

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

RECEIVED

In the Matter of:

DEC 05 2018

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 MONTGOMERY)

PUBLIC SERVICE
COMMISSION

CASE NO.: 2018-00402

SITE NAME: HV1326 LV I-64 AND US 60

ORIGINAL

* * * * *

**APPLICATION FOR
CERTIFICATE OF PUBLIC CONVEINCE AND NECESSITY
FOR CONSTRUCTION OF A WIRELESS COMMUNCIATIONS 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 Montgomery County.

6. To accommodate the needs and opportunities described, *supra*, the Applicant proposes to construct a Facility on Owingsville Road in Montgomery County,

Kentucky (coordinates 38° 05' 25.25" N, 83° 53' 55.87" W) on land located wholly within Montgomery County. The property where the Facility is to be located is owned by William Michael and Sherrie Ellen Colliver, pursuant to a Deed recorded in Deed Book 266, Page 272 in the office of Montgomery County Clerk. The Facility will consist of a 265-foot tall, self-supporting tower, with an approximately 10-foot tall lightning arrestor on the top of the Facility, for a total height of 275 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**.

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 Calloway 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 Calloway 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 Montgomery 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 Calloway County.

23. The general area where the facility is to be located is adjacent to Interstate 64 at Exit 113, and is located near industrial businesses.

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.

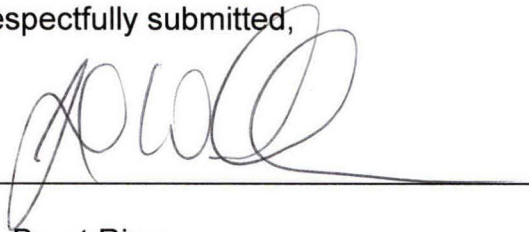
26. All Exhibits are hereby incorporated by reference as if fully set forth herein as part of the Application.

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, McGinnis, Leslie & Kirkland, 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,

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

W. Brent Rice
Jacob C. Walbourn
McBrayer, McGinnis, Leslie & Kirkland, 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

EXHIBIT

A

Delaware

Page 1

The First State

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", is 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
ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

0988137.06
Allison Lundergan Grimes
Kentucky Secretary of State
Received and Filed:
8/13/2017 1:28 PM
Fee Receipt: \$90.00

Division of Business Filings
Business Filings
PO Box 718, Frankfort, KY 40602
(502) 564-3450
www.sos.ky.gov

Certificate of Authority
(Foreign Business Entity)

FBE

Pursuant to the provisions of KRS 14A and KRS 271B, 273, 274, 275, 302 and 388 the undersigned hereby applies for authority to transact business in Kentucky on behalf of the entity named below and, for that purpose, submits the following statements:

- The entity is a:

<input type="checkbox"/> profit corporation (KRS 271B)	<input type="checkbox"/> nonprofit corporation (KRS 273)	<input type="checkbox"/> professional service corporation (KRS 274)
<input type="checkbox"/> business trust (KRS 388)	<input checked="" type="checkbox"/> limited liability company (KRS 275)	<input type="checkbox"/> professional limited liability company (KRS 275)
<input type="checkbox"/> limited partnership (KRS 302)	<input type="checkbox"/> LLC cooperative assoc. (KRS)	<input type="checkbox"/> statutory trust
<input type="checkbox"/> non-profit co. (KRS 275)	<input type="checkbox"/> cooperative assoc. (KRS)	
- The name of the entity is HORVATH TOWERS V. LLC
(The name must be identical to the name on record with the Secretary of State.)
- The name of the entity to be used in Kentucky is (if applicable) _____
(Only provide if "res名称" is available for use; otherwise, leave blank.)
- The state or country under whose law the entity is organized is IN
- The date of organization is 07/12/16 and the period of duration is _____
(If blank, the period of duration is considered perpetual)

6. The mailing address of the entity's principal office is
312 W. Colfax Ave. South Bend IN 46801
 Street Address City State Zip Code

7. The street address of the entity's registered office in Kentucky is
308 West Main Street - Suite 512 Frankfort KY 40601
 Street Address Use P.O. Box Number City State Zip Code

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

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

Name	Street or P.O. Box	City	State	Zip Code
Jacqueline L. Stout	312 West Colfax Ave.	South Bend	IN	46801
F. Howard Mandel	88 West Street	Chargiot Falls	OH	44022

- If a professional service corporation, all the individuals who are shareholders, not less than one-third (1/3) of the directors, and all of the officers other than the secretary and treasurer are located in one or more states or territories of the United States or District of Columbia to receive a professional service delivered in the ordinary course of business.
- I certify that, as of the date of filing this application, the above-named entity validly exists under the laws of the jurisdiction of its formation.
- If a limited partnership, it exists to be a limited liability limited partnership. Check the box if applicable:
- If a limited liability company, check box if manager-managed:
- This application will be effective upon filing, unless a delayed effective date and/or time is provided. The effective date of the delayed effective date cannot be prior to the date the application is filed. The date and/or time is: _____

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

To complete the following, please shade the box completely.

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

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

Please indicate which of the following best describes your business:

<input type="checkbox"/> Agriculture	<input type="checkbox"/> Mining	<input type="checkbox"/> Services	<input type="checkbox"/> Construction
<input type="checkbox"/> Wholesale Trade	<input type="checkbox"/> Retail Trade	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Finance, Insurance, Real Estate
<input type="checkbox"/> Public Administration	<input type="checkbox"/> Transportation, Communications, Electric, Gas, Sanitary Services		

Signature of Authorized Representative: Jacqueline L. Stout, Member Printed Name & Title
 Date: 6-6-17
 I, CT Corporation System consent to serve as the registered agent on behalf of the business entity.
 Signature of Registered Agent: [Signature] Printed Name: CT Corporation System Title: Assistant Secretary Date: 06/17/2017

(05/17)

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.

FCC MARKET NAME	Legacy Company	FCC Radio Service Code	FCC Market Number	FCC Channel Block	FCC Call Sign
Mississippi Valley		AW	REA004	F	WQGA718
Paducah, KY-IL	SpectrumCo-Leap-Cox	AW	BEA072	B	WQGA960
Kentucky 1 - Fulton	W KY Rural TelCo	CL	CMA443	B	KNKQ306
Louisville-Lexington-Evansville	Alltel	CW	MTA026	A	WQBT313
Louisville-Lexington-Evansville	Alltel	CW	MTA026	A	WQBT318
Paducah-Murray-Mayfield, KY	TMO 7.0	CW	BTA339	D	KNLH404
Mississippi Valley	Auction 73	WU	REA004	C	WQJQ692

Licensee Name	Is Licensee Wholly Owned	Is Partnership Signature Required	Type of Entity	FRN
Cellco Partnership	Yes	No	General Partnership	0003290673
Cellco Partnership	Yes	No	General Partnership	0003290673
Kentucky RSA No. 1 Partnership	No	No	General Partnership	0001836709
Alltel Communications, LLC	Yes	No	Limited Liability Company	0018437624
Alltel Communications, LLC	Yes	No	Limited Liability Company	0018437624
Cellco Partnership	Yes	No	General Partnership	0003290673
Cellco Partnership	Yes	No	General Partnership	0003290673

Expired Date	State of Market	VZW Market	VZW Submarket	County State	County FIPS	County Name	Pops per County	Total MHz
Nov 29, 2021 12:00:00 AM		South East	Florida	KY	21035	Calloway	37191	20
Nov 29, 2021 12:00:00 AM	KY			KY	21035	Calloway	37191	20
Oct 1, 2021 12:00:00 AM	KY	Great Lakes	Michigan/Indiana/KY	KY	21035	Calloway	37191	25
Jun 23, 2025 12:00:00 AM	KY	Great Lakes	Michigan/Indiana/KY	KY	21035	Calloway	37191	20
Jun 23, 2025 12:00:00 AM	KY	Great Lakes	Michigan/Indiana/KY	KY	21035	Calloway	37191	10
Apr 28, 2027 12:00:00 AM	KY	Great Lakes	Michigan/Indiana/KY	KY	21035	Calloway	37191	10
Jun 13, 2019 12:00:00 AM				KY	21035	Calloway	37191	22

Frequencies(1)	Frequencies(2)	Frequencies(3)	Frequencies(4)	Comments	Config >50 sq.mi Unlic
1745-1755 / 2145-2155	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0		
1720-1730 / 2120-2130	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0		
835-845 / 880-890	846.5-849 / 891.5-894	0-0 / 0-0	0-0 / 0-0	SCR34995	No
1850-1860 / 1930-1940	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0		
1860-1865 / 1940-1945	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0		
1865-1870 / 1945-1950	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0	PEND583 prior to close.	
746-757 / 776-787	0-0 / 0-0	0-0 / 0-0	0-0 / 0-0		

EXHIBIT

B



312 WEST COLFAX AVE
SOUTH BEND, IN 46601

I-64 & US 60

HV1326
OWINGSVILLE ROAD
MT STERLING, KY 40353
MONTGOMERY COUNTY

TENANT: CELCO PARTNERSHIP d/b/a VERIZON WIRELESS
"LV I-64 AND US 60"

NEW 265' SELF SUPPORT TOWER w/10' LIGHTNING ARRESTOR TOTAL TOWER HEIGHT 275'

FROM MONTGOMERY COUNTY FISCAL COURT: 44 W. MAIN STREET, MT. STERLING KY 40353: HEAD EAST ON US-60 E/W MAIN ST TOWARD BROADWAY ST (3.8 MI). TURN LEFT ONTO WOODLAND LN (0.1 MI). SITE WILL BE LOCATED ON LEFT (EAST) SIDE OF ROAD.

FROM LOUISVILLE MTSO: 2421 HOLLOWAY ROAD LOUISVILLE, KY 40299: GET ON I-64 E FROM PLAINSIDE DR AND BLANKENBAKER PKWY (2.1 MI). FOLLOW I-64 E TO US-60 E IN MONTGOMERY COUNTY. TAKE EXIT 113 FROM I-64 E (94.9 MI). CONTINUE ON US-60 E. DRIVE TO WOODLAND LN (0.4 MI). SITE WILL BE LOCATED ON LEFT (EAST) SIDE OF ROAD.

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

HORVATH COMMUNICATIONS SITE
I-64 & US 60
SITE #: HV1326
VERIZON WIRELESS SITE
LV I-64 AND US 60
PROJECT#: 20181804310
LOCATION CODE: 494628
SITE ADDRESS
OWINGSVILLE ROAD
MT STERLING, KY 40353
MONTGOMERY COUNTY
E911 ADDRESS: TBD
TOWER OWNER
HORVATH COMMUNICATIONS
312 W. COLFAX AVE
SOUTH BEND, IN 46601
CONTACT: JORDAN (FREEZE)
HOEPPNER
PHONE: (574) 237-0464
MOBILE: (574) 217-4357
E-MAIL: FREEZE@HORVATHCOMMUNICATIONS.COM
PROPERTY OWNER
WILLIAM MICHAEL AND
SHERRIE ELLEN COLLIVER
539 E. MAIN STREET
MT. STERLING, KY 40353
CONTACT: SHERRIE ELLEN COLLIVER
PHONE: (859) 497-1082
E-MAIL: MIKECOLLIVER12@YAHOO.COM

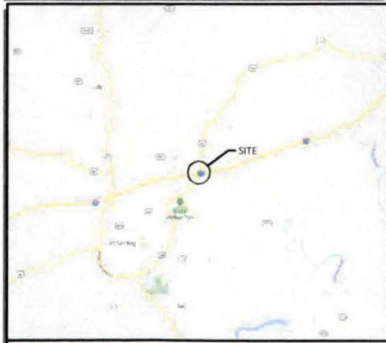
POLICE
MONTGOMERY COUNTY SHERIFF
1 CS-1066 SUITE 4
MT STERLING, KY 40353
PHONE: (859) 498-8704
FIRE
MONTGOMERY COUNTY FIRE/EMS
225 OAK GROVE DR
MT STERLING, KY 40353
PHONE: (859) 497-0120
GENERAL INFORMATION
LATITUDE : 38° 05' 25.25" N
LONGITUDE : 83° 53' 55.87" W
1983 (NAOD83)
ELEVATION : 1,000.00' AMSL
1988 (NAVD88)
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 (VZW GC) WHICH SHALL INCLUDE VERIZON WIRELESS GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. GENERALLY DESCRIBED BELOW:
HORVATH COMMUNICATIONS SCOPE:
• INSTALL A NEW 265' SELF SUPPORT TOWER w/10' LIGHTNING ROD (TOTAL 275')
• INSTALL A NEW TOWER FOUNDATION SYSTEM
• INSTALL A NEW 70'X70' FINCED GRAVEL COMPOUND
• INSTALL A NEW SITE H-FRAME
• INSTALL NEW TOWER LIGHTING AND TOWER LIGHTING CONTROLLER (SUPPLIED BY FLASH TECHNOLOGIES)
• 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 SUBSURFACE GROUNDING SYSTEM
• INSTALL A NEW 11'-0"X18'-6" CONCRETE EQUIPMENT PAD
• INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP WITHIN VZW EQUIPMENT PAD TO UTILITY H-FRAME
• INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC ENCLOSURE STUB-UPS TO EQUIPMENT ENCLOSURE STUB-UPS WITHIN VZW EQUIPMENT PAD
• INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME LIT FIBER LOCATION
• INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM VZW EQUIPMENT TO NEW "VERIZON WIRELESS ONLY" 36" x 60" HAND HOLE OUTSIDE COMPOUND AT R.D.W.
• INSTALL (1) NEW "VERIZON WIRELESS ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE FROM NEW "VERIZON WIRELESS ONLY" 36" x 60" HAND HOLE OUTSIDE COMPOUND AT R.D.W. AND STUB UP AT PROPERTY FIBER PRESTAL LOCATION
• PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY.
VERIZON WIRELESS SCOPE (VZW GC):
• INSTALL A NEW 11'-0"X18'-6" PRE-FABRICATED CANOPY ON EXISTING CONCRETE PAD FOUNDATION
• INSTALL VZW ICE BRIDGE AND FOUNDATIONS
• INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
• INSTALL VZW ANTENNA LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT
• INSTALL EXISTING SUBSURFACE GROUNDING LEADS TO VZW EQUIPMENT & FACILITIES
• INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
• INSTALL CIRCUITS FROM VZW ILC TO VZW EQUIPMENT ENCLOSURES
• INSTALL NEW OUTDOOR OVP AND CABLING H-FRAME SUPPORT
• INSTALL (2) 1/2" & (1) 1/4" INDUCTS 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 TIA/EIA-222 - REVISION 6 (INCLUDES ADDENDUM #2)
MECHANICAL CODE 2012 INTERNATIONAL MECHANICAL CODE (IMC 2012)
PLUMBING CODE KENTUCKY STATE PLUMBING CODE (BSI'S KAN CHAP. 30)
ELECTRICAL CODE 2014 NATIONAL ELECTRICAL CODE (NEC - NFPA 70)
FIRE/LIFE SAFETY CODE 2012 INTERNATIONAL FIRE CODE (2012 IFC)
ENERGY CODE 2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
GAS CODE 2009 NATIONAL FUEL GAS CODE (NFPA 54)
ACCESSIBILITY REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2009 IBC BUILDING CODE.
APPLICABLE CODES
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
KENTUCKY UTILITIES COMPANY
ADDRESS: 209 W LOCUST ST
MT STERLING, KY 40353
CONTACT: TBD
PHONE: (800) 383-5582
EMAIL: TBD
ELECTRICAL UTILITY COORDINATION
IS NOT FINALIZED. DO NOT PROCEED WITH CONSTRUCTION.

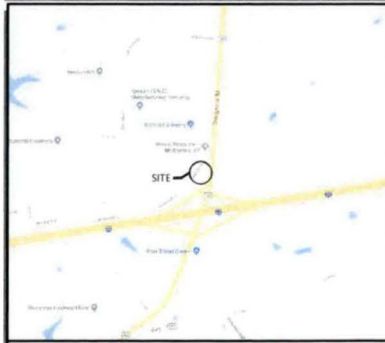
SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
B-1 TO B-1.1	SITE SURVEY
B-2	500' RADIIUS AND ABUTTERS MAP
R-1	REVISION LDG
TOWER ELEVATION	TOWER ELEVATION
TE-1	TOWER ELEVATION
CIVIL	OVERALL SITE PLAN w/AERIAL OVERLAY
C-1	OVERALL SITE PLAN
C-1A	DETAILED SITE PLAN
C-3	DETAILED SITE PLAN
C-4	DIMENSIONED SITE PLAN

PROJECT SUMMARY



VICINITY MAP

PROJECT DESCRIPTION



LOCATION MAP

CONSULTANT TEAM

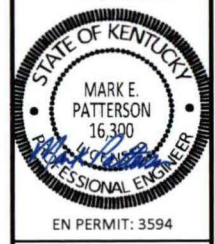


AERIAL



312 WEST COLFAX AVE
SOUTH BEND, IN 46601

11/19/2018



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	11.15.18	ISSUED FOR REVIEW
D	11.19.18	ISSUED AS FINAL

SITE INFORMATION:
I-64 & US 60

OWINGSVILLE ROAD
MT STERLING, KY 40353
MONTGOMERY COUNTY

HORVATH SITE NUMBER:
HV1326

VERIZON WIRELESS SITE NAME:
LV I-64 AND US 60

POD NUMBER: 18-26641
DRAWN BY: POD
CHECKED BY: MEP
DATE: 11.05.18

SHEET TITLE:
PROJECT INFORMATION, SITE MAPS, SHEET INDEX

SHEET NUMBER:
T-1

GENERAL NOTES

NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE 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 0.04', FOR A PRECISION OF 1:41,725 AND HAS NOT BEEN ADJUSTED.

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

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

THE PARENT PARCEL, THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21173C0110D, DATED JANUARY 6, 2011.

GLOBAL POSITIONING SYSTEMS NOTE

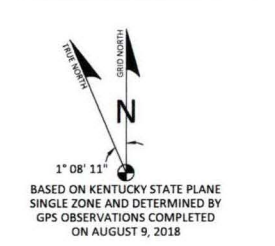
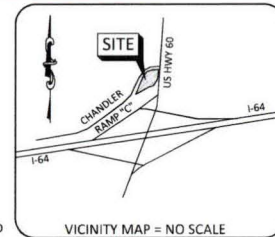
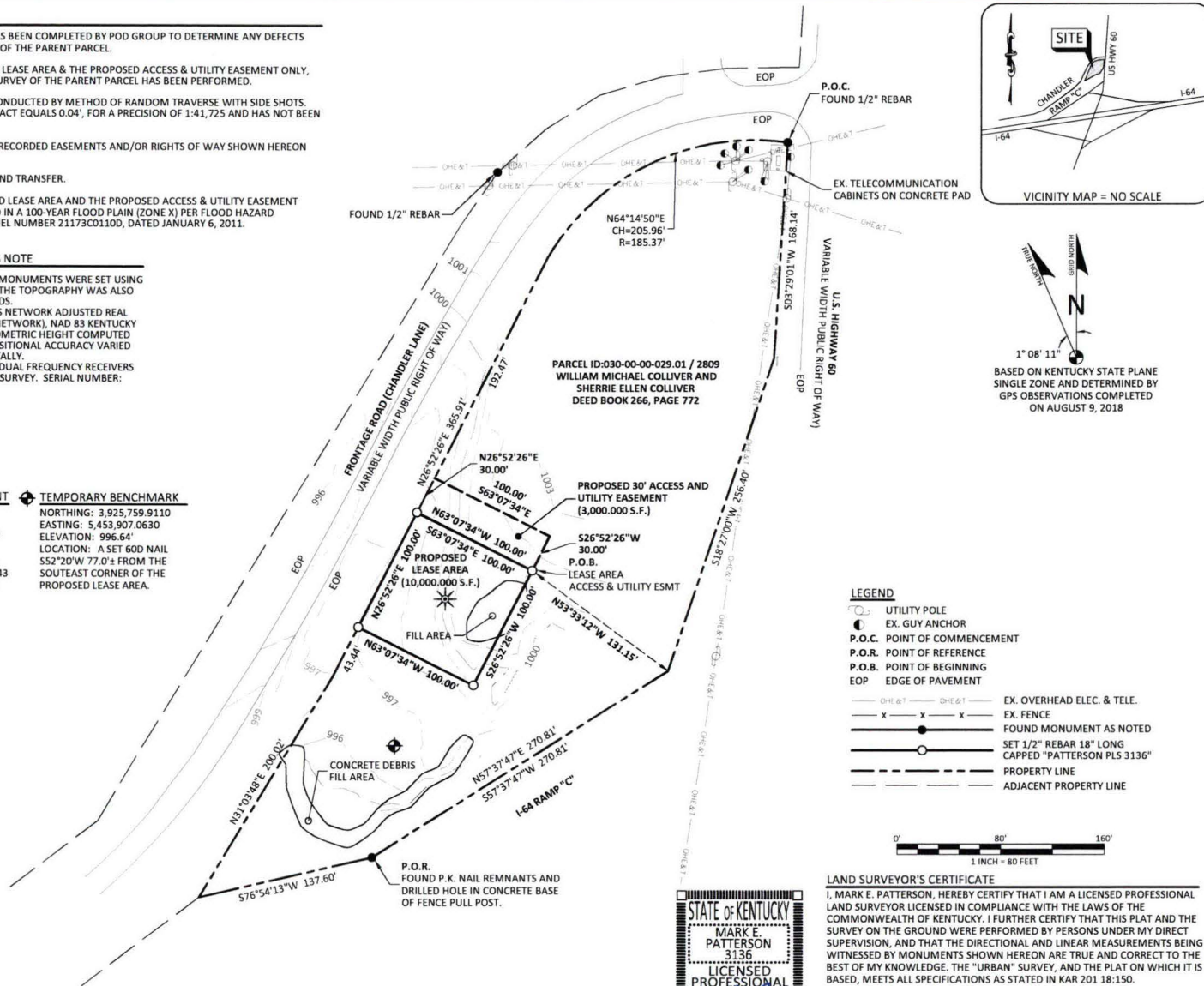
1. RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE TOPOGRAPHY WAS ALSO COLLECTED USING GPS METHODS.
2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KYDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.08' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED CONDUCTING THE SURVEY. SERIAL NUMBER: 532540009

FAA COORDINATE POINT
 NAD 83
 LATITUDE: 38°05'25.25"
 LONGITUDE: 83°53'55.87"
 NAVD 88
 ELEVATION: 1000 ± AMSL
 NORTHING: 3,925,874.1743
 EASTING: 5,453,946.0212

TEMPORARY BENCHMARK
 NORTHING: 3,925,759.9110
 EASTING: 5,453,907.0630
 ELEVATION: 996.64'
 LOCATION: A SET 60D NAIL 552°20'W 77.0'± FROM THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA.

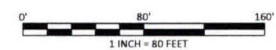


Call before you dig.
 1-800-752-6007
 PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO REFRUSE WITHOUT JUSTIFYING THE DISOBLIGATION LOCAL SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.



LEGEND

	UTILITY POLE		EX. OVERHEAD ELEC. & TELE.
	EX. GUY ANCHOR		EX. FENCE
	P.O.C. POINT OF COMMENCEMENT		FOUND MONUMENT AS NOTED
	P.O.R. POINT OF REFERENCE		SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
	P.O.B. POINT OF BEGINNING		PROPERTY LINE
	EOP EDGE OF PAVEMENT		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 E. Patterson
 MARK PATTERSON, PLS 3136
 11/19/2018
 DATE



312 WEST COLFAX AVE
 SOUTH BEND, IN 46601
 574.237.0464

SURVEY

REV.	DATE	DESCRIPTION
A	8.13.18	PRELIMINARY ISSUE
B	10.19.18	TITLE REVIEW
D	11.19.18	ISSUED AS FINAL

SITE INFORMATION:
 I-64 & US 60
 OWINGSVILLE ROAD
 MT STERLING, KY 40353
 MONTGOMERY COUNTY
 TAX PARCEL NUMBER:
 030-00-00-029.01 / 2809
 PROPERTY OWNER:
 WILLIAM MICHAEL COLLIVER AND
 SHERRIE ELLEN COLLIVER
 1300 COUNTRY MEADOWS
 MT STERLING, KY 40353
 SOURCE OF TITLE:
 DEED BOOK 266, PAGE 772

SITE NUMBER:
 HV1326
VERIZON WIRELESS SITE NAME:
 LV I-64 AND US 60

POD NUMBER: 18-26636
DRAWN BY: TMD
CHECKED BY: MEP
SURVEY DATE: 8.09.18
PLAT DATE: 8.13.18

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

SHEET NUMBER: (2 pages)
B-1

LEGAL DESCRIPTIONS

PROPOSED LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, 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 AUGUST 9, 2018.

COMMENCING AT A FOUND 1/2" REBAR IN THE NORTHEASTERN MOST BOUNDARY CORNER OF THE PARCEL CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, SAID POINT BEING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60 AND SOUTH RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, 503'29'01"W 168.14; THENCE S18°27'00"W 256.40'; SAID POINT BEING REFERENCED BY FOUND P.K. NAIL REMNANTS AND DRILLED HOLE IN CONCRETE BASE OF FENCE PULL POST; THENCE LEAVING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, TRAVERSING ACROSS THE LAND OF COLLIVER AFOREMENTIONED, N53°33'12"W 131.15' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE S26°52'26"W 100.00' TO A SET IPC; THENCE N63°07'34"W 100.00' TO A SET IPC IN THE EAST RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE COMMON LINE OF COLLIVER AND THE RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE), N26°52'26"E 100.00' TO A SET IPC; THENCE LEAVING SAID COMMON LINE, TRAVERSING ACROSS THE LAND OF COLLIVER, S63°07'34"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 9, 2018.

PROPOSED 30' ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED 30' ACCESS & UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, 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 AUGUST 9, 2018.

COMMENCING AT A FOUND 1/2" REBAR IN THE NORTHEASTERN MOST BOUNDARY CORNER OF THE PARCEL CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, SAID POINT BEING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60 AND SOUTH RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, 503'29'01"W 168.14; THENCE S18°27'00"W 256.40'; SAID POINT BEING REFERENCED BY FOUND P.K. NAIL REMNANTS AND DRILLED HOLE IN CONCRETE BASE OF FENCE PULL POST; THENCE LEAVING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, TRAVERSING ACROSS THE LAND OF COLLIVER AFOREMENTIONED, N53°33'12"W 131.15' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE ALONG THE NORTH LINE OF SAID LEASE AREA, N63°07'34"W 100.00' TO A SET IPC IN THE EAST RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE COMMON LINE OF COLLIVER AND THE RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE), N26°52'26"E 30.00'; THENCE LEAVING SAID COMMON LINE, TRAVERSING ACROSS THE LAND OF COLLIVER, S63°07'34"E 100.00'; THENCE S26°52'26"W 30.00' TO THE POINT OF BEGINNING CONTAINING 3,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 9, 2018.

