

JACOB C. WALBOURN  
jwalbourn@mmlk.com



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

February 26, 2018

Gwen R. Pinson  
Executive Director  
Public Service Commission  
P.O. Box 615  
211 Sower Boulevard  
Frankfort, Kentucky 40602-0615

RECEIVED

MAR 01 2018

PUBLIC SERVICE  
COMMISSION

RE: **Horvath Towers V, LLC Application before the Kentucky Public Service Commission to Construct a Cellular Tower Facility at Hico Road in Murray, Calloway County, Kentucky**  
**Docket No. 2017-00442**

Dear Ms. Pinson:

Please be advised that the undersigned represents Horvath Towers V, LLC in regard to the above-referenced Application which I am filing on its behalf today with the Commission.

Enclosed please find one original and five copies of the Application. Any comments or questions regarding the application should be forwarded to the undersigned. Thank you for your assistance in this matter.

Sincerely,

A handwritten signature in blue ink, appearing to read 'J. Walbourn', with a long horizontal flourish extending to the right.

Jacob C. Walbourn  
Counsel for Horvath Towers V, LLC

Enclosures  
4827-7707-6318, v. 1

RECEIVED

MAR 01 2018

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

PUBLIC SERVICE  
COMMISSION

In the Matter of:

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

**ORIGINAL**

CASE NO.: 2017-00442

SITE NAME: HICO ROAD

\* \* \* \* \*

**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 46604.

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 Calloway County.

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

(coordinates 36.7157, -88.1725) on land located wholly within Calloway County. The property where the Facility is to be located is owned by James Calvin Barnett, pursuant to a Deed recorded in Deed Book 213, Page 535 and Deed Book 1121 on Page 629 in the office of Calloway County Clerk. The Facility will consist of a 290-foot tall, self-supporting tower, with an approximately 10-foot tall lightning arrestor on the top of the Facility, for a total height of 300 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 Approval to construct the tower is attached hereto as **Exhibit F**.

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 Calloway 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 rural, sparsely populated, and largely wooded.

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.

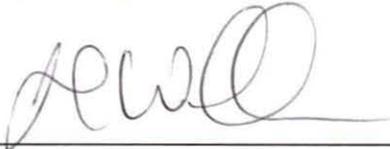
26. All Exhibits are hereby incorporated by reference as if fully set forth herein as part of the Application.

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](mailto:brice@mmlk.com)  
[jwalbourn@mmlk.com](mailto: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,



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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](mailto:brice@mmlk.com)  
[jwalbourn@mmlk.com](mailto:jwalbourn@mmlk.com)

# 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](http://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 amcray  
ADD  
Alison Lundergan Grimes  
Kentucky Secretary of State  
Received and Filed:  
6/13/2017 1:28 PM  
Fee Receipt: \$90.00

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

**Certificate of Authority  
(Foreign Business Entity)**

**FBE**

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

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

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

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

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

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

6. The mailing address of the entity's principal office is  
312 W. Colfax Ave., South Bend IN 46601  
Street Address City State Zip Code

7. The street address of the entity's registered office in Kentucky is  
306 West Main Street - Suite 512 Frankfort KY 40601  
Street Address (No P.O. Box Numbers) City State Zip Code

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

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

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

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

10. I certify that, as of the date of filing this application, the above-named entity validly exists under the laws of the jurisdiction of its formation.  
 11. If a limited partnership, it elects to be a limited liability partnership. Check the box if applicable:   
 12. If a limited liability company, check box if manager-managed:   
 13. This application will be effective upon filing, unless a delayed effective date and/or time is provided.  
 The effective date 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 checked="" type="checkbox"/> Transportation, Communications, Electric, Gas, Sanitary Services		
<input type="checkbox"/> Other			

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.  
 Type/Print Name of Registered Agent: CT Corporation System Assistant Secretary 06/7/2017  
 Signature of Registered Agent: [Signature] Printed Name Title Date  
 (05/17)

To download full page copies of the document, please visit our web site at [www.sos.ky.gov](http://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](http://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

**NEW 290' SELF SUPPORT TOWER w/10' LIGHTNING ARRESTOR  
TOTAL TOWER HEIGHT 300'**

# HICO ROAD

## HV1273

HICO ROAD  
MURRAY, KY 42071  
CALLOWAY COUNTY

TENANT: CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS  
EV HICO ROAD

FROM CALLOWAY COUNTY FISCAL COURT: 101 SOUTH 5TH STREET, MURRAY, KENTUCKY 42071: HEAD NORTH ON S 5TH ST TOWARD MAIN ST (141 FT). TURN RIGHT AT THE 1ST CROSS STREET ONTO KY-94 E/MAIN ST (6.9 MI). CONTINUE STRAIGHT ONTO KY-94C (0.4 MI). TURN RIGHT ONTO KY-80 E (3.4 MI). TURN RIGHT ONTO STATE HWY 1346 (0.3 MI). TURN LEFT ONTO MORRIS RD (0.4 MI). SITE WILL BE LOCATED ON LEFT (WEST) SIDE OF ROAD.

FROM EVANSVILLE MTSO: 800 RUSSELL ROAD CHANDLER, IN 47610: HEAD NORTH ON RUSSELL RD TOWARD GARDNER RD (0.2 MI). TURN LEFT ONTO GARDNER RD (1.6 MI). TURN LEFT ONTO IN-62 (4.2 MI). TURN RIGHT ONTO THE I-164 S RAMP (0.3 MI). MERGE ONTO I-69 S (8.1 MI). TAKE EXIT 0 TO MERGE ONTO US-41 S TOWARD HENDERSON KY (1.0 MI). MERGE ONTO US-41 S (6.3 MI). KEEP LEFT TO STAY ON US-41 S (2.4 MI). KEEP LEFT TO CONTINUE ON PENNYRILE PKWY. FOLLOW SIGNS FOR OWENSBORO (1.1 MI). CONTINUE ONTO I-69/PENNYRILE PKWY (42.6 MI). KEEP LEFT AT THE FORK TO CONTINUE ON PENNYRILE PKWY (23.2 MI). TAKE EXIT 11 FOR KY-1682 TOWARD HOPKINSVILLE (0.2 MI). TURN LEFT ONTO KY-1682 W/DR MARTIN LUTHER KING JR WAY (SIGNS FOR U.S. 41/HOPKINSVILLE/LAKE BARKLEY STATE RESORT PARK/HOPKINSVILLE COMMUNITY COLLEGE) (4.9 MI). TURN RIGHT ONTO KY-80 W/US-68 W (40.2 MI). TURN LEFT ONTO HICO RD (0.7 MI). TURN RIGHT ONTO MORRIS RD (0.2 MI). SITE WILL BE LOCATED ON RIGHT (WEST) SIDE OF ROAD.

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

**HORVATH COMMUNICATIONS SITE**

HICO ROAD  
SITE #: HV1273

**VERIZON WIRELESS SITE**

EV HICO ROAD  
PROJECT#: 20161506658  
MARKET ID: TBD  
LOCATION CODE: 433005

**SITE ADDRESS**

HICO ROAD  
MURRAY, KY 42071  
CALLLOWAY COUNTY  
E911 ADDRESS: TBD

**TOWER OWNER**

HORVATH COMMUNICATIONS  
312 W COLFAX AVE  
SOUTH BEND, IN 46601  
CONTACT: JENNIFER A. SIROVICA  
PHONE: (574) 237-0464  
MOBILE: (574) 215-0620  
E-MAIL: JSIROVICA@HORVATHCOMMUNICATIONS.COM

**PROPERTY OWNER**

JAMES CALVIN BARNETT &  
JANICE KAY BARNETT  
1550 KIRK RIDGE ROAD  
MURRAY, KY 42071  
CONTACT: JAMES CALVIN BARNETT  
PHONE: (270) 436-2469

**POLICE**

CALLOWAY COUNTY SHERIFF  
701 OLIVE ST  
MURRAY, KY 42071  
PHONE: (270) 753-3151

**FIRE**

CALLOWAY COUNTY FIRE-RESCUE  
MAIN STATION  
101 E SPYCAMORE ST  
MURRAY, KY 42071  
PHONE: (270) 753-4112

**GENERAL INFORMATION**

LATITUDE : 36° 42' 56.53" N  
LONGITUDE : 88° 10' 20.10" W  
1983 (NAD83)  
ELEVATION : 510.00' AMSL  
1988 (NAVD88)

**HORVATH COMMUNICATIONS  
LEASE AREA**

100'-0" x 100'-0"  
(10,000 SF)

**PROJECT TOTAL DISTURBED AREA**

COMPOUND	(10,000 SF) = [0.23 ACRE]
ACCESS DRIVE	(10,000 SF) = [0.11 ACRE]
GROSS AREA	(15,000 SF) = [0.34 ACRE]

NOTE: ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS UNLESS NOTED AS VOW GC WHICH SHALL INCLUDE VERIZON WIRELESS GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. GENERALLY DESCRIBED BELOW:

**HORVATH COMMUNICATIONS SCOPE:**

- INSTALL A NEW 290' SELF SUPPORT TOWER w/ 10' LIGHTNING ROD (TOTAL 300')
- INSTALL A NEW TOWER FOUNDATION SYSTEM
- INSTALL A NEW ACCESS FENCE/GRAVE/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' 6" X 8' 6" CONCRETE EQUIPMENT/GENERATOR PAD
- INSTALL ELECTRICAL SERVICE CONDUIT WITH FULL TAPES FROM ILC ENCLOSURE STUB-UP WITHIN VZW EQUIPMENT PAD TO UTILITY H-FRAME
- INSTALL NEW CONDUITS WITH FULL TAPES FROM VZW ILC ENCLOSURE STUB-UPS TO EQUIPMENT ENCLOSURE STUB-UPS WITHIN VZW EQUIPMENT PAD
- INSTALL NEW CONDUITS WITH FULL TAPES FROM VZW ILC & EQUIPMENT ENCLOSURES STUB-UP TO GENERATOR LOCATION WITHIN VZW EQUIPMENT PAD
- INSTALL NEW CONDUITS WITH FULL TAPES FROM DC POWER CABINET AND AC CABINET TO OVP H-FRAME UT FIBER LOCATION
- INSTALL (1) NEW VERIZON WIRELESS ONLY FIBER OPTIC CONDUIT WITH FULL TAPES AND TRACES WIRE FROM VZW EQUIPMENT TO NEW VERIZON WIRELESS ONLY HAND-HOLE OUTSIDE COMPOUND
- INSTALL (1) NEW VERIZON WIRE TEST ONLY FIBER OPTIC CONDUIT WITH FULL TAPES FROM NEW VERIZON WIRE TEST ONLY CONTROL STUB-UP AT FUTURE FIBER PEDESTAL LOCATION
- PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON WIRELESS AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY.

**VERIZON WIRELESS SCOPE (VOW GC):**

- INSTALL A NEW 11' 6" X 8' 6" PRECAST FABRICATED CANOPY ON EXISTING CONCRETE PAD FOUNDATION
- INSTALL NEW 20KW DIESEL GENERATOR ON EXISTING CONCRETE FOUNDATION
- INSTALL VZW AC BRIDGE AND FOUNDATIONS
- INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
- INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNAS AND RADIO EQUIPMENT
- INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES
- INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
- INSTALL VZW GENERATOR CIRCUITS FROM VZW ILC & EQUIPMENT ENCLOSURES TO VZW GENERATOR
- INSTALL CIRCUITS FROM VZW ILC TO VZW EQUIPMENT ENCLOSURES
- INSTALL NEW OUTDOOR OVP AND CABLING H-FRAME SUPPORT
- INSTALL (2) 3-1/4" & (1) 1" INERDUCTS WITH FULL TAPES AND TRACES WIRE WITHIN OWNER INSTALLED VERIZON WIRELESS ONLY FIBER OPTIC CONDUIT

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.

<b>BUILDING CODE</b>	2013 KENTUCKY BUILDING CODE (KBC 2012)
<b>STRUCTURAL CODE</b>	TAFKIA 227 - REVISION G (INCLUDES ADDENDUM #2)
<b>MECHANICAL CODE</b>	2012 INTERNATIONAL MECHANICAL CODE (IMC 2012)
<b>PLUMBING CODE</b>	KENTUCKY STATE PLUMBING CODE (KSPC CHAP. 20)
<b>ELECTRICAL CODE</b>	2014 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
<b>FIRE/LIFE SAFETY CODE</b>	2012 INTERNATIONAL FIRE CODE (IFC 2012)
<b>ENERGY CODE</b>	2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
<b>GAS CODE</b>	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**

<b>SURVEYOR</b>	POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252	<b>ARCHITECTURAL</b>	POWER OF DESIGN GROUP, LLC 11490 BLUEGRASS PARKWAY LOUISVILLE, KY 40299 PHONE: (502) 437-5252
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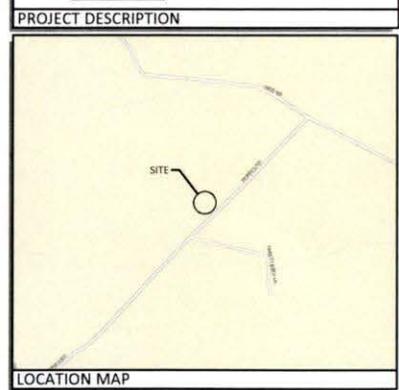
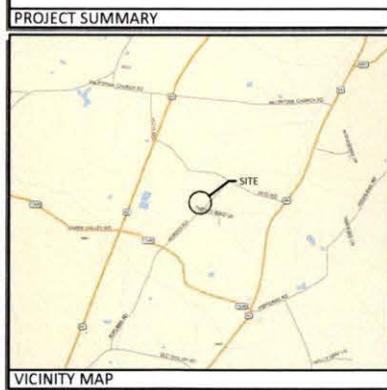
**ELECTRICAL**

WEST KENTUCKY RECC  
ADDRESS: 1218 W BROADWAY ST  
MAYFIELD, KY 42066

CONTACT: TBD  
PHONE: (270) 247-1321  
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 TO B-2.1	500' RADIUS AND ABUTTERS MAP
R-1	REVISION LOG
TOWER ELEVATION	
TE-1	TOWER ELEVATION
CIVIL	
C-1	OVERALL SITE PLAN w/AERIAL OVERLAY
C-1A	OVERALL SITE PLAN
C-3	DETAILED SITE PLAN
C-4	DIMENSIONED SITE PLAN



312 WEST COLFAX AVE  
SOUTH BEND, IN 46601

10/30/2017



EN PERMIT: 3594

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	10.27.17	ISSUED FOR REVIEW
0	10.30.17	ISSUED AS FINAL

**SITE INFORMATION:**

HICO ROAD  
MURRAY, KY 42071  
CALLOWAY COUNTY

SKYWAY TOWERS SITE NUMBER:  
HV1273

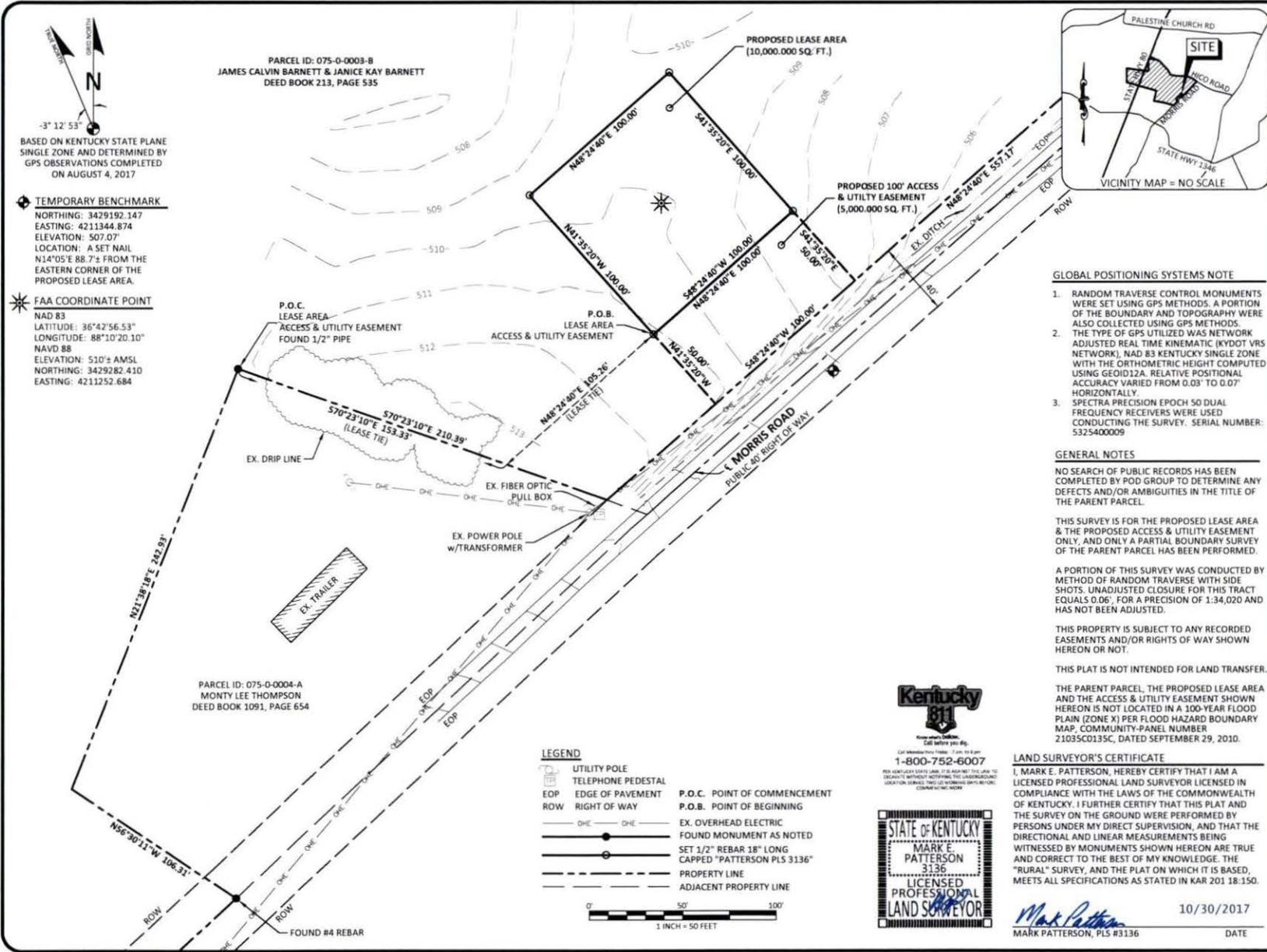
VERIZON WIRELESS SITE NAME:  
EV HICO ROAD

POD NUMBER:	17-14728
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	10.25.17

**SHEET TITLE:**

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

SHEET NUMBER:  
**T-1**



-3° 12' 53"  
 BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON AUGUST 4, 2017

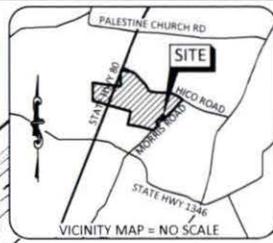
TEMPORARY BENCHMARK  
 NORTHING: 3429192.147  
 EASTING: 4211344.874  
 ELEVATION: 507.07'  
 LOCATION: A SET NAIL N14°05'E 88.7± FROM THE EASTERN CORNER OF THE PROPOSED LEASE AREA.

FAA COORDINATE POINT  
 NAD 83  
 LATITUDE: 36°42'56.53"  
 LONGITUDE: 88°10'20.10"  
 NAVD 88  
 ELEVATION: 510± AMSL  
 NORTHING: 3429282.410  
 EASTING: 4211252.684

PARCEL ID: 075-0-0003-B  
 JAMES CALVIN BARNETT & JANICE KAY BARNETT  
 DEED BOOK 213, PAGE 535

PARCEL ID: 075-0-0004-A  
 MONTY LEE THOMPSON  
 DEED BOOK 1091, PAGE 654

**LEGEND**  
 UTILITY POLE  
 TELEPHONE PEDESTAL  
 EOP EDGE OF PAVEMENT  
 ROW RIGHT OF WAY  
 P.O.C. POINT OF COMMENCEMENT  
 P.O.B. POINT OF BEGINNING  
 EX. OVERHEAD ELECTRIC  
 FOUND MONUMENT AS NOTED  
 SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"  
 PROPERTY LINE  
 ADJACENT PROPERTY LINE  
 0' 50' 100'  
 1 INCH = 50 FEET



**GLOBAL POSITIONING SYSTEMS NOTE**

1. RANDOM TRAVERSE CONTROL MONUMENTS WERE SET USING GPS METHODS. A PORTION OF THE BOUNDARY AND TOPOGRAPHY WERE 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 0.03' TO 0.07' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED CONDUCTING THE SURVEY. SERIAL NUMBER: 5325400009

**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 0.06' FOR A PRECISION OF 1:34,020 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 ACCESS & UTILITY EASEMENT SHOWN HEREON IS NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 2103SCD135C, DATED SEPTEMBER 29, 2010.



**LAND SURVEYOR'S CERTIFICATE**

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

Mark Patterson  
 MARK PATTERSON, PLS #3136  
 10/30/2017  
 DATE

**POD**  
 POWER OF DESIGN  
 13490 BLUEGRASS PARKWAY  
 COVINGTON, KY 40309  
 502-437-9252

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

**SURVEY**

REV.	DATE	DESCRIPTION
A	8.8.17	PRELIMINARY ISSUE
B	9.8.17	TITLE REVIEW
D	10.27.17	ISSUED AS FINAL

**SITE INFORMATION:**  
**HICO ROAD**  
 HICO ROAD  
 MURRAY, KY 42071  
 CALLOWAY COUNTY  
**TAX PARCEL NUMBER:**  
 075-0-0003-B  
**PROPERTY OWNER:**  
 JAMES CALVIN BARNETT &  
 JANICE KAY BARNETT  
 1550 KIRK RIDGE ROAD  
 MURRAY, KY 42071  
**SOURCE OF TITLE:**  
 DEED BOOK 213, PAGE 535  
**SITE NUMBER:**  
 HV1273  
**VERIZON WIRELESS SITE NAME:**  
 EV HICO ROAD

**POD NUMBER:** 17-14714  
**DRAWN BY:** CPM  
**CHECKED BY:** MEP  
**SURVEY DATE:** 8.4.17  
**PLAT DATE:** 8.8.17

**SHEET TITLE:**  
**SITE SURVEY**  
**SHEET NUMBER:**  
**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 JAMES CALVIN BARNETT & JANICE KAY BARNETT AS RECORDED IN DEED BOOK 213, PAGE 535, PARCEL ID: 075-0-0003-B, 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 4, 2017.

**COMMENCING AT A FOUND 1/2" PIPE IN THE NORTHERNMOST CORNER OF TRACT CONVEYED TO MONTY LEE THOMPSON AS RECORDED IN DEED BOOK 1091, PAGE 564, PARCEL ID: 075-0-0004-A, ALSO BEING A CORNER TO TRACT CONVEYED TO JAMES CALVIN BARNETT & JANICE KAY BARNETT AS RECORDED IN DEED BOOK 213, PAGE 535, PARCEL ID: 075-0-0003-B; THENCE WITH NORTH LINE OF SAID THOMPSON TRACT, BEING A COMMON LINE WITH SAID BARNETT TRACT, 57°23'10"E 353.33'; THENCE LEAVING SAID COMMON LINE AND TRAVERSING THE LANDS OF BARNETT, N48°24'40"E 105.26' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE WESTERN CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE N41°35'20"W 100.00' TO A "SET IPC"; THENCE N48°24'40"E 100.00' TO A "SET IPC"; THENCE S41°35'20"E 100.00' TO A "SET IPC"; THENCE S48°24'40"W 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 4, 2017.**

**PROPOSED 100' ACCESS & UTILITY EASMENT**

THE FOLLOWING IS A DESCRIPTION OF A PROPOSED ACCESS & UTILITY TO BE GRANTED FROM THE PROPERTY CONVEYED TO JAMES CALVIN BARNETT & JANICE KAY BARNETT AS RECORDED IN DEED BOOK 213, PAGE 535, PARCEL ID: 075-0-0003-B, 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 4, 2017.

**COMMENCING AT A FOUND 1/2" PIPE IN THE NORTHERNMOST CORNER OF TRACT CONVEYED TO MONTY LEE THOMPSON AS RECORDED IN DEED BOOK 1091, PAGE 564, PARCEL ID: 075-0-0004-A, ALSO BEING A CORNER TO TRACT CONVEYED TO JAMES CALVIN BARNETT & JANICE KAY BARNETT AS RECORDED IN DEED BOOK 213, PAGE 535, PARCEL ID: 075-0-0003-B; THENCE WITH NORTH LINE OF SAID THOMPSON TRACT, BEING A COMMON LINE WITH SAID BARNETT TRACT, 57°23'10"E 353.33'; THENCE LEAVING SAID COMMON LINE AND TRAVERSING THE LAND OF BARNETT N48°24'40"E 105.26' TO A SET 1/2" REBAR CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC", IN THE WESTERN CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE WITH SAID LEASE AREA, N48°24'40"E 100.00'; THENCE LEAVING SAID LEASE AREA, S41°35'20"E 50.00' TO THE NORTHWESTERLY LINE OF THE RIGHT OF WAY OF MORRIS ROAD AND THE SOUTHEASTERLY LINE OF SAID BARNETT PROPERTY; THENCE WITH SAID COMMON LINE, S48°24'40"W 100.00'; THENCE LEAVING SAID LINE AND TRAVERSING THE LAND OF SAID BARNETT, N41°35'20"W 50.00' TO THE POINT OF BEGINNING CONTAINING 5,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED AUGUST 4, 2017.**

**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. 57805-KY1707-5030, REFERENCE NUMBER HV1273, DATED AUGUST 24, 2017. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID REPORT.

**SCHEDULE B**

- TAXES, TAX LIENS, TAX SALES, WATER RATES, SEWER AND ASSESSMENTS SET FORTH IN SCHEDULE HEREIN.  
TAX ID: 075-0-0003-B - TOTAL ASSESSED VALUE: \$58,500.00 - PERIOD: 2016 - PAYMENT STATUS: PAID (POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THESE ITEM.)
- MORTGAGES RETURNED HEREIN (-0-). SEE SEPARATE MORTGAGE SCHEDULE. NONE WITHIN PERIOD SEARCHED.
- ANY STATE OF FACTS WHICH AN ACCURATE SURVEY MIGHT SHOW OR SURVEY EXCEPTIONS SET FORTH HEREIN: (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY OF THE PARENT PARCEL, THEREFORE WE DID NOT ADDRESS THIS ITEM.)
- RIGHTS OF TENANTS OR PERSON IN POSSESSION: (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)
- GRANT OF TEMPORARY EASEMENT BY JAMES C. BARNETT AND WIFE, JANICE K. BARNETT TO COMMONWEALTH OF KENTUCKY, TRANSPORTATION CABINET, DEPARTMENT OF HIGHWAYS, DATED 10/24/2002 RECORDED 11/6/2002 IN BOOK 445 PAGE 103 - NOTES: ENTRANCE CONSTRUCTION (TEMPORARY EASEMENT AS RECORDED IN BOOK 445, PAGE 103 DOES AFFECT THE PARENT PARCEL, BUT DOES NOT AFFECT THE PROPOSED LEASE AREA OR THE PROPOSED ACCESS & UTILITY EASEMENT. EASEMENT IS FOR CONSTRUCTION OF AN ENTRANCE ONTO STATE HIGHWAY 80 E.)  
(OTHER FILED DOCUMENTS)
- PLAT OF MINOR SUBDIVISION IN BOOK 54 PAGE 9. (PLAT AS RECORDED IN BOOK 54, PAGE 9 DOES AFFECT THE PARENT PARCEL, BUT DOES NOT AFFECT THE PROPOSED LEASE AREA OR THE PROPOSED ACCESS & UTILITY EASEMENT.)

