

RECEIVED

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

APR 15 2019

PUBLIC SERVICE
COMMISSION

In the Matter of:

THE APPLICATION OF HORVATH)
TOWERS V, LLC FOR ISSUANCE OF)
A CERTIFICATE OF PUBLIC CONVEINCE)
AND NECESSITY TO CONSTRUCT A)
WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF WHITLEY)

CASE NO.: 2019-00117

SITE NAME: LV PLEASANT VIEW

* * * * *

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

Horvath Towers V, LLC, a Delaware limited liability company ("Applicant"), by counsel, pursuant to KRS 278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and pursuant to the Telecommunications Act of 1996, respectfully submits this Application requesting issuance of a Certificate of Public Convenience and Necessity ("CPCN") from the Kentucky Public Service Commission ("PSC") to construct, maintain, and operate a cellular tower facility ("Facility") to serve the customers of Verizon Wireless with wireless communications services.

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

1. The complete name and address of the Applicant is Horvath Towers V, LLC, a Delaware limited liability company, having an address of 312 West Colfax Avenue, South Bend, Indiana 46601.

2. Applicant proposes construction of a self-supporting tower for communications services, which is to be located in an area outside of the jurisdiction of a planning commission. Thus, Applicant submits the instant application.

3. The Certificate of Formation for Horvath Towers V, LLC is attached hereto as **Exhibit A**. The Applicant is in good standing in the state of Delaware and is authorized to transact business in the Commonwealth of Kentucky.

4. Verizon Wireless operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of Verizon Wireless' FCC license to provide wireless service is attached to this Applicant or described as part of **Exhibit A**, and the facility will be constructed and operated in accord with the applicable FCC regulations. Horvath Towers V, LLC will build, own, and manage the tower and tower compound where Verizon Wireless will place its equipment, building, antennas, and equipment.

5. The public convenience and necessity require the construction of the proposed Facility. The construction of the Facility will improve Verizon Wireless' services to an area currently not served or inadequately served by Verizon Wireless by increasing coverage and capacity, and thus enhancing access to wireless communication. The Facility will link with other Verizon Wireless sites in and around the general area, and will provide continuous coverage to other existing network sites, as well as provide an offload for the existing network, and would give Verizon Wireless an opportunity to grow their network and provide consistent coverage in and around Whitley County.

6. To accommodate the needs and opportunities described, *supra*, the Applicant proposes to construct a Facility at 140 East Church Street in Whitley County,

Kentucky (coordinates 36° 40' 57.18" N, 84° 07' 37.74" W) on land located wholly within Whitley County. The property where the Facility is to be located is owned by George and Carolyn Bowman, pursuant to a Deed recorded in Deed Book 395, Page 429 in the office of Whitley County Clerk. The Facility will consist of a 230-foot tall, self-supporting tower, with an approximately 10-foot tall lightning arrestor on the top of the Facility, for a total height of 240 feet. The Facility will also include concrete foundations and a shelter or cabinets to accommodate the placement of Verizon Wireless' equipment. Such shelter or cabinet will be inspected by the relevant authorities and certified for use prior to occupancy. The Facility will be fenced and all access to the Facility secured. A description of the manner in which the Facility will be constructed is attached hereto as **Exhibit B**.

7. A list of utilities, corporations, or persons with whom the proposed Facility is likely to compete is attached hereto as **Exhibit C**. We have defined this as other owners of towers within the county.

8. The site development plan and a vertical profile sketch of the Facility, signed and sealed by a professional engineer registered in Kentucky, depicting the tower, its height, and its proposed configuration for the antennas is attached hereto as **Exhibit D**. This Facility has been designed to permit future co-location.

9. Foundation and design plans sealed by a professional engineer registered in Kentucky and a description of the standards according to which the Facility has been designed are included with **Exhibit D**.

10. The Applicant has considered the likely effects of the installation of the proposed Facility on nearby land uses and values and have concluded that there is no

more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Verizon Wireless' antennas on an existing structure. No suitable or available co-location site was found to be located in the vicinity of the proposed Facility.

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

12. A copy of the Kentucky Airport Zoning Commission Application is attached hereto as **Exhibit F**. We anticipate a prompt decision from KAZC and will supplement our application with its approval as soon as it is available.

13. A geotechnical engineering firm has performed soil boring and subsequent geotechnical engineering studies at the Facility site. A copy of the geotechnical engineering report, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, along with the identifying information for the engineer, is attached hereto as **Exhibit G**.

14. Clear directions to the proposed Facility from the County seat, along with the name and telephone number of the preparer, are attached hereto as **Exhibit H**.

15. The Applicant, pursuant to a written agreement with the landowner, have acquired the right to use the Facility site and associated property rights. A copy of this agreement is attached hereto as **Exhibit I**.

16. Personnel directly responsible for the design and construction of the proposed Facility are qualified and experienced. The tower design and drawings bear the stamp of a professional engineer registered in the Commonwealth of Kentucky. All tower designs meet or exceed the minimum requirements of applicable law.

17. The Construction Manager for the Facility is Jeff Delauder, and the identity and qualifications of each person directly responsible for design and construction of the tower are included in **Exhibit B**.

18. The Facility is not located within any flood hazard area.

19. A map drawn to appropriate scale that shows the location of the proposed tower and identifies every owner of real estate located within 500 feet of the proposed Facility (according to records maintained by the Whitley County Property Valuation Administrator). Every structure and every easement within 500 feet of the proposed Facility or within 200 feet of the access road, including intersection with the public street system, is illustrated in **Exhibit B**.

20. The Applicant has notified every person who, according to the records maintained by the Whitley County Property Valuation Administrator, owns property which is within 500 feet of the proposed Facility 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 telephone number and address of the PSC, and has been informed of her or his right to request intervention in this matter. A list of the notified property owners is attached hereto as **Exhibit J**. A copy of the form of the notice sent by certified mail is attached hereto as **Exhibit K**.

21. Applicants have notified the Whitley County Judge/Executive by certified mail, return receipt requested, of the proposed construction. The notice included the PSC docket number under which the application will be processed and informed the

Judge/Executive of his right to request intervention. A copy of this notice is attached as **Exhibit L**.

22. Notice signs meeting the requirements of 807 KAR 5:063 Section 1 that measure at least 2 feet in height and 4 feet in width and that contain all required verbiage in letters of the required size and 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 this Application, and a copy of the text of these signs is attached hereto as **Exhibit M**. Notice of the location of the proposed facility has been published in a newspaper of general circulation in Whitley County.

23. The general area where the facility is to be located in a wooded area, near Interstate 75 and United States Highway 25.

24. The process that was used by Verizon Wireless' radio frequency ("RF") engineers in selecting the site for the Facility was consistent with the general process used for selecting all other existing and proposed Facilities within the proposed network design area. Verizon Wireless' RF engineers have conducted studies and tests in order to develop an appropriate network 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. An RF design search area prepared in reference to these RF studies was considered by the Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by Verizon Wireless. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to RF requirements is attached hereto as **Exhibit N**.

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

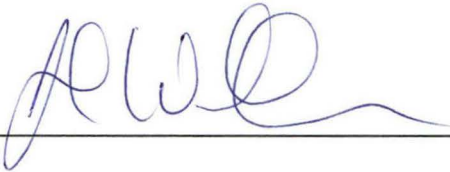
26. All Exhibits are hereby incorporated by reference as if fully set forth herein as part of the Application.

27. Any and all responses and requests related to or associated with this Application may be directed to:

W. Brent Rice
Jacob C. Walbourn
McBrayer PLLC
201 East Main Street, Suite 900
Lexington, Kentucky 40507
(859) 231-8780 (phone)
(859) 231-6518 (fax)
brice@mmlk.com
jwalbourn@mmlk.com

WHEREFORE, the Applicant respectfully requests that the PSC accept this Application for filing, and having met all relevant legal requirements, grant a Certificate of Public Convenience and Necessity to construct and operate the Facility at the location described herein.

Respectfully submitted,



W. Brent Rice
Jacob C. Walbourn
McBrayer PLLC
201 East Main Street, Suite 900
Lexington, Kentucky 40507
(859) 231-8780 (phone)
(859) 231-6518 (fax)
brice@mmlk.com
jwalbourn@mmlk.com

LIST OF EXHIBITS

Exhibit A	Corporate Documents and FCC Licenses
Exhibit B	Site Plan/Construction Detail
Exhibit C	Likely Competitors
Exhibit D	Structural Design Report
Exhibit E	FAA No Hazard Letter
Exhibit F	KAZC Application
Exhibit G	Geotechnical Report
Exhibit H	Directions from County Seat
Exhibit I	Memorandum of Lease Option
Exhibit J	Property Owner Notice List Documents
Exhibit K	Copies of Notice Letters
Exhibit L	Copy of Letter to Judge-Executive
Exhibit M	Notice Sign Language
Exhibit N	SARF/Search Ring and Need Documentation

Delaware

The First State

Page 1

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "HORVATH TOWERS V, LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE FIFTEENTH DAY OF SEPTEMBER, A.D. 2016.

AND I DO HEREBY FURTHER CERTIFY THAT THE SAID "HORVATH TOWERS V, LLC" WAS FORMED ON THE TWENTY-FIRST DAY OF JUNE, A.D. 2016.



6075355 8300

SR# 20165715271

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

A handwritten signature in black ink, appearing to read "JBULLOCK", written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed in a small font.

Authentication: 203000063

Date: 09-15-16





COMMONWEALTH OF KENTUCKY
ALIBON LUNDERGAN GRIMES, SECRETARY OF STATE

0988137.06
Alison Lundergan Grimes
Kentucky Secretary of State
Received and Filed:
06/12/2017 1:20 PM
Fee Receipt: \$90.00

Division of Business Filings
Business Filings
PO Box 718, Frankfort, KY 40602
(502) 566-3490
www.sos.ky.gov
Certificate of Authority
(Foreign Business Entity)
FBE

Pursuant to the provisions of KRS 14A and KRS 271B, 273, 274, 274.102 and 300 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 information:

1. The entity is a:
[] profit corporation (KRS 271B) [] nonprofit corporation (KRS 273) [] professional service corporation (KRS 274)
[] business trust (KRS 280) [] limited liability company (KRS 275) [] professional limited liability company (KRS 275)
[] limited partnership (KRS 302) [] US cooperative association (KRS) [] statutory trust
[] non-profit (KRS 278) [] cooperative association (KRS)

2. The name of the entity: HORVATH TOWERS V. L.L.O.
(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 (if applicable): (Only profit or "not-for-profit" is appropriate for this question, none blank.)

4. The state or country under whose laws the entity is organized is: Delaware
5. The date of organization is: 07/17/16 and the period of duration is: (With check, 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 612, Frankfort, KY 40601
Street Address (No P.O. Box Numbers) City State Zip Code

8. The name and business address of the entity's representative (secretary, officers and directors, managers, trustees or general partners):
Name: Jacqueline L. Stout, 312 West Colfax Ave., South Bend, IN 46601
Name: F. Howard Mendel, 68 West Street, Charleston, WV 44022
Name: Howard Mendel, Street or P.O. Box, City, State, Zip Code

9. If a partnership or other organization, all the individuals who are partners, members, or officers of the partnership, and all of the officers who have the authority to execute the certificate and to file the application with the Secretary of State, must be named and their names and addresses must be given.
10. If ready to file, 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 partnership. Check the box(es) applicable:
12. If a limited liability company, check box if management limited.
13. This application will be effective upon filing, unless a delayed effective date and 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 counties in which your business operates:
County: Anderson, Jefferson
To complete the following, please check the box(es) completely.
Please indicate the size of your business:
[] Small (fewer than 50 employees) [] Medium (50 to 99 employees) [] Large (100 or more employees)
Please indicate which of the following best describes your business:
[] Agriculture [] Retail [] Services [] Construction
[] Wholesale Trade [] Retail Trade [] Manufacturing [] Finance, Insurance, Real Estate
[] Public Administration [] Transportation, Communications, Electric, Gas, Sewer, Services
[] Other
Signature of Authorized Representative: Jacqueline L. Stout, Member, 06/12/2017
Signature of Registered Agent: CT Corporation System, Assistant Secretary, 06/12/2017

To download full page copies of the document, please visit our web site at www.sos.ky.gov. If you would like to request copies of the document from our office, please download the Records Request Form at www.sos.ky.gov and submit to our Records department.

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

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

Call Sign KNKN787	File Number
Radio Service CL - Cellular	
Market Numer CMA453	Channel Block B
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003290673

Market Name Kentucky 11 - Clay
--

Grant Date 08-30-2011	Effective Date 11-01-2016	Expiration Date 10-01-2021	Five Yr Build-Out Date	Print Date
---------------------------------	-------------------------------------	--------------------------------------	-------------------------------	-------------------

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	36-45-17.3 N	084-08-30.8 W	524.3	39.9	1043633

Address: 1000 Cell Tower Road

City: WILLIAMSBURG **County:** WHITLEY **State:** KY **Construction Deadline:**

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	200.600	180.500	219.200	212.500	234.200	169.900	243.100	218.400
Transmitting ERP (watts)	56.780	56.780	56.780	56.780	56.780	56.780	56.780	56.780

Conditions:

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN787

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
3	36-53-50.3 N	084-07-52.8 W	499.9	63.7	1043635

Address: 1701 Baon Creek Road

City: Corbin County: WHITLEY State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	202.900	199.800	192.800	167.500	211.500	208.200	213.700	228.300
Transmitting ERP (watts)	95.000	95.000	95.000	95.000	95.000	95.000	95.000	95.000

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	36-53-54.3 N	083-18-36.6 W	823.0	64.6	1043632

Address: HARLAN CELL SITE: 3.85 NNE OF THE TOWN OF

City: HARLAN County: HARLAN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	368.900	271.700	287.800	254.000	328.600	402.800	243.700	341.300
Transmitting ERP (watts)	85.500	57.960	14.620	8.590	9.630	25.620	70.790	90.030

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	37-01-32.0 N	083-23-58.0 W	585.2	62.8	1043681

Address: 1.4 M. SE OF ASHER ON US 421

City: ASHER County: LESLIE State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	256.800	216.300	149.100	72.700	82.000	114.500	212.500	189.800
Transmitting ERP (watts)	46.770	46.770	46.770	46.770	46.770	46.770	46.770	46.770

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	37-07-43.8 N	083-50-13.0 W	400.5	94.8	1043631

Address: HOOKER CELL SITE

City: HOOKER County: CLAY State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	145.400	184.500	146.700	123.100	129.300	116.500	102.700	148.700
Transmitting ERP (watts)	0.500	0.500	0.500	0.500	9.820	155.580	186.180	16.220

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN787

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	37-07-43.8 N	083-50-13.0 W	400.5	94.8	1043631

Address: HOOKER CELL SITE

City: HOOKER County: CLAY State: KY Construction Deadline:

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	145.400	184.500	146.700	123.100	129.300	116.500	102.700	148.700
Transmitting ERP (watts)	11.560	166.090	173.920	14.030	0.500	0.500	0.500	0.500

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	36-38-53.0 N	083-41-25.0 W	658.4	48.8	1043630

Address: 1.5 M. S OF TOWN OF MELDRUM, 0.5M. E OF WILDERNESS RD.

City: MELDRUM County: BELL State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	266.800	276.600	128.400	248.000	277.600	172.400	2.700	220.900
Transmitting ERP (watts)	8.810	8.810	8.810	8.810	8.810	8.810	8.810	8.810

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	36-53-49.1 N	082-37-19.4 W	1266.1	54.9	1017591

Address: SITE 25 EAGLE KNOTS COMMUNICATIONS COMPLEX

City: NORTON County: WISE State: VA Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	620.200	555.500	438.400	674.700	669.500	364.900	646.800	626.900
Transmitting ERP (watts)	0.100	0.590	5.240	4.990	5.970	4.010	0.120	0.100

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	620.200	555.500	438.400	674.700	669.500	364.900	646.800	626.900
Transmitting ERP (watts)	0.190	0.110	0.110	0.110	0.350	6.680	16.910	6.380

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	620.200	555.500	438.400	674.700	669.500	364.900	646.800	626.900
Transmitting ERP (watts)	20.560	17.930	1.350	0.120	0.120	0.120	0.120	2.500

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN787

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	37-09-19.2 N	083-26-33.1 W	516.6	98.8	1043811

Address: DAVIDSON FORK ROAD

City: THOUSAND STICKS County: LESLIE State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	232.900	234.900	221.200	165.800	154.800	201.900	224.800	191.100
Transmitting ERP (watts)	7.100	2.740	7.900	89.900	0.760	0.770	1.540	82.610

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	36-45-42.1 N	083-40-29.0 W	685.2	129.5	1215974

Address: ROUTE 7 BOX 264 E

City: Pineville County: BELL State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	297.500	224.000	311.400	274.200	346.800	324.200	330.200	379.700
Transmitting ERP (watts)	34.700	34.700	34.700	34.700	34.700	34.700	34.700	34.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-08-58.7 N	083-45-07.4 W	452.6	96.0	1043808

Address: Manchester Shopping Center on Lucas Road

City: Manchester County: CLAY State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	197.300	183.800	133.200	173.100	167.800	171.800	192.400	174.100
Transmitting ERP (watts)	84.670	84.670	86.190	88.220	86.450	84.670	84.670	84.670

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	36-49-06.0 N	083-50-57.0 W	554.7	32.0	

Address: On Top of Brush Hill

City: Artemus County: KNOX State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	243.500	224.500	199.100	156.200	167.100	216.000	237.500	245.400
Transmitting ERP (watts)	50.580	70.320	76.300	36.410	5.640	0.250	0.870	9.070

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN787

File Number:

Print Date:

Control Points:

Control Pt. No. 1

Address: 1.0 MI. WSW from intersection of I-75 and State Highway 80 P

City: Laurel **County:** **State:** KY **Telephone Number:**

Control Pt. No. 2

Address: Route 7 Box 264, Bird Branch Road

City: Pineville **County:** BELL **State:** KY **Telephone Number:**

Waivers/Conditions:

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



312 WEST COLFAX AVE
SOUTH BEND, IN 46601

**NEW 230' SELF SUPPORT w/10' LIGHTNING ARRESTOR
TOTAL TOWER HEIGHT 240'**

PLEASANT VIEW

HV1363

140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

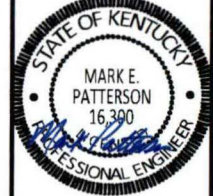
TENANT: CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS
"LV PLEASANT VIEW"

FROM WHITLEY COUNTY CLERK: 200 MAIN ST #2, WILLIAMSBURG, KY 40769: HEAD SOUTHWEST ON MAIN ST TOWARD N 3RD ST (177 FEET). TURN LEFT ONTO S 3RD ST (282 FEET). TURN LEFT AT THE 1ST CROSS STREET ONTO CLUMBERLAND AVE (0.2 MILES). TURN RIGHT ONTO HWY 25 S (5.3 MILES). TURN LEFT ONTO E CHURCH ST (0.2 MILES). TURN LEFT ONTO TRAIN VIEW LANE (0.1 MILES). SITE WILL BE LOCATED AT END OF ROAD.

FROM LOUISVILLE MTSO: 2421 HOLLOWAY ROAD LOUISVILLE, KY 40299: HEAD SOUTH ON HOLLOWAY RD TOWARD PLANTSIDE DR (2.1 MILES). TURN LEFT AT THE 1ST CROSS STREET ONTO PLANTSIDE DR (0.9 MILES). USE THE LEFT 2 LANES TO TURN LEFT ONTO BLANKENBAKER PKWY (0.7 MILES). USE THE RIGHT LANE TO TAKE THE RAMP ONTO I-64 E (0.3 MILES). MERGE ONTO I-64 E (63.6 MILES). KEEP RIGHT AT THE FORK TO CONTINUE ON I-75 S (101 MILES). TAKE EXIT 11 TOWARD KY-92 E (0.2 MILES). KEEP LEFT AT THE FORK AND MERGE ONTO KY-92 E (322 FEET). MERGE ONTO KY-92 E (0.3 MILES). TURN RIGHT ONTO HWY 25 S (3.9 MILES). TURN LEFT ONTO E CHURCH ST (0.2 MILES). TURN LEFT ONTO TRAIN VIEW LANE (0.1 MILES). SITE WILL BE LOCATED AT END OF ROAD.



3/8/2019



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	1.24.19	ISSUED FOR REVIEW
D	3.8.19	ISSUED AS FINAL

**SITE INFORMATION:
PLEASANT VIEW**

140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

HORVATH COMMUNICATIONS SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32362

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.23.19

SHEET TITLE:
PROJECT INFORMATION, SITE MAPS, SHEET INDEX

SHEET NUMBER:
T-1

HORVATH COMMUNICATIONS SITE
PLEASANT VIEW
SITE #: HV1363
VERIZON WIRELESS SITE
LV PLEASANT VIEW
PROJECT#: 20181804304
LOCATION CODE: 494540
SITE ADDRESS
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY
5911 ADDRESS: TBD
TOWER OWNER
HORVATH COMMUNICATIONS
312 W COLFAX AVE
SOUTH BEND, IN 46601
CONTACT: JORDAN (FREEZE)
HOEPPNER
PHONE: (574) 237-0464
E-MAIL: JFREEZE@
HORVATHCOMMUNICATIONS.COM
PROPERTY OWNER
GEORGE B. & CAROLYN BOWMAN
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
PHONE: (606) 280-2599

POLICE
WHITLEY COUNTY SHERIFF
200 MAIN ST #4
WILLIAMSBURG, KY 40769
PHONE: (606) 549-6006

FIRE
PLEASANT VIEW VOLUNTEER FIRE DEPARTMENT
59 WOLF CREEK RIVER RD
WILLIAMSBURG, KY 40769
PHONE: (606) 549-6019

GENERAL INFORMATION
LATITUDE: 36° 40' 57.18" N
LONGITUDE: 84° 07' 37.74" W
1983 (NAD83)
ELEVATION: 588.00' AMSL
1988 (NAVDS88)
HORVATH COMMUNICATIONS LEASE AREA
100'-0" x 100'-0"
(10,000 SF)

NOTE: ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS UNLESS NOTED AS VOW GC WHICH SHALL INCLUDE VERIZON WIRELESS GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS, GENERALLY DESCRIBED BELOW:
HORVATH COMMUNICATIONS SCOPE
• INSTALL A NEW 230' SELF SUPPORT w/ 10' LIGHTNING ROD (TOTAL 240')
• INSTALL A NEW TOWER FOUNDATION SYSTEM
• INSTALL A NEW 6'X6' FENCED GRAVEL COMPOUND
• INSTALL A NEW SITE H-FRAME
• INSTALL NEW TOWER LIGHTING AND TOWER LIGHTING CONTROLLER (SUPPLIED BY IFL LLC)
• INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE H-FRAME
• INSTALL A NEW GRAVEL ACCESS DRIVE
• NO WATER OR SEWAGE SERVICES RUN TO SITE
• INSTALL NEW TOWER & SITE GROUNDING SYSTEM
• INSTALL NEW VZW SURFACE GROUNDING SYSTEM
• INSTALL A NEW 11'-6"X18'-0" 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 DVP 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" 38" 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 SERVICE 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 (VOW GC)
• INSTALL A NEW 11'-6"X18'-0" PREFABRICATED CANOPY ON EXISTING CONCRETE PAD FOUNDATION
• INSTALL VOW ICE BRIDGE AND FOUNDATIONS
• INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
• INSTALL VZW ANTENNAS, LINES, COAX, OPS ANTENNA AND RADIO EQUIPMENT
• INSTALL EXISTING SURFACE GROUNDING LEADS TO VZW EQUIPMENT & FACILITIES
• INSTALL VZW ELECTRICAL SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
• INSTALL CIRCUITS FROM VZW ILC TO VZW EQUIPMENT ENCLOSURE
• INSTALL NEW OUTDOOR OVP AND CABLING H-FRAME SUPPORT
• INSTALL (2) 1-1/4" & (1) 1" INTERDUCTS 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 2013 KENTUCKY BUILDING CODE (KBC 2012)
STRUCTURAL CODE TAVER-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 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
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
JELICO ELECTRIC & WATER SYSTEM
ADDRESS: 410 S MAIN ST,
JELICO, TN 37762
CONTACT: TBD
PHONE: (423) 784-8431
EMAIL: TBD
ELECTRICAL UTILITY COORDINATION
IS NOT FINALIZED. DO NOT PROCEED WITH CONSTRUCTION.

SHEET NUMBER
T-1
B-1 TO B-1.4
R-1
R-2
TOWER ELEVATION
TE-1
CIVIL
C-1
C-1A
C-3
C-4

DESCRIPTION
PROJECT INFORMATION, SITE MAPS, SHEET INDEX
SITE SURVEY
500' RADIUS AND ABUTTERS MAP
REVISION LOG
TOWER ELEVATION
OVERALL SITE PLAN w/AERIAL OVERLAY
OVERALL SITE PLAN
DETAILED SITE PLAN
DIMENSIONED SITE PLAN

PROJECT SUMMARY



VICINITY MAP

PROJECT DESCRIPTION



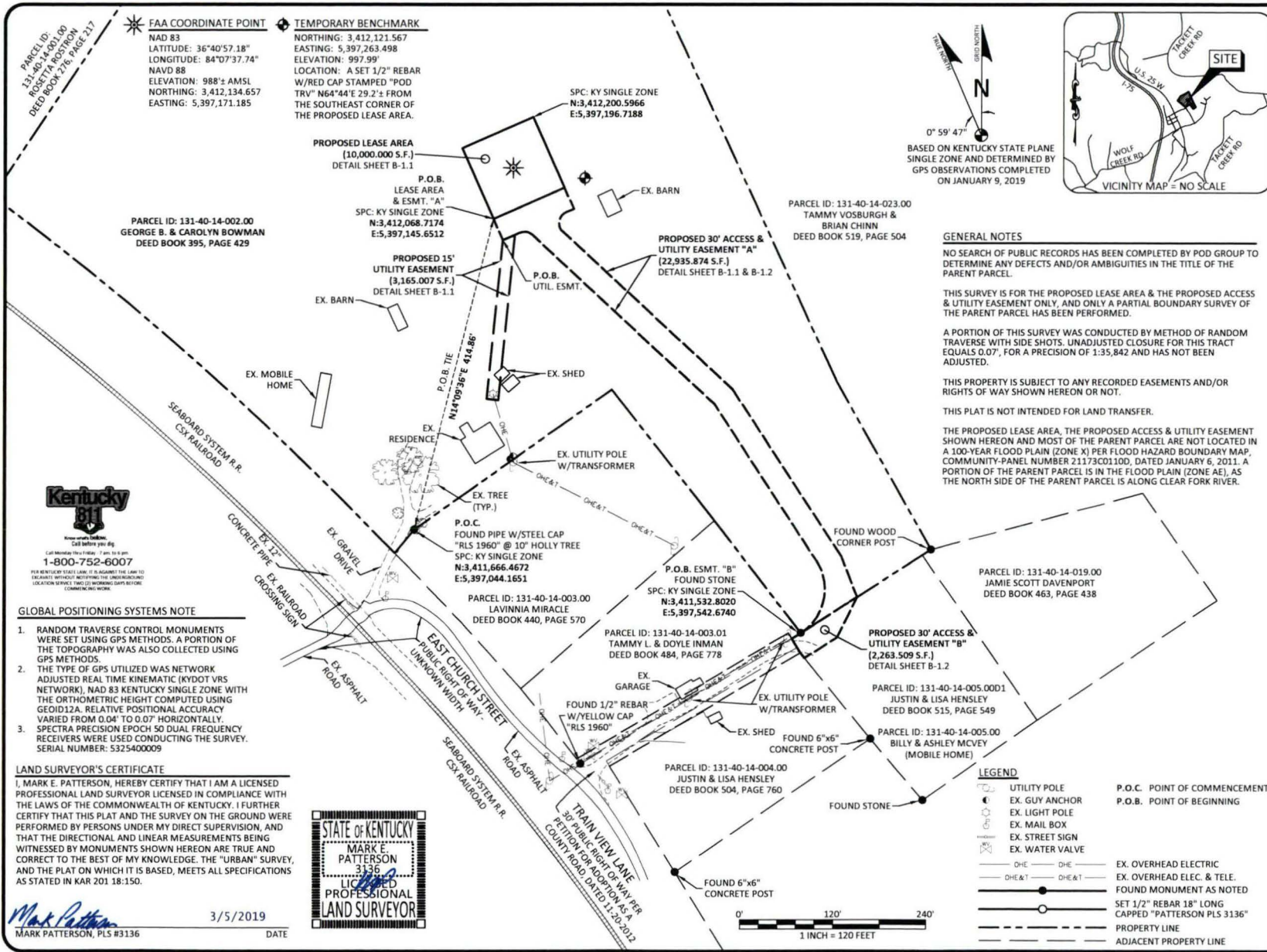
LOCATION MAP

CONSULTANT TEAM



AERIAL





POD
 POWER OF DESIGN
 11490 BLUEGRASS PARKWAY
 LOUISVILLE, KY 40299
 502-487-9292

HORVATH COMMUNICATIONS

312 WEST COLFAX AVE
 SOUTH BEND, IN 46601
 574.237.0464

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 PARENT PARCEL.

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

A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE FOR THIS TRACT EQUALS 0.07'. FOR A PRECISION OF 1:35,842 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 PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON AND MOST OF THE PARENT PARCEL ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21173C0110D, DATED JANUARY 6, 2011. A PORTION OF THE PARENT PARCEL IS IN THE FLOOD PLAIN (ZONE AE), AS THE NORTH SIDE OF THE PARENT PARCEL IS ALONG CLEAR FORK RIVER.

SURVEY

REV.	DATE	DESCRIPTION
A	1.21.19	PRELIM ISSUE WITH TITLE
0	3.5.19	ISSUED AS FINAL

SITE INFORMATION:

PLEASANT VIEW
 140 EAST CHURCH STREET
 WILLIAMSBURG, KY 40769
 WHITLEY COUNTY

TAX PARCEL NUMBER:
 131-40-14-002.00

PROPERTY OWNER:
 GEORGE B. & CAROLYN BOWMAN
 140 EAST CHURCH STREET
 WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
 DEED BOOK 395, PAGE 429

SITE NUMBER:
 HV1363

VERIZON WIRELESS SITE NAME:
 LV PLEASANT VIEW

POD NUMBER: 18-32357
DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 1.9.19
PLAT DATE: 1.21.19

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

SHEET NUMBER: (5 pages)
B-1

Kentucky
 Surveyors License
 Call before you dig
 1-800-752-6007

GLOBAL POSITIONING SYSTEMS NOTE

- RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE TOPOGRAPHY WAS ALSO COLLECTED USING GPS METHODS.
- THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KYDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.07' HORIZONTALLY.
- SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED CONDUCTING THE SURVEY. SERIAL NUMBER: 5325400009

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 "URBAN" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.

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

Mark Patterson
 MARK PATTERSON, PLS #3136

3/5/2019
 DATE

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 PARENT PARCEL.

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

A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE FOR THIS TRACT EQUALS 0.07', FOR A PRECISION OF 1:35,842 AND HAS NOT BEEN ADJUSTED.

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

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON AND MOST OF THE PARENT PARCEL ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21173C01100, DATED JANUARY 6, 2011. A PORTION OF THE PARENT PARCEL IS IN THE FLOOD PLAIN (ZONE AE), AS THE NORTH SIDE OF THE PARENT PARCEL IS ALONG CLEAR FORK RIVER.

GLOBAL POSITIONING SYSTEMS NOTE

- RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE TOPOGRAPHY WAS ALSO COLLECTED USING GPS METHODS.
- THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KYDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.07' HORIZONTALLY.
- SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED CONDUCTING THE SURVEY. SERIAL NUMBER: 5325400009



1-800-752-6007
FOR KENTUCKY STATE SURVEYING INFORMATION, CONTACT THE SURVEYOR'S OFFICE AT THE ADDRESS LISTED OR BY TELEPHONE. CONTACT THE SURVEYOR'S OFFICE FOR MORE INFORMATION.

LEGEND

- UTILITY POLE
- EX. GUY ANCHOR
- EX. LIGHT POLE
- OHE
- OHE & T
- EX. FENCE
- FOUND MONUMENT AS NOTED
- SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
- PROPERTY LINE
- ADJACENT PROPERTY LINE
- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
- EX. OVERHEAD ELECTRIC
- EX. OVERHEAD ELEC. & TELE.
- EX. FENCE
- FOUND MONUMENT AS NOTED
- SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
- PROPERTY LINE
- ADJACENT PROPERTY LINE

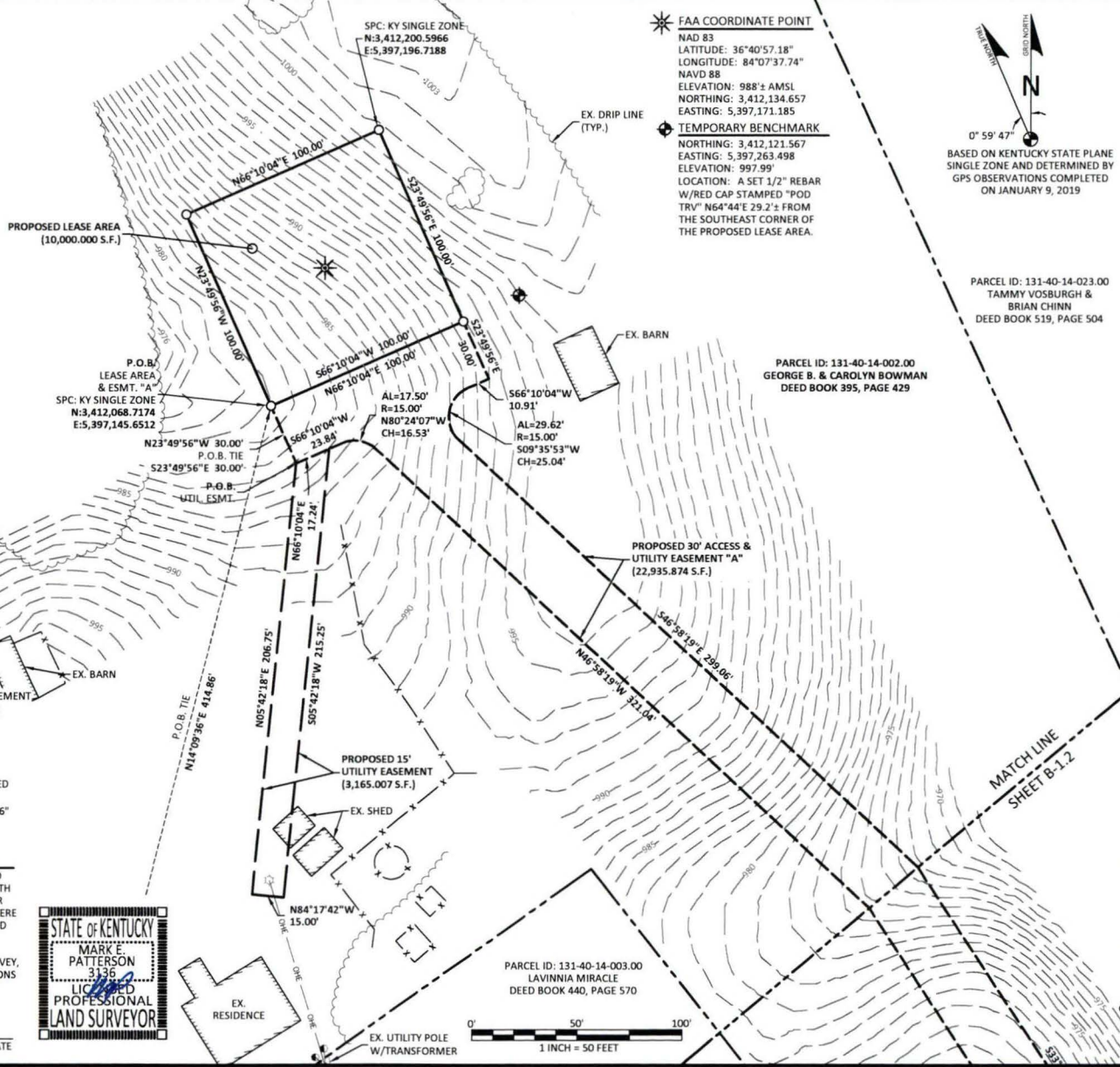
LAND SURVEYOR'S CERTIFICATE

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 "URBAN" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.