PARENT PARCEL LEGAL DESCRIPTION DEED BOOK 266, PAGE 772 (NOT FIELD SURVEYED)

BEING ALL OF TRACT NO. 4 AS MORE PARTICULARLY SHOWN AND DESCRIBED ON THE RECORD PLAT OF LONGWOOD FARM, MONTGOMERY COUNTY, KENTUCKY, WHICH PLAT IS OF RECORD IN PLAT CABINET A, SLIDE 49A, MONTGOMERY COUNTY COURT CLERK'S OFFICE, TO WHICH PLAT REFERENCE IS HEREBY MADE FOR A PARTICULAR DESCRIPTION OF THE PROPERTY HEREBY CONVEYED.

TITLE OF COMMITMENT

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. 61248-KY1808-5030, REFERENCE NUMBER HV1326, DATED OCTOBER 8, 2018. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID REPORT.

SCHEDULE B

1. TAXES, TAX LIENS, TAX SALES, WATER RATES, SEWER AND ASSESSMENTS SET FORTH IN SCHEDULE HEREIN (NOT A LAND SURVEYING MATTER, THEREFORE POD GROUP, LLC DID NOT ADDRESS OR EXAMINE THIS ITEM.)
2. MORTGAGES RETURNED HEREIN (1). SEE SEPARATE MORTGAGE SCHEDULE BELOW
3. 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.)
4. 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)

5. (NONE WITHIN PERIOD SEARCHED)

(COVENANTS/RESTRICTIONS)

6. (NONE WITHIN PERIOD SEARCHED)

(EASEMENTS AND RIGHTS OF WAY)

7. RIGHT OF WAY BY GAGER GATEWOOD AND SARAH B. GATEWOOD TO SOUTH CENTRAL BELL TELEPHONE COMPANY, DATED 8/4/1977 RECORDED 8/4/1977 IN BOOK 138 PAGE 451. (EASEMENT AS DESCRIBED IN BOOK 138, PAGE 451 DOES NOT AFFECT THE PARENT PARCEL, THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT.)

(MORTGAGE SCHEDULE)

1. MORTGAGE MADE BY WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER, HIS WIFE TO PEOPLES EXCHANGE BANK IN THE SUM OF \$75,296.00 DATED AS OF 9/8/2005 RECORDED 9/9/2005 IN BOOK 352, PAGE 1. (MORTGAGE AS DESCRIBED IN BOOK 352, PAGE 1 HAS A MATURITY DATE OF SEPTEMBER 8, 2006, MODIFIED MARCH 15, 2018 BY M551, PAGE 859 WHICH EXTENDS THE MATURITY DATE TO MARCH 15, 2020, THEREFORE SAID MORTGAGE AFFECTS THE PARENT PARCEL, THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT.)

LAND SURVEYOR'S CERTIFICATE

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "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
11/19/2018
DATE



312 WEST COLFAX AVE
SOUTH BEND, IN 46601
574.237.0464

SURVEY

REV.	DATE	DESCRIPTION
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SITE INFORMATION:

I-64 & US 60
OWINGSVILLE ROAD
MT STERLING, KY 40353
MONTGOMERY COUNTY
TAX PARCEL NUMBER:
030-00-00-029.01 / 2809
PROPERTY OWNER:
WILLIAM MICHAEL COLLIVER AND
SHERRIE ELLEN COLLIVER
1300 COUNTRY MEADOWS
MT STERLING, KY 40353
SOURCE OF TITLE:
DEED BOOK 266, PAGE 772

SITE NUMBER:
HV1326

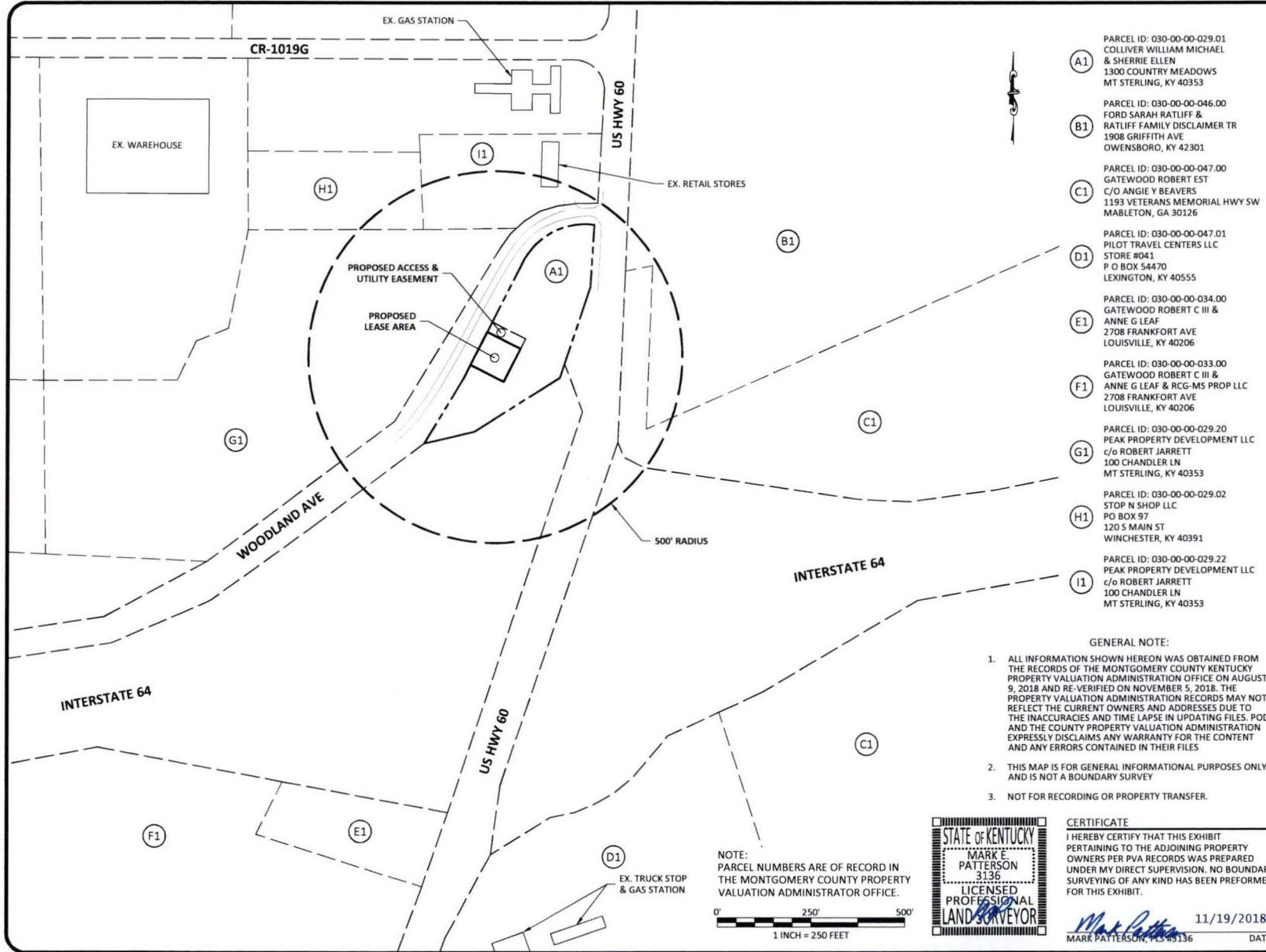
VERIZON WIRELESS SITE NAME:
LV I-64 AND US 60

POD NUMBER: 18-26636
DRAWN BY: TMD
CHECKED BY: MEP
SURVEY DATE: 8.09.18
PLAT DATE: 8.13.18

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

SHEET NUMBER: (2 pages)

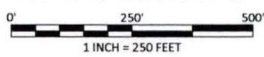
B-1.1



- (A1) PARCEL ID: 030-00-00-029.01
COLLIVER WILLIAM MICHAEL & SHERRIE ELLEN
1300 COUNTRY MEADOWS
MT STERLING, KY 40353
- (B1) PARCEL ID: 030-00-00-046.00
FORD SARAH RATLIFF & RATLIFF FAMILY DISCLAIMER TR
1908 GRIFFITH AVE
OWENSBORO, KY 42301
- (C1) PARCEL ID: 030-00-00-047.00
GATEWOOD ROBERT EST
C/O ANGIE Y BEAVERS
1193 VETERANS MEMORIAL HWY SW
MAPLETON, GA 30126
- (D1) PARCEL ID: 030-00-00-047.01
PILOT TRAVEL CENTERS LLC
STORE #041
P O BOX 54470
LEXINGTON, KY 40555
- (E1) PARCEL ID: 030-00-00-034.00
GATEWOOD ROBERT C III & ANNE G LEAF
2708 FRANKFORT AVE
LOUISVILLE, KY 40206
- (F1) PARCEL ID: 030-00-00-033.00
GATEWOOD ROBERT C III & ANNE G LEAF & RCG-MS PROP LLC
2708 FRANKFORT AVE
LOUISVILLE, KY 40206
- (G1) PARCEL ID: 030-00-00-029.20
PEAK PROPERTY DEVELOPMENT LLC
c/o ROBERT JARRETT
100 CHANDLER LN
MT STERLING, KY 40353
- (H1) PARCEL ID: 030-00-00-029.02
STOP N SHOP LLC
PO BOX 97
120 S MAIN ST
WINCHESTER, KY 40391
- (I1) PARCEL ID: 030-00-00-029.22
PEAK PROPERTY DEVELOPMENT LLC
c/o ROBERT JARRETT
100 CHANDLER LN
MT STERLING, KY 40353


- GENERAL NOTE:**
1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE MONTGOMERY COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON AUGUST 9, 2018 AND RE-VERIFIED ON NOVEMBER 5, 2018. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
 2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
 3. NOT FOR RECORDING OR PROPERTY TRANSFER.

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




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

Mark Patterson 11/19/2018
MARK PATTERSON, PLS #3136 DATE



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



312 WEST COLFAX AVE
SOUTH BEND, IN 46601
574.237.0464

EXHIBIT

REV.	DATE	DESCRIPTION
A	11.5.18	ISSUED FOR REVIEW
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SITE INFORMATION:
I-64 & US 60
OWINGSVILLE ROAD
MT STERLING, KY 40353
MONTGOMERY COUNTY
TAX PARCEL NUMBER:
030-00-00-029.01 / 2809
PROPERTY OWNER:
WILLIAM MICHAEL COLLIVER AND
SHERRIE ELLEN COLLIVER
1300 COUNTRY MEADOWS
MT STERLING, KY 40353
SOURCE OF TITLE:
DEED BOOK 266, PAGE 772

SITE NUMBER:
HV1326

VERIZON WIRELESS SITE NAME:
LV I-64 AND US 60

POD NUMBER: 18-26638
DRAWN BY: CPM
CHECKED BY: MEP
SURVEY DATE: 8.09.18
PLAT DATE: 11.5.18

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

SHEET NUMBER: (1 page)
B-2

REVISION LOG

REV *	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	11/15/2018	ALL SHEETS	ISSUED FOR REVIEW
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11/19/2018



ZONING DRAWINGS

REV.	DATE	DESCRIPTION
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SITE INFORMATION:
I-64 & US 60

OWINGSVILLE ROAD
MT STERLING, KY 40353
MONTGOMERY COUNTY

HORVATH SITE NUMBER:
HV1326

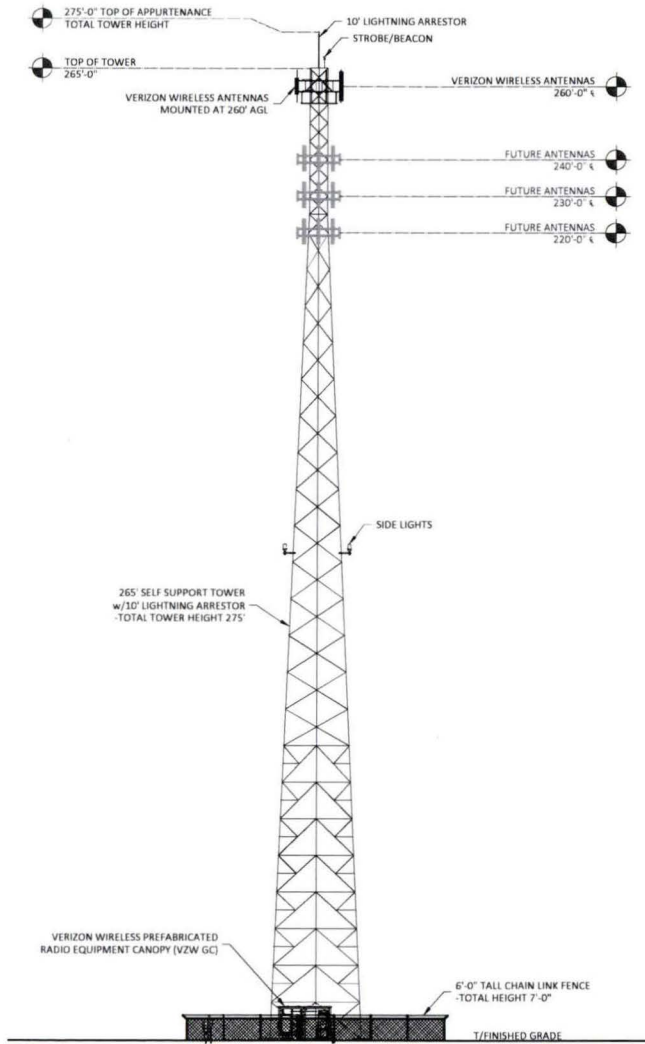
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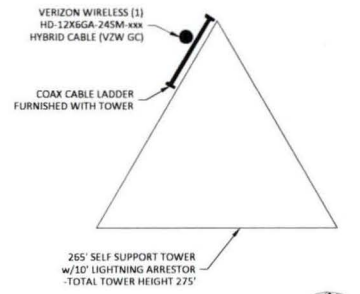
SHEET TITLE:

REVISION LOG

SHEET NUMBER:
R-1




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




COAX PLAN
SCALE: N.T.S.
N

NOTE:

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




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



312 WEST COLFAX AVE
SOUTH BEND, IN 46601

11/19/2018



EN PERMIT: 3594

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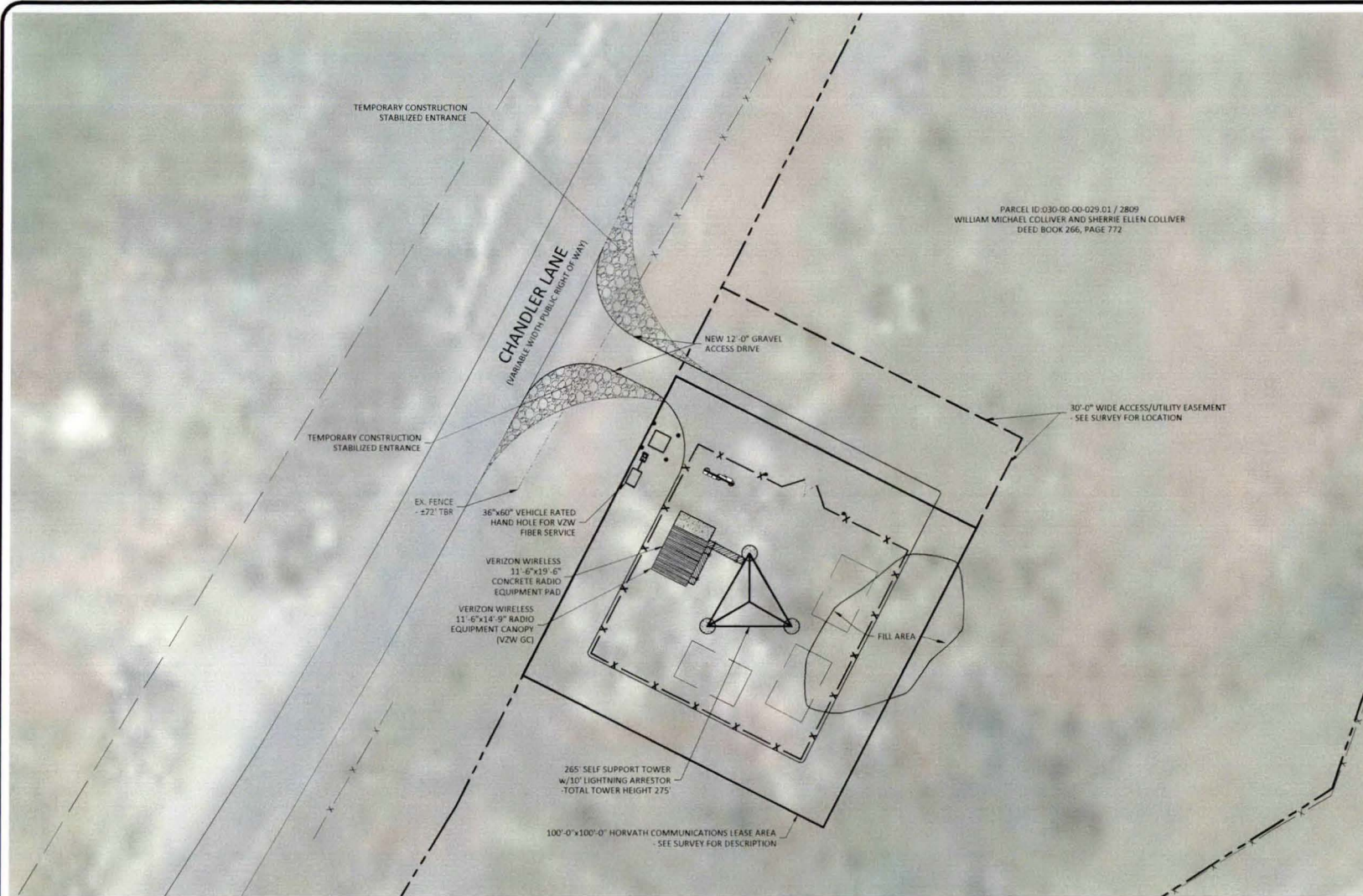
HORVATH SITE NUMBER:
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VERIZON WIRELESS SITE NAME:
LV I-64 AND US 60

POD NUMBER: 18-26641
DRAWN BY: POD
CHECKED BY: MEP
DATE: 11.05.18

SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER:
TE-1



11/19/2018

EN PERMIT: 3594

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 MT STERLING, KY 40353
 MONTGOMERY COUNTY

HORVATH SITE NUMBER:
HV1326

VERIZON WIRELESS SITE NAME:
LV I-64 AND US 60

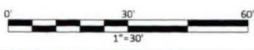
POD NUMBER: 18-26641
 DRAWN BY: POD
 CHECKED BY: MEP
 DATE: 11.05.18

SHEET TITLE:
OVERALL SITE PLAN W/AERIAL OVERLAY

SHEET NUMBER:
C-1

LEGEND

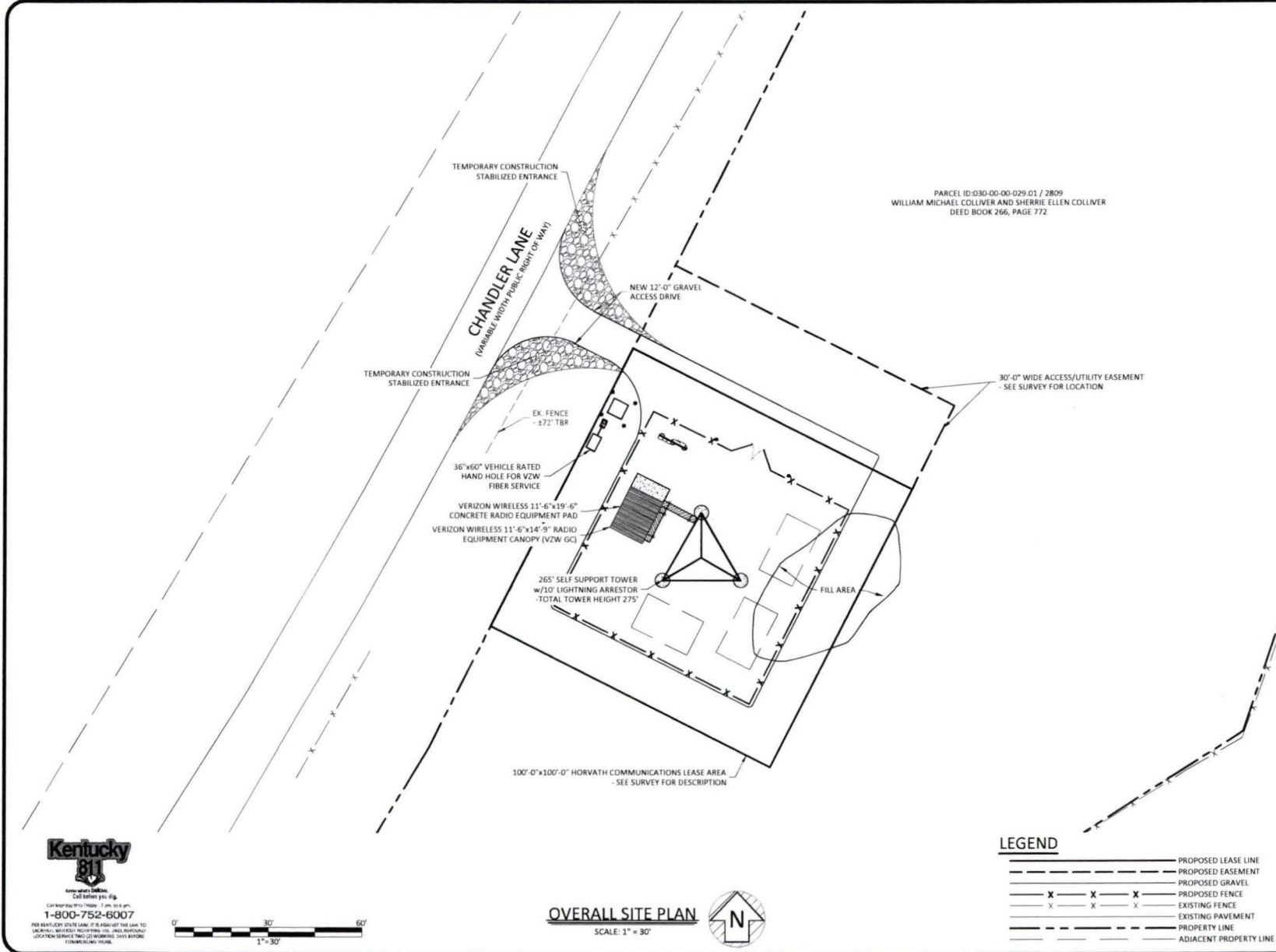
- PROPOSED LEASE LINE
- - - PROPOSED EASEMENT
- PROPOSED GRAVEL
- x-x-x- PROPOSED FENCE
- x-x-x- EXISTING FENCE
- - - EXISTING PAVEMENT
- - - PROPERTY LINE
- - - ADJACENT PROPERTY LINE



OVERALL SITE PLAN W/AERIAL OVERLAY

SCALE: 1" = 30'





PARCEL ID:030-00-00-029.01 / 2809
WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER
DEED BOOK 266, PAGE 772



312 WEST COLFAX AVE
SOUTH BEND, IN 46601

11/19/2018



EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	11.15.18	ISSUED FOR REVIEW
D	11.19.18	ISSUED AS FINAL

SITE INFORMATION:

I-64 & US 60

DWINGSVILLE ROAD
MT STERLING, KY 40353
MONTGOMERY COUNTY

HORVATH SITE NUMBER:
HV1326

VERIZON WIRELESS SITE NAME:
LV I-64 AND US 60

POD NUMBER: 18-26641

DRAWN BY: POD
CHECKED BY: MEP
DATE: 11.05.18

SHEET TITLE:

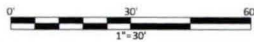
OVERALL SITE PLAN

SHEET NUMBER:

C-1A



Call before you dig.
Call before you dig.
Call before you dig.
1-800-752-6007
FOR SERVICE CENTER, IF BEHIND THE LINE, TO
OBTAIN A SERVICE LINE, CALL 800-752-6007
LOCATION SERVICE TWO (2) WORKING DAYS BEFORE
CONSTRUCTION BEGINS.