**LAND SURVEYOR'S CERTIFICATE**

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



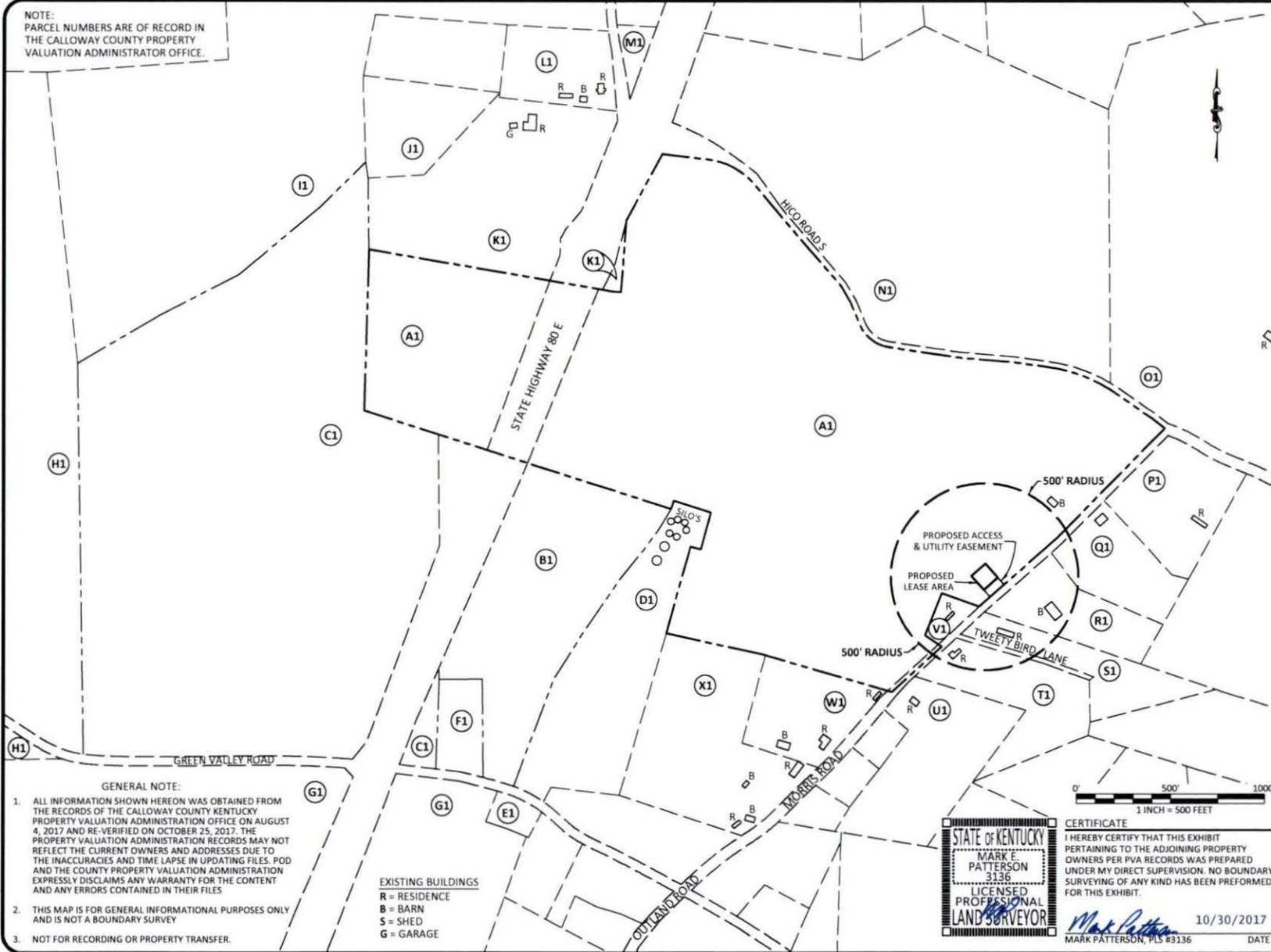
*Mark Patterson* 10/30/2017  
MARK PATTERSON, PLS #3136 DATE

11490 BLUEGRASS PARKWAY  
LOUISVILLE, KY 40299  
502-487-9292

312 WEST COLFAX AVE  
SOUTH BEND, IN 46601  
574.237.0464

SURVEY		
REV.	DATE	DESCRIPTION
A	8.8.17	PRELIMINARY ISSUE
B	9.8.17	TITLE REVIEW
0	10.27.17	ISSUED AS FINAL
SITE INFORMATION:		
<b>HICO ROAD</b>		
HICO ROAD MURRAY, KY 42071 CALLOWAY COUNTY		
TAX PARCEL NUMBER: 075-0-0003-B		
PROPERTY OWNER: JAMES CALVIN BARNETT & JANICE KAY BARNETT 1550 KIRK RIDGE ROAD MURRAY, KY 42071		
SOURCE OF TITLE: DEED BOOK 213, PAGE 535		
SITE NUMBER: HV1273		
VERIZON WIRELESS SITE NAME: EV HICO ROAD		
POD NUMBER: 17-14714 DRAWN BY: CPM CHECKED BY: MEP SURVEY DATE: 8.4.17 PLAT DATE: 8.8.17		
SHEET TITLE: <b>SITE SURVEY</b>		
SHEET NUMBER: <b>B-1.1</b>		

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



**GENERAL NOTE:**

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CALLOWAY COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON AUGUST 4, 2017 AND RE-VERIFIED ON OCTOBER 25, 2017. 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.

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



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

*Mark Patterson* 10/30/2017  
 MARK PATTERSON, PLS #3136 DATE



312 WEST COLFAX AVE  
 SOUTH BEND, IN 46601  
 574.237.0464

**EXHIBIT**

REV.	DATE	DESCRIPTION
A	10.25.17	ISSUED FOR REVIEW
D	10.30.17	ISSUED AS FINAL

**SITE INFORMATION:**  
**HICO ROAD**  
 HICO ROAD  
 MURRAY, KY 42071  
 CALLOWAY COUNTY

**TAX PARCEL NUMBER:**  
 075-0-0003-B

**PROPERTY OWNER:**  
 JAMES CALVIN BARNETT &  
 JANICE KAY BARNETT  
 1550 KIRK RIDGE ROAD  
 MURRAY, KY 42071

**SOURCE OF TITLE:**  
 DEED BOOK 213, PAGE 535

**SITE NUMBER:**  
 HV1273

**VERIZON WIRELESS SITE NAME:**  
 EV HICO ROAD

POD NUMBER: 17-14726  
 DRAWN BY: DAP  
 CHECKED BY: MEP  
 SURVEY DATE: 8.4.17  
 PLAT DATE: 10.25.17

**500' RADIUS AND ABUTTERS MAP**

**SHEET NUMBER:**  
**B-2**

**A1** PARCEL ID: 075-0-0003-B  
BARNETT JAMES C  
1550 KIRK RIDGE ROAD  
MURRAY, KY 42071

**B1** PARCEL ID: 075-0-0020-A  
BARNETT JAMES C  
1550 KIRK RIDGE ROAD  
MURRAY, KY 42071

**C1** PARCEL ID: 075-0-0020  
BARNETT JAMES C  
1550 KIRK RIDGE ROAD  
MURRAY, KY 42071

**D1** PARCEL ID: 075-0-0020-C  
WADE ROBERT KYLE  
685 LIBERTY ROAD  
MURRAY, KY 42071

**E1** PARCEL ID: 075-0-0017  
ROGERS ROBBIE  
481 VAN CLEAVE ROAD  
MURRAY, KY 42071

**F1** PARCEL ID: 075-0-0020-B  
THORN MARGARET  
642 OAKLEY ROAD  
BENTON, KY 42025

**G1** PARCEL ID: 075-0-0018  
YOUNG BURTON R  
111 S 13TH ST  
MURRAY, KY 42071

**H1** PARCEL ID: 075-0-0029  
JOHNSON WOOD LAND TRUST THE  
c/o MELISSA JOHNSON  
19622 HENNING ROAD  
DANVILLE, IL 61834

**I1** PARCEL ID: 074-0-0030  
BRANDON HOWARD  
701 S 12TH  
MURRAY, KY 42071

**J1** PARCEL ID: 074-0-0034-C  
HAGEMAN ROBERT  
1137 HICO ROAD  
DEXTER, KY 42036

**K1** PARCEL ID: 074-0-0034  
CARTWRIGHT DAVID & TARA  
1129 HICO ROAD  
DEXTER, KY 42036

**L1** PARCEL ID: 074-0-0034-A  
DIX PHILLIP D & S DOWNS  
1157 HICO ROAD  
DEXTER, KY 42036

**M1** PARCEL ID: 075-0-0002-A  
DOWNS HOWARD & CHRISTINE  
DIX PHILLIP & SHEILA F  
1157 HICO ROAD  
DEXTER, KY 42036

**N1** PARCEL ID: 075-0-0002  
MELTON REGINA L &  
HARRIS AMELIA L  
1220 WATKINS SEEBREE ROAD  
SEBREE, KY 42455

**O1** PARCEL ID: 075-0-0003  
FRAME RONALD & KIMBERLY D  
432 HICO ROAD  
MURRAY, KY 42071

**P1** PARCEL ID: 075-0-0003-A  
ELLIOTT MARY E  
660 MORRIS ROAD  
DEXTER, KY 42036

**Q1** PARCEL ID: 075-0-0003-E  
IRWIN KEVIN W  
568 MORRIS ROAD  
DEXTER, KY 42036

**R1** PARCEL ID: 075-0-0003-D  
GARLAND HOWARD  
466 MORRIS ROAD  
DEXTER, KY 42036

**S1** PARCEL ID: 075-0-0004-B  
MANNING JOE & CHERYL A  
118 ROLLING ACRES LANE  
MURRAY, KY 42071

**T1** PARCEL ID: 075-0-0004-D  
MANNING JOE & CHERYL A  
118 ROLLING ACRES LANE  
MURRAY, KY 42071

**U1** PARCEL ID: 075-0-0005  
DUNCAN MELANIE  
256 MORRIS ROAD  
DEXTER, KY 42036

**V1** PARCEL ID: 075-0-0004-A  
THOMPSON MONTY LEE  
391 MORRIS ROAD  
DEXTER, KY 42036

**W1** PARCEL ID: 075-0-0010  
DUNCAN AMY  
211 MORRIS ROAD  
DEXTER, KY 42036

**X1** PARCEL ID: 075-0-0010-A  
LYONS SANDRA  
534 OSBORNE ROAD  
MURRAY, KY 42071

**GENERAL NOTE:**

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CALLOWAY COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON AUGUST 4, 2017 AND RE-VERIFIED ON OCTOBER 25, 2017. 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 CALLOWAY 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 E. Patterson* 10/30/2017  
MARK PATTERSON, PLS #3136 DATE



**EXHIBIT**

REV.	DATE	DESCRIPTION
A	10.25.17	ISSUED FOR REVIEW
B	10.30.17	ISSUED AS FINAL

**SITE INFORMATION:**

**HICO ROAD**  
HICO ROAD  
MURRAY, KY 42071  
CALLOWAY COUNTY

**TAX PARCEL NUMBER:**  
075-0-0003-B

**PROPERTY OWNER:**  
JAMES CALVIN BARNETT &  
JANICE KAY BARNETT  
1550 KIRK RIDGE ROAD  
MURRAY, KY 42071

**SOURCE OF TITLE:**  
DEED BOOK 213, PAGE 535

**SITE NUMBER:**  
HV1273

**VERIZON WIRELESS SITE NAME:**  
EV HICO ROAD

**POD NUMBER:** 17-14726  
**DRAWN BY:** DAP  
**CHECKED BY:** MEP  
**SURVEY DATE:** 8.4.17  
**PLAT DATE:** 10.25.17

**SHEET TITLE:**

**500' RADIUS AND  
ABUTTERS MAP**

**SHEET NUMBER:**  
**B-2.1**

**REVISION LOG**

REV *	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	10/27/2017	ALL SHEETS	ISSUED FOR REVIEW
D	10/30/2017	ALL SHEETS	ISSUED AS FINAL



10/30/2017



EN PERMIT: 3594

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	10.27.17	ISSUED FOR REVIEW
D	10.30.17	ISSUED AS FINAL

SITE INFORMATION:  
**HICO ROAD**  
 HICO ROAD  
 MURRAY, KY 42071  
 CALLOWAY COUNTY

SKYWAY TOWERS SITE NUMBER:  
 HV1273

VERIZON WIRELESS SITE NAME:  
 EV HICO ROAD

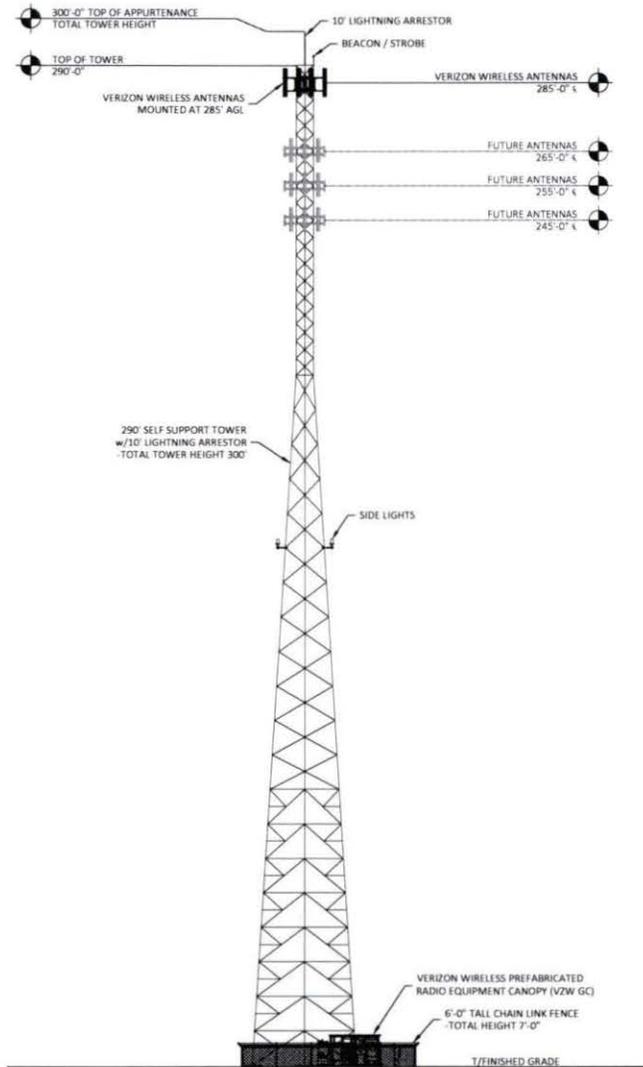
POD NUMBER: 17-14728

DRAWN BY: POD  
 CHECKED BY: MEP  
 DATE: 10.25.17

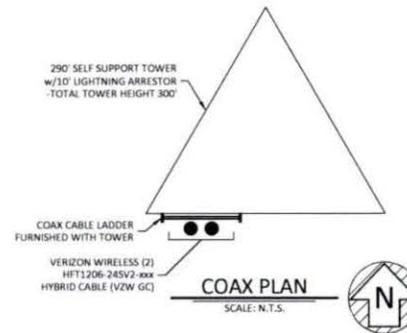
SHEET TITLE:

**REVISION LOG**

SHEET NUMBER:  
**R-1**



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



**NOTE:**

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



10/30/2017



EN PERMIT: 3594

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	10.27.17	ISSUED FOR REVIEW
D	10.30.17	ISSUED AS FINAL

**SITE INFORMATION:**

**HICO ROAD**  
HICO ROAD  
MURRAY, KY 42071  
CALLOWAY COUNTY

SKYWAY TOWERS SITE NUMBER:  
**HV1273**

VERIZON WIRELESS SITE NAME:  
**EV HICO ROAD**

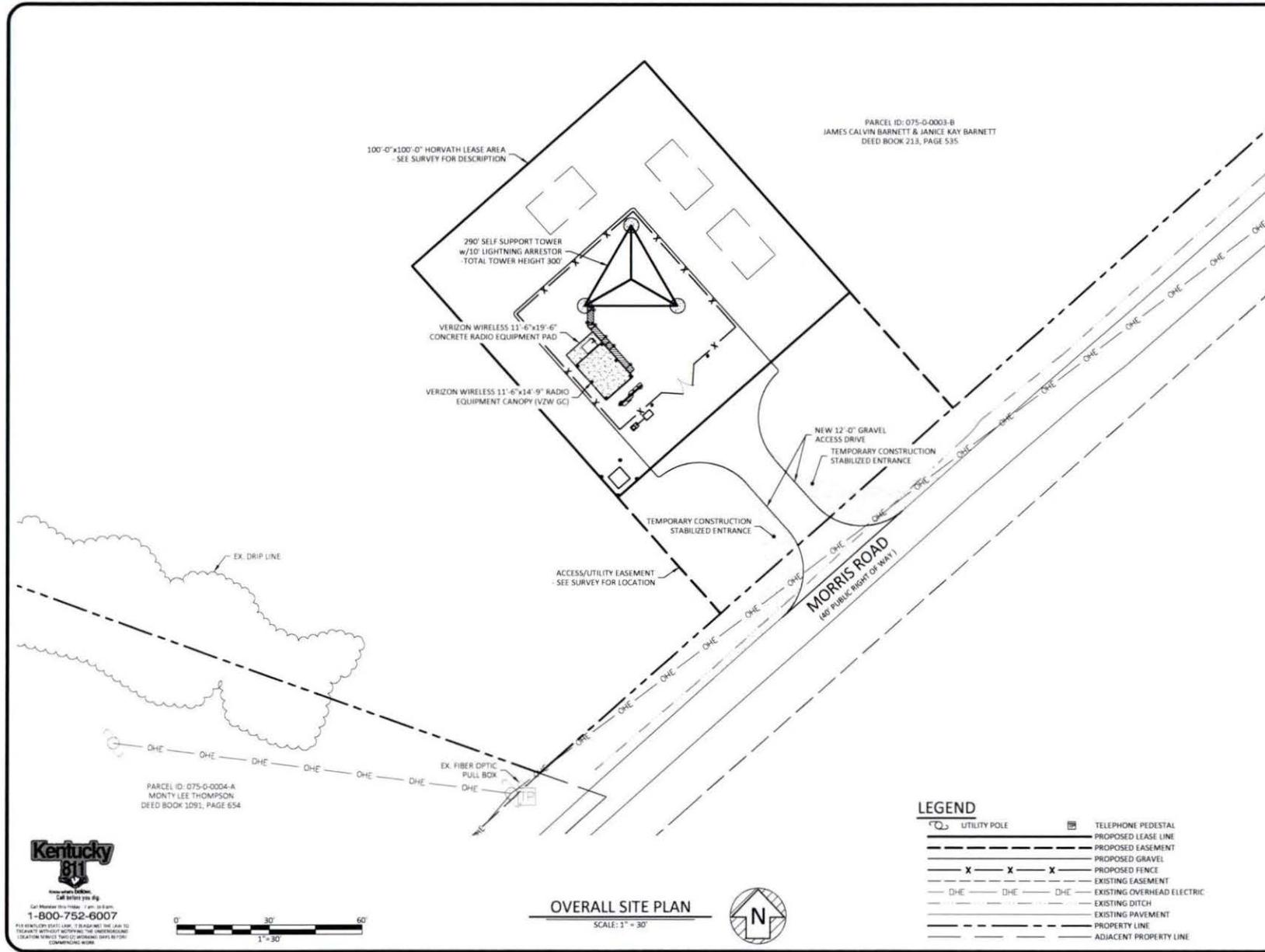
POD NUMBER: 17-14728  
DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 10.25.17

SHEET TITLE:

**TOWER ELEVATION**

SHEET NUMBER:  
**TE-1**





ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	10.27.17	ISSUED FOR REVIEW
D	10.30.17	ISSUED AS FINAL

SITE INFORMATION:  
HICO ROAD

HICO ROAD  
MURRAY, KY 42071  
CALLOWAY COUNTY

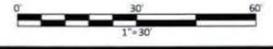
SKYWAY TOWERS SITE NUMBER:  
HV1273

VERIZON WIRELESS SITE NAME:  
EV HICO ROAD

POD NUMBER: 17-14728  
DRAWN BY: POD  
CHECKED BY: MEP  
DATE: 10.25.17

SHEET TITLE:  
OVERALL SITE PLAN

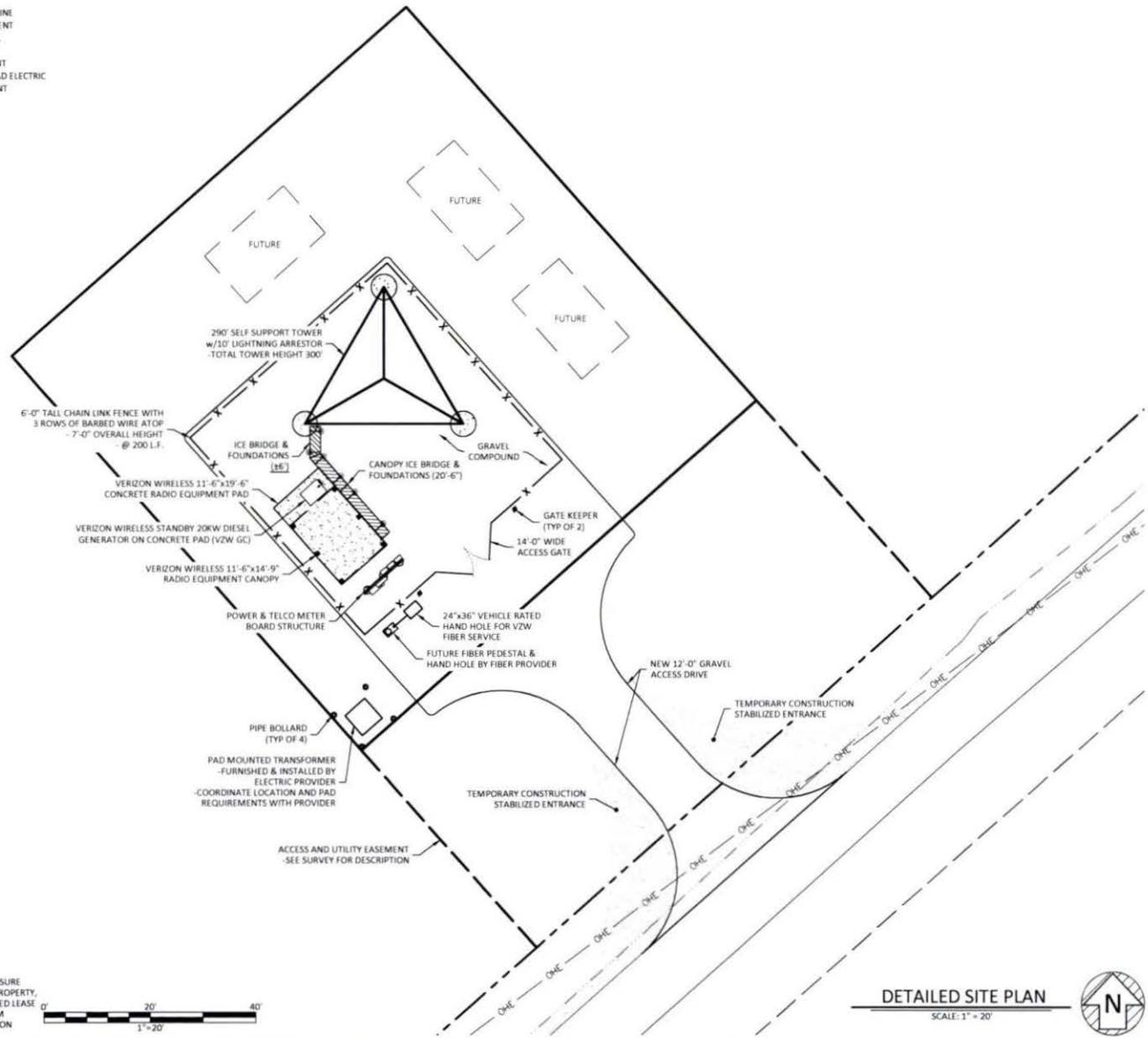
SHEET NUMBER:  
C-1A



OVERALL SITE PLAN  
SCALE: 1" = 30'

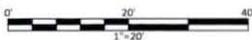
**LEGEND**

- PROPOSED LEASE LINE
- - - PROPOSED EASEMENT
- - - PROPOSED GRAVEL
- x - x - x - PROPOSED FENCE
- - - - - EXISTING EASEMENT
- DHE - DHE - DHE - EXISTING OVERHEAD ELECTRIC
- - - - - EXISTING PAVEMENT
- - - - - EXISTING DITCH
- - - - - PROPERTY LINE



**Kentucky 811**  
 Know what's below.  
 Call before you dig.  
 1-800-752-6007  
 FOR MORE COPY THESE AND TO OBTAIN THE LATEST  
 EDITIONS VISIT WWW.811KY.COM OR CALL 800-752-6007  
 CONTACT THE 811 CENTER

\*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'



10/30/2017

EN PERMIT: 3594

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	10.27.17	ISSUED FOR REVIEW
0	10.30.17	ISSUED AS FINAL

SITE INFORMATION:  
**HICO ROAD**

HICO ROAD  
 MURRAY, KY 42071  
 CALLOWAY COUNTY

SKYWAY TOWERS SITE NUMBER:  
**HV1273**

VERIZON WIRELESS SITE NAME:  
**EV HICO ROAD**

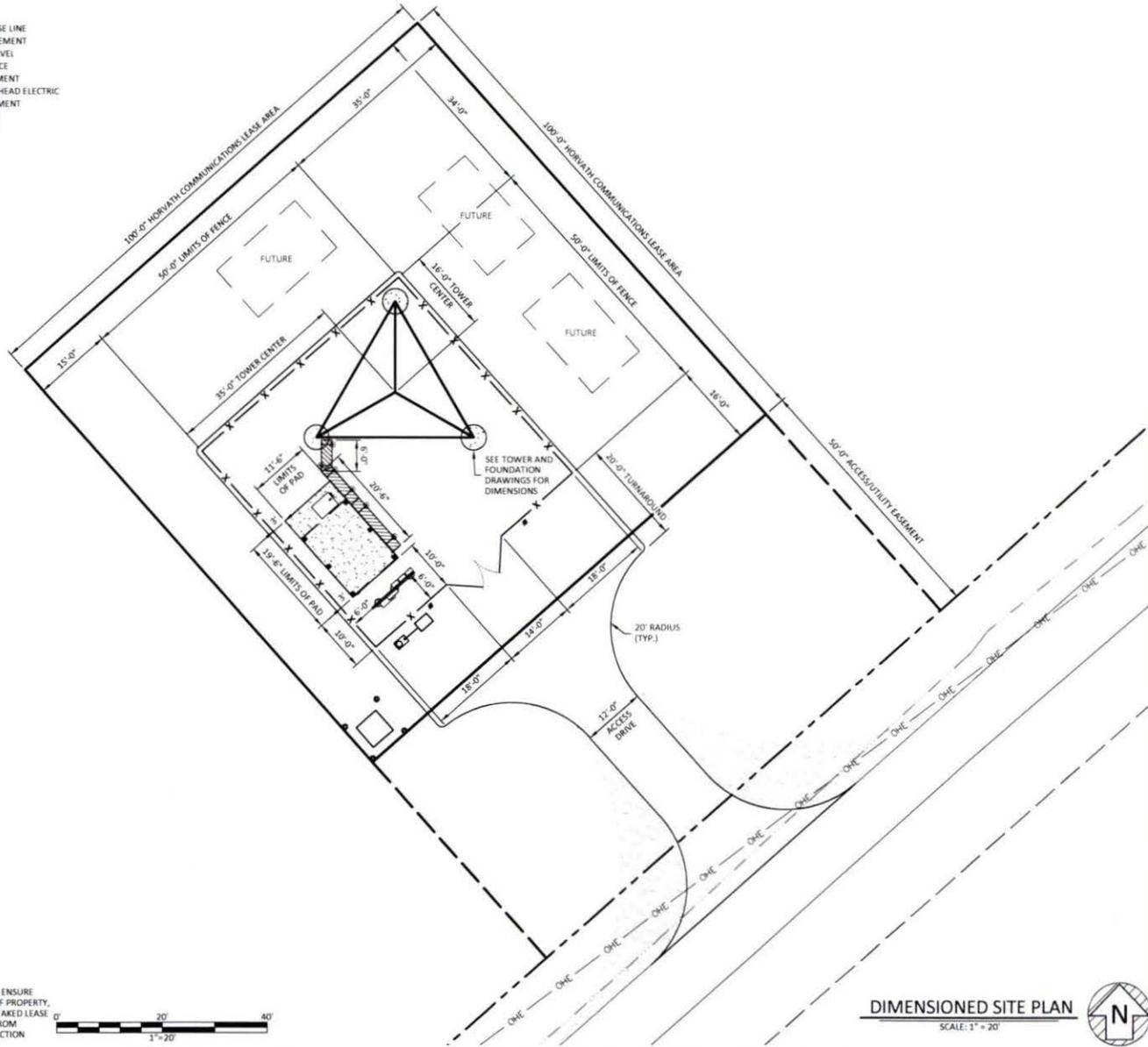
POD NUMBER: 17-14728  
 DRAWN BY: MEP  
 CHECKED BY: MEP  
 DATE: 10.25.17