Mark Patterson
MARK PATTERSON, PLS #3136

3/5/2019

DATE



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

HORVATH
COMMUNICATIONS

312 WEST COLFAX AVE
SOUTH BEND, IN 46601
574.237.0464

PARCEL ID: 131-40-14-023.00
TAMMY VOSBURGH & BRIAN CHINN
DEED BOOK 519, PAGE 504

PARCEL ID: 131-40-14-002.00
GEORGE B. & CAROLYN BOWMAN
DEED BOOK 395, PAGE 429

SURVEY

REV.	DATE	DESCRIPTION
A	1.21.19	PRELIM ISSUE WITH TITLE
D	3.5.19	ISSUED AS FINAL

SITE INFORMATION:

PLEASANT VIEW
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBER:
131-40-14-002.00

PROPERTY OWNER:
GEORGE B. & CAROLYN BOWMAN
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 395, PAGE 429

SITE NUMBER:
HV1363

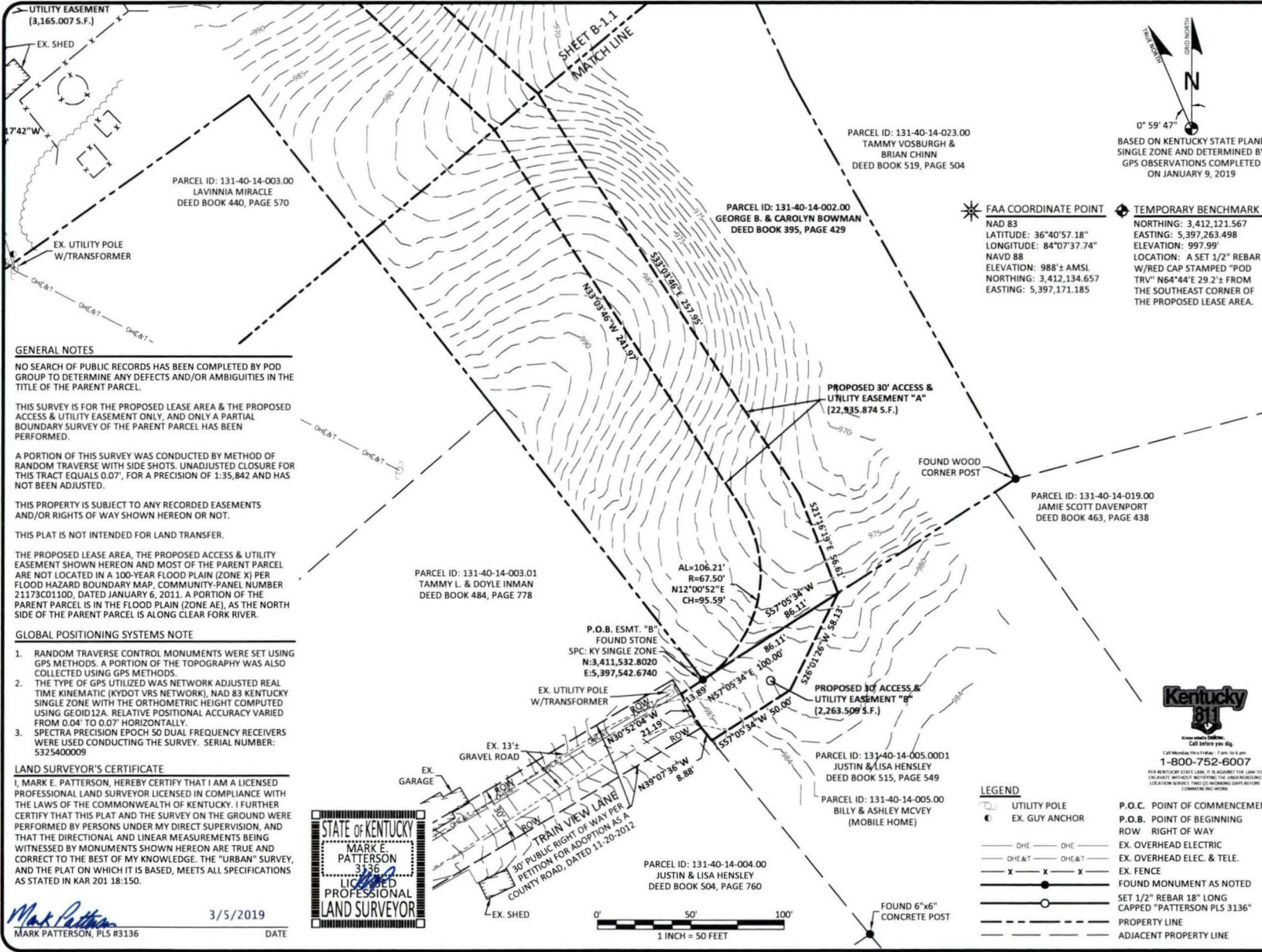
VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32357

DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 1.9.19
PLAT DATE: 3.21.19

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

SHEET NUMBER: (5 pages)
B-1.1



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

312 WEST COLFAX AVE
SOUTH BEND, IN 46601
574.237.0464

SURVEY

REV.	DATE	DESCRIPTION
A	1.21.19	PRELIM ISSUE WITH TITLE
D	3.5.19	ISSUED AS FINAL

SITE INFORMATION:

PLEASANT VIEW
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBER:
131-40-14-002.00

PROPERTY OWNER:
GEORGE B. & CAROLYN BOWMAN
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 395, PAGE 429

SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32357

DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 1.9.19
PLAT DATE: 1.21.19

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

SHEET NUMBER: (5 pages)
B-1.2

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 PARENT PARCEL.

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

A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE FOR THIS TRACT EQUALS 0.07'. FOR A PRECISION OF 1:35,842 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 PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON AND MOST OF THE PARENT PARCEL ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21173C0110D, DATED JANUARY 6, 2011. A PORTION OF THE PARENT PARCEL IS IN THE FLOOD PLAIN (ZONE AE), AS THE NORTH SIDE OF THE PARENT PARCEL IS ALONG CLEAR FORK RIVER.

- GLOBAL POSITIONING SYSTEMS NOTE**
- RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE TOPOGRAPHY WAS ALSO COLLECTED USING GPS METHODS.
 - THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KYDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.07' HORIZONTALLY.
 - SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED CONDUCTING THE SURVEY. SERIAL NUMBER: 5325400009

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 "URBAN" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 2011 18:150.

Mark Patterson
MARK PATTERSON, PLS #3136
DATE: 3/5/2019



FAA COORDINATE POINT
NAD 83
LATITUDE: 36°40'57.18"
LONGITUDE: 84°07'37.74"
NAVD 88
ELEVATION: 988± AMSL
NORTHING: 3,412,134.657
EASTING: 5,397,171.185

TEMPORARY BENCHMARK
NORTHING: 3,412,121.567
EASTING: 5,397,263.498
ELEVATION: 997.99'
LOCATION: A SET 1/2" REBAR W/RED CAP STAMPED "POD TRV" N64°44'E 29.2±' FROM THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA.

- LEGEND**
- UTILITY POLE
 - EX. GUY ANCHOR
 - DHE
 - DHE&T
 - X
 - EX. FENCE
 - FOUND MONUMENT AS NOTED
 -
 - PROPERTY LINE
 - ADJACENT PROPERTY LINE
- P.O.C. POINT OF COMMENCEMENT**
P.O.B. POINT OF BEGINNING
ROW RIGHT OF WAY
EX. OVERHEAD ELECTRIC
EX. OVERHEAD ELEC. & TELE.
EX. FENCE
FOUND MONUMENT AS NOTED
SET 1/2" REBAR 18" LONG
CAPPED "PATTERSON PLS 3136"
PROPERTY LINE
ADJACENT PROPERTY LINE



LEGAL DESCRIPTIONS

PROPOSED LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00, 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 JANUARY 9, 2019.

COMMENCING AT A FOUND PIPE WITH A STEEL CAP STAMPED "RLS 1960" AT THE BASE OF A 10" HOLLY TREE, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,412,068.7174 & E:5,397,145.6512, BEING THE COMMON CORNER TO THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00 AND CORNER TO THE PROPERTY CONVEYED TO LAVINIA MIRACLE AS RECORDED IN DEED BOOK 440, PAGE 570; THENCE LEAVING SAID CORNER AND TRAVERSING THE LAND OF SAID BOWMAN, N14°09'36"E 414.86' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE SOUTHWEST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE N23°49'56"W 100.00' TO A SET IPC; THENCE N66°10'04"E 100.00' TO A SET IPC, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,412,200.5966 & E:5,397,196.7188; THENCE S23°49'56"E 100.00' TO A SET IPC; THENCE S66°10'04"W 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JANUARY 9, 2019.

PROPOSED 30' ACCESS & UTILITY EASEMENT "A"

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED 30' ACCESS & UTILITY EASEMENT "A" TO BE GRANTED FROM THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00, 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 JANUARY 9, 2019.

COMMENCING AT A FOUND PIPE WITH A STEEL CAP STAMPED "RLS 1960" AT THE BASE OF A 10" HOLLY TREE, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,412,068.7174 & E:5,397,145.6512, BEING THE COMMON CORNER TO THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00 AND CORNER TO THE PROPERTY CONVEYED TO LAVINIA MIRACLE AS RECORDED IN DEED BOOK 440, PAGE 570; THENCE LEAVING SAID CORNER AND TRAVERSING THE LAND OF SAID BOWMAN, N14°09'36"E 414.86' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE SOUTHWEST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE WITH SAID LEASE AREA, N66°10'04"E 100.00' TO A SET IPC; THENCE LEAVING SAID LEASE AREA, S23°49'56"E 30.00'; THENCE S66°10'04"W 101.91'; THENCE WITH THE CHORD OF A CURVE TO THE LEFT HAVING AN ARC LENGTH OF 29.62', A RADIUS OF 15.00', WITH A CHORD BEARING OF S09°53'33"W AND A CHORD LENGTH OF 25.04'; THENCE S46°58'19"E 299.06'; THENCE S33°03'46"E 257.95'; THENCE S21°16'19"E 56.61' TO THE COMMON LINE OF SAID BOWMAN AND THE LINE OF THE PROPERTY CONVEYED TO JUSTIN & LISA HENSLEY AS RECORDED IN DEED BOOK 515, PAGE 549, PARCEL ID: 131-40-14-005.00D1; THENCE WITH SAID COMMON LINE, S57°05'34"W 86.11' TO A FOUND STONE, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,411,532.8020 & E:5,397,542.6740, BEING IN THE LINE OF HENSLEY AND CORNER TO BOWMAN, ALSO CORNER TO THE PROPERTY CONVEYED TO TAMMY L. & DOYLE INMAN AS RECORDED IN DEED BOOK 484, PAGE 778, PARCEL ID: 131-40-14-003.01; THENCE LEAVING SAID CORNER AND TRAVERSING THE LAND OF SAID BOWMAN, WITH THE CHORD OF A NON-TANGENT CURVE TO THE LEFT HAVING AN ARC LENGTH OF 106.21', A RADIUS OF 67.50', WITH A CHORD BEARING OF N12°00'52"E AND A CHORD LENGTH OF 95.59'; THENCE N33°03'46"W 241.97'; THENCE N46°58'19"E 321.04'; THENCE WITH THE CHORD OF A CURVE TO THE LEFT HAVING AN ARC LENGTH OF 17.50', A RADIUS OF 15.00', WITH A CHORD BEARING OF N80°24'07"W AND A CHORD LENGTH OF 16.53'; THENCE S66°10'04"W 73.84'; THENCE N23°49'56"W 30.00' TO THE POINT OF BEGINNING CONTAINING 22,935.874 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JANUARY 9, 2019.

PROPOSED 30' ACCESS & UTILITY EASEMENT "B"

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED 30' ACCESS & UTILITY EASEMENT "B" TO BE GRANTED FROM THE PROPERTY CONVEYED TO JUSTIN & LISA HENSLEY AS RECORDED IN DEED BOOK 515, PAGE 549, PARCEL ID: 131-40-14-005.00D1, 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 JANUARY 9, 2019.

BEGINNING AT A FOUND STONE, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,411,532.8020 & E:5,397,542.6740, BEING IN THE LINE OF THE PROPERTY CONVEYED TO JUSTIN & LISA HENSLEY AS RECORDED IN DEED BOOK 515, PAGE 549, PARCEL ID: 131-40-14-005.00D1 AND BEING THE COMMON CORNER TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00 AND CORNER TO THE PROPERTY CONVEYED TO TAMMY L. & DOYLE INMAN AS RECORDED IN DEED BOOK 484, PAGE 778, PARCEL ID: 131-40-14-003.01; THENCE WITH THE COMMON LINE OF SAID BOWMAN AND HENSLEY, N57°05'34"E 86.11'; THENCE LEAVING SAID COMMON LINE AND TRAVERSING THE LAND OF SAID HENSLEY, S26°11'26"W 58.13'; THENCE S57°05'34"W 50.00' TO THE COMMON LINE OF SAID HENSLEY AND THE LINE OF THE PROPERTY CONVEYED TO JUSTIN & LISA HENSLEY AS RECORDED IN DEED BOOK 504, PAGE 760, PARCEL ID: 131-40-14-004.00; THENCE WITH THE COMMON LINE OF SAID HENSLEY, N39°07'36"W 8.88' TO THE EAST LINE OF THE RIGHT OF WAY OF TRIN VIEW LANE; THENCE WITH THE LINE OF SAID RIGHT OF WAY, N30°52'04"W 21.19' TO THE COMMON CORNER OF SAID RIGHT OF WAY AND CORNER TO SAID INMAN AND HENSLEY, PARCEL ID: 131-40-14-005.00D1; THENCE WITH SAID HENSLEY AND INMAN, N57°05'34"E 13.89' TO THE POINT OF BEGINNING CONTAINING 2,263.509 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JANUARY 9, 2019.

PROPOSED 15' UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED 15' UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00, 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 JANUARY 9, 2019.

COMMENCING AT A FOUND PIPE WITH A STEEL CAP STAMPED "RLS 1960" AT THE BASE OF A 10" HOLLY TREE, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,412,068.7174 & E:5,397,145.6512, BEING THE COMMON CORNER TO THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00 AND CORNER TO THE PROPERTY CONVEYED TO LAVINIA MIRACLE AS RECORDED IN DEED BOOK 440, PAGE 570; THENCE LEAVING SAID CORNER AND TRAVERSING THE LAND OF SAID BOWMAN, N14°09'36"E 414.86' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", IN THE SOUTHWEST CORNER OF THE PROPOSED LEASE AREA; THENCE LEAVING SAID LEASE AREA, S23°49'56"E 30.00' TO THE TRUE POINT OF BEGINNING; THENCE N66°10'04"E 17.24'; THENCE S05°42'18"W 215.25'; THENCE N84°17'42"W 15.00'; THENCE N05°42'18"E 206.75' TO THE POINT OF BEGINNING CONTAINING 3,165.007 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JANUARY 9, 2019.

PARENT PARCEL, LEGAL DESCRIPTION, DEED BOOK 395, PAGE 429 (NOT FIELD SURVEYED)

LYING ON THE WATERS OF THE CLEAR FORK OF THE CUMBERLAND RIVER, ON THE EAST SIDE AND ADJACENT TO THE CSX RAILROAD, AT PLEASANT VIEW, WHITLEY COUNTY, KENTUCKY AND BEING THE SAME LAND CONVEYED TO WILLIAM MELVIN CRIDER AND WIFE, TAMMY LYNN CRIDER FROM JOHNNY GIBSON, ET AL (SOLE HEIRS AT LAW OF FLARA BOOTH) BY DEED DATED 4-11-94, RECORDED IN DEED BOOK 370, PAGE 609 IN THE WHITLEY COUNTY COURT CLERK'S OFFICE AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

FIRST TRACT:
BEGINNING ON R. C. DAVIDSON'S CORNER THENCE DOWN RATHER SOUTH WITH A CONDITIONAL LINE TO A CORNER OF DAVIDSON'S CONDITIONAL LINE TO A CORNER OF DAVIDSON IN LINE OF R. BIRD'S GRAVE LOT; THENCE EAST WITH R. BIRD'S GRAVE LOT TO LINE 52 FEET MORE OR LESS TO A STONE CORNER; THENCE SOUTH WITH LINE OF GRAVE LOT TO A CORNER IN THE LINE OF THE L & N RR CO. RIGHT OF WAY; THENCE SOUTHEAST COURSE WITH L & N RR CO. RIGHT OF WAY; THENCE SOUTHEAST COURSE WITH L & N RR CO. RIGHT OF WAY TO CORNER OF S. BOOTH'S OF THE BRANCH; THENCE RUNNING IN A NORTH DIRECTION WITH MEANDERS OF SAID BRANCH TO THE RIVER, A CONDITIONAL LINE SAM BOOTH'S AND GEO. BOOTH; THENCE DOWN THE RIVER TO THE BEGINNING.

SECOND TRACT:
BEGINNING ON A STONE, A CORNER OF T. C. LAYS AND IN A LINE OF STARLIN STANFILL AND WITH HIS LINE N 20 W 177 FEET TO A STAKE, ON RIVER BANK, THENCE DOWN THE RIVER S 55 W 227 FEET TO A STAKE; THENCE S 64 W 377 FEET TO THE MOUTH OF A BRANCH; THENCE UP THE BRANCH S 30 E 175 FEET S 1 W 159 FEET TO A WATER BIRCH, CORNER OF S. BOOTH LOT, AND WITH THE SAME 89 E 164 FEET TO A STAKE, S 66 E 220 FEET TO A STAKE; THENCE S 29 E 234 FEET CORNER OF SHERMAN CASTLE; THENCE S 24 E 450 FEET TO A STONE; THENCE 65 E 285 FEET TO THE BEGINNING.

THIRD TRACT:
BEGINNING ON A STONE, THE S. E. CORNER OF THE LOT THAT SAID S. BOOTH NOW LIVES ON AND IN THE LINE OF G. S. CASTLE'S LOT, AND THENCE WITH SAME N 56 E 152 FEET TO A STONE IN SAID CALLE AND BOOTH'S CORNER; THENCE, LEAVING SAID CASTLE'S LOT N 31 1/2 W 217 FEET TO A STONE; THENCE N 66 W 221 FEET TO A STONE, A CORNER OF THE AFORESAID S. BOOTH'S LOT, THENCE WITH SAME S 28 E 400 FEET TO THE BEGINNING.

FOURTH TRACT:
BEGINNING ON EAST CORNER OF SHERMAN CASTLE'S LOT; THENCE N 60 1/2 E 202 FEET TO A STAKE IN S. STANFILL'S LINE AND WITH SAME N 30 W 570 FEET TO A STAKE; THENCE N 20 W 563 FEET TO A STONE, S. BOOTH'S CORNER, AND WITH HIS LINE S 85 W 285 FEET TO A STONE; THENCE S 25 E 450 FEET TO A CORNER OF SHERMAN CASTLE'S LOT AND WITH THE SAME S 34 E 394 FEET TO THE BEGINNING, CONTAINING 5 ACRES, MORE OR LESS.

FIFTH TRACT:
BEGINNING AT THE N. E. CORNER OF SAID LOT AND IN A LINE OF THE L & N RR RIGHT OF WAY; THENCE WITH SAID RR RIGHT OF WAY N 44 W 300 FEET TO A STAKE THENCE LEAVING SAID RR AND RUNNING WITH D. H. WEBB'S LOT, S 33 1/2 E 286 FEET TO DEPOT STREET; THENCE WITH SAID STREET N 66 E 54 FEET TO THE BEGINNING, CONTAINING 1/4 ACRE MORE OR LESS.

SIXTH TRACT:
BEGINNING AT A STONE ON SOUTHWEST OF HIGHLAND DRAIN, AND AGREED CORNER, THENCE N 89 W 154 FEET TO A WATER BIRCH, IN H. BOOTH LINE, THENCE WITH SAID H. BOOTH LINE S 158 FEET TO A STONE; THENCE S 18 E 120 FEET TO L & N RR CO. RIGHT OF WAY WHERE H. BOOTH'S FINE INTERSECTS SAID RAILROAD LAND; THENCE WITH SAID L & N RR RIGHT OF WAY S. E. 191 FEET TO A STAKE, CORNER IN SAID LINE; THENCE N 56 E 167 FEET TO A STONE AT THE BEGINNING, SAID TRACT CONTAINING 2 ACRES, MORE OR LESS.

ALSO CONVEYED HEREIN, A SMALL TRACT, BEING A PART OF THE LAND CONVEYED TO WILLIAM MELVIN CRIDER AND HIS WIFE, TAMMY LYNN CRIDER FROM JOHN KEVIN OLSON AND HIS WIFE, KATHERINE GAISER OLSON BY DEED DATED 5-23-96, RECORD IN DEED BOOK 386, PAGE 413 IN THE WHITLEY COUNTY COURT CLERK'S OFFICE AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT A SURVEY MARKER AT A CORNER COMMON TO TWO SEPARATE TRACTS OF LAND OWNED BY WILLIAM MELVIN CRIDER AND WIFE, TAMMY LYNN CRIDER (D.B. 370; G. 609 AND D.B. 386 PG. 413); THENCE WITH THE COMMON BOUNDARY OF SAID TRACTS N 66°24'38" E, 353.82 FEET TO A SURVEY MARKER; THENCE SEVERING THE SOUTHERN TRACT (D.B. 386, PG. 413) S 64°38'38" W, 312.34 FEET TO A SURVEY MARKER NEAR THE BASE OF A SMALL HOLLY TREE; THENCE STILL SEVERING THE SAID TRACT S 49°32'57" W, 39.22 FEET TO A RAILROAD SPIKE IN THE SOUTHERN EDGE OF THE DRIVEWAY, SAID POINT LIES AT THE EASTERN RIGHT OF WAY OF THE CSX RAILROAD; THENCE WITH THE SAID RIGHT OF WAY - CROSSING THE SAID DRIVEWAY N 34°37'17" W, 21.40 FEET TO THE POINT OF BEGINNING, CONTAINING 0.0487 ACRES.

PARENT PARCEL, LEGAL DESCRIPTION, DEED BOOK 515, PAGE 549 (NOT FIELD SURVEYED)

BEGINNING ON A STONE IN THE LANE RUNNING PARALLEL WITH LANE; THENCE A SOUTHEAST DIRECTION BY THE EDGE OF THE SPRING 260 FEET TO A STONE IN THE FENCE LINE; THENCE A EASTERLY COURSE 180 FEET TO A POPLAR CORNER; THENCE A NORTHWESTERLY COURSE 260 FEET TO A STONE CORNER WHERE THE LANE MAKES A TURN; THENCE A SOUTHWEST COURSE 200 FEET TO A STONE AT THE BEGINNING.

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 "URBAN" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.



Mark Patterson
MARK PATTERSON, PLS #3136

3/5/2019
DATE

11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5299

312 WEST COLFAX AVE
SOUTH BEND, IN 46601
574.237.0464

SURVEY

REV.	DATE	DESCRIPTION
A	1.21.19	PRELIM ISSUE WITH TITLE
D	3.5.19	ISSUED AS FINAL

SITE INFORMATION:
PLEASANT VIEW
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY
TAX PARCEL NUMBER:
131-40-14-002.00
PROPERTY OWNER:
GEORGE B. & CAROLYN BOWMAN
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
SOURCE OF TITLE:
DEED BOOK 395, PAGE 429

SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32357

DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 1.9.19
PLAT DATE: 1.21.19

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

SHEET NUMBER: (5 pages)
B-1.3

TITLE OF COMMITMENT - PARCEL ID: 131-40-14-002.00

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 AND THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY U.S. TITLE SOLUTIONS FILE NO. 62344-KY1812-5030, REFERENCE NUMBER HV1363, DATED DECEMBER 28, 2018. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID REPORT.

SCHEDULE B

- TAXES, TAX LIENS, TAX SALES, WATER RATES, SEWER AND ASSESSMENTS SET FORTH IN SCHEDULE HEREIN. TAX ID :131-40-14-002.00 - PERIOD :2018 - PAYMENT STATUS: PAID - TAX AMOUNT : \$232.60 (NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT ADDRESS OR EXAMINE THIS ITEM.)
 - MORTGAGES RETURNED HEREIN. (-0-). NONE WITHIN PERIOD SEARCHED
 - ANY STATE OF FACTS WHICH AN ACCURATE SURVEY MIGHT SHOW OR SURVEY EXCEPTIONS SET FORTH HEREIN. (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY OF THE PARENT PARCEL, THEREFORE WE DID NOT ADDRESS THIS ITEM.)
 - RIGHTS OF TENANTS OR PERSON IN POSSESSION. (RIGHTS ARE NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THESE ITEM.)
- (JUDGMENTS, LIENS AND UCC)
- CERTIFICATE OF DELINQUENCY TAX EASE LIEN INVESTMENTS, LLC, FROM, V GEORGE B. AND CAROLYN BOWMAN, TO, RECORDED 8/25/2008 IN BOOK 48 PAGE 263. (CERTIFICATE AS RECORDED IN BOOK 48, PAGE 263 DOES AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT "A" AND THE PROPOSED UTILITY EASEMENT, BUT DOES NOT AFFECT THE PROPOSED ACCESS & UTILITY EASEMENT "B".)
 - ASSIGNMENT OF CERTIFICATE OF DELINQUENCY TAX EASE LIEN INVESTMENTS, LLC, FROM, V MID SOUTH CAPITAL PARTNERS, LP, TO, DATED AS OF 7/19/2018 RECORDED 8/9/2018 IN BOOK 70 PAGE 941. (ASSIGNMENT AS RECORDED IN BOOK 70, PAGE 941 DOES AFFECT THE PARENT PARCEL, THE PARENT PARCEL, THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT "A" AND THE PROPOSED UTILITY EASEMENT, BUT DOES NOT AFFECT THE PROPOSED ACCESS & UTILITY EASEMENT "B".)
 - NOTICE OF JUDGMENT LIEN CLUMBERLAND VALLEY ELECTRIC, INC., PLAINTIFF, V CAROLYN BOWMAN, DEFENDANT, DATED AS OF 6/10/2014 RECORDED 6/12/2014 IN BOOK 64 PAGE 680. (NOTICE AS RECORDED IN BOOK 64, PAGE 680 DOES AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT "A" AND THE PROPOSED UTILITY EASEMENT, BUT DOES NOT AFFECT THE PROPOSED ACCESS & UTILITY EASEMENT "B".)
 - NOTICE OF STATE TAX LIEN COMMONWEALTH OF KENTUCKY, FROM, V GEORGE BOWMAN, TO, RECORDED 9/25/2007 IN BOOK 45 PAGE 496. (NOTICE AS RECORDED IN BOOK 45, PAGE 496 DOES AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT "A" AND THE PROPOSED UTILITY EASEMENT, BUT DOES NOT AFFECT THE PROPOSED ACCESS & UTILITY EASEMENT "B".)
 - LIS PENDENS TAX EASE LIEN INVESTMENTS 1, LLC, PLAINTIFF, V GEORGE B. BOWMAN, CAROLYN BOWMAN, COMMONWEALTH OF KENTUCKY, INDIVIDUAL COLLECTION BRANCH, DIVISION OF COLLECTIONS, DEPARTMENT OF REVENUE AND WHITLEY COUNTY, KENTUCKY, DEFENDANT, RECORDED 5/24/2011 IN BOOK 57 PAGE 359. (LIS PENDENS AS RECORDED IN BOOK 57, PAGE 359 DOES AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT "A" AND THE PROPOSED UTILITY EASEMENT, BUT DOES NOT AFFECT THE PROPOSED ACCESS & UTILITY EASEMENT "B".)
 - COMPLAINT TAX EASE LIEN INVESTMENTS 1, LLC, PLAINTIFF, V GEORGE B. BOWMAN, CAROLYN BOWMAN, COMMONWEALTH OF KENTUCKY, INDIVIDUAL COLLECTION BRANCH, DIVISION OF COLLECTIONS, DEPARTMENT OF REVENUE AND WHITLEY COUNTY, KENTUCKY, DEFENDANT, RECORDED 5/24/2011 IN INSTRUMENT NO. 11-CI-00446. (COMPLAINT OF CIVIL ACTION NO. 11-CI-00446 DOES AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT "A" AND THE PROPOSED UTILITY EASEMENT, BUT DOES NOT AFFECT THE PROPOSED ACCESS & UTILITY EASEMENT "B".)
- (COVENANTS/RESTRICTIONS)
- NONE WITHIN PERIOD SEARCHED
- (EASEMENTS AND RIGHTS OF WAY)
- NONE WITHIN PERIOD SEARCHED

TITLE OF COMMITMENT - PARCEL ID: 131-40-14-005.00D1

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 AND THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY U.S. TITLE SOLUTIONS FILE NO. 62570-KY1901-5030, REFERENCE NUMBER HV1363B, DATED FEBRUARY 25, 2019. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID REPORT.

SCHEDULE B

- TAXES, TAX LIENS, TAX SALES, WATER RATES, SEWER AND ASSESSMENTS SET FORTH IN SCHEDULE HEREIN. TAX ID :131-40-14-005.00D1 - PERIOD :2018 - PAYMENT STATUS: PAID - TAX AMOUNT : \$77.37 (NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT ADDRESS OR EXAMINE THIS ITEM.)
 - MORTGAGES RETURNED HEREIN. (-1-). MORTGAGE MADE BY JAMES R. WEAVER JR., (SINGLE) TO NCS CONSUMER SERVICES, L.L.C. WHICH IS ORGANIZED AND EXISTING UNDER THE LAWS OF THE STATE OF GEORGIA IN THE SUM OF \$32,000.00 DATED AS OF 2/24/1998 RECORDED 3/4/1998 IN BOOK 258 PAGE 458. NOTES: PLEASE SEE ASSIGNMENT OF MORTGAGE IN BOOK 114 PAGE 459. (MORTGAGE AS RECORDED IN BOOK 258, PAGE 458 DESCRIBES THE SAME LAND AS THE PARENT PARCEL, BUT DOES NOT AFFECT EITHER PARENT PARCEL, THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT "A" OR "B" OR THE PROPOSED UTILITY EASEMENT.)
 - ANY STATE OF FACTS WHICH AN ACCURATE SURVEY MIGHT SHOW OR SURVEY EXCEPTIONS SET FORTH HEREIN. (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY OF THE PARENT PARCEL, THEREFORE WE DID NOT ADDRESS THIS ITEM.)
 - RIGHTS OF TENANTS OR PERSON IN POSSESSION. (RIGHTS ARE NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THESE ITEM.)
- (JUDGMENTS)
- NONE OF RECORD
- (COVENANTS/RESTRICTIONS)
- NONE OF RECORD
- (EASEMENTS AND RIGHTS OF WAY)
- NONE OF RECORD
- (OTHER FILED DOCUMENTS)
- LAND CONTRACT BETWEEN CATHERINE C. BIRD, A SINGLE PERSON AND JUNIOR COLLINS AND WIFE, ELEANOR COLLINS, AS TENANTS BY THE ENTIRETY FOR AND DURING THEIR JOINT LIVES DATED 9/19/1991 RECORDED 9/19/1991 IN BOOK 72 PAGE 346. (CONTRACT AS RECORDED IN BOOK 72, PAGE 346, DESCRIBES THE SAME LAND AS THE PARENT PARCEL, BUT DOES NOT AFFECT EITHER PARENT PARCEL, THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT "A" OR "B" OR THE PROPOSED UTILITY EASEMENT.)
 - CONTRACT FOR THE SELL AND PURCHASE BETWEEN PATSY M. HOPKINS, A SINGLE WOMAN AND ROBERT ANDERSON AND HIS WIFE, TINA ANDERSON DATED 1/31/2007 RECORDED 1/31/2007 IN BOOK 144 PAGE 602. (CONTRACT AS RECORDED IN BOOK 144, PAGE 602, DESCRIBES THE SAME LAND AS THE PARENT PARCEL, BUT DOES NOT AFFECT EITHER PARENT PARCEL, THE PROPOSED LEASE AREA, THE PROPOSED ACCESS & UTILITY EASEMENT "A" OR "B" OR THE PROPOSED 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 "URBAN" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.



