

APR 05 2018

PUBLIC SERVICE  
COMMISSION

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

In the Matter of:

THE APPLICATION OF	)	
NEW CINGULAR WIRELESS PCS, LLC,	)	
A DELAWARE LIMITED LIABILITY COMPANY,	)	
D/B/A AT&T MOBILITY	)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC	)	CASE NO.: 2018-00121
CONVENIENCE AND NECESSITY TO CONSTRUCT	)	
A WIRELESS COMMUNICATIONS FACILITY	)	
IN THE COMMONWEALTH OF KENTUCKY	)	
IN THE COUNTY OF CARROLL	)	

SITE NAME: WRIGHTS RIDGE

\*\*\*\*\*

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

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

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

1. The complete name and address of the Applicant: New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company, d/b/a AT&T Mobility, having a local address of Meidinger Tower, 462 S. 4<sup>th</sup> Street, Suite 2400, Louisville, KY 40202.

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

3. The Certificate of Authority filed with the Kentucky Secretary of State for the Applicant entity was attached to a prior application and is part of the case record for PSC case number 2011-00473 and is hereby incorporated by reference.

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

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Applicant's services to an area currently not served or not adequately served by the Applicant by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. The WCF will provide a necessary link in the Applicant's communications network that is designed to meet the increasing demands

for wireless services in Kentucky's wireless communications service area. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.

6. To address the above-described service needs, Applicant proposes to construct a WCF at 2126 Wrights Ridge Road, Milton Kentucky (38°40'25.13" North latitude, 85°15'33.67" West longitude), on a parcel of land located entirely within the county referenced in the caption of this application. The property on which the WCF will be located is owned by Foster B. Helm pursuant to a Deed recorded at Deed Book 170, Page 435 in the office of the County Clerk. The proposed WCF will consist of a 255-foot tall tower, with a 15-foot lightning arrestor attached at the top, for a total height not to exceed 270-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Applicant's radio electronics equipment and appurtenant equipment. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit B** and **Exhibit C**.

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

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

as part of **Exhibit B**.

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

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

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

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

13. A geotechnical engineering firm has performed soil boring(s) and subsequent geotechnical engineering studies at the WCF site. A copy of the geotechnical engineering report, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, is attached as **Exhibit G**. The name and address of the geotechnical engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included as part of this

exhibit.

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

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

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

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

18. As noted on the Survey attached as part of **Exhibit B**, the surveyor has determined that the site is not within any flood hazard area.

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

illustrated in **Exhibit B**.

20. Applicant has notified every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. Each notified property owner has been provided with a map of the location of the proposed construction, the PSC docket number for this application, the address of the PSC, and has been informed of his or her right to request intervention. A list of the notified property owners and a copy of the form of the notice sent by certified mail to each landowner are attached as **Exhibit J** and **Exhibit K**, respectively.

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

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

as part of **Exhibit M**.

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

24. The process that was used by the Applicant's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the Applicant. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit N**.

25. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area. In addition to expanding and improving voice and data service for AT&T mobile customers, this site will also provide wireless local loop ("WLL") broadband internet service in the subject area. As a participant in the FCC's Connect America Fund Phase II (CAF II) program, AT&T is aggressively deploying WLL service infrastructure to bring expanded internet access to residential and business customers in rural and other underserved

areas. WLL will support internet access at the high speeds required to use and enjoy the most current business, education and entertainment technologies. Broadband service via WLL will be delivered from the tower to a dedicated antenna located at the home or business receiving service and will support downloads at 10 Mbps and uploads at 1 Mbps.

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

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

David A. Pike  
Pike Legal Group, PLLC  
1578 Highway 44 East, Suite 6  
P. O. Box 369  
Shepherdsville, KY 40165-0369  
Telephone: (502) 955-4400  
Telefax: (502) 543-4410  
Email: [dpike@pikelegal.com](mailto:dpike@pikelegal.com)

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

Respectfully submitted,



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David A. Pike  
Pike Legal Group, PLLC  
1578 Highway 44 East, Suite 6  
P. O. Box 369  
Shepherdsville, KY 40165-0369  
Telephone: (502) 955-4400  
Telefax: (502) 543-4410  
Email: dpike@pikelegal.com  
Attorney for New Cingular Wireless PCS, LLC  
d/b/a AT&T Mobility

## LIST OF EXHIBITS

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

**EXHIBIT A**  
**FCC LICENSE DOCUMENTATION**

**REFERENCE COPY**

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



**Federal Communications Commission  
Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: LESLIE WILSON  
NEW CINGULAR WIRELESS PCS, LLC  
208 S AKARD ST., RM 1016  
DALLAS, TX 75202

<b>Call Sign</b> KNLF251	<b>File Number</b>
<b>Radio Service</b> CW - PCS Broadband	

**FCC Registration Number (FRN):** 0003291192

<b>Grant Date</b> 06-02-2015	<b>Effective Date</b> 06-13-2017	<b>Expiration Date</b> 06-23-2025	<b>Print Date</b>
<b>Market Number</b> MTA026	<b>Channel Block</b> A	<b>Sub-Market Designator</b> 15	
<b>Market Name</b> Louisville-Lexington-Evansvill			
<b>1st Build-out Date</b> 06-23-2000	<b>2nd Build-out Date</b> 06-23-2005	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

**Waivers/Conditions:**

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

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

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

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

**Licensee Name:** NEW CINGULAR WIRELESS PCS, LLC

**Call Sign:** KNLF251

**File Number:**

**Print Date:**

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Spectrum Lease Associated with this License. See Spectrum Leasing Arrangement Letter dated 12/06/2004 and File # 0001918512.

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

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**Federal Communications Commission  
Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: LESLIE WILSON  
NEW CINGULAR WIRELESS PCS, LLC  
208 S AKARD ST., RM 1016  
DALLAS, TX 75202

<b>Call Sign</b> KNLG209	<b>File Number</b>
<b>Radio Service</b> CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

<b>Grant Date</b> 04-12-2017	<b>Effective Date</b> 06-13-2017	<b>Expiration Date</b> 04-28-2027	<b>Print Date</b>
<b>Market Number</b> BTA263	<b>Channel Block</b> D	<b>Sub-Market Designator</b> 0	
<b>Market Name</b> Louisville, KY			
<b>1st Build-out Date</b> 04-28-2002	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

**Waivers/Conditions:**

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

**Conditions:**

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

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**Federal Communications Commission**  
**Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: LESLIE WILSON  
 NEW CINGULAR WIRELESS PCS, LLC  
 208 S AKARD ST., RM 1016  
 DALLAS, TX 75202

<b>Call Sign</b> KNKQ255	<b>File Number</b>
<b>Radio Service</b> CL - Cellular	
<b>Market Numer</b> CMA449	<b>Channel Block</b> B
<b>Sub-Market Designator</b> 0	

FCC Registration Number (FRN): 0003291192

<b>Market Name</b> Kentucky 7 - Trimble
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<b>Grant Date</b> 10-26-2010	<b>Effective Date</b> 06-13-2017	<b>Expiration Date</b> 10-01-2020	<b>Five Yr Build-Out Date</b>	<b>Print Date</b>
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**Site Information:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	38-10-45.7 N	085-06-34.5 W	363.9	123.7	1043315
<b>Address:</b> 578 JEPHTHA KNOB ROAD (76266)					
<b>City:</b> SHELBYVILLE <b>County:</b> SHELBY <b>State:</b> KY <b>Construction Deadline:</b>					

**Antenna: 4**

<b>Maximum Transmitting ERP in Watts:</b> 140.820								
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	224.000	225.000	238.500	229.000	238.200	249.600	254.700	240.500
<b>Transmitting ERP (watts)</b>	70.800	117.500	43.700	30.900	0.235	15.500	55.000	109.600

**Antenna: 5**

<b>Maximum Transmitting ERP in Watts:</b> 140.820								
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	224.000	225.000	238.500	229.000	238.200	249.600	254.700	240.500
<b>Transmitting ERP (watts)</b>	0.800	7.300	17.100	13.500	2.100	0.100	0.100	0.100

**Antenna: 6**

<b>Maximum Transmitting ERP in Watts:</b> 140.820								
Azimuth(from true north)	0	45	90	135	180	225	270	315
<b>Antenna Height AAT (meters)</b>	224.000	225.000	238.500	229.000	238.200	249.600	254.700	240.500
<b>Transmitting ERP (watts)</b>	0.300	0.100	0.200	0.100	0.700	2.100	1.700	1.600

**Conditions:**

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKQ255

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	38-36-14.0 N	085-20-21.9 W	262.7	126.2	1043334

Address: ROUTE 1 BOX 275 (76278)

City: Bedford County: TRIMBLE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.500	149.100	159.600	136.600	133.800	216.300	168.000	176.300
Transmitting ERP (watts)	50.400	49.800	10.000	3.300	0.300	1.700	14.200	43.400

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.500	149.100	159.600	136.600	133.800	216.300	168.000	176.300
Transmitting ERP (watts)	1.500	33.500	168.700	231.500	49.200	5.200	1.800	0.700

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.500	149.100	159.600	136.600	133.800	216.300	168.000	176.300
Transmitting ERP (watts)	3.400	0.800	2.200	7.300	33.800	55.400	62.400	19.500

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	38-37-52.3 N	085-09-24.1 W	247.8	88.4	1043327

Address: 667 DRIPPINGS SPRINGS ROAD (76271)

City: CARROLLTON County: CARROLL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	115.900	129.000	149.700	106.300	80.100	94.300	103.800	139.500
Transmitting ERP (watts)	86.300	143.200	53.200	37.700	0.300	18.900	67.000	133.700

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	115.900	129.000	149.700	106.300	80.100	94.300	103.800	139.500
Transmitting ERP (watts)	1.800	39.700	200.000	274.500	58.300	6.200	2.200	0.800

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	115.900	129.000	149.700	106.300	80.100	94.300	103.800	139.500
Transmitting ERP (watts)	3.400	0.536	1.200	5.700	76.900	268.200	195.400	26.800

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKQ255

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	38-12-51.9 N	085-22-20.7 W	231.0	75.3	1028137

Address: 8464 SHELBYVILLE ROAD (76267)

City: SIMPSONVILLE County: SHELBY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.200	68.300	76.100	83.000	84.900	93.700	97.300	85.200
Transmitting ERP (watts)	145.900	233.900	96.400	74.000	0.500	26.900	118.600	239.300

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.200	68.300	76.100	83.000	84.900	93.700	97.300	85.200
Transmitting ERP (watts)	26.600	113.500	136.500	145.500	110.400	34.100	42.000	26.000

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.200	68.300	76.100	83.000	84.900	93.700	97.300	85.200
Transmitting ERP (watts)	32.000	32.700	28.400	33.300	121.000	129.700	153.100	96.600

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	38-22-31.0 N	085-10-05.6 W	271.3	126.2	1000277

Address: 474 ELM ST (76272)

City: EMINENCE County: HENRY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	131.600	152.000	163.000	134.800	148.900	147.100	140.200	134.400
Transmitting ERP (watts)	157.800	176.000	51.600	28.900	0.400	10.700	59.300	176.000

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	131.600	152.000	163.000	134.800	148.900	147.100	140.200	134.400
Transmitting ERP (watts)	14.400	95.600	191.900	199.800	125.300	35.900	26.500	9.900

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	131.600	152.000	163.000	134.800	148.900	147.100	140.200	134.400
Transmitting ERP (watts)	27.400	10.600	14.200	31.300	140.600	186.400	210.400	81.400

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKQ255

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	38-08-31.2 N	085-19-19.9 W	222.2	60.7	

Address: 6070 Taylorsville Road (115123)

City: Shelbyville County: SHELBY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	50.200	56.600	57.700	72.400	89.400	74.700	69.900	58.800
Transmitting ERP (watts)	147.100	140.500	179.600	98.700	35.000	26.000	32.200	47.600

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	50.200	56.600	57.700	72.400	89.400	74.700	69.900	58.800
Transmitting ERP (watts)	0.300	1.600	8.200	17.900	14.200	22.100	6.400	2.600

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	50.200	56.600	57.700	72.400	89.400	74.700	69.900	58.800
Transmitting ERP (watts)	47.600	7.100	4.100	2.700	4.100	33.100	74.900	89.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	38-07-41.6 N	085-11-21.0 W	242.3	61.0	

Address: 6515 Mt. Eden Rd (114913)

City: Shelbyville County: SHELBY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	66.700	36.300	47.500	68.600	78.900	83.400	81.300	76.500
Transmitting ERP (watts)	105.000	174.200	64.700	45.800	0.348	23.000	81.500	162.600

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	66.700	36.300	47.500	68.600	78.900	83.400	81.300	76.500
Transmitting ERP (watts)	3.100	18.200	36.700	41.900	26.800	4.800	2.400	1.800

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	66.700	36.300	47.500	68.600	78.900	83.400	81.300	76.500
Transmitting ERP (watts)	3.200	0.700	2.100	6.500	25.600	36.500	44.100	16.200

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKQ255

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	38-38-10.0 N	085-05-53.5 W	245.4	90.2	1036425

Address: 310 Whites Run Road (37647)

City: CARROLLTON County: CARROLL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.100	83.600	102.400	130.000	70.400	71.000	91.300	126.200
Transmitting ERP (watts)	145.700	137.000	127.800	38.600	48.600	22.000	22.000	108.000

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.100	83.600	102.400	130.000	70.400	71.000	91.300	126.200
Transmitting ERP (watts)	1.300	6.300	85.100	296.800	216.300	29.700	3.800	0.600

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.100	83.600	102.400	130.000	70.400	71.000	91.300	126.200
Transmitting ERP (watts)	13.300	3.400	0.700	1.000	18.400	147.100	346.700	131.100

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	38-39-36.8 N	085-02-15.7 W	248.4	80.7	1207331

Address: 7881 Hwy 36 East

City: Sanders County: CARROLL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.700	100.900	100.500	95.100	118.800	93.600	130.200	103.900
Transmitting ERP (watts)	34.900	70.500	83.300	36.800	5.500	2.900	2.800	5.200

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.700	100.900	100.500	95.100	118.800	93.600	130.200	103.900
Transmitting ERP (watts)	5.500	1.800	1.100	2.900	56.300	252.800	281.000	50.800

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.700	100.900	100.500	95.100	118.800	93.600	130.200	103.900
Transmitting ERP (watts)	83.300	36.800	5.500	2.900	2.800	5.200	34.900	70.500

Control Points:

Control Pt. No. 1

Address: 3503 COLLEGE DRIVE

City: JEFFERSONTOWN County: State: KY Telephone Number:

**Licensee Name:** NEW CINGULAR WIRELESS PCS, LLC

**Call Sign:** KNKQ255

**File Number:**

**Print Date:**

**Waivers/Conditions:**

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

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

**REFERENCE COPY**

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



**Federal Communications Commission  
Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: LESLIE WILSON  
NEW CINGULAR WIRELESS PCS, LLC  
208 S AKARD ST., RM 1016  
DALLAS, TX 75202

<b>Call Sign</b> WPOI255	<b>File Number</b>
<b>Radio Service</b> CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

<b>Grant Date</b> 05-27-2015	<b>Effective Date</b> 06-14-2017	<b>Expiration Date</b> 06-23-2025	<b>Print Date</b>
<b>Market Number</b> MTA026	<b>Channel Block</b> A	<b>Sub-Market Designator</b> 19	
<b>Market Name</b> Louisville-Lexington-Evansvill			
<b>1st Build-out Date</b> 06-23-2000	<b>2nd Build-out Date</b> 06-23-2005	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

**Waivers/Conditions:**

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

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

**Conditions:**

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

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

**Licensee Name:** NEW CINGULAR WIRELESS PCS, LLC

**Call Sign:** WPOI255

**File Number:**

**Print Date:**

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

This license is conditioned upon compliance with the provisions of Applications of AT&T Wireless Services, Inc. and Cingular Wireless Corporation For Consent to Transfer Control of Licenses and Authorizations, Memorandum Opinion and Order, FCC 04-255 (rel. Oct. 26, 2004).

Spectrum Lease Associated with this License. See Spectrum Leasing Arrangement Letter dated 12/06/2004 and File # 0001918558.

The Spectrum Leasing Arrangement, which became effective upon approval of application file number 0001918558, was terminated on 04/14/2005. See file number 0002135370.

Commission approval of this application and the licenses contained therein are subject to the conditions set forth in the Memorandum Opinion and Order, adopted on December 29, 2006 and released on March 26, 2007, and revised in the Order on Reconsideration, adopted and released on March 26, 2007. See AT&T Inc. and BellSouth Corporation Application for Transfer of Control, WC Docket No. 06-74, Memorandum Opinion and Order, FCC 06-189 (rel. Mar. 26, 2007); AT&T Inc. and BellSouth Corporation, WC Docket No. 06-74, Order on Reconsideration, FCC 07-44 (rel. Mar. 26, 2007).

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**Federal Communications Commission**  
**Wireless Telecommunications Bureau**

**RADIO STATION AUTHORIZATION**

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: LESLIE WILSON  
 NEW CINGULAR WIRELESS PCS, LLC  
 208 S AKARD ST., RM 1016  
 DALLAS, TX 75202

<b>Call Sign</b> WQDI528	<b>File Number</b>
<b>Radio Service</b> CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

<b>Grant Date</b> 08-17-2015	<b>Effective Date</b> 06-14-2017	<b>Expiration Date</b> 09-06-2025	<b>Print Date</b>
<b>Market Number</b> BTA263	<b>Channel Block</b> C	<b>Sub-Market Designator</b> 7	
<b>Market Name</b> Louisville, KY			
<b>1st Build-out Date</b> 09-06-2010	<b>2nd Build-out Date</b>	<b>3rd Build-out Date</b>	<b>4th Build-out Date</b>

**Waivers/Conditions:**

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

**Conditions:**

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

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



**Federal Communications Commission  
Wireless Telecommunications Bureau**

**Spectrum Leasing Arrangement**

ATTN: REGINALD YOUNGBLOOD  
NEW CINGULAR WIRELESS PCS, LLC  
3300 E RENNER ROAD, B3132  
RICHARDSON, TX 75082

Date: 04/03/2018  
Reference Number:

This approval allows the Lessee to lease spectrum from the Licensee pursuant to the provisions and requirements of Subpart X of Part 1 of the Commission's Rules, 47 C.F.R. Part 1, and as described in the associated spectrum leasing application or notification.

Type of Lease Arrangement	Lease Term	Lease Identifier
Spectrum Manager Lease	Short Term	L000013756

Lease Grant/Accepted Date	Lease Commencement Date	Lease Expiration Date
11/07/2014	11/01/2014	09/15/2015

Call Sign	Radio Service
KNLG209	CW - PCS Broadband

**Lessee Information**

0003291192  
NEW CINGULAR WIRELESS PCS, LLC  
Attn: REGINALD YOUNGBLOOD  
3300 E RENNER ROAD, B3132  
RICHARDSON, TX 75082

**Licensee Information**

0003291192  
NEW CINGULAR WIRELESS PCS, LLC  
Attn: LESLIE WILSON  
208 S AKARD ST., RM 1016  
DALLAS, TX 75202

Geographically-Licensed Services		
Market Number	Market Name	Channel Block
BTA263	Louisville, KY	D

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

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



Federal Communications Commission  
Wireless Telecommunications Bureau

Spectrum Leasing Arrangement

ATTN: REGINALD YOUNGBLOOD  
NEW CINGULAR WIRELESS PCS LLC  
3300 E RENNER ROAD, B3132  
RICHARDSON, TX 75082

Date: 04/03/2018  
Reference Number:

This approval allows the Lessee to lease spectrum from the Licensee pursuant to the provisions and requirements of Subpart X of Part 1 of the Commission's Rules, 47 C.F.R. Part 1, and as described in the associated spectrum leasing application or notification.

Type of Lease Arrangement	Lease Term	Lease Identifier
Spectrum Manager Lease	Short Term	L000015162

Lease Grant/Accepted Date	Lease Commencement Date	Lease Expiration Date
03/13/2015	12/23/2014	04/30/2015

Call Sign	Radio Service
KNLG923	CW - PCS Broadband

**Lessee Information**

0003291192  
NEW CINGULAR WIRELESS PCS LLC  
Attn: REGINALD YOUNGBLOOD  
3300 E RENNER ROAD, B3132  
RICHARDSON, TX 75082

**Licensee Information**

0001832807  
POWERTEL MEMPHIS LICENSES, INC.  
Attn: FCC REGULATORY COMPLIANCE  
12920 SE 38TH ST.  
BELLEVUE, WA 98006

<b>Geographically-Licensed Services</b>		
<b>Market Number</b>	<b>Market Name</b>	<b>Channel Block</b>
BTA263	Louisville, KY	F

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

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

**EXHIBIT B**

**SITE DEVELOPMENT PLAN:**

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



# at&t

SITE NAME:

## WRIGHTS RIDGE

SITE NUMBER:

## KYL01212

PROPOSED RAW LAND SITE WITH A 255' SELF-SUPPORT TOWER WITH A 15' LIGHTNING ARRESTOR AND INSTALLATION OF AN 80" X 80" WALK-IN CABINET ON A PLATFORM & DIESEL GENERATOR ON A PLATFORM

SHEET INDEX	
T-1	TITLE SHEET & PROJECT INFORMATION
<b>SURVEY:</b>	
B-1	SITE SURVEY
B-1.1	SITE SURVEY
B-1.2	SITE SURVEY
B-1.3	SITE SURVEY
B-2	500' RADIUS AND ABUTTERS MAP
<b>CIVIL:</b>	
C-1	OVERALL SITE LAYOUT
C-2	OVERALL SITE LAYOUT -CONT'D
C-3	ENLARGED COMPOUND LAYOUT
C-4	TOWER ELEVATION

CONTACT INFORMATION	
<b>FIRE DEPARTMENT</b>	
CARROLLTON FIRE DEPARTMENT PHONE: (502) 732-7041	
<b>POLICE DEPARTMENT</b>	
CARROLL COUNTY SHERIFF'S DEPARTMENT PHONE: (502) 732-7010	
<b>ELECTRIC COMPANY</b>	
SHELBY ENERGY PHONE: (502) 255-3001	
<b>TELEPHONE COMPANY</b>	
AT&T PHONE: (800) 288-2020	

PREPARED BY:

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

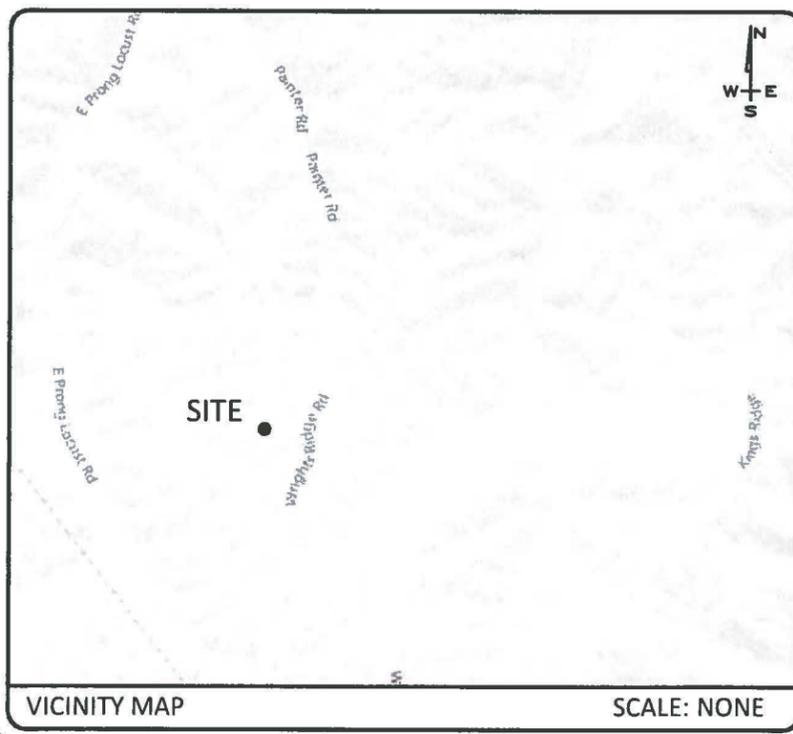
PREPARED FOR:

PREPARED FOR:

EN PERMIT: 3594

### ZONING DRAWINGS

REV	DATE	DESCRIPTION
A	3.9.18	ISSUED FOR REVIEW
0	4.2.18	ISSUED AS FINALS



DRIVE DIRECTIONS	
FROM CARROLL COUNTY CLERK, 440 MAIN ST, CARROLLTON, KY 41008.	
DEPART MAIN ST TOWARD 5TH ST	105 FEET
TURN RIGHT ONTO 5TH ST	482 FEET
TURN RIGHT ONTO US-42 / KY-36	1.8 MILES
KEEP STRAIGHT ONTO KY-36	1.6 MILES
TURN LEFT ONTO NOTCH LICK RD	0.9 MILES
TURN RIGHT ONTO WRIGHTS RIDGE RD	2.1 MILES
ARRIVE AT SITE, ON THE RIGHT	

PROJECT INFORMATION	
COUNTY:	CARROLL
SITE ADDRESS:	2126 WRIGHTS RIDGE ROAD MILTON, KY 40045
APPLICANT:	NEW CINGULAR WIRELESS PCS, LLC, A DELAWARE LIMITED LIABILITY COMPANY, D/B/A AT&T MOBILITY MEIDINGER TOWER 462 S. 4TH STREET, SUITE 2400 LOUISVILLE, KY 40202
LATITUDE:	38° 40' 25.13"
LONGITUDE:	85° 15' 33.67"

BUILDING CODES AND STANDARDS	
CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION FOR THE LOCATION.	
CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:	
•	AMERICAN CONCRETE INSTITUTE 318
•	AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION
•	TELECOMMUNICATIONS INDUSTRY ASSOCIATION TIA-222
•	STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND SUPPORTING STRUCTURES TIA-601
•	COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
•	INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS IEEE-81, IEEE 1100, IEEE C62.41
•	ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS -TELECOM, ENVIRONMENTAL PROTECTION
•	2014 KBC
•	2014 NEC
FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN.	

SCOPE OF WORK:	
ZONING DRAWINGS FOR: CONSTRUCTION OF A NEW UNMANNED TELECOMMUNICATIONS FACILITY.	
SITE WORK: NEW TOWER, UNMANNED WALK-IN CABINET ON A STEEL PLATFORM, GENERATOR ON A STEEL PLATFORM, AND UTILITY INSTALLATIONS.	