SHEET TITLE:  
**DETAILED SITE PLAN**

SHEET NUMBER:  
**C-3**

**LEGEND**

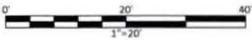
- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- X-X-X- PROPOSED FENCE
- EXISTING EASEMENT
- DHE- DHE- DHE- EXISTING OVERHEAD ELECTRIC
- EXISTING PAVEMENT
- EXISTING DITCH
- PROPERTY LINE



SEE TOWER AND FOUNDATION DRAWINGS FOR DIMENSIONS



**Kentucky 811**  
 Call before you dig.  
 1-800-752-6007  
 \*NOTE: GENERAL CONTRACTOR IS TO ENSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA WITHOUT APPROVAL FROM VERIZON WIRELESS CONSTRUCTION MANAGER



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





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



312 WEST COLFAX AVE  
 SOUTH BEND, IN 46601

10/30/2017



EN PERMIT: 3594

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
A	10.27.17	ISSUED FOR REVIEW
0	10.30.17	ISSUED AS FINAL

SITE INFORMATION:  
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SKYWAY TOWERS SITE NUMBER:  
 HV1273

VERIZON WIRELESS SITE NAME:  
 EV HICO ROAD

POD NUMBER: 17-14728  
 DRAWN BY: POD  
 CHECKED BY: MEP  
 DATE: 10.25.17

SHEET TITLE:  
**DIMENSIONED SITE PLAN**

SHEET NUMBER:  
**C-4**

# Exhibit C

**LIKELY COMPETITORS FOR PROPOSED FACILITY**

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

<b><u>Entity</u></b>	<b><u>Reason</u></b>
Crown Castle South, LLC	Owens towers (2) in Calloway and Marshall Counties
Sun Media, Inc.	Owens tower in Graves County
Crown Castle GT Company, LLC	Owens tower in Calloway County
Forever Communications, Inc.	Owens towers (2) in Calloway County
Vertical Bridge Towers, LLC	Owens tower in Calloway County
Kentucky RSA No. 1 Partnership	Owens towers (3) in Marshall County
West Kentucky Rural Telephone Coop Corp, Inc.	Owens tower in Marshall County
Crown Communications, LLC	Owens tower in Calloway County
Murray Electric System	Owens tower in Calloway County
SBA Properties, LLC	Owens towers (4) in Calloway and Marshall Counties
Murray-Calloway County Airport Board	Owens tower in Calloway County
CCATT, LLC	Owens tower in Calloway County
Verizon Wireless Tennessee Partnership	Owens tower in Henry County (TN)
SBA Monarch Towers II, LLC	Owens tower in Calloway County
American Towers, LLC	Owens tower in Calloway County
Skyway Towers, LLC	Owens tower in Calloway 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
				<input style="width: 150px;" type="text"/> <span style="float: right;">▼ Active ▼</span>
				<input type="button" value="Search"/>

	Utility ID	Utility Name	Utility Type	Class	City	State
<input type="button" value="View"/>	4107900	365 Wireless, LLC	Cellular	D	Atlanta	GA
<input type="button" value="View"/>	4109300	Access Point, Inc.	Cellular	D	Cary	NC
<input type="button" value="View"/>	4108300	Air Voice Wireless, LLC	Cellular	A	Bloomfield Hill	MI
<input type="button" value="View"/>	4110650	Alliant Technologies of KY, L.L.C.	Cellular	C	Morristown	NJ
<input type="button" value="View"/>	44451184	Alltel Communications, LLC	Cellular	A	Basking Ridge	NJ
<input type="button" value="View"/>	4110850	AltaWorx, LLC	Cellular	C	Fairhope	AL
<input type="button" value="View"/>	4107800	American Broadband and Telecommunications Company	Cellular	C	Toledo	OH
<input type="button" value="View"/>	4108650	AmeriMex Communications Corp.	Cellular	D	Dunedin	FL
<input type="button" value="View"/>	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
<input type="button" value="View"/>	4110700	Andrew David Balholm dba Norcell	Cellular	C	Clayton	WA
<input type="button" value="View"/>	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
<input type="button" value="View"/>	4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
<input type="button" value="View"/>	4108750	Blue Jay Wireless, LLC	Cellular	C	Carrollton	TX
<input type="button" value="View"/>	4111050	BlueBird Communications, LLC	Cellular	C	New York	NY
<input type="button" value="View"/>	4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY
<input type="button" value="View"/>	4107600	Boomerang Wireless, LLC	Cellular	B	Hiawatha	IA
<input type="button" value="View"/>	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI

<a href="#">View</a>	4110050	CampusSims, Inc.	Cellular	D	Boston	MA
<a href="#">View</a>	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4106600	Cintex Wireless, LLC	Cellular	D	Rockville	MD
<a href="#">View</a>	4111000	ComApp Technologies LLC	Cellular	C	Melrose	MA
<a href="#">View</a>	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
<a href="#">View</a>	4106400	Credo Mobile, Inc.	Cellular	A	San Francisco	CA
<a href="#">View</a>	4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
<a href="#">View</a>	4001900	CTC Communications Corp. d/b/a EarthLink Business I	Cellular	D	Grand Rapids	MI
<a href="#">View</a>	10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	KY
<a href="#">View</a>	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
<a href="#">View</a>	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
<a href="#">View</a>	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
<a href="#">View</a>	4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
<a href="#">View</a>	4105900	Flash Wireless, LLC	Cellular	C	Concord	NC
<a href="#">View</a>	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Oak Hill	VA
<a href="#">View</a>	4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
<a href="#">View</a>	4102200	Globalstar USA, LLC	Cellular	B	Covington	LA
<a href="#">View</a>	4109600	Google North America Inc.	Cellular	B	Mountain View	CA
<a href="#">View</a>	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
<a href="#">View</a>	4106000	GreatCall, Inc. d/b/a Jitterbug	Cellular	A	San Diego	CA
<a href="#">View</a>	10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4110600	Horizon River Technologies, LLC	Cellular	C	Atlanta	GA
<a href="#">View</a>	4103100	i-Wireless, LLC	Cellular	A	Newport	KY
<a href="#">View</a>	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Tulsa	OK
<a href="#">View</a>	22215360	KDDI America, Inc.	Cellular	D	New York	NY
<a href="#">View</a>	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	10680	Kentucky RSA #3 Cellular General	Cellular	A	Elizabethtown	KY
<a href="#">View</a>	10681	Kentucky RSA #4 Cellular General	Cellular	A	Elizabethtown	KY
<a href="#">View</a>	4109750	Konatel, Inc. dba telecom.mobi	Cellular	D	Johnstown	PA
<a href="#">View</a>	4110900	Lunar Labs, Inc.	Cellular	C	Detroit	MI
<a href="#">View</a>	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
<a href="#">View</a>	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA

<a href="#">View</a>	4109650	Mitel Cloud Services, Inc.	Cellular	D	Mesa	AZ
<a href="#">View</a>	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
<a href="#">View</a>	10900	New Par dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
<a href="#">View</a>	4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS
<a href="#">View</a>	4001800	OnStar, LLC	Cellular	A	Detroit	MI
<a href="#">View</a>	4110750	Onvoy Spectrum, LLC	Cellular	C	Plymouth	MN
<a href="#">View</a>	4109050	Patriot Mobile LLC	Cellular	D	Southlake	TX
<a href="#">View</a>	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
<a href="#">View</a>	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
<a href="#">View</a>	4202100	Powertel/Memphis, Inc. dba T-Mobile	Cellular	A	Bellevue	WA
<a href="#">View</a>	4107700	Puretalk Holdings, LLC	Cellular	A	Covington	GA
<a href="#">View</a>	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
<a href="#">View</a>	4108700	Ready Wireless, LLC	Cellular	B	Hiawatha	IA
<a href="#">View</a>	4110500	Republic Wireless, Inc.	Cellular	D	Raleigh	NC
<a href="#">View</a>	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	D	Los Angeles	CA
<a href="#">View</a>	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Freemont	NE
<a href="#">View</a>	4106300	SI Wireless, LLC	Cellular	A	Carbondale	IL
<a href="#">View</a>	4110150	Spectrotel, Inc. d/b/a Touch Base Communications	Cellular	D	Neptune	NJ
<a href="#">View</a>	4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
<a href="#">View</a>	4200500	SprintCom, Inc.	Cellular	A	Atlanta	GA
<a href="#">View</a>	4109550	Stream Communications, LLC	Cellular	D	Dallas	TX
<a href="#">View</a>	4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular	D	Red Bluff	CA
<a href="#">View</a>	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
<a href="#">View</a>	4002500	TAG Mobile, LLC	Cellular	D	Carrollton	TX
<a href="#">View</a>	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	South Portland	ME
<a href="#">View</a>	4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
<a href="#">View</a>	4108900	Telrite Corporation dba Life Wireless	Cellular	D	Covington	GA
<a href="#">View</a>	4108450	Tempo Telecom, LLC	Cellular	D	Kansas City	MO
<a href="#">View</a>	4109950	The People's Operator USA, LLC	Cellular	D	New York	NY
<a href="#">View</a>	4109000	Ting, Inc.	Cellular	A	Toronto	ON
<a href="#">View</a>	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL

<a href="#">View</a>	4103300	Touchtone Communications, Inc.	Cellular	D	Whippany	NJ
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<a href="#">View</a>	4002000	Truphone, Inc.	Cellular	D	Durham	NC
<a href="#">View</a>	4110300	UVNV, Inc.	Cellular	D	Costa Mesa	CA
<a href="#">View</a>	4105700	Virgin Mobile USA, L.P.	Cellular	A	Atlanta	GA
<a href="#">View</a>	4110800	Visible Service LLC	Cellular	C	Lone Tree	CO
<a href="#">View</a>	4106500	WiMacTel, Inc.	Cellular	D	Palo Alto	CA
<a href="#">View</a>	4110950	Wing Tel Inc.	Cellular	C	New York	NY
<a href="#">View</a>	4109900	Wireless Telecom Cooperative, Inc. dba theWirelessFreeway	Cellular	D	Louisville	KY

# Exhibit D



**Structural Design Report**

290' S3TL Series HD1 Self-Supporting Tower

Site: Hico Road, KY

Site Number: HV1273

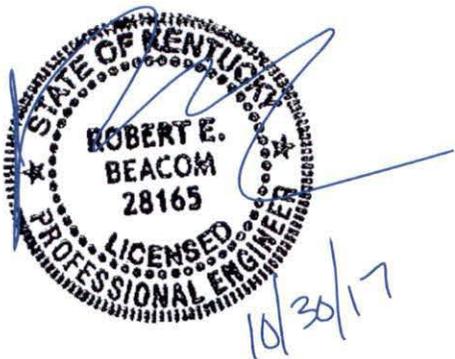
Prepared for: HORVATH COMMUNICATIONS INC

by: Sabre Towers & Poles™

Job Number: 18-3713-TJH

October 30, 2017

Tower Profile.....	1-2
Foundation Design Summary.....	3
Maximum Leg Loads.....	4
Maximum Diagonal Loads.....	5
Maximum Foundation Loads.....	6
Calculations.....	7-21





**Designed Appurtenance Loading**

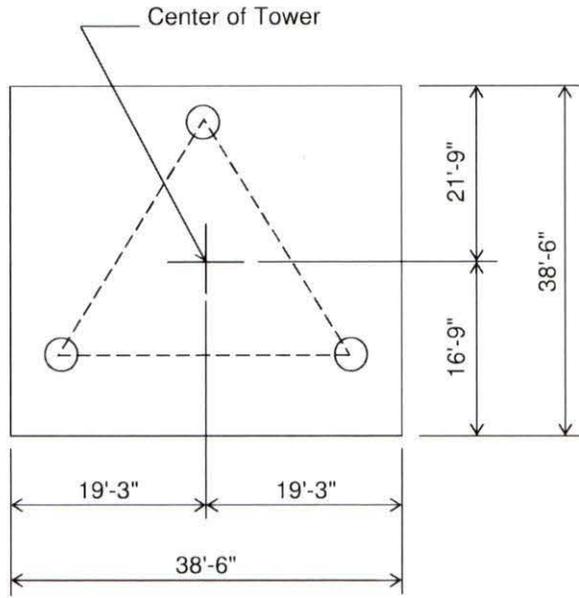
Elev	Description	Tx-Line	Elev	Description	Tx-Line
285	(1) 208 sq. ft. EPA 4000# (no ice)	(12) 1 5/8"	265	(1) 165 sq.ft. (no ice) 175 sq.ft. (ice)	(12) 1 5/8"
275	Leg Dish Mount		255	(1) 165 sq.ft. (no ice) 175 sq.ft. (ice)	(12) 1 5/8"
275	(1) 8' Solid Dish W/ Radome	(1) 1 5/8"	245	(1) 165 sq.ft. (no ice) 175 sq.ft. (ice)	(12) 1 5/8"

 <p><b>Sabre Industries</b> Towers and Poles</p> <p><b>Sabre Communications Corporation</b> 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 258-6690 Fax: (712) 279-0614</p> <p><small>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Communications Corporation.</small></p>	<p>Job: <b>18-3713-TJH</b></p> <p>Customer: <b>HORVATH COMMUNICATIONS INC</b></p> <p>Site Name: <b>Hico Road, KY HV1273</b></p> <p>Description: <b>290' S3TL</b></p> <p>Date: <b>10/30/2017</b> By: <b>REB</b></p>
---	--

**Customer: HORVATH COMMUNICATIONS INC**

**Site: Hico Road, KY HV1273**

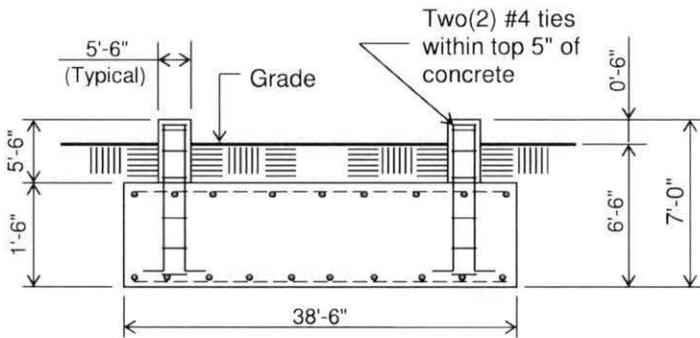
290 ft. Model S3TL Series HD1 Self Supporting Tower At  
89 mph Wind with no ice and 30 mph Wind with 1 in. Ice per ANSI/TIA-222-G.  
Antenna Loading per Page 1



**PLAN VIEW**

**Notes:**

- 1). Concrete shall have a minimum 28-day compressive strength of 4500 PSI, in accordance with ACI 318-11.
- 2). Rebar to conform to ASTM specification A615 Grade 60.
- 3). All rebar to have a minimum of 3" concrete cover.
- 4). All exposed concrete corners to be chamfered 3/4".
- 5). The foundation design is based on the geotechnical report by GPD Group, Inc.; project# 2017715.10; dated October 16, 2017.



**ELEVATION VIEW**

(96.87 Cu. Yds.)  
(1 REQD.; NOT TO SCALE)

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

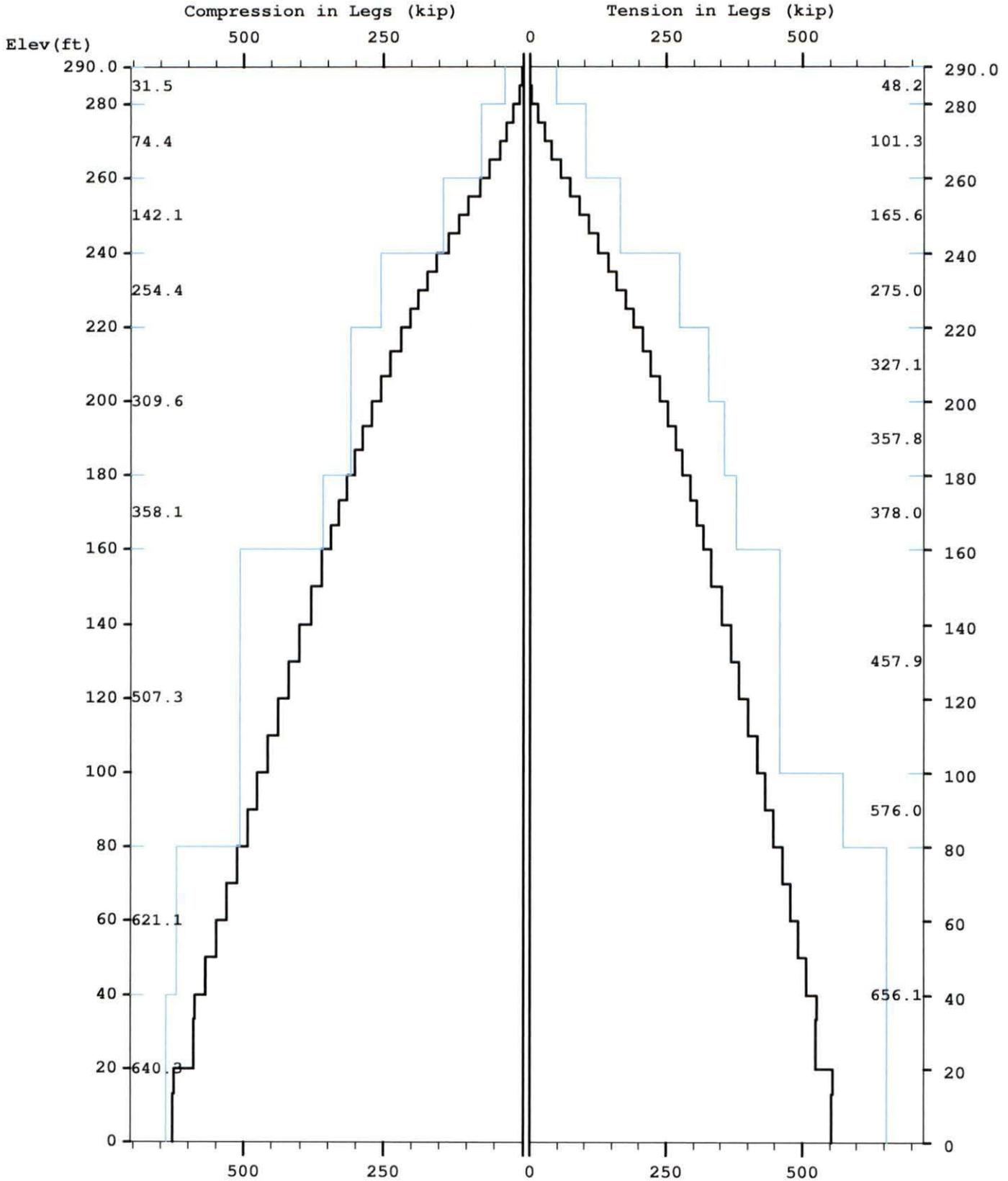
- 6). See the geotechnical report for compaction requirements, if specified.
- 7). The foundation is based on the following factored loads:  
Factored download (kips) = 95.72  
Factored overturn (kip-ft) = 16598.59  
Factored shear (kips) = 97.73

8). 5 ft of soil cover is required over the entire area of the foundation slab.

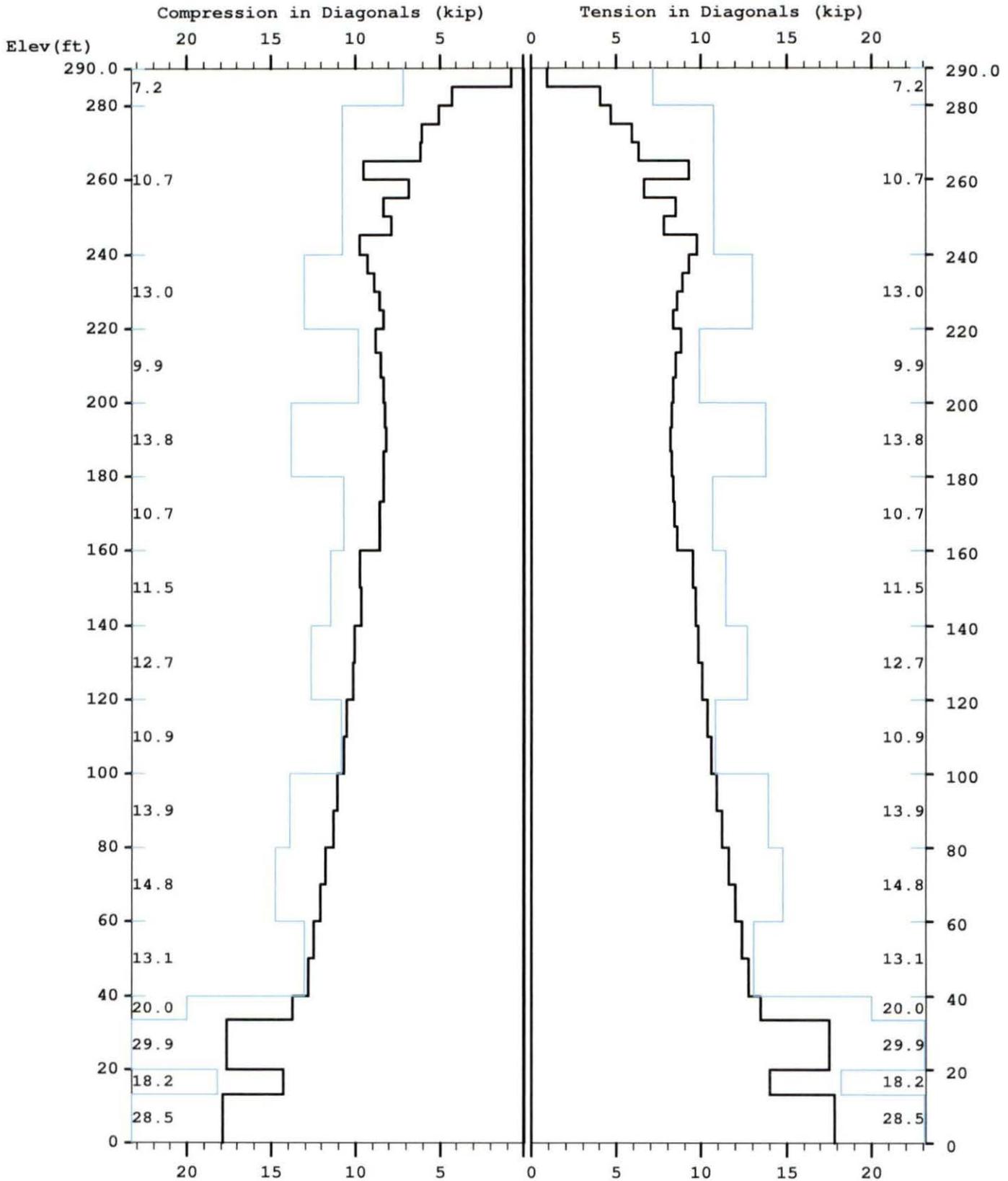
Rebar Schedule per Mat and per Pier	
Pier	(42) #6 vertical rebar w/ hooks at bottom w/ #4 Rebar ties, two (2) within top 5" of pier then 12" C/C
Mat	(68) #11 horizontal rebar evenly spaced each way top and bottom. (272 total)

9). Use Type V Portland cement with a maximum water-cement ratio of 0.45.