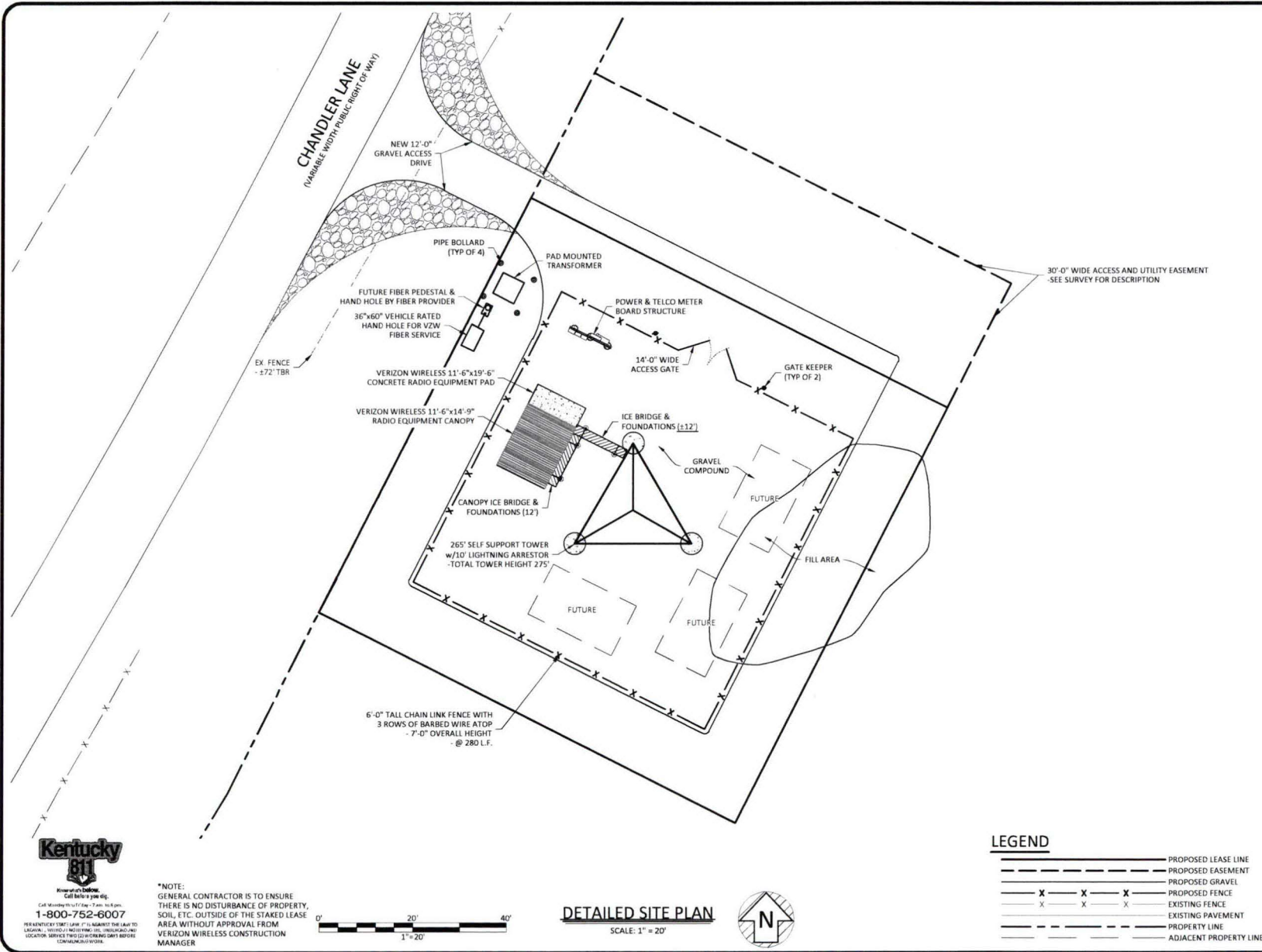
OVERALL SITE PLAN


SCALE: 1" = 30'




LEGEND

- PROPOSED LEASE LINE
- - - PROPOSED EASEMENT
- - - PROPOSED GRAVEL
- x - x - x PROPOSED FENCE
- x - x - x EXISTING FENCE
- - - EXISTING PAVEMENT
- - - PROPERTY LINE
- - - ADJACENT PROPERTY LINE






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



312 WEST COLFAX AVE
SOUTH BEND, IN 46601

11/19/2018



MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER

EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	11.15.18	ISSUED FOR REVIEW
D	11.19.18	ISSUED AS FINAL

SITE INFORMATION:
I-64 & US 60

OWINGSVILLE ROAD
MT STERLING, KY 40353
MONTGOMERY COUNTY

HORVATH SITE NUMBER:
HV1326

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LV I-64 AND US 60

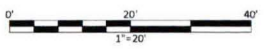
POD NUMBER: 18-26641
DRAWN BY: POD
CHECKED BY: MEP
DATE: 11.05.18

SHEET TITLE:
DETAILED SITE PLAN

SHEET NUMBER:
C-3

Kentucky
Engineering & Construction
Call Monday thru Friday 7 am to 6 pm
1-800-752-6007
FOR ESTIMATES, CONTRACTS, PERMITS, AND ALL OTHER SERVICES, CONTACT US AT 1-800-752-6007
LOCATIONS: 1000 W. MARKET STREET, SUITE 100, COVINGTON, KY 40301

***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

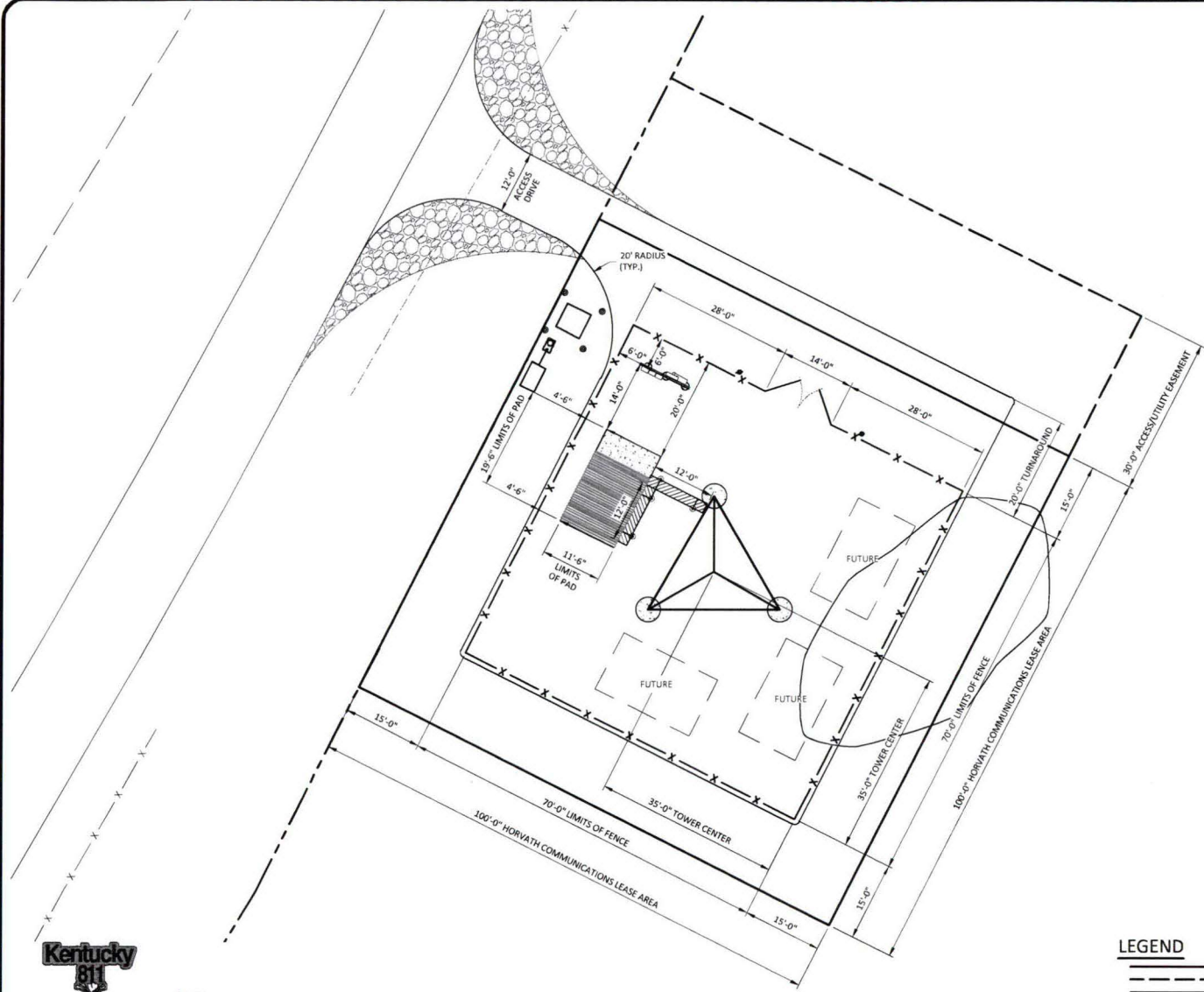


DETAILED SITE PLAN
SCALE: 1" = 20'



LEGEND

	PROPOSED LEASE LINE
	PROPOSED EASEMENT
	PROPOSED GRAVEL
	PROPOSED FENCE
	EXISTING FENCE
	EXISTING PAVEMENT
	PROPERTY LINE
	ADJACENT PROPERTY LINE



ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	11.15.18	ISSUED FOR REVIEW
D	11.19.18	ISSUED AS FINAL

SITE INFORMATION:
I-64 & US 60

OWINGSVILLE ROAD
MT STERLING, KY 40353
MONTGOMERY COUNTY

HORVATH SITE NUMBER:
HV1326

VERIZON WIRELESS SITE NAME:
LV I-64 AND US 60

POD NUMBER: 18-26641

DRAWN BY: POD
CHECKED BY: MEP
DATE: 11.05.18

SHEET TITLE:

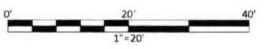
DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4



1-800-752-6007
FOR A LIST OF SERVICE PROVIDERS, VISIT www.ky811.com
OR CALL 811 FROM ANY PHONE

*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 PROPOSED FENCE
- x - x - x EXISTING FENCE
- - - EXISTING PAVEMENT
- - - PROPERTY LINE
- - - ADJACENT PROPERTY LINE

EXHIBIT

C

LIKELY COMPETITORS FOR PROPOSED FACILITY

Note: Competitors are identified as those owning towers in general vicinity.

Entity	Reason
Montgomery County Fire Department	Owens tower in Montgomery County
Global Tower, LLC	Owens tower in Montgomery County
American Towers, LLC	Owens tower in Montgomery County
Commonwealth of Kentucky	Owens tower in Montgomery County
CCATT, LLC	Owens towers (3) in Montgomery County
City of Mt. Sterling Police Dept.	Owens tower in Montgomery County
Garrett Communications, Inc.	Owens tower in Montgomery County
Gateway Radio Works, Inc.	Owens tower in Montgomery County
Crown Communications, LLC	Owens tower in Montgomery County
Crown Castle PT, Inc.	Owens tower in Bath County near Montgomery County line
Cellco Partnership	Owens tower in Montgomery County
SBA Towers III, LLC	Owens tower in Montgomery County

KY Public Service Commission

Master Utility Search

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

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

	Utility ID	Utility Name	Utility Type	Class	City	State
View	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	C	San Francisco	CA
View	4107900	365 Wireless, LLC	Cellular	D	Atlanta	GA
View	4109300	Access Point, Inc.	Cellular	D	Cary	NC
View	4108300	Air Voice Wireless, LLC	Cellular	A	Bloomfield Hill	MI
View	4110650	Alliant Technologies of KY, L.L.C.	Cellular	D	Morristown	NJ
View	44451184	Alltel Communications, LLC	Cellular	A	Basking Ridge	NJ
View	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
View	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	OH
View	4108650	AmeriMex Communications Corp.	Cellular	D	Dunedin	FL
View	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
View	4110700	Andrew David Balholm dba Norcell	Cellular	D	Clayton	WA
View	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
View	4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
View	4108750	Blue Jay Wireless, LLC	Cellular	C	Carrollton	TX
View	4111050	BlueBird Communications, LLC	Cellular	C	New York	NY
View	4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY
View	4107600	Boomerang Wireless, LLC	Cellular	B	Hiawatha	IA

View	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
View	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4106600	Cintex Wireless, LLC	Cellular	D	Rockville	MD
View	4111150	Comcast OTR1, LLC	Cellular	D	Philadelphia	PA
View	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4106400	Credo Mobile, Inc.	Cellular	B	San Francisco	CA
View	4108850	Cricket Wireless, LLC	Cellular	D	San Antonio	TX
View	10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	KY
View	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
View	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
View	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
View	4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
View	4105900	Flash Wireless, LLC	Cellular	C	Concord	NC
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Oak Hill	VA
View	4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
View	4102200	Globalstar USA, LLC	Cellular	B	Covington	LA
View	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	4106000	GreatCall, Inc. d/b/a Jitterbug	Cellular	A	San Diego	CA
View	10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4103100	i-Wireless, LLC	Cellular	A	Newport	KY
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Tulsa	OK
View	22215360	KDDI America, Inc.	Cellular	D	New York	NY
View	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
View	10680	Kentucky RSA #3 Cellular General	Cellular	A	Elizabethtown	KY
View	10681	Kentucky RSA #4 Cellular General	Cellular	A	Elizabethtown	KY
View	4109750	Konatel, Inc. dba telecom.mobi	Cellular	D	Johnstown	PA
View	4111250	Liberty Mobile Wireless, LLC	Cellular	C	Sunny Isles Beach	
View	4111400	Locus Telecommunications, LLC	Cellular	C	Fort Lee	NJ
View	4110900	Lunar Labs, Inc.	Cellular	D	Detroit	MI
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA

View	4109650	Mitel Cloud Services, Inc.	Cellular	D	Mesa	AZ
View	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
View	10900	New Par dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
View	4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS
View	4001800	OnStar, LLC	Cellular	A	Detroit	MI
View	4110750	Onvoy Spectrum, LLC	Cellular	D	Plymouth	MN
View	4109050	Patriot Mobile LLC	Cellular	D	Southlake	TX
View	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
View	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
View	4202100	Powertel/Memphis, Inc. dba T- Mobile	Cellular	A	Bellevue	WA
View	4107700	Puretalk Holdings, LLC	Cellular	A	Covington	GA
View	4111350	Q LINK MOBILE LLC	Cellular	C	Dania Beach	FL
View	4106700	Q Link Wireless, LLC	Cellular	B	Dania	FL
View	4108700	Ready Wireless, LLC	Cellular	B	Hiawatha	IA
View	4110500	Republic Wireless, Inc.	Cellular	D	Raleigh	NC
View	4111100	ROK Mobile, Inc.	Cellular	C	Culver City	CA
View	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	D	Los Angeles	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Freemont	NE
View	4106300	SI Wireless, LLC	Cellular	A	Carbondale	IL
View	4110150	Spectrotel, Inc. d/b/a Touch Base Communications	Cellular	D	Neptune	NJ
View	4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
View	4200500	SprintCom, Inc.	Cellular	A	Atlanta	GA
View	4109550	Stream Communications, LLC	Cellular	D	Dallas	TX
View	4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular	D	Red Bluff	CA
View	4202200	T-Mobile Central, LLC dba T- Mobile	Cellular	A	Bellevue	WA
View	4002500	TAG Mobile, LLC	Cellular	D	Carrollton	TX
View	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	South Portland	ME
View	4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
View	4108900	Telrite Corporation	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	D	Atlanta	GA
View	4109950	The People's Operator USA, LLC	Cellular	D	New York	NY
View	4109000	Ting, Inc.	Cellular	A	Toronto	ON

View	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
View	4103300	Touchtone Communications, Inc.	Cellular	D	Whippany	NJ
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4002000	Truphone, Inc.	Cellular	D	Durham	NC
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	D	Costa Mesa	CA
View	4105700	Virgin Mobile USA, L.P.	Cellular	A	Atlanta	GA
View	4110800	Visible Service LLC	Cellular	D	Lone Tree	CO
View	4106500	WiMacTel, Inc.	Cellular	D	Palo Alto	CA
View	4110950	Wing Tel Inc.	Cellular	D	New York	NY
View	4109900	Wireless Telecom Cooperative, Inc. dba theWirelessFreeway	Cellular	D	Louisville	KY

MONTGOMERY COUNTY, KENTUCKY

HORVATH COMMUNICATIONS SITE NAME: I-64 & US 60
 VERIZON WIRELESS SITE NAME: LV I-64 AND US 60



312 WEST COLFAX AVE
 SOUTH BEND, IN 46601
 574.237.0464

EXHIBIT

REV.	DATE	DESCRIPTION
A	11.6.18	ISSUED FOR REVIEW

SITE INFORMATION:
I-64 & US 60
 OWINGSVILLE ROAD
 MT STERLING, KY 40353
 MONTGOMERY COUNTY
TAX PARCEL NUMBER:
 030-00-00-029.01 / 2809
PROPERTY OWNER:
 WILLIAM MICHAEL COLLIVER AND
 SHERRIE ELLEN COLLIVER
 1300 COUNTRY MEADOWS
 MT STERLING, KY 40353
SOURCE OF TITLE:
 DEED BOOK 266, PAGE 772

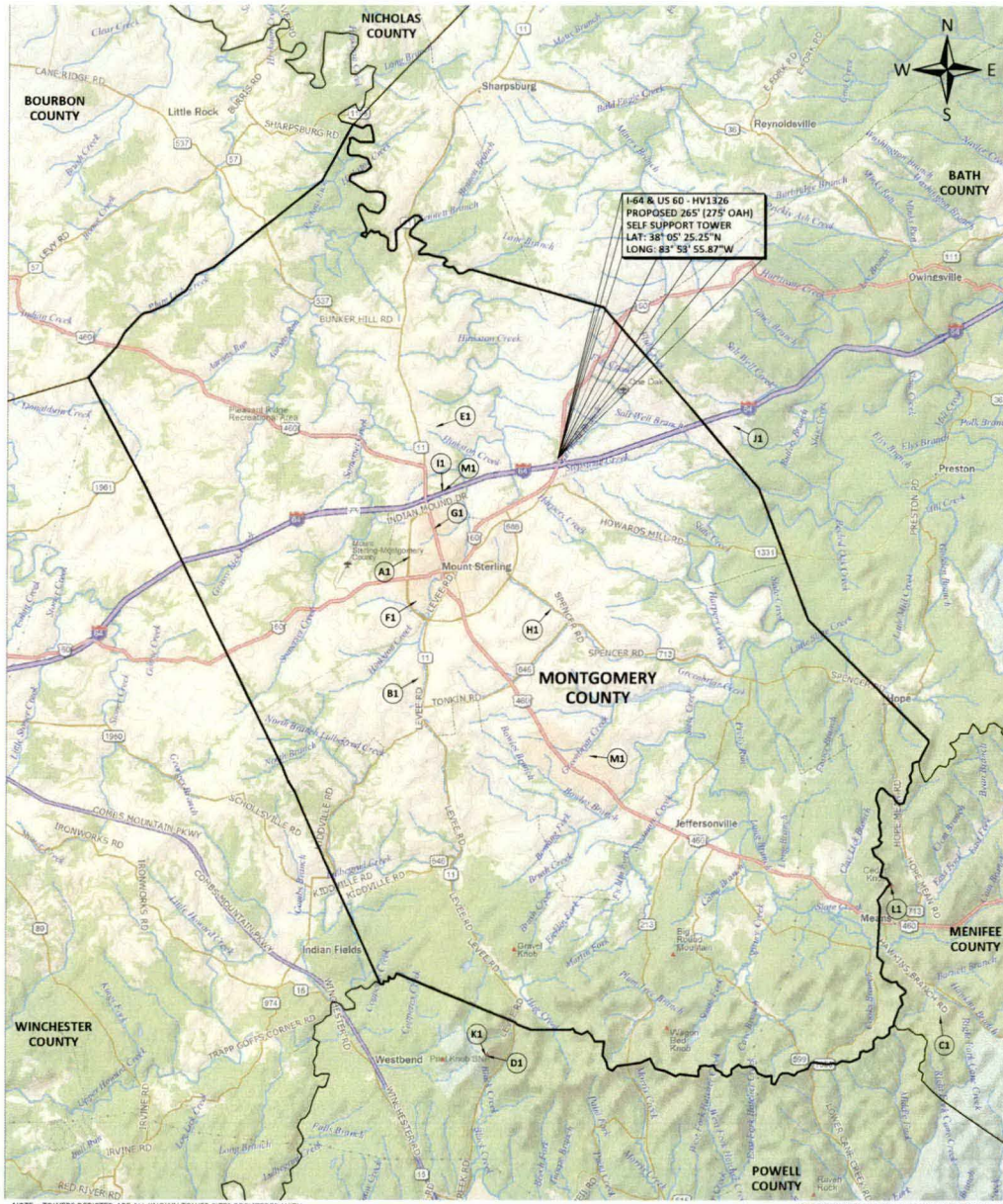
SITE NUMBER:
 HV1326

VERIZON WIRELESS SITE NAME:
 LV I-64 AND US 60

POD NUMBER: 18-26639
DRAWN BY: DAP
CHECKED BY: MEP
SURVEY DATE: 8.09.18
PLAT DATE: 11.6.18

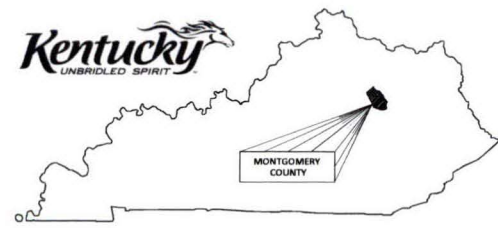
SHEET TITLE:
 TOWER GRID MAP

SHEET NUMBER: (1 page)
C-1



EXISTING TOWER LEGEND

- | | |
|--|---|
| A1 FCC REGISTRATION #: 1028149
MONTGOMERY COUNTY FIRE DEPARTMENT
LAT: 38° 03' 30.0\"W
LONG: 83° 57' 20.0\"W | H1 FCC REGISTRATION #: 1219934
GATEWAY RADIO WORKS, INC.
LAT: 38° 02' 41.0\"W
LONG: 83° 54' 05.0\"W |
| B1 FCC REGISTRATION #: 1042213
GLOBAL TOWER, LLC
Through AMERICAN TOWERS, LLC
LAT: 38° 01' 28.0\"W
LONG: 83° 57' 08.0\"W | I1 FCC REGISTRATION #: 1220054
CROWN COMMUNICATIONS, LLC
LAT: 38° 04' 51.2\"N
LONG: 83° 56' 35.4\"W |
| C1 FCC REGISTRATION #: 1043454
AMERICAN TOWERS, LLC
LAT: 37° 55' 16.8\"W
LONG: 83° 45' 03.5\"W | J1 FCC REGISTRATION #: 1228060
CROWN CASTLE PT, INC.
LAT: 38° 06' 02.8\"W
LONG: 83° 49' 52.9\"W |
| D1 FCC REGISTRATION #: 1044850
COMMONWEALTH OF KENTUCKY dba =
KY EMERGENCY WARNING SYSTEM KEWS
LAT: 37° 54' 33.0\"N
LONG: 83° 55' 32.0\"W | K1 FCC REGISTRATION #: 1245218
CCATT, LLC
LAT: 37° 54' 33.3\"N
LONG: 83° 55' 30.7\"W |
| E1 FCC REGISTRATION #: 1059771
CCATT, LLC
LAT: 38° 06' 01.6\"N
LONG: 83° 56' 44.2\"W | L1 FCC REGISTRATION #: 1252133
CCATT, LLC
LAT: 37° 57' 38.2\"N
LONG: 83° 46' 12.6\"W |
| F1 FCC REGISTRATION #: 1203262
CITY OF MT. STERLING POLICE DEPT.
LAT: 38° 02' 50.2\"N
LONG: 83° 57' 10.7\"W | M1 FCC REGISTRATION #: 1255637
CELCO PARTNERSHIP
LAT: 38° 04' 50.6\"N
LONG: 83° 56' 33.2\"W |
| G1 FCC REGISTRATION #: 1207538
GARRETT COMMUNICATIONS, INC.
LAT: 38° 04' 10.2\"N
LONG: 83° 56' 46.7\"W | N1 FCC REGISTRATION #: 1259550
SRA TOWERS HI, LLC
LAT: 38° 00' 01.1\"N
LONG: 83° 53' 10.6\"W |



NOTE: TOWERS DEPICTED ARE ALL KNOWN TOWER SITES REGISTERED WITH THE FEDERAL COMMUNICATIONS COMMISSION IN MONTGOMERY COUNTY, KENTUCKY.
 USGS 7.5 MINUTE QUADRANGLE: MOUNT STERLING, KY

EXHIBIT

D



1 Fairholm Avenue
Peoria, IL 61603 USA
Phone 309-566-3000
FAX 309-566-3079

November 30, 2018

Horvath Communications
Attn: Jeff Delauder
312 N Colfax Ave
South Bend, IN 46601

Reference: 265 FT RT SELF SUPPORT TOWER
HV1326 I-64 & US 60, KENTUCKY

File Number: 228456

Enclosed, please find the following for your use:

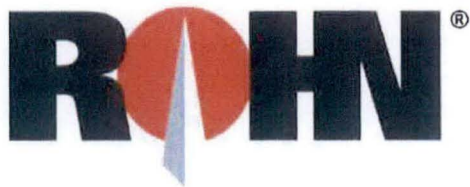
<u>Copies</u>	<u>Drawing Number</u>	<u>Description</u>
1	228456-01-D1	Design Drawing Sealed for the State of KENTUCKY
1	228456-01-F1	Foundation

Email Only: jdelauder@horvathcommunications.com

Sincerely,

Jim Niekirk
JD Long

jd



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

DATE: NOVEMBER 30, 2018

PURCHASER: HORVATH COMMUNICATIONS

PROJECT: 265 FT RT SELF SUPPORT TOWER
HV 1326 I-64 & US 60, KENTUCKY

FILE NUMBER: 228456

DRAWINGS: 228456-01-D1 , 228456-01-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: _____

A handwritten signature in blue ink, appearing to read "H. Azouri".

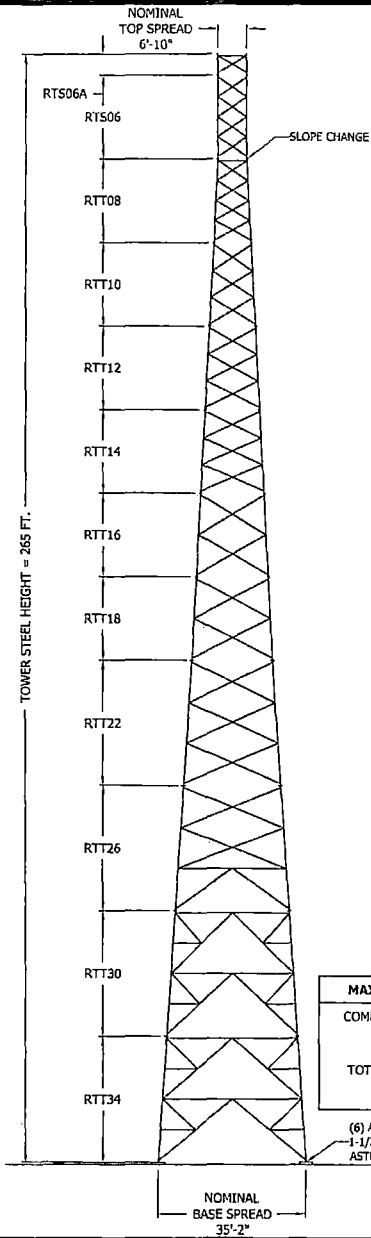
DATE: _____

11/30/18



Products for a Growing World of Technology®

REV 20, 2018 @ 09:50 AM



GENERAL NOTES

- ROHN PRODUCTS, LLC TOWER DESIGNS CONFORM TO ANSI/TIA-222-G UNLESS OTHERWISE SPECIFIED UNDER TOWER DESIGN LOADING.
- 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.
- ANTENNAS AND LINES LISTED IN TOWER DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
- STEP BOLTS WITH A SAFETY CLIMB SYSTEM SHALL BE INSTALLED AS A CLIMBING FACILITY.
- 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.
- WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-G, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
- THE MINIMUM YIELD STRENGTH OF STRUCTURAL STEEL MEMBERS SHALL BE 50 KSI.
- FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
- STRUCTURAL BOLTS SHALL CONFORM TO GRADE A325 PER ASTM F3125, EXCEPT WHERE NOTED.
- PAL NUTS ARE PROVIDED FOR ALL TOWER BOLTS.
- STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH ANSI/TIA-222-G.
- 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.
- PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
- TOLERANCE ON TOWER STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
- 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.
- DESIGN ASSUMES LEVEL GRADE AT TOWER SITE.
- DESIGN ASSUMES ALL ANTENNAS ARE MOUNTED SYMMETRICALLY TO MINIMIZE TORQUE.
- FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.

