10/2020 2:27:56 PM
Fee:	$15.00

Principal Office

312 W. COLFAX AVE.
SOUTH BEND, IN 46601

Registered Agent Name/Address

CT CORPORATION SYSTEM
306 WEST MAIN STREET
SUITE 512
FRANKFORT, KY 40601

Members/Managers

Manager	Jacqueline Stout	312 W Colfax Ave, South Bend IN 46601

Business type:	Communications

Signatures

Signature	Matthew C. Deputy, Esq.
Title	Attorney-in-fact

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION
ANTENNA STRUCTURE REGISTRATION

OWNER: Kentucky RSA No. 1 Partnership

FCC Registration Number (FRN): 0001836709

ATTN: Network Regulatory **Kentucky RSA No. 1 Partnership** **5055 North Point Pkwy** **NP2NE Network Engineering** **Alpharetta, GA 30022**	**Antenna Structure Registration Number** **1313667** **Issue Date** **02/05/2020**
Location of Antenna Structure **TBD Wayside Inn Road - 2505006** **Wickliffe, KY 42087** **County: BALLARD**	**Ground Elevation (AMSL)** **135.0 meters** **Overall Height Above Ground (AGL)** **89.9 meters**
Latitude 37- 01- 45.6 N **Longitude** 089- 00- 07.6 W **NAD83**	**Overall Height Above Mean Sea Level (AMSL)** **224.9 meters**
Center of Array Coordinates **N/A**	**Type of Structure** **LTOWER** **Lattice Tower**
Painting and Lighting Requirements: **FAA Chapters 4, 8, 12** **Paint and Light in Accordance with FAA Circular Number 70/7460-1L** **Conditions:**	

This registration is effective upon completion of the described antenna structure and notification to the Commission. **YOU MUST NOTIFY THE COMMISSION WITHIN 24 HOURS OF COMPLETION OF CONSTRUCTION OR CANCELLATION OF YOUR PROJECT, please file FCC Form 854.** To file electronically, connect to the antenna structure registration system by pointing your web browser to http://wireless.fcc.gov/antenna. Electronic filing is recommended. You may also file manually by submitting a paper copy of FCC Form 854. Use purpose code "NT" for notification of completion of construction; use purpose code "CA" to cancel your registration.

The Antenna Structure Registration is not an authorization to construct radio facilities or transmit radio signals. It is necessary that all radio equipment on this structure be covered by a valid FCC license or construction permit.

You must immediately provide a copy of this Registration to all tenant licensees and permittees sited on the structure described on this Registration (although not required, you may want to use Certified Mail to obtain proof of receipt), and *display* your Registration Number at the site. See reverse for important information about the Commission's Antenna Structure Registration rules.

You must comply with all applicable FCC obstruction marking and lighting requirements, as set forth in Part 17 of the Commission's Rules (47 C.F.R. Part 17). These rules include, but are not limited to:

Posting the Registration Number: The Antenna Structure Registration Number must be displayed in a conspicuous place so that it is readily visible near the base of the antenna structure. Materials used to display the Registration Number must be weather-resistant and of sufficient size to be easily seen at the base of the antenna structure. Exceptions exist for certain historic structures. See 47 C.F.R. 17.4(g)-(h).

Inspecting lights and equipment: The obstruction lighting must be observed at least every 24 hours in order to detect any outages or malfunctions. Lighting equipment, indicators, and associated devices must be inspected at least once every three months.

Reporting outages and malfunctions: When any top steady-burning light or a flashing light (in any position) burns out or malfunctions, the outage must be reported to the nearest FAA Flight Service Station, unless corrected within 30 minutes. The FAA must again be notified when the light is restored. The owner must also maintain a log of these outages and malfunctions.

Maintaining assigned painting: The antenna structure must be repainted as often as necessary to maintain good visibility.

Complying with environmental rules: If you certified that grant of this registration would not have a significant environmental impact, you must nevertheless maintain all pertinent records and be ready to provide documentation supporting this certification and compliance with the rules, in the event that such information is requested by the Commission pursuant to 47 C.F.R. 1.1307(d).

Updating information: The owner must notify the FCC of proposed modifications to this structure; of any change in ownership; or, within 30 days of dismantlement of the structure.

You can find additional information at *[insert link]* or by calling (877) 480-3201 (TTY 717-338-2824).

HORVATH COMMUNICATIONS

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

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

PROJECT SUMMARY

HORVATH COMMUNICATIONS SITE
BARLOW SE
SITE #: HV1388

VERIZON WIRELESS SITE
EV BARLOW SE
PROJECT#: 20181808888
LOCATION CODE: 2505006

SITE ADDRESS
WAYSIDE INN RD
WICKLIFFE, KY 42087
BALLARD COUNTY
E911 ADDRESS: TBD

TOWER OWNER
HORVATH COMMUNICATIONS
312 W COLFAX AVE
SOUTH BEND, IN 46601
CONTACT: JEFF DELAUDER
OFFICE: (574) 237-0464
MOBILE: (517) 294-9562
E-MAIL: JDELAUDER@HORVATHCOMMUNICATIONS.COM

PROPERTY OWNER
LOREA & KENNY TURNER
5874 HINKLEVILLE RD
LACENTER, KY 42056
CONTACT: LOREA TURNER
PHONE: (270) 836-7061
E-MAIL: LORITURNER@GMAIL.COM

POLICE
BALLARD COUNTY SHERIFF
437 OHIO ST
WICKLIFFE, KY 42087
PHONE: (270) 335-3561

FIRE
LACENTER FIRE DEPARTMENT
175 E 4TH ST
LACENTER, KY 42056
PHONE: (270) 665-9123

GENERAL INFORMATION
LATITUDE : 37° 01' 45.61" N
LONGITUDE : 89° 00' 07.63" W
NAD83
ELEVATION : 443.00' AMSL
NAVD88

HORVATH COMMUNICATIONS LEASE AREA
100'-0" X 100'-0"
(10,000 SF)

PROJECT TOTAL DISTURBED AREA
COMPOUND: (10,000 SF) = (0.23 ACRE)
ACCESS DRIVE: (11,078 SF) = (0.25 ACRE)
GROSS AREA: (21,078 SF) = (0.48 ACRE)

PROJECT DESCRIPTION

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:

HORVATH COMMUNICATIONS SCOPE:
- INSTALL A NEW 290' SELF SUPPORT TOWER w/ 5' LIGHTNING ROD (TOTAL 295')
- INSTALL A NEW TOWER FOUNDATION SYSTEM
- INSTALL A NEW 75'X75' FENCED GRAVEL COMPOUND
- INSTALL A NEW SITE H-FRAME
- INSTALL NEW TOWER LIGHTING AND TOWER LIGHTING CONTROLLER (SUPPLIED BY ITL, LLC)
- INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE H-FRAME
- INSTALL A NEW GRAVEL ACCESS DRIVE
- REMOVE ±48' OF EXISTING FENCE
- INSTALL ±94' OF FENCE TO MATCH EXISTING
- INSTALL 14'-0" CATTLE GATE
- NO WATER OR SEWAGE SERVICES RUN TO SITE
- INSTALL NEW TOWER & SITE GROUNDING SYSTEM
- INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM
- INSTALL A NEW 11'-6"X19'-6" CONCRETE EQUIPMENT / GENERATOR PAD
- INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP WITHIN VZW EQUIPMENT PAD TO UTILITY H-FRAME
- INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC ENCLOSURE STUB-UPS TO EQUIPMENT ENCLOSURE STUB-UPS WITHIN VZW EQUIPMENT PAD
- INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME LIT FIBER LOCATION
- 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
- 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
- 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
- PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY

VERIZON WIRELESS SCOPE (VZW GC):
- INSTALL A NEW 11'-6"x14'-9" PREFABRICATED CANOPY ON EXISTING CONCRETE PAD FOUNDATION
- INSTALL NEW DIESEL GENERATOR ON EXISTING CONCRETE FOUNDATION
- INSTALL VZW ICE BRIDGE AND FOUNDATIONS
- INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
- INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT
- INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES
- INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
- INSTALL CIRCUITS FROM VZW ILC TO VZW EQUIPMENT ENCLOSURES
- INSTALL NEW OUTDOOR OVP AND CABLING H-FRAME SUPPORT
- INSTALL (2) 1-1/4" & (1) 1" INNERDUCTS WITH PULL TAPES AND TRACER WIRE WITHIN OWNER 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 AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

BUILDING CODE	2018 KENTUCKY BUILDING CODE
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)

ACCESSIBILITY REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2009 IBC BUILDING CODE.

APPLICABLE CODES

CONSULTANT TEAM

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: 2900 IRVIN COBB DR
PADUCAH, KY 42003
CONTACT: TOM DILLWORTH
PHONE: (270) 556-0112
EMAIL: TOM.DILLWORTH@JPENERGY.COM
SO# 4395846

VICINITY MAP

LOCATION MAP

AERIAL

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
B-1 TO B-1.1	SITE SURVEY
B-2	500' RADIUS & ABUTTERS MAP
R-1	REVISION LOG
TOWER ELEVATION	
TE-1	TOWER ELEVATION
CIVIL	
C-1	OVERALL SITE PLAN w/AERIAL OVERLAY
C-1A	OVERALL SITE PLAN w/DISTANCE TO PROPERTY LINES
C-1B	DISTANCE TO RESIDENTIAL STRUCTURE
C-3	DETAILED SITE PLAN
C-4	DIMENSIONED SITE PLAN

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

HORVATH COMMUNICATIONS

312 WEST COLFAX AVE
SOUTH BEND, IN 46601

09/12/2022

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
1	8.26.22	UPDATED CURRENT

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

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.)

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

LAND SURVEYOR'S CERTIFICATE

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

06/19/2020

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

SITE SURVEY

REV.	DATE	DESCRIPTION
A	7.8.19	PRELIM ISSUE
B	8.2.19	TITLE REVIEW
C	1.30.20	ADDITIONAL TOPO
0	6.19.20	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
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

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
1	8/26/2022	ALL SHEETS	UPDATED TO CURRENT STANDARDS & RFDS

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

HORVATH COMMUNICATIONS
312 WEST COLFAX AVE
SOUTH BEND, IN 46601

09/12/2022

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
1	8.26.22	UPDATED CURRENT

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

DigiSigner Document ID: bd4ed2ce-d159-4393-901a-d5974a918c0d

OVERALL SITE PLAN W/AERIAL OVERLAY

SCALE: 1" = 30'

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

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

HORVATH COMMUNICATIONS
312 WEST COLFAX AVE
SOUTH BEND, IN 46601

09/12/2022

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BARLOW SE
WAYSIDE INN RD
WICKLIFFE, KY 42087
BALLARD COUNTY

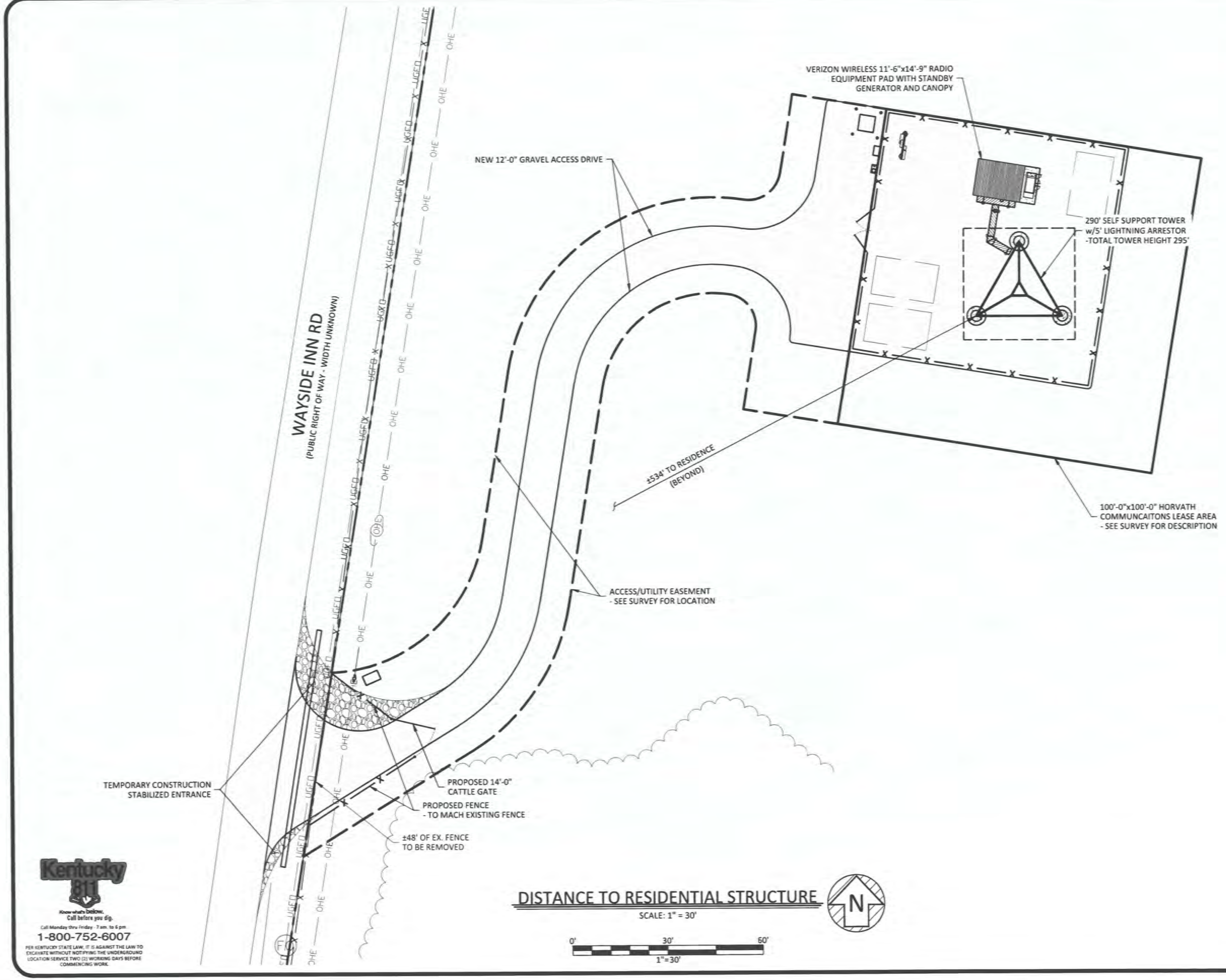
HORVATH SITE NUMBER:
HV1388

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



DISTANCE TO RESIDENTIAL STRUCTURE

SCALE: 1" = 30'

0' 30' 60'

1"=30'

Kentucky 811
Know what's below. Call before you dig.
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MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER

EN PERMIT: 3594

ZONING DRAWINGS

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WAYSIDE INN RD
WICKLIFFE, KY 42087
BALLARD COUNTY

HORVATH SITE NUMBER:
HV1388

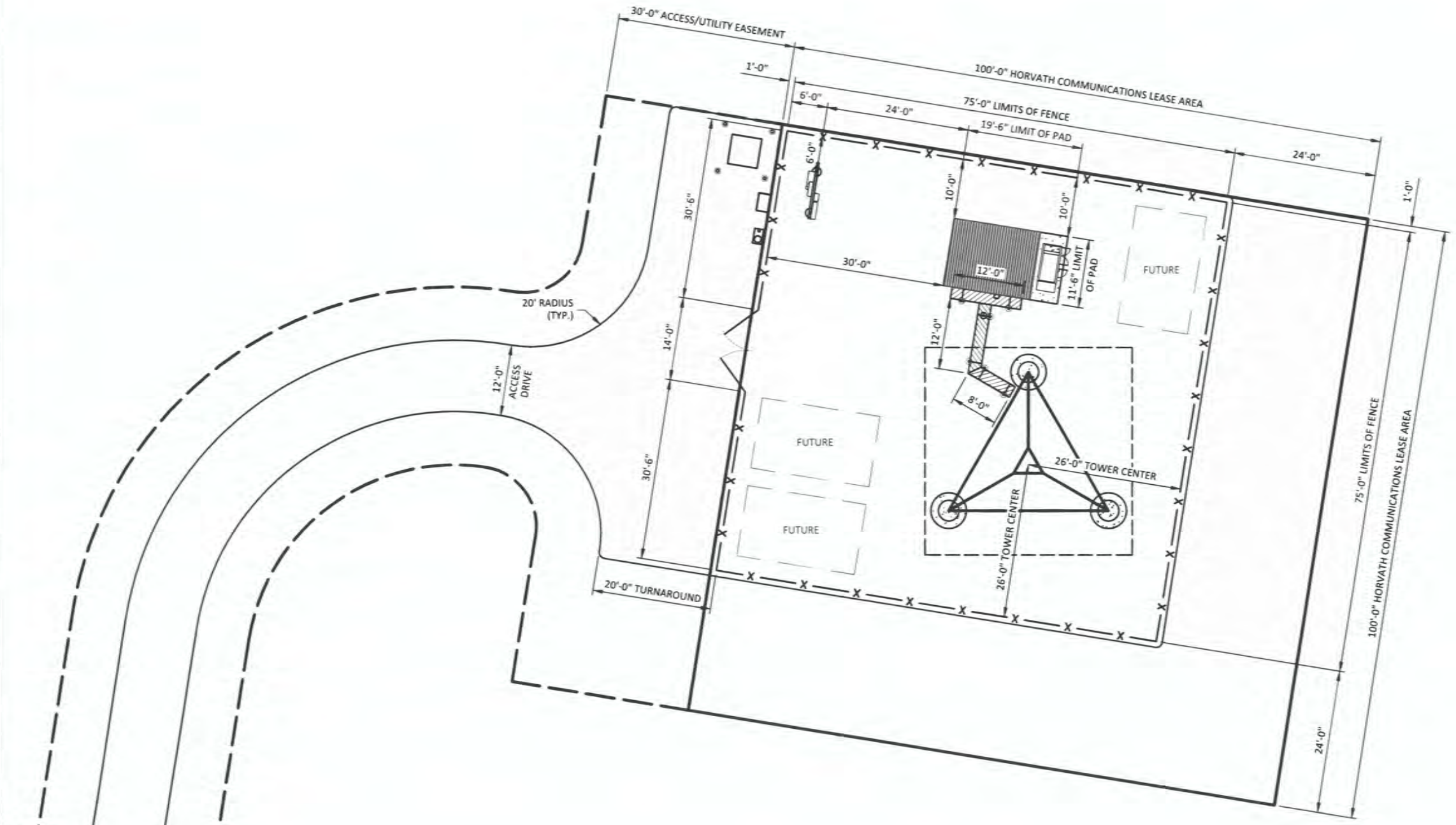
VERIZON WIRELESS SITE NAME:
EV BARLOW SE

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

SHEET TITLE:
DISTANCE TO RESIDENTIAL STRUCTURE

SHEET NUMBER:
C-1B

DigiSigner Document ID: bd4ed2ce-d159-4393-901a-d5974a918c0d



Kentucky 811
Know what's below. Call before you dig.
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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

0' 20' 40'
1"=20'

DIMENSIONED SITE PLAN
SCALE: 1" = 20'

N

LEGEND
PROPOSED LEASE LINE
PROPOSED EASEMENT
PROPOSED GRAVEL
PROPOSED FENCE

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
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HORVATH COMMUNICATIONS
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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