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

SITE INFORMATION:

**WRIGHTS RIDGE**  
2126 WRIGHTS RIDGE ROAD  
MILTON, KY 40045

CARROLL COUNTY

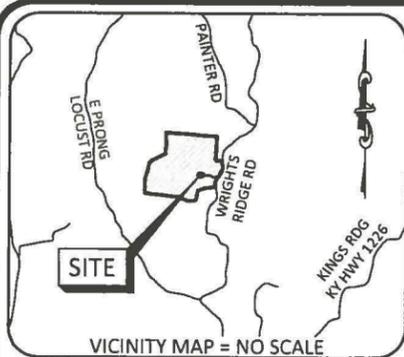
SITE NUMBER:  
KYL01212

POD NUMBER: 17-13278

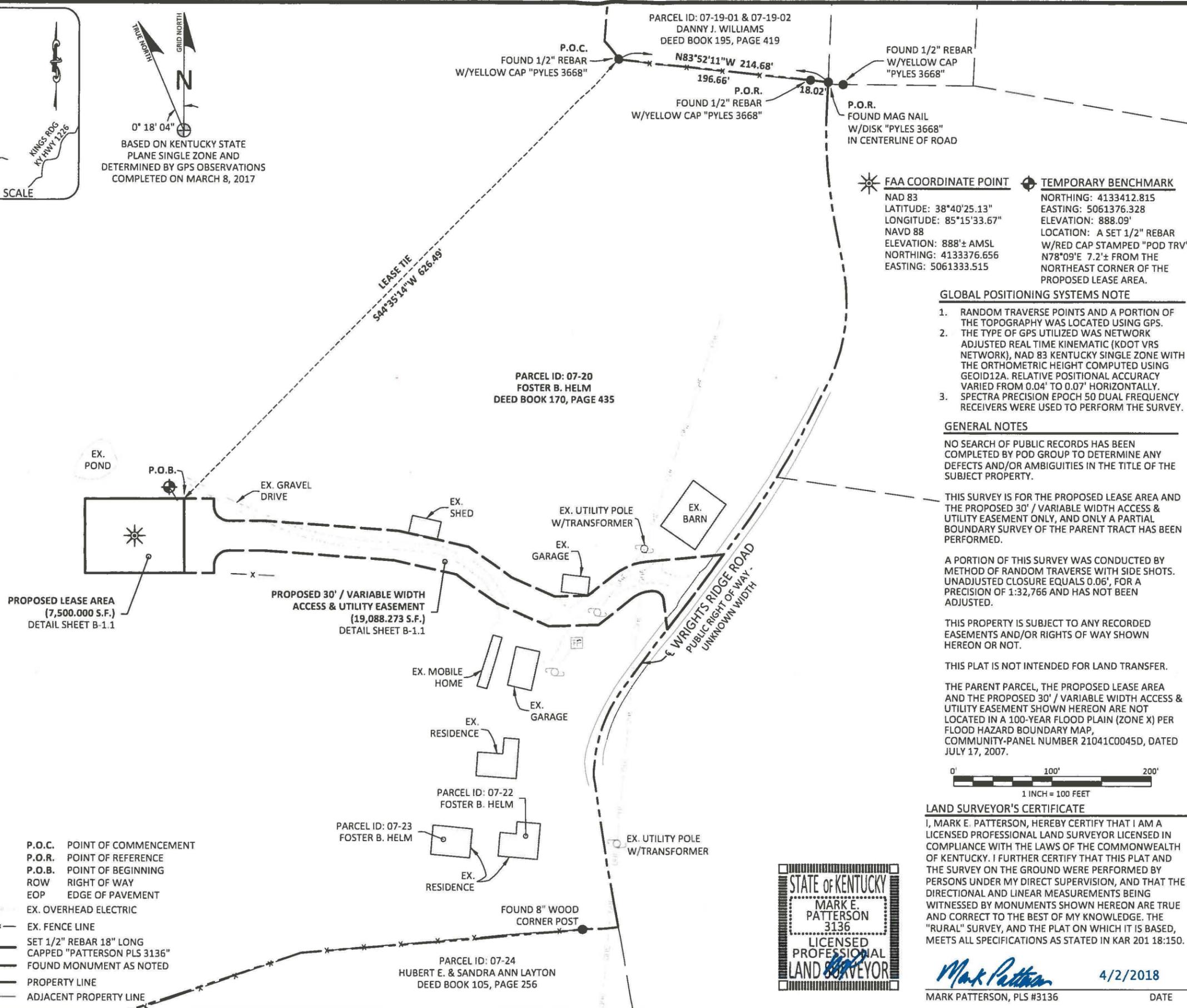
DRAWN BY: JRS  
CHECKED BY: MEP  
DATE: 3.9.18

SHEET TITLE:  
**TITLE SHEET & PROJECT INFORMATION**

SHEET NUMBER:  
**T-1**



0° 18' 04" TRUE NORTH  
 GRID NORTH  
 BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON MARCH 8, 2017



**FAA COORDINATE POINT**  
 NAD 83  
 LATITUDE: 38°40'25.13"  
 LONGITUDE: 85°15'33.67"  
 NAVD 88  
 ELEVATION: 888± AMSL  
 NORTHING: 4133376.656  
 EASTING: 5061333.515

**TEMPORARY BENCHMARK**  
 NORTHING: 4133412.815  
 EASTING: 5061376.328  
 ELEVATION: 888.09'  
 LOCATION: A SET 1/2" REBAR W/RED CAP STAMPED "POD TRV" N78°09'E 7.2± FROM THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA.

**GLOBAL POSITIONING SYSTEMS NOTE**

1. RANDOM TRAVERSE POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS.
2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.07' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.

**GENERAL NOTES**

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

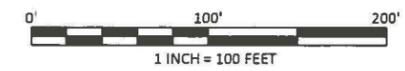
THIS SURVEY IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT ONLY, AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT TRACT HAS BEEN PERFORMED.

A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE EQUALS 0.06', FOR A PRECISION OF 1:32,766 AND HAS NOT BEEN ADJUSTED.

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

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

THE PARENT PARCEL, THE PROPOSED LEASE AREA AND THE PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN (ZONE X) PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21041C0045D, DATED JULY 17, 2007.



**LAND SURVEYOR'S CERTIFICATE**

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

MARK PATTERSON, PLS #3136  
 4/2/2018  
 DATE



PREPARED BY:  
  
 POWER OF DESIGN  
 11490 BLUEGRASS PARKWAY  
 LOUISVILLE, KY 40299  
 502.437.5252

PREPARED FOR:

PREPARED FOR:

**SURVEY**

REV	DATE	DESCRIPTION
A	4.1.17	PRELIM ISSUE W/TITLE
0	4.24.17	ISSUED AS FINAL

**SITE INFORMATION:**

**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045  
 CARROLL COUNTY

**TAX PARCEL NUMBER:**  
 07-20

**PROPERTY OWNER:**  
 FOSTER B. HELM  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045

**SOURCE OF TITLE:**  
 DEED BOOK 170, PAGE 435

**SITE NUMBER:**  
 KYL01212

**POD NUMBER:** 17-13280  
**DRAWN BY:** DAP  
**CHECKED BY:** MEP  
**SURVEY DATE:** 3.8.17  
**PLAT DATE:** 4.1.17

**SHEET TITLE:**  
 SITE SURVEY

**SHEET NUMBER:**  
 B-1

Know what's below.  
 Call before you dig.  
 Call Monday thru Friday - 7 am. to 6 pm.  
 1-800-752-6007

PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

**LEGEND**

	UTILITY POLE	P.O.C.	POINT OF COMMENCEMENT
	TELE PEDESTAL	P.O.R.	POINT OF REFERENCE
		P.O.B.	POINT OF BEGINNING
		ROW	RIGHT OF WAY
		EOP	EDGE OF PAVEMENT
	EX. OVERHEAD ELECTRIC		
	EX. FENCE LINE		
	SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"		
	FOUND MONUMENT AS NOTED		
	PROPERTY LINE		
	ADJACENT PROPERTY LINE		

**GLOBAL POSITIONING SYSTEMS NOTE**

1. RANDOM TRAVERSE POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS.
2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04" TO 0.07" HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.

**FAA COORDINATE POINT**  
 NAD 83  
 LATITUDE: 38°40'25.13"  
 LONGITUDE: 85°15'33.67"  
 NAVD 88  
 ELEVATION: 888± AMSL  
 NORTHING: 4133376.656  
 EASTING: 5061333.515

**TEMPORARY BENCHMARK**  
 NORTHING: 4133412.815  
 EASTING: 5061376.328  
 ELEVATION: 888.09'  
 LOCATION: A SET 1/2" REBAR W/RED CAP STAMPED "POD TRV" N78°09'E 7.2± FROM THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA.

0° 18' 04"  
 BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON MARCH 8, 2017

PREPARED BY:  
  
 POWER OF DESIGN  
 11490 BLUEGRASS PARKWAY  
 LOUISVILLE, KY 40299  
 502.437.5252

PREPARED FOR:  


PREPARED FOR:  


**SURVEY**

REV.	DATE	DESCRIPTION
A	4.1.17	PRELIM ISSUE W/ TITLE
0	4.24.17	ISSUED AS FINAL

**SITE INFORMATION:**

**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045  
 CARROLL COUNTY

**TAX PARCEL NUMBER:**  
 07-20

**PROPERTY OWNER:**  
 FOSTER B. HELM  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045

**SOURCE OF TITLE:**  
 DEED BOOK 170, PAGE 435

**SITE NUMBER:**  
 KYL01212

**POD NUMBER:** 17-13280  
**DRAWN BY:** DAP  
**CHECKED BY:** MEP  
**SURVEY DATE:** 3.8.17  
**PLAT DATE:** 4.1.17

**SHEET TITLE:**

**SITE SURVEY**

**SHEET NUMBER:**  
**B-1.1**

- LEGEND**
-  UTILITY POLE
  -  TELE PEDESTAL
  -  WATER SPIGOT
  -  P.O.C. POINT OF COMMENCEMENT
  -  P.O.R. POINT OF REFERENCE
  -  P.O.B. POINT OF BEGINNING
  -  ROW RIGHT OF WAY
  -  EOP EDGE OF PAVEMENT
  -  EX. OVERHEAD ELECTRIC
  -  EX. FENCE LINE
  -  SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
  -  FOUND MONUMENT AS NOTED
  -  PROPERTY LINE
  -  ADJACENT PROPERTY LINE

**GENERAL NOTES**

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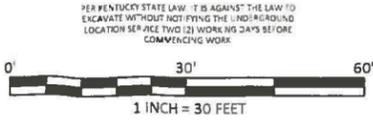
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PARCEL ID: 07-20  
 FOSTER B. HELM  
 DEED BOOK 170, PAGE 435



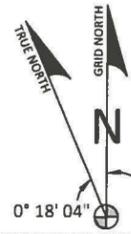
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**LAND SURVEYOR'S CERTIFICATE**

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

  
 MARK PATTERSON, PLS #3136  
 DATE: 4/2/2018



BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON MARCH 8, 2017

**FAA COORDINATE POINT**  
 NAD 83  
 LATITUDE: 38°40'25.13"  
 LONGITUDE: 85°15'33.67"  
 NAVD 88  
 ELEVATION: 888± AMSL  
 NORTHING: 4133376.656  
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**TEMPORARY BENCHMARK**  
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 ELEVATION: 888.09'  
 LOCATION: A SET 1/2" REBAR W/RED CAP STAMPED "POD TRV" N78°09'E 7.2± FROM THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA.

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

PREPARED FOR:  
**MasTec**

PREPARED FOR:  
**at&t**

**SURVEY**

REV	DATE	DESCRIPTION
A	4.1.17	PRELIM ISSUE W/ TITLE
D	4.24.17	ISSUED AS FINAL

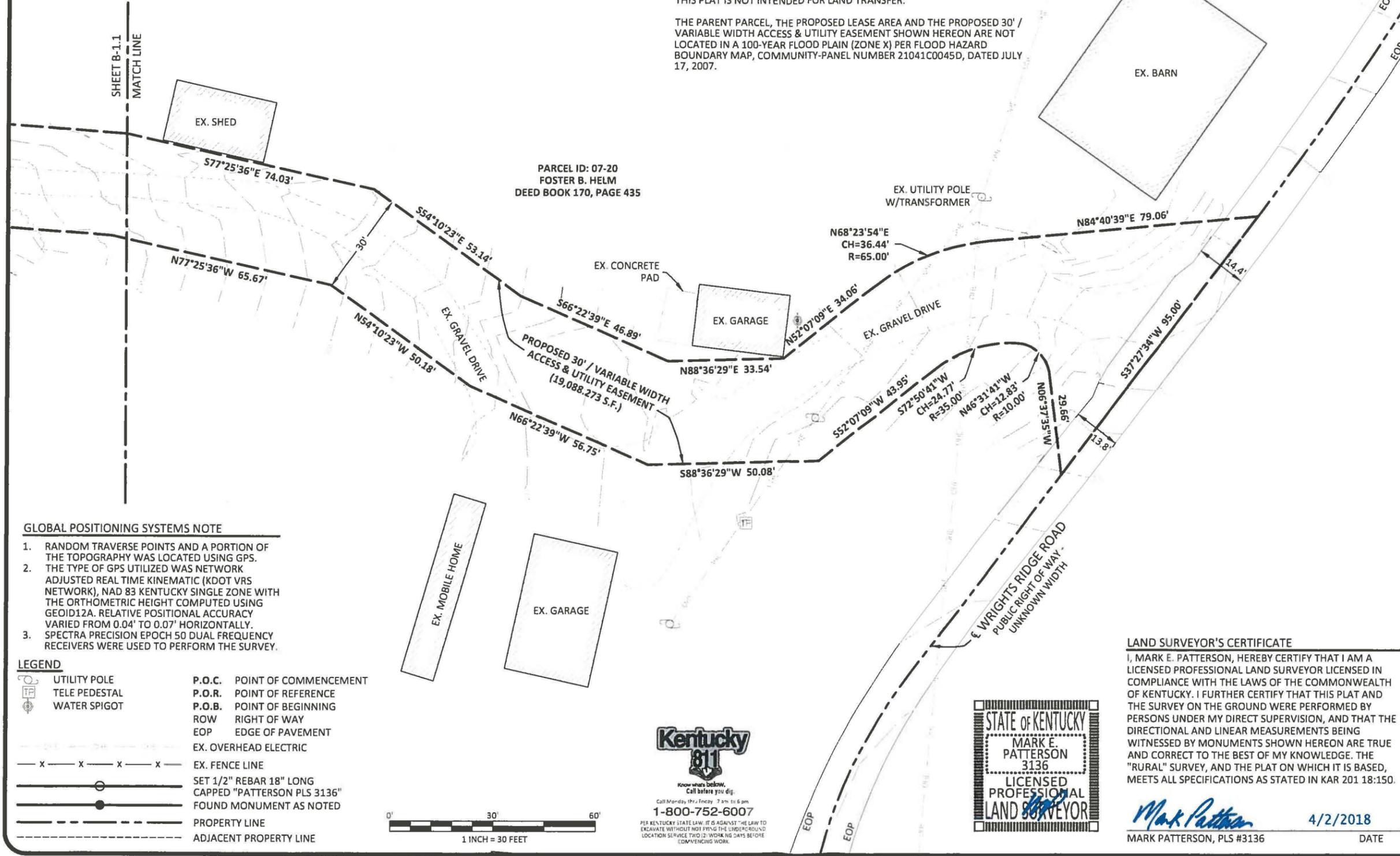
**SITE INFORMATION:**  
**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045  
 CARROLL COUNTY  
 TAX PARCEL NUMBER:  
 07-20  
 PROPERTY OWNER:  
 FOSTER B. HELM  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045  
 SOURCE OF TITLE:  
 DEED BOOK 170, PAGE 435

SITE NUMBER:  
 KYL01212

POD NUMBER: 17-13280  
 DRAWN BY: DAP  
 CHECKED BY: MEP  
 SURVEY DATE: 3.8.17  
 PLAT DATE: 4.1.17

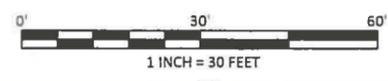
SHEET TITLE:  
**SITE SURVEY**

SHEET NUMBER:  
**B-1.2**



- GLOBAL POSITIONING SYSTEMS NOTE**
- RANDOM TRAVERSE POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS.
  - THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.04' TO 0.07' HORIZONTALLY.
  - SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.

- LEGEND**
- UTILITY POLE
  - TELE PEDESTAL
  - WATER SPIGOT
  - P.O.C. POINT OF COMMENCEMENT
  - P.O.R. POINT OF REFERENCE
  - P.O.B. POINT OF BEGINNING
  - ROW RIGHT OF WAY
  - EOP EDGE OF PAVEMENT
  - EX. OVERHEAD ELECTRIC
  - EX. FENCE LINE
  - SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
  - FOUND MONUMENT AS NOTED
  - PROPERTY LINE
  - ADJACENT PROPERTY LINE



**Kentucky 811**  
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STATE OF KENTUCKY  
**MARK E. PATTERSON**  
 3136  
 LICENSED PROFESSIONAL LAND SURVEYOR

**LAND SURVEYOR'S CERTIFICATE**  
 I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE. THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECIFICATIONS AS STATED IN KAR 201 18:150.  
  
 MARK PATTERSON, PLS #3136  
 DATE: 4/2/2018

**LEGAL DESCRIPTIONS**

**PROPOSED LEASE AREA**

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO FOSTER B. HELM AS RECORDED IN DEED BOOK 170, PAGE 435, PARCEL ID: 07-20, 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 MARCH 8, 2017.

COMMENCING AT A FOUND 1/2" REBAR WITH A YELLOW CAP STAMPED "PYLES 3668" IN THE COMMON BOUNDARY CORNER TO THE PROPERTY CONVEYED TO FOSTER B. HELM AS RECORDED IN DEED BOOK 170, PAGE 435, PARCEL ID: 07-20 AND BOUNDARY CORNER TO THE PROPERTY CONVEYED TO DANNY J. WILLIAMS AS RECORDED IN DEED BOOK 195, PAGE 419, FOR REFERENCE SAID REBAR IS N83°52'11"W 214.68' FROM A FOUND MAG NAIL WITH A DISK STAMPED "PYLES 3668" IN THE COMMON BOUNDARY CORNER TO SAID WILLIAMS AND HELM PROPERTY, ALSO BEING IN THE CENTERLINE OF WRIGHT RIDGE ROAD, SAID COMMENCEMENT POINT IS ALSO N83°52'11"W 196.66' FROM A FOUND 1/2" REBAR WITH A YELLOW CAP STAMPED "PYLES 3668" ALONG SAID COMMON LINE; THENCE LEAVING SAID COMMON BOUNDARY CORNER AND TRAVERSING THE LAND OF SAID HELM, S44°35'14"W 626.49' A SET 1/2" REBAR WITH CAP STAMPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A SET IPC, IN THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE S00°09'53"E 75.00' TO A SET IPC; THENCE S89°50'07"W 100.00' TO A SET IPC; THENCE N00°09'53"W 75.00' TO A SET IPC; THENCE N89°50'07"E 100.00' TO THE POINT OF BEGINNING CONTAINING 7,500.000 SQUARE FEET AS PER SURVEY BY MARK PATTERSON, PLS #3136 WITH POWER OF DESIGN GROUP, LLC DATED MARCH 8, 2017.

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

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO FOSTER B. HELM AS RECORDED IN DEED BOOK 170, PAGE 435, PARCEL ID: 07-20, 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 MARCH 8, 2017.

COMMENCING AT A FOUND 1/2" REBAR WITH A YELLOW CAP STAMPED "PYLES 3668" IN THE COMMON BOUNDARY CORNER TO THE PROPERTY CONVEYED TO FOSTER B. HELM AS RECORDED IN DEED BOOK 170, PAGE 435, PARCEL ID: 07-20 AND BOUNDARY CORNER TO THE PROPERTY CONVEYED TO DANNY J. WILLIAMS AS RECORDED IN DEED BOOK 195, PAGE 419, FOR REFERENCE SAID REBAR IS N83°52'11"W 214.68' FROM A FOUND MAG NAIL WITH A DISK STAMPED "PYLES 3668" IN THE COMMON BOUNDARY CORNER TO SAID WILLIAMS AND HELM PROPERTY, ALSO BEING IN THE CENTERLINE OF WRIGHT RIDGE ROAD, SAID COMMENCEMENT POINT IS ALSO N83°52'11"W 196.66' FROM A FOUND 1/2" REBAR WITH A YELLOW CAP STAMPED "PYLES 3668" ALONG SAID COMMON LINE; THENCE LEAVING SAID COMMON BOUNDARY CORNER AND TRAVERSING THE LAND OF SAID HELM, S44°35'14"W 626.49' A SET 1/2" REBAR WITH CAP STAMPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A SET IPC, IN THE NORTHEAST CORNER OF THE PROPOSED LEASE AREA AND BEING THE TRUE POINT OF BEGINNING; THENCE LEAVING SAID LEASE AREA, N89°50'07"E 30.00'; THENCE S00°09'53"E 7.50'; THENCE WITH THE CHORD OF A CURVE TO THE LEFT HAVING A RADIUS OF 15.00', S45°09'53"E 21.21'; THENCE N89°50'07"E 36.85'; THENCE S85°44'42"E 135.00'; THENCE S77°25'36"E 74.03'; THENCE S54°10'23"E 53.14'; THENCE S66°22'39"E 46.86'; THENCE N88°36'29"E 33.54'; THENCE N52°07'09"E 34.06'; THENCE WITH THE CHORD OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.00', N68°23'54"E 36.44'; THENCE N84°40'39"E 79.06' TO THE CENTERLINE OF WRIGHTS RIDGE ROAD AND THE EASTERLY BOUNDARY LINE OF SAID HELM PROPERTY; THENCE WITH SAID LINE, S37°27'34"W 95.00'; THENCE LEAVING SAID LINE AND TRAVERSING THE LAND OF HELM, N06°37'35"W 29.66'; THENCE WITH THE CHORD OF A CURVE TO THE LEFT HAVING A RADIUS OF 10.00', N46°31'41"W 12.83'; THENCE WITH THE CHORD OF A COMPOUND CURVE TO THE LEFT HAVING A RADIUS OF 35.00', S72°50'41"W 24.77'; THENCE S52°07'09"W 43.95'; THENCE S88°36'29"W 50.08'; THENCE N66°22'39"W 56.75'; THENCE N54°10'23"W 50.18'; THENCE N77°25'36"W 65.67'; THENCE N85°44'42"W 131.66'; THENCE S89°50'07"W 35.70'; THENCE WITH THE CHORD OF A CURVE TO THE LEFT HAVING A RADIUS OF 15.00', S44°50'07"W 21.21'; THENCE S00°09'53"E 7.50'; THENCE S89°50'07"W 30.00' TO A SET IPC IN THE SOUTHEAST CORNER OF SAID LEASE AREA; THENCE WITH SAID LEASE AREA, N00°09'53"W 75.00' TO THE POINT OF BEGINNING CONTAINING 19,088.273 SQUARE FEET AS PER SURVEY BY MARK PATTERSON, PLS #3136 WITH POWER OF DESIGN GROUP, LLC DATED MARCH 8, 2017.

**PARENT PARCEL - LEGAL DESCRIPTION - DEED BOOK 170, PAGE 435 (NOT FIELD SURVEYED)**

BEGINNING AT A STONE AT THE END OF A STONE FENCE CORNER TO R. B. TAYLOR; THENCE N. 8 1/2 E. 18 POLES TO AN ASH; THENCE N. 71 1/2 E. 19 POLES TO A DOUBLE LOCUST STUMP; THENCE N. 87 3/4 E. 16.5 POLES TO A POINT IN THE CENTER OF WRIGHTS ROAD; THENCE FOLLOWING THE CENTER OF THE ROAD N. 6 1/4 W. 12 POLES N. 35 3/4 E. 20 POLES N. 28 E. 9 POLES N. 4 1/2 W. 15.6 POLES TO A POINT IN THE CENTER OF THE ROAD TO GOBEL SIMMONDS AND CLARENCE HUDSON; THENCE LEAVING THE ROAD N. 85 W. 13.8 POLES TO A LOCUST STUMP; THENCE N. 2 1/4 E. 48 POLES TO A STONE CORNER TO JAS. EGGERTON AND JOHN THOMPSON FARM; THENCE N. 86 1/2 W. 98 POLES TO A STONE CORNER TO THOMPSON AND MOSE JENKINS; THENCE S. 2 E. 22.5 POLES, S. 8 1/2 W. 25.5 POLES TO A DOUBLE WALNUT ON SOUTH SIDE OF BRANCH; THENCE S. 70 W. 18 POLES, S. 64 1/2 W. 15 POLES, S. 38 W. 9 POLES, S. 18 1/2 W. 29 POLES, S. 6 1/2 W. 30 POLES TO AN ASH CORNER TO JENKINS AND R. B. TAYLOR; THENCE S. 86 1/2 E. 109.5 POLES TO THE BEGINNING, CONTAINING 94.4 ACRES.

**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 STEWART TITLE GUARANTY COMPANY, FOR THE BENEFIT OF AT&T MOBILITY, FILE NO. 00300-20170038, EFFECTIVE DATE OF JANUARY 24, 2017 AT 8:00 AM. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID REPORT.