MAXIMUM FACTORED REACTIONS	
COMPRESSION =	452.1 KIPS
TENSION =	366.3 KIPS
TOTAL SHEAR =	80.4 KIPS
O.T.M. =	12,684.6 FT-KIPS

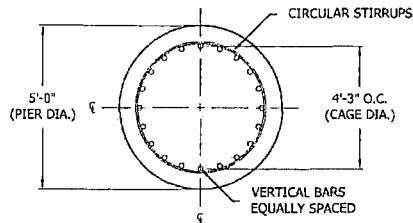
(6) ANCHOR BOLTS (18 TOTAL)
 1-1/2" DIA. X 74" LONG
 ASTM F1554 Gr. 105

TOWER DESIGN LOADING		
DESIGN WIND LOAD PER ANSI/TIA-222-G: ASCE 7-16 ULTIMATE WIND SPEED (NO ICE) = 106 MPH BASIC WIND SPEED (ICE) = 30 MPH PER ASCE 7-16 DESIGN ICE THICKNESS = 1.50 IN PER ASCE 7-16 STRUCTURE CLASS = II EXPOSURE CATEGORY = C TOPOGRAPHIC CATEGORY = 1 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION: SS = 0.194, S1 = 0.083		
THIS TOWER IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:		
ELEVATION (FT)	ANTENNA TYPE	LINE SIZE (NOM)
265	BEACON & LR	(1) 3/4" COAX
260	208 SQFT MAX EPA LOAD	(12) 1 5/8"
250	SD8R TIA w/o radome (AZ. 0 DEG) [6 GHz]	(1) 1 5/8"
240	165 SQFT MAX EPA	(12) 1 5/8"
230	165 SQFT MAX EPA	(12) 1 5/8"
220	165 SQFT MAX EPA	(12) 1 5/8"

SECTION MAIN MEMBER SCHEDULE			
SECTION	LEG	DIAGONAL	HORIZONTALS
RTS06A	PIPE 3.500x0.216	L1 3/4x1 3/4x3/16 (1)	L1 3/4x1 3/4x3/16 (1)
RTS06	PIPE 3.500x0.216	L1 3/4x1 3/4x3/16 (4)	N/A
RTT08	PIPE 3.500x0.216	L2x2x1/4 (4)	N/A
RTT10	PIPE 4.500x0.337	L2 1/2x2 1/2x1/4 (3)	N/A
RTT12	PIPE 5.563x0.375	L3x3x3/16 (3)	N/A
RTT14	PIPE 5.563x0.375	L3x3x1/4 (3)	N/A
RTT16	PIPE 6.625x0.432	L3 1/2x3 1/2x1/4 (2)	N/A
RTT18	PIPE 6.625x0.432	L3 1/2x3 1/2x1/4 (2)	N/A
RTT22	PIPE 8.625x0.375	L4x4x1/4 (3)	N/A
RTT26	PIPE 8.625x0.500	L4x4x5/16 (3)	L3 1/2x3 1/2x1/4 (1)
RTT30	PIPE 8.625x0.500	2L3 1/2x3 1/2x1/4 (2)	2L3x3x3/16 (2)
RTT34	PIPE 8.625x0.500	2L3 1/2x3 1/2x1/4 (2)	2L3 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.

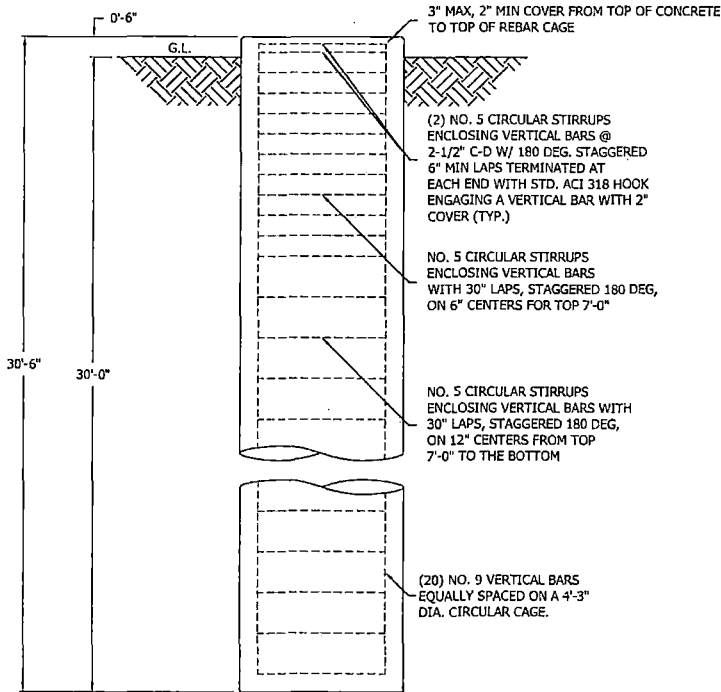
FILE NO. 228456			
REVISIONS			
REV	DESCRIPTION	DWN	CHK APP
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HORVATH COMMUNICATIONS DESIGN PROFILE 265 FT RT TOWER HV 1326 I-64 & US 60-KY			
DWN:	RCS	CHKD:	HA DATE: Nov/30/18
ENGR:	HA	SHEET #: 1 OF 1	
PRJ. ENGR:	RCS	PRJ. MANGR:	
DRAWING NO:	228456-01-D1		REV: 0



PLAN VIEW

N.T.S.

NOTE:
CAGE DIA. FROM CENTERLINE OF VERTICAL BARS.



ELEVATION VIEW

N.T.S.

FACTORED REACTIONS/LEG

DOWNLOAD = 452.1 KIPS
UPLIFT = 366.3 KIPS
SHEAR = 50.3 KIPS

VOLUME OF CONCRETE

(1) FOUNDATION 22.2 CU. YDS
(3) FOUNDATIONS 66.6 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 SUBSURFACE CONDITIONS ENCOUNTERED.
 - DEPTH NEGLECTED FOR SKIN FRICTION = TOP 6.5 FT
 - AVERAGE ULTIMATE SKIN SHEAR FOR UPLIFT: 6.5 FT TO 13.5 FT DEPTH = 330 PSF; 13.5 FT TO 18.5 FT DEPTH = 610 PSF; 18.5 FT TO 23.5 FT DEPTH = 1870 PSF; 23.5 FT TO 28.5 FT DEPTH = 1650 PSF; 28.5 FT TO 30.0 FT DEPTH = 2040 PSF.
 - AVERAGE ULTIMATE SKIN SHEAR FOR DOWNLOAD: 6.5 FT TO 13.5 FT DEPTH = 330 PSF; 13.5 FT TO 18.5 FT DEPTH = 610 PSF; 18.5 FT TO 23.5 FT DEPTH = 1870 PSF; 23.5 FT TO 28.5 FT DEPTH = 1650 PSF; 28.5 FT TO 30.0 FT DEPTH = 2040 PSF.
 - ULTIMATE NET END BEARING AT 30.0 FT = 34.00 KSF.
 - GROUNDWATER TABLE BELOW FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH 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 CHAPTER 4 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 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL 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.
- REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEMPORARY CASING IS UTILIZED, BRACING SHALL BE ADEQUATE TO RESIST FORCES OCCURRING FROM FLOWING CONCRETE DURING CASING EXTRACTION.
- 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.
- SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF VERTICAL REINFORCING CAGES TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. **GE018-03532-08** DATED **11/27/2018** BY DELTA OAKS GROUP.
- 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 INSTALLATION TOLERANCES SEE STRUCTURE ASSEMBLY 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.
- FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING SIDES OF EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
- CONSTRUCTION JOINTS, IF REQUIRED IN DRILLED PIER FOUNDATIONS, SHALL BE AT LEAST 12 INCHES BELOW BOTTOM OF EMBEDMENTS AND MUST 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.
- FOUNDATION DESIGN ASSUMES CASING, IF USED, WILL NOT BE LEFT IN PLACE. EQUIPMENT, PROCEDURES, AND PROPORTIONS OF CONCRETE MATERIALS SHALL INSURE CONCRETE WILL NOT BE ADVERSELY DISTURBED UPON CASING REMOVAL.
- DRILLING FLUID, IF USED, SHALL BE FULLY DISPLACED BY CONCRETE AND SHALL NOT BE DETRIMENTAL TO CONCRETE OR SURROUNDING SOIL. CONTAMINATED CONCRETE SHALL BE REMOVED FROM TOP OF FOUNDATION AND REPLACED WITH FRESH CONCRETE.

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

FILE NO.		228456	
REVISIONS			
REV	DESCRIPTION	DWN	CHK APP
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HORVATH COMMUNICATIONS DRILLED PIER FOUNDATION DETAILS HV 1326 I-64 & US 60, KY			
DWN:	RCS	CHK'D:	DATE:
ENGR:	HA	HA	11/30/2018
PRJ. ENGR:	RCS	PRJ. MANG'R:	SHEET #:
DRAWING NO:	228456-01-F1	REV:	1 OF 1
			0

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Contract: 228456
Project: 265 FT RT TOWER
Date and Time: 11/30/2018 10:44:02 AM

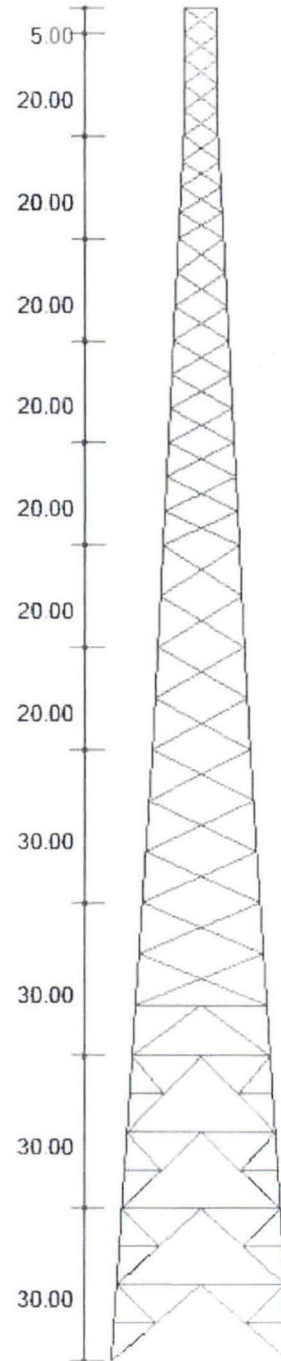
Revision: 0
Site: I-64 & US 60- KY
Engineer: RCS

HA

DESIGN SPECIFICATION

Design Standard: ANSI/TIA-222-G-2005 Add.2
Ultimate Design Wind Speed (No Ice) = 106.0 (mph)
Nominal Design Wind Speed (No Ice) = 82.1 (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	373.97	421.97
2	30.00	325.97	373.97
3	30.00	277.97	325.97
4	30.00	229.97	277.97
5	20.00	204.24	229.97
6	20.00	180.24	204.24
7	20.00	155.32	180.24
8	20.00	131.32	155.32
9	20.00	106.40	131.32
10	20.00	81.53	106.40
11	20.00	81.53	81.53
12	5.00	81.53	81.53



MAXIMUM BASE REACTIONS

Download (Kips)	452.1
Uplift (Kips)	366.4
Shear (Kips)	50.6
O.T.M. (Ft-Kips)	12,684.15

(6) 1.5" X 74" ANCHOR BOLTS PER LEG
(18 TOTAL)



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Revision: 0
 Site: I-64 & US 60- KY
 Engineer: RCS

Section A: PROJECT DATA

Project Title: 265 FT RT TOWER
 Customer Name: HORVATH COMMUNICATIONS
 Site: I-64 & US 60- KY
 Contract No.: 228456
 Revision: 0
 Engineer: RCS
 Date: Nov 30 2018
 Time: 10:22:03 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/ft³)
 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): 106.00 (mph)
 Nominal Design Wind Speed (No Ice): 82.11 (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/ft³)
 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: 0.194
 Spectral response acceleration Sl: 0.083
 Acceleration-based site coefficient Fa: 1.600
 Velocity-based site coefficient Fv: 2.400
 Design spectral response acceleration Sds: 0.207



ENGINEERING SOFTWARE
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Project: 265 FT RT TOWER
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Revision: 0
Site: I-64 & US 60- KY
Engineer: RCS

Design spectral response acceleration Sd1: 0.133
Seismic analysis method: 1
Fundamental frequency of structure fl: 0.794
Total seismic shear Vs (Kips) : 3.16

Analysis performed using: Robot Millenium Finite Element Analysis Software (by Robobat)



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Revision: 0
 Site: I-64 & US 60- 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	265.00	265.00	12	421.97	81.53

SECTION GEOMETRY

Sec #	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)	Sept. (lbs)		Database (lbs)
12	RTS06	260.00	265.00	82	82	142	187	0	0	329	0	0.787
11	RTS06	240.00	260.00	82	82	569	534	0	0	1103	0	0.787
10	RTT08	220.00	240.00	106	82	570	892	0	0	1462	0	0.787
9	RTT10	200.00	220.00	131	106	1127	1089	0	0	2216	0	0.787
8	RTT12	180.00	200.00	155	131	1562	1142	0	0	2704	0	0.787
7	RTT14	160.00	180.00	180	155	1562	1708	0	0	3270	0	0.787
6	RTT16	140.00	160.00	204	180	2150	1630	0	0	3780	0	0.787
5	RTT18	120.00	140.00	230	204	2151	1784	0	0	3934	0	0.787
4	RTT22	90.00	120.00	278	230	3727	3480	0	0	7207	0	0.787
3	RTT26*	60.00	90.00	326	278	4899	4831	0	279	10009	0	0.787
2	RTT30*	30.00	60.00	374	326	4899	5239	1103	698	11939	0	0.787
1	RTT34*	0.00	30.00	422	374	4899	6700	1614	895	14108	0	0.787
Total Mass:						28259	29216	2717	1871	62062	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)
12	1	X	(None)	Yes	5.0	81.5	81.5	(None)	(None)	(None)	0.300	0.00
11	4	X	(None)	None	5.0	81.5	81.5	(None)	(None)	(None)	0.300	0.00
11	3	X	(None)	None	5.0	81.5	81.5	(None)	(None)	(None)	0.300	0.00
11	2	X	(None)	None	5.0	81.5	81.5	(None)	(None)	(None)	0.300	0.00
11	1	X	(None)	None	5.0	81.5	81.5	(None)	(None)	(None)	0.300	0.00
10	4	X	(None)	None	5.0	87.7	81.5	(None)	(None)	(None)	0.300	0.00
10	3	X	(None)	None	5.0	94.0	87.7	(None)	(None)	(None)	0.300	0.00
10	2	X	(None)	None	5.0	100.2	94.0	(None)	(None)	(None)	0.300	0.00
10	1	X	(None)	None	5.0	106.4	100.2	(None)	(None)	(None)	0.300	0.00
9	3	X	(None)	None	6.7	114.7	106.4	(None)	(None)	(None)	0.300	0.00
9	2	X	(None)	None	6.7	123.0	114.7	(None)	(None)	(None)	0.300	0.00
9	1	X	(None)	None	6.7	131.3	123.0	(None)	(None)	(None)	0.300	0.00
8	3	X	(None)	None	6.7	139.3	131.3	(None)	(None)	(None)	0.300	0.00
8	2	X	(None)	None	6.7	147.3	139.3	(None)	(None)	(None)	0.300	0.00
8	1	X	(None)	None	6.7	155.3	147.3	(None)	(None)	(None)	0.300	0.00
7	3	X	(None)	None	6.7	163.6	155.3	(None)	(None)	(None)	0.300	0.00
7	2	X	(None)	None	6.7	171.9	163.6	(None)	(None)	(None)	0.300	0.00
7	1	X	(None)	None	6.7	180.2	171.9	(None)	(None)	(None)	0.300	0.00
6	2	X	(None)	None	10.0	192.2	180.2	(None)	(None)	(None)	0.300	0.00
6	1	X	(None)	None	10.0	204.2	192.2	(None)	(None)	(None)	0.300	0.00
5	2	X	(None)	None	10.0	217.1	204.2	(None)	(None)	(None)	0.300	0.00
5	1	X	(None)	None	10.0	230.0	217.1	(None)	(None)	(None)	0.300	0.00
4	3	X	(None)	None	10.0	246.0	230.0	(None)	(None)	(None)	0.300	0.00
4	2	X	(None)	None	10.0	262.0	246.0	(None)	(None)	(None)	0.300	0.00
4	1	X	(None)	None	10.0	278.0	262.0	(None)	(None)	(None)	0.300	0.00
3	3	X	(None)	None	10.0	294.0	278.0	(None)	(None)	(None)	0.300	0.00
3	2	X	(None)	None	10.0	310.0	294.0	(None)	(None)	(None)	0.300	0.00
3	1	K	(None)	Yes	15.0	326.0	310.0	2-Subdiv.	(None)	(None)	0.300	0.00
2	2	K	2-Subdiv.	Yes	15.0	350.0	326.0	2-Subdiv.	(None)	(None)	0.300	0.00
2	1	K	2-Subdiv.	Yes	15.0	374.0	350.0	2-Subdiv.	(None)	(None)	0.300	0.00
1	2	K	2-Subdiv.	Yes	15.0	398.0	374.0	2-Subdiv.	(None)	(None)	0.300	0.00



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 Contract: 228456
 Project: 265 FT RT TOWER
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Revision: 0
 Site: I-64 & US 60- KY
 Engineer: RCS

1 1 K 2-Subdiv. Yes 15.0 422.0 398.0 2-Subdiv. (None) 0.300 0.00

MEMBER PROPERTIES

Sec/Member Pnl Spacing	Type	Description	Steel Grade	Conn. Type	Bolt #-Size	Boit Grade	End Dist.	Edge Dist.	Gusset Thick.	Gusset Grade	Bolt Space	Dble Mem.
					(in)				(in)			
					(ft)				(in)			
12/1	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4-0.750	A325X						
12/1	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
12/1	Horiz	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.875	0.250	A572	gr.50	2.000
11/4	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4-0.750	A325X						
11/4	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.870	0.250	A572	gr.50	2.000
11/3	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4-0.750	A325X						
11/3	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.870	0.250	A572	gr.50	2.000
11/2	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4-0.750	A325X						
11/2	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.870	0.250	A572	gr.50	2.000
11/1	Leg	PIPE 3.500x0.216	A500	gr.CSTension	4-0.750	A325X						
11/1	Diag	L1 3/4x1 3/4x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	0.870	0.250	A572	gr.50	2.000
10/4	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
10/4	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
10/3	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
10/3	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
10/2	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
10/2	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
10/1	Leg	PIPE 3.500x0.216	A500	gr.CSTension	5-0.875	A325X						
10/1	Diag	L2x2x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.000	0.250	A572	gr.50	2.000
9/3	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
9/3	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
9/2	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
9/2	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
9/1	Leg	PIPE 4.500x0.337	A500	gr.CSTension	5-1.000	A325X						
9/1	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
8/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
8/3	Diag	L3x3x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000
8/2	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
8/2	Diag	L3x3x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000
8/1	Leg	PIPE 5.563x0.375	A500	gr.CSTension	5-1.000	A325X						
8/1	Diag	L3x3x3/16	A529	gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000
7/3	Leg	PIPE 5.563x0.375	A500	gr.CSTension	6-1.000	A325X						
7/3	Diag	L3x3x1/4	A529	gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572	gr.50	2.000



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File: W:\Jobs\2018\228456\228456.out
 Contract: 228456
 Project: 265 FT RT TOWER
 Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
 Site: I-64 & US 60- KY
 Engineer: RCS

7/2	Leg	PIPE 5.563x0.375	A500 gr.CSTension	6-1.000	A325X								
7/2	Diag	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572	gr.50	2.000		
7/1	Leg	PIPE 5.563x0.375	A500 gr.CSTension	6-1.000	A325X								
7/1	Diag	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.500	0.250	A572	gr.50	2.000		
6/2	Leg	PIPE 6.625x0.432	A500 gr.CSTension	6-1.000	A325X								
6/2	Diag	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572	gr.50	2.000		
6/1	Leg	PIPE 6.625x0.432	A500 gr.CSTension	6-1.000	A325X								
6/1	Diag	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.750	0.250	A572	gr.50	2.000		
5/2	Leg	PIPE 6.625x0.432	A500 gr.CSTension	6-1.500	A325X								
5/2	Diag	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.000	0.250	A572	gr.50	2.000		
5/1	Leg	PIPE 6.625x0.432	A500 gr.CSTension	6-1.500	A325X								
5/1	Diag	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.000	0.250	A572	gr.50	2.000		
4/3	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X								
4/3	Diag	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.500	0.250	A572	gr.50	2.000		
4/2	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X								
4/2	Diag	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.500	0.250	A572	gr.50	2.000		
4/1	Leg	PIPE 8.625x0.375	A500 gr.CSTension	6-1.500	A325X								
4/1	Diag	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.500	0.250	A572	gr.50	2.000		
3/3	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X								
3/3	Diag	L4x4x5/16	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572	gr.50	2.000		
3/2	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X								
3/2	Diag	L4x4x5/16	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572	gr.50	2.000		
3/1	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X								
3/1	Diag	L4x4x5/16	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572	gr.50	2.000		
3/1	Horiz	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.250	A572	gr.50	2.000		
3/1	PlanH1	L3 1/2x3 1/2x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.000	0.250	A572	gr.50	2.000		
2/2	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X								
2/2	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572	gr.50	2.000		
0.3135.00	2/2	Horiz	2L3x3x3/16	A529 gr.50Bolted	2-0.625	A325X	1.500	1.620	0.375	A572	gr.50	2.000	
0.3130.00	2/2	SecD1	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000	
2/2	SecH1	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000		
2/2	PlanH1	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.500	0.250	A572	gr.50	2.000		
2/1	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X								
2/1	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572	gr.50	2.000		
0.3135.00	2/1	Horiz	2L3x3x3/16	A529 gr.50Bolted	2-0.625	A325X	1.500	1.620	0.375	A572	gr.50	2.000	
0.3130.00	2/1	SecD1	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000	
2/1	SecH1	L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000		



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 Contract: 228456
 Project: 265 FT RT TOWER
 Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
 Site: I-64 & US 60- KY
 Engineer: RCS

2/1	PlanH1	L4x4x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	2.500	0.250	A572	gr.50	2.000
											2.000
1/2	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X						
1/2	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572	gr.50	2.000
											2.000
0.3755.00											
1/2	Horiz	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572	gr.50	2.000
											2.000
0.3750.00											
1/2	SecD1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000
											2.000
1/2	SecH1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000
											2.000
1/2	PlanH1	2L3x3x3/16	A529 gr.50Bolted	1 0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000
											2.000
0.3135.00											
1/1	Leg	PIPE 8.625x0.500	A500 gr.CSTension	6-1.500	A325X						
1/1	Diag	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572	gr.50	2.000
											2.000
0.3755.00											
1/1	Horiz	2L3 1/2x3 1/2x1/4	A529 gr.50Bolted	2-0.625	A325X	1.500	2.000	0.375	A572	gr.50	2.000
											2.000
0.3750.00											
1/1	SecD1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000
											2.000
1/1	SecH1	L3x3x1/4	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000
											2.000
1/1	PlanH1	2L3x3x3/16	A529 gr.50Bolted	1-0.625	A325X	1.500	1.620	0.250	A572	gr.50	2.000
											2.000
0.3135.00											



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 Contract: 228456
 Project: 265 FT RT TOWER
 Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
 Site: I-64 & US 60- 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)	Ka
1	250.00	(1) SD8ft TIA w/o radome	0	4.25		0		Full Shielded	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 w/o radome	77.95	2.12	77.95	2.12	260.00	1328.60	6.00	10	0.85



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File: W:\Jobs\2018\228456\228456.out
 Contract: 228456
 Project: 265 FT RT TOWER
 Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
 Site: I-64 & US 60- 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	265.00	3/8 CABLE	20.00	0.00	0.00	1	1	Yes		
2	0.00	265.00	RC0.75-Cnd	17.70	60.00	5.00	1	1	No		
3	0.00	265.00	TX Ladder	11.72	60.00	30.00	1	1	No		
4	240.00	260.00	LDF7P-50A	2.26	60.00	30.00	12	2	No		
5	240.00	250.00	LDF7P-50A	2.26	60.00	30.00	13	2	No		
6	0.00	240.00	LDF7P-50A	11.72	60.00	30.00	25	2	No		
7	0.00	240.00	TX Ladder	11.72	180.00	150.00	1	1	No		
8	220.00	230.00	LDF7P-50A	2.96	180.00	150.00	12	2	No		
9	0.00	220.00	LDF7P-50A	11.72	180.00	150.00	24	2	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	RC0.75-Cnd	1.05	1.05	1.09	2.750	2.750
3	TX Ladder	4.70	1.50	4.00	2.750	2.750
4	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
5	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
6	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
7	TX Ladder	4.70	1.50	4.00	2.750	2.750
8	LDF7P-50A	2.01	2.01	0.92	2.250	2.750
9	LDF7P-50A	2.01	2.01	0.92	2.250	2.750



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File: W:\Jobs\2018\228456\228456.out
 Contract: 228456
 Project: 265 FT RT TOWER
 Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
 Site: I-64 & US 60- 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	BEACON & LR	265.00	1.00	0.0	0.0	0.00		
2	208 SQFT MAX EPA LOAD	260.00	1.00	0.0	0.0	0.00		
3	CARRIER	240.00	1.00	0.0	0.0	0.00		
4	CARRIER	230.00	1.00	0.0	0.0	0.00		
5	CARRIER	220.00	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 Iccd (Kips)	Gh
1	BEACON & LR	5.00	5.00	10.00	10.00	0.25	0.50	0.85
2	208 SQFT MAX EPA LOAD	208.00	208.00	416.00	416.00	5.00	10.00	0.85
3	CARRIER	165.00	165.00	330.00	330.00	3.00	6.00	0.85
4	CARRIER	165.00	165.00	330.00	330.00	3.00	6.00	0.85
5	CARRIER	165.00	165.00	330.00	330.00	3.00	6.00	0.85



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File: W:\Jobs\2018\228456\228456.out
 Contract: 228456
 Project: 265 FT RT TOWER
 Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
 Site: I-64 & US 60- 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)
114	265.0	33.6	31.2	-0.5	1.34	1.25	0.30
111	260.0	32.2	29.9	-0.5	1.42	1.32	-0.33
108	255.0	30.8	28.5	-0.5	1.31	1.23	0.27
105	250.0	29.4	27.3	-0.5	1.43	1.33	-0.32
102	245.0	27.9	25.9	-0.5	1.25	1.17	0.24
99	240.0	26.6	24.6	-0.5	1.38	1.29	-0.31
96	235.0	25.1	23.3	-0.5	1.15	1.07	0.20
93	230.0	23.9	22.2	-0.5	1.31	1.22	-0.27
90	225.0	22.5	20.9	-0.5	1.05	0.98	0.17
87	220.0	21.4	19.9	-0.5	1.16	1.09	-0.23
84	213.3	19.8	18.3	-0.5	0.98	0.92	0.14
81	206.7	18.4	17.1	-0.5	1.05	0.98	-0.18
78	200.0	17.0	15.7	-0.4	0.89	0.83	0.11
75	193.3	15.7	14.5	-0.4	0.95	0.89	-0.14
72	186.7	14.4	13.3	-0.4	0.81	0.76	0.09
69	180.0	13.3	12.2	-0.4	0.84	0.79	-0.10
66	173.3	12.1	11.1	-0.4	0.72	0.67	0.07
63	166.7	11.1	10.2	-0.4	0.74	0.69	-0.08
60	160.0	10.1	9.2	-0.4	0.63	0.59	0.06
57	150.0	8.7	8.0	-0.3	0.60	0.56	-0.06
54	140.0	7.5	6.8	-0.3	0.53	0.49	0.04
51	130.0	6.4	5.8	-0.3	0.48	0.45	-0.04
48	120.0	5.4	4.9	-0.3	0.42	0.38	0.04
45	110.0	4.5	4.1	-0.3	0.38	0.35	-0.03
42	100.0	3.7	3.4	-0.2	0.32	0.30	0.03
39	90.0	3.0	2.7	-0.2	0.29	0.27	-0.03
36	80.0	2.4	2.2	-0.2	0.25	0.23	0.02
32	70.0	1.9	1.7	-0.2	0.21	0.20	-0.02
26	60.0	1.4	1.3	-0.2	0.18	0.16	0.02
20	45.0	0.9	-0.8	-0.1	0.14	0.12	-0.01
14	30.0	0.4	-0.4	-0.1	0.09	-0.08	-0.01
8	15.0	0.1	-0.1	0.0	0.05	-0.04	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)
114	265.0	11.5	10.5	-0.2	0.46	0.42	0.10
111	260.0	11.0	10.1	-0.2	0.49	0.45	-0.11
108	255.0	10.5	9.6	0.2	0.45	0.41	0.09
105	250.0	10.0	9.2	0.2	0.49	0.45	-0.11
102	245.0	9.5	8.7	-0.2	0.43	0.39	0.08
99	240.0	9.0	8.3	0.2	0.47	0.44	-0.10
96	235.0	8.5	7.9	-0.2	0.39	0.36	0.07
93	230.0	8.1	7.5	-0.2	0.45	0.41	0.09
90	225.0	7.7	7.1	-0.1	0.26	0.33	0.06
87	220.0	7.3	6.7	-0.1	0.40	0.37	-0.08
84	213.3	6.7	6.2	0.1	0.33	0.31	0.05
81	206.7	6.3	5.8	0.1	0.36	0.33	-0.06
78	200.0	5.8	5.3	0.1	0.30	0.28	0.04
75	193.3	5.3	4.9	-0.1	0.32	0.30	-0.05
72	186.7	4.9	4.5	-0.1	0.28	0.26	0.03
69	180.0	4.5	4.1	-0.1	0.29	0.27	-0.03