Sabre Industries™
INNOVATION DELIVERED

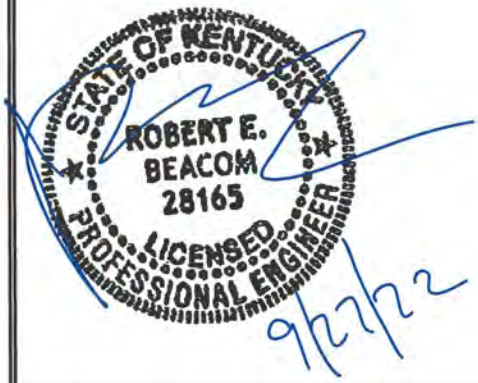
Structural Design Report

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

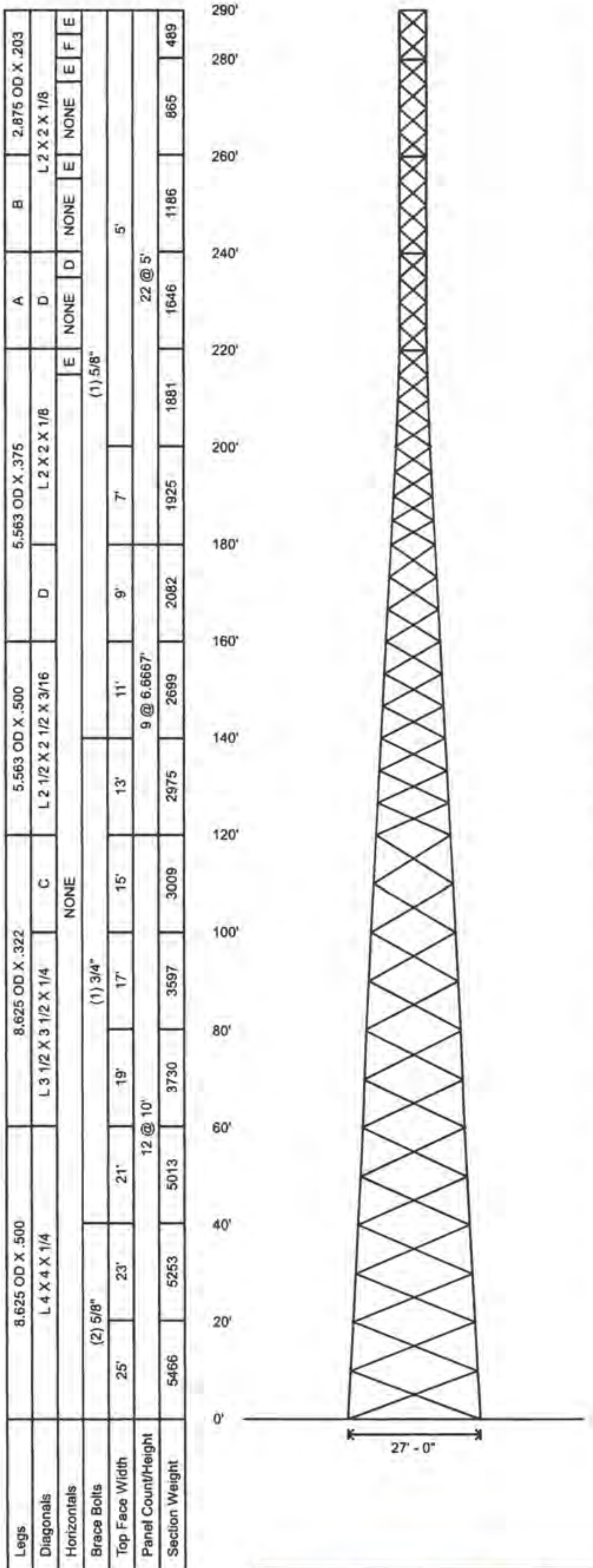
Prepared for: HORVATH COMMUNICATIONS INC
by: Sabre Industries ™

Job Number: 457708

September 27, 2022



Digitally Signed By Robert Beacom
DN: c=US, st=Texas, l=Alvarado, o=SABRE INDUSTRIES, INC., cn=Robert Beacom, email=rebeacom@sabreindustries.com Date: 2022.09.27 09:01:53



Design Criteria - ANSI/TIA-222-G

ASCE 7-16 Ultimate Wind Speed (No Ice)	106 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Structure Class	II
Risk Category	II
Exposure Category	C
Topographic Category	1
Seismic Importance Factor, Ie	1.00
0.2-sec Spectral Response, Ss	1.791 g
1-sec Spectral Response, S1	0.595 g
Site Class	C
Seismic Design Category	D
Basic Seismic Force-Resisting System	Telecommunication Tower (Truss: Steel)

Base Reactions - Wind/Ice

Total Foundation		Individual Footing	
Shear (kips)	53.1	Shear (kips)	33.21
Axial (kips)	143.9	Compression (kips)	395
Moment (ft-kips)	8772	Uplift (kips)	342

Base Reactions - Seismic

Total Foundation		Individual Footing	
Shear (kips)	6.7	Shear (kips)	6.46
Axial (kips)	82.41	Compression (kips)	88
Moment (ft-kips)	1408	Uplift (kips)	49

Material List

Display	Value
A	4.500 OD X .337
B	3.500 OD X .300
C	L 3 X 3 X 3/16
D	L 2 X 2 X 3/16
E	L 2 X 2 X 1/8
F	NONE

Notes

1) All legs are A500 (50 ksi Min. Yield).
2) All braces are A572 Grade 50.
3) All brace bolts are A325-X.
4) The tower model is S3TL Series HD1.
5) Transmission lines are to be attached to standard 12 hole waveguide ladders with stackable hangers.
6) Azimuths are relative (not based on true north).
7) Foundation loads shown are maximums.
8) All unequal angles are oriented with the short leg vertical.
9) Weights shown are estimates. Final weights may vary.
10) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2018 Kentucky Building Code.
11) Tower Rating: 99.34%

Sabre Industries
INNOVATION DELIVERED
Sabre Industries
7101 Southbridge Drive
P.O. Box 658
Sioux City, IA 51102-0658
Phone: (712) 258-6690
Fax: (712) 279-0814

Job:	457708
Customer:	HORVATH COMMUNICATIONS INC
Site Name:	Barlow, KY HV1388
Description:	290' S3TL
Date:	9/27/2022 By: REB

Designed Appurtenance Loading

Elev	Description	Tx-Line
285	(1) 208 sq. ft. EPA 4000# (no ice)	(6) 1 5/8"

Elev	Description	Tx-Line
225	(1) 278 sq. ft. EPA 6000# (no ice)	(3) 1 5/8"

Sabre Industries
INNOVATION DELIVERED

Sabre Industries
7101 Southbridge Drive
P.O. Box 658
Sioux City, IA 51102-0658
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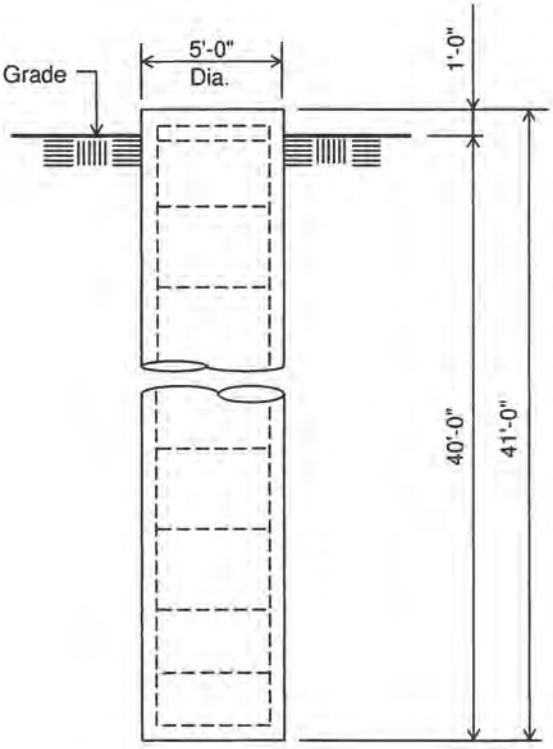
Job:	**457708**
Customer:	HORVATH COMMUNICATIONS INC
Site Name:	Barlow, KY HV1388
Description:	290' S3TL
Date:	9/27/2022 By: REB

Sabre Industries
INNOVATION DELIVERED

No.: 457708
Date: 09/27/22
By: REB

Customer: HORVATH COMMUNICATIONS INC
Site: Barlow, KY HV1388

290 ft. Model S3TL Series HD1 Self Supporting Tower



ELEVATION VIEW
(29.8 cu. yds.)
(3 REQUIRED; NOT TO SCALE)

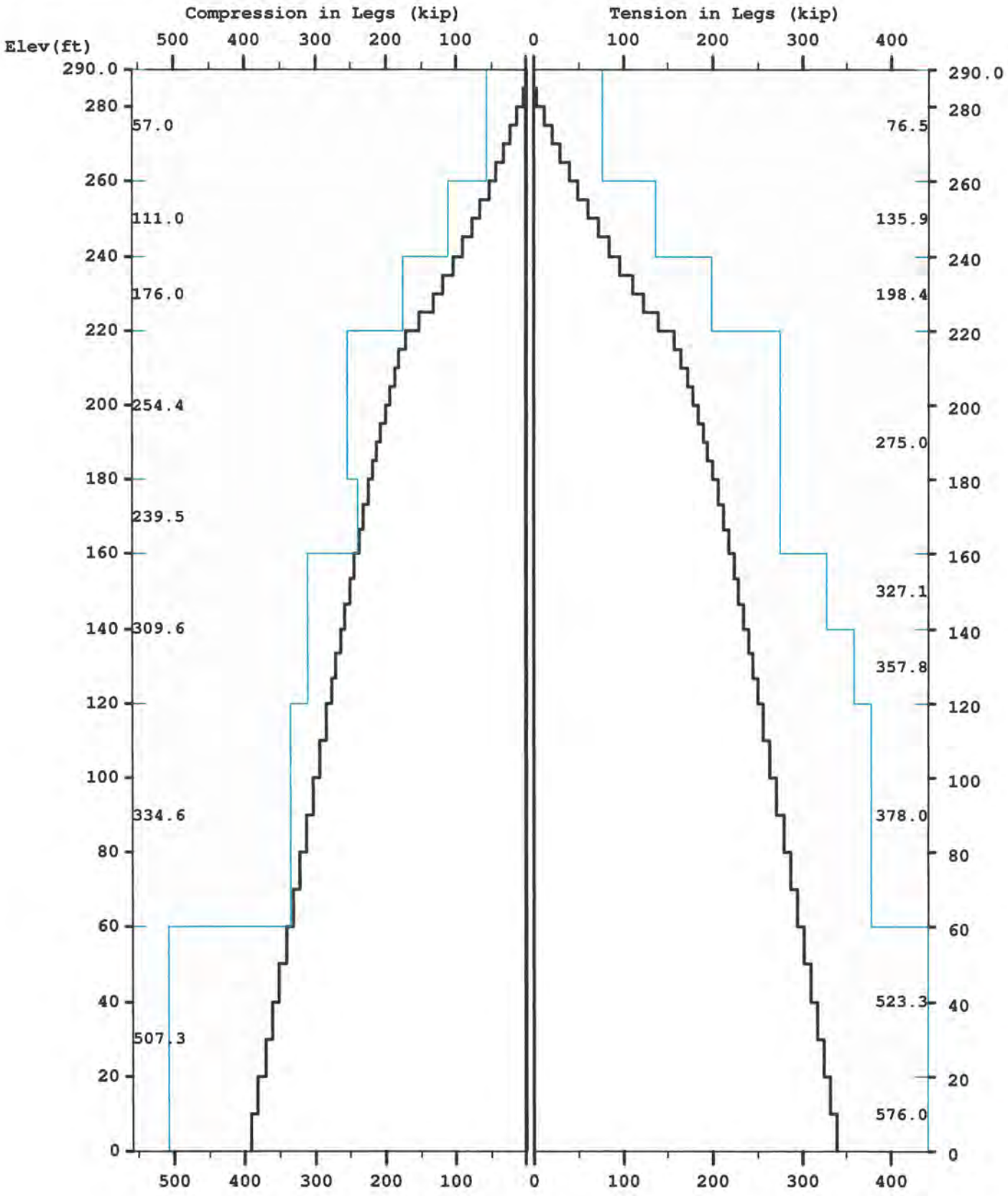
Notes:

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) = 342.00
   Factored download (kips) = 395.00
   Factored shear (kips) = 33.00
8) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

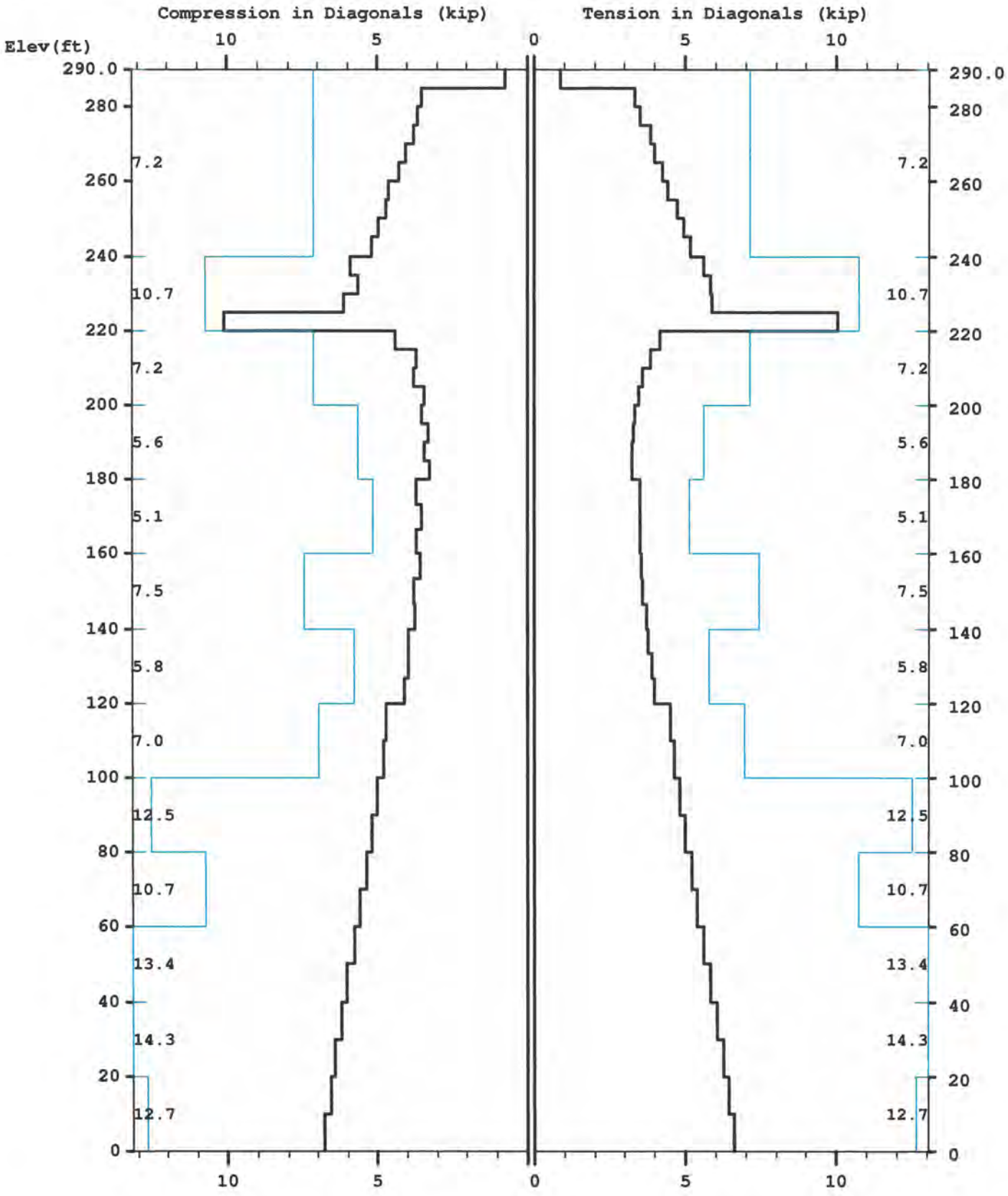
Rebar Schedule per Pier	
Pier	(16) #10 vertical rebar w/ #4 rebar ties, two (2) within top 5" of pier then 12" C/C
Anchor Bolts per Leg	
(6) 1.5" dia. x 78" F1554-105 on a 13.25" B.C. w/ 9.5" max. projection above concrete.	

7101 Southbridge Dr - P.O. Box 658 - Sioux City, IA 51102-0658 - Phone 712.258.6690 - Fax 712.258.8250

Maximum

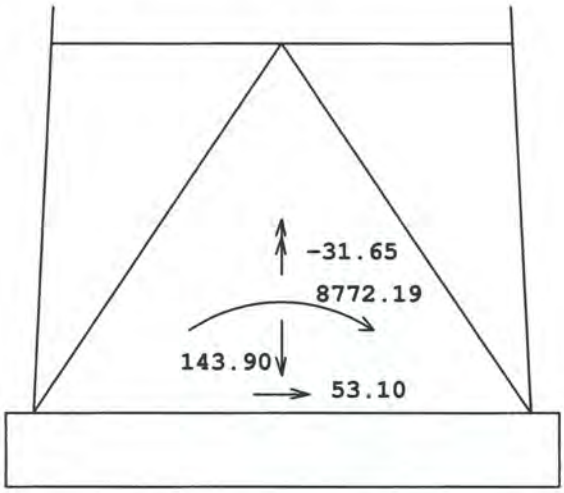

Compression in Legs (kip)
Tension in Legs (kip)
Elev(ft)
500 400 300 200 100 0
100 200 300 400
290.0
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
57.0
111.0
176.0
254.4
239.5
309.6
334.6
507.3
76.5
135.9
198.4
275.0
327.1
357.8
378.0
523.3
576.0

Maximum

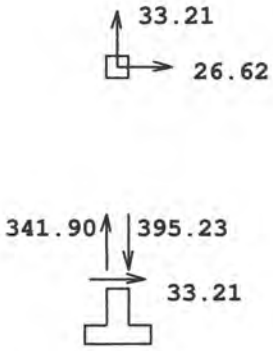

Compression in Diagonals (kip)
Tension in Diagonals (kip)
Elev(ft)
290.0
280
260
240
220
200
180
160
140
120
100
80
60
40
20
0
10
5
0
5
10
7.2
10.7
7.2
5.6
5.1
7.5
5.8
7.0
12.5
10.7
13.4
14.3
12.7

Maximum

TOTAL FOUNDATION LOADS (kip, ft-kip)



INDIVIDUAL FOOTING LOADS (kip)



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	260.00	290.00	1.704	0.947	29000.	0.0000117
LE	240.00	260.00	3.016	0.947	29000.	0.0000117
LE	220.00	240.00	4.407	0.947	29000.	0.0000117
LE	160.00	220.00	6.111	0.947	29000.	0.0000117
LE	120.00	160.00	7.952	0.947	29000.	0.0000117
LE	60.00	120.00	8.399	0.947	29000.	0.0000117
LE	0.00	60.00	12.763	0.947	29000.	0.0000117
DI	240.00	290.00	0.484	0.626	29000.	0.0000117
DI	220.00	240.00	0.715	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	120.00	160.00	0.902	0.626	29000.	0.0000117
DI	100.00	120.00	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	0.484	0.626	29000.	0.0000117
HO	235.00	240.00	0.715	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 COMP kip	LEGS TENS kip	DIAGONALS COMP kip	DIAGONALS TENS kip	HORIZONTALS COMP kip	HORIZONTALS TENS kip	INT BRACING COMP kip	INT BRACING TENS kip
285.0	290.0	57.04	76.50	7.16	7.16	5.82	5.82	0.00	0.00
280.0	285.0	57.04	76.50	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	110.98	135.90	7.16	7.16	5.82	5.82	0.00	0.00
240.0	255.0	110.98	135.90	7.16	7.16	0.00	0.00	0.00	0.00
235.0	240.0	175.98	198.45	10.74	10.74	8.46	8.46	0.00	0.00

220.0	235.0	175.98	198.45	10.74	10.74	0.00	0.00	0.00	0.00
215.0	220.0	254.38	274.95	7.16	7.16	5.82	5.82	0.00	0.00
200.0	215.0	254.38	274.95	7.16	7.16	0.00	0.00	0.00	0.00
180.0	200.0	254.38	274.95	5.63	5.63	0.00	0.00	0.00	0.00
160.0	180.0	239.46	274.95	5.14	5.14	0.00	0.00	0.00	0.00
140.0	160.0	309.64	327.10	7.46	7.46	0.00	0.00	0.00	0.00
120.0	140.0	309.64	357.75	5.78	5.78	0.00	0.00	0.00	0.00
100.0	120.0	334.65	378.00	6.98	6.98	0.00	0.00	0.00	0.00
80.0	100.0	334.65	378.00	12.53	12.53	0.00	0.00	0.00	0.00
60.0	80.0	334.65	378.00	10.73	10.73	0.00	0.00	0.00	0.00
40.0	60.0	507.33	523.32	13.43	13.43	0.00	0.00	0.00	0.00
20.0	40.0	507.33	523.32	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 5 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° (1.2 D + 1.0 Wo) PL - 0