**SCHEDULE B**

1. DEFECTS, LIENS, ENCUMBRANCES, ADVERSE CLAIMS OR OTHER MATTERS, IF ANY, CREATED, FIRST APPEARING IN THE PUBLIC RECORDS OR ATTACHING SUBSEQUENT TO THE EFFECTIVE DATE BUT PRIOR TO THE DATE THE PROPOSED INSURED ACQUIRES FOR VALUE OF RECORD THE ESTATE OR INTEREST OR MORTGAGE THEREON COVERED BY THIS COMMITMENT (POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
2. RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS (POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
3. EASEMENTS OR CLAIMS OF EASEMENTS, NOT SHOWN BY THE PUBLIC RECORDS (POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
4. ENCROACHMENTS, OVERLAPS, BOUNDARY LINE DISPUTES, OR OTHER MATTERS WHICH WOULD BE DISCLOSED BY AN ACCURATE SURVEY AND INSPECTION OF THE PREMISES. (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY, THEREFORE WE DID NOT ADDRESS THIS ITEM.)
5. ANY LIEN OR RIGHT TO A LIEN, FOR SERVICES, LABOR, OR MATERIAL HERETOFORE OR HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORDS (POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
6. SUBJECT TO 2017 TAXES, WHICH ARE NOT YET DUE AND PAYABLE (IF APPLICABLE). (POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
7. RIGHT OF WAY EASEMENT DATED MARCH 29, 2000, TO SHELBY ENERGY COOPERATIVE, INCORPORATED, OF RECORD IN DEED BOOK D143, PAGE 329, IN THE OFFICE AFORESAID (EASEMENT AS RECORDED IN D.B. 143, PG. 329 AFFECTS THE PARENT PARCEL BUT CANNOT BE PLOTTED PER DEED. ABOVE GROUND PHYSICAL EVIDENCE LOCATED AT THE TIME OF THE SURVEY ON THE GROUND MAY BE THE EASEMENT AS DESCRIBED IN D143, PAGE 329. EASEMENT MAY AFFECT THE PROPOSED ACCESS AND UTILITY EASEMENT, BUT WILL NOT AFFECT THE PROPOSED LEASE AREA.)
8. RIGHT-OF-WAY EASEMENT DATED NOVEMBER 26, 1974, TO SOUTH CENTRAL BELL TELEPHONE COMPANY, OF RECORD IN DEED BOOK D79, PAGE 484, IN THE OFFICE AFORESAID (EASEMENT AS RECORDED IN D.B. 79, PG. 484, AFFECTS THE PARENT PARCEL BUT CANNOT BE PLOTTED PER DEED. ABOVE GROUND PHYSICAL EVIDENCE LOCATED AT THE TIME OF THE SURVEY ON THE GROUND MAY BE THE EASEMENT AS DESCRIBED IN D.B. 79, PAGE 484. EASEMENT MAY AFFECT THE PROPOSED ACCESS AND UTILITY EASEMENT, BUT WILL NOT AFFECT THE PROPOSED LEASE AREA.)
9. MINERALS OF WHATSOEVER KIND, SUBSURFACE AND SURFACE SUBSTANCES, INCLUDING BUT NOT LIMITED TO COAL, LIGNITE, OIL, GAS, URANIUM, CLAY, ROCK, SAND AND GRAVEL IN, ON, UNDER AND THAT MAY BE PRODUCED FROM THE LAND, TOGETHER WITH ALL RIGHTS, PRIVILEGES, AND IMMUNITIES RELATING THERETO, WHETHER OR NOT APPEARING IN THE PUBLIC RECORDS OR LISTED IN SCHEDULE B. THE COMPANY MAKES NO REPRESENTATION AS TO THE PRESENT OWNERSHIP OF ANY SUCH INTERESTS. THERE MAY BE LEASES, GRANTS, EXCEPTIONS OR RESERVATIONS OF INTERESTS THAT ARE NOT LISTED (POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)

PREPARED BY:  
  
 11490 BLUEGRASS PARKWAY  
 LOUISVILLE, KY 40299  
 502 437 5252

PREPARED FOR:  


PREPARED FOR:  


**SURVEY**

REV.	DATE	DESCRIPTION
A	4.1.17	PRELIM ISSUE W/ TITLE
0	4.24.17	ISSUED AS FINAL

SITE INFORMATION:

**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045  
 CARROLL COUNTY

TAX PARCEL NUMBER:  
 07-20

PROPERTY OWNER:  
 FOSTER B. HELM  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045

SOURCE OF TITLE:  
 DEED BOOK 170, PAGE 435

SITE NUMBER:  
 KYL01212

POD NUMBER: 17-13280  
 DRAWN BY: DAP  
 CHECKED BY: MEP  
 SURVEY DATE: 3.8.17  
 PLAT DATE: 4.1.17

SHEET TITLE:  
**SITE SURVEY**

SHEET NUMBER:  
**B-1.3**

**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.

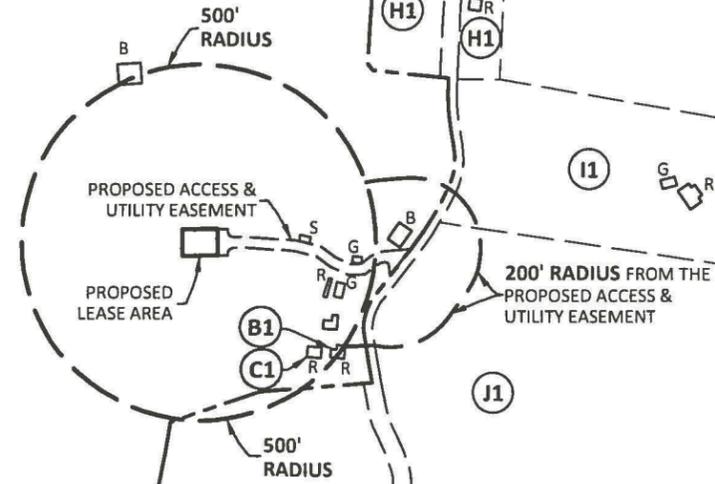


*Mark Patterson* 4/2/2018  
 MARK PATTERSON, PLS #3136 DATE

- (A1)** PARCEL ID: 07-20  
HELM FOSTER B  
2126 WRIGHTS RIDGE RD  
MILTON, KY 40045
- (B1)** PARCEL ID: 07-22  
HELM FOSTER B  
2126 WRIGHTS RIDGE  
MILTON, KY 40045
- (C1)** PARCEL ID: 07-23  
HELM FOSTER B  
2126 WRIGHTS RIDGE RD  
MILTON, KY 40045
- (D1)** PARCEL ID: 07-24  
LAYTON HUBERT E &  
SANDRA ANN  
2324 WRIGHTS RIDGE  
MILTON, KY 40045
- (E1)** PARCEL ID: 07-06  
THOMPSON ANITA &  
ANDREA LAUREN  
1241 BELMAR DR  
LOUISVILLE, KY 40213
- (F1)** PARCEL ID: 07-15  
KEITH CYNTHIA L  
1050 PAINTER RD  
MILTON, KY 40045
- (G1)** PARCEL ID: 07-19  
CUNDIFF MICHAEL Y JR  
1903 MCCORD LN  
MILTON, KY 40045
- (H1)** PARCEL ID: 07-19-01 & 07-19-02  
WILLIAMS DANNY J  
1911 WRIGHTS RIDGE RD  
MILTON, KY 40045
- (I1)** PARCEL ID: 07-18-01-01  
HARSIN COREY & TARA  
2001 WRIGHTS RIDGE RD  
MILTON, KY 40045
- (J1)** PARCEL ID: 07-21  
HARSIN DENNIS & DEBRA  
1214 WRIGHTS RIDGE  
MILTON, KY 40045

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

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



- GENERAL NOTE:**
1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CARROLL COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON MARCH 8, 2017 AND RE-VERIFIED ON FEBRUARY 23, 2018. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
  2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
  3. NOT FOR RECORDING OR PROPERTY TRANSFER.

**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* 4/2/2018  
 MARK PATTERSON, PLS #3136      DATE

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

PREPARED FOR:  
**MasTec**

PREPARED FOR:  
**at&t**

**EXHIBIT**

REV	DATE	DESCRIPTION
A	2.23.18	ISSUED FOR REVIEW
D	4.2.18	ISSUED AS FINAL

**SITE INFORMATION:**

**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045  
 CARROLL COUNTY

**TAX PARCEL NUMBER:**  
 07-20

**PROPERTY OWNER:**  
 FOSTER B. HELM  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045

**SOURCE OF TITLE:**  
 DEED BOOK 170, PAGE 435

**SITE NUMBER:**  
 KYL01212

**POD NUMBER:** 17-13279  
**DRAWN BY:** DAP  
**CHECKED BY:** MEP  
**SURVEY DATE:** 3.8.17  
**PLAT DATE:** 2.23.18

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

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



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

PREPARED FOR:  
**MasTec**

PREPARED FOR:  
**at&t**

STATE OF KENTUCKY  
 MARK E. PATTERSON  
 16,300  
 PROFESSIONAL ENGINEER  
 4/2/2018

EN PERMIT: 3594

**ZONING DRAWINGS**

REV	DATE	DESCRIPTION
A	3.9.18	ISSUED FOR REVIEW
D	4.2.18	ISSUED AS FINALS

SITE INFORMATION:

**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045

CARROLL COUNTY

SITE NUMBER:  
 KYL01212

POD NUMBER: 17-13278

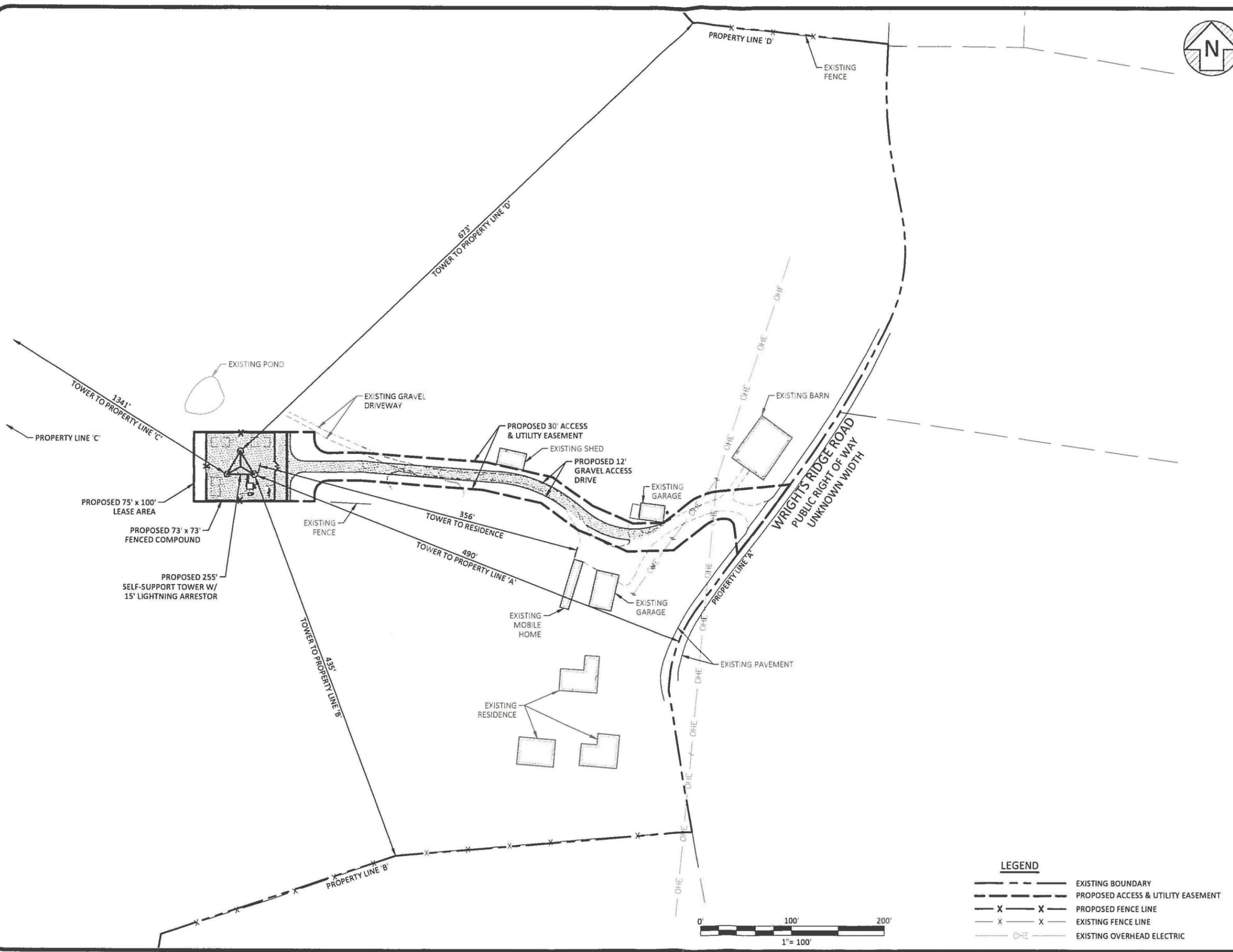
DRAWN BY: JRS  
 CHECKED BY: MEP  
 DATE: 3.9.18

SHEET TITLE:

**OVERALL SITE LAYOUT**

SHEET NUMBER:

**C-1**



**LEGEND**

	EXISTING BOUNDARY
	PROPOSED ACCESS & UTILITY EASEMENT
	PROPOSED FENCE LINE
	EXISTING FENCE LINE
	EXISTING OVERHEAD ELECTRIC



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

PREPARED FOR:  
**MasTec**

PREPARED FOR:  
 at&t

STATE OF KENTUCKY  
 MARK E. PATTERSON  
 16,308  
 PROFESSIONAL ENGINEER  
 4/2/2018  
 EN PERMIT: 3594

**ZONING DRAWINGS**

REV	DATE	DESCRIPTION
A	3.9.18	ISSUED FOR REVIEW
D	4.2.18	ISSUED AS FINALS

SITE INFORMATION:

**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045

CARROLL COUNTY

SITE NUMBER:  
 KYL01212

POD NUMBER: 17-13278

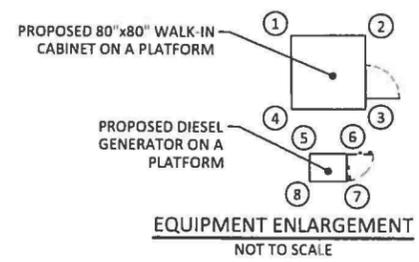
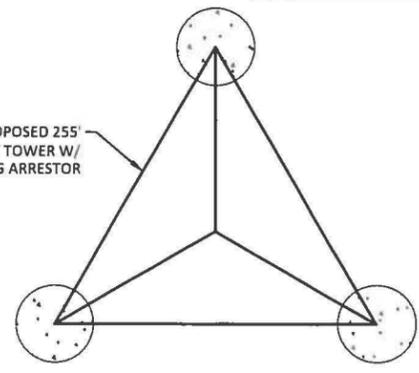
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 CHECKED BY: MEP  
 DATE: 3.9.18

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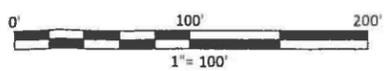
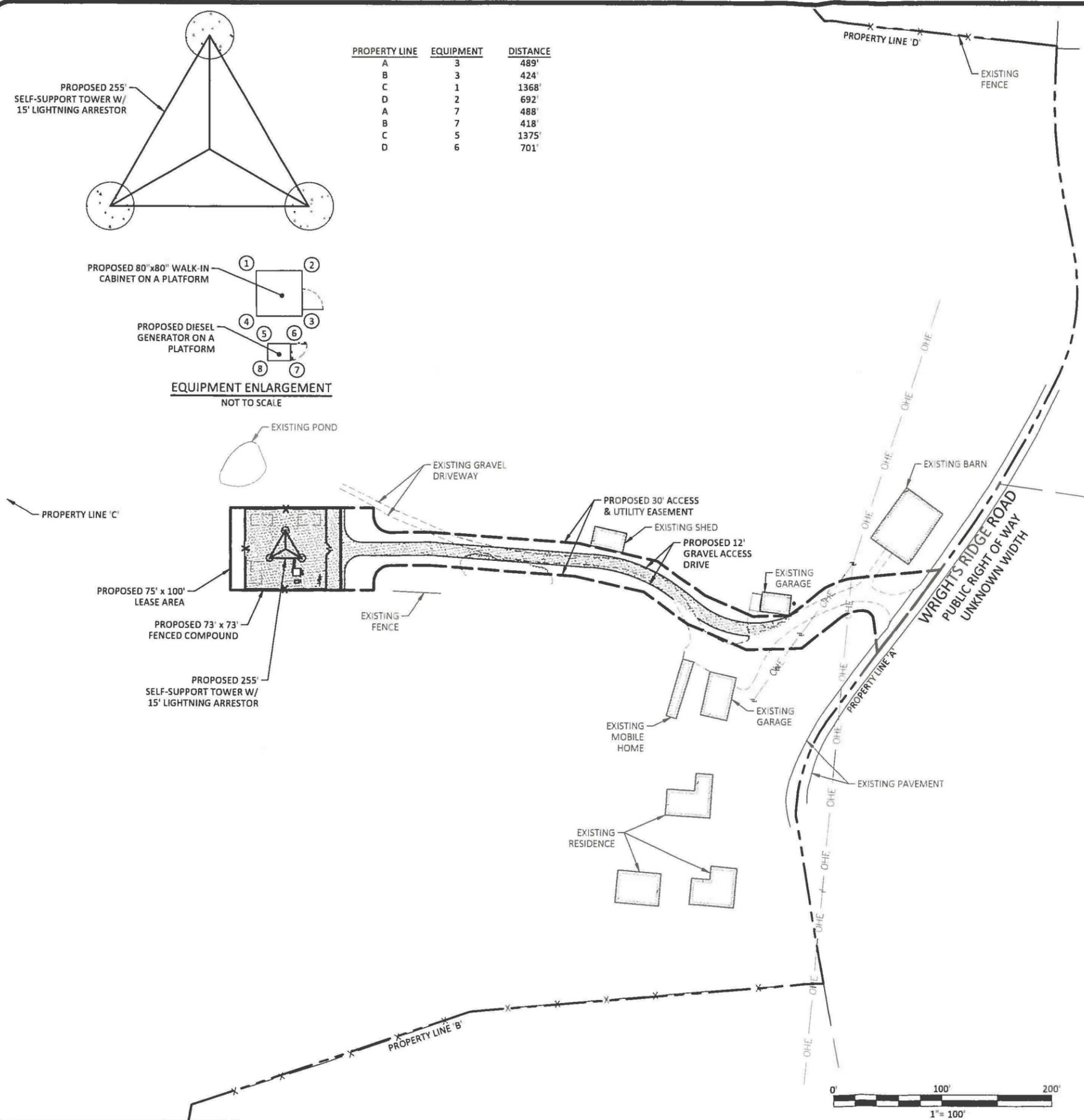
**OVERALL SITE LAYOUT -CONT'D**

SHEET NUMBER:  
**C-2**

PROPERTY LINE	EQUIPMENT	DISTANCE
A	3	489'
B	3	424'
C	1	1368'
D	2	692'
A	7	488'
B	7	418'
C	5	1375'
D	6	701'



**EQUIPMENT ENLARGEMENT**  
 NOT TO SCALE



**LEGEND**

	EXISTING BOUNDARY
	PROPOSED ACCESS & UTILITY EASEMENT
	PROPOSED FENCE LINE
	EXISTING FENCE LINE
	EXISTING OVERHEAD ELECTRIC



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

PREPARED FOR:  
**MasTec**

PREPARED FOR:  
**at&t**

STATE OF KENTUCKY  
 MARK E. PATTERSON  
 16,300  
 PROFESSIONAL ENGINEER  
 7/2/2018  
 EN PERMIT: 3594

**ZONING DRAWINGS**

REV	DATE	DESCRIPTION
A	3.9.18	ISSUED FOR REVIEW
D	4.2.18	ISSUED AS FINALS

SITE INFORMATION:

**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045

CARROLL COUNTY

SITE NUMBER:  
 KYL01212

POD NUMBER: 17-13278

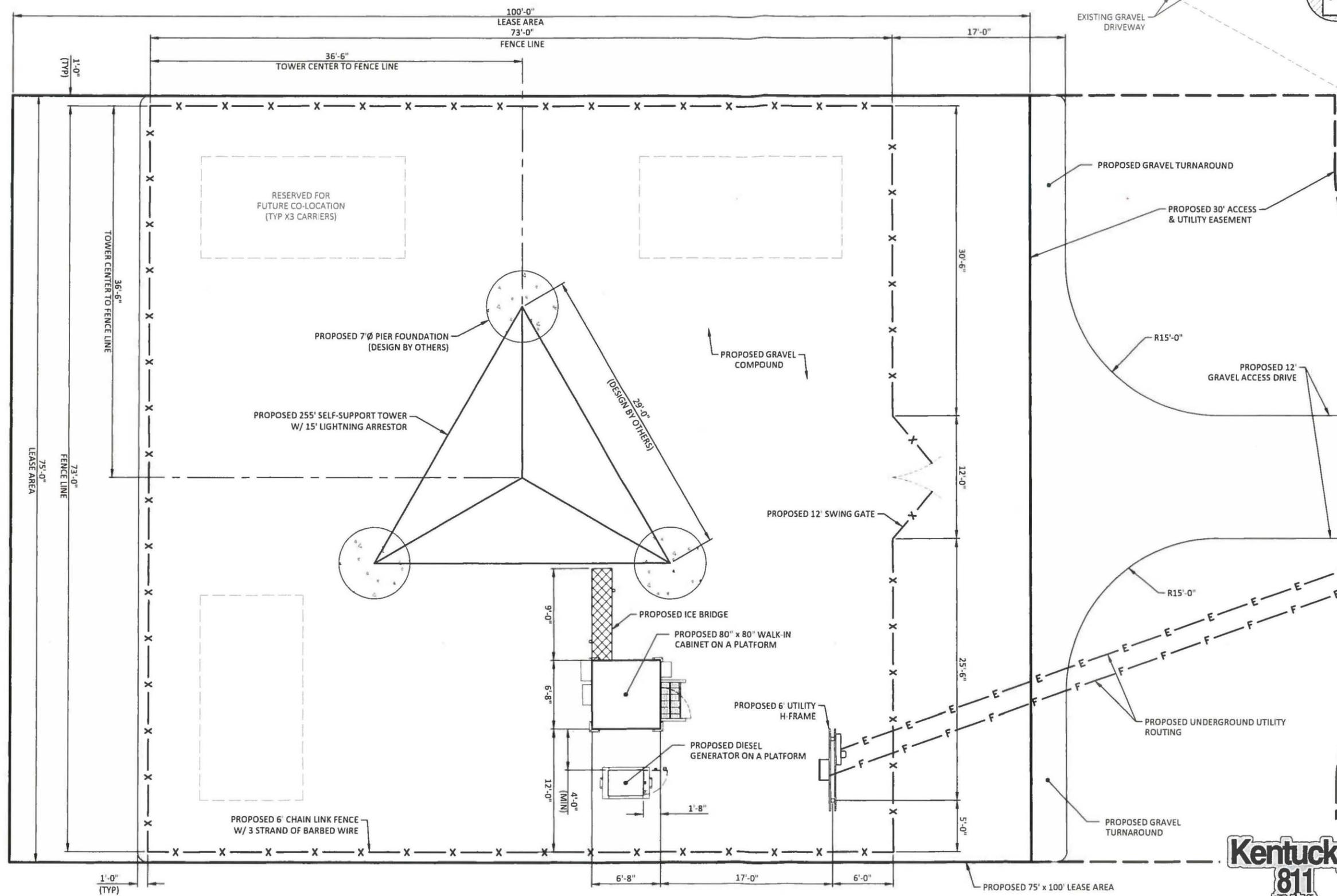
DRAWN BY: JRS  
 CHECKED BY: MEP  
 DATE: 3.9.18

SHEET TITLE:

**ENLARGED COMPOUND LAYOUT**

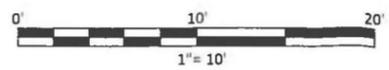
SHEET NUMBER:

**C-3**



**LEGEND**

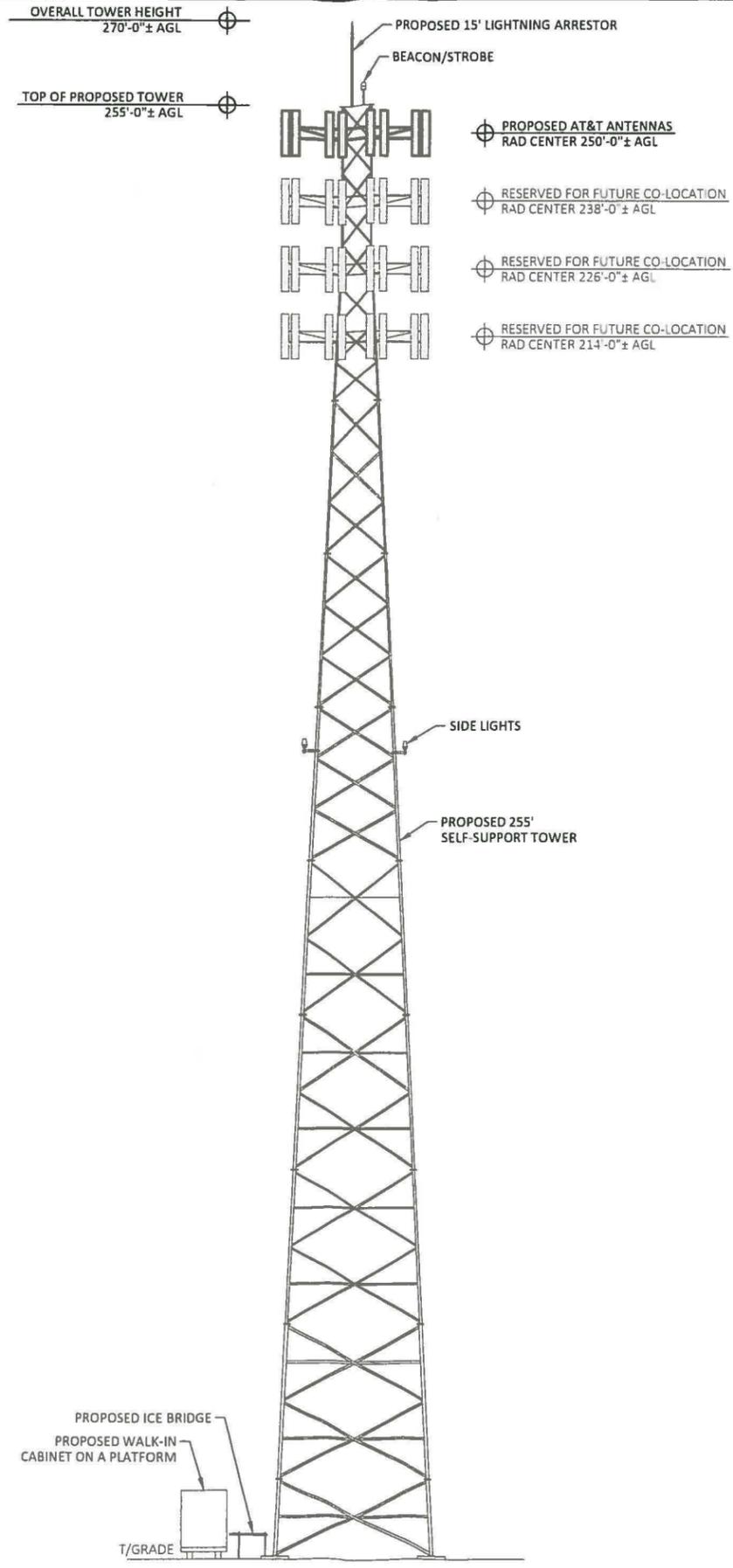
---	PROPOSED ACCESS & UTILITY EASEMENT
X-X	PROPOSED FENCE
E-E	PROPOSED UNDERGROUND ELECTRIC
F-F	PROPOSED UNDERGROUND FIBER



PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK

**TOWER NOTES:**

1. THE PROPOSED TOWER, FOUNDATION, ANTENNA MOUNTS, AND ANTENNAS WERE DESIGNED BY OTHERS.
2. THE TOWER ELEVATION SHOWN IS FOR REFERENCE ONLY.
3. SEE TOWER MANUFACTURER'S DRAWINGS FOR TOWER AND FOUNDATION DETAILS & SPECIFICATIONS.
4. MANUFACTURER'S DRAWINGS SUPERCEDE A&E DRAWINGS.



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

PREPARED FOR:  
**MasTec**

PREPARED FOR:  
**at&t**

STATE OF KENTUCKY  
 MARK E. PATTERSON  
 16,300  
 PROFESSIONAL ENGINEER  
 4/2/2018  
 EN PERMIT: 3594

**ZONING DRAWINGS**

REV	DATE	DESCRIPTION
A	3.9.18	ISSUED FOR REVIEW
0	4.2.18	ISSUED AS FINALS

SITE INFORMATION:  
**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045  
 CARROLL COUNTY  
 SITE NUMBER:  
 KYL01212

POD NUMBER: 17-13278  
 DRAWN BY: JRS  
 CHECKED BY: MEP  
 DATE: 3.9.18

SHEET TITLE:  
**TOWER ELEVATION**

SHEET NUMBER:  
**C-4**

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



**Structural Design Report**

255' S3TL Series HD1 Self-Supporting Tower

Site: Wright's Ridge, KY

Site Number: KYL01212

Prepared for: AT&T  
by: Sabre Towers & Poles™

Job Number: 405147

March 27, 2018

Tower Profile.....	1-2
Foundation Design Summary (Option 1).....	3
Foundation Design Summary (Option 2).....	4
Maximum Leg Loads.....	5
Maximum Diagonal Loads.....	6
Maximum Foundation Loads.....	7
Calculations.....	8-23





**Designed Appurtenance Loading**

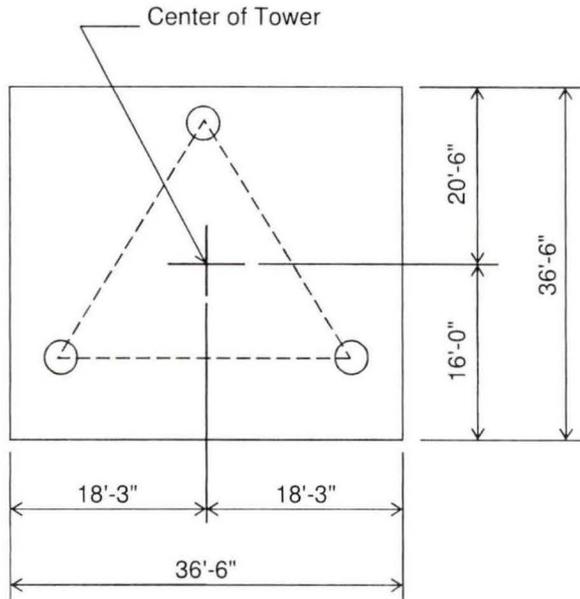
Elev	Description	Tx-Line
260	(1) Extendible Lightning Rod	
250	(1) 278 sq. ft. EPA 6000# (no ice)	(18) 1 5/8"
238	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"

Elev	Description	Tx-Line
226	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"
214	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"

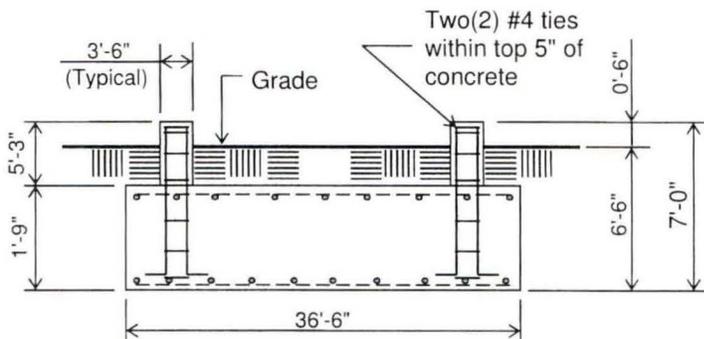
 <p><b>Sabre Industries</b> Towers and Poles</p>	<p>Sabre Communications Corporation 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 250-8900 Fax: (712) 278-0814</p>	<p>Job: 405147</p>
	<p>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 590 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.</p>	<p>Customer: AT&amp;T</p>
		<p>Site Name: Wright's Ridge, KY KYL01212</p>
		<p>Description: 255' S3TL</p>
		<p>Date: 3/27/2018 By: REB</p>

**Customer: AT&T**  
**Site: Wright's Ridge, KY KYL01212**

255 ft. Model S3TL Series HD1 Self Supporting Tower At  
89 mph Wind with no ice and 30 mph Wind with 0.75 in. Ice per ANSI/TIA-222-G.