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Contract: 228456
Project: 265 FT RT TOWER
Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
Site: I-64 & US 60- KY
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66	173.3	4.1	3.8	-0.1	0.24	0.23	0.02
63	166.7	3.8	3.5	-0.1	0.25	0.23	-0.03
60	160.0	3.4	3.1	-0.1	0.21	0.20	0.02
57	150.0	3.0	2.7	-0.1	0.20	0.19	-0.02
54	140.0	2.5	2.3	-0.1	0.18	0.17	0.01
51	130.0	2.2	2.0	-0.1	0.16	0.15	-0.01
48	120.0	1.8	1.7	-0.1	0.14	0.13	0.01
45	110.0	1.5	1.4	-0.1	0.13	0.12	-0.01
42	100.0	1.3	1.1	-0.1	0.11	0.10	0.01
39	90.0	1.0	0.9	-0.1	0.10	0.09	-0.01
36	80.0	0.8	0.7	-0.1	0.08	0.08	0.01
32	70.0	0.6	0.6	-0.1	0.07	0.07	-0.01
26	60.0	0.5	0.4	0.0	0.06	0.06	0.01
20	45.0	0.3	-0.3	0.0	0.05	0.04	0.00
14	30.0	0.1	-0.1	0.0	0.03	-0.03	0.00
8	15.0	0.1	0.0	0.0	0.02	-0.01	0.00
3	0.0	0.0	0.0	0.0	0.00	0.00	0.00



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Revision: 0
Site: I-64 & US 60- 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	250.00	10.0	9.2	-0.2	0.49	0.45	-0.11	1.11



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Section L: STRENGTH ASSESSMENT SORTED DATA

Load Combination Max Envelope
 Wind Direction Maximum

Sec	Pnl	Elev.	MType	Desc.	Len	ki/r	Gov. comp. cap. (Kips)	Gov. tens. cap. (Kips)	Max Compr. (Kips)	Max Tens. (Kips)	Asses. Ratio
		(ft)			(ft)						
12	1	260.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	2.1	1.9	0.03
11	4	255.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	8.1	3.0	0.10
11	3	250.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	12.1	7.4	0.15
11	2	245.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	22.4	16.5	0.27
11	1	240.00	Leg	PIPE 3.500x0.216	5.00	51.7	82.5	100.4	29.2	23.0	0.35
10	4	235.00	Leg	PIPE 3.500x0.216	5.01	51.8	82.5	100.4	41.7	32.6	0.51
10	3	230.00	Leg	PIPE 3.500x0.216	5.01	51.8	82.5	100.4	52.5	42.6	0.64
10	2	225.00	Leg	PIPE 3.500x0.216	5.01	51.8	82.5	100.4	64.2	52.1	0.78
10	1	220.00	Leg	PIPE 3.500x0.216	5.01	51.8	82.5	100.4	77.8	65.1	0.94
9	3	213.33	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	92.3	77.3	0.58
9	2	206.67	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	113.9	96.8	0.71
9	1	200.00	Leg	PIPE 4.500x0.337	6.68	54.2	160.1	198.4	128.7	110.6	0.80
8	3	193.33	Leg	PIPF 5.563x0.375	6.68	43.6	239.4	275.0	147.4	127.2	0.62
8	2	186.67	Leg	PIPF 5.563x0.375	6.68	43.6	239.4	275.0	161.0	139.7	0.67
8	1	180.00	Leg	PIPF 5.563x0.375	6.68	43.6	239.4	275.0	177.9	154.6	0.74
7	3	173.33	Leg	PIPF 5.563x0.375	6.68	43.6	239.3	275.0	190.5	166.0	0.80
7	2	166.67	Leg	PIPF 5.563x0.375	6.68	43.6	239.3	275.0	205.7	179.2	0.86
7	1	160.00	Leg	PIPF 5.563x0.375	6.68	43.6	239.3	275.0	217.5	189.6	0.91
6	2	150.00	Leg	PIPE 6.625x0.432	10.02	54.6	304.3	330.3	235.4	204.9	0.77
6	1	140.00	Leg	PIPE 6.625x0.432	10.02	54.6	304.3	330.3	252.7	219.9	0.83
5	2	130.00	Leg	PIPE 6.625x0.432	10.02	54.6	304.2	378.5	272.4	236.5	0.90
5	1	120.00	Leg	PIPE 6.625x0.432	10.02	54.6	304.2	378.5	288.4	250.0	0.95
4	3	110.00	Leg	PIPE 8.625x0.375	10.03	41.2	386.3	437.4	303.9	262.7	0.79
4	2	100.00	Leg	PIPE 8.625x0.375	10.03	41.2	386.3	437.4	317.2	272.8	0.82
4	1	90.00	Leg	PIPE 8.625x0.375	10.03	41.2	386.3	437.4	329.7	282.6	0.85
3	3	80.00	Leg	PIPE 8.625x0.500	10.03	41.8	505.4	574.2	342.9	292.3	0.68
3	2	70.00	Leg	PIPE 8.625x0.500	10.03	41.8	505.4	574.2	355.6	301.7	0.70
3	1	60.00	Leg	PIPE 8.625x0.500	10.03	41.8	505.4	574.2	363.2	305.9	0.72
2	2	45.00	Leg	PIPE 8.625x0.500	15.04	31.3	534.4	574.2	376.7	314.7	0.70
2	1	30.00	Leg	PIPE 8.625x0.500	15.04	31.3	534.4	574.2	396.4	328.2	0.74
1	2	15.00	Leg	PIPE 8.625x0.500	15.04	31.3	534.4	574.2	416.0	341.3	0.78
1	1	0.00	Leg	PIPE 8.625x0.500	15.04	31.3	534.4	574.2	435.7	354.0	0.82
12	1	260.00	Diag	L1 3/4x1 3/4x3/16	8.44	133.3	7.9	10.7	3.7	3.4	0.47
11	4	255.00	Diag	L1 3/4x1 3/4x3/16	8.44	133.3	7.9	10.6	4.0	4.0	0.50
11	3	250.00	Diag	L1 3/4x1 3/4x3/16	8.44	133.3	7.9	10.6	4.3	4.2	0.54
11	2	245.00	Diag	L1 3/4x1 3/4x3/16	8.44	133.3	7.9	10.6	5.2	5.7	0.66
11	1	240.00	Diag	L1 3/4x1 3/4x3/16	8.44	133.3	7.9	10.6	6.1	5.6	0.77
10	4	235.00	Diag	L2x2x1/4	8.65	123.8	13.9	15.2	6.4	6.2	0.46
10	3	230.00	Diag	L2x2x1/4	9.07	130.6	12.4	15.2	6.0	6.0	0.48
10	2	225.00	Diag	L2x2x1/4	9.51	137.5	11.2	15.2	8.6	8.2	0.76
10	1	220.00	Diag	L2x2x1/4	9.96	144.5	10.2	15.2	7.8	8.1	0.76
9	3	213.33	Diag	L2 1/2x2 1/2x1/4	11.37	131.4	15.2	15.2	11.3	10.8	0.74
9	2	206.67	Diag	L2 1/2x2 1/2x1/4	11.94	138.6	14.0	15.2	10.1	10.5	0.72
9	1	200.00	Diag	L2 1/2x2 1/2x1/4	12.52	145.9	12.6	15.2	10.3	9.8	0.81
8	3	193.33	Diag	L3x3x3/16	13.10	125.7	15.2	14.7	9.5	10.0	0.68
8	2	186.67	Diag	L3x3x3/16	13.68	131.7	14.2	14.7	10.0	9.4	0.70
8	1	180.00	Diag	L3x3x3/16	14.27	137.8	13.0	14.7	9.2	9.6	0.71
7	3	173.33	Diag	L3x3x1/4	14.87	144.2	15.2	15.2	9.6	9.0	0.63
7	2	166.67	Diag	L3x3x1/4	15.49	150.6	14.3	15.2	8.9	9.3	0.62
7	1	160.00	Diag	L3x3x1/4	16.12	157.1	13.2	15.2	9.4	9.0	0.72
6	2	150.00	Diag	L3 1/2x3 1/2x1/4	18.46	154.4	15.2	15.2	10.2	10.4	0.69
6	1	140.00	Diag	L3 1/2x3 1/2x1/4	19.31	162.0	14.6	15.2	10.6	10.2	0.73
5	2	130.00	Diag	L3 1/2x3 1/2x1/4	20.21	170.2	13.2	15.2	9.8	9.8	0.74
5	1	120.00	Diag	L3 1/2x3 1/2x1/4	21.14	178.5	12.0	15.2	10.0	9.9	0.83



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 Contract: 228456
 Project: 265 FT RT TOWER
 Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
 Site: I-64 & US 60- KY
 Engineer: RCS

4	3	110.00	Diag	L4x4x1/4	22.21	161.4	15.2	15.2	7.9	7.7	0.52
4	2	100.00	Diag	L4x4x1/4	23.41	170.5	15.1	15.2	8.0	8.1	0.53
4	1	90.00	Diag	L4x4x1/4	24.62	179.7	13.6	15.2	8.5	8.3	0.62
3	3	80.00	Diag	L4x4x5/16	25.85	173.5	18.0	30.4	8.6	8.7	0.48
3	2	70.00	Diag	L4x4x5/16	27.08	180.7	16.6	30.4	9.1	8.9	0.55
3	1	60.00	Diag	L4x4x5/16	16.87	188.1	15.3	30.4	11.1	11.1	0.72
2	2	45.00	Diag	2L3 1/2x3 1/2x1/4	20.93	171.6	25.9	55.3	13.6	13.6	0.52
2	1	30.00	Diag	2L3 1/2x3 1/2x1/4	21.64	176.4	24.5	55.3	13.8	13.8	0.56
1	2	15.00	Diag	2L3 1/2x3 1/2x1/4	22.37	179.4	23.7	55.3	14.0	14.0	0.59
1	1	0.00	Diag	2L3 1/2x3 1/2x1/4	23.12	184.3	22.5	55.3	14.1	14.1	0.63
12	1	260.00	Horiz	L1 3/4x1 3/4x3/16	6.79	216.0	3.0	10.7	2.7	2.9	0.90
3	1	60.00	Horiz	L3 1/2x3 1/2x1/4	12.92	177.6	12.1	30.4	8.9	8.9	0.74
2	2	45.00	Horiz	2L3x3x3/16	13.58	165.3	18.0	48.4	9.6	9.4	0.53
2	1	30.00	Horiz	2L3x3x3/16	14.58	178.1	15.5	48.4	10.1	9.9	0.65
1	2	15.00	Horiz	2L3 1/2x3 1/2x1/4	15.58	164.6	28.2	55.3	10.5	10.3	0.37
1	1	0.00	Horiz	2L3 1/2x3 1/2x1/4	16.58	175.6	24.8	55.3	10.9	10.6	0.44
3	1	60.00	PlanH1	L3 1/2x3 1/2x1/4	12.92	224.6	7.6	15.2	0.0	0.0	0.01
2	2	45.00	SecH1	L3x3x3/16	6.79	138.1	12.9	14.7	6.5	6.5	0.50
2	2	45.00	SecD1	L3x3x3/16	9.79	199.2	6.2	14.7	5.1	5.1	0.82
2	2	45.00	PlanH1	L4x4x1/4	13.58	203.7	10.6	15.2	0.1	0.1	0.01
2	1	30.00	SecH1	L3x3x3/16	7.29	148.3	11.2	14.7	6.8	6.8	0.61
2	1	30.00	SecD1	L3x3x3/16	10.12	205.9	5.8	14.7	5.1	5.1	0.88
2	1	30.00	PlanH1	L4x4x1/4	14.58	218.7	9.2	15.2	0.1	0.1	0.01
1	2	15.00	SecH1	L3x3x1/4	7.79	158.5	13.0	15.2	7.2	7.2	0.55
1	2	15.00	SecD1	L3x3x1/4	10.46	212.8	7.2	15.2	5.1	5.1	0.72
1	2	15.00	PlanH1	2L3x3x3/16	15.58	198.9	12.4	19.5	0.1	0.1	0.01
1	1	0.00	SecH1	L3x3x1/4	8.29	168.6	11.4	15.2	7.5	7.5	0.66
1	1	0.00	SecD1	L3x3x1/4	10.82	220.0	6.7	15.2	5.2	5.2	0.78
1	1	0.00	PlanH1	2L3x3x3/16	16.58	211.7	11.0	19.5	0.1	0.1	0.01



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Project: 265 FT RT TOWER
Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
Site: I-64 & US 60- 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)	Bcal. Cap. (Kips)	Block Shear (Kips)
12	1	Leg	A500 gr.CS	Tension	4	0.750	A325X 0.938	N/A	51.7	82.5	100.4	121.7T	N/A	N/A
12	1	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	133.3	7.9	17.4	15.2S	14.7	10.7
12	1	Horiz	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	216.0	3.0	17.4	15.2S	14.7	10.7
11	4	Leg	A500 gr.CS	Tension	4	0.750	A325X 1.125	N/A	51.7	82.5	100.4	121.7T	N/A	N/A
11	4	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	133.3	7.9	17.4	15.2S	14.7	10.6
11	3	Leg	A500 gr.CS	Tension	4	0.750	A325X 1.125	N/A	51.7	82.5	100.4	121.7T	N/A	N/A
11	3	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	133.3	7.9	17.4	15.2S	14.7	10.6
11	2	Leg	A500 gr.CS	Tension	4	0.750	A325X 1.125	N/A	51.7	82.5	100.4	121.7T	N/A	N/A
11	2	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	133.3	7.9	17.4	15.2S	14.7	10.6
11	1	Leg	A500 gr.CS	Tension	4	0.750	A325X 1.125	N/A	51.7	82.5	100.4	121.7T	N/A	N/A
11	1	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	133.3	7.9	17.4	15.2S	14.7	10.6
10	4	Leg	A500 gr.CS	Tension	5	0.875	A325X 1.313	N/A	51.8	82.5	100.4	209.9T	N/A	N/A
10	4	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	123.8	13.9	27.3	15.2S	19.5	15.7
10	3	Leg	A500 gr.CS	Tension	5	0.875	A325X 1.313	N/A	51.8	82.5	100.4	209.9T	N/A	N/A
10	3	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	130.6	12.4	27.3	15.2S	19.5	15.7
10	2	Leg	A500 gr.CS	Tension	5	0.875	A325X 1.313	N/A	51.8	82.5	100.4	209.9T	N/A	N/A
10	2	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	137.5	11.2	27.3	15.2S	19.5	15.7
10	1	Leg	A500 gr.CS	Tension	5	0.875	A325X 1.313	N/A	51.8	82.5	100.4	209.9T	N/A	N/A
10	1	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	144.5	10.2	27.3	15.2S	19.5	15.7
9	3	Leg	A500 gr.CS	Tension	5	1.000	A325X 1.250	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
9	3	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	131.4	15.6	36.5	15.2S	19.5	18.7
9	2	Leg	A500 gr.CS	Tension	5	1.000	A325X 1.250	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
9	2	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	138.6	14.0	36.5	15.2S	19.5	18.7
9	1	Leg	A500 gr.CS	Tension	5	1.000	A325X 1.250	N/A	54.2	160.1	198.4	275.3T	N/A	N/A
9	1	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	145.9	12.6	36.5	15.2S	19.5	18.7
8	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
8	3	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	125.7	15.6	34.6	15.2S	14.7	17.5
8	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
8	2	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	131.7	14.2	34.6	15.2S	14.7	17.5
8	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
8	1	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	137.8	13.0	34.6	15.2S	14.7	17.5
7	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
7	3	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	144.2	15.6	45.6	15.2S	19.5	21.8
7	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
7	2	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	150.6	14.3	45.6	15.2S	19.5	21.8
7	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
7	1	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	157.1	13.2	45.6	15.2S	19.5	21.8
6	2	Leg	A500 gr.CS	Tension	6	1.000	A325X 1.500	N/A	54.6	304.3	378.5	330.3T	N/A	N/A
6	2	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	154.4	16.0	54.8	15.2S	19.5	24.8
6	1	Leg	A500 gr.CS	Tension	6	1.000	A325X 1.500	N/A	54.6	304.3	378.5	330.3T	N/A	N/A
6	1	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	162.0	14.6	54.8	15.2S	19.5	24.8
5	2	Leg	A500 gr.CS	Tension	6	1.500	A325X 2.250	N/A	54.6	304.2	378.5	765.3T	N/A	N/A
5	2	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	170.2	13.2	54.8	15.2S	19.5	27.9
5	1	Leg	A500 gr.CS	Tension	6	1.500	A325X 2.250	N/A	54.6	304.2	378.5	765.3T	N/A	N/A
5	1	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	178.5	12.0	54.8	15.2S	19.5	27.9
4	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
4	3	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	161.4	16.8	63.9	15.2S	19.5	34.0
4	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
4	2	Diag	A529 gr.50	Bolted	1	0.625	A325X 1.500	0.250	170.5	15.1	63.9	15.2S	19.5	34.0
4	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



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Graduate
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 Peoria, IL

File: W:\Jobs\2018\228456\228456.out
 Contract: 228456
 Project: 265 FT RT TOWER
 Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
 Site: I-64 & US 60- KY
 Engineer: RCS

4	1	Diag	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	179.7	13.6	63.9	15.2S	19.5	34.0
3	3	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.8	505.4	574.2	765.3T	N/A	N/A
3	3	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	173.5	18.0	79.0	30.4S	48.8	46.2
3	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.8	505.4	574.2	765.3T	N/A	N/A
3	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	180.7	16.6	79.0	30.4S	48.8	46.2
3	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	41.8	505.4	574.2	765.3T	N/A	N/A
3	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	188.1	15.3	79.0	30.4S	48.8	46.2
3	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.250	177.6	12.1	54.8	30.4S	39.0	36.9
3	1	PlanHl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	224.6	7.6	54.8	15.2S	19.5	27.9
2	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	31.3	534.4	574.2	765.3T	N/A	N/A
2	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	171.6	25.9	109.5	60.7S	58.5	55.3
2	2	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	165.3	18.0	69.1	60.7S	58.5	48.4
2	2	SecHl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	138.1	12.9	34.6	15.2S	14.7	17.5
2	2	SecDl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	199.2	6.2	34.6	15.2S	14.7	17.5
2	2	PlanHl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	203.7	10.6	63.9	15.2S	19.5	34.0
2	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	31.3	534.4	574.2	765.3T	N/A	N/A
2	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	176.4	24.5	109.5	60.7S	58.5	55.3
2	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	178.1	15.5	69.1	60.7S	58.5	48.4
2	1	SecHl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	148.3	11.2	34.6	15.2S	14.7	17.5
2	1	SecDl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	205.9	5.8	34.6	15.2S	14.7	17.5
2	1	PlanHl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	218.7	9.2	63.9	15.2S	19.5	34.0
1	2	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	31.3	534.4	574.2	765.3T	N/A	N/A
1	2	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	179.4	23.7	109.5	60.7S	58.5	55.3
1	2	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	164.6	28.2	109.5	60.7S	58.5	55.3
1	2	SecHl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	158.5	13.0	45.6	15.2S	19.5	23.2
1	2	SecDl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	212.8	7.2	45.6	15.2S	19.5	23.2
1	2	PlanHl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	198.9	12.4	69.1	30.4S	19.5	23.2
1	1	Leg	A500	gr.CS	Tension	6	1.500	A325X	2.250	N/A	31.3	534.4	574.2	765.3T	N/A	N/A
1	1	Diag	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	184.3	22.5	109.5	60.7S	58.5	55.3
1	1	Horiz	A529	gr.50	Bolted	2	0.625	A325X	1.500	0.375	175.6	24.8	109.5	60.7S	58.5	55.3
1	1	SecHl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	168.6	11.4	45.6	15.2S	19.5	23.2
1	1	SecDl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	220.0	6.7	45.6	15.2S	19.5	23.2
1	1	PlanHl	A529	gr.50	Bolted	1	0.625	A325X	1.500	0.250	211.7	11.0	69.1	30.4S	19.5	23.2



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File: W:\Jobs\2018\228456\228456.out
 Contract: 228456
 Project: 265 FT RT TOWER
 Date and Time: 11/30/2018 10:44:02 AM

Revision: 0
 Site: I-64 & US 60- 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)
	452.08	366.36			50.60



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 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)
81.01	41.94	68.63	80.43	10730.97	-21.77	-6762.69	12684.15
81.01	41.94	68.63	80.43	10730.97	-21.77	-6762.69	12684.15

File no : 228456 Customer: HORVATH COMMUNICATONS Date 11/30/18
 By: RCS Description: 265' RT TOWER Page 1
 Chk: HA 11/30/18 HV 1326 I-64 & US 60, KY Ver 11/16/01

FACTORED REACTIONS / LEG

COMPRESSION = 452.11 k (6) - 1.5 " dia A.B. per leg
 UPLIFT = 366.34 k $f'_c = 4,500$ psi
 SHEAR = 50.28 k $f_v = 60,000$ psi

SOIL PARAMETERS

- A) Depth neglected for skin friction = Top 6.5 ft
- B) Average ultimate skin shear for uplift:
 6.5 ft to 13.5 ft depth = 330 psf, and 13.5 ft to 18.5 ft depth = 610 psf, and 18.5 ft to 23.5 ft depth = 1870 psf, and 23.5 ft to 28.5 ft depth = 1650 psf, and 28.5 ft to 30.0 ft depth = 2040 psf.
- C) Average ultimate skin shear for download:
 6.5 ft to 13.5 ft depth = 330 psf, and 13.5 ft to 18.5 ft depth = 610 psf, and 18.5 ft to 23.5 ft depth = 1870 psf, and 23.5 ft to 28.5 ft depth = 1650 psf, and 28.5 ft to 30.0 ft depth = 2040 psf.
- D) Ultimate net end bearing at 30.0 ft = 34.00 ksf.
- E) Groundwater table below foundation depth.

USE 5'- 0" DIAMETER AND 30'- 0" DEEP DRILLED PIER WITH 0'- 6" CAP ERROR - Minimum Pier Diameter = 9,999.0 ft

Perimeter = 15.71 ft Area = 19.63 ft²

Total Download = 452.11 + [1.2 x 0.15 - 0.75 x 0.120] x 30 x 19.63 =
 = 506.0 k

Tension Capacity = 19.63 x (30.5 x 0.15 + 0.0 x 0.09) x 0.90 +
 15.71 x (0.330 x 7.0 + 0.610 x 5.0 + 1.870 x 5.0 + 1.650 x 5.0 + 2.040 x 1.5) x 0.75 =
 80.8 + 306.6 = 387.4 k
 387.4 >= 366.34 OK

Comp. Capacity = 19.63 x 34.00 x 0.75 +
 15.71 x (0.330 x 7.0 + 0.610 x 5.0 + 1.870 x 5.0 + 1.650 x 5.0 + 2.040 x 1.5) x 0.75 =
 500.6 + 306.6 = 807.2 k
 807.2 >= 506.0 OK

LATERAL - SEE ATTACHED CALCULATIONS USING WIGGINS METHOD

Max M = 619.39 ft-k Max V = 66.37 k

REINFORCEMENT - SEE ATTACHED SHAFT PROGRAM

USE 20 - # 9 BARS VERTICAL WITH
 # 4 TIES AT 6" IN TOP 7.0 FT AND AT
 12 " IN REST OF PIER
 {51.0 in Cage Diameter}

CONCRETE VOLUME = 19.63 x 30.5 / 27 = 22.2 cu yds / pier

 ** WIGGINS METHOD **

 ** DETERMINE MAXIMUM LATERAL SOIL PRESSURE **
 ** AND MAXIMUM MOMENT IN THE SHAFT FOR **
 ** A DRILLED PIER FOUNDATION **
 ***** Fri Nov 30 09:33:45 2018 *****
 Ver. 2.3 NT

FORMULAS USED

$$S1 = \frac{6 \cdot P \cdot (1+N)}{D \cdot L \cdot (1-N) \cdot (1-N)}$$

$$L = (MA/P) + R + E$$

$$S2 = \frac{(N+3) \cdot (N+3) \cdot S1}{8 \cdot (R+1) \cdot (R+2)}$$

$$NL = (MA/P) + R + G$$

$$K = \frac{1 - (N^2 \cdot N)}{2 \cdot (2+N)}$$

$$N = NL / L$$

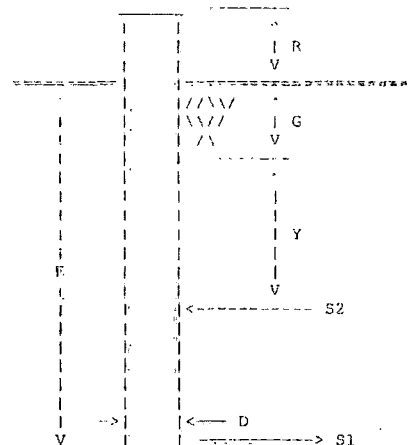
$$Y = \frac{L \cdot (1-K) - NL}{2}$$

$$SP1 = S1 / F$$

$$M = P \cdot (NL + 5/8 \cdot Y)$$

$$SP2 = S2 / (Y + G)$$

V = S1 * D * K * L / 2. or
P whichever is greater



Diameter of Pier = D = 5.00 ft
 Projection Above Grade = R = .50 ft
 Embedment Depth = E = 30.00 ft
 Depth of Soil Ignored = G = 6.50 ft

Equivalent Length of Pier = L = 30.50 ft
 Length for NO Soil Resistance = NL = 1.00 ft
 Applied Moment at Top of Pier = MA = .00 ft-k
 Shear at Top of Pier = P = 50.28 kips

MAXIMUM LATERAL SOIL PRESSURES

K = .2125
 Y = 8.51 ft

S1 = 4.09 / ksf
 S2 = 1.949 ksf
 SP1 = 13 / psi/ft
 SP2 = 130 psf/ft

MAXIMUM VALUES IN SHAFT

M = 619.39 ft-k
 V = 66.3 / kips

 ** COMPARISON DATA **

228456
 HORVATH COMMUNICATOR

BROMS ----->

SAND
 PHI = 30.0 degrees
 DENSITY = 100.00 pcf
 E = 22.07 ft
 Max. M = 576.05 ft-k
 Max. V = 175.15 kips
 Ls = 14.156 ft

CLAY
 C = 1.00 ksi
 E = 18.76 ft
 Max. M = 458.42 ft-k
 Max. V = 101.56 kips

EIA REV. E NORMAL SOIL -----> E = 13.01 ft

ETA REV. F NORMAL SOIL -----> E = 16.44 ft

*618DNAME: RCS

FILE NO. 228456

PAGE NO. 1

SHAFT REINFORCING PROGRAM VER. 91.7

DESIGNED BY: RCS
 ENG. FILE NO.: 228456
 DATE: 11/30/18

CUSTOMER: HORVATH COMMUNICATONS
 DESCRIPTION: 265' RT TOWERI-64 & US 60, KY

INPUT DATA

C = 452.11 Kips Vc = 66.37 Kips Mc = 619.39 Ft-K
 T = 366.34 Kips Vt = 66.37 Kips Mt = 619.39 Ft-K
 Fy = 60.00 Ksi Fyt = 60.00 Ksi L.F. = 1.00
 H = 60.00 In. Ds = 48.00 In. F'c = 4.50 Ksi

U = 1.00

Irs = 1

*** SHAFT CROSS SECTION IS ROUND ***

SUMMARY OF ANALYSIS

Minimum area of steel req'd. = 16.93 sq.in. (Rhomn = 0.0060)
Maximum steel area limit = 226.20 sq.in. (Rhomax = 0.0800)

CIRCULAR TIE DATA

Vu < .85*Vc/2, shear reinforcement is not required.