Mark Patterson
 MARK PATTERSON, PLS #3136 3/5/2019 DATE



312 WEST COLFAX AVE
 SOUTH BEND, IN 46601
 574.237.0464

REV.	DATE	DESCRIPTION
A	1.21.19	PRELIM ISSUE WITH TITLE
0	3.5.19	ISSUED AS FINAL

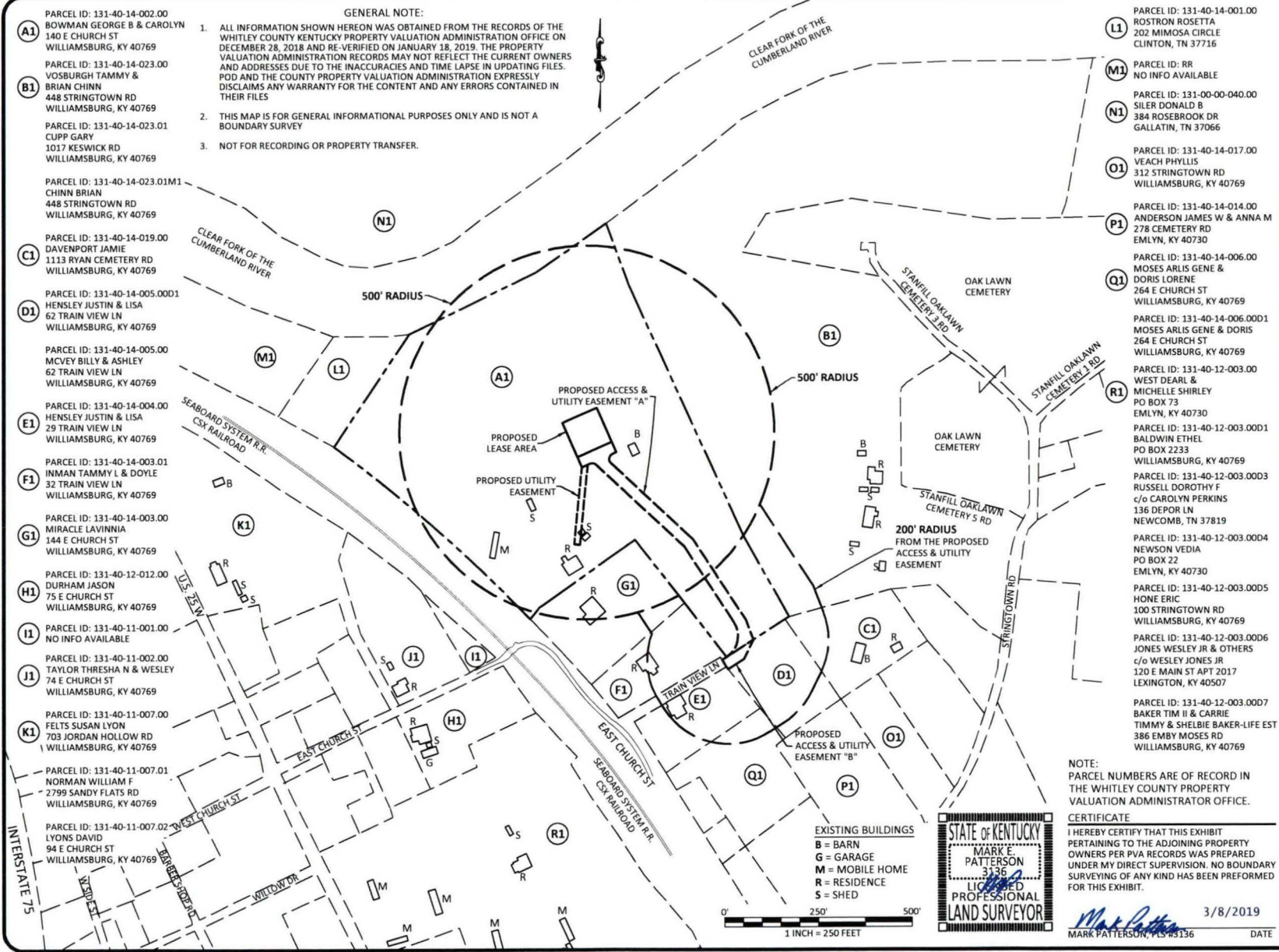
SURVEY		
REV.	DATE	DESCRIPTION
A	1.21.19	PRELIM ISSUE WITH TITLE
0	3.5.19	ISSUED AS FINAL

SITE INFORMATION:
PLEASANT VIEW
 140 EAST CHURCH STREET
 WILLIAMSBURG, KY 40769
 WHITLEY COUNTY
 TAX PARCEL NUMBER:
 131-40-14-002.00
 PROPERTY OWNER:
 GEORGE B. & CAROLYN BOWMAN
 140 EAST CHURCH STREET
 WILLIAMSBURG, KY 40769
 SOURCE OF TITLE:
 DEED BOOK 395, PAGE 429

SITE NUMBER:
 HV1363
 VERIZON WIRELESS SITE NAME:
 LV PLEASANT VIEW
 POD NUMBER: 18-32357
 DRAWN BY: DAP
 CHECKED BY: MEP
 SURVEY DATE: 1.9.19
 PLAT DATE: 1.21.19

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

SHEET NUMBER: (5 pages)
B-1.4



GENERAL NOTE:

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE WHITLEY COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON DECEMBER 28, 2018 AND RE-VERIFIED ON JANUARY 18, 2019. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
3. NOT FOR RECORDING OR PROPERTY TRANSFER.

- (A1) PARCEL ID: 131-40-14-002.00
BOWMAN GEORGE B & CAROLYN
140 E CHURCH ST
WILLIAMSBURG, KY 40769
- (B1) PARCEL ID: 131-40-14-023.00
VOSBURGH TAMMY &
BRIAN CHINN
448 STRINGTOWN RD
WILLIAMSBURG, KY 40769
- PARCEL ID: 131-40-14-023.01
CUPP GARY
1017 KESWICK RD
WILLIAMSBURG, KY 40769
- PARCEL ID: 131-40-14-023.01M1
CHINN BRIAN
448 STRINGTOWN RD
WILLIAMSBURG, KY 40769
- (C1) PARCEL ID: 131-40-14-019.00
DAVENPORT JAMIE
1113 RYAN CEMETERY RD
WILLIAMSBURG, KY 40769
- (D1) PARCEL ID: 131-40-14-005.00D1
HENSLY JUSTIN & LISA
62 TRAIN VIEW LN
WILLIAMSBURG, KY 40769
- PARCEL ID: 131-40-14-005.00
MCVEY BILLY & ASHLEY
62 TRAIN VIEW LN
WILLIAMSBURG, KY 40769
- (E1) PARCEL ID: 131-40-14-004.00
HENSLY JUSTIN & LISA
29 TRAIN VIEW LN
WILLIAMSBURG, KY 40769
- (F1) PARCEL ID: 131-40-14-003.01
INMAN TAMMY L & DOYLE
32 TRAIN VIEW LN
WILLIAMSBURG, KY 40769
- (G1) PARCEL ID: 131-40-14-003.00
MIRACLE LAVINIA
144 E CHURCH ST
WILLIAMSBURG, KY 40769
- (H1) PARCEL ID: 131-40-12-012.00
DURHAM JASON
75 E CHURCH ST
WILLIAMSBURG, KY 40769
- (I1) PARCEL ID: 131-40-11-001.00
NO INFO AVAILABLE
- (J1) PARCEL ID: 131-40-11-002.00
TAYLOR THRESHA N & WESLEY
74 E CHURCH ST
WILLIAMSBURG, KY 40769
- (K1) PARCEL ID: 131-40-11-007.00
FELTS SUSAN LYON
703 JORDAN HOLLOW RD
WILLIAMSBURG, KY 40769
- PARCEL ID: 131-40-11-007.01
NORMAN WILLIAM F
2799 SANDY FLATS RD
WILLIAMSBURG, KY 40769
- PARCEL ID: 131-40-11-007.02
LYONS DAVID
94 E CHURCH ST
WILLIAMSBURG, KY 40769

- (L1) PARCEL ID: 131-40-14-001.00
ROSTRON ROSETTA
202 MIMOSA CIRCLE
CLINTON, TN 37716
- (M1) PARCEL ID: RR
NO INFO AVAILABLE
- (N1) PARCEL ID: 131-00-00-040.00
SILER DONALD B
384 ROSEBROOK DR
GALLATIN, TN 37066
- (O1) PARCEL ID: 131-40-14-017.00
VEACH PHYLLIS
312 STRINGTOWN RD
WILLIAMSBURG, KY 40769
- (P1) PARCEL ID: 131-40-14-014.00
ANDERSON JAMES W & ANNA M
278 CEMETERY RD
EMLYN, KY 40730
- (Q1) PARCEL ID: 131-40-14-006.00
MOSES ARLIS GENE &
DORIS LORENE
264 E CHURCH ST
WILLIAMSBURG, KY 40769
- PARCEL ID: 131-40-14-006.00D1
MOSES ARLIS GENE & DORIS
264 E CHURCH ST
WILLIAMSBURG, KY 40769
- PARCEL ID: 131-40-12-003.00
WEST DEARL &
MICHELLE SHIRLEY
PO BOX 73
EMLYN, KY 40730
- PARCEL ID: 131-40-12-003.00D1
BALDWIN ETHEL
PO BOX 2233
WILLIAMSBURG, KY 40769
- PARCEL ID: 131-40-12-003.00D3
RUSSELL DOROTHY F
c/o CAROLYN PERKINS
136 DEPOR LN
NEWCOMB, TN 37819
- PARCEL ID: 131-40-12-003.00D4
NEWSON VEDIA
PO BOX 22
EMLYN, KY 40730
- PARCEL ID: 131-40-12-003.00D5
HONE ERIC
100 STRINGTOWN RD
WILLIAMSBURG, KY 40769
- PARCEL ID: 131-40-12-003.00D6
JONES WESLEY JR & OTHERS
c/o WESLEY JONES JR
120 E MAIN ST APT 2017
LEXINGTON, KY 40507
- PARCEL ID: 131-40-12-003.00D7
BAKER TIM II & CARRIE
TIMMY & SHELBY BAKER-LIFE EST
386 EMBY MOSES RD
WILLIAMSBURG, KY 40769

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

STATE OF KENTUCKY
MARK E. PATTERSON
LICENSED
PROFESSIONAL LAND SURVEYOR

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

3/8/2019
MARK PATTERSON, PLS #5136 DATE

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

HORVATH COMMUNICATIONS
312 WEST COLFAX AVE
SOUTH BEND, IN 46601
574.237.0464

EXHIBIT

REV.	DATE	DESCRIPTION
A	1.8.19	ISSUED FOR REVIEW
O	3.8.19	ISSUED AS FINAL

SITE INFORMATION:
PLEASANT VIEW
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBER:
131-40-14-002.00 / 2045

PROPERTY OWNER:
GEORGE B. & CAROLYN BOWMAN
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 395, PAGE 429

SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32359
DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 12.28.18
PLAT DATE: 1.18.19

SHEET TITLE:
500' RADIUS AND ABUTTERS MAP

SHEET NUMBER: (1 pages)
B-2

REVISION LOG

REV *	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	1/24/2019	ALL SHEETS	ISSUED FOR REVIEW
0	3/8/2019	ALL SHEETS	ISSUED AS FINAL



3/8/2019



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	1.24.19	ISSUED FOR REVIEW
0	3.8.19	ISSUED AS FINAL

**SITE INFORMATION:
PLEASANT VIEW**

140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

HORVATH COMMUNICATIONS SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32362

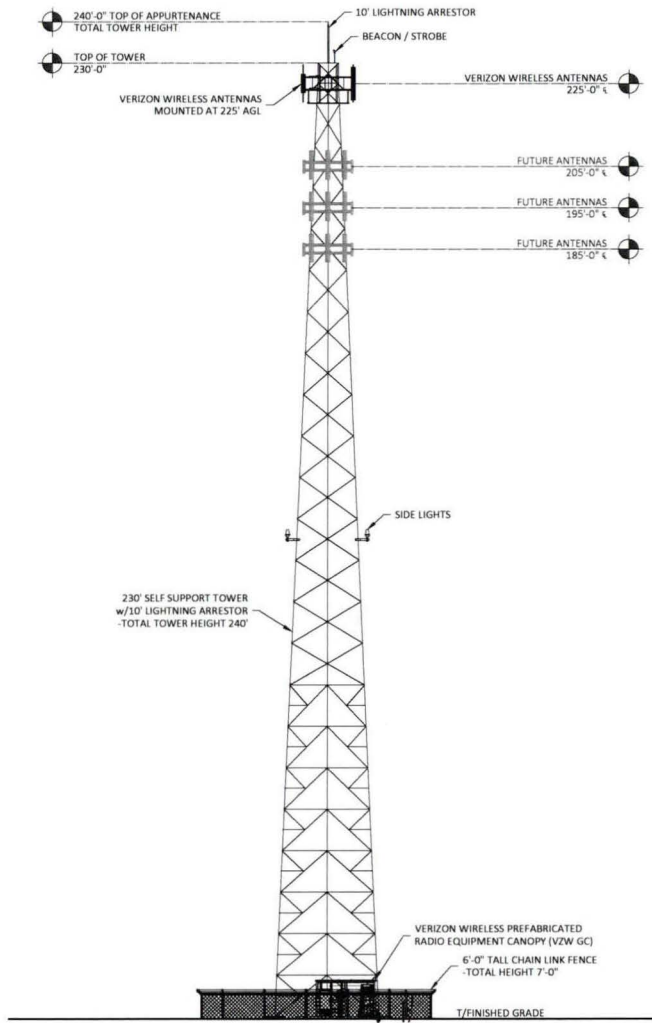
DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.23.19

SHEET TITLE:

REVISION LOG

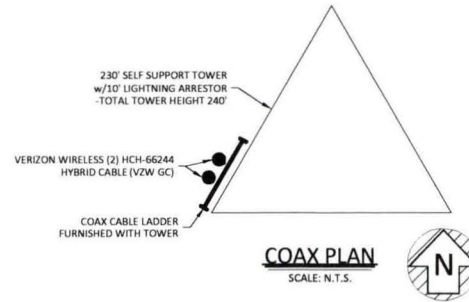
SHEET NUMBER:

R-1



TOWER ELEVATION
SCALE: N.T.S.

1
TE-1



NOTE:

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELCO PARTNERSHIP d/b/a VERIZON WIRELESS (VZW GC)
2. ALL TOWER LIGHTING SHALL BE INSTALLED AS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION AND RECOMMENDED BY THE USFWS INTERIM GUIDELINES (2000) FOR LIGHTING OF TOWERS OVER 200' IN HEIGHT.
3. THE TOWER LIGHTING SYSTEM WILL BE MANUFACTURED BY ITL, LLC AND PROVIDED BY HORVATH COMMUNICATIONS. THE GENERAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, CONDUCTORS, ELECTRICAL PANEL, CIRCUIT BREAKER, HARDWARE AND LABOR TO INSTALL THE ENTIRE OPERATING TOWER OBSTRUCTION LIGHTING SYSTEM.



3/8/2019



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	1.24.19	ISSUED FOR REVIEW
0	3.8.19	ISSUED AS FINAL

**SITE INFORMATION:
PLEASANT VIEW**

140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

HORVATH COMMUNICATIONS SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

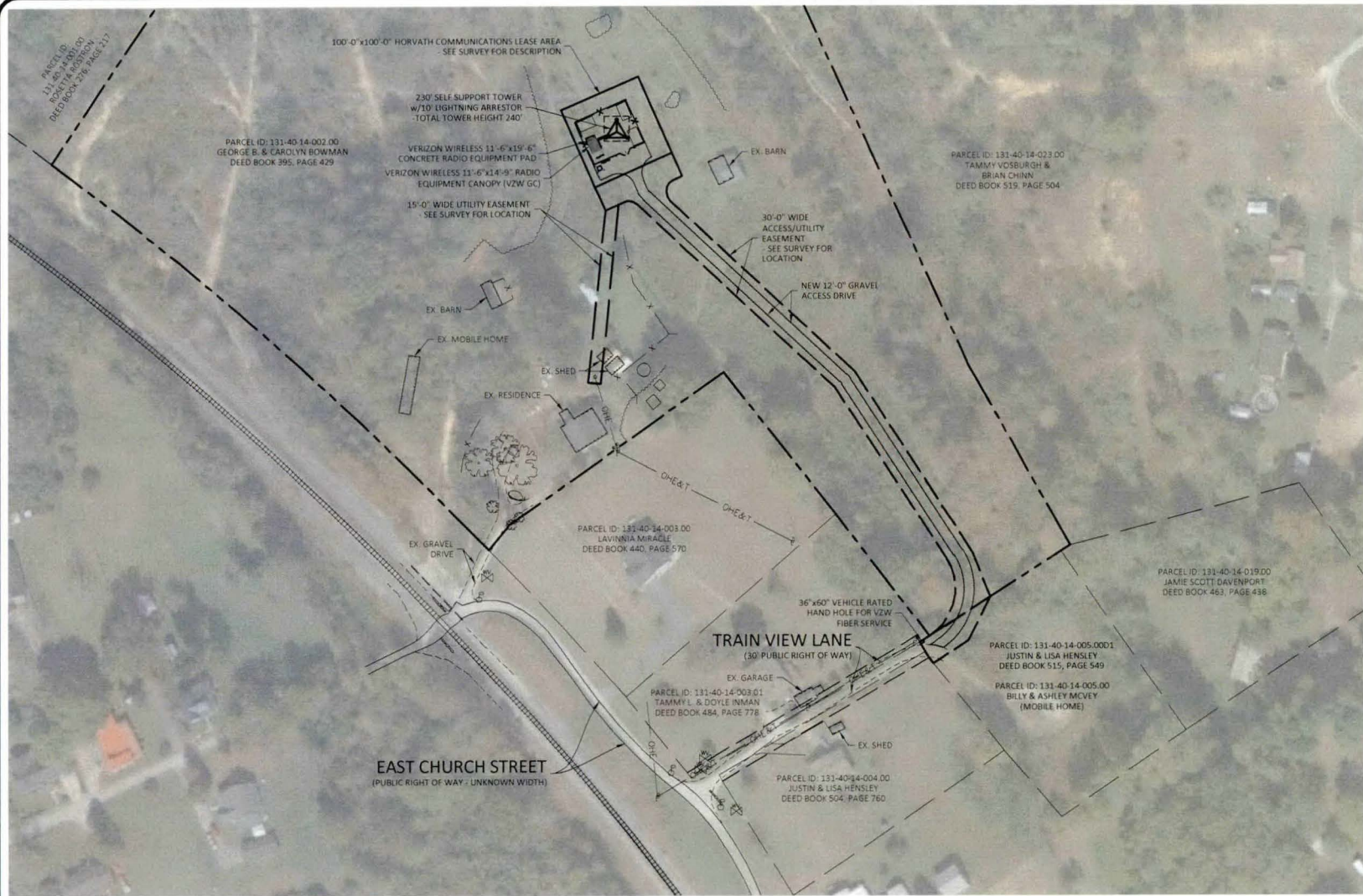
POD NUMBER: 18-32362

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.23.19

SHEET TITLE:

TOWER ELEVATION

SHEET NUMBER:
TE-1



3/8/2019



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	1.24.19	ISSUED FOR REVIEW
0	3.8.19	ISSUED AS FINAL

SITE INFORMATION:
PLEASANT VIEW
 140 EAST CHURCH STREET
 WILLIAMSBURG, KY 40769
 WHITLEY COUNTY

HORVATH COMMUNICATIONS SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32362

DRAWN BY: POD
 CHECKED BY: MEP
 DATE: 01.23.19

SHEET TITLE:

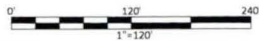
OVERALL SITE PLAN W/AERIAL OVERLAY

SHEET NUMBER:

C-1



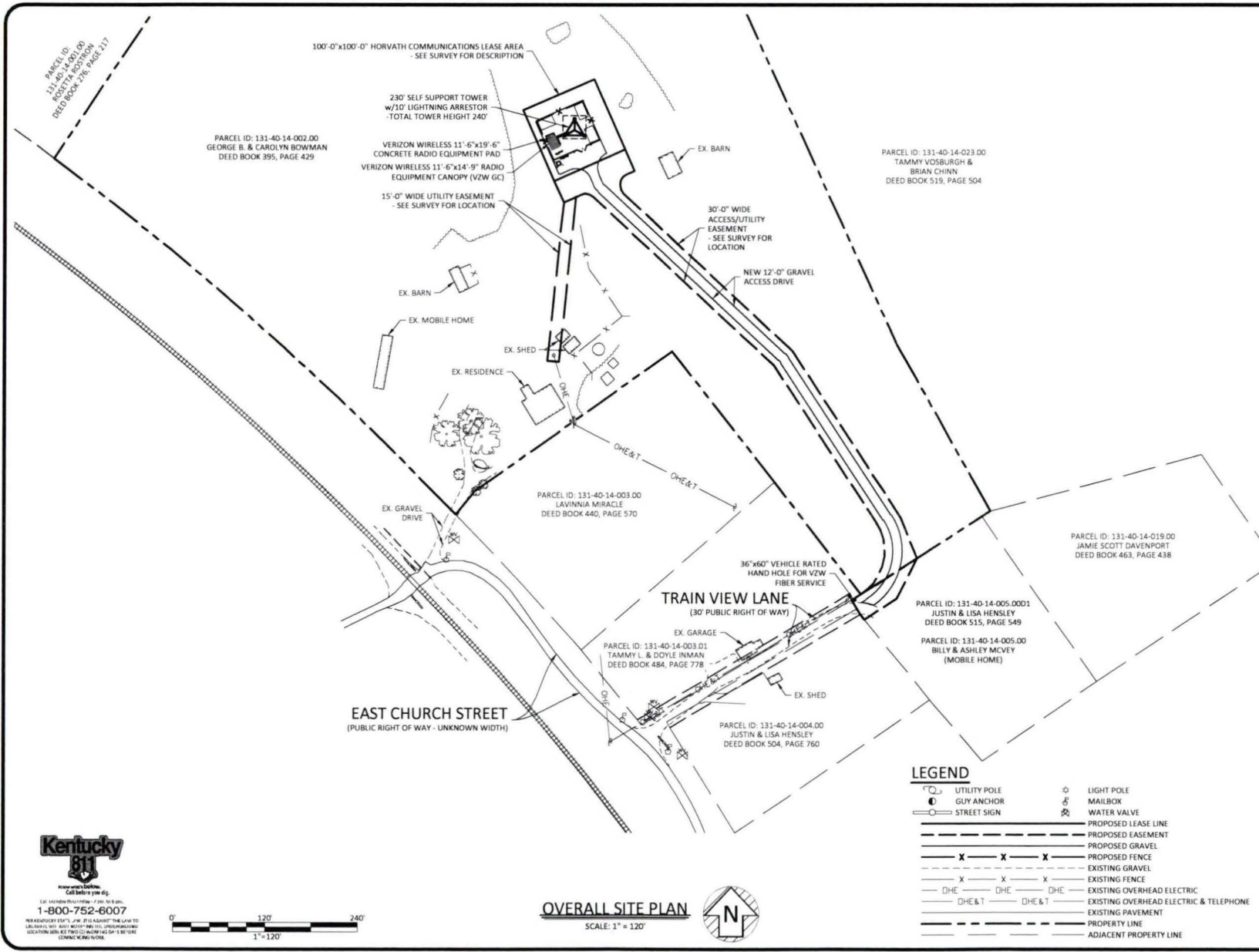
1-800-752-6007
 FOR MORE INFORMATION, VISIT US ONLINE AT
 WWW.KY811.COM




OVERALL SITE PLAN W/AERIAL OVERLAY


SCALE: 1" = 120'








13490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252



312 WEST COLFAX AVE
SOUTH BEND, IN 46601

3/8/2019



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	1.24.19	ISSUED FOR REVIEW
D	3.8.19	ISSUED AS FINAL

SITE INFORMATION:
PLEASANT VIEW
140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

HORVATH COMMUNICATIONS SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32362

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.23.19

SHEET TITLE:
OVERALL SITE PLAN

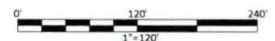
SHEET NUMBER:
C-1A

LEGEND

UTILITY POLE	LIGHT POLE
GUY ANCHOR	MAILBOX
STREET SIGN	WATER VALVE
PROPOSED LEASE LINE	PROPOSED EASEMENT
PROPOSED GRAVEL	PROPOSED FENCE
EXISTING GRAVEL	EXISTING FENCE
EXISTING OVERHEAD ELECTRIC	EXISTING OVERHEAD ELECTRIC & TELEPHONE
EXISTING PAVEMENT	PROPERTY LINE
ADJACENT PROPERTY LINE	

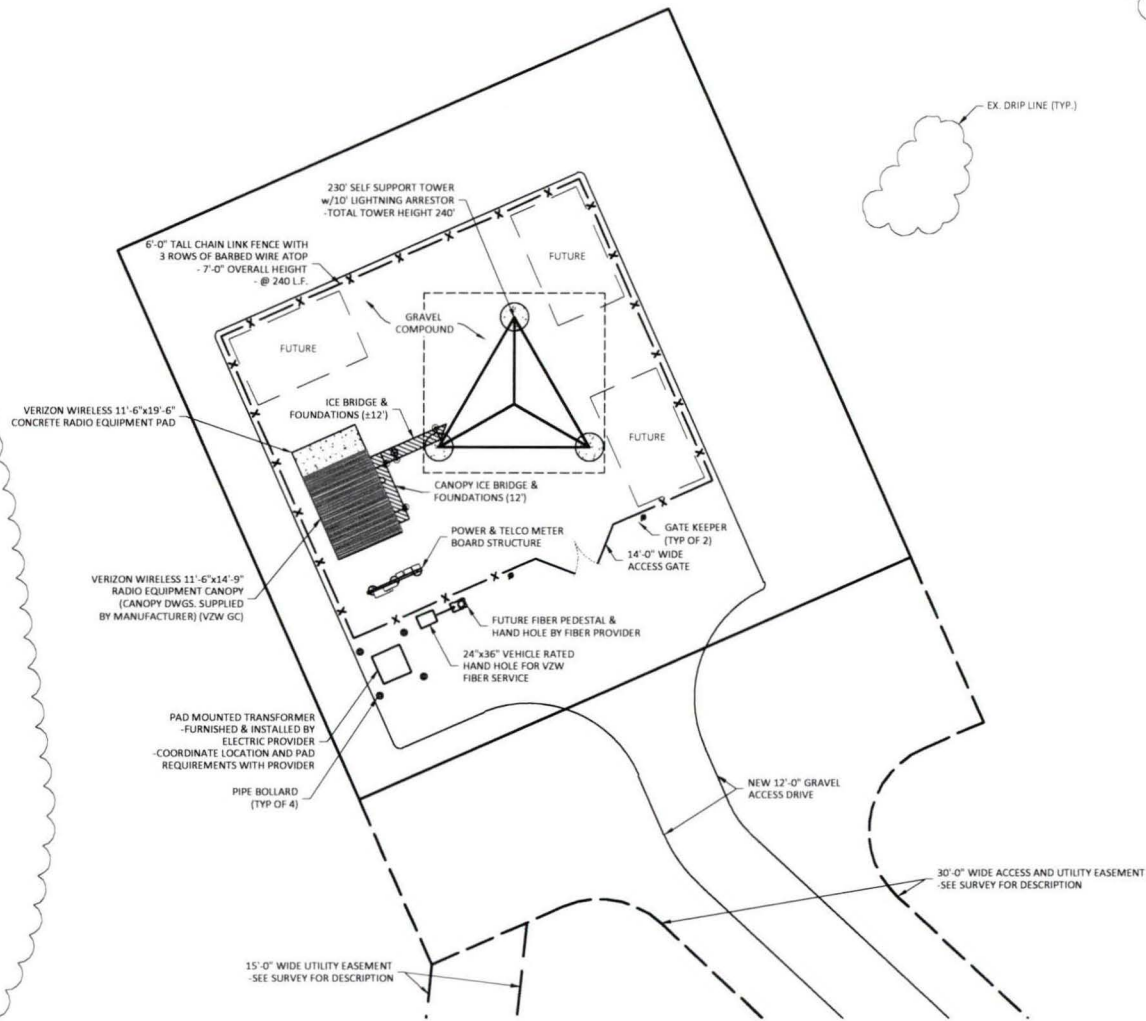


Call before you dig.
1-800-752-6007



OVERALL SITE PLAN
SCALE: 1" = 120'





312 WEST COLFAX AVE
SOUTH BEND, IN 46601

3/8/2019



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	1.24.19	ISSUED FOR REVIEW
D	3.8.19	ISSUED AS FINAL

SITE INFORMATION:

PLEASANT VIEW

140 EAST CHURCH STREET
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

HORVATH COMMUNICATIONS SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32362

DRAWN BY: POD
CHECKED BY: MEP
DATE: 01.23.19

SHEET TITLE:

DETAILED SITE PLAN

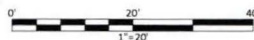
SHEET NUMBER:

C-3



1-800-752-6007
FOR KENTUCKY TIME LINES, IT'S AGAINST THE LAW TO
LEGALLY... WITHOUT MEETING THE UNDERLAINING
LOCATION SERVICE TWO (2) BUSINESS DAYS BEFORE
COMMERCIAL USE.

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



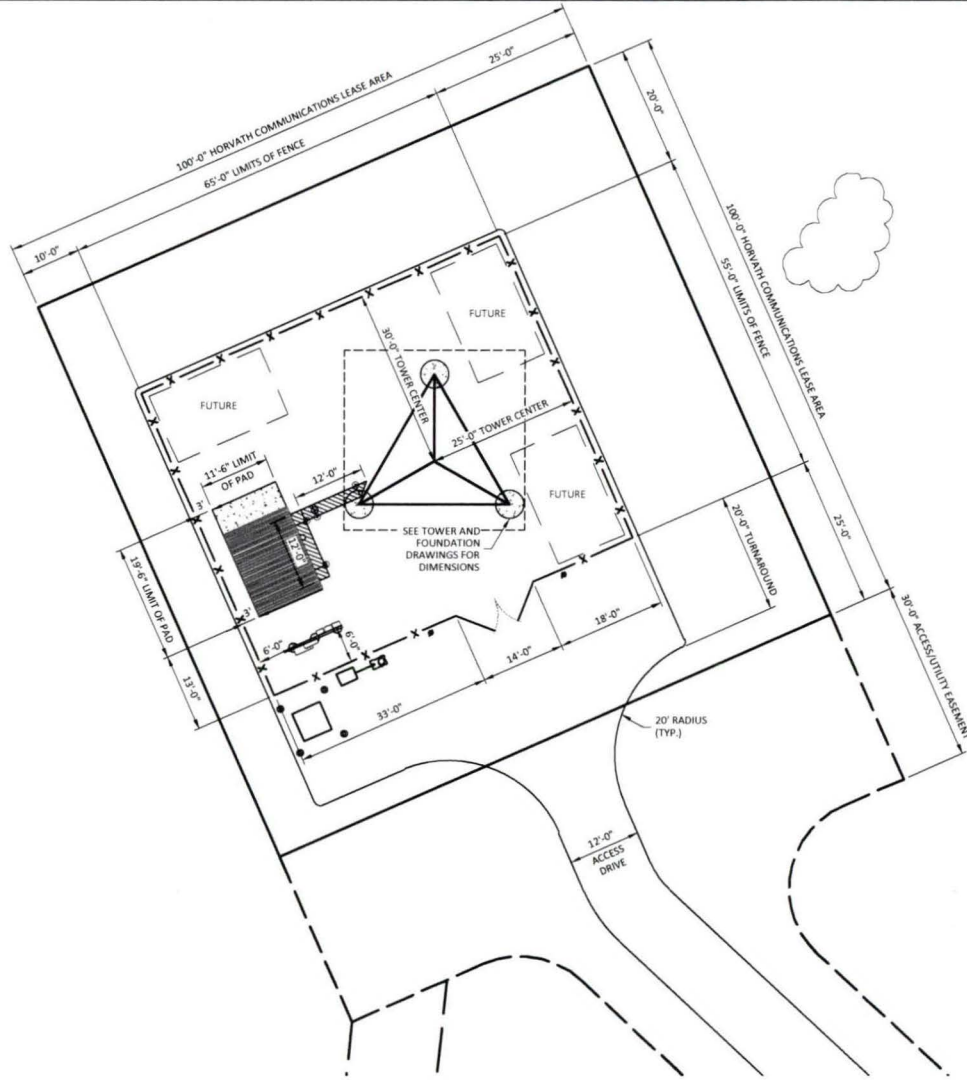
DETAILED SITE PLAN

SCALE: 1" = 20'



LEGEND

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



ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	1.24.19	ISSUED FOR REVIEW
0	3.8.19	ISSUED AS FINAL

SITE INFORMATION:
PLEASANT VIEW
 140 EAST CHURCH STREET
 WILLIAMSBURG, KY 40769
 WHITLEY COUNTY

HORVATH COMMUNICATIONS SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32362

DRAWN BY: POD
 CHECKED BY: MEP
 DATE: 01.23.19

SHEET TITLE:

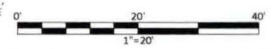
DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4



Verizon Wireless
 Call before you dig.
 1-800-752-6007
PERMITTING IS NOT A GUARANTEE OF THE ABILITY TO LOCATE. VERIZON WIRELESS, THE VERIZON WIRELESS LOGO, VERIZON WIRELESS SERVICE AND VERIZON WIRELESS SERVICE MARKETING ARE TRADEMARKS OF VERIZON.