**PLAN VIEW**



**ELEVATION VIEW**

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

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

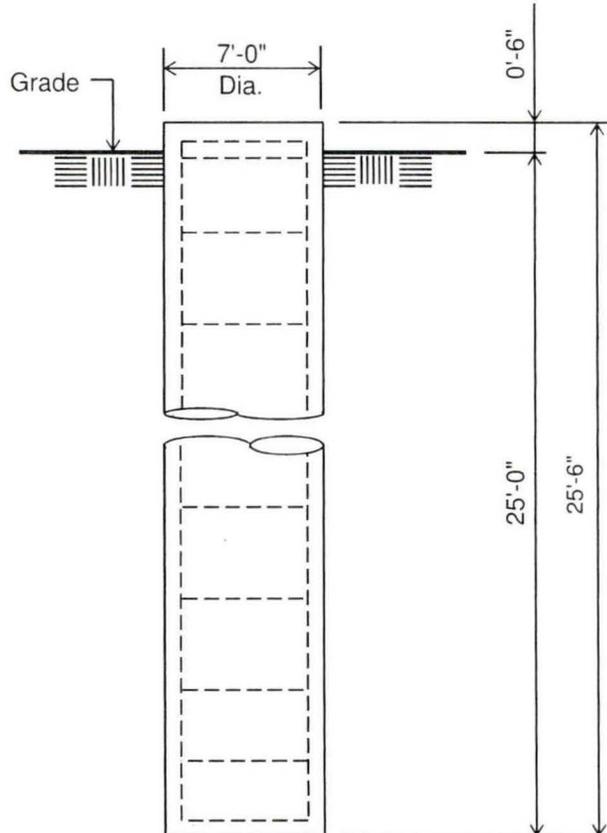
**Notes:**

- 1). Concrete shall have a minimum 28-day compressive strength of 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 POD job number: 17-13276, dated: 3/8/18
- 6). See the geotechnical report for compaction requirements, if specified.
- 7). The foundation is based on the following factored loads:  
Factored download (kips) = 100.36  
Factored overturn (kip-ft) = 15202.48  
Factored shear (kips) = 96.52
- 8). 4.75 ft of soil cover is required over the entire area of the foundation slab.

Rebar Schedule per Mat and per Pier	
Pier	(16) #9 vertical rebar w/ hooks at bottom w/ #4 Rebar ties, two (2) within top 5" of pier then 11" C/C
Mat	(61) #11 horizontal rebar evenly spaced each way top and bottom. (244 total)

**Customer: AT&T**  
**Site: Wright's Ridge, KY KYL01212**

255 ft. Model S3TL Series HD1 Self Supporting Tower At  
89 mph Wind with no ice and 30 mph Wind with 0.75 in. Ice per ANSI/TIA-222-G.



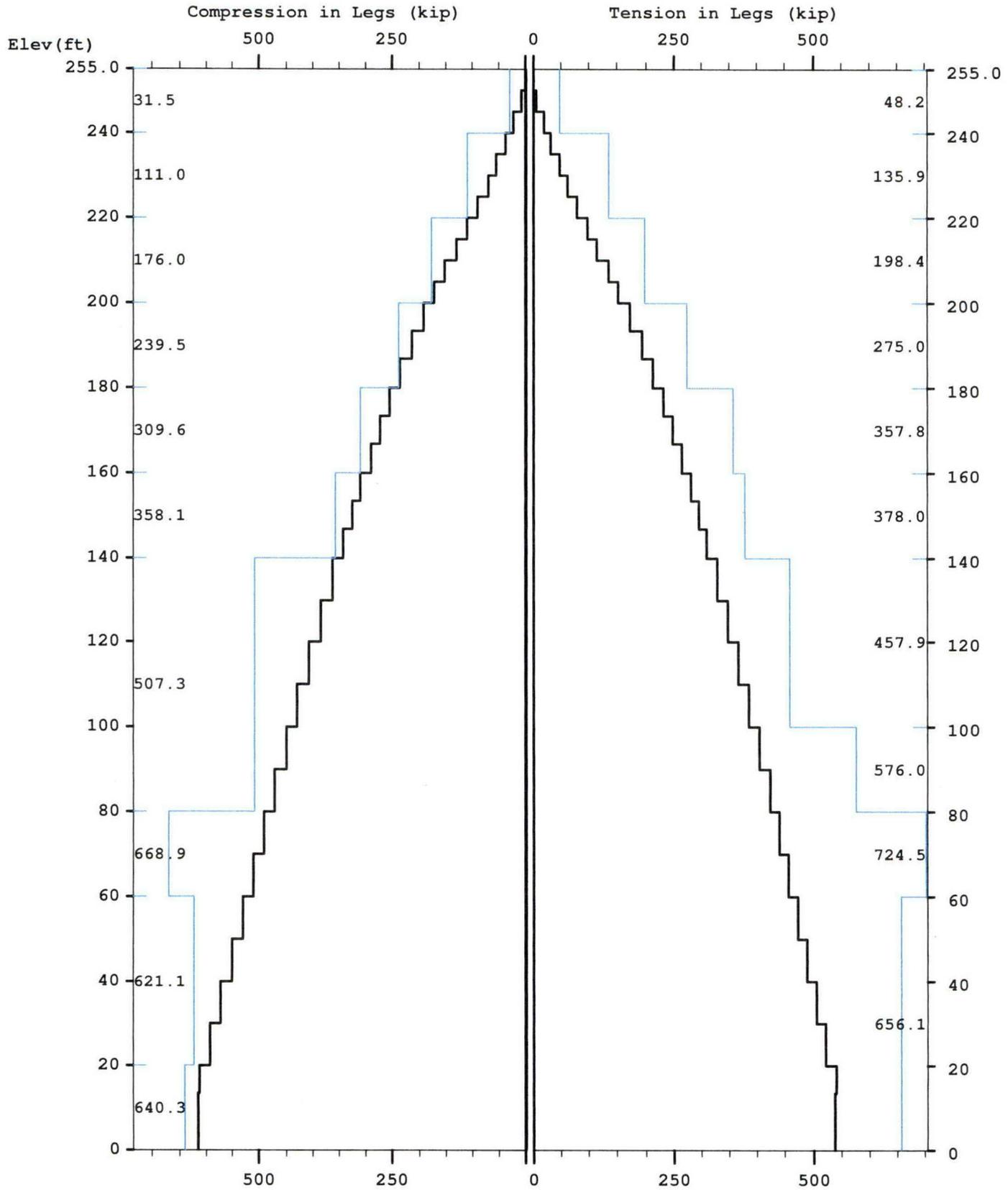
**ELEVATION VIEW**  
(36.35 Cu. Yds. each)  
(3 REQUIRED; NOT TO SCALE)

**Notes:**

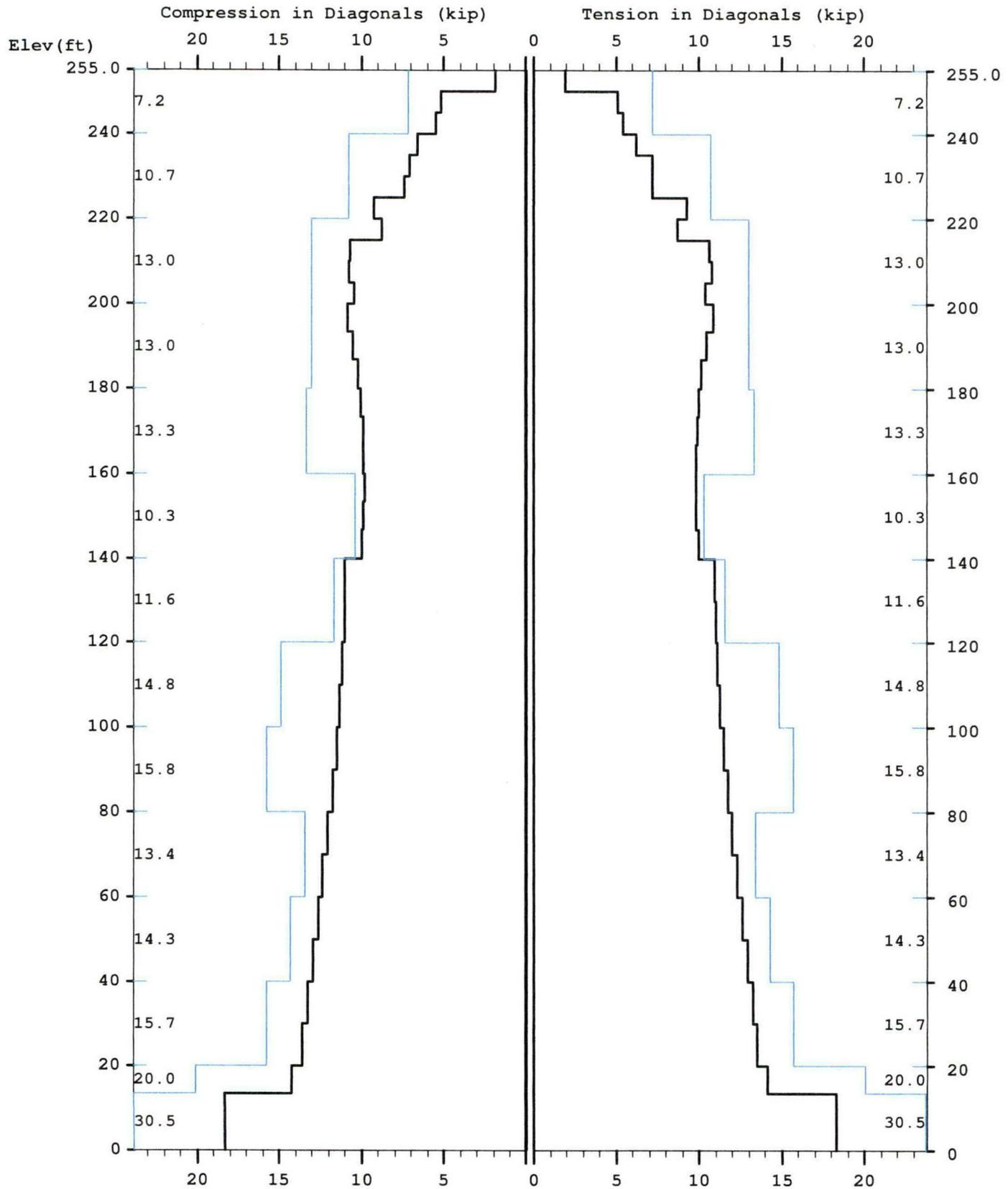
- 1). Concrete shall have a minimum 28-day compressive strength of 4500 PSI, in accordance with ACI 318-11.
- 2). Rebars to conform to ASTM specification A615 Grade 60.
- 3). All rebar to have a minimum of 3" concrete cover.
- 4). All exposed concrete corners to be chamfered 3/4".
- 5). The foundation design is based on the geotechnical report by POD job number: 17-13276, dated: 3/8/18
- 6). See the geotechnical report for drilled pier installation requirements, if specified.
- 7). The foundation is based on the following factored loads:  
Factored uplift (kips) = 560  
Factored download (kips) = 639  
Factored shear (kips) = 59

Rebar Schedule per Pier	
Pier	(36) #8 vertical rebar w/#5 ties, two (2) within top 5" of pier then 12" C/C

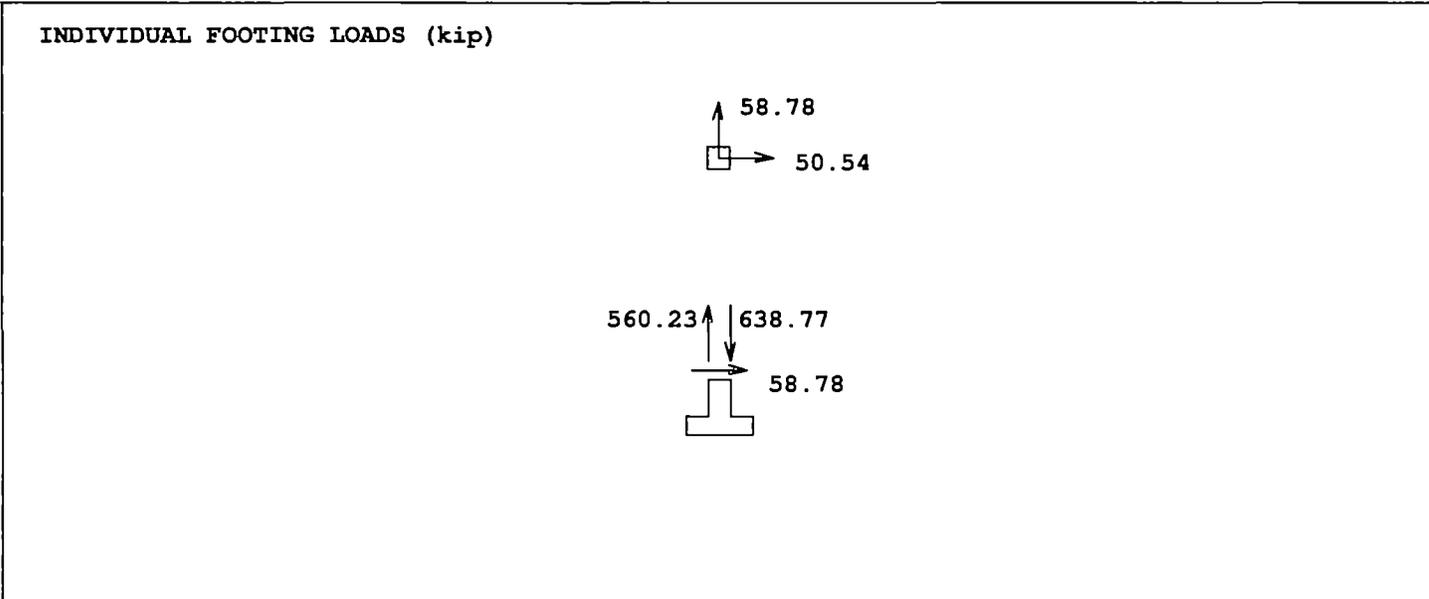
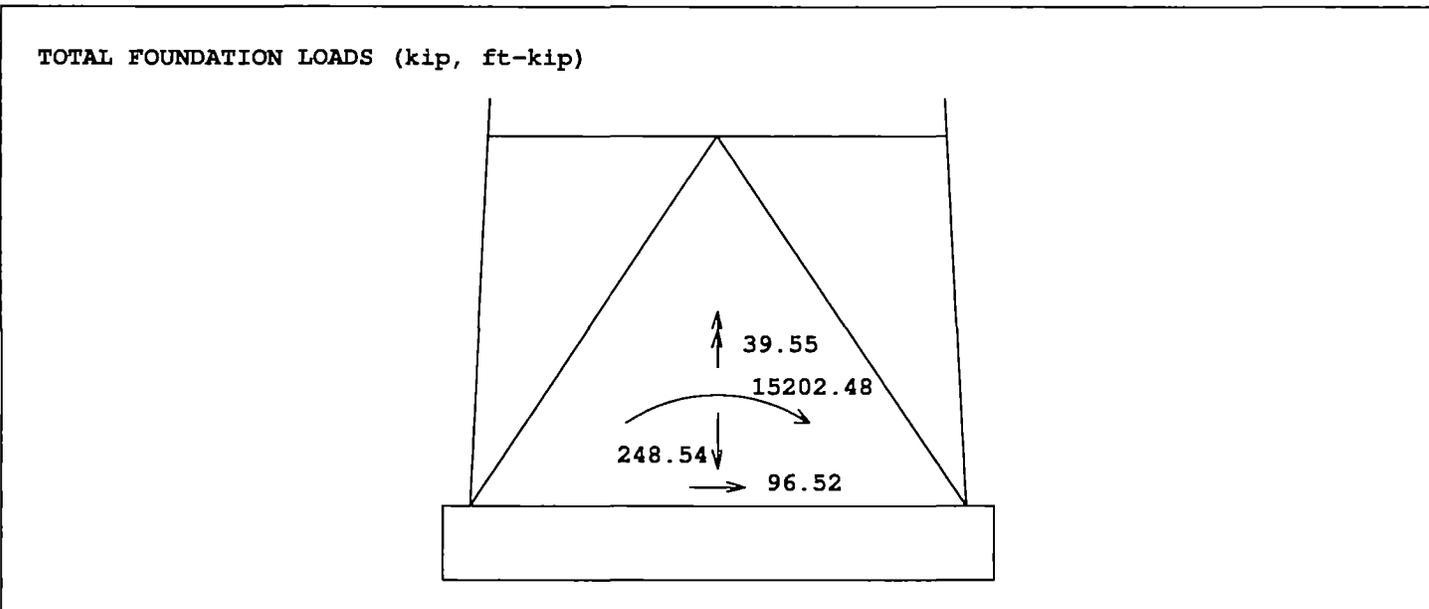
Maximum



Maximum



Maximum



Latticed Tower Analysis (Unguyed)  
Processed under license at:

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

Sabre Towers and Poles

on: 27 mar 2018 at: 6:38:41

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	250.00	255.00	5.00	5.00	5.00
X	3	240.00	250.00	5.00	5.00	5.00
X	3	235.00	240.00	5.50	5.00	5.00
X	3	220.00	235.00	7.00	5.50	5.00
X	3	200.00	220.00	9.00	7.00	5.00
X	3	180.00	200.00	11.00	9.00	6.67
X	3	160.00	180.00	13.00	11.00	6.67
X	3	140.00	160.00	15.00	13.00	6.67
X	3	120.00	140.00	17.00	15.00	10.00
X	3	100.00	120.00	19.00	17.00	10.00
X	3	80.00	100.00	21.00	19.00	10.00
X	3	60.00	80.00	23.00	21.00	10.00
X	3	40.00	60.00	25.00	23.00	10.00
X	3	20.00	40.00	27.00	25.00	10.00
V	3	13.33	20.00	27.67	27.00	6.67
A	3	0.00	13.33	29.00	27.67	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	240.00	255.00	1.075	0.787	29000.	0.0000117
LE	220.00	240.00	3.016	0.787	29000.	0.0000117
LE	200.00	220.00	4.407	0.787	29000.	0.0000117
LE	180.00	200.00	6.111	0.787	29000.	0.0000117
LE	160.00	180.00	7.952	0.787	29000.	0.0000117
LE	140.00	160.00	8.399	0.787	29000.	0.0000117
LE	80.00	140.00	12.763	0.787	29000.	0.0000117
LE	60.00	80.00	16.101	0.787	29000.	0.0000117
LE	0.00	60.00	14.579	0.787	29000.	0.0000117
DI	240.00	255.00	0.484	0.626	29000.	0.0000117
DI	220.00	240.00	0.715	0.626	29000.	0.0000117
DI	200.00	220.00	0.902	0.626	29000.	0.0000117
DI	180.00	200.00	1.188	0.626	29000.	0.0000117
DI	140.00	180.00	1.090	0.626	29000.	0.0000117
DI	120.00	140.00	1.562	0.626	29000.	0.0000117
DI	100.00	120.00	1.812	0.626	29000.	0.0000117
DI	40.00	100.00	1.938	0.626	29000.	0.0000117
DI	13.33	40.00	2.402	0.626	29000.	0.0000117
DI	0.00	13.33	2.559	0.626	29000.	0.0000117
HO	250.00	255.00	0.484	0.626	29000.	0.0000117
HO	235.00	240.00	0.715	0.626	29000.	0.0000117
HO	0.00	13.33	1.938	0.626	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
250.0	255.0	31.48	48.15	7.16	7.16	5.82	5.82	0.00	0.00
240.0	250.0	31.48	48.15	7.16	7.16	0.00	0.00	0.00	0.00
235.0	240.0	110.98	135.90	10.74	10.74	8.46	8.46	0.00	0.00
220.0	235.0	110.98	135.90	10.74	10.74	0.00	0.00	0.00	0.00
200.0	220.0	175.98	198.45	13.03	13.03	0.00	0.00	0.00	0.00
180.0	200.0	239.46	274.95	13.00	13.00	0.00	0.00	0.00	0.00
160.0	180.0	309.64	357.75	13.34	13.34	0.00	0.00	0.00	0.00

405147									
140.0	160.0	358.08	378.00	10.34	10.34	0.00	0.00	0.00	0.00
120.0	140.0	507.33	457.90	11.62	11.62	0.00	0.00	0.00	0.00
100.0	120.0	507.33	457.90	14.82	14.82	0.00	0.00	0.00	0.00
80.0	100.0	507.33	576.00	15.77	15.77	0.00	0.00	0.00	0.00
60.0	80.0	668.86	724.50	13.43	13.43	0.00	0.00	0.00	0.00
40.0	60.0	621.06	656.10	14.31	14.31	0.00	0.00	0.00	0.00
20.0	40.0	621.06	656.10	15.70	15.70	0.00	0.00	0.00	0.00
13.3	20.0	640.29	656.10	20.02	20.02	0.00	0.00	0.00	0.00
0.0	13.3	640.29	656.10	30.51	30.51	15.60	15.60	7.41	7.41

\* 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..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	260.0	0.00	0.0	0.0	0.22	0.15	0.00	0.00
C	250.0	0.00	0.0	0.0	10.00	7.20	0.00	0.00
C	238.0	0.00	0.0	0.0	7.41	4.80	0.00	0.00
C	226.0	0.00	0.0	0.0	7.33	4.80	0.00	0.00
C	214.0	0.00	0.0	0.0	7.24	4.80	0.00	0.00
D	255.0	0.00	180.0	0.0	0.07	0.04	0.00	0.00
D	250.0	0.00	180.0	0.0	0.07	0.04	0.00	0.00
D	250.0	0.00	42.0	0.0	0.13	0.06	0.06	0.10
D	240.0	0.00	42.0	0.0	0.13	0.06	0.06	0.10
D	240.0	0.00	64.4	0.0	0.16	0.12	0.06	0.11
D	235.0	0.00	64.4	0.0	0.16	0.12	0.06	0.11
D	235.0	0.00	79.5	0.0	0.17	0.12	0.06	0.11
D	230.0	0.00	79.5	0.0	0.17	0.12	0.06	0.11
D	230.0	0.00	83.3	0.0	0.18	0.13	0.05	0.10
D	225.0	0.00	83.3	0.0	0.18	0.13	0.05	0.10
D	225.0	0.00	92.0	0.0	0.20	0.15	0.04	0.06
D	220.0	0.00	92.0	0.0	0.20	0.15	0.04	0.06
D	220.0	0.00	89.2	0.0	0.22	0.18	0.05	0.06
D	215.0	0.00	89.2	0.0	0.22	0.18	0.05	0.06
D	215.0	0.00	353.1	0.0	0.23	0.20	0.01	0.04
D	210.0	0.00	353.1	0.0	0.23	0.20	0.01	0.04
D	210.0	0.00	322.3	0.0	0.23	0.20	0.02	0.04
D	200.0	0.00	322.2	0.0	0.24	0.21	0.02	0.04
D	200.0	0.00	322.4	0.0	0.23	0.23	0.02	0.04
D	180.0	0.00	321.9	0.0	0.24	0.24	0.02	0.04
D	180.0	0.00	322.4	0.0	0.24	0.26	0.02	0.04
D	160.0	0.00	321.9	0.0	0.25	0.26	0.02	0.04
D	160.0	0.00	322.4	0.0	0.26	0.27	0.02	0.04
D	140.0	0.00	322.0	0.0	0.26	0.27	0.02	0.04
D	140.0	0.00	322.3	0.0	0.24	0.33	0.02	0.04
D	110.0	0.00	322.3	0.0	0.25	0.35	0.02	0.04
D	110.0	0.00	322.3	0.0	0.25	0.36	0.02	0.04
D	80.0	0.00	322.3	0.0	0.26	0.37	0.02	0.03
D	80.0	0.00	322.4	0.0	0.26	0.42	0.02	0.03
D	40.0	0.00	322.3	0.0	0.27	0.41	0.02	0.03
D	40.0	0.00	322.4	0.0	0.25	0.45	0.02	0.03
D	20.0	0.00	322.3	0.0	0.25	0.45	0.02	0.03
D	20.0	0.00	322.4	0.0	0.20	0.42	0.02	0.02
D	13.3	0.00	322.4	0.0	0.20	0.42	0.02	0.02
D	13.3	0.00	322.4	0.0	0.24	0.50	0.02	0.02
D	0.0	0.00	322.4	0.0	0.24	0.50	0.02	0.02

LOADING CONDITION M

89 mph wind with no ice. wind Azimuth: 0♦

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	260.0	0.00	0.0	0.0	0.22	0.12	0.00	0.00
C	250.0	0.00	0.0	0.0	10.00	5.40	0.00	0.00
C	238.0	0.00	0.0	0.0	7.41	3.60	0.00	0.00
C	226.0	0.00	0.0	0.0	7.33	3.60	0.00	0.00
C	214.0	0.00	0.0	0.0	7.24	3.60	0.00	0.00
D	255.0	0.00	180.0	0.0	0.07	0.03	0.00	0.00
D	250.0	0.00	180.0	0.0	0.07	0.03	0.00	0.00
D	250.0	0.00	42.0	0.0	0.13	0.04	0.04	0.10
D	240.0	0.00	42.0	0.0	0.13	0.04	0.04	0.10
D	240.0	0.00	64.4	0.0	0.16	0.09	0.04	0.11
D	235.0	0.00	64.4	0.0	0.16	0.09	0.04	0.11
D	235.0	0.00	79.5	0.0	0.17	0.09	0.04	0.11
D	230.0	0.00	79.5	0.0	0.17	0.09	0.04	0.11
D	230.0	0.00	83.3	0.0	0.18	0.10	0.04	0.10
D	225.0	0.00	83.3	0.0	0.18	0.10	0.04	0.10
D	225.0	0.00	92.0	0.0	0.20	0.11	0.03	0.06
D	220.0	0.00	92.0	0.0	0.20	0.11	0.03	0.06
D	220.0	0.00	89.2	0.0	0.22	0.13	0.04	0.06
D	215.0	0.00	89.2	0.0	0.22	0.13	0.04	0.06
D	215.0	0.00	351.6	0.0	0.23	0.15	0.01	0.04
D	200.0	0.00	316.7	0.0	0.24	0.15	0.02	0.04
D	200.0	0.00	322.4	0.0	0.23	0.17	0.02	0.04
D	180.0	0.00	321.9	0.0	0.24	0.18	0.02	0.04
D	180.0	0.00	322.4	0.0	0.24	0.19	0.02	0.04
D	160.0	0.00	321.9	0.0	0.25	0.20	0.02	0.04
D	160.0	0.00	322.4	0.0	0.26	0.20	0.02	0.04
D	140.0	0.00	322.0	0.0	0.26	0.21	0.02	0.04
D	140.0	0.00	322.3	0.0	0.24	0.25	0.02	0.04
D	110.0	0.00	322.3	0.0	0.25	0.26	0.02	0.04
D	110.0	0.00	322.3	0.0	0.25	0.27	0.02	0.04
D	80.0	0.00	322.3	0.0	0.26	0.28	0.02	0.03
D	80.0	0.00	322.4	0.0	0.26	0.31	0.02	0.03
D	40.0	0.00	322.3	0.0	0.27	0.31	0.02	0.03
D	40.0	0.00	322.4	0.0	0.25	0.33	0.02	0.03
D	20.0	0.00	322.3	0.0	0.25	0.34	0.02	0.03
D	20.0	0.00	322.4	0.0	0.20	0.31	0.02	0.02
D	13.3	0.00	322.4	0.0	0.20	0.31	0.02	0.02
D	13.3	0.00	322.4	0.0	0.24	0.37	0.02	0.02
D	0.0	0.00	322.4	0.0	0.24	0.37	0.02	0.02