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	6.53	4.80	0.00	0.00
C	225.0	0.00	0.0	0.0	8.30	7.20	0.00	0.00
D	290.0	0.00	180.0	0.0	0.06	0.05	0.00	0.00
D	285.0	0.00	180.0	0.0	0.06	0.05	0.00	0.00
D	285.0	0.00	42.0	0.0	0.09	0.05	0.03	0.05
D	260.0	0.00	42.0	0.0	0.09	0.05	0.03	0.05
D	260.0	0.00	42.0	0.0	0.10	0.07	0.03	0.05
D	240.0	0.00	42.0	0.0	0.09	0.07	0.03	0.05
D	240.0	0.00	42.0	0.0	0.10	0.10	0.03	0.05
D	225.0	0.00	42.0	0.0	0.09	0.09	0.03	0.05
D	225.0	0.00	42.0	0.0	0.10	0.10	0.03	0.06
D	220.0	0.00	42.0	0.0	0.10	0.10	0.03	0.06
D	220.0	0.00	34.2	0.0	0.11	0.12	0.04	0.06
D	205.0	0.00	38.7	0.0	0.11	0.11	0.04	0.06
D	205.0	0.00	40.9	0.0	0.11	0.11	0.03	0.06
D	200.0	0.00	40.9	0.0	0.11	0.11	0.03	0.06
D	200.0	0.00	27.9	0.0	0.11	0.11	0.05	0.06
D	180.0	0.00	32.4	0.0	0.12	0.12	0.04	0.06
D	180.0	0.00	23.5	0.0	0.11	0.12	0.06	0.06
D	160.0	0.00	26.4	0.0	0.12	0.13	0.05	0.06
D	160.0	0.00	20.2	0.0	0.12	0.16	0.06	0.06
D	140.0	0.00	22.3	0.0	0.13	0.16	0.06	0.06
D	140.0	0.00	17.6	0.0	0.13	0.17	0.07	0.05
D	120.0	0.00	19.2	0.0	0.13	0.17	0.07	0.05
D	120.0	0.00	15.8	0.0	0.13	0.17	0.08	0.05
D	100.0	0.00	16.7	0.0	0.13	0.17	0.08	0.05
D	100.0	0.00	14.2	0.0	0.14	0.20	0.09	0.05
D	80.0	0.00	14.9	0.0	0.14	0.21	0.09	0.05
D	80.0	0.00	12.9	0.0	0.14	0.21	0.10	0.05
D	60.0	0.00	13.5	0.0	0.14	0.21	0.09	0.05
D	60.0	0.00	11.8	0.0	0.14	0.29	0.11	0.04
D	40.0	0.00	12.3	0.0	0.15	0.29	0.10	0.05
D	40.0	0.00	10.8	0.0	0.14	0.30	0.12	0.04
D	20.0	0.00	11.3	0.0	0.14	0.30	0.11	0.04
D	20.0	0.00	10.0	0.0	0.13	0.30	0.13	0.03
D	0.0	0.00	10.4	0.0	0.13	0.31	0.12	0.04

LOADING CONDITION k

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

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	6.53	3.60	0.00	0.00
C	225.0	0.00	0.0	0.0	8.30	5.40	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	0.04	0.02	0.05
D	260.0	0.00	42.0	0.0	0.09	0.04	0.02	0.05
D	260.0	0.00	42.0	0.0	0.10	0.05	0.02	0.05
D	240.0	0.00	42.0	0.0	0.09	0.05	0.02	0.05
D	240.0	0.00	42.0	0.0	0.10	0.08	0.02	0.05
D	225.0	0.00	42.0	0.0	0.09	0.07	0.02	0.05
D	225.0	0.00	42.0	0.0	0.10	0.07	0.02	0.06
D	220.0	0.00	42.0	0.0	0.10	0.07	0.02	0.06
D	220.0	0.00	34.2	0.0	0.11	0.09	0.03	0.06
D	205.0	0.00	38.7	0.0	0.11	0.08	0.03	0.06
D	205.0	0.00	40.9	0.0	0.11	0.09	0.03	0.06
D	200.0	0.00	40.9	0.0	0.11	0.09	0.03	0.06
D	200.0	0.00	27.9	0.0	0.11	0.09	0.04	0.06
D	180.0	0.00	32.4	0.0	0.12	0.09	0.03	0.06
D	180.0	0.00	23.5	0.0	0.11	0.09	0.04	0.06
D	160.0	0.00	26.4	0.0	0.12	0.09	0.04	0.06
D	160.0	0.00	20.2	0.0	0.12	0.12	0.05	0.06
D	140.0	0.00	22.3	0.0	0.13	0.12	0.04	0.06
D	140.0	0.00	17.6	0.0	0.13	0.12	0.05	0.05
D	120.0	0.00	19.2	0.0	0.13	0.13	0.05	0.05
D	120.0	0.00	15.8	0.0	0.13	0.13	0.06	0.05
D	100.0	0.00	16.7	0.0	0.13	0.13	0.06	0.05
D	100.0	0.00	14.2	0.0	0.14	0.15	0.07	0.05
D	80.0	0.00	14.9	0.0	0.14	0.16	0.06	0.05
D	80.0	0.00	12.9	0.0	0.14	0.16	0.07	0.05
D	60.0	0.00	13.5	0.0	0.14	0.16	0.07	0.05
D	60.0	0.00	11.8	0.0	0.14	0.22	0.08	0.04
D	40.0	0.00	12.3	0.0	0.15	0.22	0.08	0.05
D	40.0	0.00	10.8	0.0	0.14	0.22	0.09	0.04
D	20.0	0.00	11.3	0.0	0.14	0.22	0.08	0.04
D	20.0	0.00	10.0	0.0	0.13	0.23	0.09	0.03
D	0.0	0.00	10.4	0.0	0.13	0.23	0.09	0.04

LOADING CONDITION AU

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

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	0.95	12.24	0.00	0.00
C	225.0	0.00	0.0	0.0	1.20	18.10	0.00	0.00
D	290.0	0.00	180.0	0.0	0.01	0.19	0.00	0.00
D	285.0	0.00	180.0	0.0	0.01	0.19	0.00	0.00
D	285.0	0.00	42.0	0.0	0.01	0.21	0.12	0.01
D	280.0	0.00	42.0	0.0	0.01	0.21	0.12	0.01
D	280.0	0.00	42.0	0.0	0.01	0.25	0.12	0.01
D	275.0	0.00	42.0	0.0	0.01	0.25	0.12	0.01
D	275.0	0.00	42.0	0.0	0.01	0.21	0.12	0.01
D	260.0	0.00	42.0	0.0	0.01	0.21	0.12	0.01
D	260.0	0.00	42.0	0.0	0.01	0.26	0.12	0.01
D	255.0	0.00	42.0	0.0	0.01	0.26	0.12	0.01
D	255.0	0.00	42.0	0.0	0.01	0.23	0.12	0.01
D	240.0	0.00	42.0	0.0	0.01	0.23	0.12	0.01
D	240.0	0.00	42.0	0.0	0.02	0.29	0.12	0.01
D	235.0	0.00	42.0	0.0	0.02	0.29	0.12	0.01
D	235.0	0.00	42.0	0.0	0.01	0.26	0.12	0.01
D	225.0	0.00	42.0	0.0	0.01	0.26	0.12	0.01
D	225.0	0.00	42.0	0.0	0.01	0.27	0.15	0.01
D	220.0	0.00	42.0	0.0	0.01	0.27	0.15	0.01
D	220.0	0.00	34.2	0.0	0.02	0.32	0.17	0.01
D	215.0	0.00	34.2	0.0	0.02	0.32	0.17	0.01
D	215.0	0.00	36.4	0.0	0.01	0.30	0.17	0.01

D	210.0	0.00	36.4	0.0	0.01	0.30	0.17	0.01
D	210.0	0.00	38.7	0.0	0.01	0.30	0.16	0.01
D	200.0	0.00	40.9	0.0	0.02	0.31	0.15	0.01
D	200.0	0.00	27.9	0.0	0.02	0.31	0.21	0.01
D	180.0	0.00	32.4	0.0	0.02	0.33	0.18	0.01
D	180.0	0.00	23.5	0.0	0.02	0.32	0.24	0.01
D	173.3	0.00	23.5	0.0	0.02	0.32	0.24	0.01
D	173.3	0.00	24.9	0.0	0.02	0.32	0.23	0.01
D	166.7	0.00	24.9	0.0	0.02	0.32	0.23	0.01
D	166.7	0.00	26.3	0.0	0.02	0.33	0.22	0.01
D	160.0	0.00	26.3	0.0	0.02	0.33	0.22	0.01
D	160.0	0.00	20.2	0.0	0.02	0.38	0.27	0.01
D	146.7	0.00	21.2	0.0	0.02	0.39	0.26	0.01
D	146.7	0.00	22.3	0.0	0.02	0.40	0.25	0.01
D	140.0	0.00	22.3	0.0	0.02	0.40	0.25	0.01
D	140.0	0.00	17.6	0.0	0.02	0.40	0.31	0.01
D	120.0	0.00	19.2	0.0	0.02	0.42	0.29	0.01
D	120.0	0.00	15.8	0.0	0.02	0.41	0.34	0.01
D	110.0	0.00	15.8	0.0	0.02	0.41	0.34	0.01
D	110.0	0.00	16.7	0.0	0.02	0.42	0.32	0.01
D	100.0	0.00	16.7	0.0	0.02	0.42	0.32	0.01
D	100.0	0.00	14.2	0.0	0.02	0.47	0.37	0.01
D	80.0	0.00	14.9	0.0	0.02	0.48	0.35	0.01
D	80.0	0.00	12.9	0.0	0.02	0.48	0.40	0.01
D	60.0	0.00	13.5	0.0	0.02	0.49	0.38	0.01
D	60.0	0.00	11.8	0.0	0.02	0.58	0.42	0.01
D	40.0	0.00	12.3	0.0	0.02	0.59	0.41	0.01
D	40.0	0.00	10.8	0.0	0.02	0.59	0.44	0.00
D	20.0	0.00	11.3	0.0	0.02	0.59	0.43	0.00
D	20.0	0.00	10.0	0.0	0.01	0.55	0.21	0.00
D	10.0	0.00	10.0	0.0	0.01	0.55	0.21	0.00
D	10.0	0.00	10.4	0.0	0.01	0.56	0.37	0.00
D	0.0	0.00	10.4	0.0	0.01	0.56	0.37	0.00

LOADING CONDITION CE

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

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	1.31	5.95	0.00	0.00
C	285.0	0.00	0.0	0.0	0.16	0.73	0.00	0.00
C	282.5	0.00	0.0	0.0	0.02	0.08	0.00	0.00
C	270.0	0.00	0.0	0.0	0.06	0.30	0.00	0.00
C	270.0	0.00	0.0	0.0	0.26	1.29	0.00	0.00
C	250.0	0.00	0.0	0.0	0.06	0.30	0.00	0.00
C	250.0	0.00	0.0	0.0	0.32	1.76	0.00	0.00
C	232.5	0.00	0.0	0.0	0.04	0.23	0.00	0.00
C	230.0	0.00	0.0	0.0	0.39	2.45	0.00	0.00
C	225.0	0.00	0.0	0.0	1.38	8.92	0.00	0.00
C	222.5	0.00	0.0	0.0	0.02	0.10	0.00	0.00
C	210.0	0.00	0.0	0.0	0.06	0.40	0.00	0.00
C	210.0	0.00	0.0	0.0	0.39	2.80	0.00	0.00
C	190.0	0.00	0.0	0.0	0.34	2.86	0.00	0.00
C	190.0	0.00	0.0	0.0	0.05	0.40	0.00	0.00
C	170.0	0.00	0.0	0.0	0.04	0.40	0.00	0.00
C	170.0	0.00	0.0	0.0	0.31	3.10	0.00	0.00
C	150.0	0.00	0.0	0.0	0.03	0.40	0.00	0.00
C	150.0	0.00	0.0	0.0	0.33	4.01	0.00	0.00
C	130.0	0.00	0.0	0.0	0.03	0.40	0.00	0.00
C	130.0	0.00	0.0	0.0	0.30	4.42	0.00	0.00
C	110.0	0.00	0.0	0.0	0.02	0.40	0.00	0.00
C	110.0	0.00	0.0	0.0	0.23	4.47	0.00	0.00
C	90.0	0.00	0.0	0.0	0.02	0.40	0.00	0.00
C	90.0	0.00	0.0	0.0	0.21	5.35	0.00	0.00
C	70.0	0.00	0.0	0.0	0.01	0.40	0.00	0.00
C	70.0	0.00	0.0	0.0	0.15	5.55	0.00	0.00
C	50.0	0.00	0.0	0.0	0.01	0.40	0.00	0.00
C	50.0	0.00	0.0	0.0	0.12	7.45	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.40	0.00	0.00
C	30.0	0.00	0.0	0.0	0.06	7.81	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.40	0.00	0.00
C	10.0	0.00	0.0	0.0	0.01	8.13	0.00	0.00

D	290.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00
D	0.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00

LOADING CONDITION CN

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

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	1.31	2.45	0.00	0.00
C	285.0	0.00	0.0	0.0	0.16	0.30	0.00	0.00
C	282.5	0.00	0.0	0.0	0.02	0.03	0.00	0.00
C	270.0	0.00	0.0	0.0	0.06	0.13	0.00	0.00
C	270.0	0.00	0.0	0.0	0.26	0.53	0.00	0.00
C	250.0	0.00	0.0	0.0	0.06	0.13	0.00	0.00
C	250.0	0.00	0.0	0.0	0.32	0.73	0.00	0.00
C	232.5	0.00	0.0	0.0	0.04	0.09	0.00	0.00
C	230.0	0.00	0.0	0.0	0.39	1.01	0.00	0.00
C	225.0	0.00	0.0	0.0	1.38	3.68	0.00	0.00
C	222.5	0.00	0.0	0.0	0.02	0.04	0.00	0.00
C	210.0	0.00	0.0	0.0	0.06	0.16	0.00	0.00
C	210.0	0.00	0.0	0.0	0.39	1.15	0.00	0.00
C	190.0	0.00	0.0	0.0	0.34	1.18	0.00	0.00
C	190.0	0.00	0.0	0.0	0.05	0.16	0.00	0.00
C	170.0	0.00	0.0	0.0	0.04	0.16	0.00	0.00
C	170.0	0.00	0.0	0.0	0.31	1.28	0.00	0.00
C	150.0	0.00	0.0	0.0	0.03	0.16	0.00	0.00
C	150.0	0.00	0.0	0.0	0.33	1.66	0.00	0.00
C	130.0	0.00	0.0	0.0	0.03	0.16	0.00	0.00
C	130.0	0.00	0.0	0.0	0.30	1.82	0.00	0.00
C	110.0	0.00	0.0	0.0	0.02	0.16	0.00	0.00
C	110.0	0.00	0.0	0.0	0.23	1.85	0.00	0.00
C	90.0	0.00	0.0	0.0	0.02	0.16	0.00	0.00
C	90.0	0.00	0.0	0.0	0.21	2.21	0.00	0.00
C	70.0	0.00	0.0	0.0	0.01	0.16	0.00	0.00
C	70.0	0.00	0.0	0.0	0.15	2.29	0.00	0.00
C	50.0	0.00	0.0	0.0	0.01	0.16	0.00	0.00
C	50.0	0.00	0.0	0.0	0.12	3.08	0.00	0.00
C	30.0	0.00	0.0	0.0	0.00	0.16	0.00	0.00
C	30.0	0.00	0.0	0.0	0.06	3.22	0.00	0.00
C	10.0	0.00	0.0	0.0	0.00	0.16	0.00	0.00
C	10.0	0.00	0.0	0.0	0.01	3.35	0.00	0.00
D	290.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00
D	0.0	0.00	180.0	180.0	0.00	0.00	0.00	0.00

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0	----------		0.50 1	0.00 A
	0.37 AC	0.88 S		
285.0	----------		0.08 S	0.00 A
	2.37 k	3.34 1		
280.0	----------		1.02 B	0.00 A
	11.12 k	3.52 o		
275.0	----------		0.20 B	0.00 A
	20.23 1	3.84 W		
270.0	----------		0.02 AC	0.00 A
	29.55 k	4.01 AF		
265.0	----------		0.24 B	0.00 A
	39.34 k	4.25 D		
260.0	----------		0.73 A	0.00 A
	49.44 k	4.44 AF		
255.0	----------		0.31 A	0.00 A
	61.07 k	4.75 D		
250.0	----------		0.03 AC	0.00 A
	72.15 k	4.93 n		
245.0	----------		0.29 A	0.00 A

	84.28 k	5.18 D			
240.0	----------		1.10 A	0.00 A	
	95.93 k	5.61 k			
235.0	----------		0.35 B	0.00 A	
	110.54 k	5.84 S			
230.0	----------		0.03 AK	0.00 A	
	122.81 k	5.89 k			
225.0	----------		0.30 B	0.00 A	
	139.47 k	10.03 AF			
220.0	----------		0.85 AD	0.00 A	
	156.19 k	4.15 m			
215.0	----------		0.31 A	0.00 A	
	165.01 k	3.87 U			
210.0	----------		0.05 A	0.00 A	
	171.19 k	3.61 m			
205.0	----------		0.21 A	0.00 A	
	178.11 k	3.47 U			
200.0	----------		0.07 A	0.00 A	
	183.62 k	3.35 m			
195.0	----------		0.15 A	0.00 A	
	189.47 k	3.30 F			
190.0	----------		0.13 A	0.00 A	
	194.48 k	3.25 m			
185.0	----------		0.12 A	0.00 A	
	199.74 k	3.26 F			
180.0	----------		0.13 A	0.00 A	
	205.06 k	3.51 m			
173.3	----------		0.14 A	0.00 A	
	211.44 k	3.51 F			
166.7	----------		0.11 A	0.00 A	
	217.14 k	3.50 AH			
160.0	----------		0.11 A	0.00 A	
	223.00 k	3.57 F			
153.3	----------		0.07 A	0.00 A	
	228.39 k	3.61 p			
146.7	----------		0.09 A	0.00 A	
	233.94 k	3.70 F			
140.0	----------		0.06 A	0.00 A	
	239.19 k	3.78 p			
133.3	----------		0.14 A	0.00 A	
	244.55 k	3.88 F			
126.7	----------		0.05 A	0.00 A	
	249.76 k	3.99 p			
120.0	----------		0.12 A	0.00 A	
	256.21 k	4.51 AH			
110.0	----------		0.11 A	0.00 A	
	263.96 k	4.65 p			
100.0	----------		0.10 A	0.00 A	
	271.60 k	4.82 AH			
90.0	----------		0.10 A	0.00 A	
	279.21 k	5.01 p			
80.0	----------		0.06 A	0.00 A	
	286.80 k	5.21 F			
70.0	----------		0.09 A	0.00 A	
	294.37 k	5.40 p			
60.0	----------		0.05 A	0.00 A	
	301.89 k	5.62 F			
50.0	----------		0.05 A	0.00 A	
	309.28 k	5.84 p			
40.0	----------		0.05 A	0.00 A	
	316.72 k	6.06 F			
30.0	----------		0.04 A	0.00 A	
	324.11 k	6.25 p			
20.0	----------		0.01 CE	0.00 A	
	331.50 k	6.44 F			
10.0	----------		0.04 A	0.00 A	
	338.78 k	6.60 p			
0.0	----------		0.00 A	0.00 A	

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0	----------		-0.59 S	0.00 A

	-0.62	B	-0.75	k			
285.0					-0.06	l	0.00 A
	-5.24	S	-3.52	S			
280.0					-0.84	r	0.00 A
	-14.29	S	-3.65	D			
275.0					-0.16	AD	0.00 A
	-24.01	T	-3.78	o			
270.0					-0.02	A	0.00 A
	-33.55	S	-4.06	D			
265.0					-0.20	AD	0.00 A
	-43.81	S	-4.26	D			
260.0					-0.67	AC	0.00 A
	-54.26	S	-4.61	S			
255.0					-0.28	AC	0.00 A
	-66.67	S	-4.70	AF			
250.0					-0.03	A	0.00 A
	-78.20	S	-4.98	D			
245.0					-0.27	AC	0.00 A
	-91.02	S	-5.18	D			
240.0					-1.04	AC	0.00 A
	-103.18	S	-5.92	S			
235.0					-0.31	AD	0.00 A
	-118.87	S	-5.63	n			
230.0					-0.05	g	0.00 A
	-131.83	S	-6.13	S			
225.0					-0.26	AD	0.00 A
	-153.56	S	-10.12	S			
220.0					-0.99	B	0.00 A
	-170.80	S	-4.40	U			
215.0					-0.28	AC	0.00 A
	-180.51	S	-3.71	m			
210.0					-0.05	AC	0.00 A
	-186.94	S	-3.79	U			
205.0					-0.19	AC	0.00 A
	-194.56	S	-3.42	p			
200.0					-0.06	AC	0.00 A
	-200.45	S	-3.50	U			
195.0					-0.14	AC	0.00 A
	-206.95	S	-3.28	p			
190.0					-0.12	AC	0.00 A
	-212.41	S	-3.41	U			
185.0					-0.10	AC	0.00 A
	-218.30	S	-3.24	p			
180.0					-0.12	AC	0.00 A
	-224.20	S	-3.70	U			
173.3					-0.12	AC	0.00 A
	-231.45	S	-3.50	F			
166.7					-0.10	AC	0.00 A
	-237.87	S	-3.68	U			
160.0					-0.10	AC	0.00 A
	-244.66	S	-3.56	U			
153.3					-0.06	AC	0.00 A
	-250.95	S	-3.78	U			
146.7					-0.08	AC	0.00 A
	-257.52	S	-3.73	U			
140.0					-0.06	AC	0.00 A
	-263.74	S	-3.94	U			
133.3					-0.12	AC	0.00 A
	-270.14	S	-3.98	U			
126.7					-0.04	AC	0.00 A
	-276.40	S	-4.10	U			
120.0					-0.11	AC	0.00 A
	-284.15	S	-4.69	U			
110.0					-0.10	AC	0.00 A
	-293.53	S	-4.81	U			
100.0					-0.09	AC	0.00 A
	-302.91	S	-5.01	U			
90.0					-0.09	AC	0.00 A
	-312.40	S	-5.18	U			
80.0					-0.06	AC	0.00 A
	-321.91	S	-5.38	U			
70.0					-0.08	AC	0.00 A
	-331.44	S	-5.59	U			
60.0					-0.05	AC	0.00 A
	-341.16	S	-5.78	U			
50.0					-0.04	AC	0.00 A
	-351.01	S	-6.03	U			
40.0					-0.04	AC	0.00 A
	-360.97	S	-6.22	U			
30.0					-0.04	AC	0.00 A
	-370.92	S	-6.43	U			