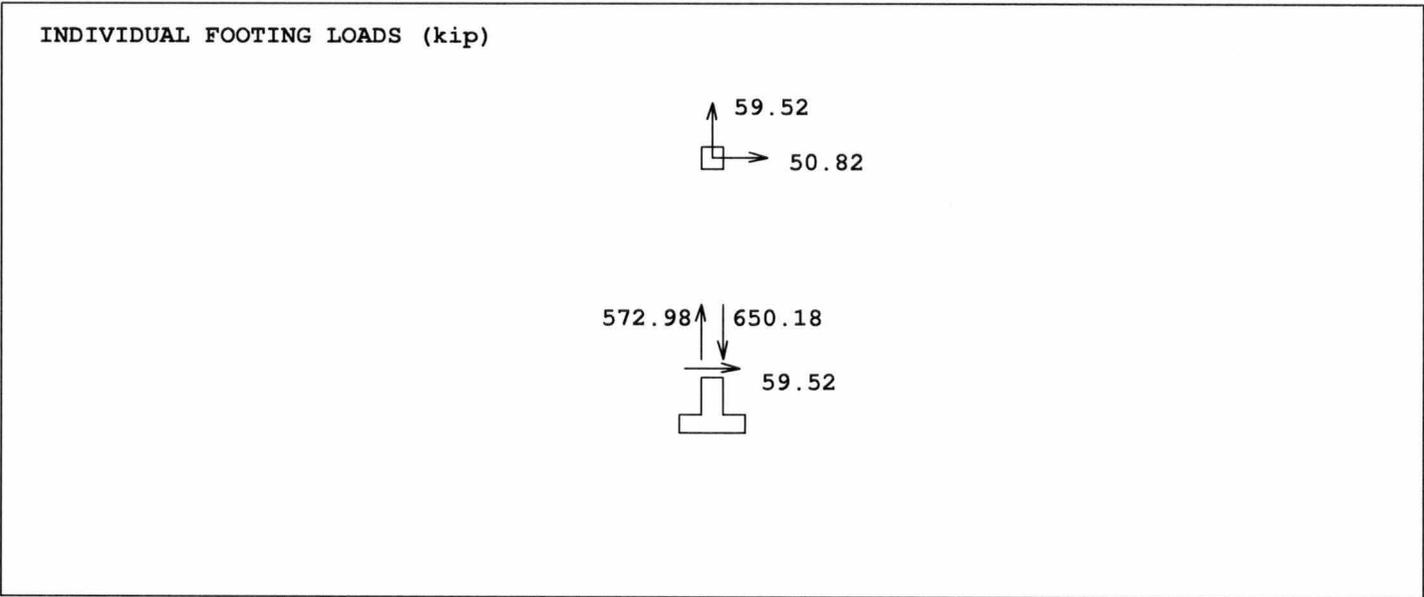
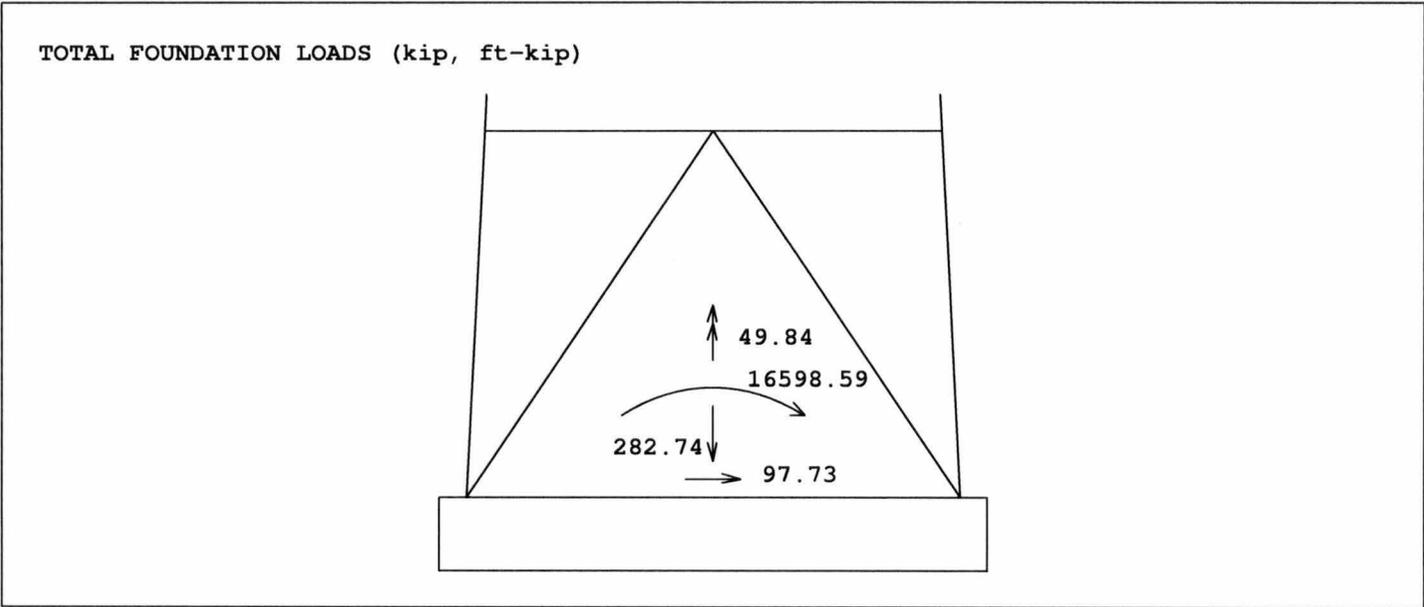
Maximum



Maximum



Maximum



Latticed Tower Analysis (Unguyed)  
 Processed under license at:

(c)2013 Guymast Inc. 416-736-7453

Sabre Towers and Poles

on: 24 oct 2017 at: 16:31:53

MAST GEOMETRY ( ft )

PANEL TYPE	NO.OF LEGS	ELEV.AT BOTTOM	ELEV.AT TOP	F.W..AT BOTTOM	F.W..AT TOP	TYPICAL PANEL HEIGHT
X	3	285.00	290.00	5.00	5.00	5.00
X	3	280.00	285.00	5.00	5.00	5.00
X	3	275.00	280.00	5.00	5.00	5.00
X	3	260.00	275.00	5.00	5.00	5.00
X	3	255.00	260.00	5.50	5.00	5.00
X	3	240.00	255.00	7.00	5.50	5.00
X	3	220.00	240.00	9.00	7.00	5.00
X	3	200.00	220.00	11.00	9.00	6.67
X	3	180.00	200.00	13.00	11.00	6.67
X	3	160.00	180.00	15.00	13.00	6.67
X	3	140.00	160.00	17.00	15.00	10.00
X	3	120.00	140.00	19.00	17.00	10.00
X	3	100.00	120.00	21.00	19.00	10.00
X	3	80.00	100.00	23.00	21.00	10.00
X	3	60.00	80.00	25.00	23.00	10.00
X	3	40.00	60.00	27.00	25.00	10.00
V	3	33.33	40.00	27.67	27.00	6.67
A	3	20.00	33.33	29.00	27.67	13.33
V	3	13.33	20.00	29.67	29.00	6.67
A	3	0.00	13.33	31.00	29.67	13.33

MEMBER PROPERTIES

MEMBER TYPE	BOTTOM ELEV ft	TOP ELEV ft	X-SECTN AREA in.sq	RADIUS OF GYRAT in	ELASTIC MODULUS ksi	THERMAL EXPANSN /deg
LE	280.00	290.00	1.075	0.787	29000.	0.0000117
LE	260.00	280.00	2.254	0.787	29000.	0.0000117
LE	240.00	260.00	3.678	0.787	29000.	0.0000117
LE	220.00	240.00	6.111	0.787	29000.	0.0000117
LE	180.00	220.00	7.952	0.787	29000.	0.0000117
LE	160.00	180.00	8.399	0.787	29000.	0.0000117
LE	80.00	160.00	12.763	0.787	29000.	0.0000117
LE	0.00	80.00	14.579	0.787	29000.	0.0000117
DI	280.00	290.00	0.484	0.626	29000.	0.0000117
DI	240.00	280.00	0.715	0.626	29000.	0.0000117
DI	200.00	240.00	0.902	0.626	29000.	0.0000117
DI	160.00	200.00	1.090	0.626	29000.	0.0000117
DI	140.00	160.00	1.562	0.626	29000.	0.0000117
DI	100.00	140.00	1.688	0.626	29000.	0.0000117
DI	40.00	100.00	1.938	0.626	29000.	0.0000117
DI	33.33	40.00	2.402	0.626	29000.	0.0000117
DI	20.00	33.33	2.559	0.626	29000.	0.0000117
DI	13.33	20.00	2.402	0.626	29000.	0.0000117
DI	0.00	13.33	2.559	0.626	29000.	0.0000117
HO	285.00	290.00	0.484	0.626	29000.	0.0000117
HO	275.00	280.00	0.715	0.626	29000.	0.0000117
HO	255.00	260.00	0.715	0.626	29000.	0.0000117
HO	20.00	33.33	1.688	0.626	29000.	0.0000117
HO	0.00	13.33	1.938	0.626	29000.	0.0000117
BR	20.00	33.33	1.438	0.000	29000.	0.0000117
BR	0.00	13.33	1.438	0.000	29000.	0.0000117

FACTORED MEMBER RESISTANCES

BOTTOM ELEV ft	TOP ELEV ft	LEGS		DIAGONALS		HORIZONTALS		INT BRACING	
		COMP kip	TENS kip	COMP kip	TENS kip	COMP kip	TENS kip	COMP kip	TENS kip

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285.0	290.0	31.48	48.15	7.16	7.16	5.73	5.73	0.00	0.00
280.0	285.0	31.48	48.15	7.16	7.16	0.00	0.00	0.00	0.00
275.0	280.0	74.39	101.25	10.74	10.74	8.38	8.38	0.00	0.00
260.0	275.0	74.39	101.25	10.74	10.74	0.00	0.00	0.00	0.00
255.0	260.0	142.05	165.60	10.74	10.74	8.38	8.38	0.00	0.00
240.0	255.0	142.05	165.60	10.74	10.74	0.00	0.00	0.00	0.00
220.0	240.0	254.38	274.95	13.03	13.03	0.00	0.00	0.00	0.00
200.0	220.0	309.64	327.10	9.85	9.85	0.00	0.00	0.00	0.00
180.0	200.0	309.64	357.75	13.79	13.79	0.00	0.00	0.00	0.00
160.0	180.0	358.08	378.00	10.69	10.69	0.00	0.00	0.00	0.00
140.0	160.0	507.33	457.90	11.47	11.47	0.00	0.00	0.00	0.00
120.0	140.0	507.33	457.90	12.68	12.68	0.00	0.00	0.00	0.00
100.0	120.0	507.33	457.90	10.85	10.85	0.00	0.00	0.00	0.00
80.0	100.0	507.33	576.00	13.92	13.92	0.00	0.00	0.00	0.00
60.0	80.0	621.06	656.10	14.76	14.76	0.00	0.00	0.00	0.00
40.0	60.0	621.06	656.10	13.08	13.08	0.00	0.00	0.00	0.00
33.3	40.0	640.29	656.10	20.02	20.02	0.00	0.00	0.00	0.00
20.0	33.3	640.29	656.10	29.94	29.94	11.30	11.30	7.55	7.55
13.3	20.0	640.29	656.10	18.24	18.24	0.00	0.00	0.00	0.00
0.0	13.3	640.29	656.10	28.50	28.50	14.22	14.22	6.72	6.72

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

LOADING CONDITION A =====

89 mph wind with no ice. Wind Azimuth: 0°

MAST LOADING  
 =====

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	7.69	4.80	0.00	0.00
C	265.0	0.00	0.0	0.0	6.01	3.00	0.00	0.00
C	255.0	0.00	0.0	0.0	5.96	3.00	0.00	0.00
C	245.0	0.00	0.0	0.0	5.91	3.00	0.00	0.00
D	290.0	0.00	180.0	0.0	0.07	0.04	0.00	0.00
D	285.0	0.00	180.0	0.0	0.07	0.04	0.00	0.00
D	285.0	0.00	42.0	0.0	0.13	0.05	0.04	0.09
D	280.0	0.00	42.0	0.0	0.13	0.05	0.04	0.09
D	280.0	0.00	42.0	0.0	0.14	0.08	0.04	0.09
D	265.0	0.00	42.0	0.0	0.13	0.07	0.04	0.09
D	265.0	0.00	51.4	0.0	0.15	0.10	0.07	0.11
D	260.0	0.00	51.4	0.0	0.15	0.10	0.07	0.11
D	260.0	0.00	52.6	0.0	0.17	0.12	0.06	0.11
D	255.0	0.00	52.6	0.0	0.17	0.12	0.06	0.11
D	255.0	0.00	77.4	0.0	0.18	0.13	0.06	0.13
D	245.0	0.00	79.6	0.0	0.18	0.13	0.06	0.12
D	245.0	0.00	92.7	0.0	0.20	0.15	0.06	0.09
D	240.0	0.00	92.7	0.0	0.20	0.15	0.06	0.09
D	240.0	0.00	90.7	0.0	0.22	0.19	0.07	0.09
D	220.0	0.00	95.0	0.0	0.23	0.20	0.06	0.08
D	220.0	0.00	85.0	0.0	0.22	0.21	0.08	0.09
D	200.0	0.00	87.6	0.0	0.22	0.22	0.07	0.09
D	200.0	0.00	80.9	0.0	0.23	0.23	0.10	0.10
D	180.0	0.00	82.8	0.0	0.24	0.23	0.09	0.09
D	180.0	0.00	77.9	0.0	0.25	0.24	0.11	0.11
D	160.0	0.00	79.3	0.0	0.25	0.25	0.10	0.10
D	160.0	0.00	75.7	0.0	0.23	0.30	0.13	0.11
D	140.0	0.00	76.6	0.0	0.24	0.31	0.12	0.11
D	140.0	0.00	74.0	0.0	0.24	0.32	0.14	0.12
D	120.0	0.00	74.6	0.0	0.25	0.32	0.14	0.11
D	120.0	0.00	72.5	0.0	0.24	0.32	0.16	0.12
D	100.0	0.00	73.1	0.0	0.25	0.33	0.15	0.12
D	100.0	0.00	71.4	0.0	0.25	0.35	0.18	0.12
D	80.0	0.00	71.8	0.0	0.26	0.35	0.17	0.12
D	80.0	0.00	70.4	0.0	0.27	0.38	0.19	0.12
D	60.0	0.00	70.8	0.0	0.27	0.38	0.18	0.12
D	60.0	0.00	69.6	0.0	0.26	0.39	0.21	0.12
D	40.0	0.00	69.9	0.0	0.26	0.39	0.20	0.12

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D	40.0	0.00	68.8	0.0	0.23	0.39	0.23	0.12
D	33.3	0.00	68.8	0.0	0.23	0.39	0.23	0.12
D	33.3	0.00	69.1	0.0	0.26	0.46	0.22	0.12
D	20.0	0.00	69.1	0.0	0.26	0.46	0.22	0.12
D	20.0	0.00	68.2	0.0	0.20	0.40	0.24	0.11
D	13.3	0.00	68.2	0.0	0.20	0.40	0.24	0.11
D	13.3	0.00	68.5	0.0	0.23	0.48	0.23	0.11
D	0.0	0.00	68.5	0.0	0.23	0.48	0.23	0.11

ANTENNA LOADING  
=====

.....ANTENNA.....	ATTACHMENT		.....ANTENNA FORCES.....					
TYPE	ELEV	AZI	RAD	AZI	AXIAL	SHEAR	GRAVITY	TORSION
	ft		ft		kip	kip	kip	ft-kip
STD+R	275.0	0.0	4.4	0.0	1.59	0.00	0.40	0.00

SUPPRESS PRINTING  
=====

LOADS	...FOR THIS LOADING..			.....MAXIMUMS.....				
	DISPL	MEMBER	FOUNDN	ALL	DISPL	MEMBER	FOUNDN	
INPUT		FORCES	LOADS			FORCES	LOADS	
	no	yes	yes	yes	no	no	no	no

LOADING CONDITION M =====

89 mph wind with no ice. Wind Azimuth: 0

MAST LOADING  
=====

LOAD	ELEV	APPLY..	LOAD..	AT	LOAD	.....FORCES.....		.....MOMENTS.....	
						HORIZ	DOWN	VERTICAL	TORSNAL
TYPE	ft	RADIUS	AZI	AZI	kip	kip	ft-kip	ft-kip	
C	285.0	0.00	0.0	0.0	7.69	3.60	0.00	0.00	
C	265.0	0.00	0.0	0.0	6.01	2.25	0.00	0.00	
C	255.0	0.00	0.0	0.0	5.96	2.25	0.00	0.00	
C	245.0	0.00	0.0	0.0	5.91	2.25	0.00	0.00	
D	290.0	0.00	180.0	0.0	0.07	0.03	0.00	0.00	
D	285.0	0.00	180.0	0.0	0.07	0.03	0.00	0.00	
D	285.0	0.00	42.0	0.0	0.13	0.04	0.03	0.09	
D	280.0	0.00	42.0	0.0	0.13	0.04	0.03	0.09	
D	280.0	0.00	42.0	0.0	0.14	0.06	0.03	0.09	
D	265.0	0.00	42.0	0.0	0.13	0.06	0.03	0.09	
D	265.0	0.00	51.4	0.0	0.15	0.07	0.05	0.11	
D	260.0	0.00	51.4	0.0	0.15	0.07	0.05	0.11	
D	260.0	0.00	52.6	0.0	0.17	0.09	0.05	0.11	
D	255.0	0.00	52.6	0.0	0.17	0.09	0.05	0.11	
D	255.0	0.00	77.4	0.0	0.18	0.10	0.05	0.13	
D	245.0	0.00	79.6	0.0	0.18	0.10	0.04	0.12	
D	245.0	0.00	92.7	0.0	0.20	0.11	0.05	0.09	
D	240.0	0.00	92.7	0.0	0.20	0.11	0.05	0.09	
D	240.0	0.00	90.7	0.0	0.22	0.14	0.05	0.09	
D	220.0	0.00	95.0	0.0	0.23	0.15	0.04	0.08	
D	220.0	0.00	85.0	0.0	0.22	0.16	0.06	0.09	
D	200.0	0.00	87.6	0.0	0.22	0.16	0.05	0.09	
D	200.0	0.00	80.9	0.0	0.23	0.17	0.07	0.10	
D	180.0	0.00	82.8	0.0	0.24	0.17	0.06	0.09	
D	180.0	0.00	77.9	0.0	0.25	0.18	0.08	0.11	
D	160.0	0.00	79.3	0.0	0.25	0.18	0.08	0.10	
D	160.0	0.00	75.7	0.0	0.23	0.23	0.10	0.11	
D	140.0	0.00	76.6	0.0	0.24	0.23	0.09	0.11	
D	140.0	0.00	74.0	0.0	0.24	0.24	0.11	0.12	
D	120.0	0.00	74.6	0.0	0.25	0.24	0.10	0.11	
D	120.0	0.00	72.5	0.0	0.24	0.24	0.12	0.12	
D	100.0	0.00	73.1	0.0	0.25	0.25	0.11	0.12	
D	100.0	0.00	71.4	0.0	0.25	0.26	0.13	0.12	
D	80.0	0.00	71.8	0.0	0.26	0.26	0.13	0.12	
D	80.0	0.00	70.4	0.0	0.27	0.28	0.14	0.12	

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D	60.0	0.00	70.8	0.0	0.27	0.29	0.14	0.12
D	60.0	0.00	69.6	0.0	0.26	0.29	0.16	0.12
D	40.0	0.00	69.9	0.0	0.26	0.29	0.15	0.12
D	40.0	0.00	68.8	0.0	0.23	0.29	0.17	0.12
D	33.3	0.00	68.8	0.0	0.23	0.29	0.17	0.12
D	33.3	0.00	69.1	0.0	0.26	0.34	0.16	0.12
D	20.0	0.00	69.1	0.0	0.26	0.34	0.16	0.12
D	20.0	0.00	68.2	0.0	0.20	0.30	0.18	0.11
D	13.3	0.00	68.2	0.0	0.20	0.30	0.18	0.11
D	13.3	0.00	68.5	0.0	0.23	0.36	0.18	0.11
D	0.0	0.00	68.5	0.0	0.23	0.36	0.18	0.11

ANTENNA LOADING

=====

.....ANTENNA.....			ATTACHMENT		.....ANTENNA FORCES.....			
TYPE	ELEV ft	AZI	RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	275.0	0.0	4.4	0.0	1.59	0.00	0.30	0.00

SUPPRESS PRINTING

=====

LOADS INPUT	...FOR THIS LOADING..				.....MAXIMUMS.....			
	DISPL	MEMBER FORCES	FOUNDN LOADS		ALL	DISPL	MEMBER FORCES	FOUNDN LOADS
	no	yes	yes	yes	no	no	no	no

LOADING CONDITION Y

30 mph wind with 1 ice. wind Azimuth: 0

MAST LOADING

=====

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD.. AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	285.0	0.00	0.0	0.0	1.90	14.72	0.00	0.00
C	265.0	0.00	0.0	0.0	0.55	7.93	0.00	0.00
C	255.0	0.00	0.0	0.0	0.55	7.91	0.00	0.00
C	245.0	0.00	0.0	0.0	0.54	7.89	0.00	0.00
D	290.0	0.00	180.0	0.0	0.01	0.25	0.00	0.00
D	285.0	0.00	180.0	0.0	0.01	0.25	0.00	0.00
D	285.0	0.00	42.0	0.0	0.02	0.31	0.23	0.01
D	280.0	0.00	42.0	0.0	0.02	0.31	0.23	0.01
D	280.0	0.00	42.0	0.0	0.02	0.39	0.23	0.01
D	275.0	0.00	42.0	0.0	0.02	0.39	0.23	0.01
D	275.0	0.00	42.0	0.0	0.02	0.34	0.25	0.01
D	265.0	0.00	42.0	0.0	0.02	0.34	0.25	0.01
D	265.0	0.00	58.7	0.0	0.02	0.41	0.26	0.01
D	260.0	0.00	58.7	0.0	0.02	0.41	0.26	0.01
D	260.0	0.00	60.0	0.0	0.02	0.49	0.26	0.01
D	255.0	0.00	60.0	0.0	0.02	0.49	0.26	0.01
D	255.0	0.00	90.8	0.0	0.02	0.53	0.28	0.01
D	250.0	0.00	90.8	0.0	0.02	0.53	0.28	0.01
D	250.0	0.00	93.0	0.0	0.02	0.53	0.27	0.01
D	245.0	0.00	93.0	0.0	0.02	0.53	0.27	0.01
D	245.0	0.00	89.2	0.0	0.02	0.61	0.22	0.00
D	240.0	0.00	89.2	0.0	0.02	0.61	0.22	0.00
D	240.0	0.00	87.3	0.0	0.02	0.69	0.23	0.00
D	235.0	0.00	87.3	0.0	0.02	0.69	0.23	0.00
D	235.0	0.00	88.5	0.0	0.02	0.70	0.22	0.00
D	230.0	0.00	88.5	0.0	0.02	0.70	0.22	0.00
D	230.0	0.00	89.7	0.0	0.02	0.71	0.21	0.00
D	225.0	0.00	89.7	0.0	0.02	0.71	0.21	0.00
D	225.0	0.00	90.9	0.0	0.02	0.72	0.19	0.00
D	220.0	0.00	90.9	0.0	0.02	0.72	0.19	0.00
D	220.0	0.00	82.1	0.0	0.02	0.70	0.28	0.00
D	213.3	0.00	82.1	0.0	0.02	0.70	0.28	0.00

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D	213.3	0.00	83.2	0.0	0.02	0.71	0.27	0.00
D	206.7	0.00	83.2	0.0	0.02	0.71	0.27	0.00
D	206.7	0.00	84.3	0.0	0.02	0.72	0.25	0.00
D	200.0	0.00	84.3	0.0	0.02	0.72	0.25	0.00
D	200.0	0.00	78.4	0.0	0.02	0.76	0.34	0.00
D	193.3	0.00	78.4	0.0	0.02	0.76	0.34	0.00
D	193.3	0.00	79.2	0.0	0.03	0.77	0.32	0.00
D	186.7	0.00	79.2	0.0	0.03	0.77	0.32	0.00
D	186.7	0.00	80.0	0.0	0.03	0.79	0.30	0.00
D	180.0	0.00	80.0	0.0	0.03	0.79	0.30	0.00
D	180.0	0.00	75.8	0.0	0.03	0.82	0.39	0.00
D	160.0	0.00	77.0	0.0	0.03	0.84	0.35	0.00
D	160.0	0.00	73.9	0.0	0.03	0.85	0.44	0.00
D	150.0	0.00	73.9	0.0	0.03	0.85	0.44	0.00
D	150.0	0.00	74.6	0.0	0.03	0.86	0.41	0.00
D	140.0	0.00	74.6	0.0	0.03	0.86	0.41	0.00
D	140.0	0.00	72.3	0.0	0.03	0.88	0.49	0.00
D	130.0	0.00	72.3	0.0	0.03	0.88	0.49	0.00
D	130.0	0.00	72.9	0.0	0.03	0.90	0.47	0.00
D	120.0	0.00	72.9	0.0	0.03	0.90	0.47	0.00
D	120.0	0.00	71.1	0.0	0.03	0.90	0.55	0.01
D	110.0	0.00	71.1	0.0	0.03	0.90	0.55	0.01
D	110.0	0.00	71.6	0.0	0.03	0.92	0.52	0.00
D	100.0	0.00	71.6	0.0	0.03	0.92	0.52	0.00
D	100.0	0.00	70.1	0.0	0.03	0.96	0.60	0.01
D	90.0	0.00	70.1	0.0	0.03	0.96	0.60	0.01
D	90.0	0.00	70.5	0.0	0.03	0.97	0.57	0.01
D	80.0	0.00	70.5	0.0	0.03	0.97	0.57	0.01
D	80.0	0.00	69.2	0.0	0.03	1.03	0.65	0.00
D	70.0	0.00	69.2	0.0	0.03	1.03	0.65	0.00
D	70.0	0.00	69.6	0.0	0.03	1.04	0.62	0.01
D	60.0	0.00	69.6	0.0	0.03	1.04	0.62	0.01
D	60.0	0.00	68.5	0.0	0.03	1.04	0.69	0.00
D	40.0	0.00	68.8	0.0	0.03	1.04	0.67	0.00
D	40.0	0.00	67.9	0.0	0.02	0.96	0.74	0.00
D	33.3	0.00	67.9	0.0	0.02	0.96	0.74	0.00
D	33.3	0.00	68.1	0.0	0.03	1.24	0.72	0.00
D	20.0	0.00	68.1	0.0	0.03	1.24	0.72	0.00
D	20.0	0.00	67.4	0.0	0.02	0.97	0.85	0.00
D	13.3	0.00	67.4	0.0	0.02	0.97	0.85	0.00
D	13.3	0.00	67.6	0.0	0.02	1.32	1.07	0.00
D	0.0	0.00	67.6	0.0	0.02	1.32	1.07	0.00

ANTENNA LOADING

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.....ANTENNA.....			ATTACHMENT		.....ANTENNA FORCES.....			
TYPE	ELEV ft	AZI	RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	275.0	0.0	4.4	0.0	0.12	0.00	1.96	0.00

SUPPRESS PRINTING

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LOADS INPUT	...FOR THIS LOADING..			.....MAXIMUMS.....			
	DISPL	MEMBER FORCES	FOUNDN LOADS	ALL	DISPL	MEMBER FORCES	FOUNDN LOADS
no	yes	yes	yes	no	no	no	no

MAXIMUM MAST DISPLACEMENTS:

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ELEV ft	-----DEFLECTIONS (ft)-----			--TILTS (DEG)---		TWIST DEG
	NORTH	EAST	DOWN	NORTH	EAST	
290.0	4.622 G	4.159 J	0.063 G	2.134 G	1.930 J	0.207 D
285.0	4.436 G	3.991 J	0.060 G	2.136 G	1.932 J	0.207 D
280.0	4.247 G	3.819 J	0.056 G	2.123 G	1.919 J	0.207 D
275.0	4.060 G	3.651 J	0.053 G	2.100 G	1.898 J	0.208 D
270.0	3.877 G	3.485 J	0.049 G	2.058 G	1.859 J	0.191 D
265.0	3.697 G	3.323 J	0.046 G	1.997 G	1.803 J	0.175 D
260.0	3.523 G	3.166 J	0.043 G	1.910 G	1.724 J	0.160 D
255.0	3.356 G	3.015 J	0.040 G	1.847 G	1.667 J	0.146 D
250.0	3.195 G	2.870 J	0.039 e	1.776 G	1.603 J	0.134 D

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245.0	3.041 G	2.730 J	0.038 e	1.698 G	1.533 J	0.123 D
240.0	2.892 G	2.596 J	0.037 e	1.614 G	1.457 J	0.113 D
235.0	2.751 G	2.469 J	0.036 e	1.561 G	1.409 J	0.106 D
230.0	2.613 G	2.344 J	0.036 e	1.504 G	1.357 J	0.100 D
225.0	2.483 G	2.227 J	0.035 e	1.446 G	1.304 J	0.094 L
220.0	2.356 G	2.112 J	0.034 e	1.385 G	1.249 J	0.090 L
213.3	2.195 G	1.967 J	0.034 e	1.324 G	1.193 J	0.086 L
206.7	2.040 G	1.827 J	0.033 e	1.261 G	1.136 J	0.081 L
200.0	1.893 G	1.695 J	0.032 e	1.198 G	1.078 J	0.077 L
193.3	1.754 G	1.570 J	0.031 e	1.134 G	1.020 J	0.073 L
186.7	1.623 G	1.452 J	0.030 e	1.070 G	0.962 J	0.069 L
180.0	1.499 G	1.340 J	0.029 e	1.006 G	0.904 J	0.065 L
173.3	1.382 G	1.235 J	0.028 e	0.946 G	0.850 J	0.061 L
166.7	1.272 G	1.136 J	0.027 e	0.887 G	0.796 J	0.057 L
160.0	1.168 G	1.043 J	0.026 e	0.827 G	0.742 J	0.053 L
150.0	1.025 G	0.915 J	0.025 e	0.769 G	0.690 J	0.049 L
140.0	0.892 G	0.796 J	0.024 e	0.711 G	0.638 J	0.045 L
130.0	0.769 G	0.686 J	0.023 e	0.654 G	0.586 J	0.042 L
120.0	0.656 G	0.585 J	0.021 e	0.597 G	0.535 J	0.038 L
110.0	0.552 G	0.492 J	0.020 e	0.541 G	0.484 J	0.034 L
100.0	0.458 G	0.408 J	0.018 e	0.486 G	0.434 J	0.030 L
90.0	0.374 G	0.333 J	0.017 e	0.430 G	0.384 J	0.027 L
80.0	0.299 G	0.266 J	0.015 e	0.375 G	0.335 J	0.024 L
70.0	0.233 G	0.207 J	0.013 e	0.328 G	0.293 J	0.020 L
60.0	0.174 G	0.155 J	0.012 e	0.281 G	0.251 J	0.017 L
50.0	0.118 G	0.105 J	0.010 e	0.233 G	0.208 J	0.013 L
40.0	0.068 G	0.061 J	0.008 e	0.185 G	0.165 J	0.009 L
33.3	0.051 G	0.045 J	0.007 Z	0.155 G	0.138 J	0.008 L
20.0	0.018 G	0.016 J	0.004 Z	0.092 G	0.082 J	0.005 L
13.3	0.007 G	0.006 J	0.003 Z	0.062 G	0.055 J	0.003 L
0.0	0.000 A					