Use maximum tie spacing specified in A.C.I. 318
Section 7.10.5 for compression reinforcement.

DEVELOPMENT LENGTH MODIFIERS FOR TENSION AND COMPRESSION BAR DEVELOPMENT

DLMT = MODIFIER FOR TENSION DEVELOPMENT = 1.000
DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT = .313
REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS (12 in. min.)
DLMT = MODIFIER FOR TENSION DEVELOPMENT = 1.000
DLMC = MODIFIER FOR COMPRESSION DEVELOPMENT = .339
REQUIRED Ld = MODIFIER * BASIC Ld * ACI 318 MODIFIERS (12 in. min.)

EXHIBIT

E



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

Aeronautical Study No.
 2018-ASO-18307-OE

Issued Date: 10/02/2018

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 HV1326 I-64 & US 60
 Location: Mt. Sterling, KY
 Latitude: 38-05-25.25N NAD 83
 Longitude: 83-53-55.87W
 Heights: 1000 feet site elevation (SE)
 230 feet above ground level (AGL)
 1230 feet above mean sea level (AMSL)

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

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

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

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

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

This determination expires on 04/02/2020 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 2018-ASO-18307-OE.

Signature Control No: 382657113-386490936
Angelique Eersteling
Technician

(DNE)

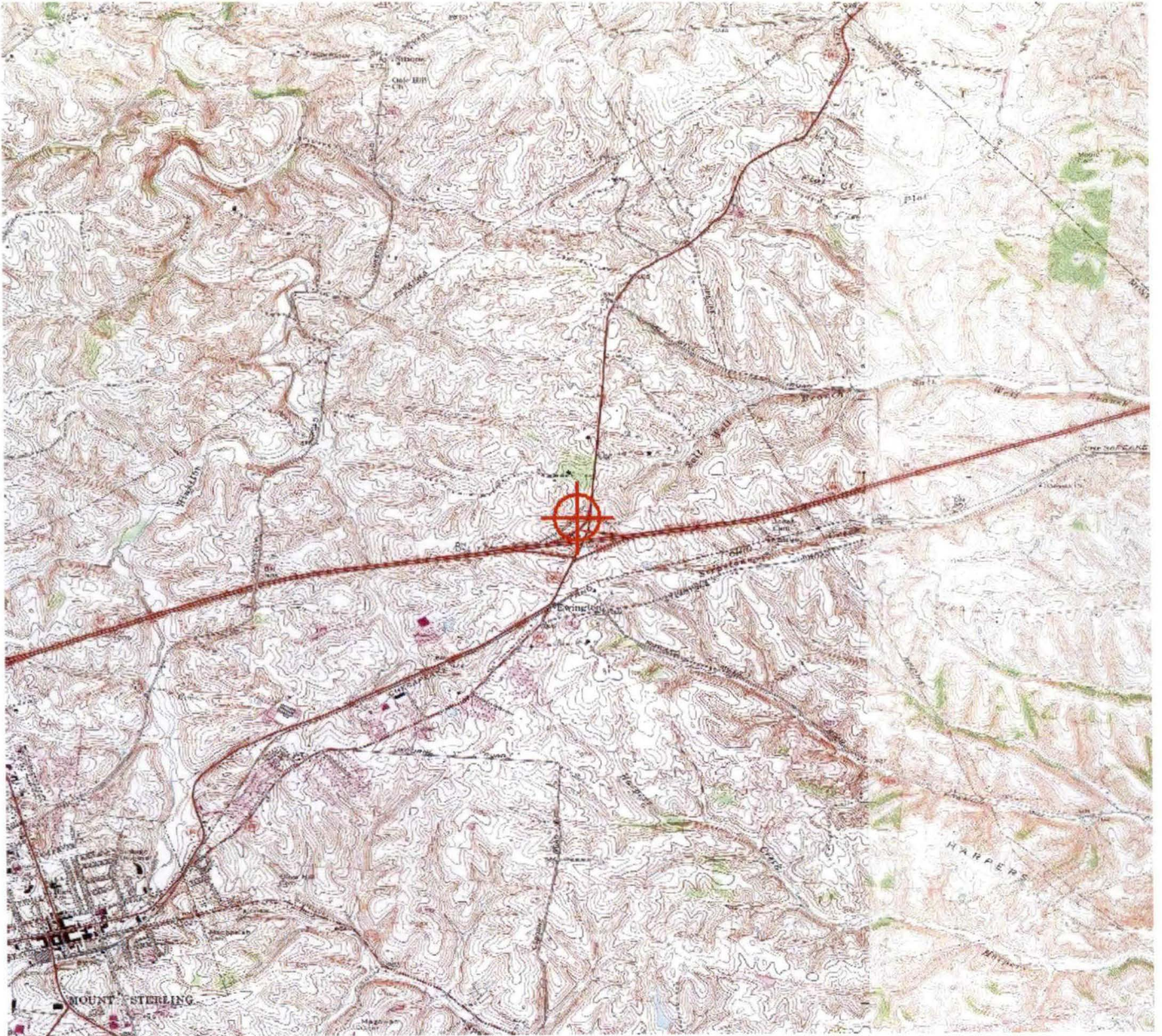
Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2018-ASO-18307-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 2018-ASO-18307-OE



EXHIBIT

F



November 15, 2018

Kentucky Airport Zoning Commission
200 Mero Street
Frankfort, KY 40601

RE: Application for Permit to Construct or Alter a Structure
HV1326 I-64 & US 60

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
Regulatory & Compliance Manager



APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

JURISDICTION

602 KAR 50:030

Section 1. The commission has zoning jurisdiction over that airspace over and around the public use and military airports within the Commonwealth which lies above the imaginary surface that extends outward and upward at one (1) of the following slopes:

- (1) 100 to one (1) for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each public use airport and military airport with at least one (1) runway 3,200 feet or more in length; or
- (2) fifty (50) to one (1) for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each public use and military airport with its longest runway less than 3,200 feet in length.

Section 2. The commission has zoning jurisdiction over the use of land and structures within public use airports within the state.

Section 3. The commission has jurisdiction from the ground upward within the limits of the primary and approach surfaces of each public use airport and military airport as depicted on airport zoning maps approved by the Kentucky Airport Zoning Commission.

Section 4. The Commission has jurisdiction over the airspace of the Commonwealth that exceeds 200 feet in height above the ground.

Section 5. The owner or person who has control over a structure which penetrates or will penetrate the airspace over which the Commission has Jurisdiction shall apply for a permit from the Commission in accordance with 602 KAR 50:090.

INSTRUCTIONS

1. "Alteration" means to increase or decrease the height of a structure or change the obstruction marking and lighting.
2. "Applicant" means the person who will own or have control over the completed structure.
3. "Certification by Applicant" shall be made by the individual who will own or control the completed structure; or a partner in a partnership; or the president or authorized officer of a corporation company, or association; or the authorized official of a body politic; or the legally designated representative of a trustee, receiver, or assignee.
4. Prepare the application and forward to the Kentucky Airport Zoning Commission, 421 Buttermilk Pike, Covington, KY 41017. For questions, telephone 859-341-2700.
5. The statutes applicable to the Kentucky Airport Commission are KRS 183.861 to 183.990 and the administrative regulations are 602 KAR Chapter 50.
6. When applicable, attach the following appendices to the application:
 - Appendix A. A 7.5 minute quadrangle topographical map prepared by the U.S. Geological Survey and the Kentucky Geological Survey with the exact location of the structure which is the subject of the application indicated thereon. (*The 7.5 minute quadrangle map may be obtained from the Kentucky Geological Survey, Department of Mines and Minerals, Lexington, KY 40506.*)
 - Appendix B. For structures on or very near to property of a public use airport, a copy of the airport layout drawing (ALP) with the exact location of the structure which is the subject of this application indicated thereon. (*The ALP may be obtained from the Chairperson of the local airport board or the Kentucky Airport Zoning Commission.*)
 - Appendix C. Copies of Federal Aviation Administration Applications (*FAA Form 7460-1*) or any orders issued by the manager, Air Traffic Division, FAA regional office.
 - Appendix D. If the applicant has indicated in item number 7 of the application that the structure will not be marked or lighted in accordance with the regulations of the Commission, the applicant shall attach a written request for a determination by the commission that the marking and lighting are not necessary. The applicant shall specifically state the reasons that the absence of marking and lighting will not impair the safety of air navigation.
 - Appendix E. The overall height in feet of the overhead transmission line or static wire above ground level or mean water level with span length 1,000 feet and over shall be depicted on a blueprint profile map.

PENALTIES

1. Persons failing to comply with the Airport Zoning Commission statutes and regulations are liable for a fine or imprisonment as set forth in KRS 183.990(3).
2. Applicants are cautioned: Noncompliance with Federal Aviation Administration Regulations may provide for further penalties.



KENTUCKY AIRPORT ZONING COMMISSION

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Horvath Communications		PHONE 574-286-5432	FAX 574-217-4357	KY AERONAUTICAL STUDY # 2018-ASO-18307-OE	
ADDRESS (street) Owingsville Road		CITY Mt. Sterling		STATE KY	ZIP 40353
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 46601
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 5/12/19 End 6/30/19	
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building <input checked="" type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input type="checkbox"/> Other		MARKING/PAINTING/LIGHTING PREFERRED <input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity <input checked="" type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other			
LATITUDE 38 ° 5 ' 25 . 25 "		LONGITUDE -83 ° 53 ' 55 . 87 "		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City Mt. Sterling County Montgomery		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT MOUNT STERLING-MONTGOMERY COUNTY			
SITE ELEVATION (AMSL, feet) 1000 ft		TOTAL STRUCTURE HEIGHT (AGL, feet) 275 ft		CURRENT (FAA aeronautical study #) 2018-ASO-18307-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1275 ft				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 4.28 miles				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) southwest					
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 survey					
DESCRIPTION OF PROPOSAL Proposing to build a 265' tall self-support tower with a 10' lightning rod (275' overall)					
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? 8/24/18					
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 11/15/18	
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC			
<input type="checkbox"/> Approved	SIGNATURE			DATE	
<input type="checkbox"/> Disapproved					



August 13, 2018

POD Project #: 18-26636

HORVATH COMMUNICATIONS

1A Letter

Site Name: **I-64 & US 60**
Site Number: **HV1326**
Site Address: **Owingsville Road**
Mt Sterling, KY 40353
County: **Montgomery County**
USGS Quad Map: **Mount Sterling**

Site Coordinates:

NAD 83 (2011)

Latitude: **38° 05' 25.25"**
Longitude: **83° 53' 55.87"**

Site Elevation (NAVD88): **1000'± AMSL**

The horizontal coordinates are per the North American Datum of 1983 (2011) Kentucky State Plane Single Zone. Coordinates are shown as degrees, minutes and seconds which were derived from KDOT VRS RTK Network.

The vertical elevations are per the North American Vertical Datum of 1988, which were derived from KDOT VRS RTK Network.

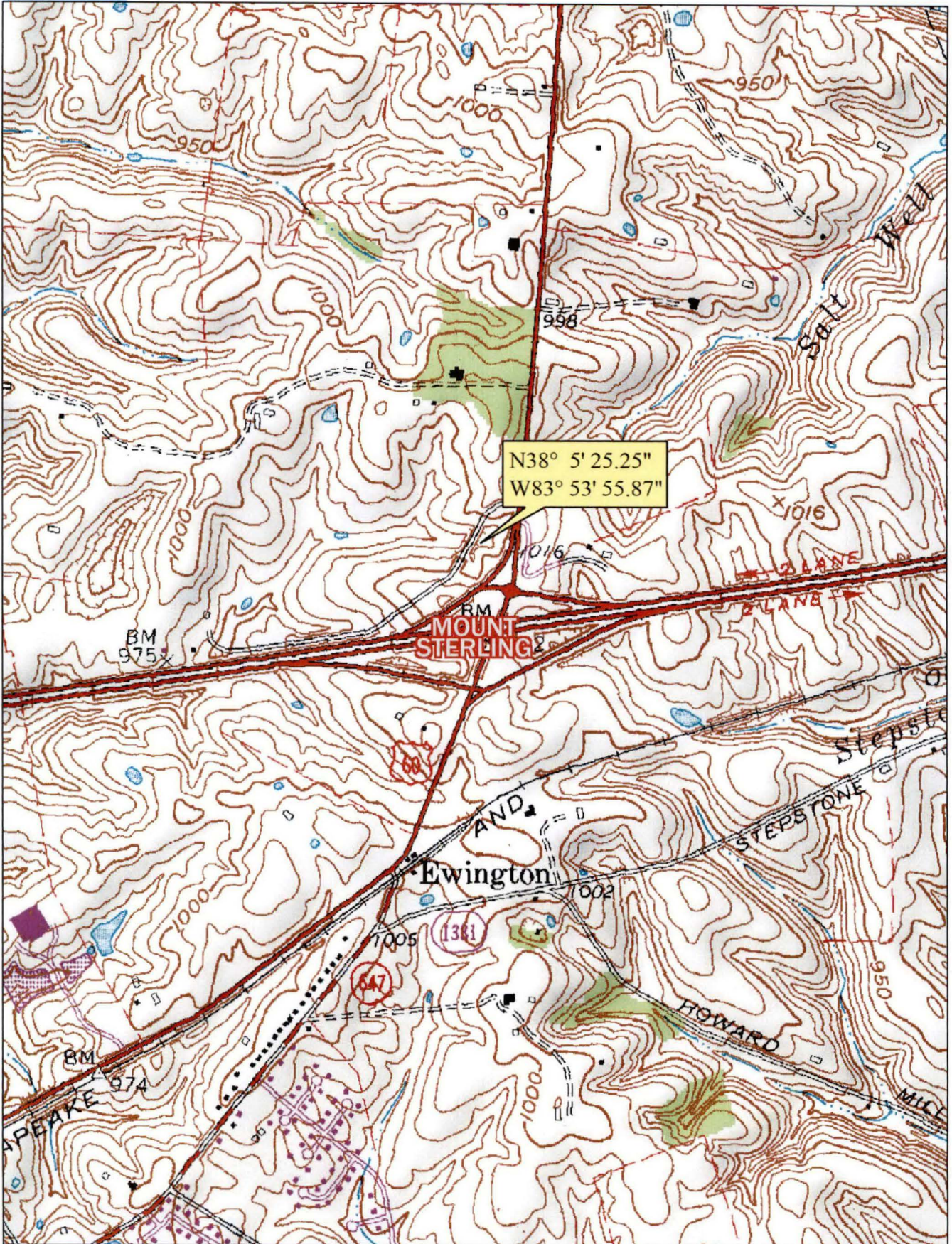
I hereby certify that the horizontal and vertical locations are accurate to within 1A reporting requirements (20'± horizontally and 3'± feet vertically). The type of GPS survey utilized was network adjusted real time kinematic (KDOT VRS RTK Network) with the orthometric height computed using GEOID12A.

The above-mentioned coordinates were established using "Spectra Precision Epoch 50 receivers" and are tied to the National Geodetic Reference System established by the National Geodetic Survey.

Consultant


Mark E. Patterson, PLS
Power of Design Group, LLC
11490 Bluegrass Parkway
Louisville, KY 40299





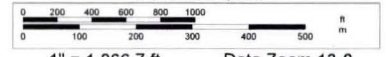
Data use subject to license.

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www.delorme.com



Scale 1 : 12,800



1" = 1,066.7 ft

Data Zoom 13-0

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 0.04', FOR A PRECISION OF 1:41,725 AND HAS NOT BEEN ADJUSTED.

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

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

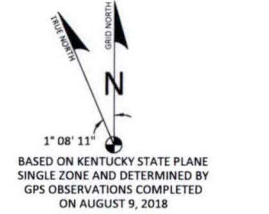
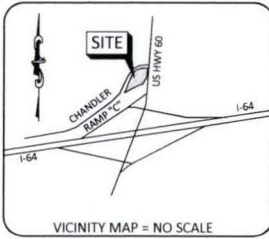
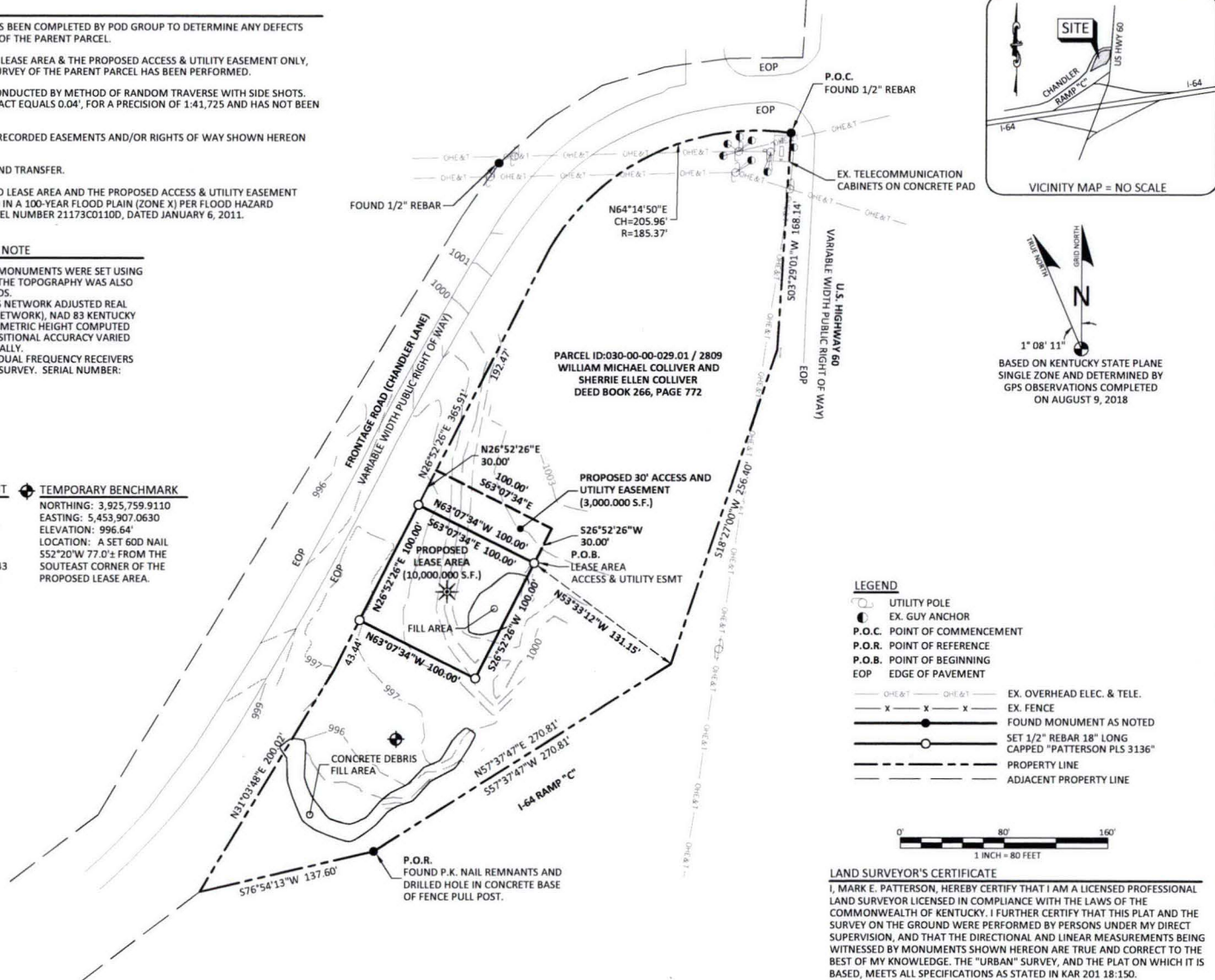
THE PARENT PARCEL, THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21173C0110D, DATED JANUARY 6, 2011.

GLOBAL POSITIONING SYSTEMS NOTE

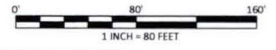
1. RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE TOPOGRAPHY WAS ALSO COLLECTED USING GPS METHODS.
2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KYDOT VRS NETWORK), MAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.08' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL-FREQUENCY RECEIVERS WERE USED CONDUCTING THE SURVEY. SERIAL NUMBER: 532540009

FAA COORDINATE POINT
 NAD 83
 LATITUDE: 38°05'25.25"
 LONGITUDE: 83°53'55.87"
 NAVD 88
 ELEVATION: 1000± AMSL
 NORTHING: 3,925,874.1743
 EASTING: 5,453,946.0212

TEMPORARY BENCHMARK
 NORTHING: 3,925,759.9110
 EASTING: 5,453,907.0630
 ELEVATION: 996.64'
 LOCATION: A SET 60D NAIL 552°20'W 77.0± FROM THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA.



- LEGEND**
- UTILITY POLE
 - EX. GUY ANCHOR
 - P.O.C. POINT OF COMMENCEMENT
 - P.O.R. POINT OF REFERENCE
 - P.O.B. POINT OF BEGINNING
 - EOP EDGE OF PAVEMENT
 - 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, PLS #3136 DATE



312 WEST COLFAX AVE
 SOUTH BEND, IN 46601
 574.237.0464

SURVEY

REV.	DATE	DESCRIPTION
A	8.13.18	PRELIMINARY ISSUE

SITE INFORMATION:
 I-64 & US 60
 OWINGSVILLE ROAD
 MT STERLING, KY 40353
 MONTGOMERY COUNTY
 TAX PARCEL NUMBER:
 030-00-00-029.01 / 2809
 PROPERTY OWNER:
 WILLIAM MICHAEL COLLIVER AND
 SHERRIE ELLEN COLLIVER
 1300 COUNTRY MEADOWS
 MT STERLING, KY 40353
 SOURCE OF TITLE:
 DEED BOOK 266, PAGE 772

SITE NUMBER:
 HV1326

VERIZON WIRELESS SITE NAME:
 LV I-64 AND US 60

POD NUMBER: 18-26636
DRAWN BY: TMD
CHECKED BY: MEP
SURVEY DATE: 8.09.18
PLAT DATE: 8.13.18

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

SHEET NUMBER: (0 pages)
B-1





SURVEY

REV.	DATE	DESCRIPTION
A	8.13.18	PRELIMINARY ISSUE

SITE INFORMATION:
I-64 & US 60
 OWINGSVILLE ROAD
 MT STERLING, KY 40353
 MONTGOMERY COUNTY
 TAX PARCEL NUMBER:
 030-00-00-029.01 / 2809
 PROPERTY OWNER:
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 1300 COUNTRY MEADOWS
 MT STERLING, KY 40353
 SOURCE OF TITLE:
 DEED BOOK 266, PAGE 772

SITE NUMBER:
 HV1326
 VERIZON WIRELESS SITE NAME:
 LV I-64 AND US 60

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 DRAWN BY: TMD
 CHECKED BY: MEP
 SURVEY DATE: 8.09.18
 PLAT DATE: 8.13.18

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

SHEET NUMBER: (0 pages)
B-1.1

LEGAL DESCRIPTIONS

PROPOSED LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, 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 AUGUST 9, 2018.

COMMENCING AT A FOUND 1/2" REBAR IN THE NORTHEASTERN MOST BOUNDARY CORNER OF THE PARCEL CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, SAID POINT BEING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60 AND SOUTH RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, S03°29'01"W 168.14; THENCE S18°27'00"W 256.40'; SAID POINT BEING REFERENCED BY FOUND P.K. NAIL REMNANTS AND DRILLED HOLE IN CONCRETE BASE OF FENCE PULL POST; THENCE LEAVING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, TRAVERSING ACROSS THE LAND OF COLLIVER AFOREMENTIONED, N53°33'12"W 131.15' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE S26°52'26"W 100.00' TO A SET IPC; THENCE N63°07'34"W 100.00' TO A SET IPC IN THE EAST RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE COMMON LINE OF COLLIVER AND THE RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE), N26°52'26"E 100.00' TO A SET IPC; THENCE LEAVING SAID COMMON LINE, TRAVERSING ACROSS THE LAND OF COLLIVER, S63°07'34"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 9, 2018.

PROPOSED 30' ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED 30' ACCESS & UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, 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 AUGUST 9, 2018.

COMMENCING AT A FOUND 1/2" REBAR IN THE NORTHEASTERN MOST BOUNDARY CORNER OF THE PARCEL CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, SAID POINT BEING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60 AND SOUTH RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, S03°29'01"W 168.14; THENCE S18°27'00"W 256.40'; SAID POINT BEING REFERENCED BY FOUND P.K. NAIL REMNANTS AND DRILLED HOLE IN CONCRETE BASE OF FENCE PULL POST; THENCE LEAVING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, TRAVERSING ACROSS THE LAND OF COLLIVER AFOREMENTIONED, N53°33'12"W 131.15' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE ALONG THE NORTH LINE OF SAID LEASE AREA, N63°07'34"W 100.00' TO A SET IPC IN THE EAST RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE COMMON LINE OF COLLIVER AND THE RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE), N26°52'26"E 30.00'; THENCE LEAVING SAID COMMON LINE, TRAVERSING ACROSS THE LAND OF COLLIVER, S63°07'34"E 100.00'; THENCE S26°52'26"W 30.00' TO THE POINT OF BEGINNING CONTAINING 3,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 9, 2018.