20.0			0.00 AC	0.00 A
	-380.92 S	-6.58 U		
10.0			-0.04 AC	0.00 A
	-390.82 S	-6.80 U		
0.0			0.00 A	0.00 A

FORCE/RESISTANCE RATIO IN LEGS

MAST ELEV ft	-- LEG COMPRESSION - MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	---- LEG TENSION --- MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
290.00						
	0.62	57.04	0.01	0.37	76.50	0.00
285.00						
	5.24	57.04	0.09	2.37	76.50	0.03
280.00						
	14.29	57.04	0.25	11.12	76.50	0.15
275.00						
	24.01	57.04	0.42	20.23	76.50	0.26
270.00						
	33.55	57.04	0.59	29.55	76.50	0.39
265.00						
	43.81	57.04	0.77	39.34	76.50	0.51
260.00						
	54.26	110.98	0.49	49.44	135.90	0.36
255.00						
	66.67	110.98	0.60	61.07	135.90	0.45
250.00						
	78.20	110.98	0.70	72.15	135.90	0.53
245.00						
	91.02	110.98	0.82	84.28	135.90	0.62
240.00						
	103.18	175.98	0.59	95.93	198.45	0.48
235.00						
	118.87	175.98	0.68	110.54	198.45	0.56
230.00						
	131.83	175.98	0.75	122.81	198.45	0.62
225.00						
	153.56	175.98	0.87	139.47	198.45	0.70
220.00						
	170.80	254.38	0.67	156.19	274.95	0.57
215.00						
	180.51	254.38	0.71	165.01	274.95	0.60
210.00						
	186.94	254.38	0.73	171.19	274.95	0.62
205.00						
	194.56	254.38	0.76	178.11	274.95	0.65
200.00						
	200.45	254.38	0.79	183.62	274.95	0.67
195.00						
	206.95	254.38	0.81	189.47	274.95	0.69
190.00						
	212.41	254.38	0.84	194.48	274.95	0.71
185.00						
	218.30	254.38	0.86	199.74	274.95	0.73
180.00						
	224.20	239.46	0.94	205.06	274.95	0.75
173.33						
	231.45	239.46	0.97	211.44	274.95	0.77
166.67						
	237.87	239.46	0.99	217.14	274.95	0.79
160.00						
	244.66	309.64	0.79	223.00	327.10	0.68
153.33						
	250.95	309.64	0.81	228.39	327.10	0.70
146.67						
	257.52	309.64	0.83	233.94	327.10	0.72
140.00						
	263.74	309.64	0.85	239.19	357.75	0.67
133.33						
	270.14	309.64	0.87	244.55	357.75	0.68
126.67						
	276.40	309.64	0.89	249.76	357.75	0.70
120.00						
	284.15	334.65	0.85	256.21	378.00	0.68
110.00						
	293.53	334.65	0.88	263.96	378.00	0.70

100.00						
	302.91	334.65	0.91	271.60	378.00	0.72
90.00						
	312.40	334.65	0.93	279.21	378.00	0.74
80.00						
	321.91	334.65	0.96	286.80	378.00	0.76
70.00						
	331.44	334.65	0.99	294.37	378.00	0.78
60.00						
	341.16	507.33	0.67	301.89	523.32	0.58
50.00						
	351.01	507.33	0.69	309.28	523.32	0.59
40.00						
	360.97	507.33	0.71	316.72	523.32	0.61
30.00						
	370.92	507.33	0.73	324.11	523.32	0.62
20.00						
	380.92	507.33	0.75	331.50	576.00	0.58
10.00						
	390.82	507.33	0.77	338.78	576.00	0.59
0.00						

FORCE/RESISTANCE RATIO IN DIAGONALS
==========

MAST ELEV ft	- DIAG COMPRESSION - MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	--- DIAG TENSION -- MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
290.00						
	0.75	7.16	0.10	0.88	7.16	0.12
285.00						
	3.52	7.16	0.49	3.34	7.16	0.47
280.00						
	3.65	7.16	0.51	3.52	7.16	0.49
275.00						
	3.78	7.16	0.53	3.84	7.16	0.54
270.00						
	4.06	7.16	0.57	4.01	7.16	0.56
265.00						
	4.26	7.16	0.60	4.25	7.16	0.59
260.00						
	4.61	7.16	0.64	4.44	7.16	0.62
255.00						
	4.70	7.16	0.66	4.75	7.16	0.66
250.00						
	4.98	7.16	0.70	4.93	7.16	0.69
245.00						
	5.18	7.16	0.72	5.18	7.16	0.72
240.00						
	5.92	10.74	0.55	5.61	10.74	0.52
235.00						
	5.63	10.74	0.52	5.84	10.74	0.54
230.00						
	6.13	10.74	0.57	5.89	10.74	0.55
225.00						
	10.12	10.74	0.94	10.03	10.74	0.93
220.00						
	4.40	7.16	0.62	4.15	7.16	0.58
215.00						
	3.71	7.16	0.52	3.87	7.16	0.54
210.00						
	3.79	7.16	0.53	3.61	7.16	0.50
205.00						
	3.42	7.16	0.48	3.47	7.16	0.48
200.00						
	3.50	5.63	0.62	3.35	5.63	0.59
195.00						
	3.28	5.63	0.58	3.30	5.63	0.59
190.00						
	3.41	5.63	0.60	3.25	5.63	0.58
185.00						
	3.24	5.63	0.58	3.26	5.63	0.58
180.00						
	3.70	5.14	0.72	3.51	5.14	0.68
173.33						
	3.50	5.14	0.68	3.51	5.14	0.68
166.67						
	3.68	5.14	0.72	3.50	5.14	0.68
160.00						

	3.56	7.46	0.48	3.57	7.46	0.48
153.33						
	3.78	7.46	0.51	3.61	7.46	0.48
146.67						
	3.73	7.46	0.50	3.70	7.46	0.50
140.00						
	3.94	5.78	0.68	3.78	5.78	0.65
133.33						
	3.98	5.78	0.69	3.88	5.78	0.67
126.67						
	4.10	5.78	0.71	3.99	5.78	0.69
120.00						
	4.69	6.98	0.67	4.51	6.98	0.65
110.00						
	4.81	6.98	0.69	4.65	6.98	0.67
100.00						
	5.01	12.53	0.40	4.82	12.53	0.38
90.00						
	5.18	12.53	0.41	5.01	12.53	0.40
80.00						
	5.38	10.73	0.50	5.21	10.73	0.49
70.00						
	5.59	10.73	0.52	5.40	10.73	0.50
60.00						
	5.78	13.43	0.43	5.62	13.43	0.42
50.00						
	6.03	13.43	0.45	5.84	13.43	0.43
40.00						
	6.22	14.31	0.43	6.06	14.31	0.42
30.00						
	6.43	14.31	0.45	6.25	14.31	0.44
20.00						
	6.58	12.68	0.52	6.44	12.68	0.51
10.00						
	6.80	12.68	0.54	6.60	12.68	0.52
0.00						

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

LOAD---COMPONENTS				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
33.21 S	26.62 e	395.23 S	-341.90 k	33.21 S

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

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL @ 0.0		NORTH	EAST	TOTAL @ 0.0	
53.1 S	-42.7 J	53.1 S	143.9 BT	8772.2 S	-7326.2 J	8772.2 S	-31.6 P

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

* 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• (1.0 D + 1.0 Wo) PL - 0

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	2.19	4.00	0.00	0.00
C	225.0	0.00	0.0	0.0	2.78	6.00	0.00	0.00
D	290.0	0.00	180.0	0.0	0.02	0.04	0.00	0.00
D	285.0	0.00	180.0	0.0	0.02	0.04	0.00	0.00
D	285.0	0.00	42.0	0.0	0.03	0.04	0.02	0.02
D	260.0	0.00	42.0	0.0	0.03	0.04	0.02	0.02
D	260.0	0.00	42.0	0.0	0.03	0.06	0.02	0.02
D	240.0	0.00	42.0	0.0	0.03	0.06	0.02	0.02
D	240.0	0.00	42.0	0.0	0.03	0.08	0.02	0.02
D	225.0	0.00	42.0	0.0	0.03	0.08	0.02	0.02
D	225.0	0.00	42.0	0.0	0.03	0.08	0.03	0.02
D	220.0	0.00	42.0	0.0	0.03	0.08	0.03	0.02
D	220.0	0.00	34.2	0.0	0.04	0.10	0.03	0.02
D	205.0	0.00	38.7	0.0	0.04	0.09	0.03	0.02
D	205.0	0.00	40.9	0.0	0.04	0.09	0.03	0.02
D	200.0	0.00	40.9	0.0	0.04	0.09	0.03	0.02
D	200.0	0.00	27.9	0.0	0.04	0.10	0.04	0.02
D	180.0	0.00	32.4	0.0	0.04	0.10	0.03	0.02
D	180.0	0.00	23.5	0.0	0.04	0.10	0.05	0.02
D	160.0	0.00	26.4	0.0	0.04	0.11	0.04	0.02
D	160.0	0.00	20.2	0.0	0.04	0.13	0.05	0.02
D	140.0	0.00	22.3	0.0	0.04	0.14	0.05	0.02
D	140.0	0.00	17.6	0.0	0.04	0.14	0.06	0.02
D	120.0	0.00	19.2	0.0	0.05	0.14	0.06	0.02
D	120.0	0.00	15.8	0.0	0.05	0.14	0.07	0.02
D	100.0	0.00	16.7	0.0	0.05	0.14	0.06	0.02
D	100.0	0.00	14.2	0.0	0.05	0.17	0.07	0.02
D	80.0	0.00	14.9	0.0	0.05	0.17	0.07	0.02
D	80.0	0.00	12.9	0.0	0.05	0.18	0.08	0.02
D	60.0	0.00	13.5	0.0	0.05	0.18	0.08	0.02
D	60.0	0.00	11.8	0.0	0.05	0.24	0.09	0.01
D	40.0	0.00	12.3	0.0	0.05	0.24	0.09	0.02
D	40.0	0.00	10.8	0.0	0.05	0.25	0.10	0.01
D	20.0	0.00	11.3	0.0	0.05	0.25	0.09	0.01
D	20.0	0.00	10.0	0.0	0.04	0.25	0.10	0.01
D	0.0	0.00	10.4	0.0	0.04	0.26	0.10	0.01

MAXIMUM MAST DISPLACEMENTS:

ELEV ft	------DEFLECTIONS (ft)----- NORTH	EAST	DOWN	--TILTS (DEG)--- NORTH	EAST	TWIST DEG
290.0	1.864 S	-1.638 J	0.019 S	0.917 S	-0.824 J	0.111 h
285.0	1.784 S	-1.566 J	0.018 S	0.917 S	-0.824 J	0.111 h
280.0	1.703 S	-1.493 J	0.017 S	0.915 S	-0.822 J	0.111 h
275.0	1.623 S	-1.421 J	0.017 S	0.906 S	-0.813 J	0.110 h
270.0	1.544 S	-1.350 J	0.016 S	0.891 S	-0.799 J	0.109 h
265.0	1.466 S	-1.280 J	0.015 S	0.870 S	-0.778 J	0.107 h
260.0	1.391 S	-1.213 J	0.014 S	0.842 S	-0.752 J	0.105 h
255.0	1.317 S	-1.147 J	0.014 S	0.822 S	-0.733 J	0.102 h
250.0	1.245 S	-1.083 J	0.013 S	0.798 S	-0.710 J	0.099 h
245.0	1.175 S	-1.021 J	0.013 S	0.769 S	-0.683 J	0.095 h
240.0	1.109 S	-0.962 J	0.012 S	0.735 S	-0.652 J	0.090 h
235.0	1.045 S	-0.905 J	0.012 S	0.709 S	-0.628 J	0.087 h
230.0	0.984 S	-0.852 J	0.011 S	0.678 S	-0.600 J	0.083 h
225.0	0.925 S	-0.799 J	0.011 S	0.645 S	-0.569 J	0.079 h
220.0	0.869 S	-0.750 J	0.010 S	0.606 S	-0.534 J	0.075 h
215.0	0.817 S	-0.704 J	0.010 S	0.577 S	-0.508 J	0.069 h
210.0	0.767 S	-0.660 J	0.009 S	0.550 S	-0.483 J	0.063 h
205.0	0.720 S	-0.618 J	0.009 S	0.523 S	-0.459 J	0.058 h
200.0	0.675 S	-0.579 J	0.009 S	0.498 S	-0.436 J	0.053 h
195.0	0.632 S	-0.541 J	0.008 S	0.473 S	-0.414 J	0.049 h
190.0	0.591 S	-0.506 J	0.008 S	0.450 S	-0.393 J	0.045 h
185.0	0.552 S	-0.472 J	0.008 S	0.427 S	-0.372 J	0.041 h
180.0	0.515 S	-0.440 J	0.008 S	0.405 S	-0.352 J	0.037 h

173.3	0.469 S	-0.400 J	0.007 S	0.376 S	-0.327 J	0.034 h
166.7	0.427 S	-0.364 J	0.007 S	0.349 S	-0.302 J	0.031 h
160.0	0.387 S	-0.329 J	0.007 S	0.322 S	-0.278 J	0.028 h
153.3	0.351 S	-0.298 J	0.006 S	0.302 S	-0.261 J	0.025 h
146.7	0.316 S	-0.268 J	0.006 S	0.283 S	-0.244 J	0.023 h
140.0	0.284 S	-0.240 J	0.006 S	0.265 S	-0.228 J	0.021 h
133.3	0.253 S	-0.214 J	0.005 S	0.247 S	-0.212 J	0.019 h
126.7	0.226 S	-0.191 J	0.005 S	0.229 S	-0.196 J	0.017 h
120.0	0.199 S	-0.168 J	0.005 S	0.212 S	-0.181 J	0.015 h
110.0	0.164 S	-0.138 J	0.004 S	0.188 S	-0.161 J	0.013 h
100.0	0.132 S	-0.111 J	0.004 S	0.165 S	-0.141 J	0.011 h
90.0	0.105 S	-0.088 J	0.004 S	0.143 S	-0.121 J	0.010 h
80.0	0.082 S	-0.068 J	0.003 S	0.121 S	-0.102 J	0.008 h
70.0	0.062 S	-0.052 J	0.003 S	0.099 S	-0.084 J	0.007 h
60.0	0.046 S	-0.038 J	0.002 S	0.078 S	-0.066 J	0.006 h
50.0	0.033 S	-0.027 J	0.002 S	0.064 S	-0.054 J	0.005 h
40.0	0.022 S	-0.018 J	0.002 S	0.051 S	-0.043 J	0.004 h
30.0	0.013 S	-0.011 J	0.001 S	0.038 S	-0.032 J	0.003 h
20.0	0.007 S	-0.006 J	0.001 S	0.025 S	-0.021 J	0.002 h
10.0	0.002 S	-0.002 J	0.000 S	0.012 S	-0.010 J	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	----------		0.14 A	0.00 A
	0.04 S	0.33 S		
285.0	----------		0.03 S	0.00 A
	0.00 A	1.07 A		
280.0	----------		0.40 B	0.00 A
	2.75 A	1.14 D		
275.0	----------		0.08 B	0.00 A
	5.68 B	1.31 V		
270.0	----------		0.01 S	0.00 A
	8.81 A	1.33 V		
265.0	----------		0.09 B	0.00 A
	12.03 A	1.43 D		
260.0	----------		0.27 A	0.00 A
	15.41 A	1.46 D		
255.0	----------		0.11 A	0.00 A
	19.18 A	1.61 V		
250.0	----------		0.01 S	0.00 A
	22.88 A	1.64 D		
245.0	----------		0.11 A	0.00 A
	26.87 A	1.74 V		
240.0	----------		0.39 A	0.00 A
	30.75 A	1.84 A		
235.0	----------		0.13 B	0.00 A
	35.49 A	1.97 S		
230.0	----------		0.00 a	0.00 A
	39.56 A	1.97 A		
225.0	----------		0.11 B	0.00 A
	43.67 A	3.35 V		
220.0	----------		0.23 T	0.00 A
	49.24 A	1.34 C		
215.0	----------		0.12 A	0.00 A
	51.98 A	1.33 U		
210.0	----------		0.02 A	0.00 A
	54.03 A	1.18 C		
205.0	----------		0.08 A	0.00 A
	56.19 A	1.18 U		
200.0	----------		0.03 A	0.00 A
	57.98 A	1.11 C		
195.0	----------		0.06 A	0.00 A
	59.83 A	1.13 F		
190.0	----------		0.05 A	0.00 A
	61.44 A	1.08 C		
185.0	----------		0.04 A	0.00 A
	63.09 A	1.11 X		
180.0	----------		0.05 A	0.00 A
	64.79 A	1.18 C		
173.3	----------		0.05 A	0.00 A
	66.79 A	1.20 X		
166.7	----------		0.04 A	0.00 A
	68.60 A	1.18 X		
160.0	----------		0.04 A	0.00 A
	70.41 A	1.22 X		

153.3	----------		0.03 A	0.00 A
	72.06 A	1.23 X		
146.7	----------		0.03 A	0.00 A
	73.75 A	1.27 X		
140.0	----------		0.02 A	0.00 A
	75.36 A	1.29 X		
133.3	----------		0.05 A	0.00 A
	76.98 A	1.33 X		
126.7	----------		0.02 A	0.00 A
	78.56 A	1.36 F		
120.0	----------		0.05 A	0.00 A
	80.52 A	1.54 F		
110.0	----------		0.04 A	0.00 A
	82.87 A	1.60 X		
100.0	----------		0.04 A	0.00 A
	85.16 A	1.66 F		
90.0	----------		0.04 A	0.00 A
	87.42 A	1.73 X		
80.0	----------		0.02 A	0.00 A
	89.66 A	1.81 F		
70.0	----------		0.03 A	0.00 A
	91.90 A	1.88 F		
60.0	----------		0.02 A	0.00 A
	94.05 A	1.96 X		
50.0	----------		0.02 A	0.00 A
	96.09 A	2.03 F		
40.0	----------		0.02 A	0.00 A
	98.13 A	2.11 X		
30.0	----------		0.02 A	0.00 A
	100.16 A	2.18 X		
20.0	----------		0.00 A	0.00 A
	102.17 A	2.25 F		
10.0	----------		0.02 A	0.00 A
	104.14 A	2.30 X		
0.0	----------		0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0	----------		-0.22 S	0.00 A
	-0.28 A	-0.21 A		
285.0	----------		-0.01 A	0.00 A
	-2.56 S	-1.23 S		
280.0	----------		-0.22 T	0.00 A
	-5.65 S	-1.26 D		
275.0	----------		-0.04 T	0.00 A
	-9.03 T	-1.25 D		
270.0	----------		-0.01 A	0.00 A
	-12.23 S	-1.38 D		
265.0	----------		-0.05 T	0.00 A
	-15.74 S	-1.43 V		
260.0	----------		-0.20 S	0.00 A
	-19.26 S	-1.57 S		
255.0	----------		-0.08 S	0.00 A
	-23.54 S	-1.56 D		
250.0	----------		-0.01 A	0.00 A
	-27.44 S	-1.68 V		
245.0	----------		-0.08 S	0.00 A
	-31.82 S	-1.74 D		
240.0	----------		-0.32 S	0.00 A
	-35.93 S	-2.02 S		
235.0	----------		-0.09 T	0.00 A
	-41.35 S	-1.87 D		
230.0	----------		-0.02 g	0.00 A
	-45.75 S	-2.07 S		
225.0	----------		-0.07 T	0.00 A
	-54.31 S	-3.41 S		
220.0	----------		-0.38 B	0.00 A
	-60.15 S	-1.53 U		
215.0	----------		-0.08 S	0.00 A
	-63.60 S	-1.22 C		
210.0	----------		-0.01 S	0.00 A
	-65.80 S	-1.30 U		