LOADING CONDITION Y

30 mph wind with 0.75 ice. Wind Azimuth: 0♦

MAST LOADING

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LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD..AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	260.0	0.00	0.0	0.0	0.04	0.30	0.00	0.00
C	250.0	0.00	0.0	0.0	1.24	18.22	0.00	0.00
C	238.0	0.00	0.0	0.0	1.49	12.11	0.00	0.00
C	226.0	0.00	0.0	0.0	1.47	12.07	0.00	0.00
C	214.0	0.00	0.0	0.0	1.44	12.03	0.00	0.00
D	255.0	0.00	180.0	0.0	0.01	0.18	0.00	0.00
D	250.0	0.00	180.0	0.0	0.01	0.18	0.00	0.00
D	250.0	0.00	42.0	0.0	0.01	0.25	0.22	0.01
D	240.0	0.00	42.0	0.0	0.01	0.25	0.22	0.01
D	240.0	0.00	69.8	0.0	0.02	0.39	0.20	0.01
D	235.0	0.00	69.8	0.0	0.02	0.39	0.20	0.01
D	235.0	0.00	89.5	0.0	0.02	0.39	0.21	0.01
D	230.0	0.00	89.5	0.0	0.02	0.39	0.21	0.01
D	230.0	0.00	91.0	0.0	0.02	0.42	0.18	0.01
D	225.0	0.00	91.0	0.0	0.02	0.42	0.18	0.01
D	225.0	0.00	86.8	0.0	0.02	0.50	0.12	0.00
D	220.0	0.00	86.8	0.0	0.02	0.50	0.12	0.00

					405147		
D	220.0	0.00	84.3	0.0	0.02	0.55	0.13
D	215.0	0.00	84.3	0.0	0.02	0.55	0.13
D	215.0	0.00	345.5	0.0	0.02	0.61	0.05
D	210.0	0.00	345.5	0.0	0.02	0.61	0.05
D	210.0	0.00	322.4	0.0	0.02	0.63	0.08
D	180.0	0.00	321.9	0.0	0.02	0.66	0.08
D	180.0	0.00	322.4	0.0	0.02	0.70	0.08
D	160.0	0.00	321.9	0.0	0.02	0.72	0.08
D	160.0	0.00	322.4	0.0	0.02	0.74	0.08
D	140.0	0.00	322.0	0.0	0.03	0.76	0.08
D	140.0	0.00	322.3	0.0	0.02	0.78	0.08
D	110.0	0.00	322.3	0.0	0.02	0.82	0.08
D	110.0	0.00	322.3	0.0	0.02	0.84	0.08
D	80.0	0.00	322.3	0.0	0.02	0.87	0.08
D	80.0	0.00	322.4	0.0	0.03	0.92	0.07
D	20.0	0.00	322.3	0.0	0.02	0.96	0.07
D	20.0	0.00	322.4	0.0	0.02	0.90	0.08
D	13.3	0.00	322.4	0.0	0.02	0.90	0.08
D	13.3	0.00	322.4	0.0	0.02	1.19	0.10
D	0.0	0.00	322.4	0.0	0.02	1.19	0.10

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MAXIMUM TENSION IN MAST MEMBERS (kip)

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ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	-----	-----	1.23 A	0.00 A
	0.92 S	1.92 G		
250.0	-----	-----	0.20 G	0.00 A
	4.65 M	5.15 H		
245.0	-----	-----	0.26 I	0.00 A
	18.16 M	5.42 N		
240.0	-----	-----	0.56 K	0.00 A
	30.72 M	6.25 M		
235.0	-----	-----	0.16 A	0.00 A
	46.61 M	7.22 H		
230.0	-----	-----	0.12 A	0.00 A
	61.91 M	7.22 N		
225.0	-----	-----	0.06 Y	0.00 A
	78.21 M	9.23 H		
220.0	-----	-----	0.22 A	0.00 A
	97.13 M	8.75 T		
215.0	-----	-----	0.04 a	0.00 A
	113.66 M	10.59 T		
210.0	-----	-----	0.24 A	0.00 A
	134.54 M	10.76 H		
205.0	-----	-----	0.05 A	0.00 A
	152.26 M	10.36 T		
200.0	-----	-----	0.20 A	0.00 A
	173.14 M	10.87 T		
193.3	-----	-----	0.07 A	0.00 A
	193.50 M	10.45 N		
186.7	-----	-----	0.18 A	0.00 A
	213.78 M	10.18 R		
180.0	-----	-----	0.07 A	0.00 A
	231.54 M	9.98 X		
173.3	-----	-----	0.12 A	0.00 A
	249.23 M	9.88 R		
166.7	-----	-----	0.07 A	0.00 A
	265.23 M	9.82 X		
160.0	-----	-----	0.10 A	0.00 A
	281.20 M	9.82 R		
153.3	-----	-----	0.09 A	0.00 A
	295.97 M	9.86 P		
146.7	-----	-----	0.09 A	0.00 A
	310.77 M	9.95 P		
140.0	-----	-----	0.09 A	0.00 A
	327.84 M	10.96 P		
130.0	-----	-----	0.11 A	0.00 A
	348.23 M	11.01 P		
120.0	-----	-----	0.08 A	0.00 A
	367.29 M	11.10 P		
110.0	-----	-----	0.10 A	0.00 A
	386.15 M	11.27 P		
100.0	-----	-----	0.06 A	0.00 A
	404.12 M	11.47 P		
90.0	-----	-----	0.09 A	0.00 A
	421.99 M	11.72 P		

ELEV	MEMBER	TYPE	405147	TYPE
80.0	439.19 M	11.99 P	0.06 A	0.00 A
70.0	456.31 M	12.29 P	0.06 A	0.00 A
60.0	472.99 M	12.60 V	0.06 A	0.00 A
50.0	489.65 M	12.92 P	0.06 A	0.00 A
40.0	505.96 M	13.23 V	0.05 O	0.00 A
30.0	522.10 M	13.52 P	0.08 S	0.00 A
20.0	540.88 M	14.18 V	0.15 A	0.00 A
13.3	539.70 M	18.28 V	0.84 U	0.00 U
0.0			0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	-1.09 A	-1.90 A	-1.24 G	0.00 A
250.0	-9.19 G	-5.18 B	-0.19 M	0.00 A
245.0	-22.91 G	-5.52 H	-0.18 O	0.00 A
240.0	-37.32 G	-6.59 G	-0.51 Q	0.00 A
235.0	-55.40 G	-7.10 N	-0.10 S	0.00 A
230.0	-71.48 G	-7.37 H	-0.11 S	0.00 A
225.0	-90.81 G	-9.25 B	-0.02 S	0.00 A
220.0	-110.40 G	-8.78 H	-0.20 S	0.00 A
215.0	-129.89 G	-10.72 G	-0.01 U	0.00 A
210.0	-152.28 G	-10.75 T	-0.21 S	0.00 A
205.0	-170.80 G	-10.41 H	-0.03 S	0.00 A
200.0	-192.80 G	-10.88 B	-0.18 S	0.00 A
193.3	-214.42 G	-10.50 H	-0.05 S	0.00 A
186.7	-236.05 G	-10.19 F	-0.16 S	0.00 A
180.0	-255.19 G	-10.02 F	-0.05 S	0.00 A
173.3	-274.34 G	-9.90 F	-0.10 S	0.00 A
166.7	-291.81 G	-9.85 F	-0.06 S	0.00 A
160.0	-309.32 G	-9.84 L	-0.09 S	0.00 A
153.3	-325.64 G	-9.90 D	-0.08 S	0.00 A
146.7	-342.06 G	-9.96 D	-0.08 S	0.00 A
140.0	-361.26 G	-11.02 J	-0.08 S	0.00 A
130.0	-384.48 G	-11.04 D	-0.10 S	0.00 A
120.0	-406.37 G	-11.16 D	-0.07 S	0.00 A
110.0	-428.19 G	-11.31 D	-0.08 S	0.00 A
100.0	-449.16 G	-11.52 D	-0.05 S	0.00 A
90.0			-0.07 S	0.00 A

405147

80.0	-470.12 G	-11.76 J	-0.05 S	0.00 A
70.0	-490.59 G	-12.04 D	-0.05 S	0.00 A
60.0	-511.14 G	-12.34 J	-0.05 S	0.00 A
50.0	-531.26 G	-12.65 D	-0.05 S	0.00 A
40.0	-551.40 G	-12.97 J	-0.06 I	0.00 A
30.0	-571.29 G	-13.27 D	-0.09 A	0.00 A
20.0	-591.15 G	-13.56 D	-0.13 S	0.00 A
13.3	-613.32 G	-14.25 D	-1.01 C	0.00 O
0.0	-614.89 G	-18.33 D	0.00 A	0.00 A

FORCE/RESISTANCE RATIO IN LEGS

MAST ELEV ft	-- LEG COMPRESSION --			---- LEG TENSION ----		
	MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
255.00	1.09	31.48	0.03	0.92	48.15	0.02
250.00	9.19	31.48	0.29	4.65	48.15	0.10
245.00	22.91	31.48	0.73	18.16	48.15	0.38
240.00	37.32	110.98	0.34	30.72	135.90	0.23
235.00	55.40	110.98	0.50	46.61	135.90	0.34
230.00	71.48	110.98	0.64	61.91	135.90	0.46
225.00	90.81	110.98	0.82	78.21	135.90	0.58
220.00	110.40	175.98	0.63	97.13	198.45	0.49
215.00	129.89	175.98	0.74	113.66	198.45	0.57
210.00	152.28	175.98	0.87	134.54	198.45	0.68
205.00	170.80	175.98	0.97	152.26	198.45	0.77
200.00	192.80	239.46	0.81	173.14	274.95	0.63
193.33	214.42	239.46	0.90	193.50	274.95	0.70
186.67	236.05	239.46	0.99	213.78	274.95	0.78
180.00	255.19	309.64	0.82	231.54	357.75	0.65
173.33	274.34	309.64	0.89	249.23	357.75	0.70
166.67	291.81	309.64	0.94	265.23	357.75	0.74
160.00	309.32	358.08	0.86	281.20	378.00	0.74
153.33	325.64	358.08	0.91	295.97	378.00	0.78
146.67	342.06	358.08	0.96	310.77	378.00	0.82
140.00	361.26	507.33	0.71	327.84	457.90	0.72
130.00	384.48	507.33	0.76	348.23	457.90	0.76
120.00	406.37	507.33	0.80	367.29	457.90	0.80
110.00	428.19	507.33	0.84	386.15	457.90	0.84
100.00	449.16	507.33	0.89	404.12	576.00	0.70
90.00	470.12	507.33	0.93	421.99	576.00	0.73

405147

80.00	490.59	668.86	0.73	439.19	724.50	0.61
70.00	511.14	668.86	0.76	456.31	724.50	0.63
60.00	531.26	621.06	0.86	472.99	656.10	0.72
50.00	551.40	621.06	0.89	489.65	656.10	0.75
40.00	571.29	621.06	0.92	505.96	656.10	0.77
30.00	591.15	621.06	0.95	522.10	656.10	0.80
20.00	613.32	640.29	0.96	540.88	656.10	0.82
13.33	614.89	640.29	0.96	539.70	656.10	0.82
0.00						

FORCE/RESISTANCE RATIO IN DIAGONALS

MAST ELEV ft	- DIAG COMPRESSION -			--- DIAG TENSION ---		
	MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
255.00	1.90	7.16	0.27	1.92	7.16	0.27
250.00	5.18	7.16	0.72	5.15	7.16	0.72
245.00	5.52	7.16	0.77	5.42	7.16	0.76
240.00	6.59	10.74	0.61	6.25	10.74	0.58
235.00	7.10	10.74	0.66	7.22	10.74	0.67
230.00	7.37	10.74	0.69	7.22	10.74	0.67
225.00	9.25	10.74	0.86	9.23	10.74	0.86
220.00	8.78	13.03	0.67	8.75	13.03	0.67
215.00	10.72	13.03	0.82	10.59	13.03	0.81
210.00	10.75	13.03	0.82	10.76	13.03	0.83
205.00	10.41	13.03	0.80	10.36	13.03	0.80
200.00	10.88	13.00	0.84	10.87	13.00	0.84
193.33	10.50	13.00	0.81	10.45	13.00	0.80
186.67	10.19	13.00	0.78	10.18	13.00	0.78
180.00	10.02	13.34	0.75	9.98	13.34	0.75
173.33	9.90	13.34	0.74	9.88	13.34	0.74
166.67	9.85	13.34	0.74	9.82	13.34	0.74
160.00	9.84	10.34	0.95	9.82	10.34	0.95
153.33	9.90	10.34	0.96	9.86	10.34	0.95
146.67	9.96	10.34	0.96	9.95	10.34	0.96
140.00	11.02	11.62	0.95	10.96	11.62	0.94
130.00	11.04	11.62	0.95	11.01	11.62	0.95
120.00	11.16	14.82	0.75	11.10	14.82	0.75
110.00	11.31	14.82	0.76	11.27	14.82	0.76
100.00	11.52	15.77	0.73	11.47	15.77	0.73
90.00	11.76	15.77	0.75	11.72	15.77	0.74
80.00	12.04	13.43	0.90	11.99	13.43	0.89

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70.00	12.34	13.43	0.92	12.29	13.43	0.92
60.00	12.65	14.31	0.88	12.60	14.31	0.88
50.00	12.97	14.31	0.91	12.92	14.31	0.90
40.00	13.27	15.70	0.85	13.23	15.70	0.84
30.00	13.56	15.70	0.86	13.52	15.70	0.86
20.00	14.25	20.02	0.71	14.18	20.02	0.71
13.33	18.33	30.51	0.60	18.28	30.51	0.60
0.00						

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

LOAD		COMPONENTS		TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
58.78 G	50.54 K	638.77 G	-560.23 M	58.78 G

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

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@				@	
		0.0				0.0	
96.5 G	-92.1 D	96.5 G	248.5 C	15202.5 G	-14578.0 D	15202.5 G	39.6 T

Latticed Tower Analysis (Unguyed)  
 Processed under license at:

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Sabre Towers and Poles

on: 27 mar 2018 at: 6:39:20

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

\* Only 1 condition(s) shown in full  
 \* Some wind loads may have been derived from full-scale wind tunnel testing

LOADING CONDITION A

60 mph wind with no ice. Wind Azimuth: 0

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	260.0	0.00	0.0	0.0	0.06	0.13	0.00	0.00
C	250.0	0.00	0.0	0.0	2.84	6.00	0.00	0.00
C	238.0	0.00	0.0	0.0	2.10	4.00	0.00	0.00
C	226.0	0.00	0.0	0.0	2.08	4.00	0.00	0.00
C	214.0	0.00	0.0	0.0	2.06	4.00	0.00	0.00
D	255.0	0.00	180.0	0.0	0.02	0.03	0.00	0.00

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D	250.0	0.00	180.0	0.0	0.02	0.03	0.00	0.00
D	250.0	0.00	42.0	0.0	0.04	0.05	0.05	0.03
D	240.0	0.00	42.0	0.0	0.04	0.05	0.05	0.03
D	240.0	0.00	64.4	0.0	0.05	0.10	0.05	0.03
D	235.0	0.00	64.4	0.0	0.05	0.10	0.05	0.03
D	235.0	0.00	79.5	0.0	0.05	0.10	0.05	0.03
D	225.0	0.00	83.3	0.0	0.05	0.11	0.04	0.03
D	225.0	0.00	92.0	0.0	0.06	0.13	0.04	0.02
D	220.0	0.00	92.0	0.0	0.06	0.13	0.04	0.02
D	220.0	0.00	89.2	0.0	0.06	0.15	0.04	0.02
D	215.0	0.00	89.2	0.0	0.06	0.15	0.04	0.02
D	215.0	0.00	353.1	0.0	0.07	0.16	0.01	0.01
D	210.0	0.00	353.1	0.0	0.07	0.16	0.01	0.01
D	210.0	0.00	322.3	0.0	0.07	0.17	0.02	0.01
D	200.0	0.00	322.2	0.0	0.07	0.17	0.02	0.01
D	200.0	0.00	322.4	0.0	0.07	0.19	0.02	0.01
D	180.0	0.00	321.9	0.0	0.07	0.20	0.02	0.01
D	180.0	0.00	322.4	0.0	0.07	0.21	0.02	0.01
D	160.0	0.00	321.9	0.0	0.07	0.22	0.02	0.01
D	160.0	0.00	322.4	0.0	0.07	0.22	0.02	0.01
D	140.0	0.00	322.0	0.0	0.08	0.23	0.02	0.01
D	140.0	0.00	322.3	0.0	0.07	0.28	0.02	0.01
D	110.0	0.00	322.3	0.0	0.07	0.29	0.02	0.01
D	110.0	0.00	322.3	0.0	0.07	0.30	0.02	0.01
D	80.0	0.00	322.3	0.0	0.08	0.31	0.02	0.01
D	80.0	0.00	322.4	0.0	0.08	0.35	0.02	0.01
D	40.0	0.00	322.3	0.0	0.08	0.34	0.02	0.01
D	40.0	0.00	322.4	0.0	0.07	0.37	0.02	0.01
D	20.0	0.00	322.3	0.0	0.07	0.38	0.02	0.01
D	20.0	0.00	322.4	0.0	0.06	0.35	0.02	0.01
D	13.3	0.00	322.4	0.0	0.06	0.35	0.02	0.01
D	13.3	0.00	322.4	0.0	0.07	0.41	0.02	0.01
D	0.0	0.00	322.4	0.0	0.07	0.41	0.02	0.01

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MAXIMUM MAST DISPLACEMENTS:

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ELEV ft	-----DEFLECTIONS (ft)-----			--TILTS (DEG)---		TWIST DEG
	NORTH	EAST	DOWN	NORTH	EAST	
255.0	1.026 G	0.987 J	0.015 G	0.522 G	0.502 J	0.029 L
250.0	0.981 G	0.943 J	0.015 G	0.523 G	0.503 J	0.029 L
245.0	0.934 G	0.898 J	0.014 G	0.516 G	0.497 J	0.029 L
240.0	0.889 G	0.855 J	0.013 G	0.498 G	0.479 J	0.027 L
235.0	0.845 G	0.812 J	0.013 G	0.488 G	0.470 J	0.026 L
230.0	0.802 G	0.771 J	0.013 G	0.475 G	0.457 J	0.025 L
225.0	0.761 G	0.731 J	0.012 G	0.459 G	0.441 J	0.024 L
220.0	0.720 G	0.692 J	0.012 G	0.440 G	0.423 J	0.023 L
215.0	0.682 G	0.656 J	0.012 G	0.425 G	0.409 J	0.022 L
210.0	0.644 G	0.619 J	0.011 G	0.409 G	0.393 J	0.021 L
205.0	0.608 G	0.585 J	0.011 G	0.391 G	0.376 J	0.020 L
200.0	0.574 G	0.552 J	0.010 G	0.371 G	0.357 J	0.019 L
193.3	0.531 G	0.510 J	0.010 G	0.351 G	0.338 J	0.018 L
186.7	0.490 G	0.471 J	0.009 G	0.330 G	0.318 J	0.017 L
180.0	0.452 G	0.435 J	0.009 G	0.309 G	0.297 J	0.016 L
173.3	0.416 G	0.400 J	0.009 G	0.292 G	0.281 J	0.015 L
166.7	0.382 G	0.367 J	0.008 G	0.275 G	0.264 J	0.014 H
160.0	0.349 G	0.336 J	0.008 G	0.257 G	0.248 J	0.014 H
153.3	0.319 G	0.307 J	0.008 G	0.241 G	0.232 J	0.013 H
146.7	0.291 G	0.279 J	0.007 G	0.224 G	0.216 J	0.012 H
140.0	0.264 G	0.254 J	0.007 G	0.208 G	0.200 J	0.011 H
130.0	0.228 G	0.219 J	0.007 G	0.191 G	0.184 J	0.010 H
120.0	0.195 G	0.187 J	0.006 G	0.175 G	0.168 J	0.009 H
110.0	0.165 G	0.158 J	0.006 G	0.159 G	0.152 J	0.009 H
100.0	0.137 G	0.132 J	0.005 G	0.142 G	0.137 J	0.008 H
90.0	0.113 G	0.108 J	0.005 G	0.126 G	0.121 J	0.007 H
80.0	0.091 G	0.087 J	0.004 G	0.109 G	0.105 J	0.006 H
70.0	0.072 G	0.069 J	0.004 G	0.097 G	0.093 J	0.005 H
60.0	0.054 G	0.052 J	0.003 G	0.084 G	0.081 J	0.004 H
50.0	0.039 G	0.038 J	0.003 G	0.070 G	0.067 J	0.004 H
40.0	0.026 G	0.025 J	0.002 G	0.056 G	0.054 J	0.003 H
30.0	0.015 G	0.014 J	0.002 G	0.042 G	0.040 J	0.002 H
20.0	0.005 G	0.005 J	0.001 G	0.028 G	0.026 J	0.001 H
13.3	0.002 G	0.002 J	0.001 G	0.019 G	0.018 J	0.001 H
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

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MAXIMUM TENSION IN MAST MEMBERS (kip)

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ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	0.21 G	0.56 G	0.35 A	0.00 A
250.0	0.00 A	1.47 H	0.06 G	0.00 A
245.0	3.61 A	1.53 B	0.10 I	0.00 A
240.0	6.61 A	1.69 A	0.18 K	0.00 A
235.0	10.44 A	2.10 H	0.06 A	0.00 A
230.0	14.60 A	2.01 B	0.04 A	0.00 A
225.0	18.25 A	2.62 B	0.03 A	0.00 A
220.0	23.47 A	2.48 B	0.07 A	0.00 A
215.0	27.21 A	2.97 H	0.01 C	0.00 A
210.0	32.69 A	3.06 H	0.08 A	0.00 A
205.0	37.55 A	2.93 H	0.02 A	0.00 A
200.0	43.20 A	3.09 H	0.07 A	0.00 A
193.3	48.70 A	2.96 B	0.02 A	0.00 A
186.7	54.14 A	2.90 L	0.06 A	0.00 A
180.0	58.89 A	2.84 L	0.02 A	0.00 A
173.3	63.58 A	2.82 L	0.04 A	0.00 A
166.7	67.81 A	2.80 L	0.02 A	0.00 A
160.0	72.02 A	2.81 L	0.03 A	0.00 A
153.3	75.89 A	2.82 D	0.03 A	0.00 A
146.7	79.76 A	2.86 J	0.03 A	0.00 A
140.0	84.16 A	3.13 D	0.04 A	0.00 A
130.0	89.32 A	3.16 J	0.03 A	0.00 A
120.0	94.12 A	3.19 J	0.03 A	0.00 A
110.0	98.84 A	3.25 D	0.03 A	0.00 A
100.0	103.30 A	3.31 J	0.02 A	0.00 A
90.0	107.72 A	3.38 D	0.03 A	0.00 A
80.0	111.91 A	3.46 J	0.02 A	0.00 A
70.0	116.01 A	3.55 D	0.02 A	0.00 A
60.0	119.99 A	3.63 J	0.02 A	0.00 A
50.0	123.97 A	3.72 D	0.02 A	0.00 A
40.0	127.80 A	3.81 J	0.01 C	0.00 A
30.0	131.53 A	3.89 D	0.02 G	0.00 A
20.0	136.21 A	4.07 J	0.05 A	0.00 A
13.3	134.90 A	5.26 J	0.21 I	0.00 J
0.0			0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	-----	-----	-0.36 G	0.00 A
	-0.37 A	-0.54 A		
250.0	-----	-----	-0.05 A	0.00 A
	-4.03 G	-1.49 B		
245.0	-----	-----	-0.02 C	0.00 A
	-7.99 G	-1.61 H		
240.0	-----	-----	-0.12 E	0.00 A
	-12.64 G	-1.97 G		
235.0	-----	-----	-0.01 G	0.00 A
	-18.43 G	-1.99 B		
230.0	-----	-----	-0.03 G	0.00 A
	-23.20 G	-2.15 B		
225.0	-----	-----	0.00 A	0.00 A
	-29.59 G	-2.64 B		
220.0	-----	-----	-0.05 G	0.00 A
	-35.31 G	-2.51 B		
215.0	-----	-----	0.00 A	0.00 A
	-41.71 G	-3.07 G		
210.0	-----	-----	-0.05 G	0.00 A
	-48.46 G	-3.05 H		
205.0	-----	-----	0.00 G	0.00 A
	-53.90 G	-2.98 H		
200.0	-----	-----	-0.04 G	0.00 A
	-60.41 G	-3.10 B		
193.3	-----	-----	-0.01 G	0.00 A
	-66.84 G	-3.01 H		
186.7	-----	-----	-0.04 G	0.00 A
	-73.30 G	-2.92 L		
180.0	-----	-----	-0.01 G	0.00 A
	-79.07 G	-2.88 L		
173.3	-----	-----	-0.02 G	0.00 A
	-84.86 G	-2.84 L		
166.7	-----	-----	-0.01 G	0.00 A
	-90.18 G	-2.83 F		
160.0	-----	-----	-0.02 G	0.00 A
	-95.52 G	-2.83 L		
153.3	-----	-----	-0.02 G	0.00 A
	-100.53 G	-2.85 J		
146.7	-----	-----	-0.02 G	0.00 A
	-105.58 G	-2.87 D		
140.0	-----	-----	-0.02 G	0.00 A
	-111.55 G	-3.19 J		
130.0	-----	-----	-0.02 G	0.00 A
	-118.86 G	-3.20 D		
120.0	-----	-----	-0.02 G	0.00 A
	-125.80 G	-3.24 D		
110.0	-----	-----	-0.02 G	0.00 A
	-132.74 G	-3.29 J		
100.0	-----	-----	-0.01 G	0.00 A
	-139.46 G	-3.35 D		
90.0	-----	-----	-0.02 G	0.00 A
	-146.20 G	-3.42 J		
80.0	-----	-----	-0.01 G	0.00 A
	-152.84 G	-3.51 D		
70.0	-----	-----	-0.01 G	0.00 A
	-159.55 G	-3.59 J		
60.0	-----	-----	-0.01 G	0.00 A
	-166.12 G	-3.68 D		
50.0	-----	-----	-0.01 G	0.00 A
	-172.69 G	-3.77 J		
40.0	-----	-----	-0.02 I	0.00 A
	-179.22 G	-3.85 D		
30.0	-----	-----	-0.03 A	0.00 A
	-185.76 G	-3.93 J		
20.0	-----	-----	-0.03 G	0.00 A
	-192.80 G	-4.13 D		
13.3	-----	-----	-0.32 C	0.00 C
	-194.11 G	-5.30 D		
0.0	-----	-----	0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