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



DIMENSIONED SITE PLAN
 SCALE: 1" = 20'



LEGEND

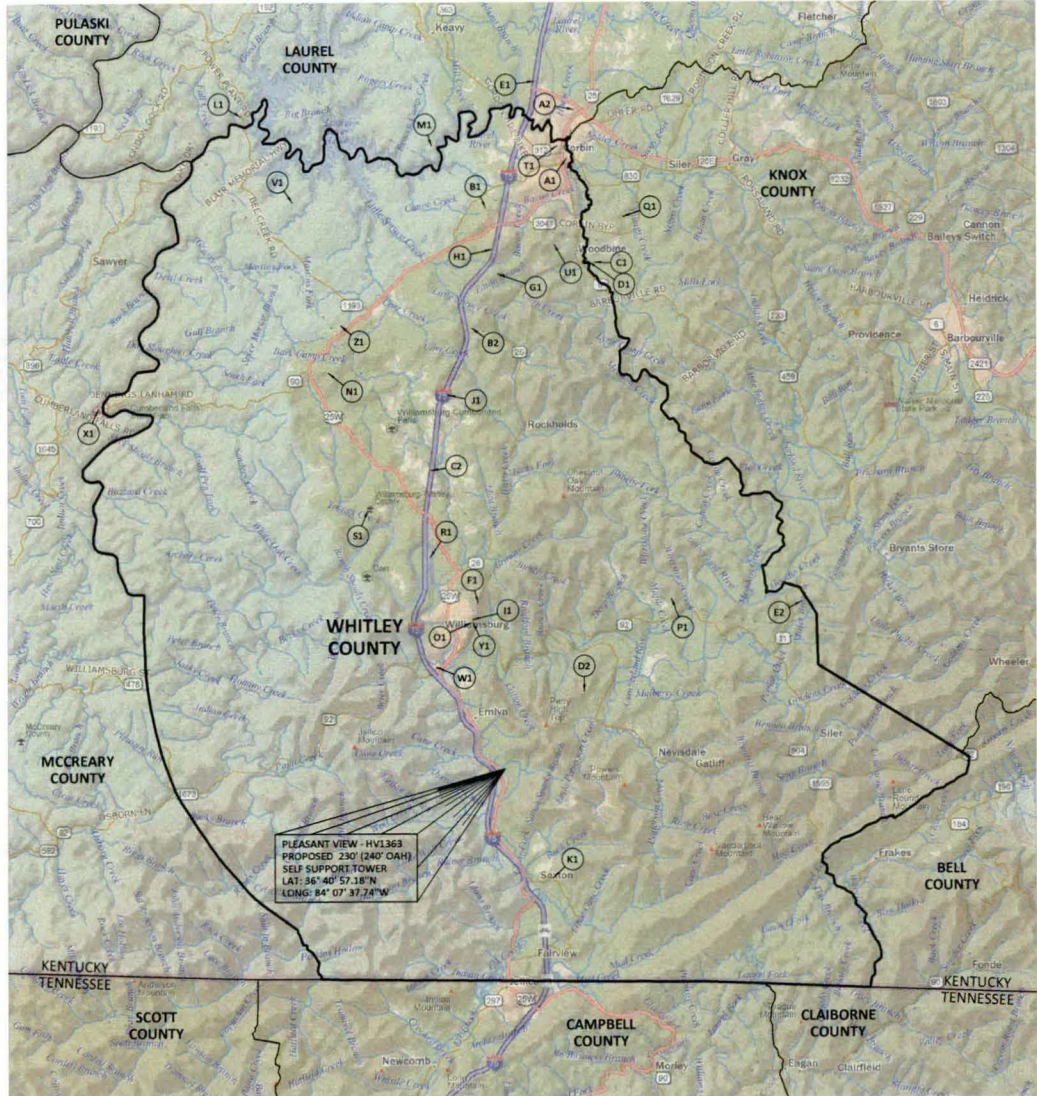
- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- x-x-x-x- PROPOSED FENCE

WHITLEY COUNTY, KENTUCKY
HORVATH COMMUNICATIONS SITE NAME: PLEASANT VIEW
VERIZON WIRELESS SITE NAME: LV PLEASANT VIEW



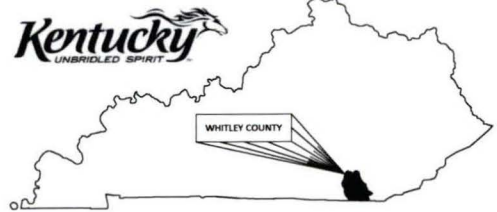
EXISTING TOWER LEGEND

- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|---|---|---|---|---|---|---|--|--|--|--|--|--|---|--|--|---|---|---|---|--|--|--|--|--|--|--|
| A1 FCC REGISTRATION #: 1003734
AMERICAN TOWERS, LLC
LAT: 36° 56' 49.5"N
LONG: 84° 05' 38.9"W | B1 FCC REGISTRATION #: 1041884
BELLSOUTH TELECOMMUNICATIONS, LLC
LAT: 36° 55' 31.9"N
LONG: 84° 08' 15.5"W | C1 FCC REGISTRATION #: 1043525
ENCORE COMMUNICATION
LAT: 36° 54' 08.0"N
LONG: 84° 04' 45.0"W | D1 FCC REGISTRATION #: 1043526
ENCORE COMMUNICATION
LAT: 36° 54' 09.0"N
LONG: 84° 04' 55.0"W | E1 FCC REGISTRATION #: 1043527
EUBANKS REALTY CORP
LAT: 36° 58' 51.0"N
LONG: 84° 06' 43.0"W | F1 FCC REGISTRATION #: 1043633
LITCHFIELD COUNTY CELLULAR, INC.
dba = RAMCELL OF KENTUCKY
LAT: 36° 45' 17.3"N
LONG: 84° 08' 30.8"W | G1 FCC REGISTRATION #: 1043635
LITCHFIELD COUNTY CELLULAR, INC.
dba = RAMCELL OF KENTUCKY
LAT: 36° 53' 50.0"N
LONG: 84° 07' 53.0"W | H1 FCC REGISTRATION #: 1043806
CROWN CASTLE SOUTH, LLC
LAT: 36° 54' 29.1"N
LONG: 84° 08' 04.7"W | I1 FCC REGISTRATION #: 1043812
CROWN CASTLE SOUTH, LLC
LAT: 36° 44' 50.0"N
LONG: 84° 08' 43.6"W | J1 FCC REGISTRATION #: 1204258
CROWN COMMUNICATIONS, LLC
LAT: 36° 50' 41.4"N
LONG: 84° 09' 27.9"W | K1 FCC REGISTRATION #: 1204844
CROWN COMMUNICATIONS, LLC
LAT: 36° 38' 08.6"N
LONG: 84° 06' 06.7"W | L1 FCC REGISTRATION #: 1205693
LONDON LAUREL COUNTY
COMMUNICATION CENTER
LAT: 36° 57' 56.0"N
LONG: 84° 10' 34.0"W | M1 FCC REGISTRATION #: 1232666 (GRANTED)
HEMPHILL CORPORATION
LAT: 36° 57' 09.9"N
LONG: 84° 10' 00.9"W | N1 FCC REGISTRATION #: 1233331 (GRANTED)
HEMPHILL CORPORATION
LAT: 36° 53' 15.9"N
LONG: 84° 13' 22.2"W | O1 FCC REGISTRATION #: 1237188
POWERTEL/MEMPHIS, INC.
LAT: 36° 44' 47.6"N
LONG: 84° 08' 45.9"W | P1 FCC REGISTRATION #: 1245198
CCATT, LLC
LAT: 36° 45' 25.0"N
LONG: 84° 02' 16.2"W | Q1 FCC REGISTRATION #: 1247122
CCATT, LLC
LAT: 36° 55' 19.4"N
LONG: 84° 03' 50.4"W | R1 FCC REGISTRATION #: 1250038
OUTREACH MINISTRIES, WECC, INC.
LAT: 36° 46' 28.7"N
LONG: 84° 10' 04.7"W | S1 FCC REGISTRATION #: 1252744
WILLIAMSBURG-WHITLEY COUNTY
AIRPORT
LAT: 36° 47' 42.9"N
LONG: 84° 12' 04.3"W | T1 FCC REGISTRATION #: 1258813
LONDON RADIO SERVICE, INC.
LAT: 36° 57' 10.4"N
LONG: 84° 05' 56.1"W | U1 FCC REGISTRATION #: 1265443
BLUEGRASS WIRELESS, LLC
LAT: 36° 48' 35.6"N
LONG: 84° 06' 02.0"W | V1 FCC REGISTRATION #: 1266729
CROWN CASTLE TOWERS 06-2, LLC
LAT: 36° 53' 41.7"N
LONG: 84° 14' 32.7"W | W1 FCC REGISTRATION #: 1268027
TOWER DEVELOPMENT CORPORATION
LAT: 36° 43' 37.7"N
LONG: 84° 09' 51.6"W | X1 FCC REGISTRATION #: 1268659
CUMBERLAND CELLULAR PARTNERSHIP
dba = BLUEGRASS CELLULAR
LAT: 36° 50' 21.0"N
LONG: 84° 20' 51.3"W | Y1 FCC REGISTRATION #: 1269040
WHITLEY COUNTY E-911
LAT: 36° 48' 43.9"N
LONG: 84° 08' 43.9"W | Z1 FCC REGISTRATION #: 1270631
EAST KENTUCKY NETWORK, LLC
LAT: 36° 52' 51.6"N
LONG: 84° 12' 59.0"W | A2 FCC REGISTRATION #: 1284353
EAST KENTUCKY NETWORK, LLC
dba = APPALACHIAN WIRELESS
LAT: 36° 58' 05.9"N
LONG: 84° 05' 24.4"W | B2 FCC REGISTRATION #: 1306643 (GRANTED)
EAST KENTUCKY NETWORK, LLC
dba = APPALACHIAN WIRELESS
LAT: 36° 52' 26.0"N
LONG: 84° 08' 41.7"W | C2 FCC REGISTRATION #: 1306870 (GRANTED)
EAST KENTUCKY NETWORK, LLC
dba = APPALACHIAN WIRELESS
LAT: 36° 48' 44.5"N
LONG: 84° 10' 02.6"W | D2 FCC REGISTRATION #: 1308008 (GRANTED)
EAST KENTUCKY NETWORK, LLC
dba = APPALACHIAN WIRELESS
LAT: 36° 45' 04.9"N
LONG: 84° 05' 04.9"W | E2 FCC REGISTRATION #: 1308009 (GRANTED)
EAST KENTUCKY NETWORK, LLC
dba = APPALACHIAN WIRELESS
LAT: 36° 45' 18.1"N
LONG: 83° 58' 02.8"W |
|--|---|--|--|---|---|---|---|---|---|---|--|--|--|--|--|--|---|--|--|---|---|---|---|--|--|--|--|--|--|--|



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

USGS 7.5 MINUTE QUADRANGLE: WILLIAMSBURG, KY



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

HORVATH
COMMUNICATIONS
312 WEST COLFAX AVE
SOUTH BEND, IN 46601
574.237.0464

EXHIBIT

REV.	DATE	DESCRIPTION
A	1.18.19	ISSUED FOR REVIEW

SITE INFORMATION:
PLEASANT VIEW
 140 EAST CHURCH STREET
 WILLIAMSBURG, KY 40769
 WHITLEY COUNTY
TAX PARCEL NUMBER:
 131-40-14-002.00 / 2045
PROPERTY OWNER:
 GEORGE B. & CAROLYN BOWMAN
 140 EAST CHURCH STREET
 WILLIAMSBURG, KY 40769
SOURCE OF TITLE:
 DEED BOOK 395, PAGE 429

SITE NUMBER:
HV1363

VERIZON WIRELESS SITE NAME:
LV PLEASANT VIEW

POD NUMBER: 18-32360
DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 12.28.18
PLAT DATE: 1.18.19

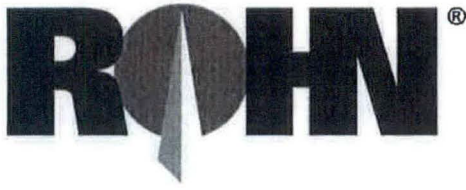
SHEET TITLE:
TOWER GRID
MAP

SHEET NUMBER: (1 pages)
C-1

ALL-STATE LEGAL

EXHIBIT



C



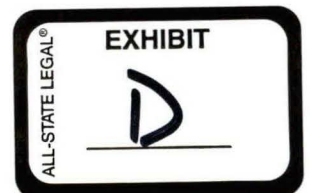
1 Fairholm Avenue
Peoria, IL 61603 USA
Phone: (309)-566-3000
Fax: (309)-566-3079

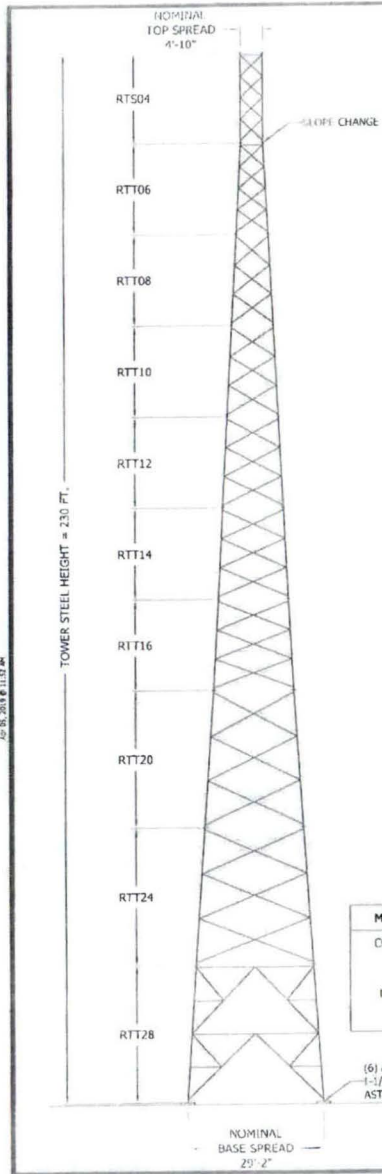
DATE: APRIL 05, 2019
PURCHASER: HORVATH COMMUNICATIONS
PROJECT: 230 FT RT SELF SUPPORT TOWER
HV1363 PLEASANT VIEW, KENTUCKY
FILE NUMBER: 229719
DRAWINGS: 229719-01-D1 , 229719-01-F1

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

CERTIFIED BY: 
DATE: 4/5/19 

Products for a Growing World of Technology®





GENERAL NOTES

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

MAXIMUM FACTORED REACTIONS	
COMPRESSION	= 395.2 KIPS
TENSION	= 335.1 KIPS
TOTAL SHEAR	= 69.2 KIPS
O.T.M.	= 9,341.0 FT-KIPS

(6) ANCHOR BOLTS (18 TOTAL)
 1-1/2" DIA. X 74" LONG
 ASTM F1554 Gr. 105

TOWER DESIGN LOADING		
DESIGN WIND LOAD PER ANSI/TIA-222-G: ASCE 7-16 ULTIMATE WIND SPEED (NO ICE) = 105 MPH BASIC WIND SPEED (ICE) = 30 MPH DESIGN ICE THICKNESS = 0.75 IN. STRUCTURE CLASS = II EXPOSURE CATEGORY = C TOPOGRAPHIC CATEGORY = 1 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION: $55 = 0.342 S1 = 0.101$		
THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:		

ELEVATION (FT)	ANTENNA TYPE	LINE SIZE (NOM)
TOP	LIGHTNING ROD & LIGHTING	(1) 3/4"
225	208 SQFT EPA MAX	(12) 1-5/8"
215	(1) 8FT STD DISH W/ RADOME (ZGHZ)	(1) EW63
205	165 SQFT EPA MAX	(12) 1-5/8"
195	165 SQFT EPA MAX	(12) 1-5/8"
185	165 SQFT EPA MAX	(12) 1-5/8"

SECTION MAIN MEMBER SCHEDULE			
SECTION	LEG	DIAGONAL	HORIZONTALS
RTS04	PIPE 2.875x0.203	L1 3/4x1 3/4x3/16 (4)	L1 1/2x1 1/2x3/16 (1)
RTT06	PIPE 3.500x0.216	L1 3/4x1 3/4x3/16 (4)	L1 3/4x1 3/4x3/16 (1)
RTT08	PIPE 4.500x0.337	L2 1/2x2 1/2x3/16 (3)	N/A
RTT10	PIPE 5.563x0.375	L2 1/2x2 1/2x3/16 (3)	N/A
RTT12	PIPE 5.563x0.375	L2 1/2x2 1/2x1/4 (3)	N/A
RTT14	PIPE 6.625x0.340	L3x3x3/16 (3)	N/A
RTT16	PIPE 6.625x0.432	L3x3x1/4 (3)	N/A
RTT20	PIPE 8.625x0.375	L3 1/2x3 1/2x1/4 (3)	N/A
RTT24	PIPE 8.625x0.375	L4x4x1/4 (2)	N/A
RTT28	PIPE 8.625x0.375	L4x4x1/4 (2)	L3 1/2x3 1/2x1/4 (2)

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

FILE NO.	229719			
REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP



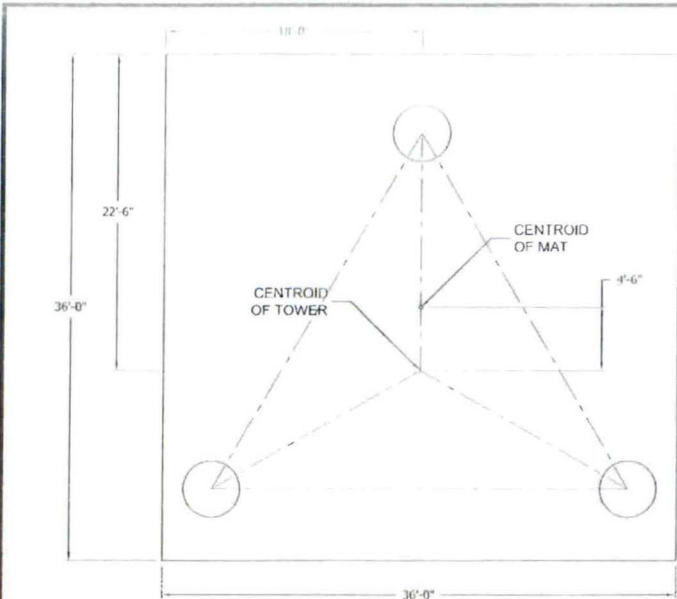
4/5/19

ROHN
 PRODUCTS LLC
 PO BOX 5999
 PEORIA, IL 61601-5999
 TOLL FREE 800-727-ROHN

THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS WITHOUT OUR WRITTEN CONSENT.

HORVATH COMMUNICATIONS
 DESIGN PROFILE
 230' RT TOWER
 HV1363 PLEASANT VIEW- KY

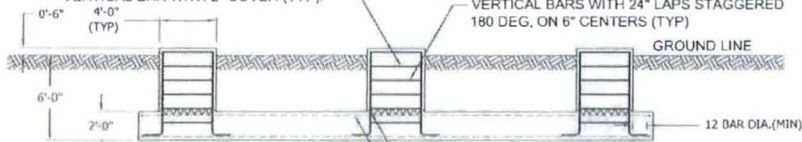
DWN:	RCS	CHRTD:	HA	DATE:	Apr/05/19
ENGR:	HA	SHEET #:	1	OF 1	
PRJ. ENGR:	RCS	PRJ. MNGR:			
DRAWING NO.	229719-01-D1			REV:	0



PLAN VIEW

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

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



(38) NO. 7 HORIZONTAL BARS EQUALLY SPACED EACH WAY, TOP & BOTTOM (152 TOTAL)

(16) NO. 8 VERTICAL BARS EQUALLY SPACED ON 39" DIA. CIRCULAR CAGE (CENTERLINE OF VERT. BARS) W/ STD ACI 318 HOOKS AT BOTTOM (TYP)

ELEVATION VIEW

FACTORED REACTIONS

Maximum O.T.M = 9,341.0 FT-K
 Total Tower Wt = 64.1 KIPS
 Total Shear = 69.2 KIPS
 Max. Shear/Leg = 43.1 KIPS
 Max. Ten./Leg = 335.1 KIPS
 Max. Comp./Leg = 395.2 KIPS

CONCRETE VOLUME

ROUND PIER 63 CU YDS
 PAD 95.0 CU YDS
 TOTAL 102.3 CU YDS

GENERAL NOTES

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SURFACE CONDITIONS ENCOUNTERED.
 - ULTIMATE SOIL BEARING PRESSURE AT 5 FT DEPTH = 12,000 PSF.
 - GROUND WATER TABLE IS AT OR BELOW FOUNDATION DEPTH.
 - MAXIMUM FROST PENETRATION DEPTH LESS THAN FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH THE PROJECT CONSTRUCTION DOCUMENTS, LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,500 PSI IN 28 DAYS.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 3/4 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING SHALL BE UTILIZED TO PREVENT HONEYCOMBS OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH MINIMUM COVER ON REINFORCEMENT.
- CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES NOR BE LESS THAN 2 INCHES.
- FOUNDATION DESIGN ASSUMES STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D898. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 110 POUNDS PER CUBIC FOOT.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. 19-33857 DATED 04/02/2019 BY POD, LLC.
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- ALL CONSTRUCTION AND SAFETY EQUIPMENT AND TEMPORARY SUPPORTS REQUIRED FOR CONSTRUCTION SHALL BE DETERMINED, FURNISHED AND INSTALL BY THE CONTRACTOR BASED ON THE MEANS AND METHODS CHOSEN BY THE CONTRACTOR. ALL CONSTRUCTION ACTIVITIES SHALL BE PERFORMED BY COMPETENT, QUALIFIED AND TRAINED PERSONNEL.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION AND ANCHOR TOLERANCES SEE ANCHOR ROD LAYOUT DRAWING.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- CONCRETE PREFERABLY SHALL BE PLACED AGAINST UNDISTURBED SOIL. WHEN FORMS ARE NECESSARY, THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
- CONSTRUCTION JOINTS IF REQUIRED AT THE BASE OF THE PIERS, SHALL BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH. FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- TOP OF FOUNDATION SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" MINIMUM.

NOTE: SEE STRUCTURE ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND ANCHORAGE EMBEDMENT DRAWING NUMBER.

FILE NO.	229719			
REVISIONS				
REV	DESCRIPTION	ENGR	CHK	APP



ROHN
 PRODUCTS LLC
 PO BOX 5999
 PEORIA, IL 61601-5999
 TOLL FREE 800-727-ROHN

THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

HORVATH COMMUNICATIONS
 MAT W/RAISED PIERS
 FOUNDATION DESIGN
 HV1363 PLEASANT VIEW- KY

DWR:	RCS	CHKD:	HA	DATE:	4/5/2019
ENGR:	HA	SHEET #:	1 OF 1		
PRJ. ENGR:	RLS	PRJ. MGR.:			
DRAWING NO	229719-01-F1			REV:	0

File: W:\Jobs\2019\229719\229719.out
Contract: 229719
Project: 230' RT TOWER
Date and Time: 4/5/2019 9:57:00 AM

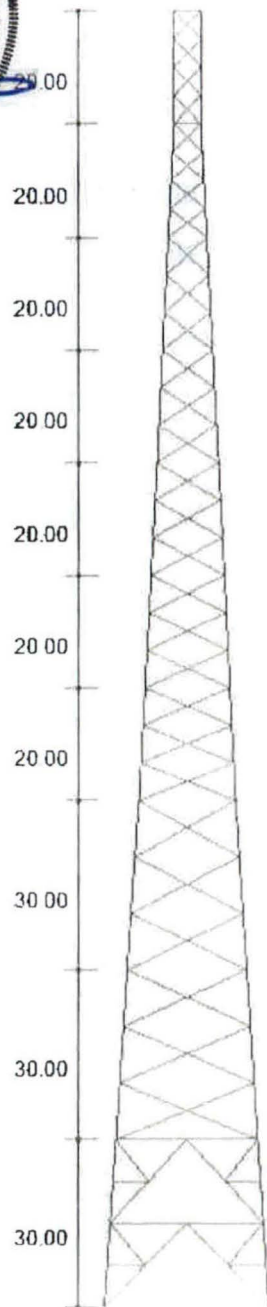
Revision: 0
Site: HV1363 PLEASANT VIEW- KY
Engineer: RCS



DESIGN SPECIFICATION

Design Standard: ANSI/TIA-222-G-2005 Add.2
Ultimate Design Wind Speed (No Ice) = 105.0 (mph)
Nominal Design Wind Speed (No Ice) = 81.3 (mph)
Basic Wind Speed (With Ice) = 30.0 (mph)
Design Ice Thickness = 0.75 (in)
Structure Class = II
Exposure Category = C
Topographic Category = 1

Sct	Length (ft)	Top W. (in)	Bot Width (in)
1	30.00	301.97	349.97
2	30.00	253.97	301.97
3	30.00	205.97	253.97
4	20.00	180.24	205.97
5	20.00	156.24	180.24
6	20.00	131.32	156.24
7	20.00	107.32	131.32
8	20.00	82.40	107.32
9	20.00	57.53	82.40
10	20.00	56.99	57.53



MAXIMUM BASE REACTIONS

Download (Kips)	395.2
Uplift (Kips)	335.1
Shear (Kips)	43.1
O.T.M. (Ft Kips)	9341.02

(6) 1.50" X 74" ANCHOR BOLTS PER LEG
(18 TOTAL)



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Products
 Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section A: PROJECT DATA

Project Title: 230' RT TOWER
 Customer Name: HORVATH COMMUNICATIONS
 Site: HV1363 PLEASANT VIEW- KY
 Contract No.: 229719
 Revision: 0
 Engineer: RCS
 Date: Apr 5 2019
 Time: 09:34:28 AM

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

GENERAL DESIGN CONDITIONS

Start wind direction: 0.00 (Deg)
 End wind direction: 330.00 (Deg)
 Increment wind direction: 30.00 (Deg)
 Elevation above ground: 0.00 (ft)
 Gust Response Factor Gh: 0.85
 Structure class: II
 Exposure category: C
 Topographic category: 1
 Material Density: 490.1 (lbs/ft^3)
 Young's Modulus: 29000.0 (ksi)
 Poisson Ratio: 0.30
 Weight Multiplier: 1.25
 Minimum Bracing Resistance as per 4.4.1

WIND ONLY CONDITIONS:
 Ultimate Design Wind Speed (No Ice): 105.00 (mph)
 Nominal Design Wind Speed (No Ice): 81.33 (mph)
 Directionality Factor Kd: 0.85
 Importance Factor I: 1.00
 Wind Load Factor: 1.60
 Dead Load Factor: 1.20
 Dead Load Factor for Uplift: 0.90

WIND AND ICE CONDITIONS:
 Basic Wind Speed (With Ice): 30.00 (mph)
 Directionality Factor Kd: 0.85
 Wind Load Importance Factor Iw: 1.00
 Ice Thickness Importance Factor Ii: 1.00
 Ice Thickness: 0.75 (in)
 Ice Density: 56.19 (lbs/ft^3)
 Wind Load Factor: 1.00
 Dead Load Factor: 1.20
 Ice Load Factor: 1.00

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

EARTHQUAKE CONDITIONS:
 Site class definition: D
 Spectral response acceleration Ss: 0.342
 Spectral response acceleration S1: 0.101
 Acceleration-based site coefficient Fa: 1.526
 Velocity-based site coefficient Fv: 2.396
 Design spectral response acceleration Sds: 0.348



TSTower - v 5.8.3 Tower Analysis Program
(c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
Peoria, IL

File: W:\Jobs\2019\229719\229719.out
Contract: 229719
Project: 230' RT TOWER
Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
Site: HV1363 PLEASANT VIEW- KY
Engineer: RCS

Design spectral response acceleration Sd1: 0.161
Seismic analysis method: 1
Fundamental frequency of structure f1: 0.838
Total seismic shear Vs (Kips) : 2.87

Analysis performed using: TowerSoft Finite Element Analysis Program



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section B: STRUCTURE GEOMETRY

TOWER GEOMETRY

Cross-Section	Height (ft)	Tot Height (ft)	# of Section	Bot Width (in)	Top Width (in)
Triangular	230.00	230.00	10	349.97	56.99

SECTION GEOMETRY

#	Sec. Name	Elevation		Widths		Legs (lbs)	Brcg. (lbs)	Masses			Brcg. Clear. (in)	
		Bottom (ft)	Top (ft)	Bottom (in)	Top (in)			Sec.Brc (lbs)	Int.Brc (lbs)	Sect. (lbs)		Database (lbs)
10	RTS04	210.00	230.00	58	57	434	470	0	0	903	0	0.787
9	RTT06	190.00	210.00	82	58	570	525	0	0	1095	0	0.787
8	RTT08	170.00	190.00	107	82	1127	714	0	0	1841	0	0.787
7	RTT10	150.00	170.00	131	107	1562	826	0	0	2388	0	0.787
6	RTT12	130.00	150.00	156	131	1562	1250	0	0	2813	0	0.787
5	RTT14	110.00	130.00	180	156	1714	1296	0	0	3010	0	0.787
4	RTT16	90.00	110.00	206	180	2151	1920	0	0	4071	0	0.787
3	RTT20	60.00	90.00	254	206	3727	2799	0	0	6526	0	0.787
2	RTT24	30.00	60.00	302	254	3727	3751	0	0	7478	0	0.787
1	RTT28*	0.00	30.00	350	302	3727	3168	1044	301	8240	0	0.787
Total Mass:						20301	16718	1044	301	38364	0	

PANEL GEOMETRY

Sec#	Pnl#	Type	SecBrcg	Mid. Horiz Continuous	Horiz Height (ft)	Bottom Width (in)	Top Width (in)	Plan Bracing	Hip Bracing	Gusset Plate Area (ft^2)	Gusset Plate Weight (lbs)
10	4	X	(None)		Yes 5.0	57.1	57.0	(None)	(None)	0.260	0.00
10	3	X	(None)		None 5.0	57.3	57.1	(None)	(None)	0.260	0.00
10	2	X	(None)		None 5.0	57.4	57.3	(None)	(None)	0.260	0.00
10	1	X	(None)		None 5.0	57.5	57.4	(None)	(None)	0.260	0.00
9	4	X	(None)		Yes 5.0	63.7	57.5	(None)	(None)	0.260	0.00
9	3	X	(None)		None 5.0	70.0	63.7	(None)	(None)	0.000	0.00
9	2	X	(None)		None 5.0	76.2	70.0	(None)	(None)	0.000	0.00
9	1	X	(None)		None 5.0	82.4	76.2	(None)	(None)	0.000	0.00
8	3	X	(None)		None 6.7	90.7	82.4	(None)	(None)	0.260	0.00
8	2	X	(None)		None 6.7	99.0	90.7	(None)	(None)	0.260	0.00
8	1	X	(None)		None 6.7	107.3	99.0	(None)	(None)	0.260	0.00
7	3	X	(None)		None 6.7	115.3	107.3	(None)	(None)	0.260	0.00
7	2	X	(None)		None 6.7	123.3	115.3	(None)	(None)	0.300	0.00
7	1	X	(None)		None 6.7	131.3	123.3	(None)	(None)	0.300	0.00
6	3	X	(None)		None 6.7	139.6	131.3	(None)	(None)	0.300	0.00
6	2	X	(None)		None 6.7	147.9	139.6	(None)	(None)	0.300	0.00
6	1	X	(None)		None 6.7	156.2	147.9	(None)	(None)	0.300	0.00
5	3	X	(None)		None 6.7	164.2	156.2	(None)	(None)	0.300	0.00
5	2	X	(None)		None 6.7	172.2	164.2	(None)	(None)	0.300	0.00
5	1	X	(None)		None 6.7	180.2	172.2	(None)	(None)	0.300	0.00
4	3	X	(None)		None 6.7	188.8	180.2	(None)	(None)	0.300	0.00
4	2	X	(None)		None 6.7	197.4	188.8	(None)	(None)	0.300	0.00
4	1	X	(None)		None 6.7	206.0	197.4	(None)	(None)	0.300	0.00
3	3	X	(None)		None 10.0	222.0	206.0	(None)	(None)	0.000	0.00
3	2	X	(None)		None 10.0	238.0	222.0	(None)	(None)	0.000	0.00
3	1	X	(None)		None 10.0	254.0	238.0	(None)	(None)	0.000	0.00
2	3	X	(None)		None 10.0	270.0	254.0	(None)	(None)	0.300	0.00
2	2	X	(None)		None 10.0	286.0	270.0	(None)	(None)	0.300	0.00
2	1	X	(None)		None 10.0	302.0	286.0	(None)	(None)	0.300	0.00
1	2	K	2-Subdiv.	Yes	15.0	326.0	302.0	2-Subdiv.	(None)	0.000	0.00
1	1	K	2-Subdiv.	Yes	15.0	350.0	326.0	2-Subdiv.	(None)	0.000	0.00

MEMBER PROPERTIES



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Sec/Member Pnl Spacing	Type	Description	Steel Grade	Conn. Type	Bolt # - Size	Bolt Grade	End Dist.	Edge Dist.	Gusset Thick.	Gusset Grade	Bolt Space	Dble Mem.
	Stitch											
	Bolt				(in)		(in)	(in)	(in)		(in)	(in)
	(ft)											
10/4	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4-0.750	A325X						
10/4	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.500	A325X	1.250	0.875	0.250	A572	gr.50	2.000
10/4	Horiz	L1 1/2x1 1/2x3/16	A529	gr.50Bolted	1-0.500	A325X	1.250	0.750	0.250	A529	gr.50	2.000
10/3	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4-0.750	A325X						
10/3	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.500	A325X	1.250	0.875	0.250	A572	gr.50	2.000
10/2	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4-0.750	A325X						
10/2	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.500	A325X	1.250	0.875	0.250	A572	gr.50	2.000
10/1	Leg	PIPE 2.875x0.203	A500	gr.CSTension	4-0.750	A325X						
10/1	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.500	A325X	1.250	0.875	0.250	A572	gr.50	2.000
9/4	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
9/4	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
9/4	Horiz	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A529	gr.50	2.000
9/3	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
9/3	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
9/2	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
9/2	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
9/1	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
9/1	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
8/3	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
8/3	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
8/2	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
8/2	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
8/1	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
8/1	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
7/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
7/3	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
7/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
7/2	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
7/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
7/1	Diag	L2 1/2x2 1/2x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
6/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
6/3	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
6/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
6/2	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	2.000
6/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
6/1	Diag	L2 1/2x2 1/2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572	gr.50	



TSTower - v 5.8.3 Tower Analysis Program
(c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
Peoria, IL

File: W:\Jobs\2019\229719\229719.out
Contract: 229719
Project: 230' RT TOWER
Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
Site: HV1363 PLEASANT VIEW- KY
Engineer: RCS

																						2.000	
5/3	Leg	PIPE 6.625x0.340	A500 gr.CSTension	6-1.000	A325X																		
5/3	Diag	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572 gr.50														2.000
5/2	Leg	PIPE 6.625x0.340	A500 gr.CSTension	6-1.000	A325X																		
5/2	Diag	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572 gr.50														2.000
5/1	Leg	PIPE 6.625x0.340	A500 gr.CSTension	6-1.000	A325X																		
5/1	Diag	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572 gr.50														2.000
4/3	Leg	PIPE 6.625x0.432	A500 gr.CSTension	6-1.500	A325X																		
4/3	Diag	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572 gr.50														2.000
4/2	Leg	PIPE 6.625x0.432	A500 gr.CSTension	6-1.500	A325X																		
4/2	Diag	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572 gr.50														2.000
4/1	Leg	PIPE 6.625x0.432	A500 gr.CSTension	6-1.500	A325X																		
4/1	Diag	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572 gr.50														2.000
3/3	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X																		
3/3	Diag	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.250	A572 gr.50														2.000
3/2	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X																		
3/2	Diag	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.250	A572 gr.50														2.000
3/1	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X																		
3/1	Diag	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	1.750	0.250	A572 gr.50														2.000
2/3	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X																		
2/3	Diag	L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.250	A572 gr.50														2.000
2/2	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X																		
2/2	Diag	L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.250	A572 gr.50														2.000
2/1	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X																		
2/1	Diag	L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.250	A572 gr.50														2.000
1/2	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X																		
1/2	Diag	L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572 gr.50														2.000
1/2	Horiz	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.130	0.375	A572 gr.50														2.000
1/2	SecD1	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.630	0.250	A572 gr.50														2.000
1/2	SecH1	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.630	0.250	A572 gr.50														2.000
1/2	PlanH1	L2 1/2x2 1/2x3/16	A529 gr.50Boited	1-0.625	A325X	1.500	1.250	0.250	A572 gr.50														2.000
1/1	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X																		
1/1	Diag	L4x4x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.000	0.375	A572 gr.50														2.000
1/1	Horiz	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.125	2.130	0.375	A572 gr.50														2.000
1/1	SecD1	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.630	0.250	A572 gr.50														2.000
1/1	SecH1	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.630	0.250	A572 gr.50														2.000
1/1	PlanH1	L2 1/2x2 1/2x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.250	0.250	A572 gr.50														2.000



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section C: ANTENNA DATA

Structure Azimuth from North: 0

ANTENNAS

Ant No.	Elev. (ft)	Antenna (#) Type	Ant. Azim.	Mount. Radius (ft)	Mount Type	Tx Line (#) Type	Mounting Pipe Size (in)	Length (ft)	Full Shielded	Ka
1	215.00	(1) SD8ft TIA Radome with radome	0	3.07		0				1.00
		Vert. Offset 0.00 (ft)								

ANTENNA AND MOUNT WIND AREAS AND WEIGHTS

Ant No.	Antenna/Mount	Frontal Bare Area (ft)^2	Lateral Bare Area (ft)^2	Frontal Iced Area (ft)^2	Lateral Iced Area (ft)^2	Weight Bare (lbs)	Weight Iced (lbs)	Frequency GHz	Allowable Signal Loss dB	Gh Mount Ka
1	SD8ft TIA Radome with radome	43.39	6.71	43.39	6.71	260.00	1313.57	2.00	10	0.85