205.0	----------		-0.06 S	0.00 A
	-68.51 S	-1.14 F		
200.0	----------		-0.02 S	0.00 A
	-70.57 S	-1.20 U		
195.0	----------		-0.04 S	0.00 A
	-72.89 S	-1.11 X		
190.0	----------		-0.04 S	0.00 A
	-74.82 S	-1.17 U		
185.0	----------		-0.03 S	0.00 A
	-76.94 S	-1.09 X		
180.0	----------		-0.03 S	0.00 A
	-79.04 S	-1.27 U		
173.3	----------		-0.04 S	0.00 A
	-81.67 S	-1.19 X		
166.7	----------		-0.03 S	0.00 A
	-83.99 S	-1.27 U		
160.0	----------		-0.03 S	0.00 A
	-86.48 S	-1.22 X		
153.3	----------		-0.02 S	0.00 A
	-88.80 S	-1.30 U		
146.7	----------		-0.02 S	0.00 A
	-91.24 S	-1.28 U		
140.0	----------		-0.02 S	0.00 A
	-93.55 S	-1.36 U		
133.3	----------		-0.04 S	0.00 A
	-95.93 S	-1.36 U		
126.7	----------		-0.01 S	0.00 A
	-98.26 S	-1.41 U		
120.0	----------		-0.03 S	0.00 A
	-101.16 S	-1.62 U		
110.0	----------		-0.03 S	0.00 A
	-104.67 S	-1.66 U		
100.0	----------		-0.03 S	0.00 A
	-108.22 S	-1.74 U		
90.0	----------		-0.02 S	0.00 A
	-111.84 S	-1.80 U		
80.0	----------		-0.02 S	0.00 A
	-115.49 S	-1.87 U		
70.0	----------		-0.02 S	0.00 A
	-119.15 S	-1.95 U		
60.0	----------		-0.01 S	0.00 A
	-122.94 S	-2.02 U		
50.0	----------		-0.01 S	0.00 A
	-126.84 S	-2.10 U		
40.0	----------		-0.01 S	0.00 A
	-130.79 S	-2.17 U		
30.0	----------		-0.01 S	0.00 A
	-134.74 S	-2.25 U		
20.0	----------		0.00 S	0.00 A
	-138.72 S	-2.30 U		
10.0	----------		-0.01 S	0.00 A
	-142.67 S	-2.38 U		
0.0	----------		0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

LOAD---COMPONENTS				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
11.95 S	9.63 e	144.45 S	-104.96 A	11.95 S

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

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL @ 0.0		NORTH	EAST	TOTAL @ 0.0	
18.2 S	-14.7 J	18.2 S	50.2 S	2986.5 S	-2502.7 J	2986.5 S	10.6 h

Seismic Load Effects
Equivalent Lateral Force Procedure
ANSI/TIA-222-G

Parameters	
Risk Category	II
R	3.000
S_S	1.791
S_1	0.595
Site Class	C
T_L (sec)	12.000
F_a	1.200
F_v	1.405
S_{MS}	2.149
S_{M1}	0.836
S_{DS}	1.433
S_{D1}	0.557
T_s	0.389
I_e	1.000
Ω	1.500
C_S	0.121
h (ft)	290.00
K_f	4,540
W_a (ft)	13.34
W_o (ft)	27.00
W (kips)	55.436
W_1 (kips)	21.848
W_2 (kips)	4.986
f_1 (Hertz)	0.650
T (sec)	1.539
k_e	1.5195
V_s (kips)	6.708
Seismic Design Category	D

Vertical Distribution of Seismic Forces

Description	h_i (ft.)	w_i (kips)	W_2 (kips)	$w_i h_i^{ke}$	F_{vi} or E_h (kips)	E_V (kips)	1.2 D + 1.0 E_V (kips)	0.9 D - 1.0 E_V (kips)
Antenna Load	285.00	4.0000	4.0000	21,488.0376	1.3143	1.1464	5.9464	2.4536
Structure - Section 1	285.00	0.4890	0.4890	2,626.9126	0.1607	0.1401	0.7269	0.3000
Ladder/Line	282.50	0.0512	0.0973	271.3892	0.0166	0.0147	0.0761	0.0314
Ladder/Line	270.00	0.2048	0.2048	1,013.4147	0.0620	0.0587	0.3045	0.1256
Structure - Section 2	270.00	0.8650	0.1946	4,280.2915	0.2618	0.2479	1.2859	0.5306
Ladder/Line	250.00	0.2048	0.0000	901.5707	0.0551	0.0587	0.3045	0.1256
Structure - Section 3	250.00	1.1860	0.0000	5,221.0101	0.3193	0.3399	1.7631	0.7275
Ladder/Line	232.50	0.1536	0.0000	605.5791	0.0370	0.0440	0.2283	0.0942
Structure - Section 4	230.00	1.6460	0.0000	6,383.7413	0.3905	0.4717	2.4469	1.0097
Antenna Load	225.00	6.0000	0.0000	22,505.7032	1.3765	1.7196	8.9196	3.6804
Ladder/Line	222.50	0.0668	0.0000	246.3454	0.0151	0.0191	0.0993	0.0410
Ladder/Line	210.00	0.2672	0.0000	902.5030	0.0552	0.0766	0.3972	0.1639
Structure - Section 5	210.00	1.8810	0.0000	6,353.3242	0.3886	0.5391	2.7963	1.1538
Ladder/Line	190.00	0.2672	0.0000	775.1800	0.0474	0.0766	0.3972	0.1639
Structure - Section 6	190.00	1.9250	0.0000	5,584.6612	0.3416	0.5517	2.8617	1.1808
Ladder/Line	170.00	0.2672	0.0000	654.6416	0.0400	0.0766	0.3972	0.1639
Structure - Section 7	170.00	2.0820	0.0000	5,100.9124	0.3120	0.5967	3.0951	1.2771
Ladder/Line	150.00	0.2672	0.0000	541.2615	0.0331	0.0766	0.3972	0.1639
Structure - Section 8	150.00	2.6990	0.0000	5,467.3082	0.3344	0.7735	4.0123	1.6556
Ladder/Line	130.00	0.2672	0.0000	435.4852	0.0266	0.0766	0.3972	0.1639
Structure - Section 9	130.00	2.9750	0.0000	4,848.6841	0.2966	0.8526	4.4226	1.8249
Ladder/Line	110.00	0.2672	0.0000	337.8568	0.0207	0.0766	0.3972	0.1639
Structure - Section 10	110.00	3.0090	0.0000	3,804.6821	0.2327	0.8624	4.4732	1.8457
Ladder/Line	90.00	0.2672	0.0000	249.0623	0.0152	0.0766	0.3972	0.1639
Structure - Section 11	90.00	3.5970	0.0000	3,352.8331	0.2051	1.0309	5.3473	2.2064
Ladder/Line	70.00	0.2672	0.0000	170.0055	0.0104	0.0766	0.3972	0.1639
Structure - Section 12	70.00	3.7300	0.0000	2,373.2053	0.1452	1.0690	5.5450	2.2880
Ladder/Line	50.00	0.2672	0.0000	101.9580	0.0062	0.0766	0.3972	0.1639
Structure - Section 13	50.00	5.0130	0.0000	1,912.8575	0.1170	1.4367	7.4523	3.0750
Ladder/Line	30.00	0.2672	0.0000	46.9161	0.0029	0.0766	0.3972	0.1639
Structure - Section 14	30.00	5.2530	0.0000	922.3445	0.0564	1.5055	7.8091	3.2222
Ladder/Line	10.00	0.2672	0.0000	8.8376	0.0005	0.0766	0.3972	0.1639
Structure - Section 15	10.00	5.4660	0.0000	180.7880	0.0111	1.5666	8.1258	3.3528
	Σ	55.44	4.9857	109,669.30	6.71	15.89	82.41	34.00

Leg Connection Details												
Bottom Elevation (ft)	Top Elevation (ft)	Pipe Dimensions	Top Splice					Bottom Splice/Base				
			Bolt Qty.	Bolt Dia. (in)	Bolt Circle (in)	Plate Thickness (in)	Plate Dia. (in)	Bolt Qty.	Bolt Dia. (in)	Bolt Circle (in)	Plate Thickness (in)	Plate Dia. (in)
280	290	2.875 OD X .203						6	0.75	6.50	1.00	8.50
260	280	2.875 OD X .203	6	0.75	6.50	1.00	8.50	6	0.75	6.50	1.00	8.50
240	260	3.500 OD X .300	6	0.75	6.50	1.00	8.50	6	1.00	9.00	1.25	11.50
220	240	4.500 OD X .337	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
200	220	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
180	200	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
160	180	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
140	160	5.563 OD X .500	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
120	140	5.563 OD X .500	6	1.00	9.00	1.25	11.50	6	1.25	12.50	1.75	15.75
100	120	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
80	100	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
60	80	8.625 OD X .322	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
40	60	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
20	40	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
0	20	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.50	13.25	1.75	17.00

Diagonal Bracing Connection Details								
Bottom Elevation (ft)	Top Elevation (ft)	Angle Shape	Bolt Qty.	Bolt Dia. (in)	Bolt End Distance (in)	Bolt Spacing (in)	Gage Distance From Heel (in)	Gusset Plate Thickness (in)
280	290	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
260	280	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
240	260	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
220	240	L 2 X 2 X 3/16	1	0.625	1.500		1.125	0.375
200	220	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
180	200	L 2 X 2 X 1/8	1	0.625	1.500		1.125	0.375
160	180	L 2 X 2 X 3/16	1	0.625	1.500		1.125	0.375
140	160	L 2 1/2 X 2 1/2 X 3/16	1	0.625	1.500		1.375	0.375
120	140	L 2 1/2 X 2 1/2 X 3/16	1	0.750	1.500		1.375	0.375
100	120	L 3 X 3 X 3/16	1	0.750	1.625		1.750	0.375
80	100	L 3 1/2 X 3 1/2 X 1/4	1	0.750	1.625		1.750	0.375
60	80	L 3 1/2 X 3 1/2 X 1/4	1	0.750	1.625		1.750	0.375
40	60	L 4 X 4 X 1/4	1	0.750	1.625		2.000	0.375
20	40	L 4 X 4 X 1/4	2	0.625	1.625	2.1250	2.000	0.500
0	20	L 4 X 4 X 1/4	2	0.625	1.625	2.1250	2.000	0.500

DRILLED STRAIGHT PIER DESIGN BY SABRE INDUSTRIES

290' S3TL Series HD1 HORVATH COMMUNICATIONS INC Barlow, KY (457708) 09/27/22 REB

Factored Uplift (kips)	342
Factored Download (kips)	395
Factored Shear (kips)	33
Ultimate Bearing Pressure	13.825
Bearing Φs	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)	5
Ht. Above Ground (ft)	1
Pier Length Below Ground (ft)	40
Rebar Quantity	16
Rebar Diameter (in)	1.27
Rebar Area (in²)	20.27
Rebar Spacing (in)	10.09
Tie Diameter (in)	0.5
Tie Spacing (in)	12
f'c (ksi)	4.5
fy (ksi)	60
Unit Wt. of Concrete (kcf)	0.15
Volume of Concrete (yd³)	29.82

Minimum Pier Diameter (ft): 2.44

Minimum Area of Steel (in²): 14.14

Length to ignore download (ft): 0

Ignore bottom length in download? ☐

Depth at Bottom of Layer (ft)	Ult. Skin Friction (ksf)	Ult. Skin Friction (Uplift)	γ (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

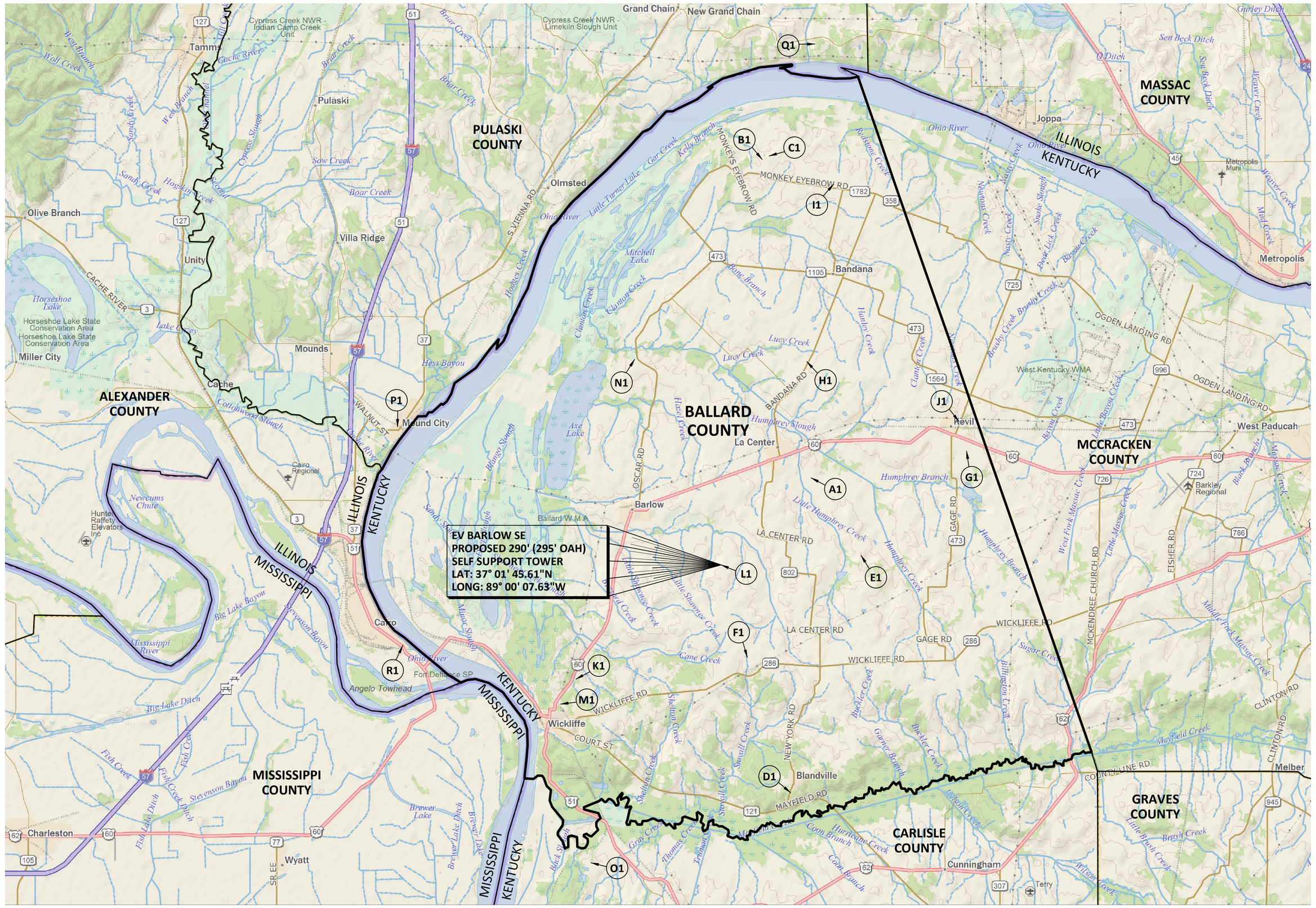
DRILLED STRAIGHT PIER DESIGN BY SABRE INDUSTRIES (CONTINUED)

Download:			
Φ_s, Download Friction	0.75		
Q_f, Skin Friction (kips)	336.2	W_s (kips)	86.4
Q_b, End Bearing Strength (kips)	271.5	W_c (kips)	120.8
Download Design Strength (kips)	455.7	Factored Net Download (kips)	436.2
Uplift (skin friction):			
Φ_s, Uplift	0.75		
Q_f, Skin Friction (kips)	336.2		
W_c (kips)	120.8		
W_w (kips)	19.6		
Uplift Design Strength (kips)	343.1	Factored Uplift (kips)	342.0
Uplift (cone):			
$W_{s,cone}$ (kips)	3255.5		
$W_{w,cone}$ (kips)	161.7		
W_c (kips)	120.8		
$W_{w,cyl}$ (kips)	19.6		
Uplift Design Strength (kips)	2875.5	Factored Uplift (kips)	342.0
Tension:			
Design Tensile Strength (kips)	1094.5	Tu (kips)	342.0
Shear:			
ϕV_n (kips)	249.0	V_u (kips)	33.0
$\phi V_c=\phi 2(1+N_u/(500A_g))f'_c{}^{1/2}b_w d$ (kips)	249.0		
V_s (kips)	0.0	*** V_s max = 4 $f'_c{}^{1/2}b_w d$ (kips)	772.8
Maximum Spacing (in)	7.81	(Only if Shear Ties are Required)	
		*** Ref. ACI 11.5.5 & 11.5.6.3	
Anchor Bolt Pull-Out:			
$\phi P_c=\phi\lambda(2/3)f'_c{}^{1/2}(2.8A_{SLOPE}+4A_{FLAT})$	425.8	P_u (kips)	342.0
Rebar Development Length (in)	42.89	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

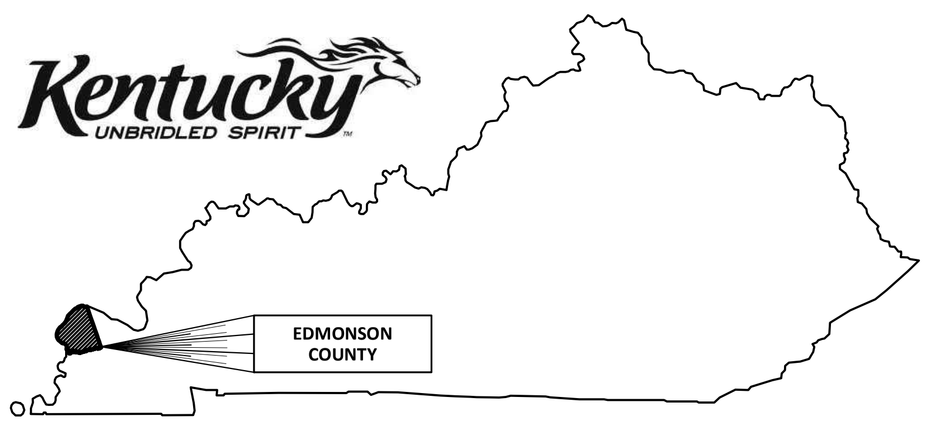
BALLARD COUNTY, KENTUCKY

VERIZON WIRELESS SITE NAME: EV BARLOW SE



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

USGS 7.5 MINUTE QUADRANGLE: BARLOW, KY



EXISTING TOWER LEGEND

A1 FCC REGISTRATION #: 1030664
CROWN CASTLE GT COMPANY LLC
LAT: 37° 03' 51.4"N
LONG: 88° 57' 23.6"W

B1 FCC REGISTRATION #: 1042698
WPSD-TV, LLC
LAT: 37° 11' 31.2"N
LONG: 88° 58' 53.2"W

C1 FCC REGISTRATION #: 1044387
AMERICAN FAMILY ASSOCIATION
LAT: 37° 11' 36.0"N
LONG: 88° 58' 40.0"W

D1 FCC REGISTRATION #: 1044596
WITHERS BROADCASTING COMPANY OF PADUCAH, LLC
LAT: 36° 56' 17.0"N
LONG: 88° 58' 01.0"W

E1 FCC REGISTRATION #: 1061534
SBA PROPERTIES, LLC
LAT: 37° 01' 59.6"N
LONG: 88° 55' 53.8"W

F1 FCC REGISTRATION #: 1222068
AMERICAN FAMILY ASSOCIATION
LAT: 36° 59' 32.1"N
LONG: 88° 59' 19.2"W

G1 (GRANTED)
FCC REGISTRATION #: 1229412
TOWERS III LLC
LAT: 37° 04' 30.1"N
LONG: 88° 52' 42.7"W

H1 FCC REGISTRATION #: 1244919
CCATT LLC
LAT: 37° 06' 39.7"N
LONG: 88° 57' 32.4"W

I1 (GRANTED)
FCC REGISTRATION #: 1252613
KENTUCKY RSA NO. 1 PARTNERSHIP
LAT: 37° 10' 55.4"N
LONG: 88° 56' 43.7"W

J1 FCC REGISTRATION #: 1265272
TV6 HOLDINGS LLC
LAT: 37° 05' 12.6"N
LONG: 88° 52' 56.7"W

K1 FCC REGISTRATION #: 1265530
KENTUCKY RSA NO. 1 PARTNERSHIP
LAT: 36° 59' 01.1"N
LONG: 89° 04' 29.2"W

L1 (GRANTED)
FCC REGISTRATION #: 1313667
KENTUCKY RSA NO. 1 PARTNERSHIP
LAT: 37° 01' 45.6"N
LONG: 88° 00' 07.6"W

M1 FCC REGISTRATION #: 1318625
KENTUCKY STATE POLICE
LAT: 36° 58' 24.9"N
LONG: 89° 04' 58.4"W

N1 (GRANTED)
FCC REGISTRATION #: 1321587
KENTUCKY RSA NO. 1 PARTNERSHIP
LAT: 37° 06' 42.1"N
LONG: 89° 02' 44.5"W

O1 FCC REGISTRATION #: 1030662
CROWN CASTLE GT COMPANY LLC
LAT: 36° 54' 35.5"N
LONG: 89° 04' 01.6"W

P1 FCC REGISTRATION #: 1009365
ILLINOIS BELL TELEPHONE COMPANY
LAT: 37° 05' 04.2"N
LONG: 89° 09' 51.5"W

Q1 FCC REGISTRATION #: 1008907
ROY WALKER COMMUNICATIONS INC
LAT: 37° 14' 18.0"N
LONG: 88° 57' 18.0"W

R1 FCC REGISTRATION #: 1315224
TILLMAN INFRASTRUCTURE, LLC
LAT: 36° 59' 49.1"N
LONG: 89° 09' 43.4"W

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

REVISIONS

REV.	DATE	DESCRIPTION
A	9.12.22	ISSUED FOR 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 HINKLEVILLE RD
LACENTER, KY 42056

SOURCE OF TITLE:
DEED BOOK 77, PAGE 464

POD NUMBER:	22-138399
DRAWN BY:	DAP
CHECKED BY:	MEP
SURVEY DATE:	6.28.19
PLAT DATE:	9.12.22

SHEET TITLE:

TOWER GRID MAP

SHEET NUMBER: (1 page)

C-1

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: 05/24/2021

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

**** Extension ****

A Determination was issued by the Federal Aviation Administration (FAA) 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)

In response to your request for an extension of the effective period of the determination, the FAA has reviewed the aeronautical study in light of current aeronautical operations in the area of the structure and finds that no significant aeronautical changes have occurred which would alter the determination issued for this structure.