-----LOAD---COMPONENTS----- TOTAL

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NORTH	EAST	DOWN	UPLIFT	SHEAR
17.93 G	15.43 K	201.59 G	-140.16 A	17.93 G

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

-----HORIZONTAL-----			DOWN	-----OVERTURNING-----			TORSION
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@				@	
		0.0				0.0	
27.7	26.5	27.7	83.6	4362.7	4185.0	4362.7	11.2
G	J	G	G	G	J	G	H

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

Tower Description 255' S3TL Series HD1  
 Customer AT&T  
 Project Number 405147  
 Date 3/27/2018  
 Engineer REB

**Overall Loads:**

Factored Moment (ft-kips)	15202.48
Factored Axial (kips)	248.54
Factored Shear (kips)	96.52

**Individual Leg Loads:**

Factored Uplift (kips)	560.00
Factored Download (kips)	639.00
Factored Shear (kips)	59.00

Width of Tower (ft)	29
Ultimate Bearing Pressure	40.00
Bearing $\Phi$ s	0.75

Bearing Design Strength (ksf)	30
Water Table Below Grade (ft)	999
Width of Mat (ft)	36.5
Thickness of Mat (ft)	1.75
Depth to Bottom of Slab (ft)	6.5
Bolt Circle Diameter (in)	18

Top of Concrete to Top of Bottom Threads (in)	65.5
Diameter of Pier (ft)	3.5

Ht. of Pier Above Ground (ft)	0.5
Ht. of Pier Below Ground (ft)	4.75

Quantity of Bars in Mat	61
Bar Diameter in Mat (in)	1.41
Area of Bars in Mat (in <sup>2</sup> )	95.25
Spacing of Bars in Mat (in)	7.18

Quantity of Bars Pier	16
Bar Diameter in Pier (in)	1.128
Tie Bar Diameter in Pier (in)	0.5
Spacing of Ties (in)	11

Area of Bars in Pier (in <sup>2</sup> )	15.99
Spacing of Bars in Pier (in)	6.61
f'c (ksi)	4.5
fy (ksi)	60

Unit Wt. of Soil (kcf)	0.11
Unit Wt. of Concrete (kcf)	0.15
Volume of Concrete (yd <sup>3</sup> )	91.96

Anchor Bolt Count (per leg)	6
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Tower eccentric from mat (ft)=	2.25
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Allowable Bearing Pressure (ksf)	20.00
Safety Factor	2.00

Max. Factored Net Bearing Pressure (ksf)	5.80
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Minimum Mat Width (ft)	35.51
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Minimum Pier Diameter (ft)	2.83
Equivalent Square b (ft)	3.10

Recommended Spacing (in)	6 to 12
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Minimum Pier A <sub>s</sub> (in <sup>2</sup> )	6.93
Recommended Spacing (in)	5 to 12

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

**Two-Way Shear:**

Average d (in)	16.59
$\phi v_c$ (ksi)	0.228
$\phi v_c = \phi(2 + 4/\beta_c)f'_c{}^{1/2}$	0.342
$\phi v_c = \phi(\alpha_s d/b_o + 2)f'_c{}^{1/2}$	0.322
$\phi v_c = \phi 4f'_c{}^{1/2}$	0.228
Shear perimeter, $b_o$ (in)	182.03
$\beta_c$	1

$v_u$  (ksi) 0.224

**Stability:**

Overturning Design Strength (ft-k) 18381.9

Factored Overturning Moment (ft-k) 15878.1

**One-Way Shear:**

$\phi V_c$  (kips) 828.7

$V_u$  (kips) 793.0

**Pier Design:**

Design Tensile Strength (kips) 863.4

$T_u$  (kips) 560.0

$\phi V_n$  (kips) 92.0

$V_u$  (kips) 59.0

$\phi V_c = \phi 2(1 + N_u/(500A_g))f'_c{}^{1/2}b_w d$  30.8

$V_s$  (kips) 72.0

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

Maximum Spacing (in) 11.15

(Only if Shear Ties are Required)

Actual Hook Development (in) 15.18

Req'd Hook Development  $l_{dh}$  (in) 12.21

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

**Anchor Bolt Pull-Out:**

$\phi P_c = \phi \lambda (2/3) f'_c{}^{1/2} (2.8A_{SLOPE} + 4A_{FLAT})$  208.9

$P_u$  (kips) 560.0

Pier Rebar Development Length (in) 54.56

Required Length of Development (in) 32.72

**Flexure in Slab:**

$\phi M_n$  (ft-kips) 6379.7

$M_u$  (ft-kips) 6357.5

a (in) 3.41

Steel Ratio 0.01311

$\beta_1$  0.825

Maximum Steel Ratio ( $\rho_t$ ) 0.0197

Minimum Steel Ratio 0.0018

Rebar Development in Pad (in) 107.15

Required Development in Pad (in) 21.49

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

**DRILLED STRAIGHT PIER DESIGN BY SABRE TOWERS & POLES**

Tower Description 255' S3TL Series HD1  
 Customer Name AT&T  
 Job Number 405147  
 Date 3/27/2018  
 Engineer REB

Factored Uplift (kips)	560	Anchor Bolt Count (per leg)	6
Factored Download (kips)	639		
Factored Shear (kips)	59		
Ultimate Bearing Pressure	83		
Bearing $\Phi$ s	0.75		
Bearing Design Strength (ksf)	62.25		
Water Table Below Grade (ft)	999		
Bolt Circle Diameter (in)	18		
Top of Concrete to Top of Bottom Threads (in)	65.5		
Pier Diameter (ft)	7	Minimum Pier Diameter (ft)	2.83
Ht. Above Ground (ft)	0.5		
Pier Length Below Ground (ft)	25		
Quantity of Bars	36		
Bar Diameter (in)	1		
Tie Bar Diameter (in)	0.625		
Spacing of Ties (in)	12		
Area of Bars (in <sup>2</sup> )	28.27	Minimum Area of Steel (in <sup>2</sup> )	27.71
Spacing of Bars (in)	6.61		
f'c (ksi)	4.5		
fy (ksi)	60		
Unit Wt. of Concrete (kcf)	0.15		
Download Friction $\Phi$ s	0.75		
Uplift Friction $\Phi$ s	0.75		
Volume of Concrete (yd <sup>3</sup> )	36.35		
Skin Friction Factor for Uplift	1	Length to Ignore Download (ft)	0
Ignore Bottom Length in Download?	<input type="checkbox"/>		

Depth at Bottom of Layer (ft)	Ult. Skin Friction (ksf)	(Ult. Skin Friction)*(Uplift Factor)	$\gamma$ (kcf)
2	0.10	0.10	0.11
5	0.75	0.75	0.11
25	1.25	1.25	0.11
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0

**Download:**

Factored Net Weight of Concrete (kips)	49.6		
Bearing Design Strength (kips)	2395.7		
Skin Friction Design Strength (kips)	452.7		
Download Design Strength (kips)	2848.4	Factored Net Download (kips)	688.6

**DRILLED STRAIGHT PIER DESIGN BY SABRE TOWERS & POLES (CONTINUED)**

**Uplift:**

Nominal Skin Friction (kips)	603.7
W <sub>c</sub> , Weight of Concrete (kips)	147.2
W <sub>R</sub> , Soil Resistance (kips)	1036.4
Φ <sub>s</sub> W <sub>R</sub> +0.9W <sub>c</sub> (kips)	909.8
Uplift Design Strength (kips)	585.2

Factored Uplift (kips) 560.0

**Pier Design:**

Design Tensile Strength (kips)	1526.8
φV <sub>n</sub> (kips)	513.6
φV <sub>c</sub> =φ2(1+N <sub>u</sub> /(500A <sub>g</sub> ))f' <sub>c</sub> <sup>1/2</sup> b <sub>w</sub> d (kips)	513.6
V <sub>s</sub> (kips)	0.0
Maximum Spacing (in)	8.71

T<sub>u</sub> (kips) 560.0

V<sub>u</sub> (kips) 59.0

\*\*\* V<sub>s</sub> max = 4 f'<sub>c</sub><sup>1/2</sup>b<sub>w</sub>d (kips) 1514.7

(Only if Shear Ties are Required)

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

**Anchor Bolt Pull-Out:**

φP <sub>c</sub> =φλ(2/3)f' <sub>c</sub> <sup>1/2</sup> (2.8A <sub>SLOPE</sub> + 4A <sub>FLAT</sub> )	834.6
Rebar Development Length (in)	33.63

P<sub>u</sub> (kips) 560.0

Required Length of Development (in) N/A

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



February 2<sup>nd</sup>, 2018  
Kentucky Public Service Commission  
211 Sower Blvd.  
P.O. Box 615  
Frankfort, KY 40602-0615

RE: Site Name – Wright’s Ridge  
Proposed Cell Tower  
38 40 25.13 North Latitude, 85 15 33.67 West Longitude

Dear Commissioners:

The Project / Construction Manager for the proposed new communications facility will be Don Murdock. His contact information is (615) 207-8280 or [Don.Murdock@mastec.com](mailto:Don.Murdock@mastec.com)

Don has been in the industry completing civil construction and constructing towers since 2009. He has worked at Mastec Network Solutions since 2009 completing project and construction management on new site build projects.

Thank you,

A handwritten signature in blue ink, appearing to read "Don Murdock".

Don Murdock, Sr. Project Manager – Tennessee/Kentucky Market  
MasTec Network Solutions  
(615) 207-8280

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

# KY Public Service Commission

## Master Utility Search

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

Utility ID	Utility Name	Address/City/Contact	Utility Type	Status
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	Active ▾
<input type="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	A	Mountain View	CA
<a href="#">View</a>	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
<a href="#">View</a>	4106000	GreatCall, Inc. d/b/a Jitterbug	Cellular	A	San Diego	CA
<a href="#">View</a>	10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
<a href="#">View</a>	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	PIIntron 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	B	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>	4111100	ROK Mobile, Inc.	Cellular	C	Culver City	CA
<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
<a href="#">View</a>	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
<a href="#">View</a>	4002000	Truphone, Inc.	Cellular	D	Durham	NC
<a href="#">View</a>	4110300	UVNV, Inc.	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 E**  
**FAA**



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

Aeronautical Study No.  
 2017-ASO-20070-OE

Issued Date: 10/27/2017

Dave Cundiff (LA)  
 AT&T  
 208 S Akard  
 Room 1016  
 Dallas, TX 75202

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

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

Structure: Antenna Tower Wrights Ridge - 13800813  
 Location: Milton, KY  
 Latitude: 38-40-25.13N NAD 83  
 Longitude: 85-15-33.67W  
 Heights: 888 feet site elevation (SE)  
 270 feet above ground level (AGL)  
 1158 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 04/27/2019 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-20070-OE.

**Signature Control No: 345499375-347656899**

( DNE )

Jay Garver

Specialist

Attachment(s)

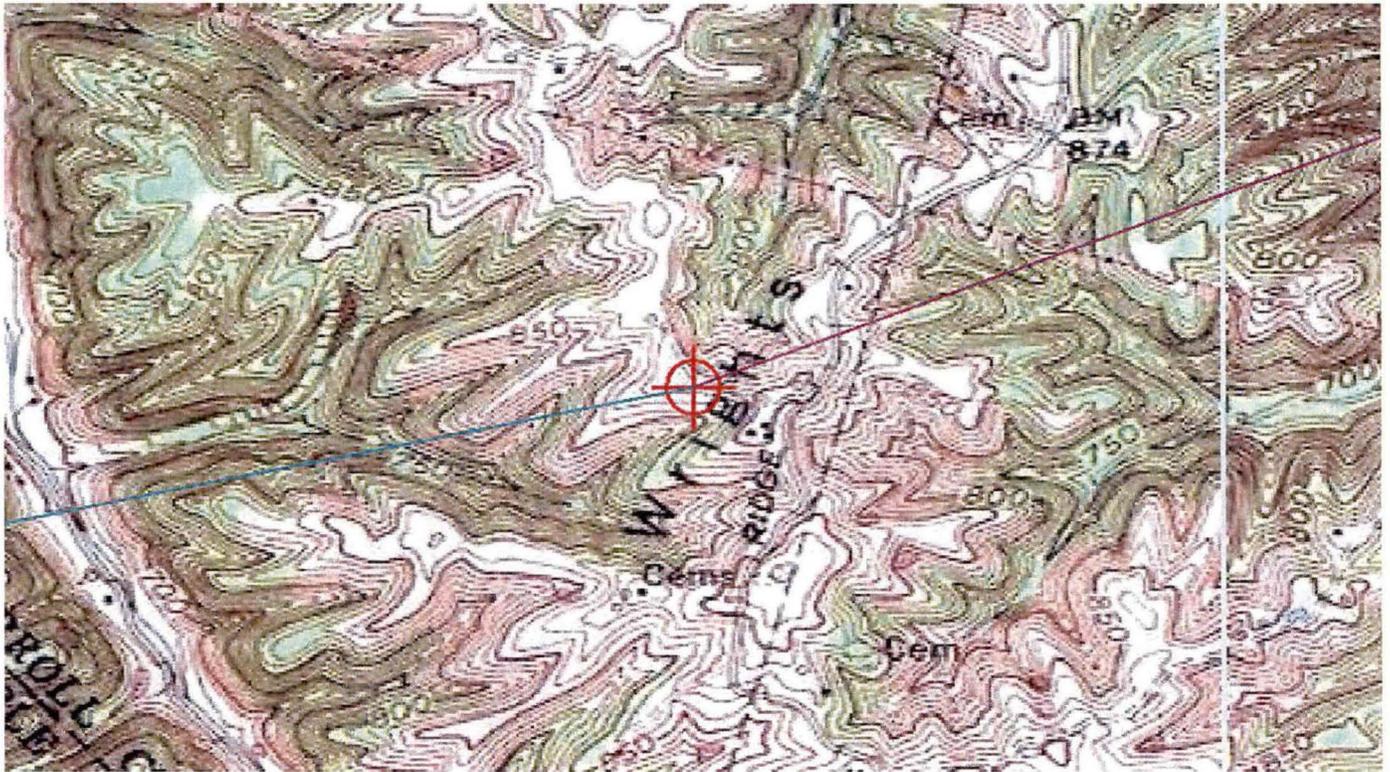
Frequency Data

Map(s)

cc: FCC

**Frequency Data for ASN 2017-ASO-20070-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



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



**KENTUCKY AIRPORT ZONING COMMISSION**

**MATTHEW BEVIN**  
Governor

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

December 28, 2017

**APPROVAL OF APPLICATION**

**APPLICANT:**

John Monday  
John Monday  
3300 E. Renner Rd B3132  
Richardson, TX 75082

**SUBJECT:** AS-021-LOU-2017-134

**STRUCTURE:** Antenna Tower  
**LOCATION:** Milton, KY  
**COORDINATES:** 38° 40' 25.13" N / 85° 15' 33.67" W  
**HEIGHT:** 270' AGL/1158' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 270' AGL/ 1158' AMSL Antenna Tower near Milton, KY 38° 40' 25.13" N / 85° 15' 33.67" 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**

December 28, 2017

AERONAUTICAL STUDY NUMBER: AS-021-LOU-2017-134

John Monday  
John Monday  
3300 E. Renner Rd B3132  
Richardson, TX 75082

This concerns the permit which was issued to you by the Kentucky Airport Zoning Commission on December 28, 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: Milton, KY  
COORDINATES: 38° 40' 25.13" N / 85° 15' 33.67" W  
HEIGHT: 270' AGL / 1158' 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 \_\_\_\_\_



An Equal Opportunity Employer M/F/D

2017-134



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) John Monday		PHONE 855-699-7073	FAX 972-907-1131	KY AERONAUTICAL STUDY # AS-021-204-2017-134	
ADDRESS (street) 3300 E. Renner Road, B3132		CITY Richardson		STATE TX	ZIP 75082
APPLICANT'S REPRESENTATIVE (name) Roy Johnson		PHONE 502-445-2475	FAX 502-222-4266		
ADDRESS (street) 3605 Mattingly Road		CITY Buckner		STATE KY	ZIP 40010
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days )				Start End TBD	
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building <input checked="" type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input type="checkbox"/> Other		MARKING/PAINTING/LIGHTING PREFERRED <input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity <input checked="" type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other			
LATITUDE 38° 40' 25.13 "		LONGITUDE 85° 15' 33.67 "		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City Milton County Carroll		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT LOU Bowman Field			
SITE ELEVATION (AMSL, feet) 888		TOTAL STRUCTURE HEIGHT (AGL, feet) 270		CURRENT (FAA aeronautical study #) 2017-ASO-20070-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1158				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 32.81 NM				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) Northeast					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) 1A and Quad attached					
DESCRIPTION OF PROPOSAL AT&T proposes to construct a 255' cell tower with a 15' lightning rod for an overall height of 270'.					
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? 10/5/17					
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 Michelle Ward		TITLE Sr. Real Estate Mgr.		SIGNATURE <i>Michelle Ward</i> DATE 10/27/17	
COMMISSION ACTION <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved SIGNATURE <i>[Signature]</i> DATE 12-28-17					

**EXHIBIT G**  
**GEO TECHNICAL REPORT**

Date: March 8, 2018

POD Job Number: 17-13276

GEOTECHNICAL  
REPORT  
**WRIGHTS RIDGE**  
**(KYL01212)**

**38° 40' 25.13" N**  
**85° 15' 33.67" W**

2126 Wrights Ridge Rd  
Milton, KY 40045

Prepared For:



Prepared By:





March 8, 2018

Ms. Michelle Ward  
AT&T  
534 Armory Place  
4<sup>th</sup> Floor  
Louisville, KY 40202

Re: Geotechnical Report – **PROPOSED 255' SELF-SUPPORT TOWER w/ 15' LIGHTNING ARRESTOR**  
Site Name: **WRIGHTS RIDGE (KYL01212)**  
Site Address: 2126 Wrights Ridge Road, Milton, Carroll County, Kentucky  
Coordinates: N38° 40' 25.13", W85° 15' 33.67"  
POD Project No. 17-13276

Dear Ms. Ward:

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

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

Cordially,

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

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



Copies submitted: (3) Ms. Michelle Ward

**LETTER OF TRANSMITTAL**

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**APPENDIX**

- BORING LOCATION PLAN
- BORING LOG
- SOIL SAMPLE CLASSIFICATION

Geotechnical Report  
**PROPOSED 255' SELF-SUPPORT TOWER w/ 15' LIGHTNING ARRESTOR**  
Site Name: **WRIGHTS RIDGE (KYL01212)**  
2126 Wrights Ridge Road, Milton, Carroll County, Kentucky  
N38° 40' 25.13", W85° 15' 33.67"

**1. PURPOSE AND SCOPE**

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

**2. PROJECT CHARACTERISTICS**

AT&T is proposing to construct a 255' self-support tower and either an equipment shelter, slab or platform at N38° 40' 25.13", W85° 15' 33.67", 2126 Wrights Ridge Road, Milton, Carroll County, Kentucky. The site is located in a field just to the east of a residence and several out buildings along Wrights Ridge Road in a rural area of Carroll County between Milton and Carrollton. The proposed lease area will be 7,500 square feet and will be accessed by an existing gravel road off Wrights Ridge Road then west to the site. The proposed elevation at the tower location is about EL 888 and there is about 8 feet of change in elevation across the proposed lease area. Surface water will run off to the southwest. The proposed tower location is shown on the Boring Location Plan in the Appendix.

**3. SUBSURFACE CONDITIONS**

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

According to the Kentucky Geological Survey, Kentucky Geologic Map Information Services, the site is underlain by the Upper Ordovician age Drake Formation. The formation is made up of dolomite and limestone and has a low karst potential.

The borings encountered about 4 inches of topsoil at the existing ground surface. Below the topsoil, the borings encountered silty clay (CL) of low plasticity to about 3.5 foot. The SPT N-values in the clay were between 43 to over 50 blows per foot (bpf) indicating a hard consistency. Highly weathered clayshale was encountered below the silty clay to

Geotechnical Report

WRIGHTS RIDGE  
March 8, 2018

auger refusal depths between 5 and 5.5 feet. Auger refusal is defined as the depth at which the boring can no longer be advanced using the current drilling method.

The refusal material was cored in Boring 1 from 5 to 25 feet below the ground surface. Dolomite that was hard, slightly weathered and olive gray was encountered. The recoveries of the rock cores were 85 to 100 percent and the RQD values were 83 and 93 percent. These values generally represent very good to excellent quality rock from a foundation support viewpoint.

Observations made at the completion of soil drilling operations indicated the boring to be dry. It must be noted, however, that short-term water readings in test borings are not necessarily a reliable indication of the actual groundwater level. Furthermore, it must be emphasized that the groundwater level is not stationary but will fluctuate seasonally.

Based on the limited subsurface conditions encountered at the site and using Table 1615.1.1 of the 2013 Kentucky Building Code, the site class is considered "B". Seismic design requirements for telecommunication towers are given in section 1622 of the code. A detailed seismic study was beyond the scope of this report.

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

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

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

**4.1. Proposed Tower**

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

**4.1.1. Drilled Piers**

The following table summarizes the recommended values for use in analyzing lateral and frictional resistance for the various strata encountered at the test boring. It is important to note that these values are estimated based on the standard penetration test results and soil types and were not directly measured. The all values provided are ultimate values and appropriate factors of safety should be used in conjunction with these values. If the piers will bear deeper than about 25 feet, a deeper boring should be drilled to determine the nature of the deeper material.

Depth Below Ground Surface, feet	0 - 2	2 - 5	5 - 25
<b>Ultimate Bearing Pressure (psf)</b>		13,800	83,000
<b>c</b> <b>Undrained Shear Strength, psf</b>	500	2,500	15,000
<b>∅</b> <b>Angle of Internal Friction degrees</b>	0	0	0
<b>Total Unit Weight, pcf</b>	110	135	135
<b>Soil Modulus Parameter</b> <b>k, pci</b>	30	1000	2000
<b>Passive Soil Pressure,</b> <b>psf/one foot of depth</b>		1,675 + 45(D-2)	10,000 + 45(D-5)
<b>Side Friction, psf</b>	100	750	1250

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

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

#### **4.1.2. Mat Foundation**

The tower could be supported on a common mat foundation bearing on the highly weathered clay shale at least 3 feet in depth can be designed using a net allowable bearing pressure of 6,000 pounds per square foot may be used. For a mat bearing on the hard dolomite at about 5 feet, a net allowable bearing pressure of 20,000 psf can be used. This value may be increased by 30 percent for the maximum edge pressure under transient loads. The friction value can be increased to 0.40 between the concrete and bedrock. The passive pressures given for the drilled pier foundation may be used to resist lateral forces.

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

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

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

An equipment platform may be supported on shallow piers bearing in the natural clay and designed for a net allowable soil pressure of 3,000 pounds per square foot. The piers should bear at a depth of at least 30 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

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

A concrete slab supporting the equipment must be supported on at least 6-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 6 in. of granular material is placed below the slab, a modulus of subgrade reaction (k) of 130 lbs/cu.in. can be used for design of the slab. All existing topsoil or soft natural soil should be removed beneath crushed stone layer.

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

If an equipment building support on a slab is chosen in place of the equipment platform, it may be supported on shallow spread footings bearing in the natural clay soil and designed for a net allowable soil pressure of 3,000 pounds per square foot.

The footings should be at least ten inches wide. If the footings bear on soil they should bear at a depth of at least 30 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

Floor slabs must be supported on at least 4-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 4 in. of granular material is placed below the slab, a modulus of subgrade reaction (k) of 130 lbs/cu.in. can be used for design of the floor slabs.

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

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

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

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

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

### 5.1 Drilled Piers

The following recommendations are recommended for drilled pier construction:

- Clean the foundation bearing area so it is nearly level or suitably benched and is free of ponded water or loose material.
- Make provisions for ground water removal from the drilled shaft excavation. While groundwater was not encountered during the soil drilling, some significant seepage may be encountered. The drilled pier contractor should have pumps on hand to remove water from the drilled pier.
- Specify concrete slumps ranging from 4 to 7 inches for the drilled shaft construction. These slumps are recommended to fill irregularities along the sides and bottom of the drilled hole, displace water as it is placed, and permit placement of reinforcing cages into the fluid concrete.
- Retain the geotechnical engineer to observe foundation excavations after the bottom of the hole is leveled, cleaned of any mud or extraneous material, and dewatered.
- Install a temporary protective steel casing to prevent side wall collapse, prevent excessive mud and water intrusion in the drilled shaft.
- The protective steel casing may be extracted as the concrete is placed provided a sufficient head of concrete is maintained inside the steel casing to prevent soil or water intrusion into the newly placed concrete.
- Direct the concrete placement into the drilled hole through a centering chute to reduce side flow or segregation.

### 5.2 Fill Compaction

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

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

### **5.3 Construction Dewatering**

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

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

## **6 FIELD INVESTIGATION**

Three soil test boring was drilled near the base of the proposed tower. Split-spoon samples were obtained by the Standard Penetration Test (SPT) procedure (ASTM D1586) in all test borings. The borings encountered auger refusal from about 5 to 5.5 feet. A rock core of the refusal material was taken in Boring 1 from 5 to 25 feet. The split-spoon samples were inspected and visually classified by a geotechnical engineer. Representative portions of the soil samples were sealed in glass jars and returned to our laboratory.