MAXIMUM ANTENNA AND REFLECTOR ROTATIONS:

=====

ELEV ft	AZI deg	TYPE *	.....BEAM DEFLECTIONS (deg).....			
			PITCH	YAW	ROLL	TOTAL
275.0	0.0	STD+R	-1.898 J	0.208 P	-2.100 G	1.909 J

MAXIMUM TENSION IN MAST MEMBERS (kip)

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ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0	-----	-----	0.50 M	0.00 A
285.0	0.34 S	0.96 G	0.09 C	0.00 A
280.0	2.99 M	4.01 M	1.64 E	0.00 A
275.0	13.96 M	4.71 T	0.17 A	0.00 A
270.0	25.60 M	5.89 H	0.05 V	0.00 A
265.0	37.96 M	6.30 B	0.18 A	0.00 A
260.0	54.59 M	9.30 T	1.68 E	0.00 A
255.0	71.90 M	6.62 M	0.18 A	0.00 A
250.0	88.86 M	8.47 H	0.17 A	0.00 A
245.0	105.83 M	7.79 N	0.09 A	0.00 A
240.0	122.60 M	9.76 T	0.18 A	0.00 A
235.0	142.32 M	9.23 B	0.05 A	0.00 A
230.0	158.45 M	8.84 T	0.18 A	0.00 A
225.0	174.78 M	8.53 H	0.05 A	0.00 A
220.0	188.84 M	8.30 T	0.16 A	0.00 A
213.3	205.04 M	8.77 H	0.09 A	0.00 A
	221.50 M	8.51 T		

ELEV	MEMBER	DIAG	MEMBER	DIAG	MEMBER	DIAG
206.7	237.62 M	8.32 T	0.13 A	0.00 A		
200.0	252.22 M	8.23 H	0.09 A	0.00 A		
193.3	266.64 M	8.18 F	0.11 A	0.00 A		
186.7	280.03 M	8.23 R	0.08 A	0.00 A		
180.0	293.32 M	8.31 F	0.09 A	0.00 A		
173.3	305.90 M	8.42 F	0.10 A	0.00 A		
166.7	318.46 M	8.56 F	0.08 A	0.00 A		
160.0	333.21 M	9.52 R	0.10 A	0.00 A		
150.0	350.83 M	9.65 R	0.10 A	0.00 A		
140.0	367.60 M	9.83 R	0.08 A	0.00 A		
130.0	384.23 M	10.06 F	0.09 A	0.00 A		
120.0	400.30 M	10.31 F	0.08 A	0.00 A		
110.0	416.30 M	10.58 F	0.08 A	0.00 A		
100.0	431.86 M	10.88 F	0.06 A	0.00 A		
90.0	447.40 M	11.21 F	0.07 A	0.00 A		
80.0	462.64 M	11.58 F	0.05 A	0.00 A		
70.0	477.90 M	11.97 F	0.06 A	0.00 A		
60.0	493.02 M	12.36 F	0.05 K	0.00 A		
50.0	508.11 M	12.73 F	0.08 S	0.00 A		
40.0	525.75 M	13.43 R	0.28 A	0.00 A		
33.3	524.66 M	17.49 F	0.94 M	0.00 U		
20.0	555.12 M	14.05 F	0.13 A	0.00 U		
13.3	553.99 M	17.81 F	0.83 M	0.00 X		
0.0			0.00 A	0.00 A		

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MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV	MEMBER	DIAG	MEMBER	DIAG	MEMBER	DIAG
290.0	-0.85 Y	-0.76 M	-0.64 G	0.00 A		
285.0	-6.06 e	-4.29 G	-0.07 U	0.00 A		
280.0	-16.97 G	-5.04 B	-1.28 O	0.00 A		
275.0	-29.86 G	-6.03 B	-0.12 S	0.00 A		
270.0	-42.30 G	-6.17 T	-0.05 D	0.00 A		
265.0	-60.56 G	-9.50 B	-0.13 S	0.00 A		
260.0	-78.05 G	-6.86 G	-1.61 W	0.00 A		
255.0	-97.56 G	-8.38 N	-0.13 S	0.00 A		
250.0	-114.77 G	-7.90 H	-0.16 S	0.00 A		
245.0	-133.87 G	-9.78 B	-0.06 S	0.00 A		
240.0			-0.16 S	0.00 A		

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235.0	-154.26 G	-9.25 H	-0.03 S	0.00 A
230.0	-171.08 G	-8.86 H	-0.16 S	0.00 A
225.0	-188.18 G	-8.55 H	-0.04 S	0.00 A
220.0	-203.00 G	-8.32 H	-0.14 S	0.00 A
213.3	-220.17 G	-8.80 H	-0.08 S	0.00 A
206.7	-237.78 G	-8.53 H	-0.12 S	0.00 A
200.0	-255.10 G	-8.35 H	-0.08 S	0.00 A
193.3	-270.94 G	-8.28 G	-0.10 S	0.00 A
186.7	-286.67 G	-8.21 F	-0.07 S	0.00 A
180.0	-301.40 G	-8.33 G	-0.08 S	0.00 A
173.3	-316.08 G	-8.34 F	-0.09 S	0.00 A
166.7	-330.09 G	-8.55 G	-0.07 S	0.00 A
160.0	-344.12 G	-8.58 F	-0.08 S	0.00 A
150.0	-360.87 G	-9.75 G	-0.09 S	0.00 A
140.0	-381.12 G	-9.70 G	-0.07 S	0.00 A
130.0	-400.54 G	-10.06 G	-0.08 S	0.00 A
120.0	-419.92 G	-10.14 G	-0.07 S	0.00 A
110.0	-438.76 G	-10.54 G	-0.07 S	0.00 A
100.0	-457.62 G	-10.69 G	-0.05 S	0.00 A
90.0	-476.11 G	-11.11 G	-0.06 S	0.00 A
80.0	-494.70 G	-11.35 G	-0.05 S	0.00 A
70.0	-513.11 G	-11.81 G	-0.05 S	0.00 A
60.0	-531.67 G	-12.11 G	-0.06 E	0.00 A
50.0	-550.15 G	-12.51 G	-0.09 A	0.00 A
40.0	-568.63 G	-12.84 G	-0.25 S	0.00 A
33.3	-589.46 G	-13.77 G	-1.11 G	0.00 A
20.0	-590.91 G	-17.68 G	-0.11 S	0.00 A
13.3	-626.28 G	-14.28 G	-1.00 G	0.00 R
0.0	-627.79 G	-17.93 G	0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

NORTH	LOAD EAST	COMPONENTS DOWN	UPLIFT	TOTAL SHEAR
59.52 G	50.82 K	650.18 G	-572.98 M	59.52 G

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

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL @ 0.0		NORTH	EAST	TOTAL @ 0.0	



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D	40.0	0.00	68.8	0.0	0.06	0.32	0.19	0.03
D	33.3	0.00	68.8	0.0	0.06	0.32	0.19	0.03
D	33.3	0.00	69.1	0.0	0.07	0.38	0.18	0.04
D	20.0	0.00	69.1	0.0	0.07	0.38	0.18	0.04
D	20.0	0.00	68.2	0.0	0.06	0.33	0.20	0.03
D	13.3	0.00	68.2	0.0	0.06	0.33	0.20	0.03
D	13.3	0.00	68.5	0.0	0.07	0.40	0.19	0.03
D	0.0	0.00	68.5	0.0	0.07	0.40	0.19	0.03

ANTENNA LOADING  
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.....ANTENNA.....			ATTACHMENT		.....ANTENNA FORCES.....			
TYPE	ELEV ft	AZI	RAD ft	AZI	AXIAL kip	SHEAR kip	GRAVITY kip	TORSION ft-kip
STD+R	275.0	0.0	4.4	0.0	0.45	0.00	0.34	0.00

SUPPRESS PRINTING  
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LOADS INPUT	...FOR THIS LOADING..			.....MAXIMUMS.....				
	DISPL	MEMBER FORCES	FOUNDN LOADS	ALL	DISPL	MEMBER FORCES	FOUNDN LOADS	
	no	yes	yes	yes	no	no	no	no

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MAXIMUM MAST DISPLACEMENTS:

=====

ELEV ft	-----DEFLECTIONS (ft)-----			--TILTS (DEG)---		TWIST DEG
	NORTH	EAST	DOWN	NORTH	EAST	
290.0	1.329 G	-1.197 D	0.015 G	0.613 G	0.554 J	-0.059 J
285.0	1.275 G	-1.149 D	0.015 G	0.613 G	0.554 J	-0.059 J
280.0	1.221 G	-1.100 D	0.015 G	0.609 G	0.551 J	-0.059 J
275.0	1.168 G	-1.051 D	0.014 G	0.603 G	0.545 J	-0.059 J
270.0	1.115 G	-1.004 D	0.014 G	0.591 G	0.534 J	-0.054 J
265.0	1.063 G	-0.957 D	0.013 G	0.573 G	0.517 J	-0.050 J
260.0	1.013 G	-0.912 D	0.013 G	0.548 G	0.495 J	-0.045 J
255.0	0.966 G	-0.869 D	0.013 G	0.530 G	0.479 J	-0.041 J
250.0	0.919 G	-0.827 D	0.012 G	0.509 G	0.460 J	-0.038 J
245.0	0.875 G	-0.787 D	0.012 G	0.487 G	0.440 J	-0.035 J
240.0	0.832 G	-0.748 D	0.011 G	0.463 G	0.418 J	-0.032 J
235.0	0.792 G	-0.712 D	0.011 G	0.448 G	0.405 J	-0.030 J
230.0	0.752 G	-0.676 D	0.011 G	0.432 G	0.390 J	-0.028 J
225.0	0.715 G	-0.642 D	0.011 G	0.415 G	0.375 J	0.027 L
220.0	0.678 G	-0.609 D	0.010 G	0.398 G	0.359 J	0.026 L
213.3	0.632 G	-0.568 D	0.010 G	0.380 G	0.343 J	0.024 L
206.7	0.588 G	-0.527 D	0.010 G	0.362 G	-0.327 D	0.023 L
200.0	0.546 G	-0.489 D	0.009 G	0.344 G	-0.310 D	0.022 L
193.3	0.506 G	-0.453 D	0.009 G	0.326 G	-0.294 D	0.021 L
186.7	0.468 G	-0.419 D	0.009 G	0.308 G	-0.277 D	0.020 L
180.0	0.432 G	-0.387 D	0.008 G	0.289 G	-0.260 D	0.018 L
173.3	0.399 G	-0.357 D	0.008 G	0.272 G	-0.245 D	0.017 L
166.7	0.367 G	-0.329 D	0.008 G	0.255 G	-0.229 D	0.016 L
160.0	0.337 G	-0.302 D	0.007 G	0.238 G	-0.214 D	0.015 L
150.0	0.296 G	-0.265 D	0.007 G	0.221 G	-0.199 D	0.014 L
140.0	0.258 G	-0.230 D	0.007 G	0.205 G	-0.184 D	0.013 L
130.0	0.222 G	-0.199 D	0.006 G	0.188 G	-0.169 D	0.012 L
120.0	0.190 G	-0.169 D	0.006 G	0.172 G	-0.154 D	0.011 L
110.0	0.160 G	-0.143 D	0.005 G	0.156 G	-0.140 D	0.010 L
100.0	0.133 G	-0.118 D	0.005 G	0.140 G	-0.125 D	0.009 L
90.0	0.108 G	0.097 J	0.005 G	0.124 G	-0.111 D	0.008 L
80.0	0.087 G	0.077 J	0.004 G	0.108 G	-0.097 D	0.007 L
70.0	0.067 G	0.060 J	0.004 G	0.095 G	-0.085 D	0.006 L
60.0	0.051 G	0.045 J	0.003 G	0.081 G	-0.072 D	0.005 L
50.0	0.034 G	-0.030 D	0.003 G	0.067 G	-0.060 D	0.004 L
40.0	0.020 G	-0.018 D	0.002 L	0.053 G	-0.048 D	0.003 L
33.3	0.015 G	-0.013 D	0.002 B	0.045 G	-0.040 D	0.002 L
20.0	0.005 G	-0.005 D	0.001 B	0.027 G	-0.024 D	0.001 L
13.3	0.002 G	-0.002 D	0.001 B	0.018 G	-0.016 D	0.001 L
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

MAXIMUM ANTENNA AND REFLECTOR ROTATIONS:

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ELEV      AZI  TYPE      . . . . . BEAM DEFLECTIONS (deg) . . . . .
ft        deg   *          PITCH      YAW        ROLL        TOTAL
275.0     0.0  STD+R     -0.545 J   0.059 J   -0.603 G   0.548 J
    
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MAXIMUM TENSION IN MAST MEMBERS (kip)

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=====
ELEV      LEGS      DIAG      HORIZ      BRACE
ft
290.0     -----
           0.00 A     0.34 G     0.10 A     0.00 A
285.0     -----
           0.00 A     1.07 A     0.04 K     0.00 A
280.0     -----
           2.98 A     1.28 H     0.57 E     0.00 A
275.0     -----
           5.90 A     1.67 H     0.06 A     0.00 A
270.0     -----
           9.41 A     1.81 B     0.01 J     0.00 A
265.0     -----
          13.54 A     2.62 H     0.07 A     0.00 A
260.0     -----
          18.44 A     1.81 A     0.49 E     0.00 A
255.0     -----
          22.40 A     2.43 H     0.06 A     0.00 A
250.0     -----
          27.18 A     2.19 B     0.05 A     0.00 A
245.0     -----
          31.18 A     2.77 H     0.03 A     0.00 A
240.0     -----
          36.61 A     2.63 B     0.06 A     0.00 A
235.0     -----
          41.03 A     2.51 H     0.02 A     0.00 A
230.0     -----
          45.49 A     2.43 B     0.06 A     0.00 A
225.0     -----
          49.31 A     2.36 H     0.02 A     0.00 A
220.0     -----
          53.71 A     2.51 B     0.05 A     0.00 A
213.3     -----
          58.14 A     2.43 H     0.03 A     0.00 A
206.7     -----
          62.48 A     2.39 B     0.04 A     0.00 A
200.0     -----
          66.38 A     2.36 H     0.03 A     0.00 A
193.3     -----
          70.23 A     2.35 L     0.03 A     0.00 A
186.7     -----
          73.78 A     2.37 F     0.03 A     0.00 A
180.0     -----
          77.29 A     2.40 L     0.03 A     0.00 A
173.3     -----
          80.61 A     2.43 F     0.03 A     0.00 A
166.7     -----
          83.91 A     2.48 L     0.03 A     0.00 A
160.0     -----
          87.72 A     2.75 F     0.03 A     0.00 A
150.0     -----
          92.21 A     2.80 L     0.03 A     0.00 A
140.0     -----
          96.46 A     2.85 F     0.03 A     0.00 A
130.0     -----
         100.65 A     2.92 L     0.03 A     0.00 A
120.0     -----
         104.68 A     3.00 F     0.03 A     0.00 A
110.0     -----
         108.69 A     3.08 L     0.03 A     0.00 A
100.0     -----
         112.56 A     3.17 F     0.02 A     0.00 A
 90.0     -----
         116.40 A     3.27 L     0.02 A     0.00 A
 80.0     -----
         120.12 A     3.38 F     0.02 A     0.00 A
 70.0     -----
         123.81 A     3.48 F     0.02 A     0.00 A
    
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ELEV	MEMBER	MEMBER	MEMBER	MEMBER	MEMBER
60.0	127.43 A	3.60 F	0.02 K	0.00 A	18-3713-TJH
50.0	131.05 A	3.70 F	0.02 G	0.00 A	
40.0	135.53 A	3.89 F	0.09 A	0.00 A	
33.3	134.32 A	5.07 F	0.24 A	0.00 I	
20.0	142.28 A	4.06 F	0.05 A	0.00 I	
13.3	141.03 A	5.16 F	0.21 A	0.00 L	
0.0			0.00 A	0.00 A	

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
290.0	-0.30 A	-0.15 A	-0.23 G	0.00 A
285.0	-2.47 G	-1.30 G	-0.01 I	0.00 A
280.0	-5.76 G	-1.51 B	-0.26 K	0.00 A
275.0	-9.82 G	-1.73 B	-0.02 B	0.00 A
270.0	-13.41 G	-1.75 H	-0.02 D	0.00 A
265.0	-19.19 G	-2.75 B	-0.02 G	0.00 A
260.0	-24.24 G	-2.03 G	-0.44 K	0.00 A
255.0	-30.59 G	-2.37 B	-0.02 G	0.00 A
250.0	-35.55 G	-2.28 H	-0.04 G	0.00 A
245.0	-41.69 G	-2.80 B	-0.01 G	0.00 A
240.0	-47.67 G	-2.64 H	-0.04 G	0.00 A
235.0	-52.64 G	-2.54 B	-0.01 G	0.00 A
230.0	-57.70 G	-2.45 H	-0.04 G	0.00 A
225.0	-62.11 G	-2.39 B	-0.01 G	0.00 A
220.0	-67.24 G	-2.53 H	-0.04 G	0.00 A
213.3	-72.56 G	-2.46 B	-0.02 G	0.00 A
206.7	-77.79 G	-2.41 H	-0.03 G	0.00 A
200.0	-82.62 G	-2.39 G	-0.02 G	0.00 A
193.3	-87.43 G	-2.38 F	-0.02 G	0.00 A
186.7	-91.95 G	-2.41 G	-0.02 G	0.00 A
180.0	-96.47 G	-2.42 F	-0.02 G	0.00 A
173.3	-100.82 G	-2.48 G	-0.02 G	0.00 A
166.7	-105.17 G	-2.49 F	-0.02 G	0.00 A
160.0	-110.44 G	-2.84 G	-0.02 G	0.00 A
150.0	-116.87 G	-2.83 F	-0.02 G	0.00 A
140.0	-123.07 G	-2.94 G	-0.02 G	0.00 A
130.0	-129.29 G	-2.96 G	-0.02 G	0.00 A
120.0			-0.02 G	0.00 A

18-3713-TJH

110.0	-135.36 G	-3.09 G	-0.02 G	0.00 A
100.0	-141.45 G	-3.12 G	-0.01 G	0.00 A
90.0	-147.46 G	-3.26 G	-0.02 G	0.00 A
80.0	-153.52 G	-3.32 G	-0.01 G	0.00 A
70.0	-159.55 G	-3.46 G	-0.01 G	0.00 A
60.0	-165.66 G	-3.54 G	-0.02 E	0.00 A
50.0	-171.74 G	-3.65 G	-0.03 A	0.00 A
40.0	-177.83 G	-3.73 G	-0.05 G	0.00 A
33.3	-184.45 G	-4.03 G	-0.34 G	0.00 A
20.0	-185.65 G	-5.14 G	-0.03 G	0.00 A
13.3	-196.72 G	-4.16 G	-0.31 G	0.00 F
0.0	-197.98 G	-5.21 G	0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

LOAD---COMPONENTS---				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
18.15 G	15.51 K	205.04 G	-145.90 A	18.15 G

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

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL @ 0.0		NORTH	EAST	TOTAL @ 0.0	
28.1 G	-24.8 D	28.1 G	79.8 B	4790.8 G	-4272.5 D	4790.8 G	14.2 L

**MAT FOUNDATION DESIGN BY SABRE TOWERS & POLES**

Tower Description 290' S3TL Series HD1  
 Customer HORVATH COMMUNICATIONS INC  
 Project Number 18-3713-TJH  
 Date 10/30/2017  
 Engineer DJH

<b>Overall Loads:</b>		Anchor Bolt Count (per leg)	6
Factored Moment (ft-kips)	16598.59		
Factored Axial (kips)	282.74		
Factored Shear (kips)	97.73		
<b>Individual Leg Loads:</b>		Tower eccentric from mat (ft)=	2.5
Factored Uplift (kips)	573.00		
Factored Download (kips)	650.00		
Factored Shear (kips)	60.00		
Width of Tower (ft)	31	Allowable Bearing Pressure (ksf)	15.00
Ultimate Bearing Pressure	15.00	Safety Factor	1.00
Bearing $\Phi_s$	0.75		
Bearing Design Strength (ksf)	11.25	Max. Factored Net Bearing Pressure (ksf)	3.46
Water Table Below Grade (ft)	999		
Width of Mat (ft)	38.5	Minimum Mat Width (ft)	38.50
Thickness of Mat (ft)	1.5		
Depth to Bottom of Slab (ft)	6.5		
Bolt Circle Diameter (in)	18		
Top of Concrete to Top of Bottom Threads (in)	65.5	Minimum Pier Diameter (ft)	2.83
Diameter of Pier (ft)	5.5	Equivalent Square b (ft)	4.87
Ht. of Pier Above Ground (ft)	0.5		
Ht. of Pier Below Ground (ft)	5		
Quantity of Bars in Mat	68		
Bar Diameter in Mat (in)	1.41		
Area of Bars in Mat (in <sup>2</sup> )	106.18		
Spacing of Bars in Mat (in)	6.78	Recommended Spacing (in)	6 to 12
Quantity of Bars Pier	42		
Bar Diameter in Pier (in)	0.75		
Tie Bar Diameter in Pier (in)	0.5	Minimum Pier A <sub>s</sub> (in <sup>2</sup> )	17.11
Spacing of Ties (in)	12	Recommended Spacing (in)	5 to 12
Area of Bars in Pier (in <sup>2</sup> )	18.56		
Spacing of Bars in Pier (in)	4.35		
f'c (ksi)	4.5		
fy (ksi)	60		
Unit Wt. of Soil (kcf)	0.1215		
Unit Wt. of Concrete (kcf)	0.15		
Volume of Concrete (yd <sup>3</sup> )	96.87		

**MAT FOUNDATION DESIGN BY SABRE TOWERS & POLES (CONTINUED)**

**Two-Way Shear:**

Average d (in)	13.59		
$\phi v_c$ (ksi)	0.228	$v_u$ (ksi)	0.221
$\phi v_c = \phi(2 + 4/\beta_c)f'_c{}^{1/2}$	0.342		
$\phi v_c = \phi(\alpha_s d/b_o + 2)f'_c{}^{1/2}$	0.258		
$\phi v_c = \phi 4f'_c{}^{1/2}$	0.228		
Shear perimeter, $b_o$ (in)	215.02		
$\beta_c$	1		

**Stability:**

Overturning Design Strength (ft-k)	22581.1	Factored Overturning Moment (ft-k)	17282.7
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**One-Way Shear:**

$\phi V_c$ (kips)	716.0	$V_u$ (kips)	673.8
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**Pier Design:**

Design Tensile Strength (kips)	1002.0	$T_u$ (kips)	573.0
--------------------------------	--------	--------------	-------

$\phi V_n$ (kips)	264.3	$V_u$ (kips)	60.0
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$\phi V_c = \phi 2(1 + N_u/(500A_g))f'_c{}^{1/2}b_w d$	264.3		
--	-------	--	--

$V_s$ (kips)	0.0	*** $V_s$ max = $4 f'_c{}^{1/2} b_w d$ (kips)	935.1
--------------	-----	---	-------

Maximum Spacing (in) 7.10 (Only if Shear Ties are Required)

Actual Hook Development (in)	12.18	Req'd Hook Development $l_{dh}$ (in)	8.66
------------------------------	-------	--------------------------------------	------

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

**Anchor Bolt Pull-Out:**

$\phi P_c = \phi \lambda (2/3) f'_c{}^{1/2} (2.8A_{SLOPE} + 4A_{FLAT})$	515.4	$P_u$ (kips)	573.0
---	-------	--------------	-------

Pier Rebar Development Length (in)	42.38	Required Length of Development (in)	15.34
------------------------------------	-------	-------------------------------------	-------

**Flexure in Slab:**

$\phi M_n$ (ft-kips)	5632.1	$M_u$ (ft-kips)	5577.1
----------------------	--------	-----------------	--------

a (in)	3.61
--------	------

Steel Ratio	0.01691
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$\beta_1$	0.825
-----------	-------

Maximum Steel Ratio ( $\rho_t$ )	0.0197
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Minimum Steel Ratio	0.0018
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Rebar Development in Pad (in)	119.86	Required Development in Pad (in)	18.49
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Condition	1 is OK, 0 Fails
Minimum Mat Width	1
Maximum Soil Bearing Pressure	1
Pier Area of Steel	1
Pier Shear	1
Two-Way Shear	1
Overturning	1
Anchor Bolt Pull-Out	1
Flexure	1
Steel Ratio	1
Length of Development in Pad	1
Interaction Diagram Visual Check	1
One-Way Shear	1
Hook Development	1
Minimum Mat Depth	1

# Exhibit E



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

Aeronautical Study No.  
 2017-ASO-16670-OE

Issued Date: 01/05/2018

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



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 HV1273 Hico Road  
 Location: Murray, KY  
 Latitude: 36-42-56.53N NAD 83  
 Longitude: 88-10-20.10W  
 Heights: 510 feet site elevation (SE)  
 300 feet above ground level (AGL)  
 810 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 1, 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 07/05/2019 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 does not constitute authority to transmit on the frequency(ies) identified in this study. The proponent is required to obtain a formal frequency transmit license from the Federal Communications Commission (FCC) or National Telecommunications and Information Administration (NTIA), prior to on-air operations of these frequency(ies).

This determination of No Hazard is granted provided the following conditional statement is included in the proponent's construction permit or license to radiate:

Upon receipt of notification from the Federal Communications Commission that harmful interference is being caused by the licensee's (permittee's) transmitter, the licensee (permittee) shall either immediately reduce the power to the point of no interference, cease operation, or take such immediate corrective action as is necessary to eliminate the harmful interference. This condition expires after 1 year of interference-free operation.

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.

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 (202) 267-0105, or [j.garver@faa.gov](mailto:j.garver@faa.gov). On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-ASO-16670-OE.

**Signature Control No: 340654536-352423132**

( DNE )

Jay Garver  
Specialist

Attachment(s)  
Frequency Data  
Map(s)

cc: FCC

**Frequency Data for ASN 2017-ASO-16670-OE**

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	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

Verified Map for ASN 2017-ASO-16670-OE



# Exhibit F



**KENTUCKY AIRPORT ZONING COMMISSION**

MATTHEW BEVIN  
Governor

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

October 25, 2017

APPROVAL OF APPLICATION

APPLICANT:

Horvath Towers V LLC  
Horvath Towers V LLC  
312 W Colfax Ave  
South Bend, IN 46601

SUBJECT: AS-018-CEY-2017-083

STRUCTURE: Antenna Tower  
LOCATION: Murray, KY  
COORDINATES: 36° 42' 56.53" N / 88° 10' 20.10" W  
HEIGHT: 300' AGL/810' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 300' AGL/ 810' AMSL Antenna Tower near Murray, KY 36° 42' 56.53" N / 88° 10' 20.10" W.

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

A copy of the approved application is enclosed for your files.

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

  
John Houlihan  
Administrator



An Equal Opportunity Employer M/F/D



**KENTUCKY AIRPORT ZONING COMMISSION**

**MATTHEW BEVIN**  
Governor

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

**CONSTRUCTION/ALTERATION STATUS REPORT**

October 25, 2017

AERONAUTICAL STUDY NUMBER: AS-018-CEY-2017-083

Horvath Towers V LLC  
Horvath Towers V LLC  
312 W Colfax Ave  
South Bend, IN 46601

This concerns the permit which was issued to you by the Kentucky Airport Zoning Commission on October 25, 2017. This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within the said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit. When appropriate, please indicate the status of the project in the place below and return this letter to John Houlihan, Administrator, Kentucky Airport Zoning Commission, 421 Buttermilk Pike, Covington, KY, 41017. 859-341-2700.