Accordingly, pursuant to the authority delegated to me, the effective period of the determination issued under the above cited aeronautical study number is hereby extended and will expire on 11/24/2022 unless otherwise extended, revised, or terminated by this office. You must adhere to all conditions identified in the original determination.

This extension issued in accordance with 49 U.S.C., Section 44718 and, if applicable, Title 14 of the Code of Federal Regulations, part 77, concerns the effect of the 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 extension will be forwarded to the Federal Communications Commission (FCC) because the structure is subject to their licensing authority.

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

Signature Control No: 415690004-481750742 (EXT)
Angelique Eersteling
Technician

Attachment(s)
Additional Information

cc: FCC

All conditions previously cited in the original FAA determination will remain in effect.

KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR
Governor

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

JIM GRAY
Secretary

APPROVAL OF APPLICATION

Monday, August 22, 2022

APPLICANT
Verizon Wireless c/o CMI ACQ
121 Village Blvd
Madison, MS 39910

SUBJECT: AS-BALLARD-PAH–2022-084

STRUCTURE:	Antenna Tower
LOCATION:	Wickliffe, KY
COORDINATES:	37°01'45.61" N / 89°00'07.63" W
HEIGHT:	299' AGL / 742'AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct an Antenna Tower near Wickliffe, KY.

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 Intensity Dual Obstruction Lighting is required in accordance with 602 KAR 50:100 and FAA Advisory Circular 70/74601-1 L

Brad Schwandt
Airport Zoning Administrator
Department of Aviation
Brad.Schwandt@ky.gov
AirportZoning@ky.gov

Date: February 28, 2020

POD Job Number: 19-42119

GEOTECHNICAL REPORT

EV BARLOW SE

37° 01' 45.61" N
89° 00' 07.63" W

Wayside Inn Rd,
Wickliffe, KY 42087

Prepared For:

verizon

Prepared By:

POD
POWER OF DESIGN

11490 Bluegrass Parkway | Louisville, Kentucky 40299 | 502.437.5252
POWER OF DESIGN GROUP, LLC

POD
POWER OF DESIGN

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,

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

Copies submitted: (3) Mr. Mike Rerecich

LETTER OF TRANSMITTAL

TABLE OF CONTENTS

APPENDIX

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 about 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
C Undrained Shear Strength, psf	500	1000	2,500	2,500	0	2,500
Ø 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^2)	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.

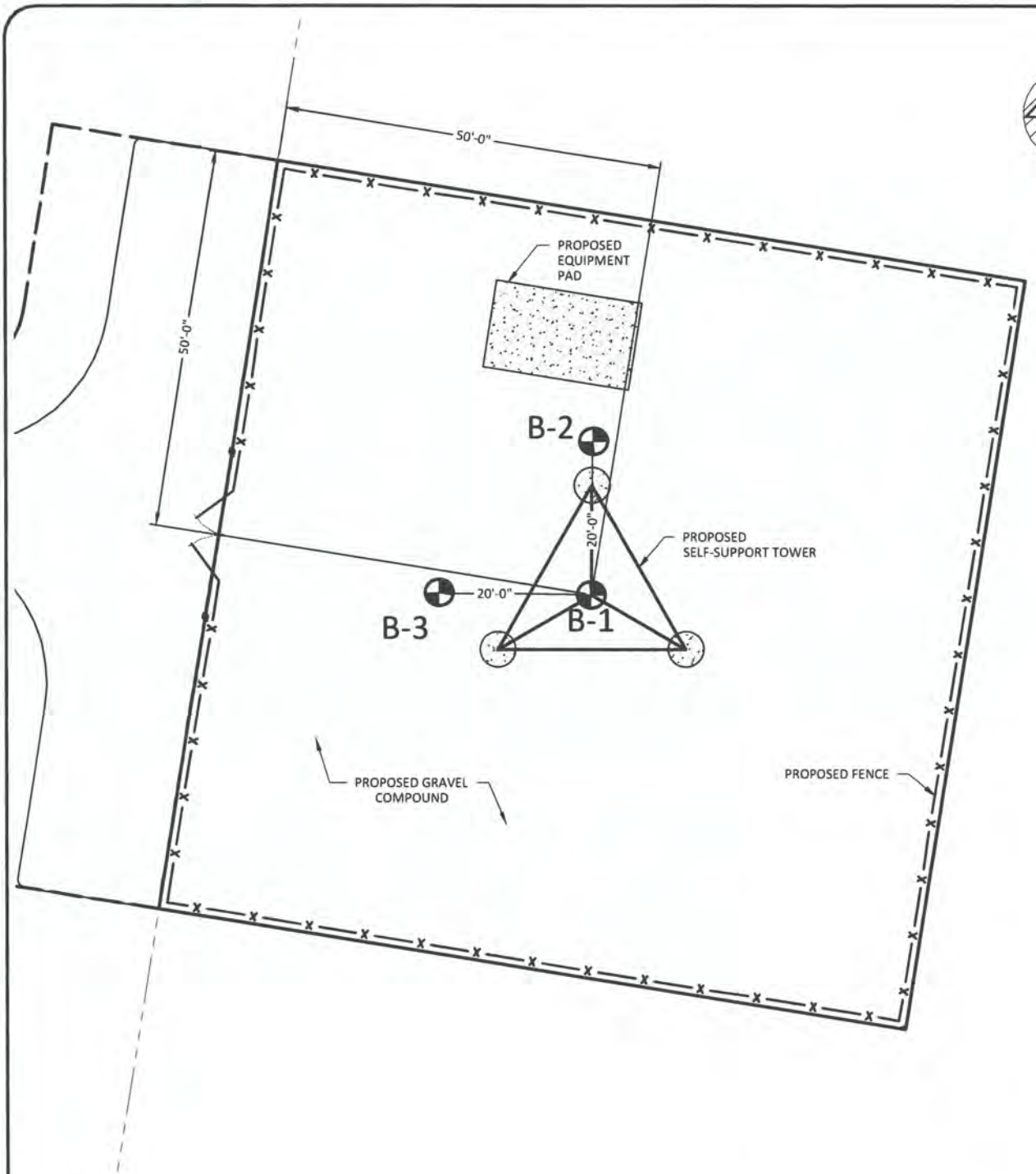
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions and to check that 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

0' 20' 40'

1"= 20'

SHEET TITLE: BORING LOCATION PLAN	LATITUDE: 37° 01' 45.61" N LONGITUDE: 89° 00' 07.63" W	SITE INFORMATION: EV BARLOW SE	POD POWER OF DESIGN 11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 502-437-5252
	TAX PARCEL NUMBER: 37-17-03 DEED BOOK 77, PAGE 464	WAYSIDE INN RD WICKLIFFE, KY 42087 BALLARD COUNTY	
SHEET NUMBER: 1	POD NUMBER: 19-42119 DRAWN BY: POD CHECKED BY: MEP DATE: 2.13.20	OWNER INFORMATION: LOREA & KENNY TURNER 5874 HINKLEVILLE RD LACENTER, KY 42056	KENTUCKY RSA 1 PSHP verizon 1421 HOLLOWAY ROAD LOUISVILLE, KY 40299

POD
POWER OF DESIGN

Boring Log

Boring: B-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	1-2.5	SS	1, 1, 2	18	3,			28%		0.0
	3.5	- medium stiff	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	- very moist	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	18.5-20	SS	5, 7, 10	10	17,			18%		4.5
	23.5	- hard, moist with gravel, sand and chert	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										

POD
POWER OF DESIGN

Boring Log

Boring: B-2

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	1-2.5	SS	0, 1, 3	13	4,			27%		1.0
	3.5	- medium stiff, brown-gray	3.5 -5	SS	2, 3, 3	14	6,			24%		2.0
	6.0	- light brown	6-7.5	SS	3, 3, 4	18	7,			25%		1.0
	8.5	- soft, very moist	8.5-10	SS	2, 2, 2	15	4,			26%		0.5
	13.5	- medium stiff	13.5-15	SS	2, 3, 5	16	8,			23%		1.0
	17.0	- red with rock and chert fragments	18.5-20	SS	7, 12, 17	12	29,			14%		2.0
		Boring Terminated at 20 feet										

POD
POWER OF DESIGN

Boring Log

Boring: B-3

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
		Boring Terminated at 20 feet										

SOIL SAMPLE CLASSIFICATION

FINE AND COARSE GRAINED SOIL INFORMATION

COARSE GRAINED SOILS (SANDS & GRAVELS)

N	Relative Density
0-4	Very Loose
5-10	Loose
11-20	Firm
21-30	Very Firm
31-50	Dense
Over 50	Very Dense

FINE GRAINED SOILS (SILTS & CLAYS)

N	Consistency	Qu, KSF Estimated
0-1	Very Soft	0-0.5
2-4	Soft	0.5-1
5-8	Firm	1-2
9-15	Stiff	2-4
16-30	Very Stiff	4-8
Over 31	Hard	8+

PARTICLE SIZE

Boulders	Greater than 300 mm (12 in)
Cobbles	75 mm to 300 mm (3 to 12 in)
Gravel	4.74 mm to 75 mm (3/16 to 3 in)
Coarse Sand	2 mm to 4.75 mm
Medium Sand	0.425 mm to 2 mm
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)

Percent RQD	Quality
0-25	Very Poor
25-50	Poor
50-75	Fair
75-90	Good
90-100	Excellent

ROCK HARDNESS

Very Hard:	Rock can be broken by heavy hammer blows.
Hard:	Rock cannot be broken by thumb pressure, but can be broken by moderate hammer blows.
Moderately Hard:	Small pieces can be broken off along sharp edges by considerable hard thumb pressure; can be broken with light hammer blows.
Soft:	Rock is coherent but breaks very easily with thumb pressure at sharp edges and crumbles with firm hand pressure.
Very Soft:	Rock disintegrates or easily compresses when touched; can be hard to very hard soil.

$$\text{Recovery} = \frac{\text{Length of Rock Core Recovered}}{\text{Length of Core Run}} \times 100$$

63 REC

$$\text{RQD} = \frac{\text{Sum of 4 in. and longer Rock Pieces Recovered}}{\text{Length of Core Run}} \times 100$$

NQ

43 RQD

Core Diameter	Inches
BQ	1-7/16
NQ	1-7/8
HQ	2-1/2

SYMBOLS

KEY TO MATERIAL TYPES

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

ROCKS	
Symbols	Typical Names
	Limestone or Dolomite
	Shale
	Sandstone

SOIL PROPERTY SYMBOLS

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

SAMPLING SYMBOLS

SS	Split Spoon Sample
UD	Relatively Undisturbed Sample
Core 1	Rock Core Sample

DIRECTIONS TO SITE

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.

Prepared by:
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

SITE NAME: EV Barlow SE
SITE NUMBER: 495687
ATTY/DATE

LAND LEASE AGREEMENT

This Land Lease Agreement (the "Agreement") made this 13 day of January 2020, 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 Cellco 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 (1st) day of the month following the Commencement Date (as hereinafter defined). The

"Commencement Date" shall be the first (1st) 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 (1st) 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 $2,000,000 for injury to or death of one or more persons in any one occurrence and $2,000,000 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.

LESSOR:

Connie B. Dowdy

WITNESS

Kenny Turner

Kenny Turner

Lorea Turner

Lorea Turner

Date: 08-13-2019

LESSEE:

CELLCO PARTNERSHIP d/b/a Verizon Wireless

By: _____

Its: Ed Maher
Director - Network Field Engineering

Date: 1/13/2020

WITNESS

Abigail Ball

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 42768, 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

verizon

2421 HOLLOWAY ROAD
LOUISVILLE, KY 40299

EV BARLOW SE

WAYSIDE INN RD
WICKLIFFE, KY 42087
BALLARD COUNTY

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

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.

PROJECT SUMMARY

VERIZON WIRELESS SITE
EV BARLOW SE
PROJECT#: 20181808888
LOCATION CODE: 2505006

SITE ADDRESS
WAYSIDE INN RD
WICKLIFFE, KY 42087
BALLARD COUNTY
E911 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 & KENNY TURNER
5874 HINKLEVILLE RD
LACENTER, KY 42056
CONTACT: LOREA TURNER
PHONE: (270) 836-7061
E-MAIL: LORITURNER@GMAIL.COM

POLICE
BALLARD COUNTY SHERIFF
437 OHIO ST
WICKLIFFE, KY 42087
PHONE: (270) 335-3561

FIRE
LACENTER FIRE DEPARTMENT
175 E 4TH ST
LACENTER, KY 42056
PHONE: (270) 665-9123

GENERAL INFORMATION
LATITUDE : 37° 01' 45.61" N
LONGITUDE : 89° 00' 07.63" W
1983 (NAD83)
ELEVATION : 443.00' AMSL
1988 (NAVD88)

VERIZON WIRELESS LEASE AREA
100'-0" X 100'-0"
(10,000 SF)

PROJECT DESCRIPTION

VERIZON WIRELESS SCOPE (VZW GC):

- INSTALL A NEW 290' SELF SUPPORT TOWER w/ 5' LIGHTNING ROD (TOTAL 295')
- INSTALL A NEW TOWER FOUNDATION SYSTEM
- INSTALL A NEW 98'X98' FENCED GRAVEL COMPOUND
- INSTALL A NEW SITE H-FRAME
- INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE H-FRAME
- INSTALL A NEW GRAVEL ACCESS DRIVE
- REMOVE 345' OF EXISTING FENCE
- INSTALL 466' OF FENCE TO MATCH EXISTING
- INSTALL 12'-6" CATTLE GATE
- NO WATER OR SEWAGE SERVICES RUN TO SITE
- INSTALL NEW TOWER & SITE GROUNDING SYSTEM
- INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM
- INSTALL A NEW 11'-6"x19'-6" CONCRETE EQUIPMENT PAD
- INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP WITHIN VZW EQUIPMENT PAD TO UTILITY H-FRAME
- INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC ENCLOSURE STUB-UPS TO EQUIPMENT ENCLOSURE STUB-UPS WITHIN VZW EQUIPMENT PAD
- INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME UT FIBER LOCATION
- 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
- 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
- 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
- INSTALL A NEW 11'-6"x14'-9" PREFABRICATED CANOPY ON EXISTING CONCRETE PAD FOUNDATION
- INSTALL VZW ICE BRIDGE AND FOUNDATIONS
- INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
- INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT
- INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES
- INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
- INSTALL CIRCUITS FROM VZW ILC TO VZW EQUIPMENT ENCLOSURES
- INSTALL NEW OUTDOOR OVP AND CABLING H-FRAME SUPPORT
- INSTALL (2) 1-1/4" & (1) 1" INNERDUCTS WITH PULL TAPES AND TRACER WIRE WITHIN INSTALLED "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUITS

APPLICABLE CODES

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

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)

ACCESSIBILITY REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2009 IBC BUILDING CODE.

CONSULTANT TEAM

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: 2900 IRVIN COBB DR
PADUCAH, KY 42003
CONTACT: TBD
PHONE: (270) 442-7321
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	
TE-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

VICINITY MAP

LOCATION MAP

AERIAL

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

CELLCO PARTNERSHIP
D/B/A
verizon
2421 HOLLOWAY ROAD
LOUISVILLE, KY 40299

PRELIMINARY
NOT FOR
CONSTRUCTION

PRELIMS

REV.	DATE	DESCRIPTION
A	7.23.19	ISSUED FOR REVIEW

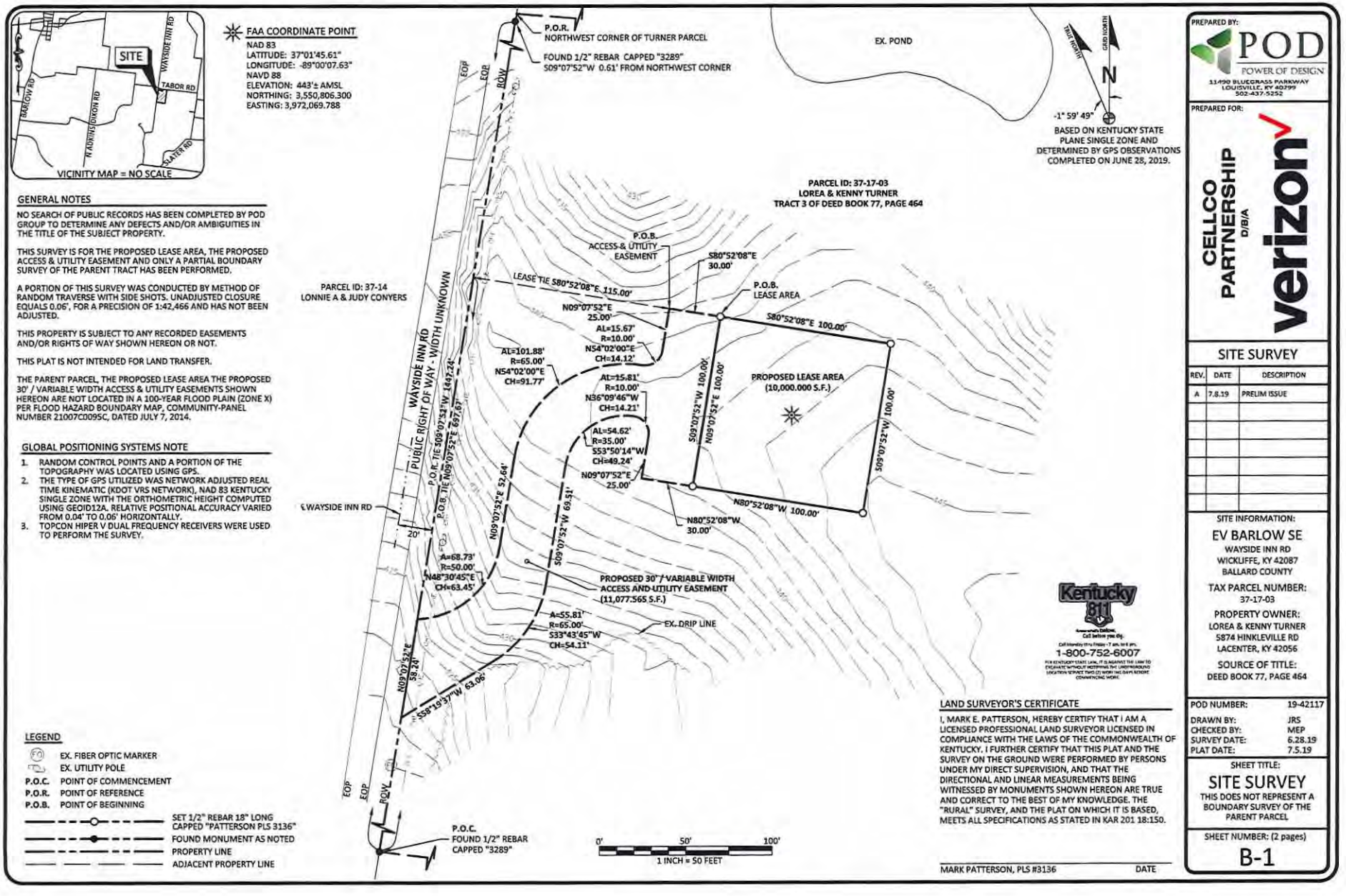
SITE INFORMATION:

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

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

SHEET TITLE:
PROJECT INFORMATION, SITE MAPS, SHEET INDEX

SHEET NUMBER:
T-1



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

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), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.06' 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
- SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
- FOUND MONUMENT AS NOTED
- PROPERTY LINE
- ADJACENT PROPERTY LINE

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

PREPARED FOR:
CELLCO PARTNERSHIP D/B/A verizon

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
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

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.