TS Tower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



ROHN
 Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section D: TRANSMISSION LINE DATA

Transmission Lines Position

No.	Bot El (ft)	Top El (ft)	Desc.	Radius (ft)	Az.	Orient.	No.	No. of Rows	Vert.	Antenna	User Ka
1	0.00	230.00	3/8 CABLE	18.00	0.00	0.00	1	1	No		
2	0.00	230.00	TX Ladder	9.72	60.00	30.00	1	1	No		
3	0.00	230.00	LDF7P-50A	9.72	60.00	30.00	12	2	No		
4	0.00	205.00	TX Ladder	9.72	180.00	150.00	1	1	No		
5	0.00	205.00	LDF7P-50A	9.72	180.00	150.00	12	2	No		
6	0.00	195.00	TX Ladder	9.72	300.00	270.00	1	1	No		
7	0.00	195.00	LDF7P-50A	9.72	300.00	270.00	12	2	No		
8	0.00	185.00	TX Ladder	9.72	300.00	330.00	1	1	No		
9	0.00	185.00	LDF7P-50A	9.72	300.00	330.00	12	2	No		
10	0.00	215.00	EW63	9.72	60.00	30.00	1	1	No		

Transmission Lines Details

No.	Desc.	Width (in)	Depth (in)	Unit Mass (lb/ft)	Line Spacing (in)	Row Spacing (in)
1	3/8 CABLE	0.38	0.38	1.00	2.750	2.750
2	TX Ladder	4.70	1.50	4.00	2.750	2.750
3	LDF7P-50A	2.01	2.01	0.92	2.750	2.750
4	TX Ladder	4.70	1.50	4.00	2.750	2.750
5	LDF7P-50A	2.01	2.01	0.92	2.750	2.750
6	TX Ladder	4.70	1.50	4.00	2.750	2.750
7	LDF7P-50A	2.01	2.01	0.92	2.750	2.750
8	TX Ladder	4.70	1.50	4.00	2.750	2.750
9	LDF7P-50A	2.01	2.01	0.92	2.750	2.750
10	EW63	1.16	2.01	0.51	2.750	2.750



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section F: POINT LOAD DATA

Structure Azimuth from North:0.00

POINT LOADS

No.	Description	Elev. (ft)	Radius (ft)	Azim. (Deg)	Orient. (Deg)	Vertical Offset (ft)	Tx Line	Comments
1	LIGHTNING ROD & LIGHTING	230.00	3.00	0.0	0.0	0.00		
2	208 SQFT EPA MAX	225.00	1.00	0.0	0.0	0.00		
3	165 SQFT EPA MAX	205.00	1.00	120.0	120.0	0.00		
4	165 SQFT EPA MAX	195.00	1.00	240.0	240.0	0.00		
5	165 SQFT EPA MAX	185.00	1.00	0.0	0.0	0.00		

POINT LOADS WIND AREAS AND WEIGHTS

No.	Description	Frontal Bare Area (ft^2)	Lateral Bare Area (ft^2)	Frontal Iced Area (ft^2)	Lateral Iced Area (ft^2)	Weight Bare (Kips)	Weight Iced (Kips)	Gh
1	LIGHTNING ROD & LIGHTING	5.00	5.00	10.00	10.00	0.35	0.70	0.85
2	208 SQFT EPA MAX	208.00	208.00	416.00	416.00	3.00	6.00	0.85
3	165 SQFT EPA MAX	165.00	165.00	330.00	330.00	3.00	6.00	0.85
4	165 SQFT EPA MAX	165.00	165.00	330.00	330.00	3.00	6.00	0.85
5	165 SQFT EPA MAX	165.00	165.00	330.00	330.00	3.00	6.00	0.85



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section H: STRUCTURE DISPLACEMENT DATA
 Load Combination Max Envelope

Wind Direction		Maximum displacements						
Node	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert. Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist (Deg)	
102	230.0	33.6	33.3	-0.4	1.53	1.50	-0.30	
99	225.0	32.0	31.7	-0.4	1.56	1.54	0.31	
96	220.0	30.4	30.1	-0.4	1.53	1.51	-0.27	
93	215.0	28.8	28.5	-0.4	1.50	1.47	0.25	
90	210.0	27.2	26.9	-0.4	1.43	1.42	-0.20	
87	205.0	25.7	-25.5	-0.4	1.42	1.41	0.18	
84	200.0	24.2	-24.0	-0.4	1.31	1.29	-0.12	
81	195.0	22.8	-22.6	-0.4	1.32	-1.31	0.15	
78	190.0	21.4	-21.3	-0.4	1.19	1.17	0.10	
75	183.3	19.8	-19.6	-0.4	1.19	-1.18	0.12	
72	176.7	18.1	-18.0	-0.4	1.07	-1.06	0.08	
69	170.0	16.6	-16.5	-0.4	1.06	-1.06	0.09	
66	163.3	15.1	-15.0	-0.4	0.97	-0.96	0.06	
63	156.7	13.8	-13.7	-0.3	0.96	-0.95	0.07	
60	150.0	12.5	-12.4	-0.3	0.86	-0.85	0.05	
57	143.3	11.3	-11.2	-0.3	0.84	-0.83	-0.06	
54	136.7	10.1	-10.0	-0.3	0.75	-0.74	0.04	
51	130.0	9.1	-9.0	-0.3	0.73	-0.73	-0.05	
48	123.3	8.0	-8.0	-0.3	0.65	-0.64	0.03	
45	116.7	7.1	-7.1	-0.3	0.63	-0.63	-0.04	
42	110.0	6.2	-6.2	-0.3	0.54	-0.53	0.02	
39	103.3	5.5	-5.5	-0.2	0.54	-0.54	-0.03	
36	96.7	4.7	-4.7	-0.2	0.45	-0.45	-0.02	
33	90.0	4.1	-4.1	-0.2	0.44	-0.43	0.03	
30	80.0	3.2	-3.2	-0.2	0.35	-0.35	-0.02	
27	70.0	2.5	-2.5	-0.2	0.33	-0.33	0.02	
24	60.0	1.8	-1.8	-0.2	0.25	-0.25	-0.02	
21	50.0	1.2	-1.2	-0.1	0.23	-0.23	0.01	
18	40.0	0.8	-0.8	-0.1	0.17	-0.17	-0.01	
14	30.0	0.4	0.4	-0.1	0.10	-0.10	0.01	
8	15.0	0.1	0.1	0.0	0.03	0.03	0.00	
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00	

Load Combination Wind Only - Serviceability

Wind Direction		Maximum displacements						
Node	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert. Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist (Deg)	
102	230.0	11.6	11.4	-0.1	0.53	0.52	-0.10	
99	225.0	11.0	10.9	-0.1	0.54	0.53	0.11	
96	220.0	10.5	10.3	-0.1	0.53	0.52	0.09	
93	215.0	9.9	9.8	-0.1	0.52	0.50	0.08	
90	210.0	9.4	9.2	-0.1	0.49	0.48	-0.07	
87	205.0	8.8	-8.7	-0.1	0.49	0.48	0.06	
84	200.0	8.3	-8.2	-0.1	0.45	0.44	-0.04	
81	195.0	7.9	-7.8	-0.1	0.45	0.45	0.05	
78	190.0	7.4	-7.3	-0.1	0.41	0.40	0.03	
75	183.3	6.8	-6.7	-0.1	0.41	-0.40	0.04	
72	176.7	6.2	-6.2	-0.1	0.37	-0.36	0.03	
69	170.0	5.7	-5.7	-0.1	0.37	-0.36	0.03	
66	163.3	5.2	-5.2	-0.1	0.33	-0.33	0.02	
63	156.7	4.8	-4.7	-0.1	0.33	-0.33	0.02	
60	150.0	4.3	-4.3	-0.1	0.29	-0.29	0.02	
57	143.3	3.9	-3.9	-0.1	0.29	-0.29	0.02	
54	136.7	3.5	-3.5	-0.1	0.26	-0.25	0.01	



TSTower - v 5.8.3 Tower Analysis Program
(c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
Peoria, IL

File: W:\Jobs\2019\229719\229719.out
Contract: 229719
Project: 230' RT TOWER
Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
Site: HV1363 PLEASANT VIEW- KY
Engineer: RCS

51	130.0	3.1	-3.1	-0.1	0.25	-0.25	0.02
48	123.3	2.8	-2.8	-0.1	0.22	-0.22	0.01
45	116.7	2.5	-2.4	-0.1	0.22	-0.22	0.01
42	110.0	2.2	-2.1	-0.1	0.19	-0.18	0.01
39	103.3	1.9	-1.9	-0.1	0.19	-0.19	-0.01
36	96.7	1.6	-1.6	-0.1	0.16	-0.15	-0.01
33	90.0	1.4	-1.4	-0.1	0.15	-0.15	-0.01
30	80.0	1.1	-1.1	-0.1	0.12	-0.12	-0.01
27	70.0	0.9	-0.9	-0.1	0.11	-0.11	-0.01
24	60.0	0.6	-0.6	0.0	0.09	-0.09	-0.01
21	50.0	0.4	-0.4	0.0	0.08	-0.08	0.00
18	40.0	0.3	-0.3	0.0	0.06	-0.06	0.00
14	30.0	0.1	0.1	0.0	0.03	-0.03	0.00
8	15.0	0.0	0.0	0.0	0.01	0.01	0.00
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Licensed To: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.cut
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section J: ANTENNA DISPLACEMENT DATA

Load Combination Wind Only - Serviceability

Wind Direction

Maximum displacements

Ant.	Elev. (ft)	N-S Disp (in)	W-E Disp (in)	Vert.Disp (in)	N-S Rot (Deg)	W-E Rot (Deg)	Twist Tot (Deg)	Allow. (Deg)
1	215.00	9.9	9.8	-0.1	0.52	0.50	0.08	3.32



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section L: STRENGTH ASSESSMENT SORTED DATA

Sec	Pnl	Elev.	MType	Desc.	Len	kl/r	Gov. comp. cap. (Kips)	Gov. tens. cap. (Kips)	Max Compr. (Kips)	Max Tens. (Kips)	Asses. Ratio
		(ft)			(ft)						
10	4	225.00	Leg	PIPE 2.875x0.203	5.00	63.4	57.1	76.5	1.4	0.5	0.03
10	3	220.00	Leg	PIPE 2.875x0.203	5.00	63.4	57.1	76.5	6.8	3.6	0.12
10	2	215.00	Leg	PIPE 2.875x0.203	5.00	63.4	57.1	76.5	16.5	13.1	0.29
10	1	210.00	Leg	PIPE 2.875x0.203	5.00	63.4	57.1	76.5	25.3	21.7	0.44
9	4	205.00	Leg	PIPE 3.500x0.216	5.01	51.8	82.5	100.4	33.1	29.2	0.40
9	3	200.00	Leg	PIPE 3.500x0.216	5.01	51.8	82.5	100.4	45.8	39.8	0.55
9	2	195.00	Leg	PIPE 3.500x0.216	5.01	51.8	82.5	100.4	55.5	49.0	0.67
9	1	190.00	Leg	PIPE 3.500x0.216	5.01	51.8	82.5	100.4	69.8	59.2	0.85
8	3	183.33	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	85.7	73.7	0.54
8	2	176.67	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	104.1	89.8	0.65
8	1	170.00	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	123.4	107.6	0.77
7	3	163.33	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	139.4	122.5	0.58
7	2	156.67	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	155.9	137.6	0.65
7	1	150.00	Leg	PIPE 5.563x0.375	6.68	43.6	239.4	275.0	170.2	150.6	0.71
6	3	143.33	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	184.6	163.6	0.77
6	2	136.67	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	197.5	175.0	0.82
6	1	130.00	Leg	PIPE 5.563x0.375	6.68	43.6	239.3	275.0	210.3	186.6	0.88
5	3	123.33	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	222.5	197.4	0.81
5	2	116.67	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	234.8	208.3	0.85
5	1	110.00	Leg	PIPE 6.625x0.340	6.68	36.0	274.8	302.1	246.7	218.7	0.90
4	3	103.33	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	378.5	258.1	228.6	0.75
4	2	96.67	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	378.5	269.2	237.9	0.78
4	1	90.00	Leg	PIPE 6.625x0.432	6.68	36.4	343.5	378.5	279.8	246.8	0.81
3	3	80.00	Leg	PIPE 8.625x0.375	10.03	41.2	386.3	437.4	291.4	256.0	0.75
3	2	70.00	Leg	PIPE 8.625x0.375	10.03	41.2	386.3	437.4	305.1	266.8	0.79
3	1	60.00	Leg	PIPE 8.625x0.375	10.03	41.2	386.3	437.4	316.5	275.8	0.82
2	3	50.00	Leg	PIPE 8.625x0.375	10.03	41.2	386.3	437.4	329.8	286.0	0.85
2	2	40.00	Leg	PIPE 8.625x0.375	10.03	41.2	386.3	437.4	341.2	294.9	0.88
2	1	30.00	Leg	PIPE 8.625x0.375	10.03	41.2	386.3	437.4	354.3	304.8	0.92
1	2	15.00	Leg	PIPE 8.625x0.375	15.04	30.9	407.8	437.4	361.2	308.5	0.89
1	1	0.00	Leg	PIPE 8.625x0.375	15.04	30.9	407.8	437.4	379.4	322.1	0.93
10	4	225.00	Diag	L1 3/4x1 3/4x3/16	6.90	109.5	9.7	9.7	1.2	1.3	0.13
10	3	220.00	Diag	L1 3/4x1 3/4x3/16	6.91	109.6	9.7	9.7	4.4	4.2	0.45
10	2	215.00	Diag	L1 3/4x1 3/4x3/16	6.92	109.7	9.7	9.7	4.4	4.5	0.47
10	1	210.00	Diag	L1 3/4x1 3/4x3/16	6.92	109.9	9.7	9.7	5.7	5.5	0.59
9	4	205.00	Diag	L1 3/4x1 3/4x3/16	7.11	115.2	10.6	10.7	5.6	5.2	0.53
9	3	200.00	Diag	L1 3/4x1 3/4x3/16	7.49	120.8	9.6	10.7	5.7	5.8	0.59
9	2	195.00	Diag	L1 3/4x1 3/4x3/16	7.88	128.1	8.5	10.7	5.4	5.3	0.63
9	1	190.00	Diag	L1 3/4x1 3/4x3/16	8.29	135.7	7.6	10.7	6.5	6.5	0.86
8	3	183.33	Diag	L2 1/2x2 1/2x3/16	9.82	113.6	15.2	14.1	7.5	7.5	0.53
8	2	176.67	Diag	L2 1/2x2 1/2x3/16	10.34	118.7	14.4	14.1	8.7	8.6	0.61
8	1	170.00	Diag	L2 1/2x2 1/2x3/16	10.88	125.2	13.0	14.1	8.2	8.2	0.63
7	3	163.33	Diag	L2 1/2x2 1/2x3/16	11.43	130.5	11.9	14.1	8.1	8.0	0.68
7	2	156.67	Diag	L2 1/2x2 1/2x3/16	11.97	137.5	10.8	14.1	7.9	7.9	0.73
7	1	150.00	Diag	L2 1/2x2 1/2x3/16	12.53	144.5	9.7	14.1	7.8	7.7	0.80
6	3	143.33	Diag	L2 1/2x2 1/2x1/4	13.11	152.0	11.6	15.2	7.5	7.5	0.64
6	2	136.67	Diag	L2 1/2x2 1/2x1/4	13.71	159.5	10.6	15.2	7.5	7.5	0.71
6	1	130.00	Diag	L2 1/2x2 1/2x1/4	14.32	167.1	9.6	15.2	7.5	7.5	0.78
5	3	123.33	Diag	L3x3x3/16	14.93	143.6	11.9	14.7	7.8	7.8	0.66
5	2	116.67	Diag	L3x3x3/16	15.53	149.8	11.0	14.7	7.9	7.9	0.72
5	1	110.00	Diag	L3x3x3/16	16.13	156.1	10.1	14.7	8.0	8.0	0.80
4	3	103.33	Diag	L3x3x1/4	16.76	162.8	12.3	15.2	7.7	7.6	0.63
4	2	96.67	Diag	L3x3x1/4	17.42	169.6	11.3	15.2	7.8	7.8	0.69
4	1	90.00	Diag	L3x3x1/4	18.08	176.4	10.5	15.2	8.0	7.9	0.76



TS Tower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



ROHN
 Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section M: SECTION PROPERTIES DATA

Sec	Pan	Memb. Type	Steel Grade	Conn. Type	Bolts	Bolt Size (in)	Bolt Grade	End Dist. (in)	Gusset Thick. (in)	kl/r	Comp Cap. (Kips)	Tens Cap. (Kips)	Bolt Cap. (Kips)	Bear. Cap. (Kips)	Block Shear (Kips)	
10	4	Leg	A500	gr.CS	Tension	4	0.750	A325X	1.875	N/A	63.4	57.1	76.5	121.7T	N/A	N/A
10	4	Diag	A529	gr.50	Bolted	1	0.500	A325X	1.250	0.250	109.5	11.6	18.3	9.7S	11.7	10.2
10	4	Horiz	A529	gr.50	Bolted	1	0.500	A325X	1.250	0.250	172.6	4.0	15.0	9.7S	11.7	9.1
10	3	Leg	A500	gr.CS	Tension	4	0.750	A325X	1.875	N/A	63.4	57.1	76.5	121.7T	N/A	N/A
10	3	Diag	A529	gr.50	Bolted	1	0.500	A325X	1.250	0.250	109.6	11.6	18.3	9.7S	11.7	10.2
10	2	Leg	A500	gr.CS	Tension	4	0.750	A325X	1.875	N/A	63.4	57.1	76.5	121.7T	N/A	N/A
10	2	Diag	A529	gr.50	Bolted	1	0.500	A325X	1.250	0.250	109.7	11.6	18.3	9.7S	11.7	10.2
10	1	Leg	A500	gr.CS	Tension	4	0.750	A325X	1.875	N/A	63.4	57.1	76.5	121.7T	N/A	N/A
10	1	Diag	A529	gr.50	Bolted	1	0.500	A325X	1.250	0.250	109.9	11.5	18.3	9.7S	11.7	10.2
9	4	Leg	A500	gr.CS	Tension	5	0.875	A325X	2.188	N/A	51.8	82.5	100.4	209.9T	N/A	N/A
9	4	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	115.2	10.6	17.4	15.2S	14.7	10.7
9	4	Horiz	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	145.5	6.6	17.4	15.2S	14.7	10.7
9	3	Leg	A500	gr.CS	Tension	5	0.875	A325X	2.188	N/A	51.8	82.5	100.4	209.9T	N/A	N/A
9	3	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	120.8	9.6	17.4	15.2S	14.7	10.7
9	2	Leg	A500	gr.CS	Tension	5	0.875	A325X	2.188	N/A	51.8	82.5	100.4	209.9T	N/A	N/A
9	2	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	128.1	8.5	17.4	15.2S	14.7	10.7
9	1	Leg	A500	gr.CS	Tension	5	0.875	A325X	2.188	N/A	51.8	82.5	100.4	209.9T	N/A	N/A
9	1	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	135.7	7.6	17.4	15.2S	14.7	10.7
8	3	Leg	A500	gr.CS	Tension	5	1.000	A325X	1.500	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
8	3	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	113.6	15.8	27.7	15.2S	14.7	14.1
8	2	Leg	A500	gr.CS	Tension	5	1.000	A325X	1.500	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
8	2	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	118.7	14.4	27.7	15.2S	14.7	14.1
8	1	Leg	A500	gr.CS	Tension	5	1.000	A325X	1.500	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
8	1	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	125.2	13.0	27.7	15.2S	14.7	14.1
7	3	Leg	A500	gr.CS	Tension	5	1.000	A325X	1.500	N/A	43.6	239.4	275.0	275.3T	N/A	N/A
7	3	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	130.5	11.9	27.7	15.2S	14.7	14.1
7	2	Leg	A500	gr.CS	Tension	5	1.000	A325X	1.500	N/A	43.6	239.4	275.0	275.3T	N/A	N/A
7	2	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	137.5	10.8	27.7	15.2S	14.7	14.1
7	1	Leg	A500	gr.CS	Tension	5	1.000	A325X	1.500	N/A	43.6	239.4	275.0	275.3T	N/A	N/A
7	1	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	144.5	9.7	27.7	15.2S	14.7	14.1
6	3	Leg	A500	gr.CS	Tension	6	1.000	A325X	1.500	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
6	3	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	152.0	11.6	36.5	15.2S	19.5	18.7
6	2	Leg	A500	gr.CS	Tension	6	1.000	A325X	1.500	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
6	2	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	159.5	10.6	36.5	15.2S	19.5	18.7
6	1	Leg	A500	gr.CS	Tension	6	1.000	A325X	1.500	N/A	43.6	239.3	275.0	330.3T	N/A	N/A
6	1	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	167.1	9.6	36.5	15.2S	19.5	18.7
5	3	Leg	A500	gr.CS	Tension	6	1.000	A325X	1.250	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
5	3	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	143.6	11.9	34.6	15.2S	14.7	16.4
5	2	Leg	A500	gr.CS	Tension	6	1.000	A325X	1.250	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
5	2	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	149.8	11.0	34.6	15.2S	14.7	16.4
5	1	Leg	A500	gr.CS	Tension	6	1.000	A325X	1.250	N/A	36.0	274.8	302.1	330.3T	N/A	N/A
5	1	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	156.1	10.1	34.6	15.2S	14.7	16.4
4	3	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	36.4	343.5	378.5	765.3T	N/A	N/A
4	3	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	162.8	12.3	45.6	15.2S	19.5	21.8
4	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	36.4	343.5	378.5	765.3T	N/A	N/A
4	2	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	169.6	11.3	45.6	15.2S	19.5	21.8
4	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	36.4	343.5	378.5	765.3T	N/A	N/A
4	1	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	176.4	10.5	45.6	15.2S	19.5	21.8
3	3	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.2	386.3	437.4	765.3T	N/A	N/A
3	3	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.250	158.8	15.1	54.8	30.4S	34.1	31.1
3	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.2	386.3	437.4	765.3T	N/A	N/A



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

3	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.250	166.7	13.7	54.8	30.4S	34.1	31.1
3	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.2	386.3	437.4	765.3T	N/A	N/A
3	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.250	174.7	12.5	54.8	30.4S	34.1	31.1
2	3	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.2	386.3	437.4	765.3T	N/A	N/A
2	3	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.250	161.5	16.8	63.9	30.4S	34.1	34.1
2	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.2	386.3	437.4	765.3T	N/A	N/A
2	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.250	168.5	15.4	63.9	30.4S	34.1	34.1
2	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.2	386.3	437.4	765.3T	N/A	N/A
2	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.250	175.6	14.2	63.9	30.4S	34.1	34.1
1	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	30.9	407.8	437.4	765.3T	N/A	N/A
1	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	178.6	13.7	63.9	30.4S	34.1	34.2
1	2	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	174.3	12.6	54.8	30.4S	34.1	35.7
1	2	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	128.0	15.0	34.6	15.2S	14.7	17.6
1	2	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	192.8	6.6	34.6	15.2S	14.7	17.6
1	2	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	308.1	2.1	27.7	15.2S	14.7	14.1
1	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	30.9	407.8	437.4	765.3T	N/A	N/A
1	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	185.3	12.8	63.9	30.4S	34.1	34.2
1	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.125	0.375	185.0	11.1	54.8	30.4S	34.1	35.7
1	1	SecH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	138.1	12.9	34.6	15.2S	14.7	17.6
1	1	SecD1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	199.2	6.2	34.6	15.2S	14.7	17.6
1	1	PlanH1	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	332.6	1.8	27.7	15.2S	14.7	14.1



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section N: LEG REACTION DATA

Load Combination	Max Envelope				
Wind Direction	Maximum				
	Force-Y Download (Kips)	Force-Y Uplift (Kips)	Shear-X (Kips)	Shear-Z (Kips)	Max Shear (Kips)
	395.23	335.11			43.13



TSTower - v 5.8.3 Tower Analysis Program
 (c) 1997-2019 TowerSoft www.TSTower.com



Products:
 Licensed to: ROHN Products LLC
 Peoria, IL

File: W:\Jobs\2019\229719\229719.out
 Contract: 229719
 Project: 230' RT TOWER
 Date and Time: 4/5/2019 9:57:00 AM

Revision: 0
 Site: HV1363 PLEASANT VIEW- KY
 Engineer: RCS

Section O: TOWER FOUNDATION DATA

Load Combination		Max Envelope					
Wind Direction		Maximum					
Axial Load (Kips)	Shear Load-X (Kips)	Shear Load-Z (Kips)	Total Shear (Kips)	Moment-X (Kipsft)	Moment-Y (Kipsft)	Moment-Z (Kipsft)	Total Moment (Kipsft)
57.26	34.72	-59.84	69.19	-8074.50	9.73	-4696.51	9341.02
57.26	34.72	-59.84	69.19	-8074.50	9.73	-4696.51	9341.02

Customer: HORVATH COMMUNICATIONS
 Project: 230' RT TOWER
 Site: HV1363 PLEASANT VIEW- KY
 Engr. File: 229719
 Build Code: ANSI/TIA-222-G-2005



Mat Foundation

ver.2.2.14

Design Parameters

Description	Load Case					
	1	2	3	4	5	Service
Total Moment, ft-kips	9,339.73	9,341.02	1,370.56	497.64	495.56	3,221.21
Total Shear, kips	69.18	69.19	9.24	2.85	2.85	23.49
Total Tower Wt, kips	76.34	57.26	211.47	73.25	54.94	64.11
Max. Uplift, kips	328.80	335.11	.00	.00	1.21	101.08
Shear, kips	37.57	38.04	38.04	11.94	.39	11.94
Max Download, kips	395.23	388.93	124.75	44.12	37.93	148.91
Shear	43.13	42.66	10.89	3.69	3.21	15.74
Soil L.F.	1.20	0.90	1.20	1.20	0.90	1.00
Concrete L.F.	1.20	0.90	1.20	1.20	0.90	1.00

Foundation		Mat		Pier	
Ht. AGL, ft	0.50	Thickness, ft	2.00	Height, ft	4.50
Depth, ft.	6.00	Width, ft	36.00	Diameter, ft	4.00
Tower		EA, in	12.00	No. Piers	3
Face Width, ft	29.16	Batter, in/ft	0.00	Shape	Round
Offset, in	54.00	Anchor Bolts		Pocket	
Soil		Diameter, in	1.5000	Diameter, in	N/A
Blow Count	N/A	No.	6	Thickness, ft	N/A
Inplace Unit Wt, pcf	110.00	Length, in	74.00	Rebar Fy	
Submerged Unit Wt, pcf	60.00	Bolt Circle, in	20.00	Vertical, ksi	60.00
Friction Angle, ϕ , deg.	30.00	Projection, in	7.50	Circular, ksi	60.00
Cohesion, ksf	N/A	Concrete		Horizontal, ksi	60.00
Uplift Angle, deg.	30.00	28 Day Strength, ksi	4.50		
Water Depth, ft	None	Dry Unit Wt, pcf	150.00		
Ult Bearing Capacity, ksf	12.00	Wet Unit Wt, pcf	88.00		

ALLOWABLE BEARING PRESSURE = 6,000 psf.

Results

ϕM_N - Parallel Axis 15,754.19 ft-kips
 ϕM_N - Diagonal Axis 17,348.45 ft-kips
 Moment - Interaction Ratio 0.640
 ϕV_N - Lateral Load 243.70 kips
 Lateral Load - Interaction Ratio 0.284

Final Mat Dimension : 36.00 x 36.00 x 2.00 ft. thick w/ (3) 4.00 ft. Dia. Piers

Final Pocket Dimension : Pockets not required

Total Volume of Concrete : 102.3 yd³

Designed By: RCS
 Date: 05 Apr.19 @ 10:17 AM

Checked By: HA
 Date: 4/5/19

Customer: HORVATH COMMUNICATIONS
 Project: 230' RT TOWER
 Site: HV1363 PLEASANT VIEW- KY
 Engr. File: 229719
 Build Code: ANSI/TIA-222-G-2005



Mat Foundation

ver.2.2.14

OTM Capacity

Controlling Load Case: 2 [Wind w/Min. Dead Load]
 Foundation Width = 36.00 ft
 $M_U = 10,088.3$ ft-kips

	ϕM_N , ft-kips	x, ft	N	σ_{ur}
Parallel	15,754.2	3.600	0.100	9.84
Diagonal	17,348.5	11.384	0.224	9.84

$\phi M_N = 15,754.19$ ft-kips IRatio = 0.640 ✓
 $\phi V_N = 243.70$ kips IRatio = 0.284 ✓

Mat Design

$\gamma_e = 123.33$ pcf

Exterior Slab	x, ft	N	σ_R , ksf	P_s , kips	P_{su} , kips	Moment, ft-kips/ft		Shear, kips/ft	
						DownLoad Side	Uplift Side	DownLoad Side	Uplift Side
Parallel	14.918	0.414	1.76	28.36	0.00	7.37	8.76	4.02	4.02
Diagonal	22.373	0.439	1.89	28.36	0.00	53.74	44.89	11.82	9.28

Interior Slab	Moment, ft-kips/ft			Shear, kips/ft		
	DownLoad Side	Uplift Side		DownLoad Side	Uplift Side	Soil Pressure Termination
	40.65	38.25		6.49	5.63	6.07

Punching Shear	DownLoad			Uplift			Description
	Interior	Edge	Corner	Interior	Edge	Corner	
b_o , ft	20.51	17.10	13.63	17.85	15.77	12.97	2-Way Shear
V_{su} , psi	96.17	122.83	162.80	91.41	109.87	142.62	
ϕV_c , psi	228.08	228.08	228.08	228.08	228.08	228.08	
IR	0.42	0.54	0.71 ✓	0.40	0.48	0.63 ✓	
M_{ub} , ft-kips	116.5			102.7			Moment transfer to slab
B_e , ft	8.4			8.0			
M_u , ft-kips/ft	13.8			12.8			
Edge Distances: a = 5.66 ft. b = 3.42 ft. c = 5.08 ft.							

Summary	Max. Value	Utilization
Slab Moment, ft-kips/ft	53.74	0.842 ✓
Slab Shear, kips/ft	11.82	0.455
Punching Shear, psi	162.80	0.714
Soil Bearing Required, σ_{UR} , ksf	2.52	0.210

Mat Reinforcement	
Min. Steel Area (Strength)	.528 in ² /ft. ✓
Min. Steel Area (Temperature)	.259 in ² /ft.
Steel Strain Actual	0.025
Minimum Steel Strain Required	0.005

38 - #7 Horizontal bars equally spaced @11.51 in., each way, top and bottom, total of 152, $A_s = 0.635$ in²/ft ✓

Designed By: RCS
 Date: 05 Apr,19 @ 10:17 AM

Checked By: HA
 Date: 4/5/19

Customer: HORVATH COMMUNICATIONS
Project: 230' RT TOWER
Site: HV 1363 PLEASANT VIEW- KY
Engr. File: 229719
Build Code: ANSI/TIA-222-G-2005



Mat Foundation

ver.2.2.14

Pier Design

Controlling Load Case: 2 [Wind w/Min. Dead Load]

C = 388.93 kips	Vc = 42.66 kips	Mc = 191.97 ft-kips
T = 335.11 kips	Vt = 38.04 kips	Mt = 171.18 ft-kips
Fy = 60.00 ksi	Fyt = 60.00 ksi	L.F. = 1.00
H = 48.00 in.	Ds = 39.00 in.	F'c = 4.50 ksi
U = 1.00	Irs = Round	

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

SUMMARY OF ANALYSIS

Minimum area of steel required	= 11.000 in ²	(Rhom in = 0.0061)
Area of steel provided.	= 12.566 in ²	(Rhoactual = 0.0069)
Maximum steel area limit	= 144.765 in ²	(Rhomax = 0.0800)

(16) #8 Vertical Bars equally spaced w/ #4 Circular Ties @ 6" on center.

CIRCULAR TIE DATA

$V_u < 0.85 * V_c / 2$, shear reinforcement is not required

Use maximum tie spacing specified in ACI 318,
Section 7.10.5 for compression reinforcement.

DEVELOPMENT LENGTH MODIFIERS FOR BAR DEVELOPMENT

Modifier for tension development = 1.000

Modifier for compression development = 0.163

REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS, (12 in. min.)

Designed By: RCS
Date: 05 Apr, 19 @ 10:17 AM

Checked By: HA
Date: 4/5/19

Page iii



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

Aeronautical Study No.
 2019-ASO-1191-OE

Issued Date: 03/04/2019

Shauna Adair
 Horvath Towers V
 312 W Colfax Ave.
 South Bend, IN 46601

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

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

Structure: Antenna Tower HV1363 Pleasant View
 Location: Williamsburg, KY
 Latitude: 36-40-57.18N NAD 83
 Longitude: 84-07-37.74W
 Heights: 988 feet site elevation (SE)
 240 feet above ground level (AGL)
 1228 feet above mean sea level (AMSL)

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

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

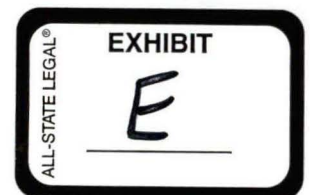
Any failure or malfunction that lasts more than thirty (30) minutes and affects a top light or flashing obstruction light, regardless of its position, should be reported immediately to (877) 487-6867 so a Notice to Airmen (NOTAM) can be issued. As soon as the normal operation is restored, notify the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

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

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

This determination expires on 09/04/2020 unless:

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



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

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ASO-1191-OE.