PARENT PARCEL LEGAL DESCRIPTION DEED BOOK 266, PAGE 772 (NOT FIELD SURVEYED)

BEING ALL OF TRACT NO. 4 AS MORE PARTICULARLY SHOWN AND DESCRIBED ON THE RECORD PLAT OF LONGWOOD FARM, MONTGOMERY COUNTY, KENTUCKY, WHICH PLAT IS OF RECORD IN PLAT CABINET A, SLIDE 49A, MONTGOMERY COUNTY COURT CLERK'S OFFICE, TO WHICH PLAT REFERENCE IS HEREBY MADE FOR A PARTICULAR DESCRIPTION OF THE PROPERTY HEREBY CONVEYED.

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, PLS #3136 DATE

EXHIBIT

G



GEOTECHNICAL INVESTIGATION REPORT

November 27, 2018

Prepared For:

TRILEAF



**I-64 & US 60
HV1326**

Proposed 230-Foot Self-Supporting Tower

Owingsville Road, Mt Sterling (Montgomery County), Kentucky 40353
Latitude N 38° 05' 25.3" Longitude W 83° 53' 55.9"

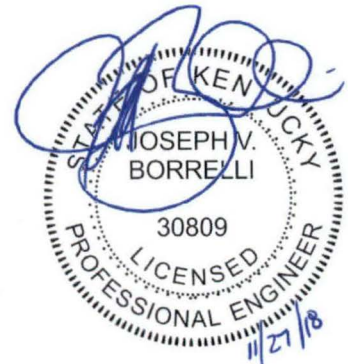
Delta Oaks Group Project GEO18-03532-08
Revision 0

Performed By:

Erin Benson, E.I.

Reviewed By:

Joseph V. Borrelli, Jr., P.E.



INTRODUCTION

This geotechnical investigation report has been completed for the proposed 230-foot self-supporting tower located at Owingsville Road in Mt Sterling (Montgomery County), Kentucky. The purpose of this investigation was to provide engineering recommendations and subsurface condition data at the proposed tower location. A geotechnical engineering interpretation of the collected information was completed and utilized to suggest design parameters regarding the adequacy of the structure's proposed foundation capacity under various loading conditions. This report provides the scope of the geotechnical investigation; geologic material identification; results of the geotechnical laboratory testing; and design parameter recommendations for use in the design of the telecommunication facility's foundation and site development.

SITE CONDITION SUMMARY

The proposed tower and compound are located in a grassy lot exhibiting a generally flat topography across the tower compound and subject property.

REFERENCES

- Preliminary Survey, prepared by Power of Design, dated August 13, 2018
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of five mechanical soil test borings to termination depths ranging from 10.5 to 31.0 feet bgs. Samples were obtained at selected intervals in accordance with ASTM D 1586. The sampling was conducted at the staked centerline of the proposed tower. Soil samples were transported to our laboratory and classified by a geotechnical engineer in accordance with ASTM D 2487. A detailed breakdown of the material encountered in our subsurface field investigation can be found in the boring logs presented in the Appendix of this report.

A boring plan portraying the spatial location of the boring in relation to the proposed tower, tower compound and immediate surrounding area can be found in the Appendix.

SUBSURFACE CONDITION SUMMARY

The following provides a general overview of the site's subsurface conditions based on the data obtained during our field investigation.

FILL

Fill material was encountered during the subsurface field investigation from the existing ground surface to a depth ranging from 4.0 to 10.5 feet bgs. The fill material included sandy clay, silty sand, clayey sand, and clayey gravel.

SOIL

The residual soil encountered in the subsurface field investigation began at a depth ranging from 4.0 to 10.5 feet bgs in the boring and consisted of sandy clay. The materials ranged from a firm to hard cohesion.

Auger advancement refusal was encountered during the subsurface field investigation at a depth of 31.0 feet bgs in boring B-5. Auger refusal was not encountered in soil borings B-1 through B-4.

ROCK

Rock was not encountered during the subsurface field investigation.

SUBSURFACE WATER

At the time of drilling, subsurface water was not encountered during the subsurface investigation. However, subsurface water elevations can fluctuate throughout the year due to variations in climate, hydraulic parameters, nearby construction activity and other factors.

FROST PENETRATION

The frost penetration depth for Montgomery County, Kentucky is 30 inches (2.5 feet).

CORROSIVITY

Soil resistivity testing was performed in accordance with ASTM G57. Test results can be found in the Appendix of this report.



FOUNDATION DESIGN SUMMARY

In consideration of the provided tower parameters and the determined soil characteristics, Delta Oaks Group recommends utilizing a drilled shaft foundation for the proposed structure due to the presence of fill material. The strength parameters presented in the following sections can be utilized for design of the foundation.

GENERAL SUBSURFACE STRENGTH PARAMETERS

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-1	0.0 – 10.5	FILL	105	-	-

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-2	0.0 – 4.0	FILL	105	-	-
	4.0 – 6.5	CL	110	0	1250
	6.5 – 10.5	CL	105	0	750

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-3	0.0 – 10.5	FILL	105	-	-

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-4	0.0 – 10.5	FILL	105	-	-



Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-5	0.0 – 6.5	FILL	105	-	-
	6.5 – 13.5	CL	105	0	600
	13.5 – 18.5	CL	105	0	1000
	18.5 – 23.5	CL	120	0	3500
	23.5 – 28.5	CL	120	0	3000
	28.5 – 31.0	CL	130	0	4000

- The unit weight provided assumes overburden soil was compacted to a minimum of 95% of the maximum dry density as obtained by the standard Proctor method (ASTM D 698) and maintained a moisture content within 3 percent of optimum
- The values provided for phi angle and cohesion should be considered ultimate.



**SUBSURFACE STRENGTH PARAMETERS –
DRILLED SHAFT TOWER AND SUPPORT STRUCTURE FOUNDATIONS**

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction - Uplift (psf)
B-5	0.0 – 6.5	-	-	-
	6.5 – 13.5	6,070	330	330
	13.5 – 18.5	24,080	610	610
	18.5 – 23.5	26,760	1,870	1,870
	23.5 – 28.5	32,270	1,650	1,650
	28.5 – 31.0	34,810	2,045	2,045

- The top 6.5 feet of soil should be ignored due to the frost penetration, the potential soil disturbance during construction, and the presence of fill material.
- The bearing capacity can be increased by 1/3 for transient loading.
- The values presented assume the concrete is cast-in-place against earth walls and any casing utilized during construction of the foundation was removed.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.

CONSTRUCTION

SITE DEVELOPMENT

The proposed access road and tower compound should be evaluated by a Geotechnical Engineer, or their representative, after the removal or "cutting" of the areas to design elevation but prior to the placement of any structural fill material to verify the presence of unsuitable or weak material. Unsuitable or weak materials should be undercut to a suitable base material as determined by a Geotechnical Engineer, or their representative. Backfill of any undercut area(s) should be conducted in accordance with the recommendations provided in the *STRUCTURAL FILL PLACEMENT* section of this report.

Excavations should be sloped or shored in accordance and compliance with OSHA 29 CFR Part 1926, Excavation Trench Safety Standards as well as any additional local, state and federal regulations.

STRUCTURAL FILL PLACEMENT

Structural fill materials should be verified, prior to utilization, to have a minimum unit weight of 110 pcf (pounds per cubic foot) when compacted to a minimum of 95% of its maximum dry density and within plus or minus 3 percentage points of optimum moisture. Materials utilized should not contain more than 5 percent by weight of organic matter, waste, debris or any otherwise deleterious materials. The Liquid Limit should be no greater than 40 with a Plasticity Index no greater than 20. Structural fill material should contain a maximum particle size of 4 inches with 20 percent or less of the material having a particle size between 2 and 4 inches. Backfill should be placed in thin horizontal lifts not to exceed 8 inches (loose) in large grading areas and 4 inches (loose) where small handheld or walk-behind compaction equipment will be utilized. The potential suitability of on-site materials to be utilized as fill should be evaluated by a Geotechnical Engineer, or their representative just prior to construction.

During construction structural fill placement should be monitored and tested. This should include at minimum, visual observation as well as a sufficient amount of in-place field density tests by a Geotechnical Engineer, or their representative. Materials should be compacted to a minimum of 95% of the maximum dry density as determined by ASTM D 698 (standard Proctor method). Moisture contents should be maintained to within plus or minus 3 percentage points of the optimum moisture content.

DRILLED SHAFT FOUNDATIONS

Drilled shaft foundations (caissons) are typically installed utilizing an earth auger to reach the design depth of the foundation. Specialized roller bits or core bits can be utilized to penetrate boulders or rock. The equipment utilized should have cutting teeth to result in an excavation with little or no soil smeared or caked on the excavation sides with spiral-like corrugated walls. The drilled shaft design diameter should be maintained throughout the excavation with a plumbness tolerance of 2 percent of the length and an eccentricity tolerance of 3 inches from plan location. A removable steel casing can be installed in the shaft to prevent caving of the excavation sides due to soil relaxation. Upon completion of the drilling and casing placement, loose soils and subsurface water greater than 3-inches in depth should be removed from the bottom of the excavation for the "dry" installation method. The drilled shaft installation should be evaluated by a Geotechnical Engineer, or their representative, to verify suitable end bearing conditions, design diameter and bottom cleanliness. The



evaluation should be conducted immediately prior to as well as during concrete placement operations.

The drilled shaft should be concreted as soon as reasonably practical after excavation to reduce the deterioration of the supporting soils to prevent potential caving and water intrusion. A concrete mix design with a slump of 6 to 8 inches employed in conjunction with the design concrete compressive strength should be utilized for placement. Super plasticizer may be required to obtain the recommended slump range. During placement, the concrete may fall freely through the open area in the reinforcing steel cage provided it does not strike the reinforcing steel and/or the casing prior to reaching the bottom of the excavation. The removable steel casing should be extracted as concrete is placed. During steel casing removal a head of concrete should be maintained above the bottom of the casing to prevent soil and water intrusion into the concrete below the bottom of the casing.

If subsurface water is anticipated and/or weak soil layers are encountered drilled shafts are typically installed utilizing the "wet" method by excavating beneath a drilling mud slurry. The drilling mud slurry is added to the drilled shaft excavation after groundwater has been encountered and/or the sides of the excavation are observed to be caving or sloughing. Additional inspection by a Geotechnical Engineer, or their representative, during the "wet" method should consist of verifying maintenance of sufficient slurry head, monitoring the specific gravity, pH and sand content of the drilling slurry, and monitoring any changes in the depth of the excavation between initial approval and just prior to concreting.

Concrete placement utilizing the "wet" method is conducted through a tremie pipe at the bottom of the excavation with the drilling mud slurry level maintained at a minimum of 5 feet or one shaft diameter, whichever is greater, above the ground water elevation. The bottom of the tremie should be set one tremie pipe diameter above the excavation. A closure flap at the bottom of the tremie or a sliding plug introduced into the tremie before the concrete is recommended to reduce the potential contamination of the concrete by the drilling mud slurry. The bottom of the tremie must be maintained in the concrete during placement. Additional concrete should be placed through the tremie causing the slurry to overflow from the excavation in order to reduce the potential for the development of "slurry pockets" remaining in the drilled shaft.



QUALIFICATIONS

The design parameters and conclusions provided in this report have been determined in accordance with generally accepted geotechnical engineering practices and are considered applicable to a rational degree of engineering certainty based on the data available at the time of report preparation and our practice in this geographic region. All recommendations and supporting calculations were prepared based on the data available at the time of report preparation and knowledge of typical geotechnical parameters in the applicable geographic region.

The subsurface conditions used in the determination of the design recommendations contained in this report are based on interpretation of subsurface data obtained at specific boring locations. Irrespective of the thoroughness of the subsurface investigation, the potential exists that conditions between borings will differ from those at the specific boring locations, that conditions are not as anticipated during the original analysis, or that the construction process has altered the soil conditions. That potential is significantly increased in locations where existing fill materials are encountered. Additionally, the nature and extent of these variations may not be evident until the commencement of construction. Therefore, a geotechnical engineer, or their representative, should observe construction practices to confirm that the site conditions do not differ from those conditions anticipated in design. If such variations are encountered, Delta Oaks Group should be contacted immediately in order to provide revisions and/or additional site exploration as necessary.

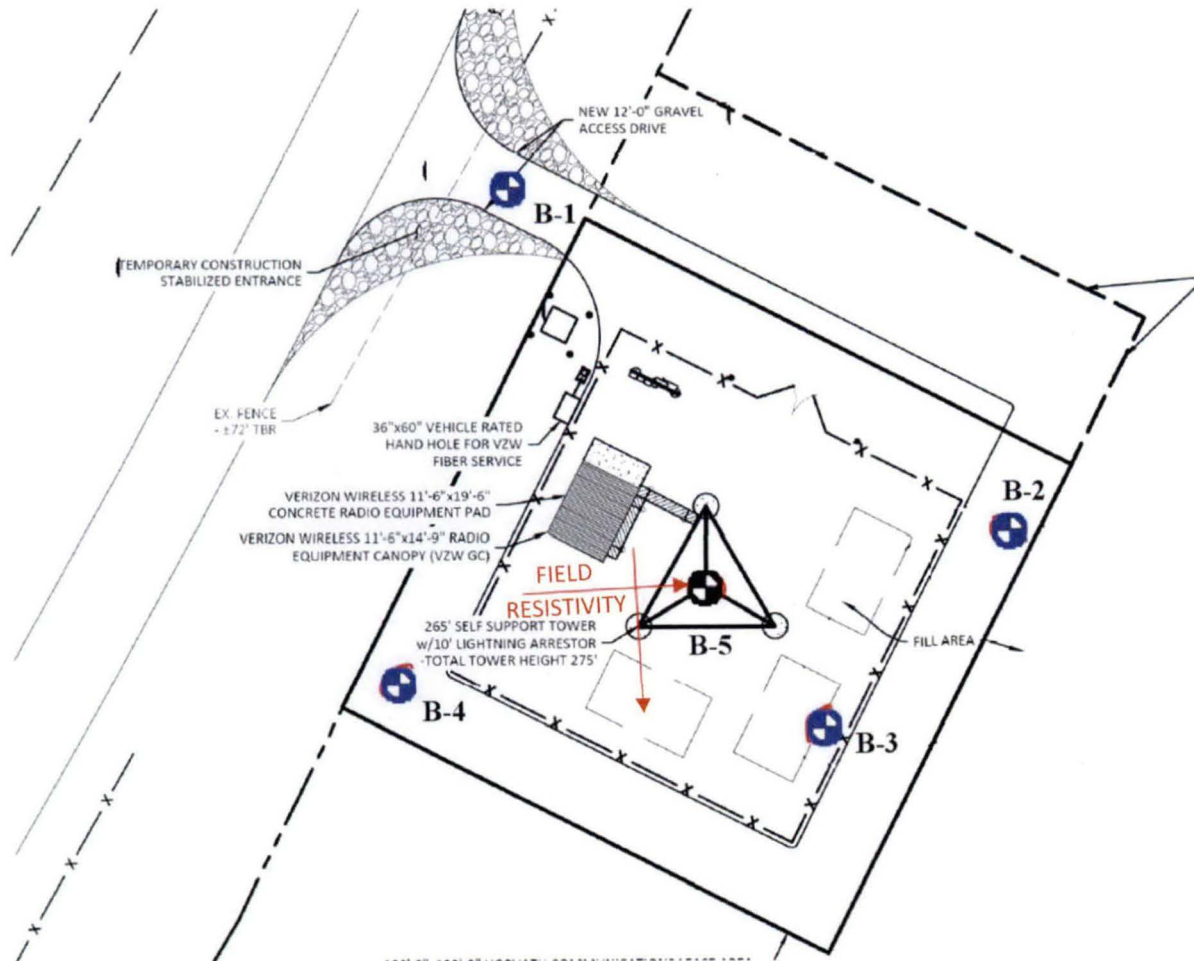
Samples obtained during our subsurface field investigation will be retained by Delta Oaks Group for a period of 30 days unless otherwise instructed by Trileaf. No warranty, expressed or implied, is presented.

Delta Oaks Group appreciates the opportunity to be of service for this Geotechnical Investigation Report. Please do not hesitate to contact Delta Oaks Group with any questions or should you require additional service on this project.



APPENDIX

BORING PLAN





Field Resistivity Data Sheet

ASTM G57-06

DOG Project #: GEO18-03532-08 Tested By: JSS Date: 11/12/2018
Site Name: I-64 & US 60 Checked By: JVB Date: 11/12/2018
Site ID: HV1326 Gnd Elevation: 1002 ft
Location: Mt Sterling, KY

Direction	Spacing (feet)	Spacing (cm)	Resistance (ohms)	Resistivity (ohm-cm)
NE-SW	10	3050	1.4	26829
	15	4575	1.2	34495
	20	6100	1.1	42160
E-W	10	3050	1.85	35453
	15	4575	1.2	34495
	20	6100	1.1	42160
			Average	35932

EXHIBIT

H

DIRECTIONS TO CELL TOWER SITE

Directions prepared by:

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

From the Montgomery County Courthouse (One Court Street, Mt. Sterling, Kentucky 40353):

1. Travel South on Broadway Street for 223 feet.
2. Turn left (East) on to West Main Street/US-60.
3. Continue on US-60 for 3.8 miles.
4. Turn left onto Chandler Lane.
5. Travel approximately 230 feet.
6. The site is on the left, in the area between Chandler Lane and US-60.

EXHIBIT

I

OPTION AND LEASE AGREEMENT

This Option and Lease Agreement ("Agreement" or "Lease") is made and entered into this 25th day of OCTOBER, 2018 by and between William Michael Colliver and Sherrie Ellen Colliver, his wife, having a mailing address of 539 E Main Street, Mt. Sterling, Kentucky 40353 ("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 10000 square feet and located at ±Owingsville Road, Mt. Sterling, Kentucky 40353 (38° 5' 25.68" / -85° 53' 54.64") 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, 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 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.

Site Name: HV1326 I-64 & US60

(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: William Michael Colliver and Sherrie Ellen Colliver, his wife
539 E Main Street
Mt. Sterling, Kentucky 40353
ATTN: Michael Colliver

Landlord's Payee: William Michael and Sherrie Ellen Colliver
539 E. Main Street
Mt. Sterling, Kentucky 40353

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 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.

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.

Site Name: HV1326 I-64 & US60

{Signatures to follow}

Site Name: HV1326 I-64 & US60

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


LANDLORD

William Michael Colliver and Sherrie Ellen Colliver, his wife

By: 

Print Name: William Michael Colliver

Date: 10/22/18

By: 

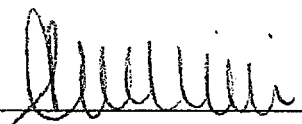
Print Name: Sherrie Ellen Colliver

Date: 10/22/18

TENANT

HORVATH TOWERS V, LLC

A DELAWARE LIMITED LIABILITY COMPANY

Signed: 

Print Name: Erin Moskwinski

Title: Vice President CMO

Date: 10.25.18

Site Name: HV1326 I-64 & US60

Exhibit A

Description of Property

PARENT PARCEL

PARCEL NO.: 030-00-00-029.01

PROPERTY ADDRESS: Owingsville Road, Mt. Sterling, Kentucky 40353

PARENT PARCEL LEGAL DESCRIPTION DEED BOOK 266, PAGE 772 (NOT FIELD SURVEYED)

BEING ALL OF TRACT NO. 4 AS MORE PARTICULARLY SHOWN AND DESCRIBED ON THE RECORD PLAT OF LONGWOOD FARM, MONTGOMERY COUNTY, KENTUCKY, WHICH PLAT IS OF RECORD IN PLAT CABINET A, SLIDE 49A, MONTGOMERY COUNTY COURT CLERK'S OFFICE, TO WHICH PLAT REFERENCE IS HEREBY MADE FOR A PARTICULAR DESCRIPTION OF THE PROPERTY HEREBY CONVEYED.

Site Name: HV1326 I-64 & US60

Exhibit B

Site Sketch/Survey of Leased Premises

SEE ATTACHED

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 0.04', FOR A PRECISION OF 1:41,725 AND HAS NOT BEEN ADJUSTED.

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

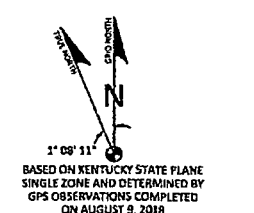
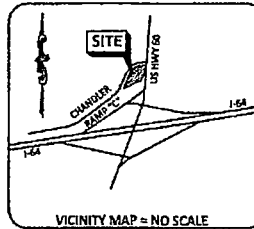
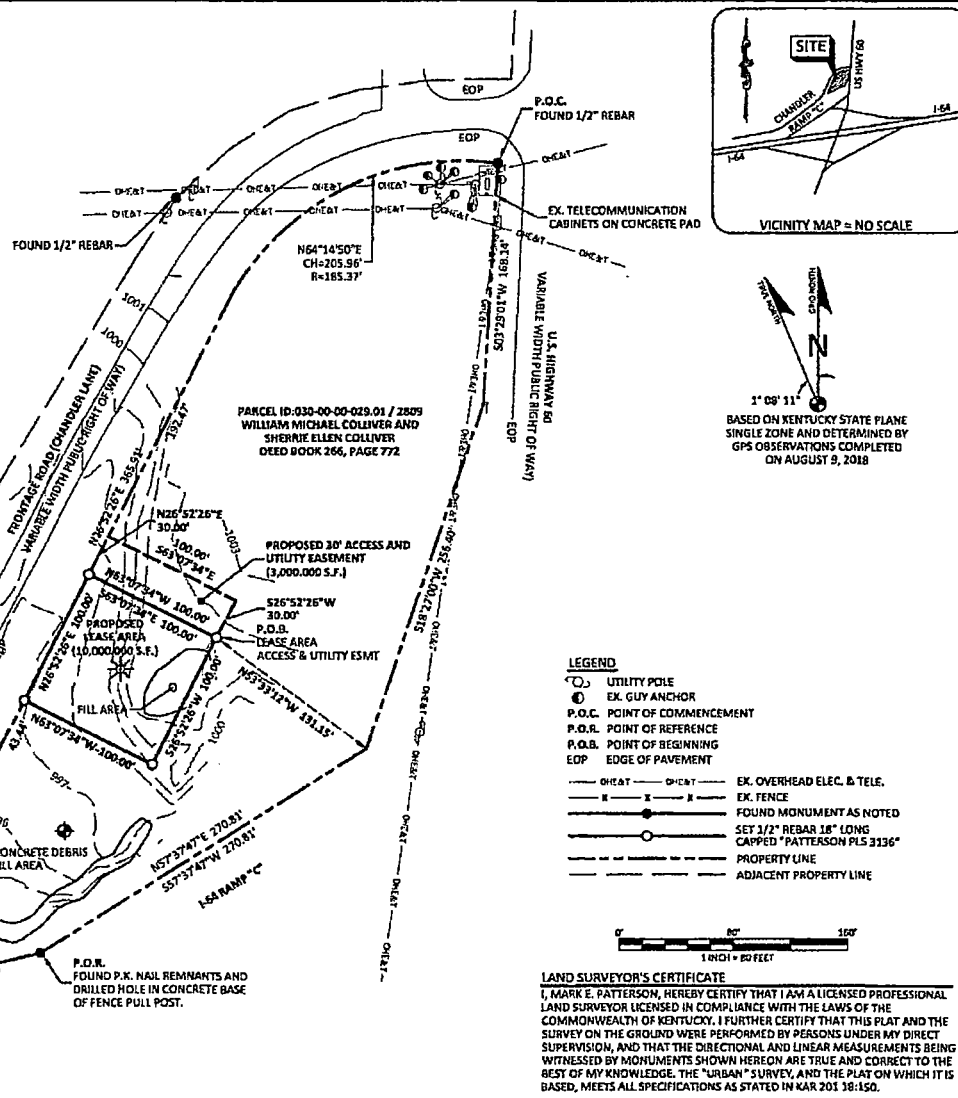
THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

THE PARENT PARCEL, THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 23173C0110D, DATED JANUARY 6, 2011.

GLOBAL POSITIONING SYSTEMS NOTE

1. RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE TOPOGRAPHY WAS ALSO COLLECTED USING GPS METHODS.
2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KRYPTOS VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04" TO 0.08" HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED CONDUCTING THE SURVEY. SERIAL NUMBER: 5325400009

FAA COORDINATE POINT NAD 83 LATITUDE: 38°05'25.25" LONGITUDE: 83°53'55.87" NAVD 88 ELEVATION: 1000.2 AMSL NORTHING: 3,925,874.1743 EASTING: 5,453,346.0212	TEMPORARY BENCHMARK NORTHING: 3,925,759.9110 EASTING: 5,453,907.0630 ELEVATION: 896.64' LOCATION: A SET 600' NAIL 53°2'20"W 77.0'± FROM THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA.
--	--



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 201:38-150.

MARK PATTERSON, PLS #3136 DATE _____

11400 BLUEGRASS PARWAY
 LOUISVILLE, KY 40327
 502-437-3122

312 WEST COLFAX AVE
 SOUTH BEND, IN 46601
 574.237.0464

SURVEY

REV.	DATE	DESCRIPTION
A	8.13.18	PRELIMINARY ISSUE

SITE INFORMATION:
1-64 & US 60
 OWINGSVILLE ROAD
 MT. STERLING, KY 40359
 MONTGOMERY COUNTY
 TAX PARCEL NUMBER:
 030-00-00-029.01 / 2809

PROPERTY OWNER:
 WILLIAM MICHAEL COLLIVER AND
 SHERRIE ELLEN COLLIVER
 3300 COUNTRY MEADOWS
 MT. STERLING, KY 40359

SOURCE OF TITLE:
 DEED BOOK 266, PAGE 772

SITE NUMBER:
 HVI326

VERIZON WIRELESS SITE NAME:
 LV 1-64 AND US 60

POD NUMBER: 1B-26636
 DRAWN BY: TMD
 CHECKED BY: MEP
 SURVEY DATE: 8.09.18
 FLAT DATE: 8.13.18

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

SHEET NUMBER: (0 pages)
B-1

LEGAL DESCRIPTIONS

PROPOSED LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, 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 AUGUST 9, 2018.