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

PREPARED FOR:
CELLCO PARTNERSHIP D/B/A verizon

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
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

REVISION LOG

REV *	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	7/23/2019	ALL SHEETS	ISSUED FOR REVIEW

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

CELLCO PARTNERSHIP
D/B/A
verizon

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

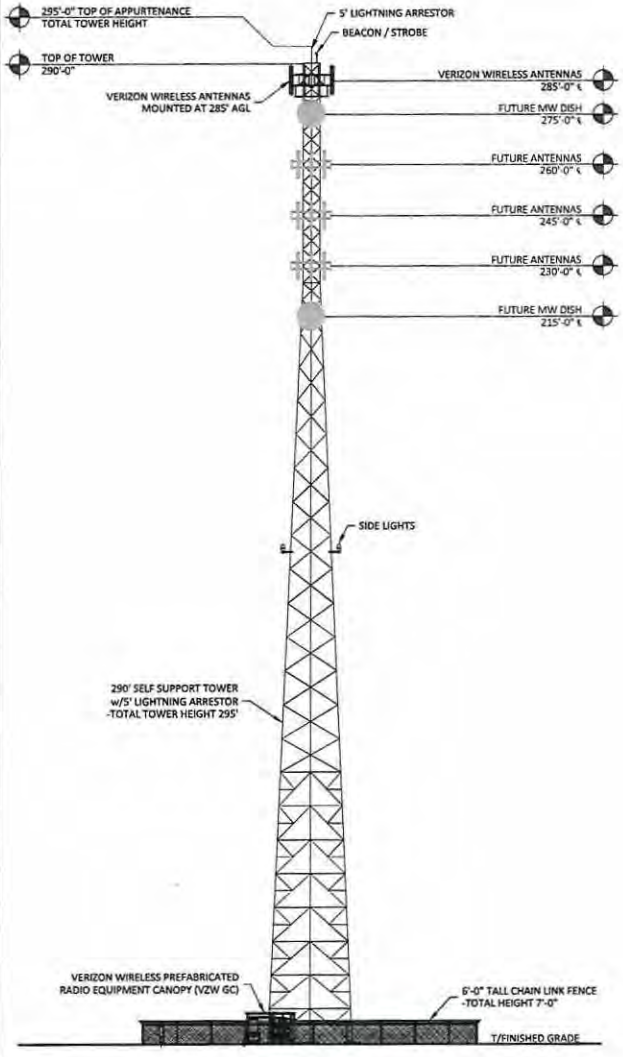
POD NUMBER:	19-42124
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	07.11.19

SHEET TITLE:

REVISION LOG

SHEET NUMBER:

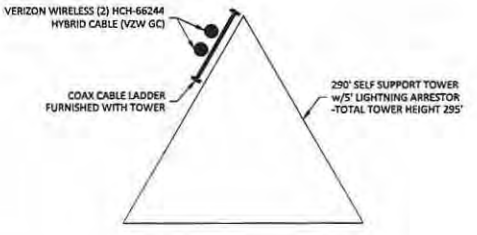
R-1



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

NOTE:

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELLCO 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.

N

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

CELLCO PARTNERSHIP
D/B/A
verizon
2421 HOLLOWAY ROAD
LOUISVILLE, KY 40299

PRELIMINARY
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PRELIMS

REV.	DATE	DESCRIPTION
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SITE INFORMATION:

EV BARLOW SE

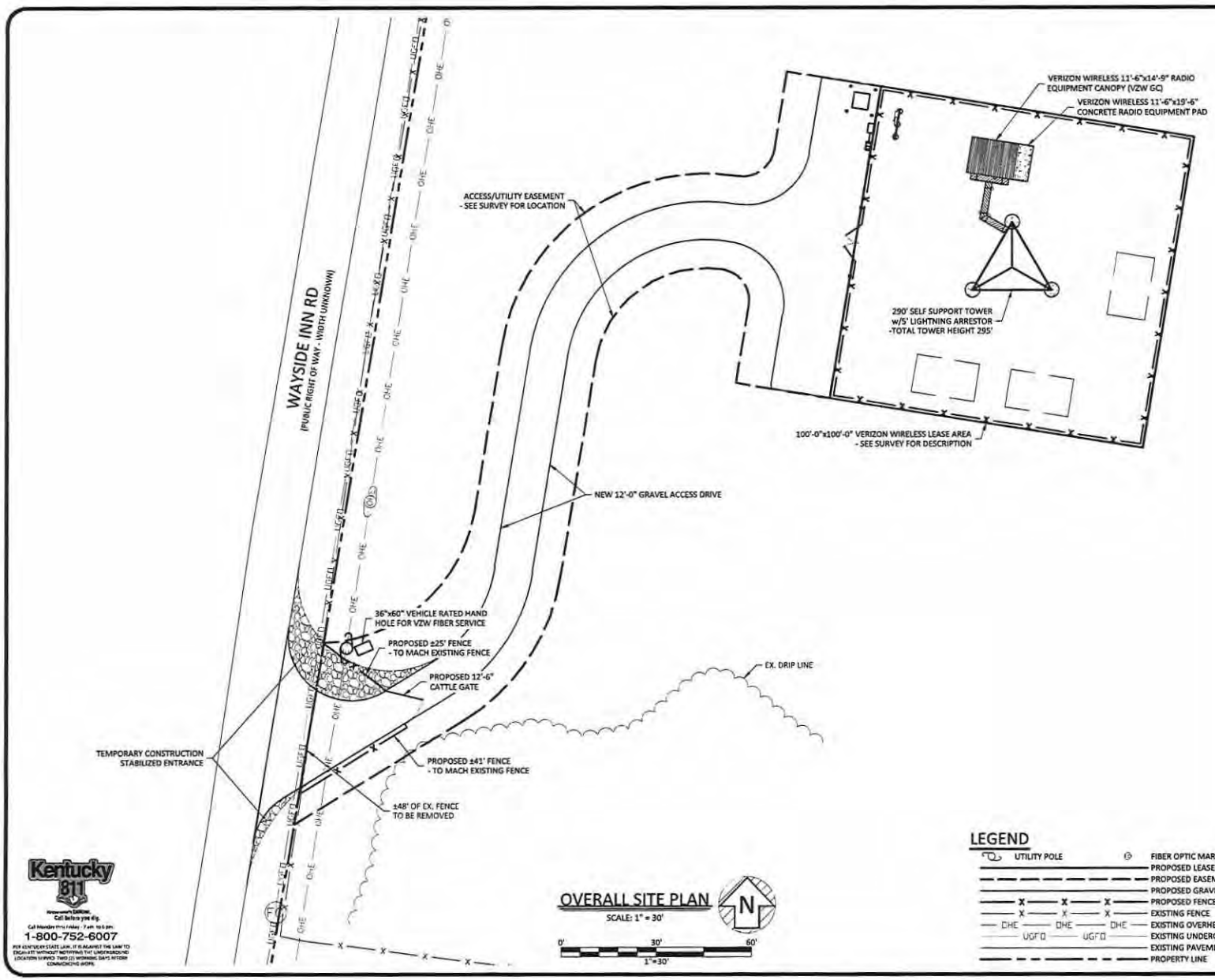
WAYSIDE INN RD
WICKLIFFE, KY 42087
BALLARD COUNTY

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

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER:
TE-1



OVERALL SITE PLAN

SCALE: 1" = 30'

0' 30' 60'

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

Kentucky 811

Call before you dig.

1-800-752-6007

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

CELLCO PARTNERSHIP
D/B/A
verizon

2421 HOLLOWAY ROAD
LOUISVILLE, KY 40299

PRELIMINARY NOT FOR CONSTRUCTION

PRELIMS

REV.	DATE	DESCRIPTION
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SITE INFORMATION:

EV BARLOW SE

WAYSIDE INN RD
WICKLIFFE, KY 42087
BALLARD COUNTY

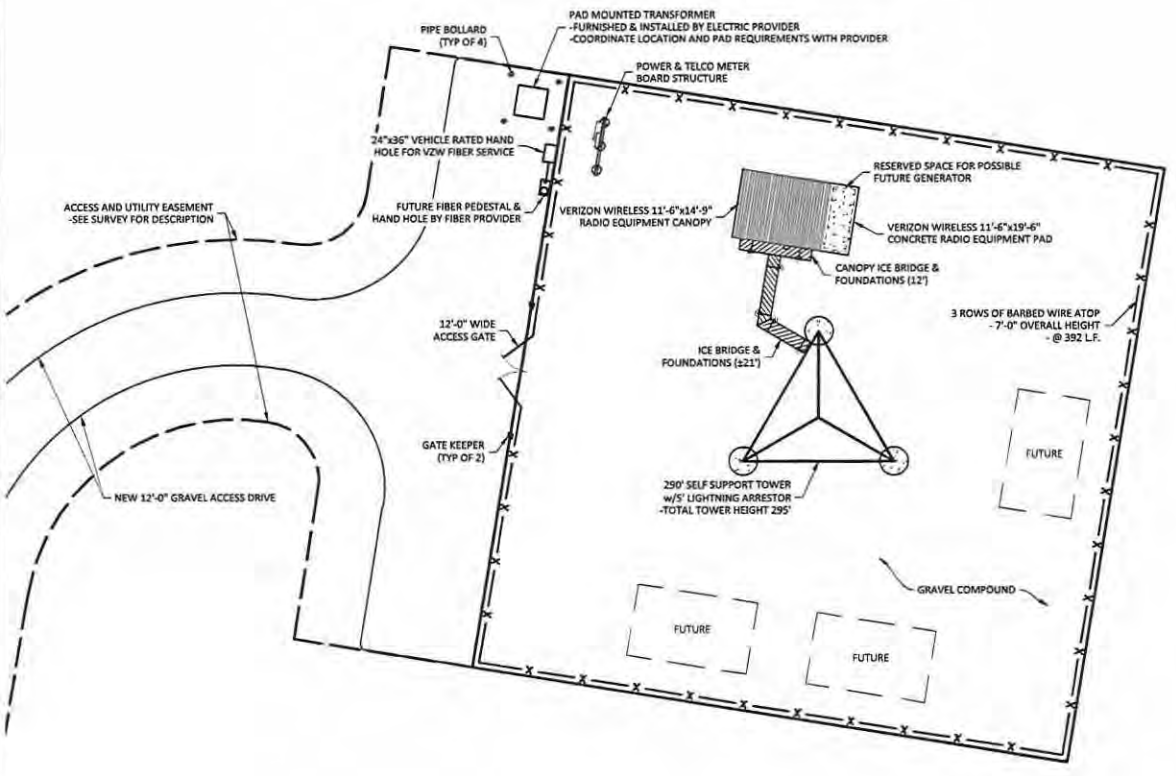
POD NUMBER:	19-42124
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	07.11.19

SHEET TITLE:

OVERALL SITE PLAN

SHEET NUMBER:

C-1A



Kentucky 811

Know what's below. Call before you dig.

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

0' 20' 40'
1"=20'

DETAILED SITE PLAN

SCALE: 1" = 20'

N

LEGEND

- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- PROPOSED FENCE

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
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CELLCO PARTNERSHIP
D/B/A
verizon
2421 HOLLOWAY ROAD
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PRELIMINARY NOT FOR CONSTRUCTION

PRELIMS

REV.	DATE	DESCRIPTION
A	7.23.19	ISSUED FOR REVIEW

SITE INFORMATION:

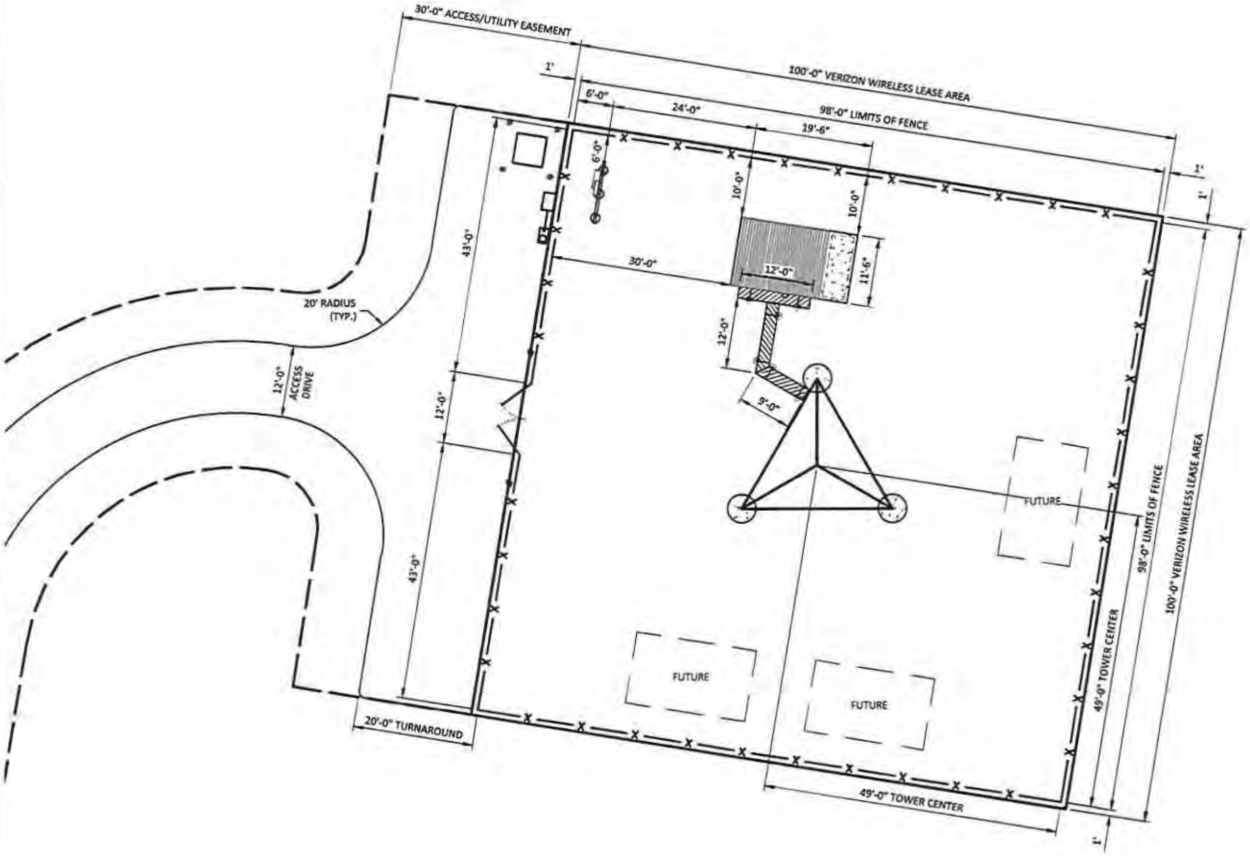
EV BARLOW SE
WAYSIDE INN RD
WICKLIFFE, KY 42087
BALLARD COUNTY

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

SHEET TITLE:

DETAILED SITE PLAN

SHEET NUMBER:
C-3



*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

Kentucky 811
Call before you dig.
1-800-752-6007

0' 20' 40'
1"=20'

DIMENSIONED SITE PLAN
SCALE: 1" = 20'
N

LEGEND

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

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

CELLCO PARTNERSHIP
D/B/A
verizon
2421 HOLLOWAY ROAD
LOUISVILLE, KY 40299

PRELIMINARY NOT FOR CONSTRUCTION

PRELIMS

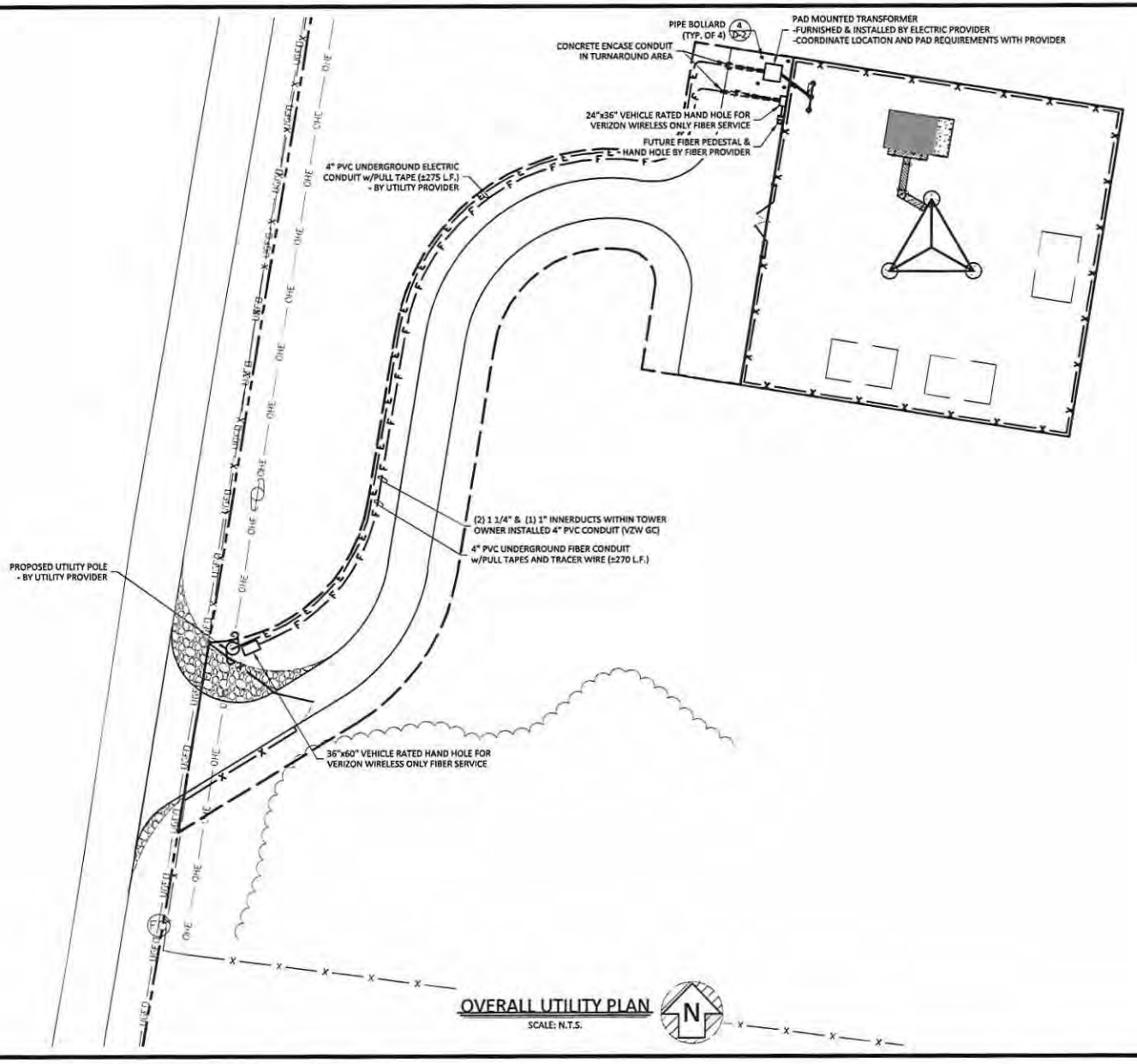
REV.	DATE	DESCRIPTION
A	7.23.19	ISSUED FOR REVIEW

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

POD NUMBER:	15-42124
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	07.11.19

SHEET TITLE:
DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4



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

CELLCO PARTNERSHIP
D/B/A
verizon

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:	19-42124
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	07.11.19

SHEET TITLE:

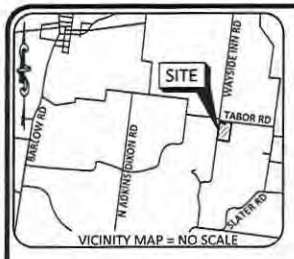
OVERALL UTILITY PLAN

SHEET NUMBER:

E-0

EXHIBIT "C"

SURVEY



VICINITY MAP = NO SCALE

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.