STRUCTURE: Antenna Tower  
LOCATION: Murray, KY  
COORDINATES: 36° 42' 56.53" N / 88° 10' 20.10" W  
HEIGHT: 300' AGL /810' AMSL

**CONSTRUCTION/ALTERATION STATUS**

1. The project ( ) is abandoned. ( ) is not abandoned.
2. Construction status is as follows:
  - Structure reached its greatest height of \_\_\_\_\_ ft. AGL  
\_\_\_\_\_ ft. AMSL on \_\_\_\_\_ (date).
  - Date construction was completed. \_\_\_\_\_
  - Type of obstruction marking/painting. \_\_\_\_\_
  - Type of obstruction lighting. \_\_\_\_\_
  - As built coordinates. \_\_\_\_\_
  - Miscellaneous Information. \_\_\_\_\_
  - DATE \_\_\_\_\_
  - SIGNATURE/TITLE \_\_\_\_\_



AS-018-CEY-2017-083



KENTUCKY TRANSPORTATION CABINET  
KENTUCKY AIRPORT ZONING COMMISSION

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

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Horvath Towers V, LLC	PHONE 574.237.0464	FAX 574- 217.4357	KY AERONAUTICAL STUDY # 2017-ASD-16670-DE
ADDRESS (street) 432 Hico Rd	CITY Murray	STATE KY	ZIP 42071
APPLICANT'S REPRESENTATIVE (name) Jordan Freeze	PHONE 574. 237.0464	FAX 574. 217.4357	jfreeze@horvathcommunications.com
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	DURATION <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days )		WORK SCHEDULE Start 3/2018 End 5/2018
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 36° 42' 56.53 "	LONGITUDE 88° 10' 20.10 "	DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City MURRAY County Calloway	NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT Kyle - Oakley Field Airport		
SITE ELEVATION (AMSL, feet) 510	TOTAL STRUCTURE HEIGHT (AGL, feet) 300	CURRENT (FAA aeronautical study #) 2017-ASD-16670-DE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 810	PREVIOUS (FAA aeronautical study #) N/A		
DISTANCE (from nearest Kentucky public use or Military airport to structure) 11.76 miles	PREVIOUS (KY aeronautical study #) N/A		
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 290' with 10' lightning rod (300' overall height) self-support lattice tower			
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? 8/11/2017			
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 Jordan Freeze	TITLE Utility & Construction Coordinator	SIGNATURE 	DATE 8/22/2017
COMMISSION ACTION <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved			
SIGNATURE 		DATE 10-25-17	

# Exhibit G

**From:** Devon Pavlek [mailto:dpavlek@ebiconsulting.com]  
**Sent:** Tuesday, October 17, 2017 12:56 PM  
**To:** Shauna Adair <sadair@horvathcommunications.com>  
**Subject:** RE: HV1273 - Hico Road Geotech  
Geotech - High PSF - 9000 - shallow foundation the best design

Resistivity - Good for typical VZW installation

Thanks,

**Ms. Devon Pavlek**  
Senior Project Manager  
P: 773.746.6766  
dpavlek@ebiconsulting.com



**GPD# 2017715.10**  
October 16, 2017

## GEOTECHNICAL REPORT

**Site Number:** HV1273  
**Site Name:** Murray KY

**Site Data:** Hico Road  
Murray (Calloway County), Kentucky 42071  
Latitude 36° 42' 56.53" N, Longitude 88° 10' 20.10" W  
Proposed 290-ft Self-Support Tower

*GPD Group* is pleased to submit this **Geotechnical Report** for the aforementioned tower. The purpose of the following report is to summarize the soil/rock conditions encountered during the subsurface exploration and provide geotechnical engineering parameters for the design of the proposed tower foundation system. Recommendations for site preparation, construction procedures and quality control were beyond the scope of this study, but can be provided upon request.

We at *GPD Group* appreciate the opportunity to provide continuing professional services to you. Please feel free to contact us with any questions or if you need additional assistance.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read "J. Kirkendoll", is positioned to the left of the professional engineer's seal.

Jordan S. Kirkendoll, P.E.  
GPD Group, Inc.



Report Prepared By: Tyler Gaebler

**Attachments:** *Site Location Map*  
*Satellite Photograph*  
*Topographic Map*  
*Boring Location Plan*  
*Boring Log*  
*Unified Soil Classification System*  
*General Notes*

## GEOTECHNICAL EXPLORATION

Drilling and soil sampling was performed by Hoosier Drilling Services, Inc. using a truck-mounted CME-55 drill rig with hollow-stem augers and an automatic SPT hammer. One (1) sample boring was drilled near the proposed tower foundation to a depth of about forty (40) feet and. Representative samples were obtained by the split-barrel sampling procedure in general accordance with appropriate ASTM standards. In the split-barrel sampling procedure, the number of blows required to advance a standard 2-inch O.D. split-barrel sampler the last 12 inches of the typical total 18-inch penetration by means of a 140-pound hammer with a free fall of 30 inches, is the standard penetration resistance value (N). Sampling depths and penetration distance, plus the standard penetration resistance values, are shown on the attached boring log. The samples were sealed and mailed to our laboratory for soil classification in general accordance with appropriate ASTM standards.

A CME automatic SPT hammer was used to advance the split-barrel sampler in the borings performed for this site. A significantly greater efficiency is achieved with the automatic hammer compared to the conventional safety hammer operated with a cathead and rope. This higher efficiency has an appreciable effect on the standard penetration resistance blow count (N) values. The effect of the automatic hammer's efficiency has been considered in the interpretation and analysis of the subsurface information for this report.

The subsurface conditions encountered at the boring location are indicated on the attached boring log. The stratification boundaries on the boring log represent the approximate location of changes in soil/rock types; in-situ, the transition between materials may be gradual. The boring log includes visual classifications of the materials encountered during drilling as well as the driller's interpretation of the subsurface conditions between samples.

## SOIL CLASSIFICATION

The soil samples were classified in general accordance with appropriate ASTM standards based on visual observation, texture, testing and plasticity. Descriptions of the soils indicated on the boring log are in accordance with the enclosed General Notes and the Unified Soil Classification System. A brief description of this classification system is attached to this report.

## LABORATORY TESTING

The samples were classified in the laboratory based on visual observation, texture and plasticity. The descriptions of the soils indicated on the boring log are in accordance with the enclosed General Notes and the Unified Soil Classification System. Estimated group symbols according to the Unified Soil Classification System are given on the boring log. A brief description of this classification system is attached to this report.

The laboratory testing program consisted of performing the following tests:

- ❖ Natural water content tests (ASTM D-2216)
- ❖ Soil Resistivity (ASTM G-187-12A)
- ❖ Soil pH Test (ASTM D-4972)

Information from these tests was used in conjunction with field penetration test data to evaluate soil strength in-situ, volume change potential, and soil classification. Results of these tests are attached and provided on the boring log.

## SOIL RESISTIVITY

Ground resistivity was performed as a part of the geotechnical investigation at this site. A representative soil sample was also obtained within the upper 10-ft of soil for laboratory pH and resistivity testing. Laboratory resistivity measurements were obtained using a MILLER-400A soil resistivity meter implementing the 2-electrode method in conjunction with an electrolyte box. Based on the laboratory test results, the soil is rated "**Corrosive**" with resistivity measurements of about **3,750 ohm-cm** and has a pH of about **4.9** at about 25°C.

### Soil Resistivity Classification System

Resistivity (Ohm-cm)	Soil Type	Corrosion Rating
0 to 1,000	Moist Clay	Extremely Corrosive
1,000 to 3,000	Moist Clay	Highly Corrosive
3,000 to 5,000	Clay	Corrosive
5,000 to 10,000	Silty Clay/Clayey Silt	Moderately Corrosive
10,000 to 20,000	Sandy Silt	Mildly Corrosive
>20,000	Sand/Gravel/Rock	Non-Corrosive

## GROUNDWATER

Groundwater was not encountered during drilling operations as noted on the attached boring log. However, it is important to note that the boring caved in at a depth of 32-ft below grade subsequent to removing tools. It should be noted that fluctuations in the groundwater level can occur and perched water can develop over low permeability soil or rock strata following periods of heavy or prolonged precipitation. Long term monitoring in cased holes or piezometers would be necessary to accurately evaluate the potential range of groundwater conditions on the site.

## FILL MATERIAL

All fill material should consist of approved materials, free of organics and debris. Structural fill should be a low plasticity cohesive soil with a liquid limit less than 45% and a plasticity index less than 25%, or a specified granular material. The on-site soils are considered suitable for reuse as structural fill at this project location.

All fill materials should be placed in loose lifts not exceeding 8 inches in thickness and thoroughly compacted. All fill should be compacted to at least 95% of the material's standard Proctor maximum dry density (ASTM D698). The soil's water content at the time of compaction should be at  $\pm 3\%$  of the soil's optimum moisture value as determined by the standard Proctor test.

## GEOTECHNICAL RECOMMENDATIONS

Based on the results of this study, it is our opinion that a shallow foundation would be most appropriate for support of a self-support tower at this site. The following net design parameters may be used to design the proposed foundation system. Factors of safety of 2 and 3 should be applied to the ultimate bearing pressure values provided below. The cohesion, internal angle of friction and unit weight parameters along with the vertical modulus of subgrade reaction (pci) and sliding friction coefficients given in the following table are based on the results of the sample boring, lab testing, published values and our past experience with similar soil types. These values should, therefore, be considered approximate.

### Self-Support Tower – Shallow Foundation – Ultimate Design Parameters

Depth (feet)	USCS	Unit Weight (pcf)	Ultimate Bearing Pressure (psf)	Sliding Friction Coefficient @ Base	Vertical Modulus of Subgrade Reaction (pci)	Internal Angle of Friction (Degrees)	Cohesion (psf)
0 – 1.5*	CL	120	Ignore	-	-	-	-
1.5 – 3.5	CL	120	9,000	0.35	150	0	1,500
3.5 – 6	CL	125	12,000	0.35	200	0	2,000
6 – 8	GC	130	15,000	0.40	250	38	0
8 – 15	SP, GP	130	15,000	0.45	250	40	0

\*The upper 1.5 feet should be ignored due to potential frost effects and construction disturbance considerations.

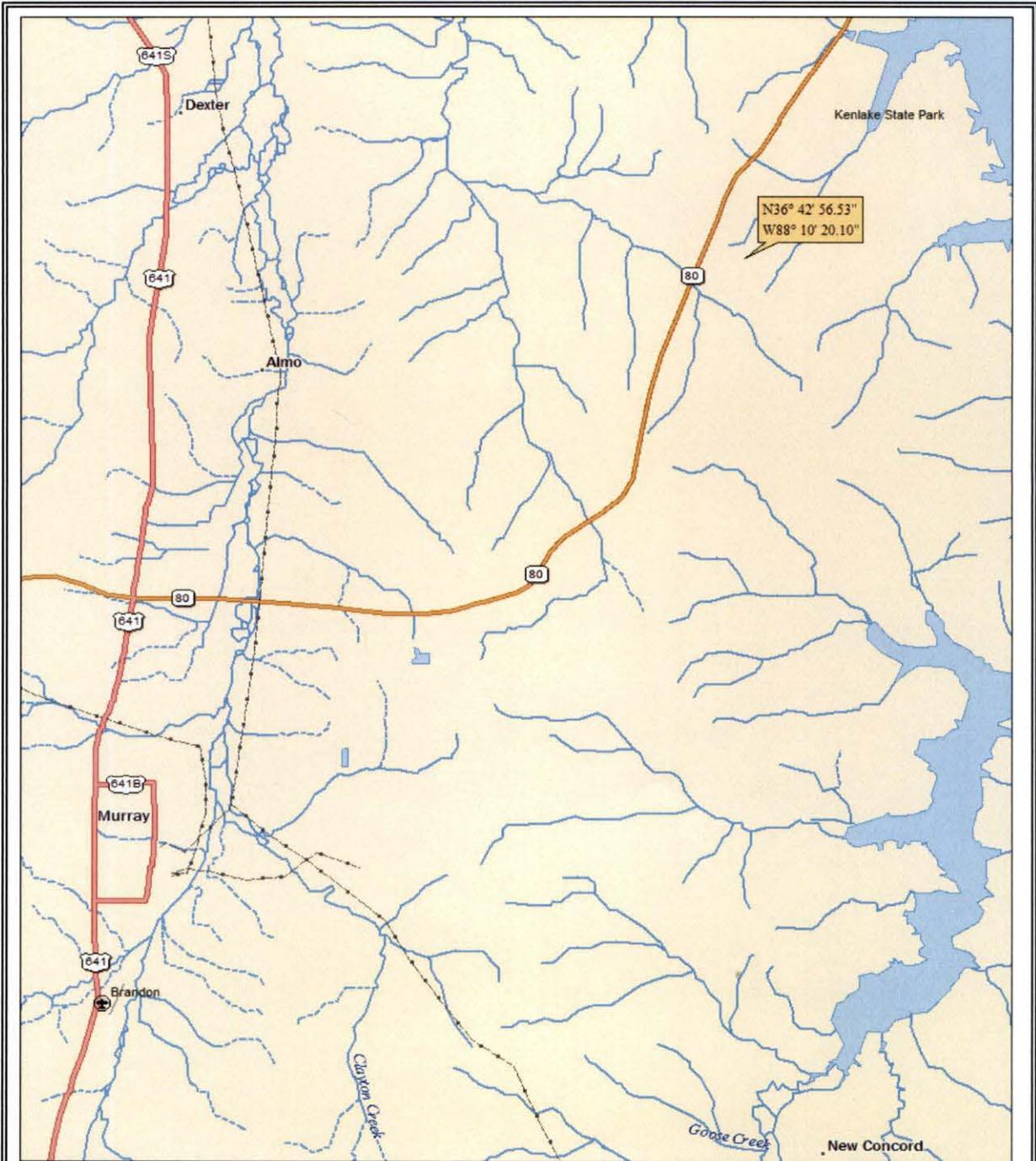
*The above parameters are provided for the design of a shallow foundation. In the event that a different foundation or tower type is chosen, these parameters are not considered valid and GPD Group should be notified immediately to provide appropriate design parameters.*

## QUALIFICATIONS

The analysis and recommendations presented in this report are based upon the data obtained from the boring performed at this site and from other information discussed in this report. This report does not reflect variations that may occur across the site or due to the modifying effects of weather.

This report has been prepared for the exclusive use of **EBI Consulting** for specific application to the project discussed herein and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either expressed or implied, are intended or made. In the event that changes in the nature or design as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless **GPD Group** reviews the changes and either verifies or modifies the conclusions of this report in writing.

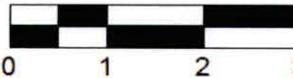
The scope of services for this project does not include either specifically or by implication, any environmental assessment of the site or identification of contaminated or hazardous materials or conditions. If the owner is concerned about the potential for such contamination, other studies should be undertaken.



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 www.delorme.com

  
 MN (2.9° W)

 mi  
 0 1 2 3  
 Data Zoom 10-6



**SITE LOCATION MAP**

**Site Name:** Murray KY  
**Site Number:** HV1273  
**GPD Job Number:** 2017715.10  
**Date:** October 2017



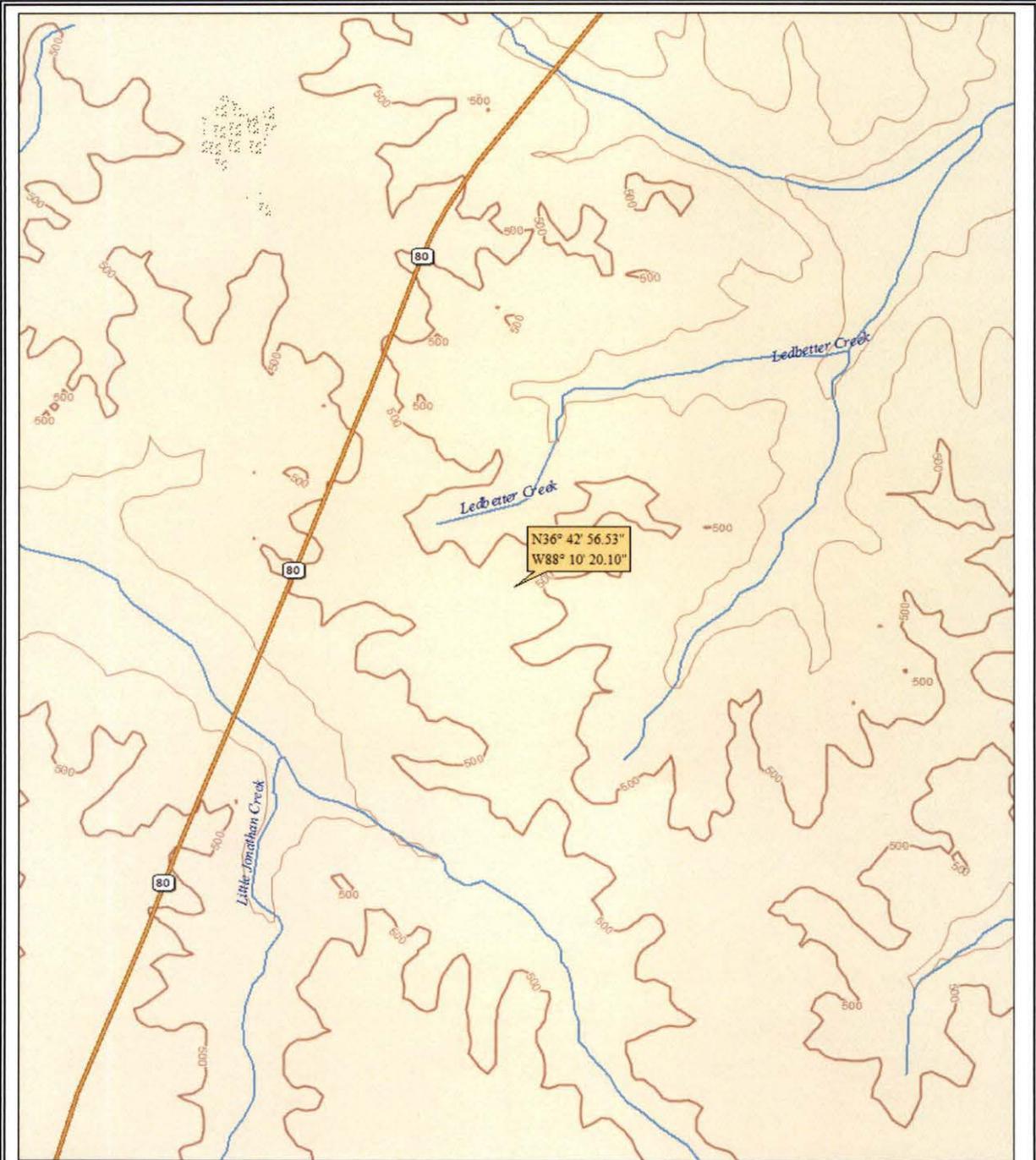
## SATELLITE PHOTOGRAPH

**Site Name:** Murray KY

**Site Number:** HV1273

**GPD Job Number:** 2017715.10

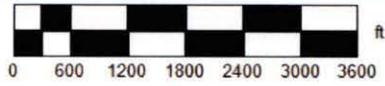
**Date:** October 2017



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MN (2.9° W)



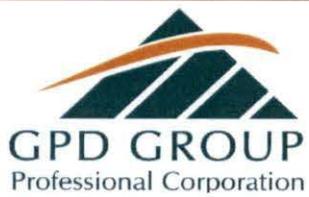
Data Zoom 13-1



## TOPOGRAPHIC MAP

**Site Name:** Murray KY  
**Site Number:** HV1273  
**GPD Job Number:** 2017715.10  
**Date:** October 2017

Boring Location: N 36.71570, W -88.1722



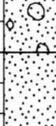
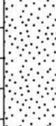
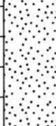
### **BORING LOCATION PLAN**

**Site Name:** Murray KY  
**Site Number:** HV1273  
**GPD Job Number:** 2017715.10  
**Date:** October 2017

# Boring Number: B-1

**CLIENT** EBI Consulting                      **PROJECT NAME** Murray KY  
**PROJECT NUMBER** 2017715.10                      **PROJECT LOCATION** Murray, Kentucky  
**DATE STARTED** September 21, 2017 **COMPLETED** September 21, 2017                      **GROUND ELEVATION** \_\_\_\_\_ **HOLE SIZE** \_\_\_\_\_  
**DRILLING CONTRACTOR** Holocene Drilling, Inc.                      **GROUND WATER LEVELS:**  
**DRILLING METHOD** Hollow Stem Auger - 3 1/4" ID                      **AT TIME OF DRILLING** --- DRY  
**LOGGED BY** Tyler Gaebler                      **CHECKED BY** Dustin Vincent                      **AT END OF DRILLING** --- DRY, cave-in depth at 32 feet  
**NOTES** CME-55 Drill Rig with Automatic SPT Hammer

CENTER TERMINATION NOTE - GINT STD US LAB.GDT - 10/11/17 16:31 - F:\GEO\TECH\JOBS\GINT PROJECTS (STARTED AFTER 03/24/14)\GINT PROJECTS 2015\MURRAY, KY.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
								LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Topsoil, 3 inches									
0 - 3.5		Stiff brown LEAN CLAY (CL) with trace sand and silt	SS 1	100	3-4-7 (11)	3.5	23				
3.5 - 5		Very stiff below 3.5 feet									
5 - 8		Very Dense reddish brown CLAYEY GRAVEL (GC) with some sand and calcareous nodes	SS 2	100	6-9-9 (18)	3.5	20				
8 - 10		Very Dense reddish brown GRAVELLY SAND (SP) with clay and some calcareous nodes	SS 3	100	9-12-50/4"		14				
10 - 15		Very Dense reddish brown SANDY GRAVEL (GP) with trace clay	SS 4	100	50-50/0"		9				
15 - 20		Very Dense reddish brown GRAVELLY SAND (SP) with clay	SS 5	100	32-50/3"		6				
20 - 25		Very Dense reddish brown SAND (SP)	SS 6	100	30-50/3"		9				
25 - 30		Very Dense tan fine SAND (SP)	SS 7	100	41-50/4"		3				
30 - 32		White and tan with trace silt and clay below 27 feet									
32 - 35		Light tan, white and maroon with some clay below 32 feet	SS 8	100	19-32-44 (76)		5				
35 - 37		Dense below 37 feet									
37 - 40		Dense below 37 feet	SS 9	100	10-36-50/4"		4				
40		Dense below 37 feet	SS 10	100	14-17-22 (39)		5				

Boring terminated at 40.0 feet

## Unified Soil Classification System

Major Divisions			Letter	Symbol	Description
<b>Coarse-grained Soils</b> More than ½ retained on the No. 200 Sieve	<b>Gravels</b> More than ½ coarse fraction retained on the No. 4 sieve	Clean Gravels	GW		Well-graded gravels and gravel-sand mixtures, little or no fines.
		Gravels With Fines	GP		Poorly-graded gravels and gravel-sand mixtures, little or no fines.
		Gravels With Fines	GM		Silty gravels, gravel-sand-silt mixtures.
		Gravels With Fines	GC		Clayey gravels, gravel-sand-clay mixtures.
	<b>Sands</b> More than ½ passing through the No. 200 sieve	Clean Sands	SW		Well-graded sands and gravelly sands, little or no fines.
		Clean Sands	SP		Poorly-graded sands and gravelly sands, little or no fines.
		Sands With Fines	SM		Silty sands, sand-silt mixtures
		Sands With Fines	SC		Clayey sands, sandy-clay mixtures.
<b>Fine-grained Soils</b> More than ½ passing through the No. 200 Sieve	<b>Silts and Clays</b> Liquid Limit less than 50%		ML		Inorganic silts, very fine sands, rock flour, silty or clayey fine sands.
	<b>Silts and Clays</b> Liquid Limit less than 50%		CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
	<b>Silts and Clays</b> Liquid Limit less than 50%		OL		Organic clays of medium to high plasticity.
	<b>Silts and Clays</b> Liquid Limit greater than 50%		MH		Inorganic silts, micaceous or diatomaceous fines sands or silts, elastic silts.
	<b>Silts and Clays</b> Liquid Limit greater than 50%		CH		Inorganic clays of high plasticity, fat clays.
	<b>Silts and Clays</b> Liquid Limit greater than 50%		OH		Organic clays of medium to high plasticity.
<b>Highly Organic Soils</b>			PT		Peat, muck, and other highly organic soils.
<b>Consistency Classification</b>					
<b>Granular Soils</b>			<b>Cohesive Soils</b>		
Description - Blows Per Foot (Corrected)			Description - Blows Per Foot (Corrected)		
	<u>MCS</u>	<u>SPT</u>		<u>MCS</u>	<u>SPT</u>
Very loose	<5	<4	Very soft	<3	<2
Loose	5 - 15	4 - 10	Soft	3 - 5	2 - 4
Medium dense	16 - 40	11 - 30	Firm	6 - 10	5 - 8
Dense	41 - 65	31 - 50	Stiff	11 - 20	9 - 15
Very dense	>65	>50	Very Stiff	21 - 40	16 - 30
			Hard	>40	>30
MCS = Modified California Sampler			SPT = Standard Penetration Test Sampler		

## GENERAL NOTES

### SAMPLE IDENTIFICATION

The Unified Soil Classification System (USCS), AASHTO 1988 and ASTM designations D2487 and D-2488 are used to identify the encountered materials unless otherwise noted. Coarse-grained soils are defined as having more than 50% of their dry weight retained on a #200 sieve (0.075mm); they are described as: boulders, cobbles, gravel or sand. Fine-grained soils have less than 50% of their dry weight retained on a #200 sieve; they are defined as silts or clay depending on their Atterberg Limit attributes. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size.