Signature Control No: 394834387-398674372
Angelique Eersteling
Technician

(DNE)

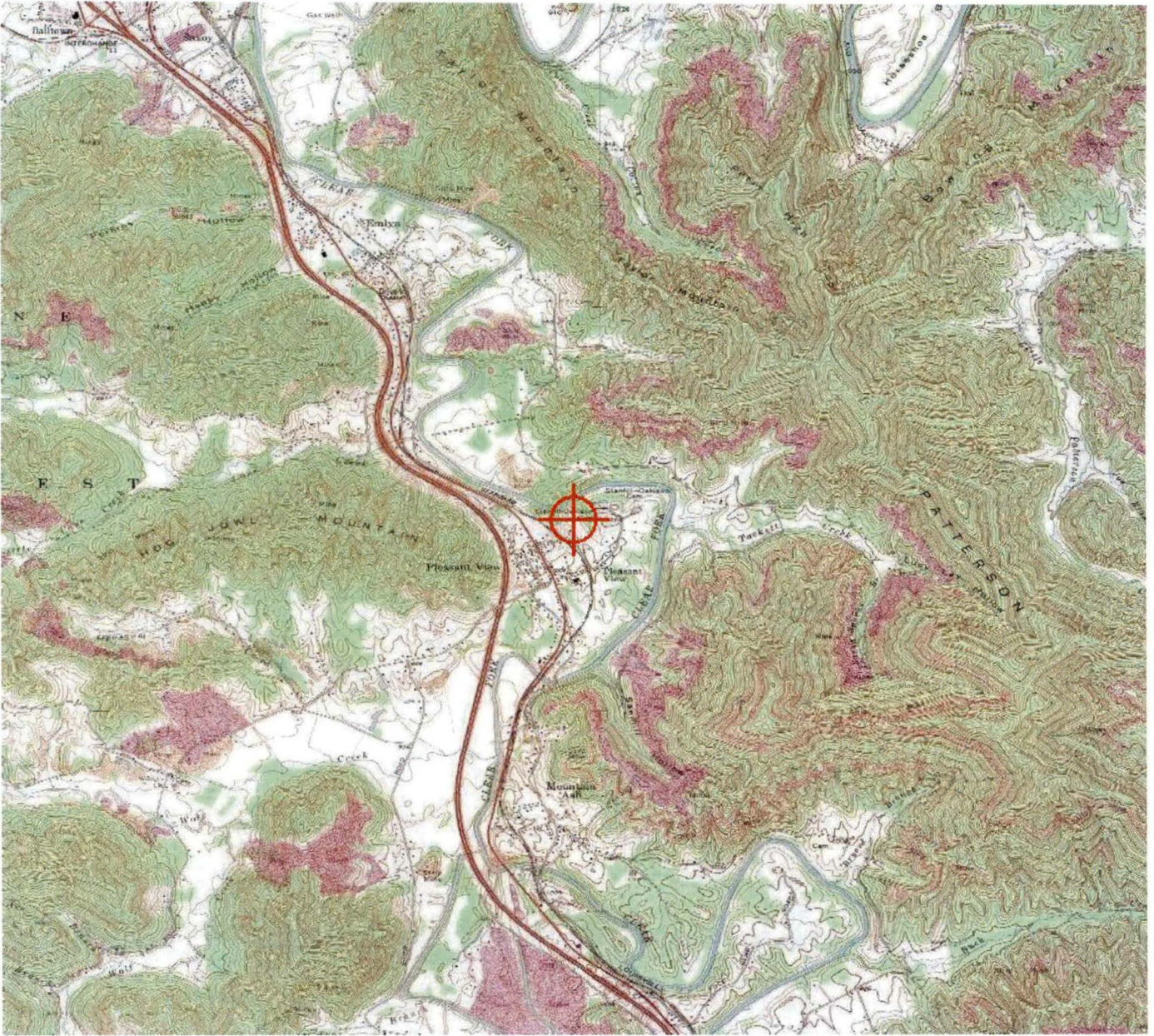
Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2019-ASO-1191-OE

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

TOPO Map for ASN 2019-ASO-1191-OE





March 7, 2019

Kentucky Airport Zoning Commission
421 Buttermilk Pike
Covington, KY 41017

RE: Application for Permit to Construct or Alter a Structure
HV1363 Pleasant View

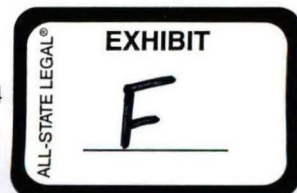
To Whom It May Concern:

Enclosed is the Application for Permit to Construct or Alter a Structure and all required documents. If you should have any questions, please contact Shauna Adair at 574.237.0464 or sadair@horvathcommunications.com.

Sincerely,

Shauna Adair

Shauna Adair
Regulatory & Compliance Manager





KENTUCKY TRANSPORTATION CABINET
KENTUCKY AIRPORT ZONING COMMISSION

TC 55-2
 Rev. 06/2016
 Page 2 of 2

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Horvath Towers V, LLC		PHONE 574.237.0464	FAX 574.217.4357	KY AERONAUTICAL STUDY # 2019-ASO-1191-OE
ADDRESS (street) 312 W Colfax Ave.		CITY South Bend		STATE IN
ZIP 46550				
APPLICANT'S REPRESENTATIVE (name) Shauna Adair		PHONE 574.237.0464	FAX 574.217.4357	
ADDRESS (street) 312 W Colfax Ave.		CITY South Bend		STATE IN
ZIP 46550				
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE
DURATION <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start End
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building		MARKING/PAINTING/LIGHTING PREFERRED		
<input checked="" type="checkbox"/> Antenna Tower		<input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity		
<input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank		<input checked="" type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white		
<input type="checkbox"/> Landfill <input type="checkbox"/> Other		<input type="checkbox"/> Other		
LATITUDE 36 ° 40 ' 57 . 18 " N		LONGITUDE 84 ° 7 ' 37 . 74 " W		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27
<input type="checkbox"/> Other				
NEAREST KENTUCKY City WilliamsburgCounty Whitley		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT Williamsburg-Whitley County Airport KBYL		
SITE ELEVATION (AMSL, feet) 988 ft.		TOTAL STRUCTURE HEIGHT (AGL, feet) 240 ft.		CURRENT (FAA aeronautical study #) 2019-ASO-1191-OE
OVERALL HEIGHT (site elevation plus total structure height, feet) 1228 ft.				PREVIOUS (FAA aeronautical study #)
DISTANCE (from nearest Kentucky public use or Military airport to structure) 12.3 miles				PREVIOUS (KY aeronautical study #)
DIRECTION (from nearest Kentucky public use or Military airport to structure) Southeast				
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) see attached map				
DESCRIPTION OF PROPOSAL Telecommunications structure for wireless and public safety entities				
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? 01/03/2019				
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)				
PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)				
NAME Shauna Adair	TITLE Regulatory & Compliance Manager	SIGNATURE <i>Shauna Adair</i>		DATE 3/7/2019
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC		
<input type="checkbox"/> Approved		<input type="checkbox"/> Administrator, KAZC		
<input type="checkbox"/> Disapproved				
SIGNATURE		DATE		



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

Aeronautical Study No.
 2019-ASO-1191-OE

Issued Date: 03/04/2019

Shauna Adair
 Horvath Towers V
 312 W Colfax Ave.
 South Bend, IN 46601

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

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

Structure: Antenna Tower HV1363 Pleasant View
 Location: Williamsburg, KY
 Latitude: 36-40-57.18N NAD 83
 Longitude: 84-07-37.74W
 Heights: 988 feet site elevation (SE)
 240 feet above ground level (AGL)
 1228 feet above mean sea level (AMSL)

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

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

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

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

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

This determination expires on 09/04/2020 unless:

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

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

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ASO-1191-OE.

Signature Control No: 394834387-398674372
Angelique Eersteling
Technician

(DNE)

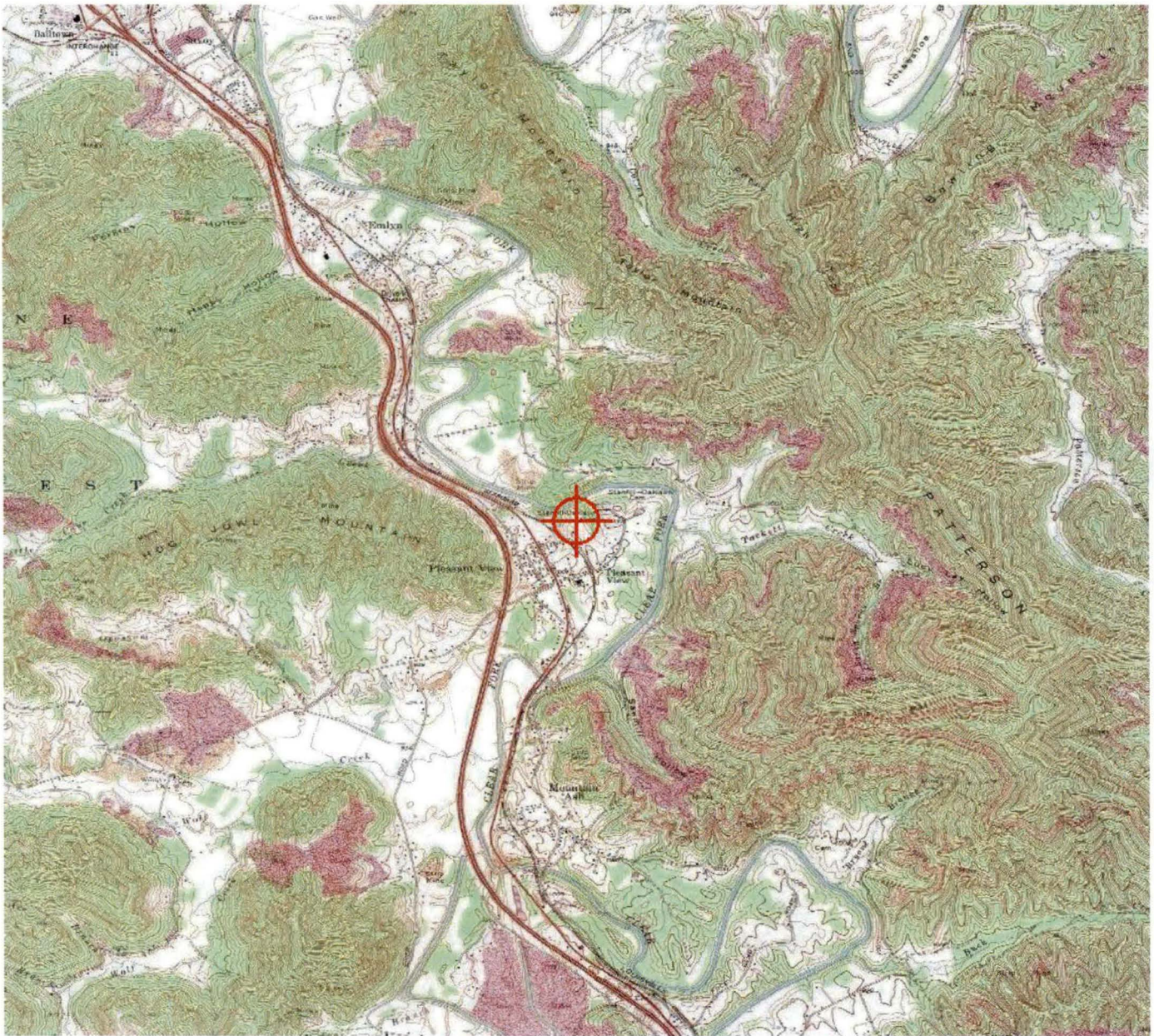
Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2019-ASO-1191-OE

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

TOPO Map for ASN 2019-ASO-1191-OE



Date: April 2, 2019

POD Job Number: 19-33857

GEOTECHNICAL REPORT

PLEASANT VIEW

(HV1363)

**36° 40' 57.18" N
84° 07' 37.74" W**

195 Train View Lane
Williamsburg, KY 40769

Prepared For:



Prepared By:





April 2, 2019

Ms. Shauna Adair
Horvath Communications
312 W Colfax Ave
South Bend, IN 46601

Re: Geotechnical Report – **PROPOSED 230' SELF-SUPPORT TOWER w/ 10' LIGHTNING ARRESTOR**
Site Name: **PLEASANT VIEW (HV1363)**
Site Address: 195 Train View Lane, Williamsburg, Whitley County, Kentucky
Coordinates: N36° 40' 57.18", W84° 07' 37.74"
POD Project No. 19-33857

Dear Ms. Adair:

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

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

Cordially,

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

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



Copies submitted: (3) Ms. Shauna Adair

LETTER OF TRANSMITTAL

TABLE OF CONTENTS

	<u>Page</u>
1. PURPOSE AND SCOPE.....	1
2. PROJECT CHARACTERISTICS	1
3. SUBSURFACE CONDITIONS	1
4. FOUNDATION DESIGN RECOMMENDATIONS	2
4.1. PROPOSED TOWER	2
4.1.1. Drilled Piers	3
4.1.2. Mat Foundation	3
4.2. EQUIPMENT PLATFORM.....	4
4.3. EQUIPMENT SLAB.....	4
4.4. EQUIPMENT BUILDING	4
4.5. DRAINAGE AND GROUNDWATER CONSIDERATIONS	5
5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS.....	5
5.1 DRILLED PIERS	5
5.2 FILL COMPACTION	6
5.3 CONSTRUCTION DEWATERING	6
6 FIELD INVESTIGATION	7
7 WARRANTY AND LIMITATIONS OF STUDY	7

APPENDIX

- BORING LOCATION PLAN
- BORING LOGS
- SOIL SAMPLE CLASSIFICATION

Geotechnical Report

PLEASANT VIEW
April 2, 2019

Geotechnical Report
PROPOSED 230' SELF-SUPPORT TOWER w/ 10' LIGHTNING ARRESTOR
Site Name: **PLEASANT VIEW (HV1363)**
195 Train View Lane, Williamsburg, Whitley County, Kentucky
N36° 40' 57.18", W84° 07' 37.74"

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

Horvath Communications is proposing to construct a self-support tower and either an equipment shelter, slab or platform at N36° 40' 57.18", W84° 07' 37.74", 195 Train View Lane, Williamsburg, Whitley County, Kentucky. The site is located in a farm field behind a residence and a railroad track on the east side of the town of Pleasant View. The proposed lease area will be 10,000 square feet and will be accessed by a new access road from East Church Road northeast to the site. The proposed elevation at the tower location is about EL 988 and there is about 20 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 boring is discussed in the following paragraphs.

According to the Kentucky Geological Survey, Kentucky Geologic Map Information Services, the site is underlain by the Middle Pennsylvanian age Pikeville Formation. The formation is made up of mixed clastics of siltstone, sandstone, shale coal and underclay and is non-karst. Underground mining is prevalent in this area. A passing review of the Kentucky Mine Mapping Information System did not indicate a mine under the proposed tower location. A full study was not done, and we are in no way confirming this information.

The borings encountered between 3 and 7 inches of topsoil over silty clay at the existing ground surface. Below the topsoil/soil, the borings encountered highly weathered sandstone to auger refusal depths between 2.1 and 5.0 feet.

Geotechnical Report

PLEASANT VIEW
April 2, 2019

Auger refusal is defined as the depth at which the boring can no longer be advanced using the current drilling method.

The refusal material was cored in Boring 1 from 5 to 20 feet below the ground surface. Sandstone that was soft, weathered and black and dark brown was encountered. The recovery of the rock core was 68 percent and the RQD value was 17 percent. These values generally represent poor quality rock from a foundation support viewpoint.

Observations made at the completion of soil drilling operations indicated the boring to be dry. 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 2013 Kentucky Building Code, the site class is considered "B". 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 - 6	6 - 20
Ultimate Bearing Pressure (psf)		16,600	27,650
c Undrained Shear Strength, psf	500	3,000	5,000
ϕ Angle of Internal Friction degrees	0	0	0
Total Unit Weight, pcf	110	135	135
Soil Modulus Parameter k , pci	30	1000	1000
Passive Soil Pressure, psf/one foot of depth		2,000 + 45(D-3)	3,350 + 45(D-6)
Side Friction, psf	100	1200	2000

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

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

4.1.2. Mat Foundation

The tower could be supported on a common mat foundation bearing on the highly weathered sandstone at least 4 feet in depth can be designed using a net allowable bearing pressure of 6,000 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 0.40 between the concrete and bedrock. 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.

The mat must be founded on either soil or bedrock but not both. Soil pockets can be removed and replaced with KY #57 feet if a foundation on rock is chosen.

4.2. Equipment Platform

An equipment platform may be supported on shallow piers bearing in the sandstone bedrock and designed for a net allowable soil pressure of 3,000 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 soil should be removed beneath footings and footings should only bear on rock.

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 110 lbs/cu.in. can be used for design of the slab. All existing topsoil or soft natural soil should be removed beneath crushed stone layer.

4.4. Equipment Building

If an equipment building support on a slab is chosen in place of the equipment platform, it may be supported on shallow spread footings bearing in the highly weathered sandstone and designed for a net allowable soil pressure of 3,000 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 soil should be removed beneath footings which should only bear on rock.

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 110 lbs/cu.in. can be used for design of the floor slabs.

4.5. Drainage and Groundwater Considerations

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

At the time of this investigation, groundwater was not encountered. Therefore, no special provisions regarding groundwater control are considered necessary for shallow foundations. Any seepage should be able to be pumped with sumps.

5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS

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

5.1 Drilled Piers

The following recommendations are recommended for drilled pier construction:

- ❖ Clean the foundation bearing area so it is nearly level or suitably benched and is free of ponded water or loose material.
- ❖ Make provisions for ground water removal from the drilled shaft excavation. While groundwater was not encountered during the soil drilling, 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 not encountered. Therefore, no special provisions regarding groundwater control are considered necessary for shallow foundations. 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 boring 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 encountered auger refusal from about 3.3 to 4.3 feet. A rock core of the refusal material was taken in Boring 1 from 4.3 to 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.

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

7 WARRANTY AND LIMITATIONS OF STUDY

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

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

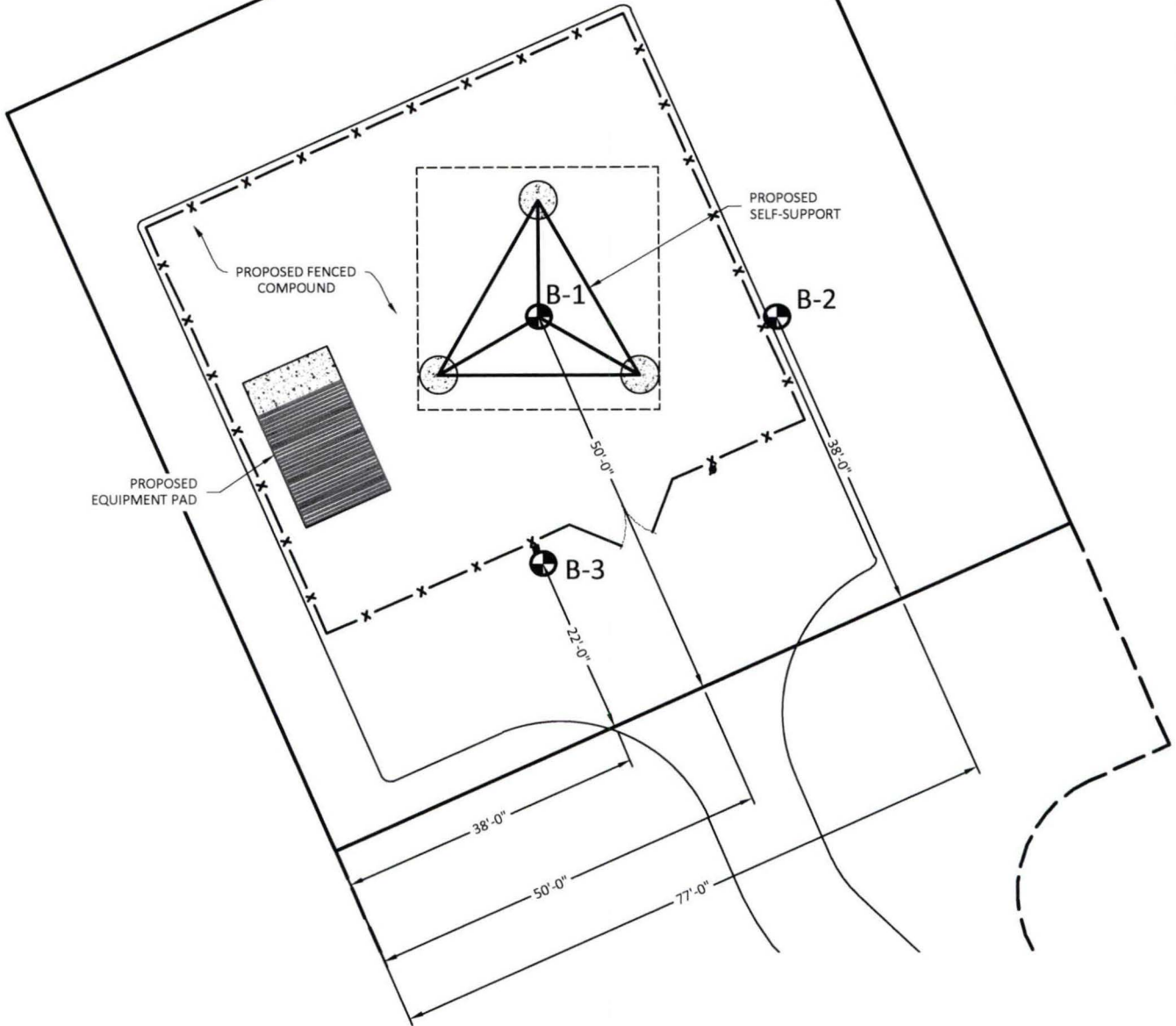
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions and to check that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

APPENDIX

BORING LOCATION PLAN

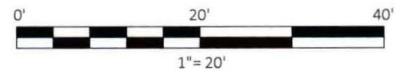
BORING LOGS

SOIL SAMPLE CLASSIFICATION



LEGEND

B-1 BORING LOCATION



SHEET TITLE: BORING LOCATION PLAN	VERIZON SITE NAME: LV PLEASANT VIEW		SITE INFORMATION: HV1363 PLEASANT VIEW 195 Train View Lane WILLIAMSBURG, KY 40769 WHITLEY COUNTY	 11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 502-437-5252
	LATITUDE: 36° 40' 57.18" N LONGITUDE: 84° 07' 37.74" W			
	PARCEL ID: 131-40-14-002.00			
SHEET NUMBER: 1	POD NUMBER: 19-33857 DRAWN BY: POD CHECKED BY: MEP DATE: 3.25.19	OWNER INFORMATION: GEORGE B & CAROLYN BOWMAN 140 EAST CHURCH STREET WILLIAMSBURG, KY 40769		 312 WEST COLFAX AVE SOUTH BEND, IN 46601



Boring Log

Boring: B-1

Page 1 of 1

Project: Pleasant View **City, State:** Williamsburg, KY

Method: H.S.A. **Boring Date:** 22-Mar-19 **Location:** Proposed Tower

Inside Diameter: 3 1/4" **Drill Rig Type:** D - 50 **Hammer Type:** Auto

Groundwater: DRY **Weather:**

Driller: CSI Drilling, LLC **Note:** About 7 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)
0.6	5.0	SILTY CLAY (CL) - soft, orange brown with trace sandstone - highly weathered sandstone	0-1.5	SS	2, 2, 2	10	4			23%		3.6
			1.5-3	SS	50,	4	50,			24%		4.0
	4.0		4-5.5	SS	50,	2	50,			18%		
5.0	15.0	SANDSTONE - soft, weathered, orange brown with clay seams, fine grained - moderately hard seams	5 - 15	RC		124		17%				
		Boring Terminated at 20 feet										

SOIL SAMPLE CLASSIFICATION

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

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

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

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

SYMBOLS

KEY TO MATERIAL TYPES			SOIL PROPERTY SYMBOLS	
SOILS			ROCKS	
Group Symbols	Typical Names		Symbols	Typical Names
GW	Well graded gravel - sand mixture, little or no fines			Limestone or Dolomite
GP	Poorly graded gravels or gravel - sand mixture, little or no fines			Shale
GM	Silty gravels, gravel - sand silt mixtures			Sandstone
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			

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	
	Split Spoon Sample
	Relatively Undisturbed Sample
	Rock Core Sample

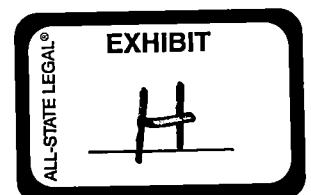
DIRECTIONS TO CELL TOWER SITE

Directions prepared by:

Jacob C. Walbourn
McBrayer PLLC
201 East Main Street, Suite 900
Lexington, Kentucky 40507
(859) 231-8780

From the Whitley County Courthouse (200 Main Street, Williamsburg, Kentucky 40769):

1. Travel southwest on Main Street for 135 feet
2. Turn left on South Third Street and travel 282 feet
3. Turn left on Cumberland Avenue and travel 0.2 miles
4. Turn right onto US-25 South/Cumberland Falls Highway and travel 5.3 miles
5. Turn left on East Church Street and travel 0.2 miles
6. The site is on the left just beyond the train tracks.



305/429

GENERAL WARRANTY DEED

TAX \$67.00

429

THIS DEED OF CONVEYANCE made and entered into this 9th day of September, 1997, by and between

WILLIAM MELVIN CRIDER and his wife, TAMMY LYNN CRIDER, with an address of 140 East Church Street, Williamsburg, Kentucky 40769, parties of the first part, (hereinafter called "Grantors"); and,

GEORGE B. BOWMAN and his wife, CAROLYN BOWMAN, with an address of 195 Shelby Hurst Lane, Williamsburg, Kentucky 40769, parties of the second part, (hereinafter called "Grantees");

WITNESSETH: That the Grantors, for and in consideration of the sum of SIXTY SEVEN THOUSAND DOLLARS (\$67,000.00), the receipt of which is hereby acknowledged, do hereby bargain, sell, grant and convey unto the Grantees, for and during their joint lives as tenants in common, with the remainder in fee simple to the survivor of them, their heirs and assigns forever, the following described real property located in Whitley County, Kentucky to wit:

Lying on the waters of the Clear Fork of the Cumberland River, on the east side and adjacent to the CSX Railroad, at Pleasant View, Whitley County, Kentucky and being the same land conveyed to William Melvin Crider and wife, Tammy Lynn Crider from Johnny Gibson, et al (sole heirs at-law of Fiara Booth) by deed dated 4-11-94, recorded in deed book 370, page 609 in the Whitley County Court Clerk's Office and more particularly described as follows:

FIRST TRACT:

BEGINNING on R. C. Davidson's corner thence down rather South with a conditional line to a corner of Davidson's conditional line to a corner of Davidson in line of R. Bird's grave lot; Thence East with R. Bird's grave lot to line 52 feet more or less to a stone corner; thence South with line of grave lot to a corner in the line of the L & N RR Co. right of way; thence Southeast course with L & N RR Co. right of way; Thence Southeast course with L & N RR Co. right of way to corner of S. Booth's of the branch; thence running in a north direction with meanders of said branch to the river, a conditional line Sam Booth's and Geo. Booth; thence down the river to the BEGINNING.

SECOND TRACT:

BEGINNING on a stone, a corner of T. C. Lay's and in a line of Starlin Stanfill and with his line N 20 W 177 feet to a stake, on river bank, thence down the river S 55 W 227 feet to a stake; thence S 64 W 377 feet to the mouth of a branch; thence up the branch S 30 E 175 feet, S 1 W 159 feet to a water birch, corner of S. Booth lot, and with the same 89 E 164 feet to a stake; S 66 E 220 feet to a stake; thence S 29 E 234 feet corner of Sherman-Castle; thence S 24 E 450 feet to a stone; thence 65 E 285 feet to the BEGINNING.

THIRD TRACT:

BEGINNING on a stone, the S. E. corner of the lot that said S. Booth now lives on and in the line of G. S. Castle's lot, and thence with same, N 56 E 152 feet to a stone in said Castle and Booth's corner; thence, leaving said Castle's lot N 31 1/2 W 217 feet to a stone; thence N 66 W 222 feet to a stone, a corner of the aforesaid S. Booth's lot; thence with same S 28 E 400 feet to the

SEP 16 '97 AM

Office of



430

BEGINNING.

FOURTH TRACT:

BEGINNING on east corner of Sherman Castle's lot; thence N 60 1/2 E 202 feet to a stake in S. Stanfill's line and with same N 30 W 259 feet to a stake; thence N 20 W 563 feet to a stone. S. Booth's corner, and with his line S 85 W 285 feet to a stone; thence S 25 E 450 feet to a corner of Sherman Castle's lot and with the same S 34 E 394 feet to the BEGINNING, containing 5 acres, more or less.

FIFTH TRACT:

BEGINNING at the N. E. corner of said lot and in a line of the L. & N RR right of way; thence with said RR right of way N 44 W 300 feet to a stake thence leaving said RR and running with D. H. Webb's lot, S 33 1/2 E 286 feet to Depot Street; thence with said street N 66 E 54 feet to the BEGINNING, containing 1/4 acre more or less.

SIXTH TRACT:

BEGINNING at a stone on Southwest of Highland drain, and agreed corner; thence N 89 W 154 feet to a water birch, in H. Booth line; thence with said H. Booth line S 158 feet to a stone; thence S 18 E 120 feet to L & N RR co. right of way where H. Booth's line intersects said railroad land; thence with said L & N RR right of way S.E. 191 feet to a stake, corner in said line; thence N 56 E 167 feet to a stone at the BEGINNING, said tract containing 2 acres, more or less.

ALSO CONVEYED HEREIN, a small tract, being a part of the land conveyed to William Melvin Crider and his wife, Tammy Lynn Crider from John Kevin Olson and his wife, Katherine Gaiser Olson by deed dated 5-23-98, record in deed book 386, page 413 in the Whitley County Court Clerk's Office and more particularly described as follows:

BEGINNING at a survey marker at a corner common to two separate tracts of land owned by William Melvin Crider and wife, Tammy Lynn Crider (d.b. 370, p. 609 and d.b. 386, pg. 413); thence with the common boundary of said tracts N 66° 24' 38" E, 353.82 feet to a survey marker; Thence severing the southern tract (d.b. 386, pg. 413) S 64° 38' 38" W, 312.34 feet to a survey marker near the base of a small holly tree; Thence still severing the said tract S 49° 32' 57" W, 39.22 feet to a railroad spike in the southern edge of the driveway, said point lies at the eastern right of way of the CSX Railroad; Thence with the said right of way - crossing the said driveway N 34° 37' 17" W, 21.40 feet to the POINT OF BEGINNING, containing 0.0487 acres.

TO HAVE AND TO HOLD all the above-described property, together with all the rights, privileges, appurtenances and improvements thereunto belonging unto the Grantees, in fee simple to the survivor of them, their heirs and assigns forever, with covenant of General Warranty of title.

IN TESTIMONY WHEREOF, the Grantors have hereunto set their hands on this date which is first above written.

William Melvin Crider
WILLIAM MELVIN CRIDER, GRANTOR

Tammy Lynn Crider
TAMMY LYNN CRIDER, GRANTOR

431

CONSIDERATION CERTIFICATE

We, the undersigned, being duly sworn, hereby certify that the consideration stated above is the true and correct consideration paid for the property conveyed herein.

GRANTORS:

GRANTEES:

William Melvin Crider
WILLIAM MELVIN CRIDER

G. B. Bowman
GEORGE B. BOWMAN

Tammy Lynn Crider
TAMMY LYNN CRIDER

Carolyn Bowman
CAROLYN BOWMAN

STATE OF KENTUCKY

COUNTY OF Whitley

The foregoing Deed and Consideration Certificate were acknowledged and sworn to before me this 9th day of September, 1997, by William Melvin Crider and Tammy Lynn Crider to be their own free act and deed and the free act and deed of each of them.

My commission will expire: 2/11/00.

Zeall Hedley
NOTARY PUBLIC

STATE OF KENTUCKY

COUNTY OF Whitley

The foregoing Deed and Consideration Certificate were acknowledged and sworn to before me this 9th day of September, 1997, by George B. Bowman and Carolyn Bowman to be their own free act and deed and the free act and deed of each of them.

My commission will expire: 2/11/00.

Zeall Hedley
NOTARY PUBLIC

432

THIS DOCUMENT PREPARED BY:

W. R. Tipton
ATTORNEY AT LAW
TIPTON & TIPTON
404 EAST CENTER STREET
P.O. DRAWER 1284
CORBIN, KENTUCKY 40702
TELEPHONE: (606) 528-1166

STATE OF KENTUCKY

COUNTY OF Whitley
I, Tom Rains

, clerk of the county court for the county and state aforesaid certify that the foregoing deed was on this 16th day of September, 1997, lodged for record whereupon same with the foregoing and this certificate has been duly recorded in my office.

Given under my hand this 16th day of September, 1997.

Tom Rains CLERK
Phyllis Holmes D.C.

Recorded in Deed Book 395, Page 429.

GRANT OF ACCESS/UTILITY EASEMENT

THIS GRANT OF ACCESS/UTILITY (“Easement”) is dated as of the 25th day of February, 2019 by Justin Hensley and his wife, Lisa Hensley, with a mailing address of 29 Train View Lane, Williamsburg, KY 40769 (“Grantors”) and Horvath Towers V, LLC, a Delaware limited liability company, having an address of 312 West Colfax Ave., South Bend, Indiana 46601 (“Grantee”).

WHEREAS, Grantors are the owners of certain real property in Whitley County, Kentucky, legally described in Exhibit “A”, attached hereto and incorporates herein by reference (the “Property”); and

WHEREAS, Grantee intends to build and maintain a telecommunications facility on the adjacent property owned by George B. Bowman and his wife, Carolyn Bowman pursuant to a that certain Option and Lease Agreement dated (the “Lease”); and

WHEREAS, pursuant to the Lease, Grantee is the owner of a leasehold interest in certain real property legally described in Exhibit “B”, attached hereto and incorporated herein by reference (the “Leased Premises”) and as shown on Exhibit “C”, attached hereto and incorporated herein by reference (the “Survey”); and

WHEREAS, Grantors have agreed to convey to Grantee an easement over, under and across the Property legally described in Exhibit “D”, attached hereto and incorporated herein by reference (the “Easement Area”).

WHEREAS, Grantee shall pay Grantors a one-time fee of Three Thousand Dollars (\$3,000.00) in exchange for the rights herein payable within twenty (20) days following the date Grantee commences construction of the access road. Grantee also agrees to pay an additional Five Hundred Dollars (\$500.00) to Grantors for attorney’s fees for Grantors’ attorney in revising the Easement herein and other legal work directly associated with this matter.

NOW THEREFORE, for and in consideration of the covenants contained herein, the parties agree as follows:

1. Grant of Access/Utility Easement. Grantors hereby grant to Grantee, its successors and assigns, a non-exclusive easement over, under and across

the Easement Area to allow Grantee entry at any time and from time to time for the purposes of ingress and egress and for constructing, maintaining, operating, repairing and replacing utility lines, cables and conduits to and from the Leased Premises.

- a. Each party shall utilize its estate in a manner which will minimize interference with the other party's use of its estate.
 - b. Upon completion of construction on the Leased Premises, Grantee shall restore the Easement Area to substantially its pre-existing condition. Thereafter Grantee shall maintain the Easement Area throughout the term of this Easement and the Lease.
2. No Permanent Structures. Grantors hereby covenant for and on behalf of themselves, their heirs, successors or assigns, that they will not, either alone or together, construct or permit to be constructed, any building or any other permanent structure within the Easement Area, or make any permanent excavation, or permit any permanent excavation to be made within the Easement Area which will prevent access to the Easement Area.
3. Term. The easement, with its associated rights and privileges herein granted, shall be for a term of ten (10) years with eight (8) additional five (5) year renewal terms, unless Grantee sooner terminates the Easement at its discretion by giving written notice to Grantors. In any event the Easement shall, without further action on the part of the Grantors or Grantee, terminate immediately upon the termination of the last renewal term of said Lease. Upon termination of this Easement for any reason, at Grantors' request, Grantee shall execute with acknowledgement and deliver a notice of termination in form suitable for recording in the official records of Whitley County, Kentucky.
4. Termination for Default. Upon Grantee's default hereunder, Grantors may deliver to Grantee a written notice of default, stating with specificity the type of Grantee's default. If Grantee has not cured the default within a reasonable time (but not less than 30 days for a monetary default and 60 days for a non-monetary default) after receipt of the notice of default, Grantors may terminate this Easement effective immediately upon receipt by Grantee of Grantors' written notice of termination. Notwithstanding the foregoing, in the event of default by Grantee, Grantors shall be entitled to all other remedies available in law or in equity.