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

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

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

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

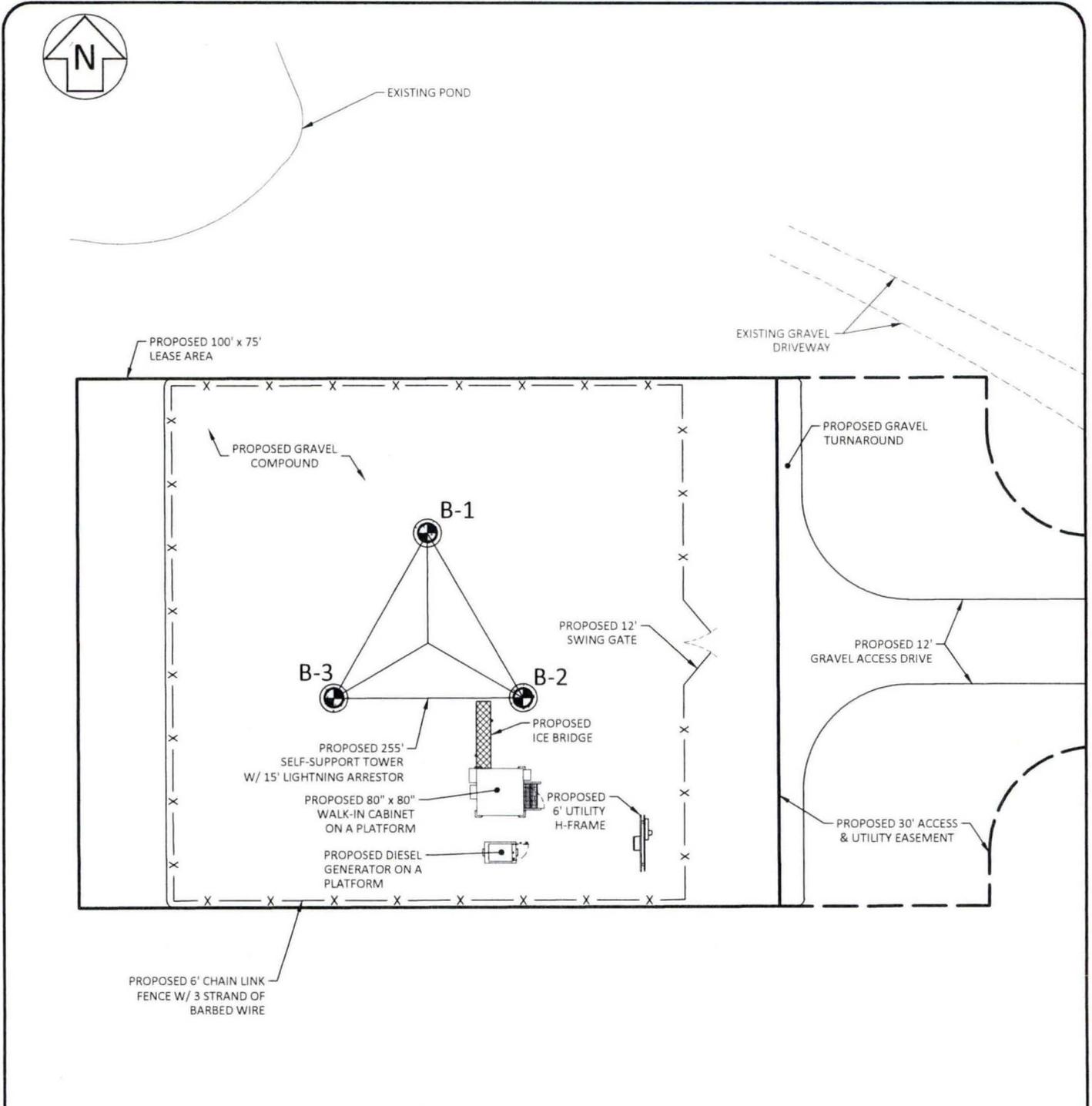
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions and to check that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

## **APPENDIX**

**BORING LOCATION PLAN**

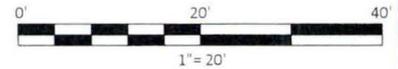
**BORING LOG**

**SOIL SAMPLE CLASSIFICATION**



**LEGEND**

 BORING LOCATION



SHEET TITLE: <b>BORING LOCATION PLAN</b>	SITE NUMBER: <b>KYL01212</b>	SITE INFORMATION: <b>WRIGHTS RIDGE</b> 2126 WRIGHTS RIDGE ROAD MILTON, KY 40045 CARROLL COUNTY	 11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 502-437-5252
	LATITUDE: 38° 40' 25.13"N LONGITUDE: 85° 15' 33.67"W		
SHEET NUMBER: <b>1</b>	DRAWN BY: KDP CHECKED BY: MEP DATE: 2.16.18		

	<h2 style="margin:0;">Boring Log</h2>	<b>Boring: B-1</b>  <b>Page 1 of 1</b>
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<b>Project:</b> <b>Wrights Ridge</b>	<b>City, State:</b> <b>Milton, KY</b>
--------------------------------------	---------------------------------------

<b>Method:</b> <b>H.S.A.</b>	<b>Boring Date:</b> <b>13-Feb-18</b>	<b>Location:</b> <b>Proposed Tower</b>
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<b>Inside Diameter:</b> <b>3 1/4"</b>	<b>Drill Rig Type:</b> <b>CME - 750 ATV</b>	<b>Hammer Type:</b> <b>Auto</b>
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<b>Groundwater:</b> <b>DRY</b>	<b>Weather:</b>
--------------------------------	-----------------

<b>Driller:</b> <b>GeoTill Engineering</b>	<b>Note:</b> <b>About 4 inches of topsoil was encountered at the ground surface</b>
--	---

From (ft)	To (ft)	Material Description		Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength,
0.3	3.5	SILTY CLAY (CL) - hard, orange tan		1-2.5	SS	12, 50,	10	50,					
3.5	5.0			CLAYSHALE - highly weathered, olive tan	3.5 -5	SS	50,	4	50,				
5.0	25.0	DOLOMITE - hard, slightly weathered, olive gray		5-15	RC		102		83%				
				15-25	RC			120		93%			
		Boring Terminated at 25 feet											

	<h2 style="margin:0;">Boring Log</h2>	<b>Boring: B-2</b>  <b>Page 1 of 1</b>
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<b>Project:</b> <b>Wrights Ridge</b>	<b>City, State</b> <b>Milton, KY</b>
--------------------------------------	--------------------------------------

<b>Method:</b> <b>H.S.A.</b>	<b>Boring Date:</b> <b>13-Feb-18</b>	<b>Location:</b> <b>Proposed Tower</b>
------------------------------	--------------------------------------	--

<b>Inside Diameter:</b> <b>3 1/4"</b>	<b>Drill Rig Type:</b> <b>CME - 750 ATV</b>	<b>Hammer Type:</b> <b>Auto</b>
---------------------------------------	---	---------------------------------

<b>Groundwater:</b> <b>DRY</b>	<b>Weather:</b>
--------------------------------	-----------------

<b>Driller:</b> <b>GeoTill Engineering</b>	<b>Note:</b> <b>About 4 inches of topsoil was encountered at the ground surface</b>
--	---

From (ft)	To (ft)	Material Description		Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength.
0.3	3.5	SILTY CLAY (CL) - hard, tan-orange tan mottled		1-2.5	SS	5, 8, 35	18	43,					
3.5	5.5	CLAYSHALE - highly weathered, olive tan		3.5 -5	SS	50,	5	50,					
<b>Auger Refusal at 5.5 feet</b>													

	<h2 style="margin:0;">Boring Log</h2>	<b>Boring: B-3</b>  <b>Page 1 of 1</b>
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<b>Project:</b> <b>Wrights Ridge</b>	<b>City, State</b> <b>Milton, KY</b>
--------------------------------------	--------------------------------------

<b>Method:</b> <b>H.S.A.</b>	<b>Boring Date:</b> <b>13-Feb-18</b>	<b>Location:</b> <b>Proposed Tower</b>
------------------------------	--------------------------------------	--

<b>Inside Diameter:</b> <b>3 1/4"</b>	<b>Drill Rig Type:</b> <b>CME - 750 ATV</b>	<b>Hammer Type:</b> <b>Auto</b>
---------------------------------------	---	---------------------------------

<b>Groundwater:</b> <b>DRY</b>	<b>Weather:</b>
--------------------------------	-----------------

<b>Driller:</b> <b>GeoTill Engineering</b>	<b>Note:</b> <b>About 4 inches of topsoil was encountered at the ground surface</b>
--	---

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength,
0.3	3.5	SILTY CLAY (CL) - hard, tan-orange tan mottled	1-2.5	SS	50,	2	50,					
3.5	5.0	CLAYSHALE - highly weathered, olive tan	3.5 -5	SS	50,	2	50,					
<b>Auger Refusal at 5 feet</b>												

**SOIL SAMPLE CLASSIFICATION**

**FINE AND COARSE GRAINED SOIL INFORMATION**

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

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

**ROCK PROPERTIES**

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

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

**SYMBOLS**

**KEY TO MATERIAL TYPES**

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

ROCKS	
Symbols	Typical Names
	Limestone or Dolomite
	Shale
	Sandstone

**SOIL PROPERTY SYMBOLS**

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

**SAMPLING SYMBOLS**

SS Split Spoon Sample

Relatively Undisturbed Sample

Rock Core Sample

**EXHIBIT H**  
**DIRECTIONS TO WCF SITE**

**Site Name: Wrights Ridge**  
**Driving Directions to Proposed Tower Site**

1. Beginning at the offices of the County Judge/Executive located at 440 Main Street, Carrollton, Kentucky.
2. Start out going west on Main St toward Court Street.
3. Take the 1st left onto Court Street.
4. Turn right onto Highland Ave/US-42 W/KY-36. Continue to follow KY-36.
5. Turn left onto Notchlick Road.
6. Take the 1st right onto Wrights Ridge Road.
7. Arrive at 2126 Wrights Ridge Rd, Milton, Kentucky.
8. The site coordinates are 38°40'25.13" North latitude, 85°15'33.67" West longitude.



Prepared by:  
Robert W. Grant  
Pike Legal Group PLLC  
1578 Highway 44 East, Suite 6  
P.O. Box 369  
Shepherdsville, KY 40165-3069  
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**EXHIBIT I**  
**COPY OF REAL ESTATE AGREEMENT**

Market: Louisville  
Cell Site Number: KYL01212  
Cell Site Name: Wright's Ridge  
Fixed Asset Number: 13800813

## OPTION AND LEASE AGREEMENT

THIS OPTION AND LEASE AGREEMENT ("**Agreement**"), dated as of the latter of the signature dates below (the "**Effective Date**"), is entered into by Foster B. Helm, an individual, having a mailing address of 2126 Wrights Ridge Road, Milton, KY 40045 ("**Landlord**") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 575 Morosgo Drive NE, Atlanta, GA 30324 ("**Tenant**").

### BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, as described on **Exhibit 1**, together with all rights and privileges arising in connection therewith, located at 2126 Wrights Ridge Road, Milton, KY, 40045 in the County of Carroll, State of Kentucky (collectively, the "**Property**"). Tenant desires to use a portion of the Property in connection with its federally licensed communications business. Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

1. **OPTION TO LEASE.**

(a) Landlord grants to Tenant an option (the "**Option**") to lease a certain portion of the Property containing approximately 10,000 square feet including the air space above such ground space, as described on attached **Exhibit 1** (the "**Premises**"), for the placement of Tenant's Communication Facility.

(b) During the Option Term, and during the term of this Agreement, Tenant and its agents, engineers, surveyors and other representatives will have the right to enter upon the Property to inspect, examine, conduct soil borings, drainage testing, material sampling, radio frequency testing and other geological or engineering tests or studies of the Property (collectively, the "**Tests**"), to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant's sole discretion for its use of the Premises and include, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively, the "**Government Approvals**"), initiate the ordering and/or scheduling of necessary utilities, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Property, the environmental history of the Property, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use, all at Tenant's expense. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant's inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Option Term, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted.

(c) In consideration of Landlord granting Tenant the Option, Tenant agrees to pay Landlord the sum of [REDACTED] within forty five (45) business days of the Effective Date. The Option will be for an initial term of one (1) year commencing on the Effective Date (the "**Initial Option Term**") and may be renewed by Tenant for an additional one (1) year (the "**Renewal Option Term**") upon written notification to Landlord and the payment of an additional [REDACTED] no later than five (5) days prior to the expiration date of the Initial Option Term. The Initial Option Term and any Renewal Option Term are collectively referred to as the "**Option Term**."

(d) The Option may be sold, assigned or transferred at any time by Tenant to an Affiliate (as that term is hereinafter defined) of Tenant or to any third party agreeing to be subject to the terms hereof. Otherwise, the Option may not be sold, assigned or transferred without the written consent of Landlord, such consent not to

be unreasonably withheld, conditioned or delayed. From and after the date the Option has been sold, assigned or transferred by Tenant to an Affiliate or a third party agreeing to be subject to the terms hereof, Tenant shall immediately be released from any and all liability under this Agreement, including the payment of any rental or other sums due, without any further action.

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

(f) If during the Option Term, or during the term of this Agreement the Option is exercised, Landlord decides to subdivide, sell, or change the status of the zoning of the Premises, Property or any of Landlord's contiguous, adjoining or surrounding property (the "**Surrounding Property**," ) or in the event of foreclosure, Landlord shall immediately notify Tenant in writing. Landlord agrees that during the Option Term, or during the Term of this Agreement if the Option is exercised, Landlord shall not initiate or consent to any change in the zoning of the Premises, Property or Surrounding Property or impose or consent to any other use or restriction that would prevent or limit Tenant from using the Premises for the Permitted Use. Any and all terms and conditions of this Agreement that by their sense and context are intended to be applicable during the Option Term shall be so applicable.

2. **PERMITTED USE.** Tenant may use the Premises for the transmission and reception of communications signals and the installation, construction, maintenance, operation, repair, replacement and upgrade of its communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable support structure, associated antennas, equipment shelters or cabinets and fencing and any other items necessary to the successful and secure use of the Premises (collectively, the "**Communication Facility**"), as well as the right to test, survey and review title on the Property; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord (collectively, the "**Permitted Use**"). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on **Exhibit 1** will not be deemed to limit Tenant's Permitted Use. If **Exhibit 1** includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of **Exhibit 1**. For a period of ninety (90) days following the start of construction, Landlord grants Tenant, its subtenants, licensees and sublicensees, the right to use such portions of Landlord's contiguous, adjoining or Surrounding Property as described on **Exhibit 1** as may reasonably be required during construction and installation of the Communication Facility. Tenant has the right to install and operate transmission cables from the equipment shelter or cabinet to the antennas, electric lines from the main feed to the equipment shelter or cabinet and communication lines from the Property's main entry point to the equipment shelter or cabinet, and to make other improvements, alterations, upgrades or additions appropriate for Tenant's Permitted Use, including the right to construct a fence around the Premises and undertake any other appropriate means to secure the Premises at Tenant's expense. Tenant has the right to modify, supplement, replace, upgrade, expand the equipment, increase the number of antennas or relocate the Communication Facility within the Premises at any time during the term of this Agreement. Tenant will be allowed to make such alterations to the Property in order to ensure that Tenant's Communication Facility complies with all applicable federal, state or local laws, rules or regulations.

3. **TERM.**

(a) The initial lease term will be five (5) years (the "**Initial Term**"), commencing on the effective date of written notification by Tenant to Landlord of Tenant's exercise of the Option (the "**Term Commencement Date**"). The Initial Term will terminate on the fifth (5<sup>th</sup>) anniversary of the Term Commencement Date.

(b) This Agreement will automatically renew for four (4) additional five (5) year term(s) (each five (5) year term shall be defined as an "**Extension Term**"), upon the same terms and conditions unless Tenant

notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the Initial Term or then-existing Extension Term.

(c) Unless (i) Landlord or Tenant notifies the other in writing of its intention to terminate this Agreement at least six (6) months prior to the expiration of the final Extension Term, or (ii) the Agreement is terminated as otherwise permitted by this Agreement prior to the end of the final Extension Term, then upon the expiration of the final Extension Term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter ("**Annual Term**") until terminated by either party by giving to the other written notice of its intention to so terminate at least six (6) months prior to the end of any such Annual Term. Monthly rental during such Annual Terms shall be equal to the Rent paid for the last month of the final Extension Term. If Tenant remains in possession of the Premises after the termination of this Agreement, then Tenant will be deemed to be occupying the Premises on a month-to-month basis (the "**Holdover Term**"), subject to the terms and conditions of this Agreement.

(d) The Initial Term, any Extension Terms, any Annual Terms and any Holdover Term are collectively referred to as the Term (the "**Term**").

#### 4. **RENT.**

(a) Commencing on the first day of the month following the date that Tenant commences construction (the "**Rent Commencement Date**"). Tenant will pay Landlord on or before the fifth (5<sup>th</sup>) day of each calendar month in advance [REDACTED] (the "**Rent**"), at the address set forth above. In any partial month occurring after the Rent Commencement Date, Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within forty-five (45) days after the Rent Commencement Date.

(b) In year one (1) of each Extension Term, the monthly Rent will increase by [REDACTED] over the Rent paid during the previous five (5) year term.

(c) All charges payable under this Agreement such as utilities and taxes shall be billed by Landlord within one (1) year from the end of the calendar year in which the charges were incurred; any charges beyond such period shall not be billed by Landlord, and shall not be payable by Tenant. The foregoing shall not apply to monthly Rent which is due and payable without a requirement that it be billed by Landlord. The provisions of this subsection shall survive the termination or expiration of this Agreement.

#### 5. **APPROVALS.**

(a) Landlord agrees that Tenant's ability to use the Premises is contingent upon the suitability of the Premises and Property for Tenant's Permitted Use and Tenant's ability to obtain and maintain all Government Approvals. Landlord authorizes Tenant to prepare, execute and file all required applications to obtain Government Approvals for Tenant's Permitted Use under this Agreement and agrees to reasonably assist Tenant with such applications and with obtaining and maintaining the Government Approvals.

(b) Tenant has the right to obtain a title report or commitment for a leasehold title policy from a title insurance company of its choice and to have the Property surveyed by a surveyor of its choice.

(c) Tenant may also perform and obtain, at Tenant's sole cost and expense, soil borings, percolation tests, engineering procedures, environmental investigation or other tests or reports on, over, and under the Property, necessary to determine if Tenant's use of the Premises will be compatible with Tenant's engineering specifications, system, design, operations or Government Approvals.

#### 6. **TERMINATION.** This Agreement may be terminated, without penalty or further liability, as follows:

(a) by either party on thirty (30) days prior written notice, if the other party remains in default under Section 15 of this Agreement after the applicable cure periods;

(b) by Tenant upon written notice to Landlord, if Tenant is unable to obtain or maintain, any required approval(s) or the issuance of a license or permit by any agency, board, court or other governmental authority necessary for the construction or operation of the Communication Facility as now or hereafter intended by Tenant; or if Tenant determines, in its sole discretion that the cost of or delay in obtaining or retaining the same is commercially unreasonable;

- (c) by Tenant, upon written notice to Landlord, if Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory for its intended uses;
- (d) by Tenant upon written notice to Landlord for any reason or no reason, at any time prior to commencement of construction by Tenant; or
- (e) by Tenant upon sixty (60) days' prior written notice to Landlord for any reason or no reason, so long as Tenant pays Landlord a termination fee equal to three (3) months' Rent, at the then-current rate, provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Tenant under any termination provision contained in any other Section of this Agreement, including the following: 5 Approvals, 6(a) Termination, 6(b) Termination, 6(c) Termination, 6(d) Termination, 11(d) Environmental, 18 Condemnation, or 19 Casualty.

7. **INSURANCE.**

(a) During the Term, Tenant will carry, at its own cost and expense, the following insurance: (i) workers' compensation insurance as required by law; and (ii) commercial general liability (CGL) insurance with respect to its activities on the Property, such insurance to afford protection of up to [REDACTED] per occurrence and [REDACTED] general aggregate, based on Insurance Services Office (ISO) Form CG 00 01 or a substitute form providing substantially equivalent coverage. Tenant's CGL insurance shall contain a provision including Landlord as an additional insured. Such additional insured coverage:

(i) shall be limited to bodily injury, property damage or personal and advertising injury caused, in whole or in part, by Tenant, its employees, agents or independent contractors;

(ii) shall not extend to claims for punitive or exemplary damages arising out of the acts or omissions of Landlord, its employees, agents or independent contractors or where such coverage is prohibited by law or to claims arising out of the gross negligence of Landlord, its employees, agents or independent contractors; and

(iii) shall not exceed Tenant's indemnification obligation under this Agreement, if any.

(b) Notwithstanding the foregoing, Tenant shall have the right to self-insure the coverages required in subsection (a). In the event Tenant elects to self-insure its obligation to include Landlord as an additional insured, the following provisions shall apply (in addition to those set forth in subsection (a)):

(i) Landlord shall promptly and no later than thirty (30) days after notice thereof provide Tenant with written notice of any claim, demand, lawsuit, or the like for which it seeks coverage pursuant to this Section and provide Tenant with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like;

(ii) Landlord shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of Tenant; and

(iii) Landlord shall fully cooperate with Tenant in the defense of the claim, demand, lawsuit, or the like.

**8. INTERFERENCE.**

(a) Prior to or concurrent with the execution of this Agreement, Landlord has provided or will provide Tenant with a list of radio frequency user(s) and frequencies used on the Property as of the Effective Date. Tenant warrants that its use of the Premises will not interfere with those existing radio frequency uses on the Property, as long as those existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations.

(b) Landlord will not grant, after the date of this Agreement, a lease, license or any other right to any third party, if the exercise of such grant may in any way adversely affect or interfere with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will notify Tenant in writing prior to granting any third party the right to install and operate communications equipment on the Property.

(c) Landlord will not, nor will Landlord permit its employees, tenants, licensees, invitees, agents or independent contractors to, interfere in any way with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will cause such interference to cease within twenty-four (24) hours after receipt of notice of interference from Tenant. In the event any such interference does not cease within the aforementioned cure period, Landlord shall cease all operations which are suspected of causing interference (except for intermittent testing to determine the cause of such interference) until the interference has been corrected.

(d) For the purposes of this Agreement, "interference" may include, but is not limited to, any use on the Property or Surrounding Property that causes electronic or physical obstruction with, or degradation of, the communications signals from the Communication Facility.

**9. INDEMNIFICATION.**

(a) Tenant agrees to indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) arising directly from the installation, use, maintenance, repair or removal of the Communication Facility or Tenant's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Landlord, its employees, agents or independent contractors.

(b) Landlord agrees to indemnify, defend and hold Tenant harmless from and against any and all injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) arising directly from the actions or failure to act of Landlord, its employees or agents, or Landlord's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Tenant, its employees, agents or independent contractors.

(c) The indemnified party: (i) shall promptly provide the indemnifying party with written notice of any claim, demand, lawsuit, or the like for which it seeks indemnification pursuant to this Section and provide the indemnifying party with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like; (ii) shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of the indemnifying party; and (iii) shall fully cooperate with the indemnifying party in the defense of the claim, demand, lawsuit, or the like. A delay in notice shall not relieve the indemnifying party of its indemnity obligation, except (1) to the extent the indemnifying party can show it was prejudiced by the delay; and (2) the indemnifying party shall not be liable for any settlement or litigation expenses incurred before the time when notice is given.

**10. WARRANTIES.**

(a) Tenant and Landlord each acknowledge and represent that it is duly organized, validly existing and in good standing and has the right, power and authority to enter into this Agreement and bind itself hereto through the party set forth as signatory for the party below.

(b) Landlord represents, warrants and agrees that: (i) Landlord solely owns the Property as a legal lot in fee simple, or controls the Property by lease or license; (ii) the Property is not and will not be encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Tenant's Permitted Use and enjoyment of the Premises under this

Agreement; (iii) as long as Tenant is not in default then Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises without hindrance or ejection by any persons lawfully claiming under Landlord; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on Landlord; and (v) if the Property is or becomes encumbered by a deed to secure a debt, mortgage or other security interest, Landlord will provide promptly to Tenant a mutually agreeable subordination, non-disturbance and attornment agreement executed by Landlord and the holder of such security interest.

#### **11. ENVIRONMENTAL.**

(a) Landlord represents and warrants that, except as may be identified in **Exhibit 11** attached to this Agreement, (i) the Property, as of the date of this Agreement, is free of hazardous substances, including asbestos-containing materials and lead paint, and (ii) the Property has never been subject to any contamination or hazardous conditions resulting in any environmental investigation, inquiry or remediation. Landlord and Tenant agree that each will be responsible for compliance with any and all applicable governmental laws, rules, statutes, regulations, codes, ordinances, or principles of common law regulating or imposing standards of liability or standards of conduct with regard to protection of the environment or worker health and safety, as may now or at any time hereafter be in effect, to the extent such apply to that party's activity conducted in or on the Property.

(b) Landlord and Tenant agree to hold harmless and indemnify the other from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of the indemnifying party for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding ("**Claims**"), to the extent arising from that party's breach of its obligations or representations under Section 11(a). Landlord agrees to hold harmless and indemnify Tenant from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Landlord for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from subsurface or other contamination of the Property with hazardous substances prior to the effective date of this Agreement or from such contamination caused by the acts or omissions of Landlord during the Term. Tenant agrees to hold harmless and indemnify Landlord from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Tenant for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from hazardous substances brought onto the Property by Tenant.

(c) The indemnifications of this Section 11 specifically include reasonable costs, expenses and fees incurred in connection with any investigation of Property conditions or any clean-up, remediation, removal or restoration work required by any governmental authority. The provisions of this Section 11 will survive the expiration or termination of this Agreement.

(d) In the event Tenant becomes aware of any hazardous substances on the Property, or any environmental, health or safety condition or matter relating to the Property, that, in Tenant's sole determination, renders the condition of the Premises or Property unsuitable for Tenant's use, or if Tenant believes that the leasing or continued leasing of the Premises would expose Tenant to undue risks of liability to a government agency or other third party, Tenant will have the right, in addition to any other rights it may have at law or in equity, to terminate this Agreement upon written notice to Landlord.

**12. ACCESS.** At all times throughout the Term of this Agreement, and at no additional charge to Tenant, Tenant and its employees, agents, and subcontractors, will have twenty-four (24) hour per day, seven (7) day per week pedestrian and vehicular access ("**Access**") to and over the Property, from an open and improved public road to the Premises, for the installation, maintenance and operation of the Communication Facility and any utilities serving the Premises. As may be described more fully in **Exhibit 1**, Landlord grants to Tenant an easement for such Access and Landlord agrees to provide to Tenant such codes, keys and other instruments necessary for such Access at no additional cost to Tenant. Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. Landlord shall execute a letter granting Tenant Access to the Property substantially in the form attached as **Exhibit 12**; upon Tenant's request, Landlord shall execute additional letters during the Term. Landlord acknowledges that in the event Tenant cannot obtain Access to the

Premises, Tenant shall incur significant damage. If Landlord fails to provide the Access granted by this Section 12, such failure shall be a default under this Agreement. In connection with such default, in addition to any other rights or remedies available to Tenant under this Agreement or at law or equity, Landlord shall pay Tenant, as liquidated damages and not as a penalty, \$500.00 per day in consideration of Tenant's damages until Landlord cures such default. Landlord and Tenant agree that Tenant's damages in the event of a denial of Access are difficult, if not impossible, to ascertain, and the liquidated damages set forth above are a reasonable approximation of such damages.

13. **REMOVAL/RESTORATION.** All portions of the Communication Facility brought onto the Property by Tenant will be and remain Tenant's personal property and, at Tenant's option, may be removed by Tenant at any time during the Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of the Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of the Tenant and may be removed by Tenant at any time during the Term. Within one hundred twenty (120) days after the termination of this Agreement, Tenant will, to the extent reasonable, restore the Premises to its condition at the commencement of the Agreement, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted. Footings, foundations, and concrete will be removed to a depth of two-foot below grade. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs, or other vegetation, nor will Tenant be required to remove from the Premises or the Property any underground utilities.

14. **MAINTENANCE/UTILITIES.**

(a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. Landlord will maintain and repair the Property and access thereto and all areas of the Premises where Tenant does not have exclusive control, in good and tenantable condition, subject to reasonable wear and tear and damage from the elements. Landlord will be responsible for maintenance of landscaping on the Property, including any landscaping installed by Tenant as a condition of this Agreement or any required permit. Notwithstanding the foregoing, Tenant shall be responsible for the construction, maintenance, and upkeep of any Tenant constructed access road installed on the Property to the Communication Facility.

(b) Tenant will be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises. In the event Tenant cannot secure its own metered electrical supply, Tenant will have the right, at its own cost and expense, to submeter from Landlord. When submetering is required under this Agreement, Landlord will read the meter and provide Tenant with an invoice and usage data on a monthly basis. Landlord agrees that it will not include a markup on the utility charges. Landlord further agrees to provide the usage data and invoice on forms provided by Tenant and to send such forms to such address and/or agent designated by Tenant. Tenant will remit payment within forty-five (45) days of receipt of the usage data and required forms. As noted in Section 4(c) above, any utility fee recovery by Landlord is limited to a twelve (12) month period. If Tenant submeters electricity from Landlord, Landlord agrees to give Tenant at least twenty-four (24) hours advance notice of any planned interruptions of said electricity. Landlord acknowledges that Tenant provides a communication service which requires electrical power to operate and must operate twenty-four (24) hours per day, seven (7) days per week. If the interruption is for an extended period of time, in Tenant's reasonable determination, Landlord agrees to allow Tenant the right to bring in a temporary source of power for the duration of the interruption. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.

(c) Landlord hereby grants to any company providing utility or similar services, including electric power and telecommunications, to Tenant an easement over the Property, from an open and improved public road to the Premises, and upon the Premises, for the purpose of constructing, operating and maintaining such lines, wires, circuits, and conduits, associated equipment cabinets and such appurtenances thereto, as such

companies may from time to time require in order to provide such services to the Premises. Upon Tenant's or the service company's request, Landlord will execute a separate recordable easement evidencing this grant, at no cost to Tenant or the service company.