### DRILLING AND SAMPLING SYMBOLS

SFA: Solid Flight Auger - typically 4" diameter flights, except where noted.	SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where noted.
HSA: Hollow Stem Auger - typically 3 1/4" or 4 1/4" I.D. openings, except where noted.	ST: Shelby Tube - 3" O.D., except where noted.
M.R.: Mud Rotary - Uses a rotary head with Bentonite or Polymer Slurry	BS: Bulk Sample
R.C.: Diamond Bit Core Sampler	PM: Pressuremeter
H.A.: Hand Auger	CPT-U: Cone Penetrometer Testing with Pore-Pressure Readings
P.A.: Power Auger - Handheld motorized auger	

### SOIL PROPERTY SYMBOLS

N: Standard "N" penetration: Blows per foot of a 140 pound hammer falling 30 inches on a 2-inch O.D. Split-Spoon.  
 $N_{60}$ : A "N" penetration value corrected to an equivalent 60% hammer energy transfer efficiency (ETR)  
 $Q_u$ : Unconfined compressive strength, TSF  
 $Q_p$ : Pocket penetrometer value, unconfined compressive strength, TSF  
 $w\%$ : Moisture/water content, %  
 LL: Liquid Limit, %  
 PL: Plastic Limit, %  
 PI: Plasticity Index = (LL-PL), %  
 DD: Dry unit weight, pcf  
 ▼, ▼, ▼ Apparent groundwater level at time noted

### RELATIVE DENSITY OF COARSE-GRAINED SOILS

Relative Density	N - Blows/foot
Very Loose	0 - 4
Loose	4 - 10
Medium Dense	10 - 30
Dense	30 - 50
Very Dense	50 - 80
Extremely Dense	80+

### ANGULARITY OF COARSE-GRAINED PARTICLES

Description	Criteria
Angular:	Particles have sharp edges and relatively plane sides with unpolished surfaces
Subangular:	Particles are similar to angular description, but have rounded edges
Subrounded:	Particles have nearly plane sides, but have well-rounded corners and edges
Rounded:	Particles have smoothly curved sides and no edges

### GRAIN-SIZE TERMINOLOGY

Component	Size Range
Boulders:	Over 300 mm (>12 in.)
Cobbles:	75 mm to 300 mm (3 in. to 12 in.)
Coarse-Grained Gravel:	19 mm to 75 mm (3/4 in. to 3 in.)
Fine-Grained Gravel:	4.75 mm to 19 mm (No.4 to 3/4 in.)
Coarse-Grained Sand:	2 mm to 4.75 mm (No.10 to No.4)
Medium-Grained Sand:	0.42 mm to 2 mm (No.40 to No.10)
Fine-Grained Sand:	0.075 mm to 0.42 mm (No. 200 to No.40)
Silt:	0.005 mm to 0.075 mm
Clay:	<0.005 mm

### PARTICLE SHAPE

Description	Criteria
Flat:	Particles with width/thickness ratio > 3
Elongated:	Particles with length/width ratio > 3
Flat & Elongated:	Particles meet criteria for both flat and elongated

### RELATIVE PROPORTIONS OF FINES

Descriptive Term	% Dry Weight
Trace:	< 5%
With:	5% to 12%
Modifier:	>12%

## GENERAL NOTES

(Continued)

### CONSISTENCY OF FINE-GRAINED SOILS

<u>Q<sub>u</sub> - TSF</u>	<u>N - Blows/foot</u>	<u>Consistency</u>
0 - 0.25	0 - 2	Very Soft
0.25 - 0.50	2 - 4	Soft
0.50 - 1.00	4 - 8	Firm (Medium Stiff)
1.00 - 2.00	8 - 15	Stiff
2.00 - 4.00	15 - 30	Very Stiff
4.00 - 8.00	30 - 50	Hard
8.00+	50+	Very Hard

### MOISTURE CONDITION DESCRIPTION

<u>Description</u>	<u>Criteria</u>
Dry:	Absence of moisture, dusty, dry to the touch
Moist:	Damp but no visible water
Wet:	Visible free water, usually soil is below water table

### RELATIVE PROPORTIONS OF SAND AND GRAVEL

<u>Descriptive Term</u>	<u>% Dry Weight</u>
Trace:	< 15%
With:	15% to 30%
Modifier:	>30%

### STRUCTURE DESCRIPTION

<u>Description</u>	<u>Criteria</u>	<u>Description</u>	<u>Criteria</u>
Stratified:	Alternating layers of varying material or color with layers at least ¼-inch (6 mm) thick	Blocky:	Cohesive soil that can be broken down into small angular lumps which resist further breakdown
Laminated:	Alternating layers of varying material or color with layers less than ¼-inch (6 mm) thick	Lensed:	Inclusion of small pockets of different soils
Fissured:	Breaks along definite planes of fracture with little resistance to fracturing	Layer:	Inclusion greater than 3 inches thick (75 mm)
Slickensided:	Fracture planes appear polished or glossy, sometimes striated	Seam:	Inclusion 1/8-inch to 3 inches (3 to 75 mm) thick extending through the sample
		Parting:	Inclusion less than 1/8-inch (3 mm) thick

### SCALE OF RELATIVE ROCK HARDNESS

<u>Q<sub>u</sub> - TSF</u>	<u>Consistency</u>
2.5 - 10	Extremely Soft
10 - 50	Very Soft
50 - 250	Soft
250 - 525	Medium Hard
525 - 1,050	Moderately Hard
1,050 - 2,600	Hard
>2,600	Very Hard

### ROCK BEDDING THICKNESSES

<u>Description</u>	<u>Criteria</u>
Very Thick Bedded	Greater than 3-foot (>1.0 m)
Thick Bedded	1-foot to 3-foot (0.3 m to 1.0 m)
Medium Bedded	4-inch to 1-foot (0.1 m to 0.3 m)
Thin Bedded	1¼-inch to 4-inch (30 mm to 100 mm)
Very Thin Bedded	½-inch to 1¼-inch (10 mm to 30 mm)
Thickly Laminated	1/8-inch to ½-inch (3 mm to 10 mm)
Thinly Laminated	1/8-inch or less "paper thin" (<3 mm)

### ROCK VOIDS

<u>Voids</u>	<u>Void Diameter</u>
Pit	<6 mm (<0.25 in)
Vug	6 mm to 50 mm (0.25 in to 2 in)
Cavity	50 mm to 600 mm (2 in to 24 in)
Cave	>600 mm (>24 in)

### GRAIN-SIZED TERMINOLOGY

<u>(Typically Sedimentary Rock)</u>	
<u>Component</u>	<u>Size Range</u>
Very Coarse Grained	>4.76 mm
Coarse Grained	2.0 mm - 4.76 mm
Medium Grained	0.42 mm - 2.0 mm
Fine Grained	0.075 mm - 0.42 mm
Very Fine Grained	<0.075 mm

### ROCK QUALITY DESCRIPTION

<u>Rock Mass Description</u>	<u>RQD Value</u>
Excellent	90 -100
Good	75 - 90
Fair	50 - 75
Poor	25 -50
Very Poor	Less than 25

### DEGREE OF WEATHERING

Slightly Weathered:	Rock generally fresh, joints stained and discoloration extends into rock up to 25 mm (1 in), open joints may contain clay, core rings under hammer impact.
Weathered:	Rock mass is decomposed 50% or less, significant portions of the rock show discoloration and weathering effects, cores cannot be broken by hand or scraped by knife.
Highly Weathered:	Rock mass is more than 50% decomposed, complete discoloration of rock fabric, core may be extremely broken and gives clunk sound when struck by hammer, may be shaved with a knife.

# Exhibit H

EXHIBIT H

**DIRECTIONS TO  
HICO ROAD SITE  
FOR PROPOSED CELLULAR TOWER FACILITY  
FROM CALLOWAY COUNTY COURTHOUSE  
101 SOUTH FIFTH STREET  
MURRAY, KENTUCKY**

1. From South Fifth Street, travel north 135 feet to Main Street.
2. Turn right on KY-94 East/Main Street.
3. Travel on KY-94 East for 6.9 miles.
4. Continue straight on KY-94 C East.
5. Travel on KY-94 C East for approximately 0.4 miles.
6. Turn right on to KY-80 East.
7. Travel on KY-80 East for 3.4 miles.
8. Turn right on to KY-1936/Green Valley Road.
9. Travel on KY-1936/Green Valley Road for 0.3 miles.
10. Take the first left on to Morris Road.
11. Travel approximately 0.4 miles on Morris Road. The proposed facility site will be on the left-hand side, approximately 150 feet beyond Morris Road's intersection with Tweety Bird Lane.

These directions were prepared with the assistance of Google Maps by:

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

# Exhibit I

DATE 12-8-2017  
 TIME 8:33 AM  
 BK 1158 PG 545  
 ANTONIA D. FAULKNER CLERK  
 CALLOWAY CO.

When Recorded Return To Preparer:

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

*Nancy Benjamin*

Site Name: HV1273 - Hico Road

State: KY

County: Calloway

## MEMORANDUM OF OPTION

This Memorandum of Option is entered into on this 14<sup>th</sup> day of November, 20 17, by and between James Calvin Barnett, having a mailing address of 1550 Kirk Ridge Road, Murray, KY 42071 ("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 November 14<sup>th</sup>, 20 17, regarding certain real property of Landlord described on **Exhibit A** attached hereto and made a part herof (the "Property").
2. The Agreement grants to Tenant for a period of thirty-six (36) months commencing on the 14<sup>th</sup> day of November, 20 17 an option (the "**Option**") to lease a portion of the Property measuring approximately 100' x 100' for a total of 10,000 square feet and located at ±Morris Road, Murray, KY 42071 (36° 42' 56.4" / 88° 10' 20.2") 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, Landlord will not lease or transfer any interest in the Property, within a one (1) square mile radius, to any other party for the purpose of constructing and operating a communications facility, without the prior written consent of Tenant.
4. 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.
5. 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.
6. 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.
7. 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}**

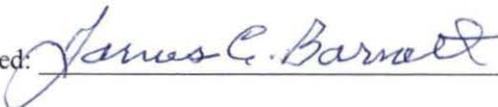
**{SIGNATURES AND ACKNOWLEDGEMENTS FOLLOW}**

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

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

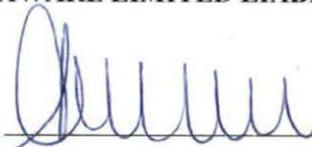
**LANDLORD**  
**James Calvin Barnett**

Signed: 

Print Name: James Calvin Barnett

Date: 11-2-17

**TENANT**  
**HORVATH TOWERS V, LLC**  
**A DELAWARE LIMITED LIABILITY COMPANY**

Signed: 

Print Name: Erin Moskwinski

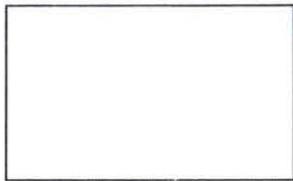
Title: Vice President/CMO

Date: 11.14.17

**LANDLORD ACKNOWLEDGMENT**

STATE OF Kentucky )  
 ) ss:  
COUNTY OF Calloway )

On the 2 day of Nov, 20 17 before me personally appeared James Calvin Barnett, who being duly sworn on his/her oath, deposed and made proof to my satisfaction that he/she signed and delivered the same as his/her voluntary act and deed.



Notary Seal

Artua D. Faulkner  
Notary Public

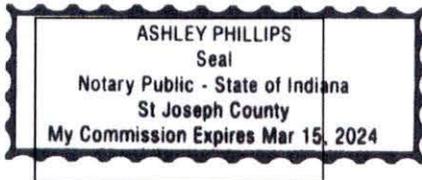
My Commission Expires: 8-23-17  
#538672

**TENANT ACKNOWLEDGMENT**

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

I CERTIFY that on the 14<sup>th</sup> day of November, 20 17 Erin Moskewski personally came before me and acknowledged under oath that she:

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



Notary Seal

Ashley Phillips  
Notary Public

My Commission Expires: 3/15/24

00549

**EXHIBIT A  
TO THE MEMORANDUM**

**DESCRIPTION OF PROPERTY**

PARCEL NO.: 075-0-0003-B

PROPERTY ADDRESS: ±Morris Road, Murray, KY 42071

000595

213/535

RECEIVED  
GALLOWAY CO. CLERK  
GENERAL WARRANTY DEED

'95 APR 26 AM 11 34

THIS INDENTURE, this day made and entered into by and between MARTHA R. CLARK, widow, single, of 30552 Barrington Street, Madison Heights, Michigan 48061, JAMES W. CLARK of 4430 Bentley Street, Troy, Michigan 48064, M. KAREN WEBB, of 5611 North Kansom Road, Wheeler, Michigan 49662, and KATHIE M. SIGMON, of 2075 Alfred Street, Troy, Michigan 48064, GRANTORS, and JAMES CALVIN BARNETT and wife, JANICE KAY BARNETT, jointly and equally with title to vest in the survivor of this union, of Route 3, Box 194, Murray, Kentucky 42071, GRANTEES,

WITNESSETH: That for and in consideration of the sum of ONE HUNDRED FIVE THOUSAND FIVE HUNDRED DOLLARS (\$105,500.00), cash in hand paid, the receipt and sufficiency of which is hereby acknowledged, GRANTORS have this day bargained, sold and herein convey unto GRANTEES the following described land lying and being in Calloway County, Kentucky, more particularly described as follows:

TRACT 1:

An 18.556 acre tract of land as surveyed by the firm of Trinity Engineering, Inc. on October 17, 1994 and as revised March 31, 1995, located approximately 10 miles northeast of the City of Murray, Calloway County, Kentucky, and being known as Tract 3 of the Martha Clark, et al property and being more particularly described as follows:

Beginning at a 3/4-inch iron pipe (found) on the northwest right-of-way of Morris Road (A.K.A. Outland Road), said pipe being the easternmost corner of the herein described tract of land;

Thence South 37 degrees 39 minutes 22 seconds West for a distance of 360.38 feet with the north right-of-way of Morris Road to a 12-inch black gum tree, said tree being the northeast corner of the James Duncan property (D.B. 110, Pg. 305) and the southeast corner of the herein described tract of land;

Thence North 83 degrees 50 minutes 07 seconds West for a distance of 719.56 feet with a fence line on the north boundary of Duncan to a point;

Thence North 87 degrees 46 minutes 23 seconds West for a distance of 524.95 feet continuing with the fence line on the north boundary of Duncan to a 16-inch hickory tree, said tree being the northwest corner of Duncan, a point on the east boundary of James Barnett (D.B. 158, Pg. 2717) and the southwest corner of the herein described tract of land;

Thence North 05 degrees 23 minutes 47 seconds East for a distance of 642.35 feet with fence line on the east boundary of Barnett to an iron pin (found) by a red oak tree, said tree being the northeast corner of Barnett, a point on the south boundary of Clark-Tract 3 and the northwest corner of the herein described tract of land;

THIS DEED WAS RECORDED IN THE OFFICE OF THE CLERK OF COURTS IN THE COUNTY OF CALLOWAY, KY, ON APRIL 26, 1995, AT 11:34 AM. BY: [Signature]

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of land;

Thence South 82 degrees 47 minutes 01 seconds East for a distance of 1360.11 feet with south boundary of Clark-Tract 2 to a 3/4-inch pipe (found), said pipe being the northwest corner of the McCraw property (D.B. 196, Pg. 381);

Thence South 11 degrees 34 minutes 02 seconds West for a distance of 242.93 feet with the west boundary of McCraw to a 3/4-inch iron pipe (found), said pipe being the southwest corner of McCraw;

Thence South 66 degrees 31 minutes 50 seconds East for a distance of 108.02 feet with the south boundary of McCraw to the point of beginning.

**TRACT 2:**

A 117.014 acre tract of land as surveyed by the firm of Trinity Engineering, Inc., on September 3, 1994, being known as Tract 2 of the Martha Clark, et al property, located approximately 10 miles northeast of the City of Murray, Callaway County, Kentucky, and being more particularly described as follows:

Beginning at a point located 20' south of the centerline of Jones Road (A.K.A. Hise Road) and 20' west of the centerline of Morris Road (A.K.A. Ouyland Road), said point being the Northeast corner of the herein described tract of land;

Thence South 34 degrees 17 minutes 68 seconds West for a distance of 817.47 feet with the west side of Morris Road to a point;

Thence South 38 degrees 20 minutes 24 seconds West for a distance of 557.17 feet to a #4 rebar (set) at the northeast corner of the McCraw Lumber property;

Thence North 80 degrees 27 minutes 26 seconds West for a distance of 210.39 feet to a 3/4" iron pipe (found) at the northeast corner of the Martha Clark Tract 3 property;

Thence North 82 degrees 47 minutes 01 seconds West for a distance of 1360.11 feet with the north line of Clark to an iron pin (found) by a Red Oak fence corner;

Thence North 82 degrees 19 minutes 56 seconds West for a distance of 1874.25 feet with the north line of the James Barnes property to a 10" Red Oak fence corner;

Thence North 08 degrees 24 minutes 18 seconds West for a distance of 864.48 feet to a 18" Red Oak fence corner located at the southwest corner of the Kenneth Howington property;

Thence North 89 degrees 43 minutes 14 seconds East for a distance of 1328.41 feet to a #4 rebar (set) at a stump fence corner;

Thence North 05 degrees 43 minutes 45 seconds West for a distance of 762.56 feet with the east line of Howington to a #4 rebar (set) at a fence corner;

Thence North 86 degrees 28 minutes 04 seconds East for a distance of 148.61 feet to a point located 20' south of the centerline of Jones Road;

Thence with the south side of Jones Road the following bearings and distance:  
North 86 degrees 40 minutes 06 seconds East for a distance of 299.19 feet to a point;

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Thence along a curve to the right having a radius of 378.30 feet and an arc length of 287.26 feet, being subtended by a chord of South 71 degrees 34 minutes 12 seconds East for a distance of 280.31 feet to a point;

South 49 degrees 48 minutes 29 seconds East for a distance of 296.60 feet to a point;

South 50 degrees 53 minutes 33 seconds East for a distance of 410.95 feet to a point;

North 41 degrees 14 minutes 43 seconds East for a distance of 108.09 feet to a point;

South 32 degrees 28 minutes 45 seconds East for a distance of 132.09 feet to a point;

Thence along a curve to the left having a radius of 191.99 feet and an arc length of 197.46 feet, being subtended by a chord of South 61 degrees 56 minutes 33 seconds East for a distance of 188.87 feet to a point;

North 88 degrees 35 minutes 39 seconds East for a distance of 183.17 feet to a point;

North 88 degrees 11 minutes 30 seconds East for a distance of 203.10 feet to a point;

North 84 degrees 41 minutes 49 seconds East for a distance of 289.05 feet to a point;

North 87 degrees 58 minutes 59 seconds East for a distance of 192.25 feet to a point;

Thence along a curve to the right having a radius of 813.17 feet and an arc length of 384.26 feet, being subtended by a chord of South 78 degrees 28 minutes 46 seconds East for a distance of 380.70 feet to a point;

South 64 degrees 56 minutes 31 seconds East for a distance of 185.44 feet to a point;

South 66 degrees 51 minutes 36 seconds East for a distance of 42.23 feet to a point;

South 69 degrees 46 minutes 18 seconds East for a distance of 88.19 feet to the point of beginning.

Together with and subject to covenants, easements and restrictions of record.

Grantor, Marlin E. Clark, obtained title to her interest hereby conveyed by deed from John E. Clark, et ux, dated February 19, 1993, of record in Book 188, Page 126, being a one-eighth (1/8) undivided interest, and obtained a one-half (1/2) undivided interest by deed from A. W. Morris, et ux, dated October 9, 1973, of record in Microfilm Book 155, Cabinet 1, Drawer 7, Card 751. Grantors, James W. Clark, M. Karen Webb and Kallie M. Bignton, obtained their one-eighth (1/8) undivided interest hereby conveyed by deed from A. W. Morris, et ux, dated July 4, 1987, of record in Microfilm Book 170, Cabinet 2, Drawer 22, Card 1630, all of the office of the Clerk of the Callaway County Court.

Grantors and Grantess shall provide the 1995 Ad Valorem taxes assessed against the subject property to the date hereof.

TO HAVE AND TO HOLD THE SAID PROPERTY UNTO THE SAID GRANTEES,  
**JAMES C. BARNETT** and wife, **JANICE KAY BARNETT**, jointly and equally with title to vest  
 in the survivor of this union, there, their heirs and assigns forever by deed with "Covenant of

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General Warranty.

JAMES W. CLARK, and wife, LYNN CLARK, M. KAREN WEBB, and husband, CULLEN WEBB, and KATHIE M. SIGMON and husband, TOM SIGMON, each join the other hereto relinquishing their respective rights of homestead, dower and curtesy in and to the property hereby conveyed.

Grantor, whether one or more, and Grantee, whether one or more, pursuant to KRS 382.135 and 382.990, after being sworn, hereby certify that the consideration above set out is the full and total consideration paid for the property interest hereby conveyed. We further certify our understanding that falsification of the stated consideration or sale price of the property is a Class D felony, subject to one to five years imprisonment and fines up to \$10,000.00.

GIVEN UNDER OUR HANDS, this the <sup>24th</sup> day of April, 1995.

GRANTOR(S):

Martha E. Clark  
MARTHA E. CLARK, widow, single

James W. Clark  
JAMES W. CLARK

Lynn Clark  
LYNN CLARK

M. Karen Webb  
M. KAREN WEBB

Cullen Webb  
CULLEN WEBB

Kathie M. Sigmon  
KATHIE M. SIGMON

Tom Sigmon  
TOM SIGMON

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GRANTOR(S):

James Calvin Barnett  
JAMES CALVIN BARNETT

Janice Kay Barnett  
JANICE KAY BARNETT

STATE OF Michigan  
COUNTY OF Oakland

The above and foregoing was this the 10th day of April, 1995,  
subscribed and sworn to before me by MARTHA H. CLARK, a widow, single, GRANTOR(S).

Christa Mason  
NOTARY PUBLIC, STATE AT LARGE  
MY COMMISSION EXPIRES: 9-14-98

STATE OF Michigan  
COUNTY OF Oakland

The above and foregoing was this the 15th day of April, 1995,  
subscribed and sworn to before me by JAMES W. CLARK and wife, LYNN CLARK,  
GRANTOR(S).

Tamara A. Fienushaw  
NOTARY PUBLIC, STATE AT LARGE  
MY COMMISSION EXPIRES:  
TAMARA A. FIENUSHAW  
Notary Public, Oakland County, Mich.  
My Commission Expires May 23, 1999

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STATE OF MICHIGAN  
COUNTY OF GRATIOT

The above and foregoing was this the 17th day of April 1995,  
subscribed and sworn to before me by M. KAREN WEBB and husband, COLLEN WEBB,  
GRANTOR(S).

*Kenneth L. Howell*  
NOTARY PUBLIC, STATE AT LARGE  
MY COMMISSION EXPIRES: \_\_\_\_\_  
KENNETH L. HOWELL  
NOTARY PUBLIC, GRATIOT COUNTY, MICH.  
My Commission Expires September 28, 1998

STATE OF Michigan  
COUNTY OF Alcona

The above and foregoing was this the 15th day of April 1995,  
subscribed and sworn to before me by KATHIE M. SIGMON and husband, TOM SIGMON,  
GRANTOR(S).

*Anna O. Rowland*  
NOTARY PUBLIC, STATE AT LARGE  
MY COMMISSION EXPIRES: \_\_\_\_\_  
ANNA O. ROWLAND  
Notary Public, Calhoun County, Mich.  
My Commission Expires May 22, 1998

STATE OF KENTUCKY  
COUNTY OF CALLOWAY

The above and foregoing was this the 24th day of April 1995,  
subscribed and sworn to before me by JAMES CALVIN BARNETT and wife, JANICE KAY  
BARNETT, GRANTEE(S).

*Louanna de la Riva*  
NOTARY PUBLIC, STATE AT LARGE, KY  
MY COMMISSION EXPIRES: 1-1-97

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STATE OF KENTUCKY  
COUNTY OF CALLOWAY

I, Ray Carney, Jr., Clerk of the Calloway County Court, do hereby certify that the above and foregoing Deed was this the 26 day of April, 1995, at the hour of 11:34 AM o'clock, lodged in my office for record, whereupon, the same, the foregoing and this certificate have been duly recorded in my office, on this the 26 day of April, 1995.

Ray Carney, Jr., CLERK

BY: Edwin Paschall, D.C.  
Transfer Tax: \$105.50

THIS INSTRUMENT PREPARED BY:  
STEPHEN C. SANDERS  
ATTORNEY AT LAW

BY: [Signature]

outsale

1121  
00629

After recording return to and  
send tax bills to:

Robert Kyle Wade  
685 Liberty Road  
Murray, KY 42071

DATE 1-20-17  
TIME 2:57 PM  
BK 1121 PG 1229  
ANTONIA D. FAULKNER CLERK  
CALLOWAY CO.

GENERAL WARRANTY DEED

**THIS DEED**, this day made and entered into by and between James Barnett,  
single, 1550 Kirk Ridge Road, Murray, Kentucky 42071, GRANTOR, and Robert Kyle Wade,  
685 Liberty Road, Murray, Kentucky 42071, GRANTEE.

**WITNESSETH:** That for and in consideration for estate planning purposes with  
no consideration being paid, GRANTOR has this day bargained, sold and conveyed unto  
GRANTEE, his heirs or assigns forever, the following described tract or parcel of land with the  
address, lying and being in Calloway County, Kentucky, to-wit:

A TRACT OF LAND LOCATED ON THE NORTH SIDE OF  
KENTUCKY HIGHWAY 1346, EAST OF KENTUCKY  
HIGHWAY 80, BEING TRACT A AS SHOWN ON MINOR  
SUBDIVISION PLAT RECORDED IN PLAT SECTION 54,  
PAGE 9, SLIDE 5225 IN THE CALLOWAY COUNTY COURT  
CLERK'S OFFICE AND MORE PARTICULARLY  
DESCRIBED AS FOLLOWS:

COMMENCING AT THE INTERSECTION OF THE  
CENTERLINE KENTUCKY HIGHWAY 80 AND THE  
CENTERLINE OF KENTUCKY HIGHWAY 1346; THENCE  
EASTERLY ALONG THE CENTERLINE OF KENTUCKY  
HIGHWAY 1356, 740 FEET, MORE OR LESS, TO A POINT;  
THENCE NORTHERLY 30 FEET TO A ½" REBAR WITH  
PLASTIC CAP (PLS 2403) SET AT THE POINT OF  
BEGINNING OF THE PROPERTY HEREIN DESCRIBED,  
SAID POINT OF BEGINNING BEING 828 FEET, MORE OR  
LESS, EAST OF THE SOUTHWEST CORNER OF THE  
NORTHWEST QUARTER OF SECTION 24, TOWNSHIP 3,  
RANGE 5 EAST;

THENCE FROM SAID POINT OF BEGINNING, LEAVING  
KENTUCKY HIGHWAY 1346 AND ON A NEW LINE  
ACROSS THE PROPERTY OF JAMES CALVIN AND JANICE

00630

K. BARNETT OF RECORD IN DEED BOOK 158, PAGE 2716  
IN SAID CLERK'S OFFICE, N 20 DEG. 58 MIN. 16 SEC. 3,  
624.61 FEET TO A ½" REBAR WITH PLASTIC CAP (PLS  
2403) SET;

THENCE ON A NEW LINE N 32 DEG. 33 MIN. 44 SEC. E,  
508.79 FEET TO A ½" REBAR WITH PLASTIC CAP (PLS  
2403) SET;

THENCE ON A NEW LINE, N 38 DEG. 21 MIN. 43 SEC. E,  
406.24 FEET TO A ½" REBAR WITH PLASTIC CAP (PLS  
2403) SET;

THENCE ON A NEW LINE, N 33 DEG. 03 MIN. 28 SEC. 3,  
17.67 FEET TO A ½" REBAR WITH PLASTIC CAP (2403) SET  
ON AFORESAID BARNETT'S PROPERTY OF RECORD IN  
DEED BOOK 213, PAGE 535 IN SAID CLERK'S OFFICE;

THENCE ON A NEW LINE, S 72 DEG. 32 MIN. 17 SEC. E,  
201.33 FEET TO A ½" REBAR WITH PLASTIC CAP (PLS  
2403) SET;

THENCE ON A NEW LINE, S 15 DEG. 50 MIN. 34 SEC. 2,  
200.81 FEET TO A ½" REBAR WITH PLASTIC CAP (PLS  
2403) SET;

THENCE ON A NEW LINE, N 74 DEG. 09 MIN. 26 SEC. 2,  
46.00 FEET TO A ½" REBAR WITH PLASTIC CAP (PLS 2403)  
SET;

THENCE ON A NEW LINE, S 15 DEG. 50 MIN. 34 SEC. 2, 450  
FEET, MORE OR LESS, TO THE NORTHWEST CORNER OF  
THE PROPERTY OF SANDRA LYONS OF RECORD IN DEED  
BOOK 771, PAGE 88 IN SAID CLERK'S OFFICE AND  
CONTINUING ALONG SAID LYONS PROPERTY S 15 DEG.  
50 MIN. 34 SEC. 2, 931 FEET, MORE OR LESS, FOR A TOTAL  
DISTANCE OF 1380.98 FEET TO AN EXISTING STONE  
LOCATED AT THE SOUTHWEST CORNER OF SAID  
LYONS' PROPERTY, BEING LOCATED ON THE NORTH  
LINE OF THE PROPERTY DWAIN D. AND GERALDINE  
BAKER OF RECORD IN DEED BOOK 151, PAGE 121, IN  
SAID CLERK'S OFFICE.