5. Indemnification. Grantee agrees to indemnify, defend and hold Grantors harmless from and against any direct injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) resulting from its use of the Easement Area, except to the extent attributable to the negligent or intentional act or omission of Grantors or their agent. Grantors agree to indemnify, defend and hold Grantee harmless from and against any and all direct injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) arising from the actions or failure to act of Grantors or their agents, except to the extent attributable to the negligent or intentional act or omission of Grantee or its agent.
6. Insurance. Grantee will carry, at its own cost and expense, the following insurance: (i) commercial general liability insurance with a minimum limit of liability of \$1,000,000 combined single limit for bodily injury or death/property damage arising out of any one occurrence; and (ii) Workers' Compensation Insurance as required by law. Upon the request of Grantors, Grantee will provide Grantors a certificate of insurance showing such coverage.
7. Damage to Grantors' real estate. Grantee shall be responsible for any and all damage to the Grantors' real estate caused by Grantee and/or its agents, assigns or successors during Grantee's use, or the use of Grantee's agents, assigns or successors, of the property subject to the Easement herein. Grantee shall repair said damage at its own cost and shall do so within thirty (30) days of the date that the damage was caused.
8. Assignment. Grantee may, at its discretion, assign and delegate all or any portion of its rights and liabilities under this Easement in connection with any assignment of the Lease or sublease or license all or a portion of the Leased Premises, without Grantors' consent. Upon any such assignment, Grantee shall be released from its obligations hereunder.
9. Dominant and Servient Tenements. This Easement is granted for the benefit of the Leased Premises, and is appurtenant to the Leased

Premises. The Leased Premises are the dominant tenement and the Easement Area is the servient tenement.

10. Entire Agreement. This Easement constitutes the entire agreement between Grantors and Grantee relating to the foregoing easement. Any prior agreements, promises, negotiations or representations not expressly set forth in this Easement are of no force and effect.
11. Binding Effect. This Easement shall be binding on and shall inure to the benefit of the heirs, executors, administrators, successors and assigns of Grantors and Grantee.
12. Amendments. Any modification or other termination of this Easement shall become effective only upon the execution by Grantors and Grantee of a written instrument.
13. Recording. Grantors agree to execute a Memorandum of Easement, and any amended Memorandum of Easement reflecting any agreed to material modifications to this Easement, which Grantee may record in the appropriate office land records in Whitley County, Kentucky.
14. Venue. This Easement shall be governed by the laws of the state in which the property is located.
15. Removal of Debris. Grantee shall ensure that all debris caused by its construction activities is removed from the Grantors' property promptly after construction is completed.

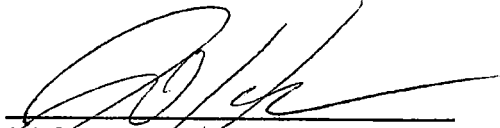
IN WITNESS WHEREOF, this Grant of Access/Utility Easement has been executed and delivered as of the day and year first above written.

[SIGNATURES ON FOLLOWING PAGE]

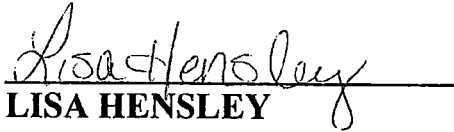
Site Name: HV1363 Pleasant View

GRANTORS:

Justin Hensley and his wife, Lisa Hensley



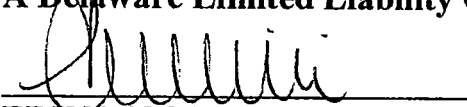
JUSTIN HENSLEY



LISA HENSLEY

GRANTEE:

**Horvath Towers V, LLC
A Delaware Limited Liability Company**



**ERIN MOSKWINSKI, its
VICE PRESIDENT**

Site Name: HV1363 Pleasant View

Exhibit "A"
The "Property"

PROPERTY ADDRESS: 242 East Church Street,
Williamsburg, Whitley County, Kentucky 40769.

BEGINNING on a stone in the lane running parallel with lane; thence a southeast direction by the edge of the spring 260 feet to a stone in the fence line; thence a easterly course 180 feet to a poplar corner; thence a northwesterly course 260 feet to a stone corner where the lane makes a turn; thence a southwest course 200 feet to a stone at the BEGINNING.

ALSO HEREIN CONVEYED is a permanent, non-exclusive easement for the purpose of ingress and egress to the back portion of the property, not to exceed ten (10) feet in width, along the current driveway.

Exhibit "B" The "Leased Premises"

PROPOSED LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00, 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 JANUARY 9, 2019.

COMMENCING AT A FOUND PIPE WITH A STEEL CAP STAMPED "RLS 1960" AT THE BASE OF A 10" HOLLY TREE, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,412,068.7174 & E:5,397,145.6512, BEING THE COMMON CORNER TO THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00 AND CORNER TO THE PROPERTY CONVEYED TO LAVINIA MIRACLE AS RECORDED IN DEED BOOK 440, PAGE 570; THENCE LEAVING SAID CORNER AND TRaversing THE LAND OF SAID BOWMAN, N14°09'36"E 414.86' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE SOUTHWEST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE N23°49'56"W 100.00' TO A SET IPC; THENCE N66°10'04"E 100.00' TO A SET IPC, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,412,200.5986 & E:5,397,196.7188; THENCE S23°49'56"E 100.00' TO A SET IPC; THENCE S66°10'04"W 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JANUARY 9, 2019.

PROPOSED 30' ACCESS & UTILITY EASEMENT "A"

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED 30' ACCESS & UTILITY EASEMENT "A" TO BE GRANTED FROM THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00, 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 JANUARY 9, 2019.

COMMENCING AT A FOUND PIPE WITH A STEEL CAP STAMPED "RLS 1960" AT THE BASE OF A 10" HOLLY TREE, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,412,068.7174 & E:5,397,145.6512, BEING THE COMMON CORNER TO THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00 AND CORNER TO THE PROPERTY CONVEYED TO LAVINIA MIRACLE AS RECORDED IN DEED BOOK 440, PAGE 570; THENCE LEAVING SAID CORNER AND TRaversing THE LAND OF SAID BOWMAN, N14°09'36"E 414.86' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE SOUTHWEST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE WITH SAID LEASE AREA, N66°10'04"E 100.00' TO A SET IPC; THENCE LEAVING SAID LEASE AREA, S23°49'56"E 30.00'; THENCE S66°10'04"W 10.91'; THENCE WITH THE CHORD OF A CURVE TO THE LEFT HAVING AN ARC LENGTH OF 29.62', A RADIUS OF 15.00', WITH A CHORD BEARING OF S09°35'53"W AND A CHORD LENGTH OF 25.04'; THENCE S46°58'19"E 299.06'; THENCE S33°03'46"E 257.95'; THENCE S21°16'19"E 56.61' TO THE COMMON LINE OF SAID BOWMAN AND THE LINE OF THE PROPERTY CONVEYED TO JUSTIN & LISA HENSLEY AS RECORDED IN DEED BOOK 515, PAGE 549, PARCEL ID: 131-40-14-005.00D1; THENCE WITH SAID COMMON LINE, S57°05'34"W 86.11' TO A FOUND STONE, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,411,532.8020 & E:5,397,542.6740, BEING IN THE LINE OF HENSLEY AND CORNER TO BOWMAN, ALSO CORNER TO THE PROPERTY CONVEYED TO TAMMY L. & DOYLE INMAN AS RECORDED IN DEED BOOK 484, PAGE 778, PARCEL ID: 131-40-14-003.01; THENCE LEAVING SAID CORNER AND TRaversing THE LAND OF SAID BOWMAN, WITH THE CHORD OF A NON-TANGENT CURVE TO THE LEFT HAVING AN ARC LENGTH OF 106.21', A RADIUS OF 67.50', WITH A CHORD BEARING OF N12°00'52"E AND A CHORD LENGTH OF 95.59'; THENCE N33°03'46"W 241.97'; THENCE N46°58'19"W 321.04'; THENCE WITH THE CHORD OF A CURVE TO THE LEFT HAVING AN ARC LENGTH OF 17.50', A RADIUS OF 15.00', WITH A CHORD BEARING OF N60°24'07"W AND A CHORD LENGTH OF 16.53'; THENCE S66°10'04"W 23.84'; THENCE N23°49'56"W 30.00' TO THE POINT OF BEGINNING CONTAINING 22,935.874 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JANUARY 9, 2019.

PROPOSED 30' ACCESS & UTILITY EASEMENT "B"

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED 30' ACCESS & UTILITY EASEMENT "B" TO BE GRANTED FROM THE PROPERTY CONVEYED TO JUSTIN & LISA HENSLEY AS RECORDED IN DEED BOOK 515, PAGE 549, PARCEL ID: 131-40-14-005.00D1, 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 JANUARY 9, 2019.

BEGINNING AT A FOUND STONE, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,411,532.8020 & E:5,397,542.6740, BEING IN THE LINE OF THE PROPERTY CONVEYED TO JUSTIN & LISA HENSLEY AS RECORDED IN DEED BOOK 515, PAGE 549, PARCEL ID: 131-40-14-005.00D1 AND BEING THE COMMON CORNER TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00 AND CORNER TO THE PROPERTY CONVEYED TO TAMMY L. & DOYLE INMAN AS RECORDED IN DEED BOOK 484, PAGE 778, PARCEL ID: 131-40-14-003.01; THENCE WITH THE COMMON LINE OF SAID BOWMAN AND HENSLEY, N57°05'34"E 86.11'; THENCE LEAVING SAID COMMON LINE AND TRaversing THE LAND OF SAID HENSLEY, S26°01'26"W 58.13'; THENCE S57°05'34"W 50.00' TO THE COMMON LINE OF SAID HENSLEY AND THE LINE OF THE PROPERTY CONVEYED TO JUSTIN & LISA HENSLEY AS RECORDED IN DEED BOOK 504, PAGE 760, PARCEL ID: 131-40-14-004.00; THENCE WITH THE COMMON LINE OF SAID HENSLEY, N39°07'36"W 8.88' TO THE EAST LINE OF THE RIGHT OF WAY OF TRAIN VIEW LANE; THENCE WITH THE LINE OF SAID RIGHT OF WAY, N30°52'04"W 21.19' TO THE COMMON CORNER OF SAID RIGHT OF WAY AND CORNER TO SAID INMAN AND HENSLEY, PARCEL ID: 131-40-14-005.00D1; THENCE WITH SAID HENSLEY AND INMAN, N57°05'34"E 13.89' TO THE POINT OF BEGINNING CONTAINING 2,263.509 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JANUARY 9, 2019.

PROPOSED 15' UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED 15' UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00, 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 JANUARY 9, 2019.

COMMENCING AT A FOUND PIPE WITH A STEEL CAP STAMPED "RLS 1960" AT THE BASE OF A 10" HOLLY TREE, WITH A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N:3,412,068.7174 & E:5,397,145.6512, BEING THE COMMON CORNER TO THE PROPERTY CONVEYED TO GEORGE B. & CAROLYN BOWMAN AS RECORDED IN DEED BOOK 395, PAGE 429, PARCEL ID: 131-40-14-002.00 AND CORNER TO THE PROPERTY CONVEYED TO LAVINIA MIRACLE AS RECORDED IN DEED BOOK 440, PAGE 570; THENCE LEAVING SAID CORNER AND TRaversing THE LAND OF SAID BOWMAN, N14°09'36"E 414.86' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", IN THE SOUTHWEST CORNER OF THE PROPOSED LEASE AREA; THENCE LEAVING SAID LEASE AREA, S23°49'56"E 30.00' TO THE TRUE POINT OF BEGINNING; THENCE N66°10'04"E 17.24'; THENCE S05°42'18"W 215.25'; THENCE N84°17'42"W 15.00'; THENCE N05°42'18"E 206.75' TO THE POINT OF BEGINNING CONTAINING 3,165.007 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JANUARY 9, 2019.

Exhibit "C" The "Survey"

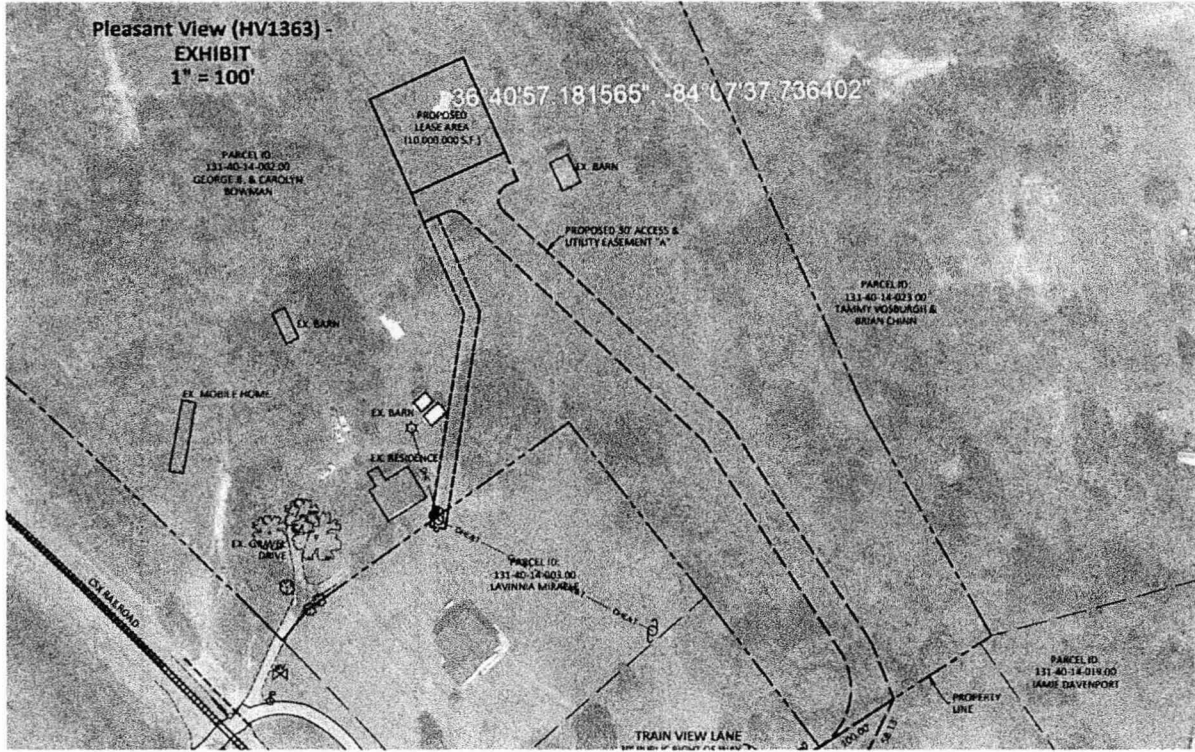
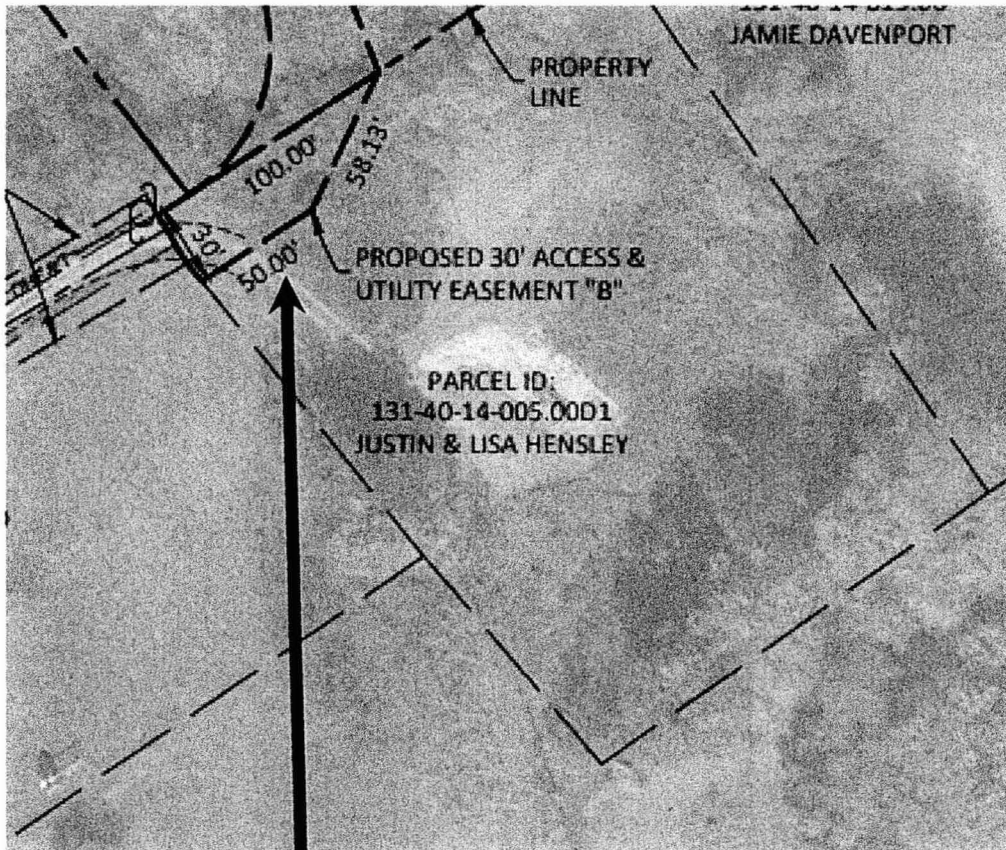


Exhibit "D"
The "Easement Area"
Parcel #131-40-14-005.00D1



Easement Area consists of an irregular four-sided area with sides measuring 30', 50', 58.13' and 100'.

OPTION AND LEASE AGREEMENT

This Option and Lease Agreement ("Agreement" or "Lease") is made and entered into this 25th day of February, 2019 by and between George B. Bowman and his wife, Carolyn Bowman, having a mailing address of 140 Church Street, Williamsburg, Kentucky 40769 ("Landlord"), and HORVATH TOWERS V, LLC, a Delaware limited liability company, having an address of 312 W. Colfax Ave., South Bend, Indiana 46601 ("Tenant").

I OPTION TO LEASE

(a) Landlord owns certain real property described on **Exhibit A** attached hereto and made a part herof (the "Property"). In consideration of the sum of _____ (the "Commitment Deposit"), to be paid by Tenant to Landlord upon full execution of this Agreement, Landlord grants to Tenant for a term of thirty-six (36) months (the "**Option Term**") an option to lease (the "**Option**") a portion of the Property measuring approximately 100' x 100' for a total of 10,000 square feet and located at ±140 E Church Street, Williamsburg, Kentucky 40769 (36.68255 LAT/ -84.12715 LONG) for the purpose of constructing and operating a communications facility (the "**Equipment**") together with the unrestricted access, and the construction and maintenance of a route for such unrestricted access, for Tenant's uses from the nearest public right-of-way along the Property to the Premises as described on the attached **Exhibit B** (collectively, the "**Premises**").

(b) Upon notification to Landlord, during the Option Term and during the term of this Agreement, Tenant and its agents, engineers, surveyors and other representatives will have the right to enter upon the Property to inspect, examine, conduct soil, drainage testing, material sampling, and other geological or engineering tests or studies of the Property (collectively, the "**Tests**"), to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant's sole discretion for its use of the Premises and include, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively, the "**Government Approvals**"), initiate the ordering and/or scheduling of necessary utilities, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Property, the environmental history of the Property, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use, all at Tenant's expense. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant's inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Option Term, reasonable wear and tear and casualty not caused by Tenant excepted. In addition, Tenant shall indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or claims arising directly out of Tenant's Tests. Upon completion of construction of the Equipment, Tenant no longer needs to notify Landlord of access to Premises.

(c) During the Option Term, Landlord will not (i) enter into a lease with a Competitor of Tenant of property owned or controlled by Landlord within a two (2) square mile radius of the Premises, for the purpose of constructing and operating a communications facility; or (ii) sell to a Competitor of Tenant or to any third-party property owned or controlled by Landlord within a two (2) square mile radius of the Premises for the purpose of constructing and operating a communications facility.

(d) During the Option Term, Tenant may exercise the Option by notifying Landlord in writing. If Tenant exercises the Option then Landlord leases the Premises to the Tenant subject to the terms and conditions of this Agreement. If Tenant does not exercise the Option, this Agreement will terminate and the parties will have no further liability to each other.

II TERM

(a) The initial term of this Lease shall be Ten (10) years commencing on the date of written notification by Tenant to Landlord of Tenant's exercise of the option or the date Tenant commences construction whichever occurs first (the "Commencement Date"), and terminating at midnight on the last day of the initial term (the "Initial Term"). Tenant may terminate this Lease at anytime it deems necessary.

(b) Tenant shall have the right to extend this Lease for Eight (8) additional, Five (5) year terms (each a "Renewal Term"). This Lease shall automatically renew for each successive Renewal Term unless Tenant notifies Landlord, in writing, of Tenant's intention not to renew this Lease, at least sixty days (60) days prior to the expiration of the Initial Term or any Renewal Term. If Tenant shall remain in possession of the Premises at the expiration of this Lease or any Renewal Term without a written agreement, such tenancy shall be deemed a month-to-month tenancy under the same terms and conditions of this Lease.

III RENT

IV RIGHTS AND OBLIGATIONS OF TENANT

(a) Right of Access. Tenant shall, during the Term of this Agreement, have the right of ingress to and egress from the Premises over an access road, as shown in Exhibit B, attached hereto and incorporated herein by reference, for the purpose of installing, operating, maintaining and/or removing the Equipment, however such right is limited to authorized employees, subtenants, licensees, invitees, assignees, or agents of Tenant and/or other persons under Tenant's supervision. The parties agree that Exhibit B will be replaced by a final survey once said survey is complete. Landlord and Tenant shall cooperate with each other to determine a mutually acceptable access route.

(b) Removal of Equipment. Upon expiration or termination of this Agreement, Tenant shall remove all of the Equipment installed on the Premises without damage to Landlord's property, and shall restore the Premises, as is reasonable, to its original condition immediately prior to the commencement of this Agreement, with the exception of (i) plants, trees or similar vegetation removed from the Premises and/or topographical changes to the Premises in order to fulfill the transaction contemplated by this Agreement; and/or (ii) ordinary wear and tear. Title to all Equipment, whether or not such is considered real or personal property, and whether or not such is considered as being affixed to the property, shall be and remain vested in Tenant (or its subtenants and licensees, as applicable).

(c) Utilities. During the Term of this Agreement, Tenant shall pay for its own separately metered utilities. Tenant shall, during the Term of this Agreement, have the right to order, construct and maintain utilities along the route shown in Exhibit B, attached hereto and incorporated herein by reference. Such utility location and installation method shall be mutually agreed upon by the utility companies and the Tenant. Landlord agrees to comply with each utility company to provide a separate easement for utilities, if additional easements are necessary.

(d) Maintenance. Tenant shall be responsible for maintaining the Equipment. Tenant shall have no other maintenance responsibilities with respect to the Premises other than those expressly set forth herein.

(e) Taxes. Tenant shall be responsible for any taxes, including real estate and personal property taxes that may be incurred as a result of the installation or operation of the Equipment at the Premises. Landlord shall promptly pay all real estate taxes and assessments against the Property when due and shall avoid any delinquencies with respect thereto. Tenant shall promptly pay Landlord only upon receipt of such invoice and all other reasonable documentation as requested of Landlord by Tenant to evidence such increase in taxable amounts resulting from the installation or operation of the Equipment at the Premises. Landlord shall also pay promptly, when due, any other amounts or sums due and owing with respect to its ownership and operation of the Property, including, without limitation, judgments, liens, mortgage payments and other similar encumbrances. If Landlord fails to make any payments required under this Lease, such as the payment of real estate taxes and assessments, or breaches any other obligation or covenant under this Lease, Tenant may (without obligation), after providing ten (10) days written notice to Landlord, make such payment or perform such obligation on behalf of Landlord. The full amount of any costs so incurred by Tenant (including any attorneys' fees incurred in connection with Tenant performing such obligation) shall be paid by Landlord to Tenant with interest at the statutory rate thereon.

(f) Subleases. Landlord hereby grants Tenant the right to sublease or license all or any part of the Premises and any such subtenant or licensee shall have the right to use any and all easements granted hereunder pursuant to the terms hereof.

V

RIGHTS & OBLIGATIONS OF LANDLORD

Landlord shall not interfere with the installation or cause any interference with the operation of the Equipment or with Tenant's (or its subtenant's or licensee's) use of the Premises as contemplated herein.

VI

INDEMNIFICATION

(a) Indemnification by Tenant. Tenant shall indemnify and hold harmless Landlord from any claim which may arise against Landlord by any reason or occurrence attributable to (i) the installation, operation or maintenance of the Equipment on the Premises; (ii) is due to Tenant's failure to perform any material obligation hereunder; or (iii) is due to any misrepresentation or breach of warranty by Tenant hereunder. Tenant shall not be liable for, and shall have no obligation to indemnify or defend Landlord or any third-party and will not hold Landlord or any third-party harmless from any claims or damages that may have arisen or may arise due to a pre-existing condition or defect, including but not limited to, any claims arising out of contamination by, or storage of, any hazardous substance(s).

(b) Indemnification by Landlord. Landlord shall indemnify and hold harmless Tenant from any claim which may arise against Tenant by any reason or occurrence attributable to (i) Landlord's use or occupation of the Premises; (ii) Landlord's failure to perform any material obligation hereunder; (iii) any misrepresentation or breach of warranty by Landlord hereunder or (iv) all pre-existing conditions or defects in the Premises and Property, including, but not limited to, any claims arising out of contamination by, or storage of, any regulated and/or hazardous substances(s).

(c) Environmental Indemnification by Landlord. Landlord shall indemnify and hold Tenant harmless from any claims, costs, and/or liabilities that may arise, including but not limited to, claims of personal injury, death, pollution, contamination, and property damage, incurred as a result of the negligent or intentional storage, dumping, leaking, or use of any regulated and/or hazardous substances, as that term is defined by federal and state law, by Landlord, its employees, agents, servants, invitees, visitors or any other person under Landlord's control or supervision, whether or not Tenant is adjudged to have been comparatively negligent. Landlord shall indemnify Tenant for any and all costs incurred as a result of having to answer and defend any claims set forth above, including without limitation reasonable attorney's fees and court costs. Landlord agrees to immediately notify Tenant of any known regulated and/or hazardous waste conditions,

Site Name: HV1363 Pleasant View

including without limitation, complaints or reports that may be or have been filed against Landlord or the property or served upon Landlord, its agents, servants, employees or other representative.

VII **ASSIGNMENT**

(a) Tenant May Assign At Any Time. This Agreement may, at any time, be assigned by the Tenant. Tenant shall provide notice to Landlord by certified mail within a reasonable amount of time after assignment. Upon reasonable request by Tenant, Landlord shall execute an Estoppel Certificate, Acknowledgment of Rights, or similar document, as set forth in (Article VIII, Section B) hereof, in connection with such assignment.

(b) Assignment by Landlord. This Lease may, at any time, be assigned by the Landlord, who shall provide notice to Tenant by certified mail of such assignment to Tenant within a reasonable amount of time. The assignee shall be bound by the terms of this Agreement and shall not modify the Premises or the associated utility and access easements in any way which would adversely affect Tenant's use of the Premises.

(c) Effect of Assignment. All of the covenants, provisions, terms, agreements, and conditions of this Agreement shall be construed as running with the land and shall inure to the benefit of and be binding upon the respective successors and assigns of the parties hereto. Upon written notification to Landlord of any assignment of this lease by Tenant (together with a copy of such assignee's written assumption of Tenant's obligations hereunder), Landlord shall look solely to such assignee for the satisfaction of Tenant's obligations hereunder, and Tenant shall be released from any further obligations under this lease. As used herein, the term "Tenant" means the holder, from time to time, of the leasehold estate under this Agreement and the term "Landlord" means the holder, from time to time, of the reversionary estate under this Agreement.

VIII **RIGHTS OF TENANT TO MORTGAGE**

(a) Right of Tenant to Mortgage Leasehold Interest. Landlord acknowledges that Tenant has the right, without the necessity of obtaining Landlord's consent, at any time to: (i) encumber its leasehold estate by mortgage or other encumbrance or lien; and (ii) grant security interests in or place liens upon any and all improvements, including but not limited to, the Equipment (whether or not such is considered real or personal property).

(b) Estoppel Certificates, Landlord's Acknowledgment of Rights, and other Similar Documents. Landlord agrees that it will from time to time, within ten (10) days after request by Tenant, execute and deliver an Estoppel Certificate, Landlord's Acknowledgment of Rights, or other similar statement, in a form that is reasonably acceptable to both Landlord and Tenant and which is recordable in the Land Records of the jurisdiction in which the Premises are located certifying that (i) this Agreement is unmodified and in full force and effect (or if there have been modifications, that the same is in full force and effect as so modified); (ii) stating the dates to which rent and other charges payable hereunder have been paid; (iii) stating that Tenant is not in default hereunder (or if Landlord alleges a default stating the nature of such alleged default); and (iv) acknowledging the rights of Tenant and Tenant's mortgagee as set forth above in Section A above, and further stating such other matters as Tenant or Tenant's mortgagee shall reasonably require.

(c) Waiver of Lien Rights by Landlord. Landlord waives any lien rights it may have concerning the Equipment, whether or not such are deemed Tenant's personal property or fixtures. Landlord acknowledges that Tenant may enter into financing arrangements which, among other things, may provide that the Equipment shall serve as collateral. In connection therewith, Landlord disclaims any interest in the Equipment, whether fixtures or otherwise, and agrees that the Equipment shall be exempt from execution, foreclosure, sale, levy, attachment or distress for any rent due or to become due and that the Equipment may be removed at any time without recourse to legal proceedings.

IX **COVENANTS & WARRANTIES**

(a) Quiet Enjoyment. Landlord covenants that Tenant, upon performance of the terms set forth herein, shall peaceably and quietly hold and enjoy the Premises during the Term of this Agreement without hindrance or interruption by Landlord or any other person, including other tenants or subtenants of Landlord's. Landlord acknowledges (i) that any interference with the Equipment caused by Landlord may cause irreparable harm to Tenant and would constitute a breach of the covenant of quiet enjoyment set forth herein, (ii) that the cessation of such interference is material to the Agreement; and therefore (iii) that Tenant shall have upon any such interference, the right to enjoin any such interference or to terminate this Agreement.

(b) Landlord Owns Premises in Fee Simple. Landlord represents and warrants that Landlord owns the Premises in fee simple and has full power and authority to lease the Premises as well as to grant all easements and right of ways contemplated hereunder without the consent of any other party. Landlord further represents and warrants that the Premises are free and clear of any encumbrances, other than liens of record such as mortgages or others as specifically set forth herein. In the event that it is determined that Landlord has breached its representation and warranty under this Section and Tenant is unable to use the Premises for the purposes contemplated herein and/or to utilize the easements granted herein for the stated purposes, Tenant shall have a right to terminate this Agreement without further obligation to Landlord and seek all other damages available to it at law and in equity, which shall include, without limitation, the right to receive damages in an amount equal to all direct and indirect costs incurred by Tenant as a result of such breach. Landlord agrees to assist Tenant in curing any defects in title.

(c) Environmental. To best of Landlord's knowledge, Landlord represents and warrants that there are no existing regulated and/or hazardous waste conditions on the Premises and that no regulated and/or hazardous substances were or are being stored on said Premises or within the associated easement areas. Landlord shall indemnify and hold Tenant harmless for any claims and/or damages arising from Landlord's breach of this representation and warranty.

X INSURANCE

Tenant shall carry, during the Option Term and the Initial Term of this Agreement, the following insurance, with customary coverages and exclusions:

Bodily Injury:

Five Hundred Thousand Dollars (\$500,000) for injury to any person, and
One Million Dollars (\$1,000,000) for all injuries sustained by more than one person in any one occurrence.

Property Damage:

One Million Dollars (\$1,000,000) per damage as the result of any one accident.

Tenant will increase amount of insurance coverage during the Renewal Terms to reflect current economic conditions and to comply with industry standards for maintaining adequate coverage. Tenant shall, upon Landlord's request, furnish to Landlord Certificates of Insurance certifying that Tenant has the above described insurance and naming Landlord as an additional insured on Tenant's policy as it relates to the Premises.

XI DEFAULT

(a) Default by Landlord. If Landlord defaults in the performance or observance of any provision of this Agreement on its part to be performed and does not commence to cure such default within forty-five (45) days after written notice thereof or does not thereafter diligently complete the cure, if such default is capable of cure, or make, in good faith, progress toward such cure, then, in addition to any other remedies provided in this Lease, shall have the option to terminate this Agreement upon thirty (30) days' notice without further obligation or liability. Tenant reserves the right to withhold Rent as remedy for material breaches of this Agreement, including, but not limited to (i) refusal to execute

Site Name: HV1363 Pleasant View

any documents specified in Section VII, Section VIII and Section XIII, (ii) failure to pay property taxes; (iii) failure to provide Tenant with access to the Property.

(b) Default by Tenant. If Tenant defaults in the performance or observance of any provision of this Agreement on its part to be performed and does not commence to cure such default within forty-five (45) days after written notice thereof or does not thereafter diligently complete the cure, if such default is capable of cure, or make, in good faith, progress toward such cure, then, in addition to any other remedies provided in this Lease, shall have the option to terminate this Agreement upon thirty (30) days' notice without further obligation or liability, subject, however, to the cure rights of any leasehold mortgagee as set forth herein.

(c) Termination by Landlord. The termination by Landlord of this Agreement as aforesaid shall be Landlord's sole and exclusive remedy for any default by Tenant hereunder and Landlord shall not be entitled to any money judgment against Tenant (or any decree for specific performance that would require the payment or expenditure of money by Tenant to or on behalf of Landlord) in connection with this Agreement or on account of a default in any covenant of this Agreement on Tenant's part to be performed or observed. Upon termination of this Agreement as aforesaid, Tenant shall, within forty-five (45) days of such termination, **or soon thereafter as weather permits**, remove all Equipment from the Premises pursuant to the terms of Section IV, paragraph 2.

XII NOTICE

It is understood and agreed between the parties hereto that written notice delivered by an overnight delivery service or by certified mail, return receipt requested, postage prepaid to a party's offices as specified herein, shall constitute notice to that party sufficient to comply with the terms of this Agreement. Addresses are as follows:

To Landlord: George & Carolyn Bowman
 140 E. Church St.
 Williamsburg, Kentucky 40769
 ATTN: George & Carolyn Bowman

Landlord's Payee: George & Carolyn Bowman
 140 E. Church St.
 Williamsburg, Kentucky 40769

To Tenant: HORVATH TOWERS V, LLC
 312 W. Colfax Ave.
 South Bend, IN 46601
 ATTN: Lease Administration
 Office: (574) 237-0464
 Fax: (574) 217-4357

XIII GENERAL PROVISIONS

1. Contingencies.

(a) Permits, Approvals, Utilities, Rights of Way. This Agreement is contingent upon Tenant's obtaining and maintaining any permits, licenses, or approvals required by any federal, state or local authority, including without limitations the Federal Communications Commission, the Federal Aviation Authority, and any local zoning authority, as well as obtaining all necessary utilities and any and all easements and rights of way necessary to access the Premises.