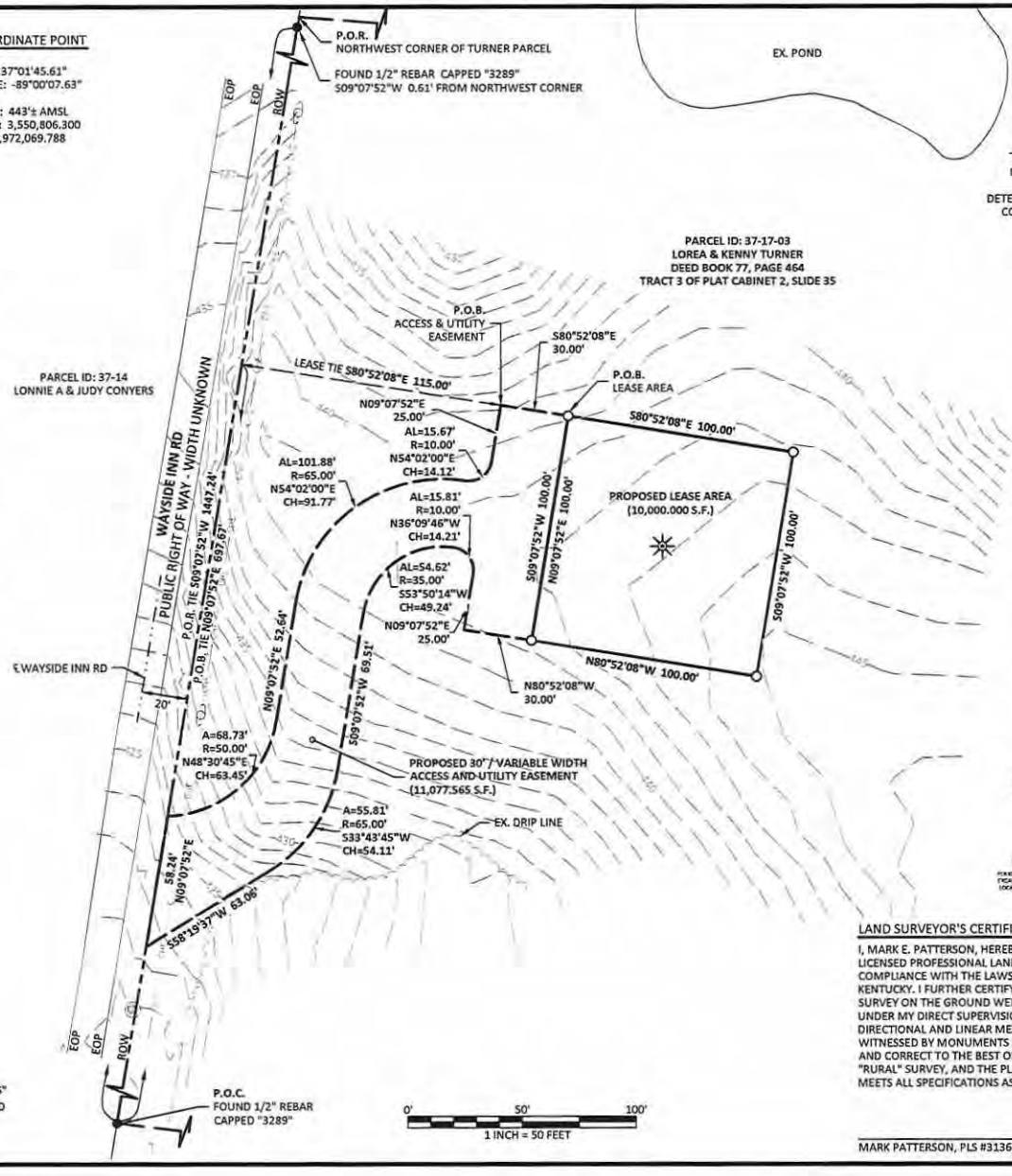
THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HEREON OR NOT.

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

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), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.06' HORIZONTALLY.
3. TOPCON HIPER V DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.



LEGEND

- FO — 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
- SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
- FOUND MONUMENT AS NOTED
- PROPERTY LINE
- ADJACENT PROPERTY LINE

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

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

PREPARED FOR:
CELLCO PARTNERSHIP D/B/A verizon

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 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

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, PLS #3136 DATE

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

PREPARED FOR:
CELLCO PARTNERSHIP D/B/A verizon

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 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

Notification List

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

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

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

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

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

PARCEL ID: 37-17-01
ABERNATHY LYNN S
3781 TABOR ROAD
BARLOW KY 42024

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

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

ClarkQuinn

www.clarkquinnlaw.com

Russell L. Brown
Attorney at Law
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100
Indianapolis, IN 46204
(317) 637-1321 main
(317) 687-2344 fax

November 18, 2022

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

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 on the east side of Wayside Inn Road, Wickliffe, KY 42087 (North Latitude: (37° 01' 45.61", West Longitude 89° 00' 07.63"). The proposed facility will include a 290-foot tall antenna tower, plus a 5-foot lightning arrestor, for a total height of 295 feet with related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00385 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us at 317-637-1321 if you have any comments or questions about this proposal.

Sincerely,
Russell L. Brown

Attorney for Applicant
RLB/mnw
Enclosure

ClarkQuinn

www.clarkquinnlaw.com

Russell L. Brown
Attorney at Law
rbrown@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100
Indianapolis, IN 46204
(317) 637-1321 main
(317) 687-2344 fax

November 18, 2022

VIA CERTIFIED MAIL
7021 2720 0001 4430 7143

Hon. Todd Cooper
437 Ohio Street
Wickliffe, KY 402087

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2022- 00385
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 on the east side of Wayside Inn Road, Wickliffe, KY, 42087 (North Latitude: (37° 01' 45.61", West Longitude 89° 00' 07.63"). The proposed facility will include a 290-foot tall antenna tower, plus a 5-foot lightning arrestor, for a total height of 295 feet with 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 2022-00385 in any correspondence sent in connection with this matter.

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

Sincerely,

Russell L. Brown
Attorney for Applicants
RLB/mnw
Enclosure

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 propose to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00385 in your correspondence.

Cellco Partnership, d/b/a Verizon Wireless propose to construct a telecommunications **tower** on this site. If you have questions, please contact Clark, Quinn, Moses, Scott & Grahn, LLP, 320 N. Meridian Street, Indianapolis, IN 46204; 317-637-1321, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2022-00385 in your correspondence.

ClarkQuinn

www.clarkquinnlaw.com

Elizabeth Bentz Williams
AICP
ebw@clarkquinnlaw.com

320 N. Meridian St., Ste. 1100
Indianapolis, IN 46204
(317) 637-1321 main
(317) 687-2344 fax

November 18, 2022

VIA EMAIL: larrah@ky-news.com
advanceyeoman@gmail.com

Kentucky Publishing Inc.
1540 McCracken Blvd.
Paducah, KY 42001

RE: Legal Notice Advertisement
Site Name: Barlow SE

Dear Ms. Workman:

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

NOTICE

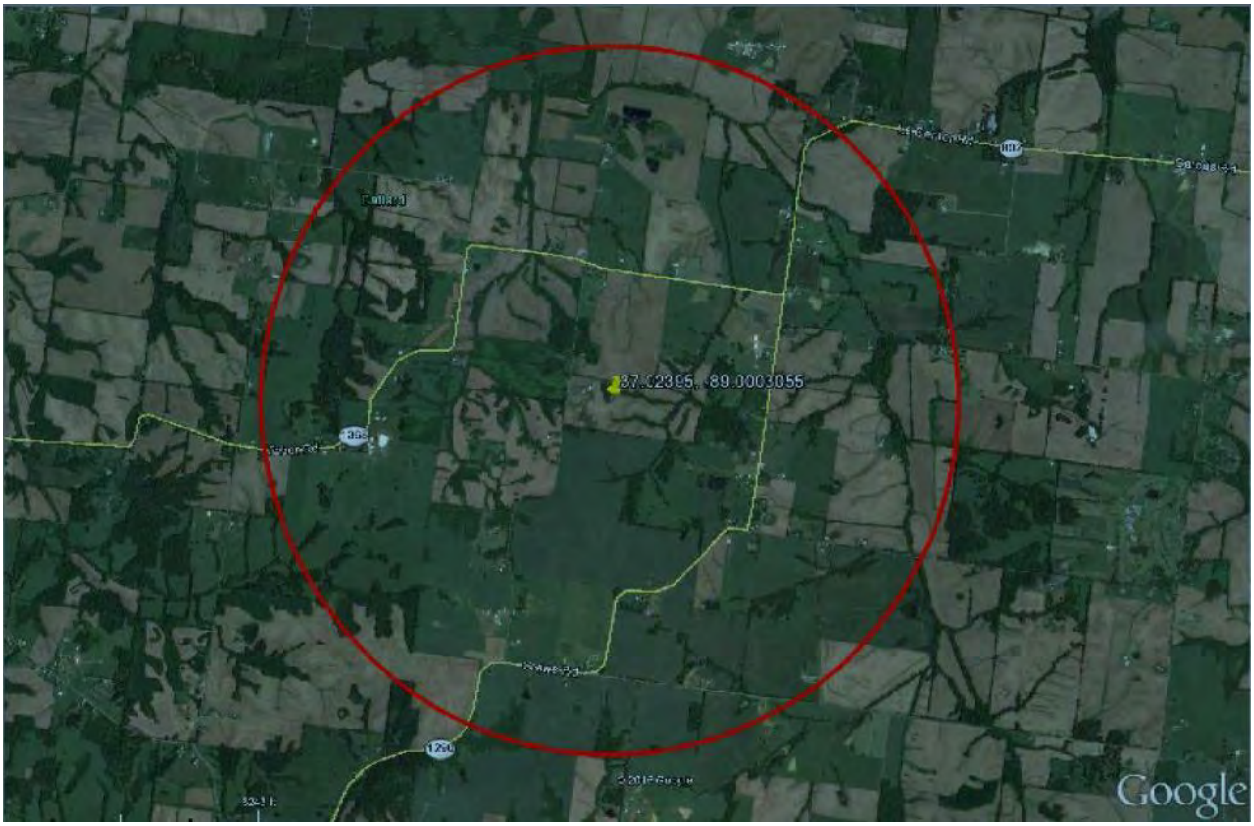
Cellco Partnership, d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on the east side of Wayside Inn Road, Wickliffe, KY, 42087 (North Latitude: (37° 01' 45.61", West Longitude 89° 00' 07.63"). 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 2022-00385 in any correspondence sent in connection with this matter.

After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Clark, Quinn, Moses, Scott & Grahn, LLC, 320 N. Meridian Street, Indianapolis, IN 46204 or by email to ebw@clarkquinnlaw.com. Please call me or Elizabeth Bentz Williams, in our offices at (317) 637-1321 if you have any questions. Thank you for your assistance.

Sincerely,

Elizabeth Bentz Williams
Clark, Quinn, Moses, Scott & Grahn, LLC

Design Search Area



verizon

Tuesday, December 10, 2019

RE: Proposed Verizon Wireless Communications Facility
Site Name: **EV Barlow SE.**
Type of Tower: 290' self-support Tower.
Location: WAYSIDE INN RD, WICKLIFFE, KY 42087.

To Whom It May Concern:

As a radio frequency engineer for Verizon Wireless, I am providing this letter to state the need for a Verizon Wireless site called **EV Barlow SE.**

The **EV Barlow SE** site is proposed with the below objectives:

1. Offload 4G traffic from busy site.
2. Improve 4G throughput to existing heavy data users.
3. Improve 4G network reliability by increasing the amount of time our customers operate on 4G instead of 3G.

Currently the area is experiencing high demand for wireless high-speed data. Growth forecasts have triggered the need for an additional site in the area. The tower is needed to provide all Verizon customers in the area with the best experience on their 4G wireless devices.

Raw Land – Design plans for a new tower would provide tower height of **290'**. The new structure height was decided upon to best cover the offload area and interact with the existing Verizon sites. If we are limited to building a structure less than the proposed height, another tower would be needed in the vicinity in the near future. In addition, building a structure that is too short can cause existing taller sites to shoot over the proposed site and building a site that is too tall can cause the proposed site to shoot over existing sites. Both situations create a poor experience from a user perspective. The new structure will be placed near the center of the area with high traffic demand and offload the surrounding sites greatly. The new tower design meets stated objectives.

Verizon Wireless cares about the communities as well as the environment and prefers to collocate on existing structures when available. It can be noticed from any map that Verizon Wireless is currently collocated on many existing structures in the area. We prefer collocation due to reduced construction costs, faster deployment, and environment protection. However, Verizon Wireless was unable to find a suitable structure within the center of demand area to collocate the proposed **EV Barlow SE** site.

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Verizon Wireless design engineers establish search area criteria in order to effectively meet coverage objectives as well as offload existing Verizon cell sites. When met, the criterion also reduces the need for a new site to cover the area in the immediate future. Each cellular site covers a limited area, depending on site configuration and the surrounding terrain. Cell sites are built in an interconnected network; which means each cell site must be located so that their respective coverage areas are contiguous. This provides uninterrupted communications throughout the coverage area.

Since collocation is generally the most cost-effective means for prompt deployment of new facilities, Verizon Wireless makes every effort to investigate the feasibility for using existing towers or other tall structures for collocation when designing a new site or system expansion. However, collocation on an existing tower or tall structure is not always feasible due to location of existing cell sites. Cell sites are placed in a way so they provide smooth hand off to each other and are placed at some distance from each other to eliminate too much overlap. Too much overlap may result in a waste of resources and raise a system capacity overload concern.

This cell site has been designed, and shall be constructed and operated in a manner that satisfies regulations and requirements of all applicable governmental agencies that have been charged with regulating tower specifications, operation, construction, and placement, including the FAA and FCC.

Sincerely,

Michael Fahim.

RF Engineer, Verizon Wireless

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STATE OF INDIANA

COUNTY OF Marion

Subscribed and sworn to before me this 10th day of December, 2019.

Notary Public

Signature _____

Printed Jennifer Behn

County of Residence Hancock

My Commission expires:

JENNIFER BEHN
Notary Public, State of Indiana
SEAL
My Commission Expires 9/3/2023

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Tuesday, December 10, 2019

RE: Ballard County Zoning Plots

Site Name: **EV Barlow SE.**

To Whom It May Concern:

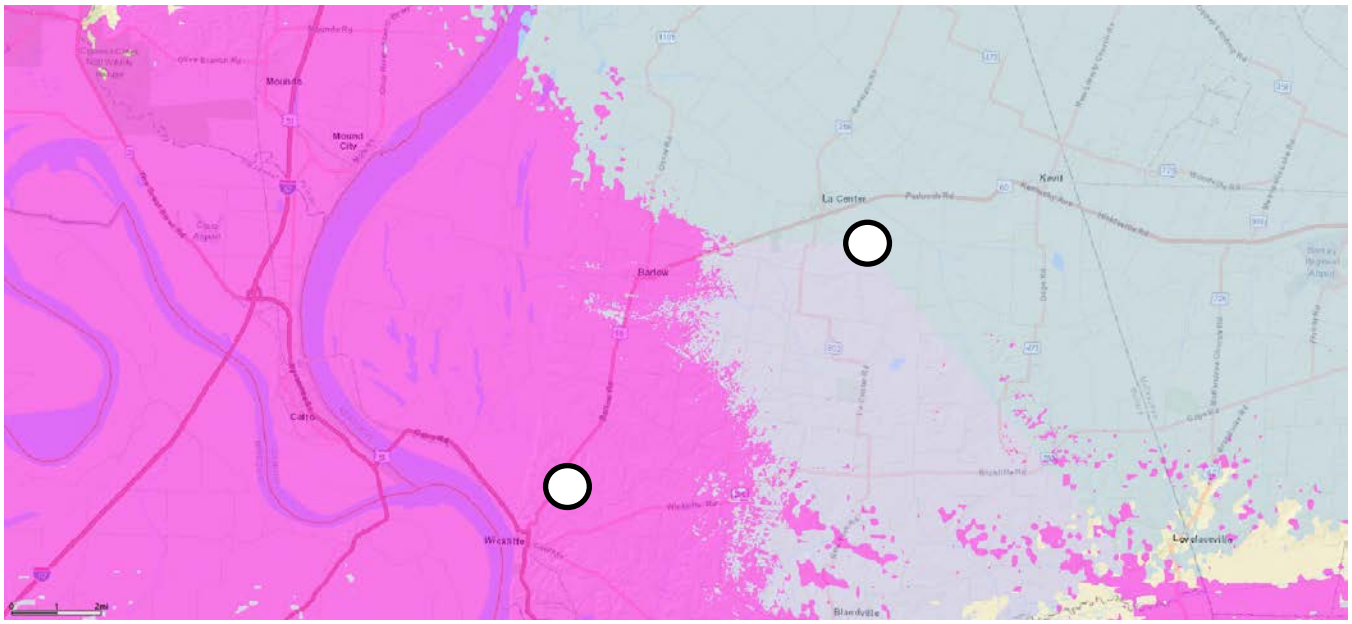
This map is not a guarantee of coverage and may contain areas with no service. This map reflects a depiction of predicted and approximate wireless coverage of the network and is intended to provide a relative comparison of coverage. The depictions of coverage do not guarantee service availability as there are many factors that can influence coverage and service availability. These factors vary from location to location and change over time. The coverage areas may include locations with limited or no coverage. Even within a coverage area shown, there are many factors, including but not limited to, usage volumes, service, outage, and customer's equipment, and terrain, proximity to buildings, foliage, and weather that may impact service.

The proposed site is needed to offload capacity from existing sites. This map reflects the predicted coverage area that will be offloaded from existing sites and transferred to the proposed site.

Michael Fahim.

RF Engineer, Verizon Wireless

EV Barlow SE Pre



Legend:

Existing Verizon Sites

Proposed Verizon Site

Future Verizon Site

County Border

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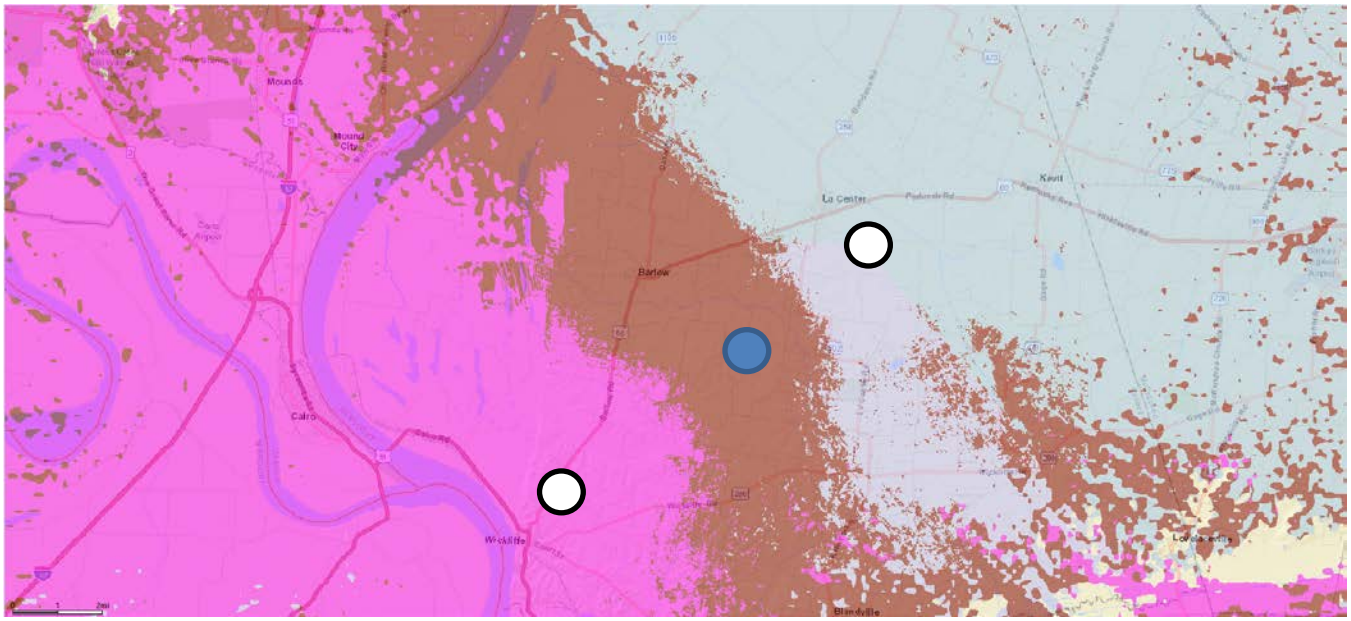
EV Barlow SE Post



Legend:

Existing Verizon Sites

Proposed Verizon Site

Future Verizon Site

County Border


EV Barlow SE Proposed Site
Johnson Rd
V F W Rd
Ballard
Stewart Rd
Mayo Ln
Faber Rd
1368
Wayside Inn Rd
Larry Powel Rd
Slater Rd
1345
Knight Rd
© 2018 Google
© 2018 Europa Technologies
Google Earth

Exhibit R
List and Identity and Qualifications of Professionals

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