THENCE ALONG A COMMON LINE WITH SAID BAKER, N  
78 DEG. 36 MIN. 35 SEC. 2, 330.90 FEET TO AN EXISTING  
STONE;

00631

THENCE CONTINUING ALONG A COMMON LINE WITH SAID BAKER, N 83 DEG. 58 MIN. 32 SEC. 2, 32.58 FEET TO AN EXISTING REBAR AND CAP (3175);

THENCE CONTINUING ALONG A COMMON LINE WITH SAID BAKER, S 22 DEG. 14 MIN. 13 SEC. W, 86.96 FEET TO AN EXISTING 1/2" REBAR LOCATED ON THE NORTH RIGHT-OF-WAY LINE OF KENTUCKY HIGHWAY 1346, 30 FEET FROM THE CENTERLINE THEREOF;

THENCE ALONG THE NORTH RIGHT-OF-WAY LINE OF KENTUCKY 1346, N 55 DEG. 50 MIN. 19 SEC. 2, 110.16 FEET TO AN EXISTING 3/8" REBAR;

THENCE CONTINUING ALONG THE NORTH RIGHT-OF-WAY LINE OF KENTUCKY HIGHWAY 1346, N 63 DEG. 17 MIN. 09 SEC. W, 90.69 FEET TO THE POINT OF BEGINNING, CONTAINING 679,276 SQUARE FEET OR 15.59 ACRES.

THE ABOVE DESCRIBED PROPERTY IS SUBJECT TO AND BENEFITS FROM AN EXISTING OVERHEAD ELECTRIC LINE RUNNING FROM KENTUCKY HIGHWAY 1346 NORTHERLY ALONG OR NEAR THE WEST PROPERTY LINE.

BEING A PORTION OF THE PROPERTY CONVEYED TO JAMES C. BARNETT AND JANICE K. BARNETT BY DEED DATED MARCH 20, 1968, OF RECORD IN DEED BOOK 134, PAGE 321 WITH DEED OF CORRECTION DATED AUGUST 4, 1978, OF RECORD IN DEED BOOK 158, CARD 2716. SAID BARNETT CONVEYED 1/2 INTEREST IN THE PROPERTY TO RABON HARPER AND JOYCE HARPER BY DEED DATED AUGUST 8, 1978, OF RECORD IN DEED BOOK 158, CARD 2751. RABON HARPER AND JOYCE HARPER CONVEYED BACK TO JAMES CALVIN BARNETT AND JANICE K. BARNETT THEIR 1/2 INTEREST BY DEED DATED OCTOBER 8, 1996, OF RECORD IN DEED BOOK 239, PAGE 549, ALL OF THE ABOVE RECORDED IN THE CALLOWAY COUNTY COURT CLERK'S OFFICE.

ALSO, BEING A PORTION OF THE PROPERTY CONVEYED TO JAMES CALVIN BARNETT AND JANICE KAY BARNETT BY DEED DATED APRIL 24, 1995, OF RECORD IN DEED BOOK 213, PAGE 535 IN SAID CLERK'S OFFICE.

00632

ALSO, BEING ALL OF THE TRANGULAR SHAPED TRACT CONVEYED TO JAMES CALVIN BARNETT AND JANICE K. BARNETT BY DEED DATED AUGUST 4, 1978, OF RECORD IN DEED BOOK 158, CARD 2718 IN SAID CLERK'S OFFICE.

SEE ALSO A QUITCLAIM DEED TO JAMES CALVIN BARNETT AND JANICE K. BARNETT DATED AUGUST 7, 1978, OF RECORD IN DEED BOOK 158, CARD 2717 IN SAID CLERK'S OFFICE.

BEARINGS IN THE ABOVE DESCRIPTION ARE BASED UPON KENTUCKY STATE PLANE COORDINATES, SINGLE ZONE 1602, NAD 83.

THE ABOVE DESCRIBED PROPERTY IS SUBJECT TO ANY EXISTING EASEMENTS, EITHER RECORDED OR NOT RECORDED.

THE ABOVE DESCRIPTION IS PREPARED BY SITEWORX SURVEY AND DESIGN, LLC LOCATED AT 124 SOUTH 31<sup>ST</sup> STREET, PADUCAH, McCRACKEN COUNTY, KENTUCKY.

JANICE KAY BARNETT DIED JUNE 30, 2015, VESTING TITLE IN JAMES BARNETT.

**TO HAVE AND TO HOLD** unto said GRANTEE, Robert Kyle Wade, his heirs or assigns forever, free and clear of all encumbrances and with "Covenant of General Warranty".

**CONSIDERATION CERTIFICATE AND  
TAX BILL IN CARE OF NAME AND ADDRESS**

Pursuant to KRS 382.135 and subject to the penalties for perjury, GRANTOR and GRANTEE state that the consideration recited in this Deed is correct. The property tax bill in the year of transfer should be sent in care of Robert Kyle Wade, at the address stated in the introductory paragraph of this deed. GRANTEE joins this Deed to certify the consideration pursuant to KRS 382. According to the Property Valuation Administrator's Office, the fair market value of the property conveyed is \$9,785.00.

IN WITNESS OF ALL OF WHICH, GRANTOR and GRANTEE have

hereunto set their hands on this the 20 day of Jan., 2017.

GRANTOR  
James Barnett  
JAMES BARNETT

GRANTEE  
Robert Wade  
ROBERT KYLE WADE

STATE OF KENTUCKY  
COUNTY OF CALLOWAY

The foregoing General Warranty Deed and Consideration Certificate was subscribed, sworn and acknowledged to before me this 20<sup>th</sup> day of January, 2017, by James Barnett, GRANTOR.



Dawn Treas Dunaway  
NOTARY PUBLIC, State at Large  
My Commission Expires: 8-11-2019

STATE OF KENTUCKY  
COUNTY OF CALLOWAY

The foregoing Consideration Certificate was subscribed, sworn and acknowledged to before me this 20<sup>th</sup> day of January, 2017, by Robert Kyle Wade, GRANTEE.



Dawn Treas Dunaway  
NOTARY PUBLIC, State at Large  
My Commission Expires: 8-11-2019

THIS INSTRUMENT PREPARED BY  
Michael M. Pitman  
MICHAEL M. PITMAN  
HAVERSTOCK, BELL & PITMAN  
211 South 12th Street  
Murray, KY 42071  
(270) 753-1694

Jan 20 10.0

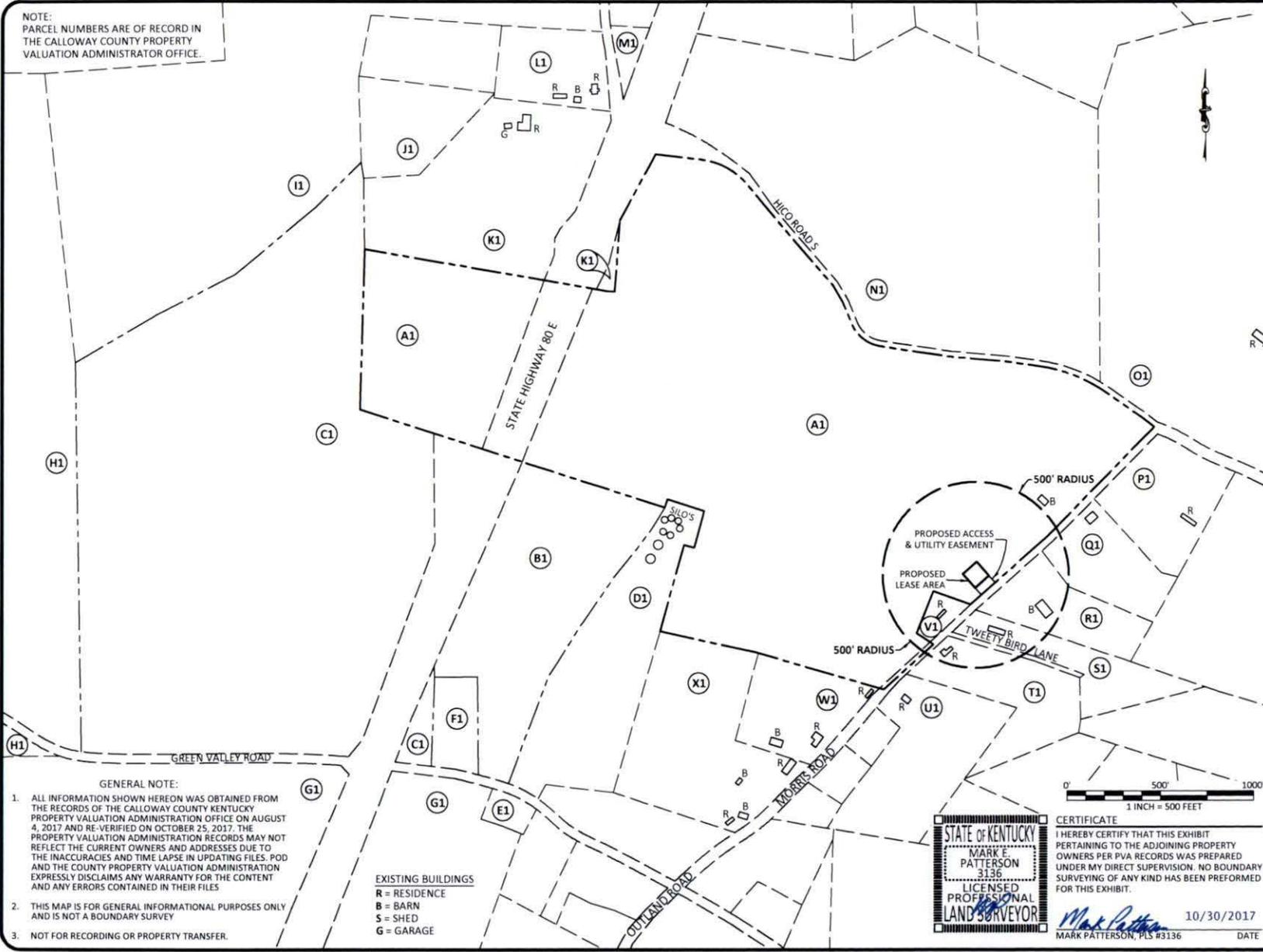
This instrument was prepared without the benefit of a title examination; the property description was furnished by Grantors and is not the responsibility of the draftsman; and the preparer is/was not responsible for closing this transaction or reporting the transaction to the Internal Revenue Service pursuant to IRS Section 6045(e) or other applicable law.



683356  
Recorded on: 1/20/2017 2:57:45 PM  
Book: GENERAL Number: 1121  
Pages: 629 - 633  
Antonia D. Faulkner, Calloway County  
DC: R11A  
Deed Tax: \$18.00

*Rita Kelso*

# Exhibit J



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

GENERAL NOTE:  
1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CALLOWAY COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON AUGUST 4, 2017 AND RE-VERIFIED ON OCTOBER 25, 2017. 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.

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

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

CERTIFICATE  
I HEREBY CERTIFY THAT THIS EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS PER PVA RECORDS WAS PREPARED UNDER MY DIRECT SUPERVISION. NO BOUNDARY SURVEYING OF ANY KIND HAS BEEN PERFORMED FOR THIS EXHIBIT.  
*Mark Patterson* 10/30/2017  
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

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**EXHIBIT**

REV.	DATE	DESCRIPTION
A	10.25.17	ISSUED FOR REVIEW
D	10.30.17	ISSUED AS FINAL

---

SITE INFORMATION:  
**HICO ROAD**  
HICO ROAD  
MURRAY, KY 42071  
CALLOWAY COUNTY  
TAX PARCEL NUMBER:  
075-0-0003-B  
PROPERTY OWNER:  
JAMES CALVIN BARNETT &  
JANICE KAY BARNETT  
1550 KIRK RIDGE ROAD  
MURRAY, KY 42071  
SOURCE OF TITLE:  
DEED BOOK 233, PAGE 535

---

SITE NUMBER:  
HV1273

---

VERIZON WIRELESS SITE NAME:  
EV HICO ROAD

---

POD NUMBER: 17-14726  
DRAWN BY: DAP  
CHECKED BY: MEP  
SURVEY DATE: 8.4.17  
PLAT DATE: 10.25.17

---

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

---

SHEET NUMBER:  
**B-2**

**(A1)** PARCEL ID: 075-0-0003-B  
BARNETT JAMES C  
1550 KIRK RIDGE ROAD  
MURRAY, KY 42071

**(B1)** PARCEL ID: 075-0-0020-A  
BARNETT JAMES C  
1550 KIRK RIDGE ROAD  
MURRAY, KY 42071

**(C1)** PARCEL ID: 075-0-0020  
BARNETT JAMES C  
1550 KIRK RIDGE ROAD  
MURRAY, KY 42071

**(D1)** PARCEL ID: 075-0-0020-C  
WADE ROBERT KYLE  
685 LIBERTY ROAD  
MURRAY, KY 42071

**(E1)** PARCEL ID: 075-0-0017  
ROGERS ROBBIE  
481 VAN CLEAVE ROAD  
MURRAY, KY 42071

**(F1)** PARCEL ID: 075-0-0020-B  
THORN MARGARET  
642 OAKLEY ROAD  
BENTON, KY 42025

**(G1)** PARCEL ID: 075-0-0018  
YOUNG BURTON R  
111 S 13TH ST  
MURRAY, KY 42071

**(H1)** PARCEL ID: 075-0-0029  
JOHNSON WOOD LAND TRUST THE  
c/o MELISSA JOHNSON  
19622 HENNING ROAD  
DANVILLE, IL 61834

**(I1)** PARCEL ID: 074-0-0030  
BRANDON HOWARD  
701 S 12TH  
MURRAY, KY 42071

**(J1)** PARCEL ID: 074-0-0034-C  
HAGEMAN ROBERT  
1137 HICO ROAD  
DEXTER, KY 42036

**(K1)** PARCEL ID: 074-0-0034  
CARTWRIGHT DAVID & TARA  
1129 HICO ROAD  
DEXTER, KY 42036

**(L1)** PARCEL ID: 074-0-0034-A  
DIX PHILLIP D & S DOWNS  
1157 HICO ROAD  
DEXTER, KY 42036

**(M1)** PARCEL ID: 075-0-0002-A  
DOWNS HOWARD & CHRISTINE  
DIX PHILLIP & SHEILA F  
1157 HICO ROAD  
DEXTER, KY 42036

**(N1)** PARCEL ID: 075-0-0002  
MELTON REGINA L &  
HARRIS AMELIA L  
1220 WATKINS SEBREE ROAD  
SEBREE, KY 42455

**(O1)** PARCEL ID: 075-0-0003  
FRAME RONALD & KIMBERLY D  
432 HICO ROAD  
MURRAY, KY 42071

**(P1)** PARCEL ID: 075-0-0003-A  
ELLIOTT MARY E  
660 MORRIS ROAD  
DEXTER, KY 42036

**(Q1)** PARCEL ID: 075-0-0003-E  
IRWIN KEVIN W  
568 MORRIS ROAD  
DEXTER, KY 42036

**(R1)** PARCEL ID: 075-0-0003-D  
GARLAND HOWARD  
466 MORRIS ROAD  
DEXTER, KY 42036

**(S1)** PARCEL ID: 075-0-0004-B  
MANNING JOE & CHERYL A  
118 ROLLING ACRES LANE  
MURRAY, KY 42071

**(T1)** PARCEL ID: 075-0-0004-D  
MANNING JOE & CHERYL A  
118 ROLLING ACRES LANE  
MURRAY, KY 42071

**(U1)** PARCEL ID: 075-0-0005  
DUNCAN MELANIE  
256 MORRIS ROAD  
DEXTER, KY 42036

**(V1)** PARCEL ID: 075-0-0004-A  
THOMPSON MONTY LEE  
391 MORRIS ROAD  
DEXTER, KY 42036

**(W1)** PARCEL ID: 075-0-0010  
DUNCAN AMY  
211 MORRIS ROAD  
DEXTER, KY 42036

**(X1)** PARCEL ID: 075-0-0010-A  
LYONS SANDRA  
534 OSBORNE ROAD  
MURRAY, KY 42071

**GENERAL NOTE:**

- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CALLOWAY COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON AUGUST 4, 2017 AND RE-VERIFIED ON OCTOBER 25, 2017. 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 CALLOWAY 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* 10/30/2017  
MARK PATTERSON, PLS #3136 DATE



**EXHIBIT**

REV.	DATE	DESCRIPTION
A	10.25.17	ISSUED FOR REVIEW
D	10.30.17	ISSUED AS FINAL

**SITE INFORMATION:**

**HICO ROAD**  
HICO ROAD  
MURRAY, KY 42071  
CALLOWAY COUNTY

**TAX PARCEL NUMBER:**  
075-0-0003-B

**PROPERTY OWNER:**  
JAMES CALVIN BARNETT &  
JANICE KAY BARNETT  
1550 KIRK RIDGE ROAD  
MURRAY, KY 42071

**SOURCE OF TITLE:**  
DEED BOOK 213, PAGE 535

**SITE NUMBER:**  
HV1273

**VERIZON WIRELESS SITE NAME:**  
EV HICO ROAD

**POD NUMBER:** 17-14726  
**DRAWN BY:** DAP  
**CHECKED BY:** MEP  
**SURVEY DATE:** 8.4.17  
**PLAT DATE:** 10.25.17

**SHEET TITLE:**

**500' RADIUS AND  
ABUTTERS MAP**

**SHEET NUMBER:**  
**B-2.1**

<b>NAME</b>	<b>NAME 2</b>	<b>ADDRESS</b>	<b>City</b>	<b>State</b>	<b>Zip</b>
James C. Barnett		1550 Kirk Ridge Road	Murray	KY	42071
Robert Kyle Wade		685 Liberty Road	Murray	KY	42071
Robbie Rogers		481 Van Cleave Road	Murray	KY	42071
Margaret Thornton		642 Oakley Road	Benton	KY	42025
Burton R. Young		115 S 13th Street	Murray	KY	42071
The Johnson Wood Land Trust	c/o Melissa Johnson	19622 Henning Road	Danville	IL	61834
Howard Brandon		701 South 12th Street	Murray	KY	42071
Robert Hageman		1137 Hico Road	Dexter	KY	42036
David and Tara Cartwright		1129 Hico Road	Dexter	KY	42036
Phillip and S Downs Dix		1157 Hico Road	Dexter	KY	42036
Howard and Christine Downs		1157 Hico Road	Dexter	KY	42036
Regina Melton and Ameila Harris		1220 Watkins Sebree Road	Sebree	KY	42455
Donald and Kimberly Frame		432 Hico Road	Murray	KY	42071
Mary E. Elliott		600 Morris Road	Dexter	KY	42036
Kevin W. Irwin		568 Morris Road	Dexter	KY	42036
Howard Garland		466 Morris Road	Dexter	KY	42036
Joe and Cheryl Manning		118 Rolling Acres Lane	Murray	KY	42071
Melanie Duncan		256 Morris Road	Dexter	KY	42036
Monty Lee Thompson		391 Morris Road	Dexter	KY	42036
Amy Duncan		211 Morris Road	Dexter	KY	42036
Sandra Lyons		534 Osborne Way	Murray	KY	42071

# Exhibit K

JACOB C. WALBOURN  
jwalbourn@mmlk.com



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

February 23, 2018

**Via Certified Mail**

James C. Barnett  
1550 Kirk Ridge Road  
Murray, KY 42071

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

Dear Property Owner:

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Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

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

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

February 23, 2018

**Via Certified Mail**

Robert Kyle Wade  
685 Liberty Road  
Murray, KY 42071

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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McBrayer, McGinnis, Leslie & Kirkland, PLLC

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

February 23, 2018

**Via Certified Mail**

Robbie Rogers  
481 Van Cleave Road  
Murray, KY 42071

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

A handwritten signature in blue ink, appearing to read "J. Walbourn", written over a faint blue circular stamp.

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

February 23, 2018

**Via Certified Mail**

Margaret Thornton  
642 Oakley Road  
Benton, KY 42025

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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McBrayer, McGinnis, Leslie & Kirkland, PLLC

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

February 23, 2018

**Via Certified Mail**

Burton R. Young  
115 S 13th Street  
Murray, KY 42071

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

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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

February 23, 2018

**Via Certified Mail**

The Johnson Wood Land Trust  
c/o Melissa Johnson  
19622 Henning Road  
Danville, IL 61834

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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McBrayer, McGinnis, Leslie & Kirkland, PLLC

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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

February 23, 2018

**Via Certified Mail**

Howard Brandon  
701 South 12th Street  
Murray, KY 42071

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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W. Brent Rice  
Counsel for Horvath Towers V, LLC

Enclosure

JACOB C. WALBOURN  
jwalbourn@mmik.com



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

February 23, 2018

**Via Certified Mail**

Robert Hageman  
1137 Hico Road  
Dexter, KY 42036

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  
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Docket No. 2017-00442

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

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JACOB C. WALBOURN  
jwalbourn@mmlk.com



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

February 23, 2018

**Via Certified Mail**

David and Tara Cartwright  
1129 Hico Road  
Dexter, KY 42036

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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W. Brent Rice  
Counsel for Horvath Towers V, LLC

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jwalbourn@mmlk.com



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February 23, 2018

**Via Certified Mail**

Phillip and S Downs Dix  
1157 Hico Road  
Dexter, KY 42036

Re: Notice of Horvath Towers V, LLC ("Applicant") to Adjacent Landowners of its  
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W. Brent Rice  
Counsel for Horvath Towers V, LLC

Enclosure

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jwalbourn@mmlk.com



201 EAST MAIN STREET, SUITE 900  
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February 23, 2018

**Via Certified Mail**

Howard and Christine Downs  
1157 Hico Road  
Dexter, KY 42036

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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

February 23, 2018

**Via Certified Mail**

Regina Melton and Ameila Harris  
1220 Watkins Sebree Road  
Sebree, KY 42455

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  
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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 this application. You may contact the PSC by contacting the Executive Director, Public Service Commission, PO Box 615, Frankfort, Kentucky 40602. Please refer to Docket No. 2017-00442 in any correspondence related to this application. You may contact the undersigned if we can assist in any way.

Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

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

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

February 23, 2018

**Via Certified Mail**

Donald and Kimberly Frame  
432 Hico Road  
Murray, KY 42071

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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

JACOB C. WALBOURN  
jwalbourn@mmlk.com



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

February 23, 2018

**Via Certified Mail**

Mary E. Elliott  
600 Morris Road  
Dexter, KY 42036

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

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

February 23, 2018

**Via Certified Mail**

Kevin W. Irwin  
568 Morris Road  
Dexter, KY 42036

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 290' self-supporting tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at Hico Road in Murray, Calloway 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

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

February 23, 2018

**Via Certified Mail**

Howard Garland  
466 Morris Road  
Dexter, KY 42036

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

Dear Property Owner:

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Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

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

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

February 23, 2018

**Via Certified Mail**

Joe and Cheryl Manning  
118 Rolling Acres Lane  
Murray, KY 42071

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

Dear Property Owner:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 290' self-supporting tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at Hico Road in Murray, Calloway 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 blue ink, appearing to read "J. Walbourn", with a long horizontal flourish extending to the right.

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

February 23, 2018

**Via Certified Mail**

Melanie Duncan  
256 Morris Road  
Dexter, KY 42036

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

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

February 23, 2018

**Via Certified Mail**

Monty Lee Thompson  
391 Morris Road  
Dexter, KY 42036

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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

JACOB C. WALBOURN  
jwalbourn@mmlk.com



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

February 23, 2018

**Via Certified Mail**

Amy Duncan  
211 Morris Road  
Dexter, KY 42036

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

Dear Property Owner:

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Sincerely,

McBrayer, McGinnis, Leslie & Kirkland, PLLC

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

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

February 23, 2018

**Via Certified Mail**

Sandra Lyons  
534 Osborne Way  
Murray, KY 42071

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 Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

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

Google Maps 36°42'56.5"N 88°10'21.0"W



Imagery ©2018 DigitalGlobe, USDA Farm Service Agency, Map data ©2018 Google 200 ft



36°42'56.5"N 88°10'21.0"W  
36.715700, -88.172500

# Exhibit L

JACOB C. WALBOURN  
jwalbourn@mmlk.com



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

February 23, 2018

**Via Certified Mail**

Judge-Executive Larry Elkins  
101 South Fifth Street  
Murray, Kentucky 42071

Re: Notice of Horvath Towers V, LLC ("Applicant") to Judge-Executive of its  
Application before the Kentucky Public Service Commission to Construct a Cellular  
Tower Facility at Hico Road in Murray, Calloway County, Kentucky  
Docket No. 2017-00442

Dear Judge Elkins:

Horvath Towers V, LLC has applied to the Kentucky Public Service Commission to construct a 290' self-supporting tower and an approximately 10-foot tall lighting arrestor and related improvements, to be located at Hico Road in Murray, Calloway County, Kentucky. 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,

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

Jacob C. Walbourn  
Counsel for Horvath Towers V, LLC

Enclosure

Google Maps 36°42'56.5"N 88°10'21.0"W



Imagery ©2018 DigitalGlobe, USDA Farm Service Agency, Map data ©2018 Google 200 ft



36°42'56.5"N 88°10'21.0"W  
36.715700, -88.172500

# Exhibit M



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

**If you have questions, please contact:**

**Horvath Towers V, LLC**

**312 W Colfax Ave, South Bend, IN 46614**

**or The Executive Director, Public Service Commission,**

**211 Sower Boulevard, PO Box 615,**

**Frankfort, KY 40602**

**Please refer to Case No. 2017-00442 in your correspondence**

Horvath Communications proposes to construct a telecommunications tower on or near this site. If you have questions, please contact Zoning Manager at 312 West Colfax, South Bend, IN 46614 or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615 Frankfort, Kentucky 40602. Please refer to Case No. 2017-0042 in your correspondence.

JACOB C. WALBOURN  
jwalbourn@mmlk.com



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

February 26, 2018

Murray Ledger & Times  
Attn: Legal Notice Advertisements  
PO Box 1040  
Murray, Kentucky 42071

Re: Legal Notice Advertisements  
Site: Hico Road

Dear Sir or Madam:

Pursuant to our conversation, this letter shall serve to confirm that you will publish the following legal notice advertisement in the next edition of *The Murray Ledger & Times*:

#### NOTICE

**Horvath Towers V, LLC has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new cell tower facility on a site located on Hico Road, Murray, Kentucky 42701 (36 42' 56.5" North latitude, 88 10' 21.0" West latitude). You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2017-00442 in any correspondence with this matter.**

After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to McBrayer, McGinnis, Leslie & Kirkland, PLLC, 201 East Main Street, Suite 900, Lexington, Kentucky 40507. Please call me at (859) 231-8780 if you have any questions. Thank you for your assistance.

Sincerely,

A handwritten signature in blue ink, appearing to read "Jacob C. Walbourn", with a long, sweeping underline that extends to the right.

Jacob C. Walbourn  
Counsel for Horvath Towers V, LLC

4827-1953-5966, v. 1

# Exhibit N

# SARF



Help

## Data

## Versions

### SARF



**Network Area:**  
Midwest

**Search Ring Name:**  
EV Hico Road

**Search Ring Type:**  
Macro

**Priority:**  
Normal

**City:**  
Dexter

**State:**  
Kentucky

**Site Objective:**  
Capacity

**Requested Centerline:**  
300

**Requested Antenna Type:**  
Panels

**SR - Created Date:**

**Network Region:**  
Michigan/Indiana/KY

**Search Ring ID:**  
9031955

**Sub-Type:**  
Traditional

**Address:**

**Zip:**  
42036

**Latitude (DMS):**  
36° 42' 59.4" N36.71650000

**Site Objective Comments:**  
Offloading EV Golden Pond Beta

**Max Center Line:**  
325

**Minimum Number of Antennas Per Sector:**  
4

**SR - Created By:**

**Network Market:**  
Indiana/Kentucky

**Address2:**

**County:**  
Calloway

**Longitude (DMS):**  
88° 9' 42.12" W-88.16170000

**Search Ring Radius (miles):**  
1.5

**Min Center Line:**  
275

**Number of Sectors:**  
3

**SARF Comments:**

### NSS



**GeoPlan Market:**  
Indianapolis

**Granite Locale:**  
INDIANA

### Knowledge Base



<https://vzwsiterra.freshdesk.com/solution/categories/5000082999/folders/5000130544/articles/5000511415-100-1-sarf-form>

This form contains new fields which were not defined at the time this version was completed. Try viewing a newer version of the form, or create a new version.

Print Cancel

# SARF MAP



EV Hico Road – New Build SARF Map