(b) Technical Analysis and Environmental Studies. This Agreement is further contingent upon (i) the satisfactory completion of technical analyses which will be performed to verify that acceptable microwave communication is possible from the tower to be constructed on the Premises to other communications facilities operated, or planned, by Tenant in the surrounding area and/or (ii) a satisfactory environmental/geological report indicating that the Premises are suitable and/or economically viable for Tenant's intended use. Such analyses shall be completed within the applicable Option Term of this Agreement.

(c) Non-Disturbance. The Landlord shall obtain for the benefit of the Tenant and its subtenants a commercially reasonable non-disturbance and attornment agreement (a "Non-Disturbance Agreement") from each holder of a mortgage, deed of trust, deed to secure debt or other similar instrument now or hereafter encumbering the Premises (a "Mortgage"), confirming that the Tenant's right to quiet possession of the Premises during the term of this Agreement, including any extensions hereof, shall not be disturbed as long as the Tenant is not in default hereunder. No such subordination shall be effective unless the holder of such Mortgage shall, either in the Mortgage itself or in a separate agreement with the Tenant and its subtenants, agree that in the event of a foreclosure or conveyance in lieu of foreclosure of the Landlord's interest in the Premises, such holder shall recognize and confirm the validity and existence of this Lease and the related rights of the Tenant and its subtenants hereunder, and this Agreement shall continue in full force and effect and the Tenant shall have the right to continue its use and occupancy of the Premises in accordance with the provisions of this Agreement as long as the Tenant is not in default of this Agreement beyond applicable notice and cure periods. The Landlord shall execute in a timely manner whatever instruments may reasonably be required to evidence the provisions of this paragraph and shall use its best efforts to cause the holder of any Mortgage to do the same.

2. Landlord's Assistance with Various Applications and Permits. Landlord shall join in and consent to any applications or petitions filed by Tenant with any governmental, public or judicial agency in connection with the use, development or occupancy of the Premises and which may require the joinder and consent of Landlord, including, but not limited to, building permits, applications for reclassifications, special exceptions and variances under the zoning laws, demolition of improvements, construction or alteration of improvements, erection and maintenance of signs, connections to utility facilities, public works agreements, subdivision applications, and licenses or minor privileges; but Tenant shall bear all costs and fees with respect to such applications. All costs associated with the above instruments are the sole responsibility of the Tenant.

3. Recordation and Memorandum of Agreement. Simultaneously with the execution of this Agreement, Landlord shall execute a memorandum of option, a form of which is attached and incorporated herein as **Exhibit C**, and a memorandum of lease, a form of which is attached and incorporated herein as **Exhibit D**, both in recordable form for recording among the appropriate Office of Land Records. Such memoranda shall contain a description of the Premises and its associated access, utility, and guy anchor easements and set forth the term of this Agreement and any other provisions hereof as may be necessary or desirable. Tenant shall pay for all document recording fees.

4. First Right of Refusal. In the event Landlord shall receive a bonafide offer from a third party to purchase or if Landlord intends to communicate to a third party an offer to sell, (a) all or any portion of the Premises, (b) any adjoining or adjacent property subject to an easement hereunder or (c) this Agreement or any rights hereunder (in each case, the "Sale Assets"), Landlord shall first communicate the terms of such offer to Tenant, provide a copy of the bonafide offer to Tenant and offer to sell such property to Tenant upon the same terms and conditions, including any financing terms. Tenant shall have thirty (30) days from receipt of said notice from Landlord to accept said offer in writing. If Tenant accepts Landlord's offer within thirty (30) days, Landlord shall be bound to sell the Sale Assets to Tenant, and Tenant shall be bound to purchase the Sale Assets from Landlord, in accordance with the bonafide offer. If Tenant purchases the Sale Assets pursuant to this paragraph, any easements granted from Landlord to Tenant for the benefit of the Premises shall become permanent easements without further consideration. If Tenant fails to exercise such right of first refusal within the stated time, Landlord may sell the Sale Assets subject to any and all terms and conditions of this Lease; provided, however, that if the terms of sale change and if Landlord has not sold or transferred title to such property within ninety (90) days of the date of Landlord's written notice to Tenant, any such sale and transfer of title shall again

Site Name: HV1363 Pleasant View

be subject to Tenant's said right of first refusal. Tenant's right of first refusal shall continue in effect as to any subsequent proposed sale by the current landlord or by any transferee.

5. Non-Competition. During the Term and for the two (2) year period commencing on the effective date of termination of this Lease, Landlord will not (i) enter into a lease with a Competitor of Tenant of property owned or controlled by Landlord within a two (2) square mile radius of the Premises, for the purpose of constructing and operating a communications facility; or (ii) sell to a Competitor of Tenant or to any third-party property owned or controlled by Landlord within a two (2) square mile radius of the Premises for the purpose of constructing and operating a communications facility. For purposes of this Lease, the term "**Competitor**" means any person or entity engaged in the business of (i) building wireless communication facilities for the purpose of broadcasting and/or receiving wireless transmissions licensed by the Federal Communications Commission of the United States (the "**FCC**"), or (ii) subletting wireless communication facilities to any third-party for the purpose of broadcasting/receiving wireless transmissions licensed by the FCC. The parties agree that the terms of this Agreement, generally, and in particular this Section XIII.5, are reasonable and should be valid and enforceable in order to protect the legitimate business interest of Tenant. Landlord acknowledges and agrees that any violation of Section XIII.5 hereof would cause Tenant irreparable damage and that Tenant's remedy at law for any breach of Landlord's obligations under this Agreement would be inadequate. Landlord specifically agrees that if it violates or threatens to violate such restrictions, Tenant shall be entitled to injunctive relief against Landlord, without the necessity of proof of actual damage or the posting of a bond, in addition to any other remedies available under this Agreement at law or in equity.

6. Invalidity of Certain Provisions. In the event that any provision of this Agreement is invalid or unenforceable, the remainder of this Agreement shall not be affected, and a suitable and equitable provision shall be substituted for the invalid or unenforceable provision in order to carry out, as far as may be valid and enforceable, the intent and purpose of such invalid or unenforceable provision.

7. No Partnership. Notwithstanding any obligation from one party to the other herein, the parties hereto state that they have not created and do not intend to create by this Agreement a Joint Venture or Partnership relation between them.

8. Entire Understanding. This Agreement contains the entire understanding of the parties with respect to the subject matter hereof and supersedes any and all other oral or written agreements or understandings between, the parties. Neither party has made nor relied on any promise, understanding, warranty or representation other than as specifically set forth herein. This Agreement may not be changed, modified, or amended except by a written instrument signed by both parties hereto. Both parties have had the opportunity to review this Agreement prior to execution, and in its final form, the Agreement reflects the understanding of both parties and shall not be construed against any one party.

9. Condemnation. If a condemning authority takes all of the Property, or a portion sufficient in Tenant's determination, to render the Property in the opinion of Tenant unsuitable for the use which Tenant was then making of the Property, this Lease shall terminate as of the date the title vests in the condemning authority. Landlord and Tenant shall share in the condemnation proceeds in proportion to the values of their respective interests in the Property which for Tenant shall include, where applicable, prepaid Rent). A sale of all or part of the Property to a purchaser with the power of eminent domain in the face of the exercise of eminent domain power shall be treated as a taking by condemnation for the purposes of this paragraph.

10. Choice of Law. The validity of this Agreement, the terms of this Agreement, and all duties, obligations and rights arising from this Agreement shall be governed by and interpreted in accordance with the laws of the State of Indiana.

Site Name: HV1363 Pleasant View

11. Jurisdiction. The parties agree to be subject to personal jurisdiction in Indiana with respect to any legal action concerning the validity or enforcement of this Agreement, and further agree that such legal action may be brought only in the United States District Court for the Northern District of Indiana, South Bend Division, or in a state court in St. Joseph County, Indiana. If such legal action is initiated in any other court, then Tenant and Landlord will voluntarily agree to have such action transferred to or re-filed in the United States District Court for the Northern District of Indiana, South Bend Division, or in a state court in St. Joseph County, Indiana.

12. Enforcement. If Tenant finds it necessary or appropriate to initiate legal proceedings to enforce its rights under this Agreement, and if Tenant is the prevailing party in such proceedings, Landlord agrees to reimburse Tenant for all expenses thereby incurred, including court costs, reasonable attorney and expert witness fees, and other litigation expenses.

{Signatures to follow}

Site Name: HV1363 Pleasant View

IN WITNESS WHEREOF, this Agreement is hereby executed as of the first date written above.

LANDLORD

George B. Bowman and his wife, Carolyn Bowman

By: *George B. Bowman*

Print Name: George B. Bowman

Date: 1-16-19

By: *Carolyn Bowman*

Print Name: Carolyn Bowman

Date: 1-16-19

TENANT
HORVATH TOWERS V, LLC
A DELAWARE LIMITED LIABILITY COMPANY

Signed: *Erin Moskewski*

Print Name: Erin Moskewski

Title: Vice President/CMO

Date: 2.25.19

LANDLORD ACKNOWLEDGMENT

STATE OF Ky)
) ss:
COUNTY OF Whitley)

On the 16 day of January, 2019 before me personally appeared **George B. Bowman**, who being duly sworn on his/her oath, deposed and made proof to my satisfaction that he/she signed and delivered the same as his/her voluntary act and deed.

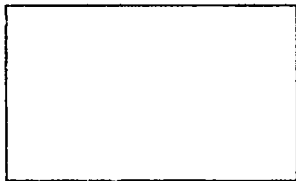


Notary Seal

Amita Moore
Notary Public
My Commission Expires: 6/6/2022

STATE OF Ky)
) ss:
COUNTY OF Whitley)

On the 16 day of January, 2019 before me personally appeared **Carolyn Bowman**, who being duly sworn on his/her oath, deposed and made proof to my satisfaction that he/she signed and delivered the same as his/her voluntary act and deed.



Notary Seal

Amita Moore
Notary Public
My Commission Expires: 6/6/2022

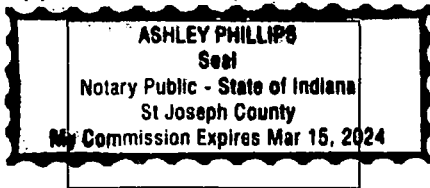
Site Name: HV1363 Pleasant View

TENANT ACKNOWLEDGMENT

STATE OF INDIANA)
) ss
COUNTY OF ST. JOSEPH)

I CERTIFY that on 25 day of February 2019 Erin Moskwinski personally came before me and acknowledged under oath that she:

- (a) is the Vice President/CMO of HORVATH TOWERS V, LLC, the limited liability company named in the attached instrument,
- (b) was authorized to execute this instrument on behalf of the company, and
- (c) executed the instrument as the act of the company.



Ashley Phillips
Notary Public
My Commission Expires: 3/15/24

Site Name: HV1363 Pleasant View

Exhibit A

Description of Property

PARENT PARCEL

PARCEL NO.: 131-40-14-002.00

PROPERTY ADDRESS: 140 E. Church St., Williamsburg, Kentucky 40769

<TO BE ADDED AFTER SURVEY IS COMPLETE>

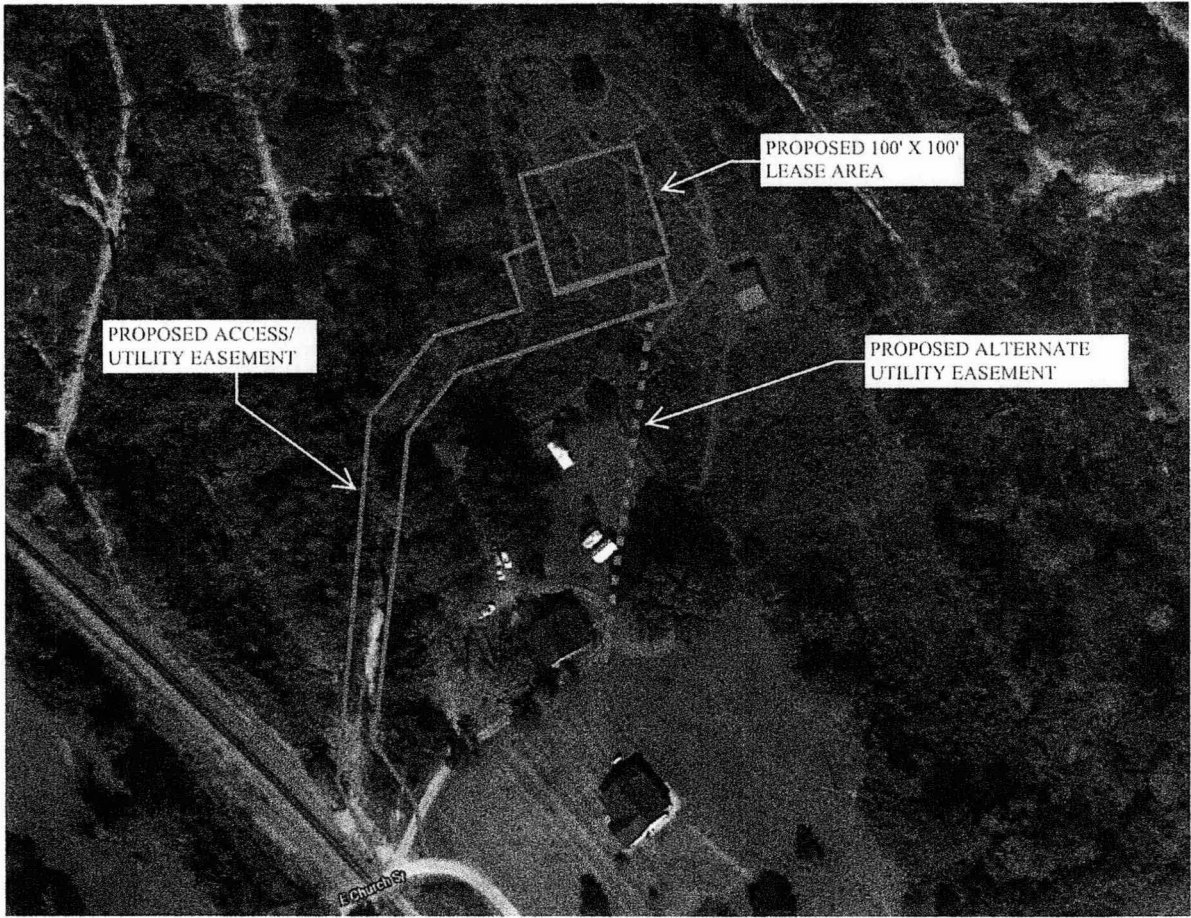
Site Name: HV1363 Pleasant View

Exhibit B

Site Sketch/Survey of Leased Premises

< SEE ATTACHED SITE SKETCH >

This exhibit is only a drawing representing approximately where the Premises will be placed on the property. Professional drawings showing the site, tower location, easements and right of ways will replace this exhibit when completed.



PROPOSED ACCESS/
UTILITY EASEMENT

PROPOSED 100' X 100'
LEASE AREA

PROPOSED ALTERNATE
UTILITY EASEMENT

E Church St

Exhibit C

Form of Memorandum of Option

MEMORANDUM OF OPTION

This Memorandum of Option is entered into on this ____ day of _____, 20____, by and between INSERT NAME OF LANDLORD, INSERT ENTITY STATE AND TYPE, having a mailing address of INSERT LANDLORD'S MAILING ADDRESS ("Landlord"), and HORVATH TOWERS V, LLC, a Delaware limited liability company, having an address of 312 W. Colfax Ave., South Bend, Indiana 46601 ("Tenant").

1. Landlord and Tenant entered into a certain Option and Lease Agreement ("Agreement") dated _____, 20____, regarding certain real property of Landlord described on **Exhibit A** attached hereto and made a part herof (the "Property"). [Attach description of Landlord's entire parcel, this note is for reference only – please delete]
2. The Agreement grants to Tenant for a period of [eighteen (18) months] commencing on the ____ day of _____, 20____ an option (the "Option") to lease a portion of the Property measuring approximately 100' x 100' (10,000) square feet and located at ±INSERT APPROXIMATE ADDRESS OF SITE (INSERT COORDINATES OF SITE) for the purpose of constructing and operating a communications facility together with unrestricted access for Tenant's uses from the nearest public right-of-way along the Property to the Premises.
3. During the term of the Option, Tenant shall have the right to to enter upon the Property to inspect, examine, conduct soil, drainage testing, material sampling, and other geological or engineering tests or studies of the Property, to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant's sole discretion for its use of the Premises and include, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively, the, initiate the ordering and/or scheduling of necessary utilities, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Property, the environmental history of the Property, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use, all at Tenant's expense.
4. Tenant shall have the sole right in its discretion to exercise the Option, whereupon the Option shall become a Lease, and Tenant shall record a memorandum of lease.
5. The Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, successors, and assigns, subject to the provisions of the Agreement.
6. This Memorandum is prepared for the purpose of recordation and does not modify the provisions of the Agreement. The Agreement is incorporated herein by reference. If there are any conflicts between the Agreement and this Memorandum, the provisions of the Agreement shall prevail.

Site Name: HV1363 Pleasant View

{END OF MEMORANDUM}

{SIGNATURES AND ACKNOWLEDGEMENTS FOLLOW}

Exhibit Only -
DO NOT EXECUTE

This Instrument Was Prepared By :

Nancy Benjamin
HORVATH TOWERS V, LLC
312 W. Colfax Ave.
South Bend, IN 46601

I affirm, under the penalties for perjury,
that I have taken reasonable care to
redact each Social Security number in
this document, unless required by law.
Nancy Benjamin

When Recorded, Return to:

HORVATH TOWERS V, LLC
312 W. Colfax Ave.
South Bend, IN 46601
(574) 237-0464

Site Name: HV1363 Pleasant View

IN WITNESS WHEREOF, the parties have executed this Memorandum of Option as of the day and year first above written.

LANDLORD
INSERT LANDLORD NAME
INSERT ENTITY TYPE AND STATE IF APPLICABLE

Signature

Print Name: _____

Title: _____

Date: _____

EXHIBIT ONLY -
DO NOT EXECUTE

TENANT
HORVATH TOWERS V, LLC
A DELAWARE LIMITED LIABILITY COMPANY

Signature

Title: _____

Date: _____

Site Name: HV1363 Pleasant View

LANDLORD ACKNOWLEDGMENT

STATE OF _____)
) ss:
COUNTY OF _____)

On the ____ day of _____, 20__ before me personally appeared INSERT NAME OF SIGNATORY, INSERT TITLE OF SIGNATORY, who being duly sworn on his/her oath, depose and made proof to my satisfaction that he/she signed and delivered the same as his/her voluntary act and deed.



Notary Seal

Notary Public

My Commission Expires: _____

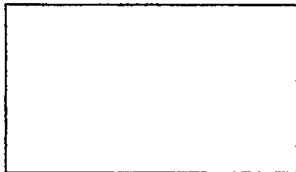
Exhibit Only
DO NOT EXECUTE

TENANT ACKNOWLEDGMENT

STATE OF INDIANA)
) ss
COUNTY OF ST. JOSEPH)

I CERTIFY that on _____ day of _____, 20__, personally came before me and acknowledged under oath that she:

- (c) is the of HORVATH TOWERS V, LLC, the limited liability company named in the attached instrument,
- (d) was authorized to execute this instrument on behalf of the company, and
- (c) executed the instrument as the act of the company.



Notary Seal

Notary Public

My Commission Expires: _____

Exhibit D

Form of Memorandum of Lease

MEMORANDUM OF LEASE

This Memorandum of Lease is entered into on this ____ day of _____, 20____, by and between INSERT NAME OF LANDLORD, INSERT ENTITY STATE AND TYPE IF APPLICABLE, having a mailing address of INSERT LANDLORD'S MAILING ADDRESS ("Landlord"), and HORVATH TOWERS V, LLC, a Delaware limited liability company, having an address of 312 W. Colfax Ave., South Bend, Indiana 46601 ("Tenant").

1. Landlord and Tenant entered into a certain Option and Lease Agreement ("Agreement") dated _____, 20____, for the purpose of installing, operating and maintaining a communications facility and other improvements. All of the foregoing are set forth in the Agreement.
2. The initial term of the Agreement is for ten (10) years commencing on the ____ day of _____, 20____, the Commencement Date. The initial term is subject to [6 (six) additional 5-year extension periods].
3. The portion of the land being leased to Lessee (the "Premises") is described in **Exhibit A** annexed hereto.
4. During the term of the Agreement, Tenant shall have the continuing first right to purchase (a) all or any portion of the Premises, (b) any adjoining or adjacent property subject to an easement hereunder or (c) the Agreement or any rights thereunder in accordance with and subject to the provisions and conditions of the Lease.
5. The Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, successors, and assigns, subject to the provisions of the Agreement.
6. This Memorandum is prepared for the purpose of recordation and does not modify the provisions of the Agreement. The Agreement is incorporated herein by reference. If there are any conflicts between the Agreement and this Memorandum of Lease, the provisions of the Agreement shall prevail.

{END OF MEMORANDUM}

{SIGNATURES AND ACKNOWLEDGEMENTS FOLLOW}

Site Name: HV1363 Pleasant View

IN WITNESS WHEREOF, the parties have executed this Memorandum of Option and Agreement as of the day and year first above written.

LANDLORD
INSERT LANDLORD NAME
INSERT ENTITY TYPE AND STATE IF APPLICABLE

Signature

Print Name: _____

Title: _____

Date: _____

Exhibit Only -
DO NOT EXECUTE

TENANT
HORVATH TOWERS V, LLC
A DELAWARE LIMITED LIABILITY COMPANY

Signature

Title: _____

Date: _____

Site Name: HV1363 Pleasant View

LANDLORD ACKNOWLEDGMENT

STATE OF _____)
) ss:
COUNTY OF _____)

On the ____ day of _____, 20__ before me personally appeared INSERT NAME OF SIGNATORY, INSERT TITLE OF SIGNATORY IF APPLICABLE, who being duly sworn on his/her oath, deposed and made proof to my satisfaction that he/she signed and delivered the same as his/her voluntary act and deed.



Notary Seal

Notary Public

My Commission Expires

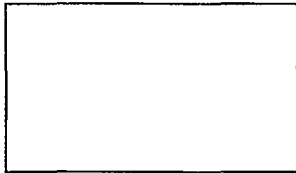
EXHIBIT ONLY
DO NOT EXECUTE

TENANT ACKNOWLEDGMENT

STATE OF INDIANA
) ss:
COUNTY OF ST. JOSEPH)

I CERTIFY that on ____ day of _____, 20__, personally came before me and acknowledged under oath that she:

- (e) is the of HORVATH TOWERS V, LLC, the limited liability company named in the attached instrument,
- (f) was authorized to execute this instrument on behalf of the company, and
- (c) executed the instrument as the act of the company.



Notary Seal

Notary Public

My Commission Expires:

This Instrument Was Prepared By :

Nancy Benjamin
HORVATH TOWERS V, LLC
312 W. Colfax Ave.
South Bend, IN 46601

I affirm, under the penalties for perjury, that I have taken reasonable care to redact each Social Security number in this document, unless required by law.
Nancy Benjamin

When Recorded, Return to:

HORVATH TOWERS V, LLC
312 W. Colfax Ave.
South Bend, IN 46601
(574) 237-0464

Site Name: HV1363 Pleasant View

**EXHIBIT A
TO THE MEMORANUM**

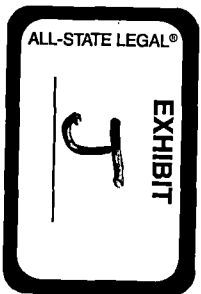
DESCRIPTION OF PREMISES

The Premises are described and/or depicted as follows:

A Complete Survey will be attached prior to recording.

PLEASANT VIEW - 500' ABUTTERS LIST

<i>Name</i>	<i>Name 2</i>	<i>Address</i>	<i>City</i>	<i>State</i>	<i>Zip</i>
George and Carolyn Bowman		140 E Church Street	Williamsburg	KY	40769
Brian Chinn		448 Stringtown Road	Williamsburg	KY	40769
Gary Cupp		1017 Keswick Road	Williamsburg	KY	40769
Jamie Davenport		1113 Ryan Cemetery Road	Williamsburg	KY	40769
Justin and Lisa Hensley		29 Train View Lane	Williamsburg	KY	40769
Billy and Ashley McVey		62 Train View Lane	Williamsburg	KY	40769
Tammy and Doyle Inman		32 Train View Lane	Williamsburg	KY	40769
Lavinnia Miracle		144 East Church Street	Williamsburg	KY	40769
Jason Durham		75 East Church Street	Williamsburg	KY	40769
Thresha and Wesley Taylor		74 East Church Street	Williamsburg	KY	40769
Susan Lyon Felts		703 Jordan Hollow Road	Williamsburg	KY	40769
William F Norman		2799 Sandy Flats Road	Williamsburg	KY	40769
David Lyons		94 East Church Street	Williamsburg	KY	40769
Rosetta Rostron		202 Mimosa Circle	Clinton	TN	37716
Donald B Siler		384 Rosebrook Drive	Gallatin	TN	37066
Phyllis Veach		312 Stringtown Road	Williamsburg	KY	40769
James and Anna Anderson		278 Cemetery Road	Emlyn	KY	40730
Arlis and Doris Moses		264 East Church Street	Williamsburg	KY	40769
Dearl and Michelle West		PO Box 73	Emlyn	KY	40730
Ethel Baldwin		PO Box 2233	Williamsburg	KY	40769
Dorothy Russell	c/o Carolyn Perkins	136 Depor Lane	Newcomb	TN	37819
Vedia Newson		PO Box 22	Emlyn	KY	40730
Eric Hone		100 Stringtown Road	Williamsburg	KY	40769
Wesley Jones and Others	c/o Wesley Jones Jr.	120 E Main Street, Apt 2017	Lexington	KY	40507
Timmy & Shelbie Baker Life Estate	c/o Tim and Carrie Baker	386 Embry Moses Road	Williamsburg	KY	40769



JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

George and Carolyn Bowman
140 E Church Street
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

A handwritten signature in black ink, appearing to read "J. Walbourn", written over a horizontal line.

Jacob C. Walbourn

W. Brent Rice

Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbrayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Brian Chinn
448 Stringtown Road
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its
Application before the Kentucky Public Service Commission to Construct a Cellular
Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

A handwritten signature in black ink, appearing to read "J. Walbourn", written over a horizontal line.

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1



JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Gary Cupp
1017 Keswick Road
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Jamie Davenport
1113 Ryan Cemetery Road
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Justin and Lisa Hensley
29 Train View Lane
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Billy and Ashley McVey
62 Train View Lane
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

A handwritten signature in black ink, appearing to read "Jacob C. Walbourn", written over a horizontal line.

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Tammy and Doyle Inman
32 Train View Lane
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

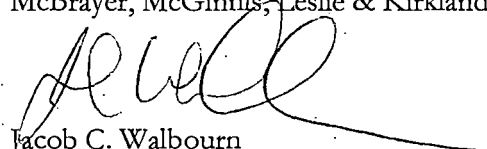
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn

W. Brent Rice

Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Lavinnia Miracle
144 East Church Street
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its
Application before the Kentucky Public Service Commission to Construct a Cellular
Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Jason Durham
75 East Church Street
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

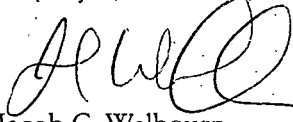
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Thresha and Wesley Taylor
74 East Church Street
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

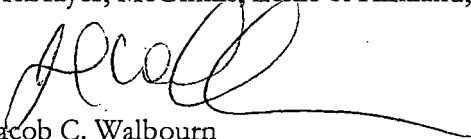
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Susan Lyon Felts
703 Jordan Hollow Road
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

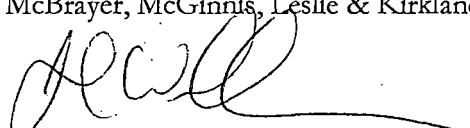
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn

W. Brent Rice

Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbrayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

William F Norman
2799 Sandy Flats Road
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

A handwritten signature in black ink, appearing to read "J. Walbourn", written over a horizontal line.

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT: 1102

April 11, 2019

Via Certified Mail

David Lyons
94 East Church Street
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

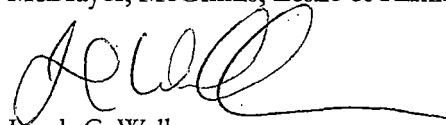
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Rosetta Rostron
202 Mimosa Circle
Clinton, TN 37716

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its
Application before the Kentucky Public Service Commission to Construct a Cellular
Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

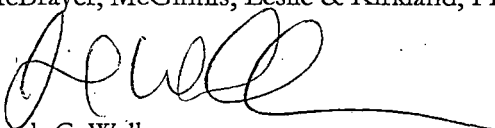
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn

W. Brent Rice

Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Donald B Siler
384 Rosebrook Drive
Gallatin, TN 37066

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its
Application before the Kentucky Public Service Commission to Construct a Cellular
Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Phyllis Veach
312 Stringtown Road
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

James and Anna Anderson
278 Cemetery Road
Emlyn, KY 40730

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Arlis and Doris Moses
264 East Church Street
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Dearl and Michelle West
PO Box 73
Emlyn, KY 40730

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its
Application before the Kentucky Public Service Commission to Construct a Cellular
Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Ethel Baldwin
PO Box 2233
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its
Application before the Kentucky Public Service Commission to Construct a Cellular
Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

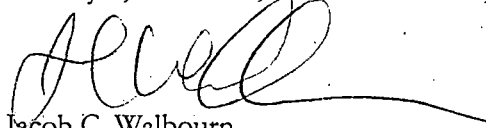
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbrayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Dorothy Russell
c/o Carolyn Perkins
136 Depor Lane
Newcomb, TN 37819

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its
Application before the Kentucky Public Service Commission to Construct a Cellular
Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

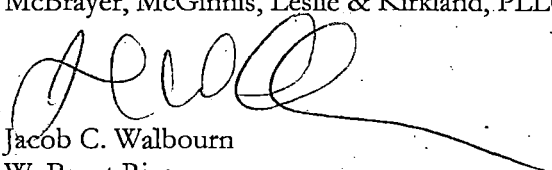
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Vedia Newson
PO Box 22
Emlyn, KY 40730

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Eric Hone
100 Stringtown Road
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

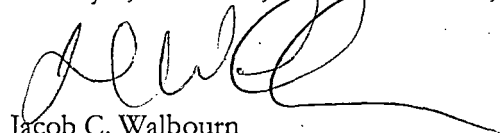
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Wesley Jones and Others
c/o Wesley Jones Jr.
120 E Main Street, Apt 2017
Lexington, KY 40507

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its
Application before the Kentucky Public Service Commission to Construct a Cellular
Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

Jacob C. Walbourn

W. Brent Rice

Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mcbraayerfirm.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 1102

April 11, 2019

Via Certified Mail

Timmy & Shelbie Baker Life Estate
c/o Tim and Carrie Baker
386 Embry Moses Road
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its
Application before the Kentucky Public Service Commission to Construct a Cellular
Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Property Owner:

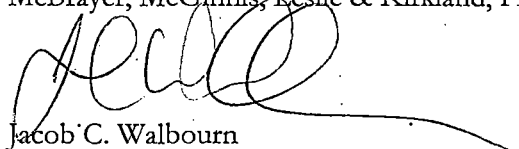
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at 140 East Church Street, Williamsburg, Whitley County, Kentucky. The proposed Facility will, on its installation, allow for co-location of multiple carriers, which will eliminate the need for additional facilities in the area. A map showing the location of the proposed new facility is enclosed. This notice is forwarded to you because you own property within five-hundred feet (500') of the proposed facility, or property contiguous to it.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for users living in or travelling in this area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on adjacent properties.

Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of the application. You may contact the PSC by contacting Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to the Docket No. 2019-00117 in any correspondence. You may contact the undersigned if we can assist in any way.

Sincerely,

McBreyer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn
W. Brent Rice

Counsel for Horvath Towers V, LLC

Enclosure
4818-6478-2947, v. 1

JACOB C. WALBOURN
jwalbourn@mmlk.com



201 EAST MAIN STREET, SUITE 900
LEXINGTON, KY 40507
859.231.8780 EXT. 102

April 10, 2019

Via Certified Mail

Judge-Executive Pat White
PO Box 237
Williamsburg, KY 40769

Re: Notice of Horvath Towers V, LLC ("Applicant") to Judge-Executive of its Application before the Public Service Commission to Construct a Cellular Tower Facility at 140 East Church Street, Williamsburg, Whitley County

Dear Judge Johnson:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 230' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at near 140 East Church Street in Williamsburg. The proposed Facility will, on its installation, allow for co-location of multiple carriers. A map showing the location of the proposed new facility is enclosed.

There is a crucial need to upgrade wireless cell services for existing covered customers in this area, and to expand capacity to serve future customers. Additionally, this facility is crucial to providing wireless communications ability, including the ability to contact emergency services, for residents and travelers in the area. Our client's representatives have attempted to select a site that addresses the service deficit while minimizing the impact on Whitley County residents.

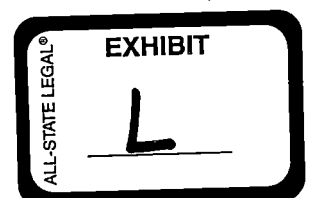
Your comments regarding the proposed application are invited by the Public Service Commission, as well as the Applicant. You may submit comments or request intervention in the PSC's consideration of this application. You may contact the PSC by contacting the Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to Docket No. 2019-00117 in any correspondence related to this application.

Please do not hesitate to contact me if I can provide any additional assistance with this matter.

Sincerely,

Jacob C. Walbourn
W. Brent Rice
Counsel for Horvath Towers V, LLC

Enclosure



Horvath Towers V, LLC proposed to construct a telecommunications tower near this site.

If you have questions, please contact:
Hovath Towers V, LLC
312 W Colfax Ave, South Bend, IN 46601

or the Executive Director, Public Service Commission,
PO Box 615
Frankfort, KY 40602

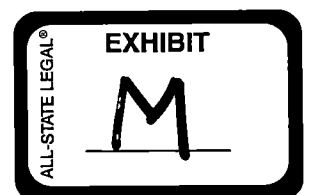
Please refer to Docket No. 2019-00117 in any correspondence.

Horvath Towers V, LLC proposed to construct a telecommunications tower at this site.

If you have questions, please contact:
Hovath Towers V, LLC
312 W Colfax Ave, South Bend, IN 46601

or the Executive Director, Public Service Commission,
PO Box 615
Frankfort, KY 40602

Please refer to Docket No. 2019-00117 in any correspondence.



LV Pleasant View - New Build Updated -SARF Map - 07/13/2018