COMMENCING AT A FOUND 1/2" REBAR IN THE NORTHEASTERN MOST BOUNDARY CORNER OF THE PARCEL CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, SAID POINT BEING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60 AND SOUTH RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, S03°29'01"W 168.14'; THENCE S18°27'00"W 256.40', SAID POINT BEING REFERENCED BY FOUND P.K. NAIL REMNANTS AND DRILLED HOLE IN CONCRETE BASE OF FENCE FULL POST; THENCE LEAVING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, TRAVERSING ACROSS THE LAND OF COLLIVER AFOREMENTIONED, N53°53'12"W 131.15' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3130", HEREAFTER REFERRED TO AS A "SET IPC", IN THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE S26°52'26"W 100.00' TO A SET IPC; THENCE N63°07'34"W 100.00' TO A SET IPC IN THE EAST RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE COMMON LINE OF COLLIVER AND THE RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE), N26°52'26"E 30.00'; THENCE LEAVING SAID COMMON LINE, TRAVERSING ACROSS THE LAND OF COLLIVER, S63°07'34"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 9, 2018.

PROPOSED 30' ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED 30' ACCESS & UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, 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 AUGUST 9, 2018.

COMMENCING AT A FOUND 1/2" REBAR IN THE NORTHEASTERN MOST BOUNDARY CORNER OF THE PARCEL CONVEYED TO WILLIAM MICHAEL COLLIVER AND SHERRIE ELLEN COLLIVER AS DESCRIBED IN DEED BOOK 266, PAGE 772, PARCEL ID: 030-00-00-029.01 / 2809, SAID POINT BEING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60 AND SOUTH RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, S03°29'01"W 168.14'; THENCE S18°27'00"W 256.40', SAID POINT BEING REFERENCED BY FOUND P.K. NAIL REMNANTS AND DRILLED HOLE IN CONCRETE BASE OF FENCE FULL POST; THENCE LEAVING THE WEST RIGHT OF WAY LINE OF U.S. HIGHWAY 60, TRAVERSING ACROSS THE LAND OF COLLIVER AFOREMENTIONED, N53°33'12"W 131.15' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE ALONG THE NORTH LINE OF SAID LEASE AREA, N63°07'34"W 100.00' TO A SET IPC IN THE EAST RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE); THENCE ALONG THE COMMON LINE OF COLLIVER AND THE RIGHT OF WAY LINE OF THE FRONTAGE ROAD (CHANDLER LANE), N26°52'26"E 30.00'; THENCE LEAVING SAID COMMON LINE, TRAVERSING ACROSS THE LAND OF COLLIVER, S63°07'34"E 100.00'; THENCE S26°52'15"W 30.00' TO THE POINT OF BEGINNING CONTAINING 3,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 9, 2018.

PARENT PARCEL LEGAL DESCRIPTION DEED BOOK 266, PAGE 772 (NOT FIELD SURVEYED)

BEING ALL OF TRACT NO. 4 AS MORE PARTICULARLY SHOWN AND DESCRIBED ON THE RECORD PLAT OF LONGWOOD FARM, MONTGOMERY COUNTY, KENTUCKY, WHICH PLAT IS OF RECORD IN PLAT CABINET A, SUEDE 45A, MONTGOMERY COUNTY COURT CLERK'S OFFICE, TO WHICH PLAT REFERENCE IS HEREBY MADE FOR A PARTICULAR DESCRIPTION OF THE PROPERTY HEREBY CONVEYED.

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, PLS #3136

DATE



SURVEY

REV.	DATE	DESCRIPTION
A	8.13.18	PRELIMINARY ISSUE

SITE INFORMATION:
1-64 & US 60
 OWINGSVILLE ROAD
 MT STERLING, KY 40353
 MONTGOMERY COUNTY
 TAX PARCEL NUMBER:
 030-00-00-029.01 / 2809
 PROPERTY OWNER:
 WILLIAM MICHAEL COLLIVER AND
 SHERRIE ELLEN COLLIVER
 1300 COUNTRY MEADOWS
 MT STERLING, KY 40353
 SOURCE OF TITLE:
 DEED BOOK 266, PAGE 772

SITE NUMBER:
 HV1326
VEIZON WIRELESS SITE NAME:
 LV 1-64 AND US 60

POD NUMBER: 18-26636
DRAWN BY: TMD
CHECKED BY: MEP
SURVEY DATE: 8.09.18
PLAT DATE: 8.13.18

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

SHEET NUMBER: (0 page(s))
B-1.1

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.

{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: HV1326 I-64 & US60

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

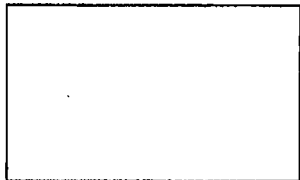
Signature
Title: _____
Date: _____

Site Name: HV1326 I-64 & US60

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: _____

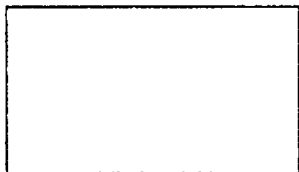
Exhibit Only
DO NOT EXECUTE

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: HV1326 I-64 & US60

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

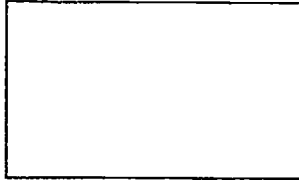
Signature
Title: _____
Date: _____

Site Name: HV1326 I-64 & US60

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, 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

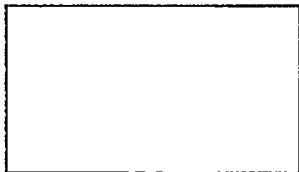
TENANT ACKNOWLEDGMENT

STATE OF INDIANA

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: HV1326 I-64 & US60

**EXHIBIT A
TO THE MEMORANUM**

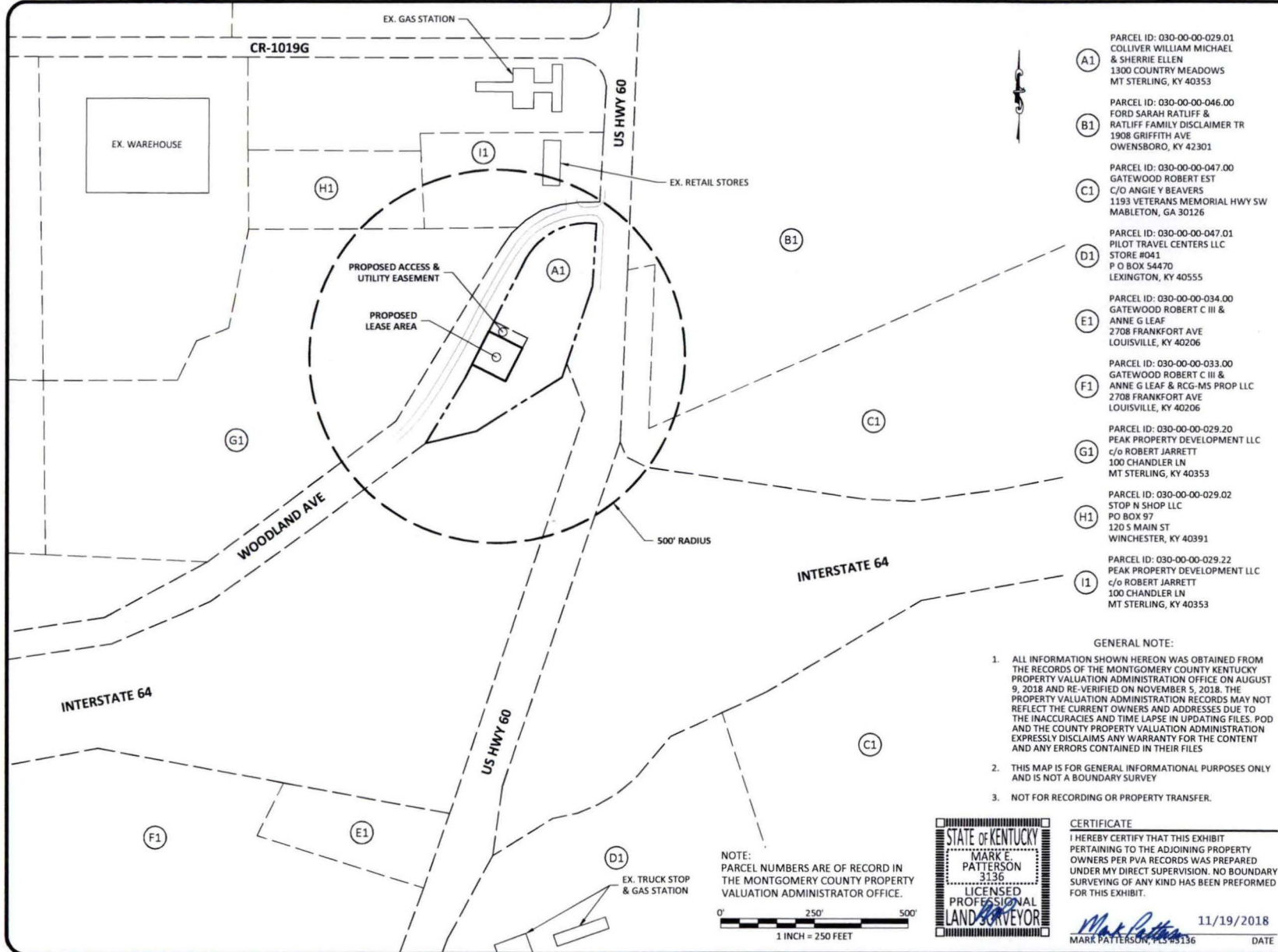
DESCRIPTION OF PREMISES

The Premises are described and/or depicted as follows:

A Complete Survey will be attached prior to recording.

EXHIBIT

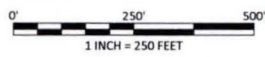
J



- (A1) PARCEL ID: 030-00-00-029.01
COLLIVER WILLIAM MICHAEL & SHERRIE ELLEN
1300 COUNTRY MEADOWS
MT STERLING, KY 40353
- (B1) PARCEL ID: 030-00-00-046.00
FORD SARAH RATLIFF & RATLIFF FAMILY DISCLAIMER TR
1908 GRIFFITH AVE
OWENSBORO, KY 42301
- (C1) PARCEL ID: 030-00-00-047.00
GATEWOOD ROBERT EST
C/O ANGIE Y BEAVERS
1193 VETERANS MEMORIAL HWY SW
MABLETON, GA 30126
- (D1) PARCEL ID: 030-00-00-047.01
PILOT TRAVEL CENTERS LLC
STORE #041
P O BOX 54470
LEXINGTON, KY 40555
- (E1) PARCEL ID: 030-00-00-034.00
GATEWOOD ROBERT C III & ANNE G LEAF
2708 FRANKFORT AVE
LOUISVILLE, KY 40206
- (F1) PARCEL ID: 030-00-00-033.00
GATEWOOD ROBERT C III & ANNE G LEAF & RCG-MS PROP LLC
2708 FRANKFORT AVE
LOUISVILLE, KY 40206
- (G1) PARCEL ID: 030-00-00-029.20
PEAK PROPERTY DEVELOPMENT LLC
c/o ROBERT JARRETT
100 CHANDLER LN
MT STERLING, KY 40353
- (H1) PARCEL ID: 030-00-00-029.02
STOP N SHOP LLC
PO BOX 97
120 S MAIN ST
WINCHESTER, KY 40391
- (I1) PARCEL ID: 030-00-00-029.22
PEAK PROPERTY DEVELOPMENT LLC
c/o ROBERT JARRETT
100 CHANDLER LN
MT STERLING, KY 40353


- GENERAL NOTE:**
- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE MONTGOMERY COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON AUGUST 9, 2018 AND RE-VERIFIED ON NOVEMBER 5, 2018. 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
 - THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
 - NOT FOR RECORDING OR PROPERTY TRANSFER.

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




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 PREPARED FOR THIS EXHIBIT.

Mark Patterson 11/19/2018
MARK PATTERSON, PLS #3136 DATE



11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-9252



312 WEST COLFAX AVE
SOUTH BEND, IN 46601
574.237.0464

EXHIBIT

REV.	DATE	DESCRIPTION
A	11.5.18	ISSUED FOR REVIEW
D	11.19.18	ISSUED AS FINAL

SITE INFORMATION:
I-64 & US 60
OWINGSVILLE ROAD
MT STERLING, KY 40353
MONTGOMERY COUNTY
TAX PARCEL NUMBER:
030-00-00-029.01 / 2809
PROPERTY OWNER:
WILLIAM MICHAEL COLLIVER AND
SHERRIE ELLEN COLLIVER
1300 COUNTRY MEADOWS
MT STERLING, KY 40353
SOURCE OF TITLE:
DEED BOOK 266, PAGE 772

SITE NUMBER:
HV1326

VERIZON WIRELESS SITE NAME:
LV I-64 AND US 60

POD NUMBER: 18-26638
DRAWN BY: CPM
CHECKED BY: MEP
SURVEY DATE: 8.09.18
PLAT DATE: 11.5.18

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

SHEET NUMBER: (1 page)
B-2

EXHIBIT

K

JACOB C. WALBOURN
jwalbourn@mmlk.com



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

December 4, 2018

Via Certified Mail

William M. and Sherrie E. Colliver
1300 Country Meadows
Mt. Sterling, KY 40353

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 Owingsville Road, Mt. Sterling, Montgomery County, Kentucky

Dear Property Owner:

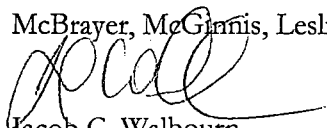
Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 265' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at Owingsville Road, Mt. Sterling, Montgomery County, Kentucky. The proposed Facility will, on 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.

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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. 2018-00402 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@mmlk.com



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

December 4, 2018

Via Certified Mail

Sarah Ratliff Ford
Ratliff Family Disclaimer Trust
108 Griffith Avenue
Owensboro, KY 42301

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 Owingsville Road, Mt. Sterling, Montgomery County, Kentucky

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 265' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at Owingsville Road, Mt. Sterling, Montgomery 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.

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Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

A handwritten signature in black ink, appearing to read "Jacob C. Walbourn".

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

December 4, 2018

Via Certified Mail

Robert Gatewood
c/o Angie Beavers
1193 Veterans Memorial Hwy SW
Mableton, GA 30126

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 Owingsville Road, Mt. Sterling, Montgomery County, Kentucky

Dear Property Owner:

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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@mmlk.com



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

December 4, 2018

Via Certified Mail

Pilot Travel Centers LLC
Store #041
PO Box 54470
Lexington, KY 40555

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 Owingsville Road, Mt. Sterling, Montgomery County, Kentucky

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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@mmlk.com



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

December 4, 2018

Via Certified Mail

Robert C. Gatwood and Anne Leaf
and RCG-MS Prop LLC
2708 Frankfort Ave
Louisville, KY 40206

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 Owingsville Road, Mt. Sterling, Montgomery County, Kentucky

Dear Property Owner:

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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

December 4, 2018

Via Certified Mail

Peak Property Development LLC
c/o Robert Jarrett
100 Chandler Lane
Mt. Sterling, KY 40353

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 Owingsville Road, Mt. Sterling, Montgomery County, Kentucky

Dear Property Owner:

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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@mmlk.com



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

December 4, 2018

Via Certified Mail

Stop N Shop LLC
PO Box 97
Winchester, KY 40391

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 Owingsville Road, Mt. Sterling, Montgomery County, Kentucky

Dear Property Owner:

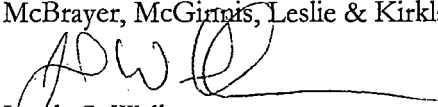
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McBrayer, McGinnis, Leslie & Kirkland, PLLC



Jacob C. Walbourn

W. Brent Rice

Counsel for Horvath Towers V, LLC

Enclosure 4818-6478-2947, v. 1

12/4/2018

38°05'25.3"N 83°53'55.9"W - Google Maps

Google Maps 38°05'25.3"N 83°53'55.9"W



Imagery ©2018 Google, Map data ©2018 Google 200 ft

EXHIBIT

L

JACOB C. WALBOURN
jwalbourn@mmlk.com



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

December 4, 2018

Via Certified Mail

Judge-Executive Wally Johnson
44 West Main Street
Mt. Sterling, Kentucky 40353

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 Owingsville Road, Mt. Sterling, Kentucky

Dear Judge Johnson:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 265’ self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at Owingsville Road, Mt. Sterling, Kentucky, near the US-60 and I-64 interchange. 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.

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

Sincerely,

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

Enclosure

JACOB C. WALBOURN
jwalbourn@mmlk.com



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

December 4, 2018

Via Certified Mail

Montgomery County Fiscal Court
44 West Main Street
Mt. Sterling, Kentucky 40353

Re: Notice of Horvath Towers V, LLC ("Applicant") to Fiscal Court
of its Application before the Public Service Commission to Construct a Cellular
Tower Facility at Owingsville Road, Mt. Sterling, Kentucky

Dear Commissioners:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 265' self-support tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at Owingsville Road, Mt. Sterling, Kentucky, near the US-60 and I-64 interchange. 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.

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

Enclosure

EXHIBIT

M

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. 2018-00402 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. 2018-00402 in any correspondence.

EXHIBIT

N



Thursday, November 29th, 2018

RE: Proposed Cellco Partnership d/b/a Verizon Wireless Communications Facility

Site Name: I-64 and US 60

Type of Tower: 275' Self Support

Location: near HV1326 Owingsville Road, Mt Sterling, KY 40353.

To Whom It May Concern:

As a radio frequency engineer for Verizon Wireless, I am providing this letter to state the need for a Verizon Wireless site called I-64 AND US 60.

The I-64 AND US 60 site is proposed with the below objectives:

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

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

Raw Land – Design plans for a new tower would provide tower height of 275' with a Verizon Wireless Centerline of 260'. The new structure height was decided upon to best cover the offload area and interact with the existing Verizon sites. If we are limited to building a structure less than the proposed height, another tower would be needed in the vicinity in the near future. In addition, building a structure that is too short can cause existing taller sites to shoot over the proposed site and building a site that is too tall can cause the proposed site to shoot over existing sites. Both situations create a poor experience from a user perspective. The new structure will be placed near the center of the area with high traffic demand and offload the surrounding sites greatly. The new tower design meets stated objectives.

Verizon Wireless cares about the communities as well as the environment and prefers to collocate on existing structures when available. It can be noticed from any map that Verizon Wireless is currently collocated on many existing structures in the area. We prefer collocation due to reduced construction costs, faster deployment, and environment protection. However, Verizon Wireless was unable to find a suitable structure within the center of demand area to collocate the proposed I-64 AND US 60 site.

Crown Castle (FCC ID: 1059771) – Site is located too far north west of the demand area.

Therefore Verizon does not feel this site meets our customer's needs and is not viable.

Crown Castle (FCC ID: 1220054) – This existing tower too far west of the demand area and next to offloading existing Verizon Site LV Mt. Sterling (FCC ID: 1255637). Therefore Verizon does not feel this site meets our customer's needs and is not viable.



Garrett Communications Inc (FCC ID: 1207538), Site is located too far South West of demand search area. Therefore Verizon does not feel this site meets our customer's needs and is not viable.

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

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

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

Sincerely,
Falz Mohammed.

RF Engineer, Verizon Wireless

STATE OF KENTUCKY

COUNTY OF Jefferson

Subscribed and sworn to before me this 3rd day of December, 2018.

Notary Public

Signature Amy Harper

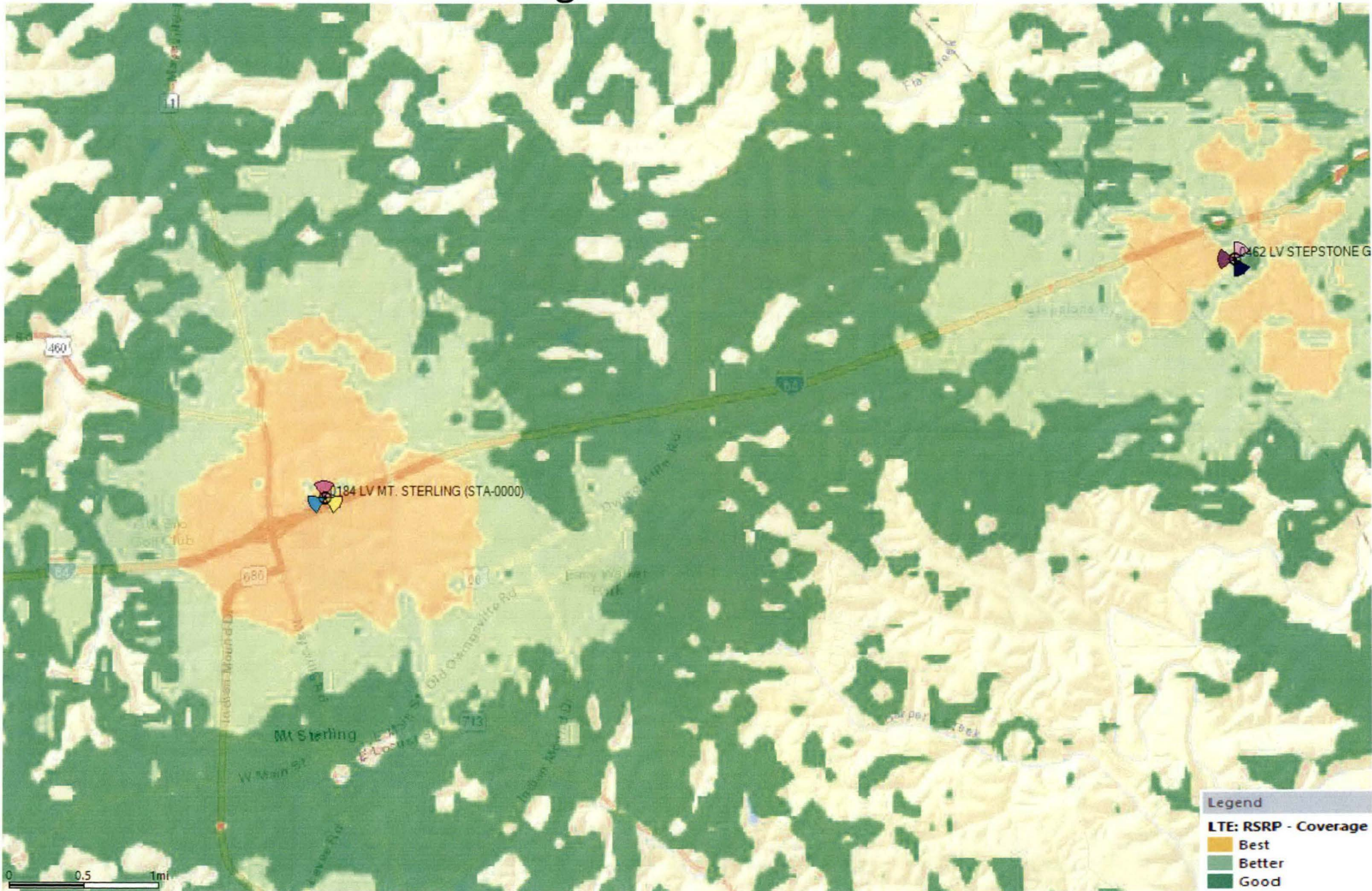
Printed Amy Harper

County of Residence Clark

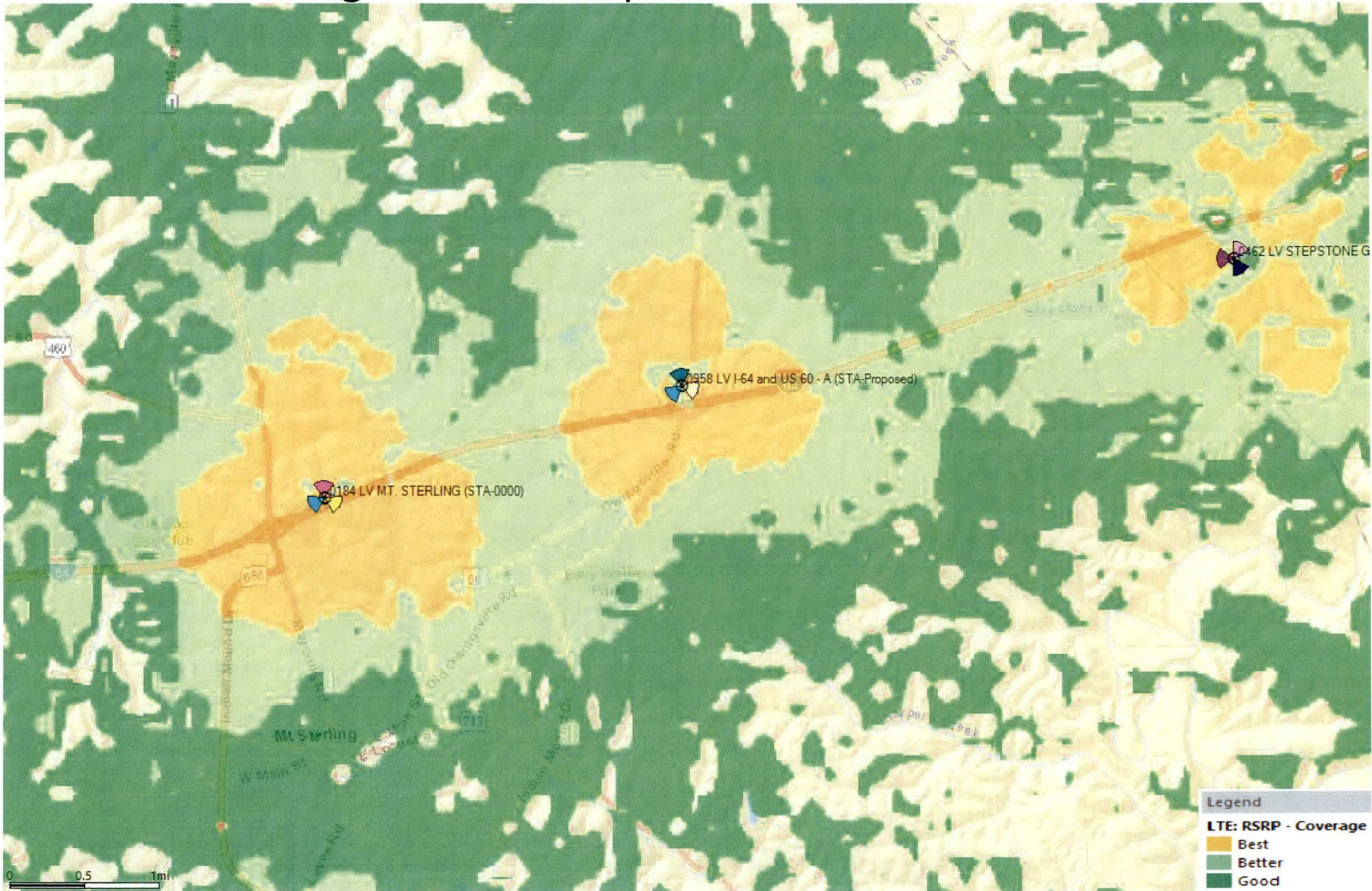


AMY J. HARPER
NOTARY PUBLIC
Kentucky, State At Large
I.D. # 535982
My Commission Expires 6/16/2019

Current Coverage without LV I-64 AND US 60



Coverage with the Proposed LV I-64 AND US 60 Site





Proposed:

Lat Lon

38.09034722 -83.89885278

Objective :
Capacity Offload
from
LV Stepstone G
Sector 3 and
LV MT. Sterling
Sector 1 & 2