**15. DEFAULT AND RIGHT TO CURE.**

(a) The following will be deemed a default by Tenant and a breach of this Agreement: (i) non-payment of Rent if such Rent remains unpaid for more than thirty (30) days after written notice from Landlord of such failure to pay; or (ii) Tenant's failure to perform any other term or condition under this Agreement within forty-five (45) days after written notice from Landlord specifying the failure. No such failure, however, will be deemed to exist if Tenant has commenced to cure such default within such period and provided that such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Tenant. If Tenant remains in default beyond any applicable cure period, Landlord will have the right to exercise any and all rights and remedies available to it under law and equity.

(b) The following will be deemed a default by Landlord and a breach of this Agreement: (i) Landlord's failure to provide Access to the Premises as required by Section 12 of this Agreement within twenty-four (24) hours after written notice of such failure; (ii) Landlord's failure to cure an interference problem as required by Section 8 of this Agreement within twenty-four (24) hours after written notice of such failure; or (iii) Landlord's failure to perform any term, condition or breach of any warranty or covenant under this Agreement within forty-five (45) days after written notice from Tenant specifying the failure. No such failure, however, will be deemed to exist if Landlord has commenced to cure the default within such period and provided such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Landlord. If Landlord remains in default beyond any applicable cure period, Tenant will have: (i) the right to cure Landlord's default and to deduct the costs of such cure from any monies due to Landlord from Tenant, and (ii) any and all other rights available to it under law and equity.

**16. ASSIGNMENT/SUBLEASE.** Tenant will have the right to assign, sell or transfer its interest under this Agreement, in whole or part, without Landlord's consent, to: (a) Tenant's Affiliate, (b) to any entity with a net worth of at least Twenty Million Dollars (\$20,000,000) or (c) any entity that acquires all or substantially all of the Tenant's assets in the market as defined by the Federal Communications Commission in which the Property is located. Upon notification to Landlord of such assignment, transfer or sale, Tenant will be relieved of all future performance, liabilities and obligations under this Agreement. Tenant shall have the right to sublease the Premises, in whole or in part, without Landlord's consent. Tenant may not otherwise assign this Agreement without Landlord's consent, Landlord's consent not to be unreasonably withheld, conditioned or delayed.

**17. NOTICES.** All notices, requests and demands hereunder will be given by first class certified or registered mail, return receipt requested, or by a nationally recognized overnight courier, postage prepaid, to be effective when properly sent and received, refused or returned undelivered. Notices will be addressed to the parties as follows:

If to Tenant:                   New Cingular Wireless PCS, LLC  
  Attn: Network Real Estate Administration  
  Re: Cell Site #KYL01212; Cell Site Name: Wright's Ridge (KY)  
  Fixed Asset No.: 13800813  
  575 Morosgo Drive NE  
  Atlanta, GA 30324

With a copy to:

New Cingular Wireless PCS, LLC  
Attn: Legal Department  
Re: Cell Site #KYL01212; Cell Site Name: Wright's Ridge (KY)  
Fixed Asset No.: 13800813  
208 S. Akard Street  
Dallas, TX 75202-4206

The copy sent to the Legal Department is an administrative step which alone does not constitute legal notice.

If to Landlord: Foster Helm  
2126 Wrights Ridge Road  
Milton, KY 40045

Either party hereto may change the place for the giving of notice to it by thirty (30) days' prior written notice to the other as provided herein.

**18. CONDEMNATION.** In the event Landlord receives notification of any condemnation proceedings affecting the Property, Landlord will provide notice of the proceeding to Tenant within forty-eight (48) hours. If a condemning authority takes all of the Property, or a portion sufficient, in Tenant's sole determination, to render the Premises unsuitable for Tenant, this Agreement will terminate as of the date the title vests in the condemning authority. The parties will each be entitled to pursue their own separate awards in the condemnation proceeds, which for Tenant will include, where applicable, the value of its Communication Facility, moving expenses, prepaid Rent, and business dislocation expenses. Tenant will be entitled to reimbursement for any prepaid Rent on a prorata basis.

**19. CASUALTY.** Landlord will provide notice to Tenant of any casualty or other harm affecting the Property within forty-eight (48) hours of the casualty or other harm. If any part of the Communication Facility or Property is damaged by casualty or other harm as to render the Premises unsuitable, in Tenant's sole determination, then Tenant may terminate this Agreement by providing written notice to Landlord, which termination will be effective as of the date of such casualty or other harm. Upon such termination, Tenant will be entitled to collect all insurance proceeds payable to Tenant on account thereof and to be reimbursed for any prepaid Rent on a prorata basis. Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property, but only until such time as Tenant is able to activate a replacement transmission facility at another location; notwithstanding the termination of the Agreement, such temporary facilities will be governed by all of the terms and conditions of this Agreement, including Rent. If Landlord or Tenant undertakes to rebuild or restore the Premises and/or the Communication Facility, as applicable, Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property at no additional Rent until the reconstruction of the Premises and/or the Communication Facility is completed. If Landlord determines not to rebuild or restore the Property, Landlord will notify Tenant of such determination within thirty (30) days after the casualty or other harm. If Landlord does not so notify Tenant, and Tenant decides not to terminate under this Section, then Landlord will promptly rebuild or restore any portion of the Property interfering with or required for Tenant's Permitted Use of the Premises to substantially the same condition as existed before the casualty or other harm. Landlord agrees that the Rent shall be abated until the Property and/or the Premises are rebuilt or restored, unless Tenant places temporary transmission and reception facilities on the Property.

**20. WAIVER OF LANDLORD'S LIENS.** Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility or any portion thereof. The Communication Facility shall be deemed personal property for purposes of this Agreement, regardless of whether any portion is deemed real or

personal property under applicable law; Landlord consents to Tenant's right to remove all or any portion of the Communication Facility from time to time in Tenant's sole discretion and without Landlord's consent.

## 21. TAXES.

(a) Landlord shall be responsible for timely payment of all taxes and assessments levied upon the lands, improvements and other property of Landlord, including any such taxes that may be calculated by the taxing authority using any method, including the income method. Tenant shall be responsible for any taxes and assessments attributable to and levied upon Tenant's leasehold improvements on the Premises if and as set forth in this Section 21. Nothing herein shall require Tenant to pay any inheritance, franchise, income, payroll, excise, privilege, rent, capital stock, stamp, documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Landlord.

(b) In the event Landlord receives a notice of assessment with respect to which taxes or assessments are imposed on Tenant's leasehold improvements on the Premises, Landlord shall provide Tenant with copies of each such notice immediately upon receipt, but in no event later than thirty (30) days after the date of such notice of assessment. If Landlord does not provide such notice or notices to Tenant within such time period, Landlord shall be responsible for payment of the tax or assessment set forth in the notice, and Landlord shall not have the right to reimbursement of such amount from Tenant. If Landlord provides a notice of assessment to Tenant within such time period and requests reimbursement from Tenant as set forth below, then Tenant shall reimburse Landlord for the tax or assessments identified on the notice of assessment on Tenant's leasehold improvements, which has been paid by Landlord. If Landlord seeks reimbursement from Tenant, Landlord shall, no later than thirty (30) days after Landlord's payment of the taxes or assessments for the assessed tax year, provide Tenant with written notice including evidence that Landlord has timely paid same, and Landlord shall provide to Tenant any other documentation reasonably requested by Tenant to allow Tenant to evaluate the payment and to reimburse Landlord.

(c) For any tax amount for which Tenant is responsible under this Agreement, Tenant shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as Tenant may deem appropriate. This right shall include the ability to institute any legal, regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate with respect to the commencement and prosecution of any such proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant, to the extent the amounts were originally paid by Tenant. In the event Tenant notifies Landlord by the due date for assessment of Tenant's intent to contest the assessment, Landlord shall not pay the assessment pending conclusion of the contest, unless required by applicable law.

(d) Landlord shall not split or cause the tax parcel on which the Premises are located to be split, bifurcated, separated or divided without the prior written consent of Tenant.

(e) Tenant shall have the right but not the obligation to pay any taxes due by Landlord hereunder if Landlord fails to timely do so, in addition to any other rights or remedies of Tenant. In the event that Tenant exercises its rights under this Section 21(e) due to such Landlord default, Tenant shall have the right to deduct such tax amounts paid from any monies due to Landlord from Tenant as provided in Section 15(b), provided that Tenant may exercise such right without having provided to Landlord notice and the opportunity to cure per Section 15(b).

(f) Any tax-related notices shall be sent to Tenant in the manner set forth in Section 17 and, in addition, of a copy of any such notices shall be sent to the following address. Promptly after the Effective Date of this Agreement, Landlord shall provide the following address to the taxing authority for the authority's use in the event the authority needs to communicate with Tenant. In the event that Tenant's tax addresses changes by

notice to Landlord, Landlord shall be required to provide Tenant's new tax address to the taxing authority or authorities.

New Cingular Wireless PCS, LLC  
Attn: Network Real Estate Administration -- Taxes  
Re: Cell Site #KYL01212; Cell Site Name: Wright's Ridge (KY)  
Fixed Asset No: 13800813  
575 Morosgo Drive NE  
Atlanta, GA 30324

(g) Notwithstanding anything to the contrary contained in this Section 21, Tenant shall have no obligation to reimburse any tax or assessment for which the Landlord is reimbursed or rebated by a third party.

## 22. SALE OF PROPERTY

(a) Landlord shall not be prohibited from the selling, leasing or use of any of the Property or the Surrounding Property except as provided below.

(b) If Landlord, at any time during the Term of this Agreement, decides to rezone or sell, subdivide or otherwise transfer all or any part of the Premises, or all or any part of the Property or Surrounding Property, to a purchaser other than Tenant, Landlord shall promptly notify Tenant in writing, and such rezoning, sale, subdivision or transfer shall be subject to this Agreement and Tenant's rights hereunder. In the event of a change in ownership, transfer or sale of the Property, within ten (10) days of such transfer, Landlord or its successor shall send the documents listed below in this subsection (b) to Tenant. Until Tenant receives all such documents, Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement.

- i. Old deed to Property
- ii. New deed to Property
- iii. Bill of Sale or Transfer
- iv. Copy of current Tax Bill
- v. New IRS Form W-9
- vi. Completed and Signed AT&T Payment Direction Form
- vii. Full contact information for new Landlord including phone number(s)

(c) Landlord agrees not to sell, lease or use any areas of the Property or Surrounding Property for the installation, operation or maintenance of other wireless communications facilities if such installation, operation or maintenance would interfere with Tenant's Permitted Use or communications equipment as determined by radio propagation tests performed by Tenant in its sole discretion. Landlord or Landlord's prospective purchaser shall reimburse Tenant for any costs and expenses of such testing. If the radio frequency propagation tests demonstrate levels of interference unacceptable to Tenant, Landlord shall be prohibited from selling, leasing or using any areas of the Property or the Surrounding Property for purposes of any installation, operation or maintenance of any other wireless communications facility or equipment.

(d) The provisions of this Section shall in no way limit or impair the obligations of Landlord under this Agreement, including interference and access obligations.

23. RENTAL STREAM OFFER. If at any time after the date of this Agreement, Landlord receives a bona fide written offer from a third party seeking an assignment or transfer of Rent payments associated with this Agreement ("**Rental Stream Offer**"), Landlord shall immediately furnish Tenant with a copy of the Rental Stream Offer. Tenant shall have the right within twenty (20) days after it receives such copy to match the Rental Stream Offer and agree in writing to match the terms of the Rental Stream Offer. Such writing shall be in the form of a contract substantially similar to the Rental Stream Offer. If Tenant chooses not to exercise this right or fails to provide written notice to Landlord within the twenty (20) day period, Landlord may assign the right to receive Rent payments pursuant to the Rental Stream Offer, subject to the terms of this Agreement. If

Landlord attempts to assign or transfer Rent payments without complying with this Section, the assignment or transfer shall be void. Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement until Landlord complies with this Section.

#### **24. MISCELLANEOUS.**

(a) **Amendment/Waiver.** This Agreement cannot be amended, modified or revised unless done in writing and signed by Landlord and Tenant. No provision may be waived except in a writing signed by both parties. The failure by a party to enforce any provision of this Agreement or to require performance by the other party will not be construed to be a waiver, or in any way affect the right of either party to enforce such provision thereafter.

(b) **Memorandum/Short Form Lease.** Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum or Short Form of Lease substantially in the form attached as **Exhibit 24b**. Either party may record this Memorandum or Short Form of Lease at any time during the Term, in its absolute discretion. Thereafter during the Term of this Agreement, either party will, at any time upon fifteen (15) business days' prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum or Short Form of Lease.

(c) **Limitation of Liability.** Except for the indemnity obligations set forth in this Agreement, and otherwise notwithstanding anything to the contrary in this Agreement, Tenant and Landlord each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.

(d) **Compliance with Law.** Tenant agrees to comply with all federal, state and local laws, orders, rules and regulations ("**Laws**") applicable to Tenant's use of the Communication Facility on the Property. Landlord agrees to comply with all Laws relating to Landlord's ownership and use of the Property and any improvements on the Property.

(e) **Bind and Benefit.** The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.

(f) **Entire Agreement.** This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement. Exhibits are numbered to correspond to the Section wherein they are first referenced. Except as otherwise stated in this Agreement, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys, and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Agreement and the transactions it contemplates.

(g) **Governing Law.** This Agreement will be governed by the laws of the state in which the Premises are located, without regard to conflicts of law.

(h) **Interpretation.** Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (iii) whenever a party's consent is required under this Agreement, except as otherwise stated in this Agreement or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of this Agreement and are incorporated by reference into this Agreement; (v) use of the terms "termination" or "expiration" are interchangeable; (vi) reference to a default will take into consideration any applicable notice, grace and cure periods (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Agreement, the ambiguity shall not be resolved on the basis of who drafted the Agreement; (viii) the singular use of words includes the plural where appropriate and (ix) if any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force if the overall purpose of the Agreement is not rendered impossible and the original purpose, intent or consideration is not materially impaired.

(i) **Affiliates.** All references to "Tenant" shall be deemed to include any Affiliate of New Cingular Wireless PCS, LLC using the Premises for any Permitted Use or otherwise exercising the rights of Tenant

pursuant to this Agreement. "Affiliate" means with respect to a party to this Agreement, any person or entity that (directly or indirectly) controls, is controlled by, or under common control with, that party. "Control" of a person or entity means the power (directly or indirectly) to direct the management or policies of that person or entity, whether through the ownership of voting securities, by contract, by agency or otherwise.

(j) **Survival.** Any provisions of this Agreement relating to indemnification shall survive the termination or expiration hereof. In addition, any terms and conditions contained in this Agreement that by their sense and context are intended to survive the termination or expiration of this Agreement shall so survive.

(k) **W-9.** As a condition precedent to payment, Landlord agrees to provide Tenant with a completed IRS Form W-9, or its equivalent, upon execution of this Agreement and at such other times as may be reasonably requested by Tenant, including, any change in Landlord's name or address.

(l) **Execution/No Option.** The submission of this Agreement to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth herein. This Agreement will become effective as a binding Agreement only upon the handwritten legal execution, acknowledgment and delivery hereof by Landlord and Tenant. This Agreement may be executed in two (2) or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties. All parties need not sign the same counterpart.

(m) **Attorneys' Fees.** In the event that any dispute between the parties related to this Agreement should result in litigation, the prevailing party in such litigation shall be entitled to recover from the other party all reasonable fees and expenses of enforcing any right of the prevailing party, including without limitation, reasonable attorneys' fees and expenses. Prevailing party means the party determined by the court to have most nearly prevailed even if such party did not prevail in all matters. This provision will not be construed to entitle any party other than Landlord, Tenant and their respective Affiliates to recover their fees and expenses.

(n) **WAIVER OF JURY TRIAL.** EACH PARTY, TO THE EXTENT PERMITTED BY LAW, KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVES ITS RIGHT TO A TRIAL BY JURY IN ANY ACTION OR PROCEEDING UNDER ANY THEORY OF LIABILITY ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR THE TRANSACTIONS IT CONTEMPLATES.

**[SIGNATURES AND ACKNOWLEDGMENTS APPEAR ON NEXT PAGES]**

IN WITNESS WHEREOF, the parties have caused this Agreement to be effective as of the last date written below.

"LANDLORD"

Foster B. Helm

By: Foster B. Helm  
Print Name: Foster B. Helm  
Its: Owner  
Date: 3-8-17

LANDLORD ACKNOWLEDGMENT

STATE OF KENTUCKY)

) ss:

COUNTY OF CARROLL )

On the 5 day of April, 2017 before me, personally appeared Foster B. Helm, who acknowledged under oath, that he/she/they is/are the person/officer named in the within instrument, and that he/she/they executed the same in his/her/their stated capacity as the voluntary act and deed of the Landlord for the purposes therein contained.

[Signature]  
Notary Public: 1210412419 KY STATE  
My Commission Expires: 12/04/2019 AT  
L.H.

"TENANT"

New Cingular Wireless PCS, LLC.  
a Delaware limited liability company

By: AT&T Mobility Corporation

Its: Manager

By: *Russell Barakat*

Print Name: Russell Barakat

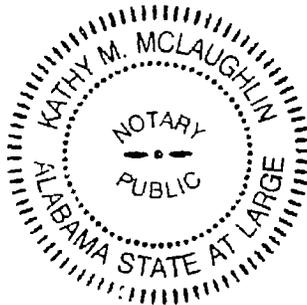
Its: Area Manager - TN/KY

Date: 5/11/17

**TENANT ACKNOWLEDGMENT**

STATE OF ALABAMA )  
 ) ss:  
COUNTY OF JEFFERSON )

On the 11 day of May, 2017, before me personally appeared Russell Barakat and acknowledged under oath that he is the Area Manager - TN/KY of AT&T Mobility Corporation, the Manager of New Cingular Wireless PCS, LLC, the Tenant named in the attached instrument, and as such was authorized to execute this instrument on behalf of the Tenant.



*Kathy M. McLaughlin*  
Notary Public: *Kathy M. McLaughlin*  
My Commission Expires: 10-24-2020

**EXHIBIT 1**

**DESCRIPTION OF PREMISES**

Page 1 of 2

to the Option and Lease Agreement dated 11/17/2017, 2017, by and between Foster B. Helm, an individual, as Landlord, and New Cingular Wireless PCS, LLC, a Delaware limited liability company, as Tenant.

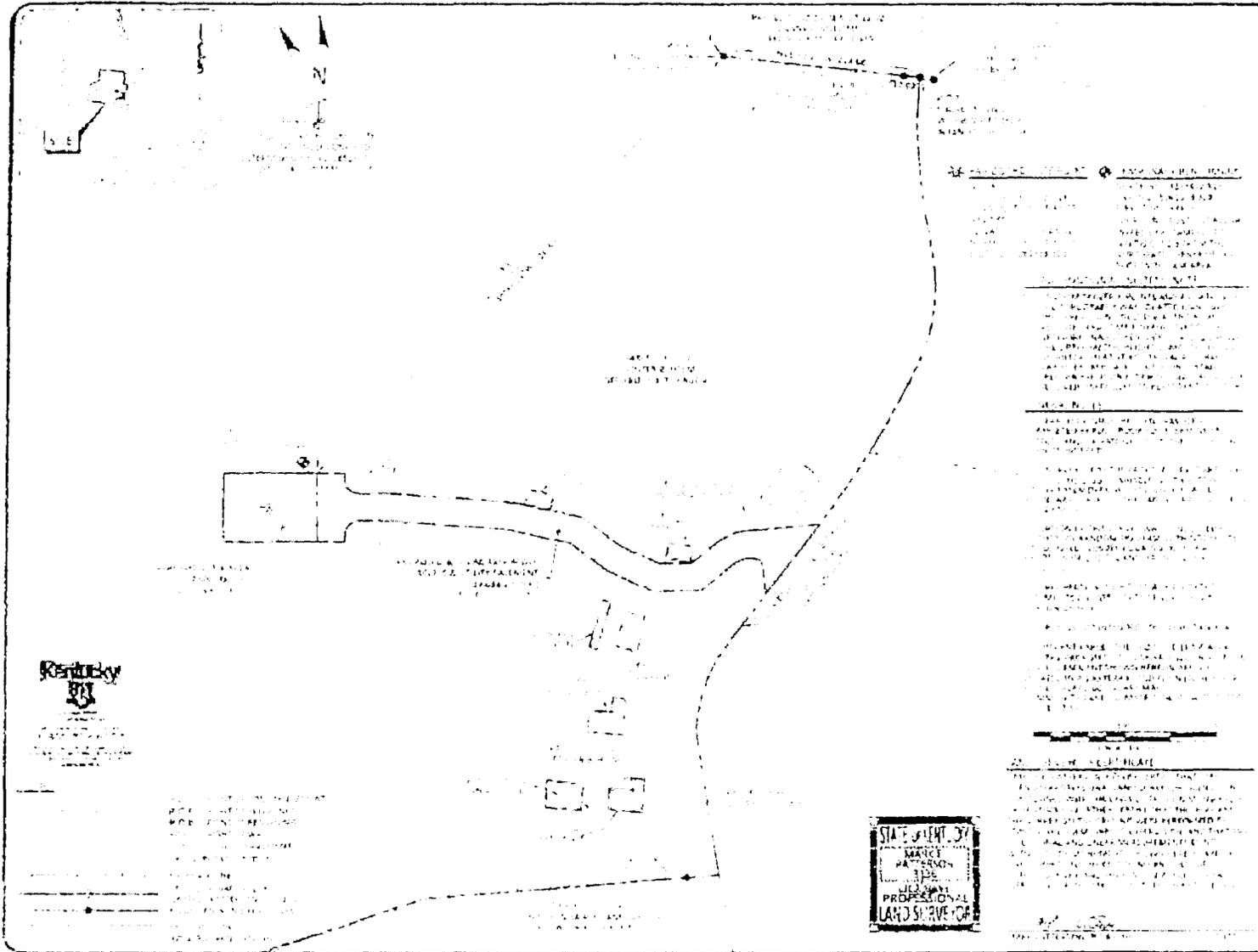
The Property is legally described as follows:

DB 170, Pg. 435

Beginning at a stone at the end of a stone fence corner to R. B. Taylor; thence N 8½ E. 18 poles to an Ash; thence N 87 ¾ E. 16.5 poles to a point in the center of Wrights road; thence following the center of the road N. 6¼ W. 12 poles N. 35 ¾ E. 20 poles N. 28 E. 9 poles N. 4¼ W. 15. 6 poles to a point in the center of the road to Gobel Simmonds and Clarence Hudson; thence leaving the road N. 85 W. 13.8 poles to a Lucust Stump; thence N. 2¼ E. 48 poles to a stone corner to Jas. Eggerton and John Thompson farm; and Mose Jenkins, thence S. 2 E. 22.5 poles S. 8¼ W. 25.5 poles to a double Walnut on south side of branch; thence S. 70 W. 29 poles, S. 64¼ W. 15 poles, S. 38 W. 9 poles, S 18¼ W. 29 poles, S. 6½ W. 30 poles to an Ash corner to Jenkins and R. B. Taylor; thence S. 86½ E. 109.5 poles to the beginning containing 94.4 acres.

Being the same property conveyed to J. T. Helm by Deed dated May 1936, of record in Deed Book 42, Page 6. J. T. Helm died intestate on January 17, 1968, conveying interests to heirs as set forth in the Affidavit of Descent of record in Deed Book 68, Page 148. The parties inherited the interests of Cora Katherine Ward upon her death on May 1, 1976, in accordance with her Affidavit of Descent of record in Deed Book 88, Page 51. Foster S. Helm, Bennie Helm and James S. Helm purchased the remaining interests of the Cora Katherine Ward heirs by Deed dated August 12, 1978, of record in Deed Book 88, Page 52. Bennie Helm and Foster B. Helm purchased the interest of James S. Helm and Patsy Ruth Helm, husband and wife, by Deed dated September 13, 1988, of record in Deed Book 105, Page 522. All documents are recorded in the Carroll County Court Clerk's Office.

*Handwritten notes:*  
 1. 100' x 100' x 100' x 100'  
 2. 100' x 100' x 100' x 100'



**POD**  
 OF  
 SURVEYING

**MasTec**

**at&t**

**CONTRACT**

**NO. 101**

**DATE** 10/1/00

**PROJECT** 100' x 100' x 100' x 100'

**CLIENT** 100' x 100' x 100' x 100'

**DESCRIPTION** 100' x 100' x 100' x 100'

**SCOPE OF WORK** 100' x 100' x 100' x 100'

**TERMS AND CONDITIONS** 100' x 100' x 100' x 100'

**AGREED AND ACCEPTED** 100' x 100' x 100' x 100'

**DATE** 10/1/00

**BY** 100' x 100' x 100' x 100'

**FOR** 100' x 100' x 100' x 100'

**STATE OF KENTUCKY**

**MASTEC**

**PROFESSIONAL**

**LAND SURVEYOR**

**NO. 101**

**DATE** 10/1/00

**BY** 100' x 100' x 100' x 100'

**FOR** 100' x 100' x 100' x 100'

**B-1**

**EXHIBIT 11**

**ENVIRONMENTAL DISCLOSURE**

Landlord represents and warrants that the Property, as of the date of this Agreement, is free of hazardous substances except as follows:

1. NONE.

**EXHIBIT 12**  
**STANDARD ACCESS LETTER**  
**[FOLLOWS ON NEXT PAGE]**

[Landlord Letterhead]

DATE *March 8, 2011*

Building Staff / Security Staff  
Landlord, Lessee, Licensee  
Street Address  
City, State, Zip

Re: Authorized Access granted to AT&T

Dear Building and Security Staff,

Please be advised that we have signed a lease with AT&T permitting AT&T to install, operate and maintain telecommunications equipment at the property. The terms of the lease grant AT&T and its representatives, employees, agents and subcontractors (“representatives”) 24 hour per day, 7 day per week access to the leased area.

To avoid impact on telephone service during the day, AT&T representatives may be seeking access to the property outside of normal business hours. AT&T representatives have been instructed to keep noise levels at a minimum during their visit.

Please grant the bearer of a copy of this letter access to the property and to leased area. Thank you for your assistance.

  
Landlord Signature

**EXHIBIT J**  
**NOTIFICATION LISTING**

**NOTIFICATION LISTING**  
**SITE NAME: WRIGHTS RIDGE**

HELM FOSTER B  
2126 WRIGHTS RIDGE RD  
MILTON, KY 40045

LAYTON HUBERT E &  
SANDRA ANN  
2324 WRIGHTS RIDGE  
MILTON, KY 40045

THOMPSON ANITA &  
ANDREA LAUREN  
1241 BELMAR DR  
LOUISVILLE, KY 40213

KEITH CYNTHIA L  
1050 PAINTER RD  
MILTON, KY 40045

CUNDIFF MICHAEL Y JR  
1903 MCCORD LN  
MILTON, KY 40045

WILLIAMS DANNY J  
1911 WRIGHTS RIDGE RD  
MILTON, KY 40045

HARSIN COREY & TARA  
2001 WRIGHTS RIDGE RD  
MILTON, KY 40045

HARSIN DENNIS & DEBRA  
1214 WRIGHTS RIDGE  
MILTON, KY 40045

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



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

**Notice of Proposed Construction of  
Wireless Communications Facility  
Site Name: Wrights Ridge**

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 2126 Wrights Ridge Road, Milton Kentucky (38°40'25.13" North latitude, 85°15'33.67" West longitude). The proposed facility will include a 255-foot tall antenna tower, plus a 15-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2018-00121 in any correspondence sent in connection with this matter.

In addition to expanding and improving voice and data service for AT&T mobile customers, this site will also provide wireless local loop ("WLL") broadband internet service to homes and businesses in the area. WLL will support internet access at the high speeds required to use and enjoy the most current business, education and entertainment technologies.

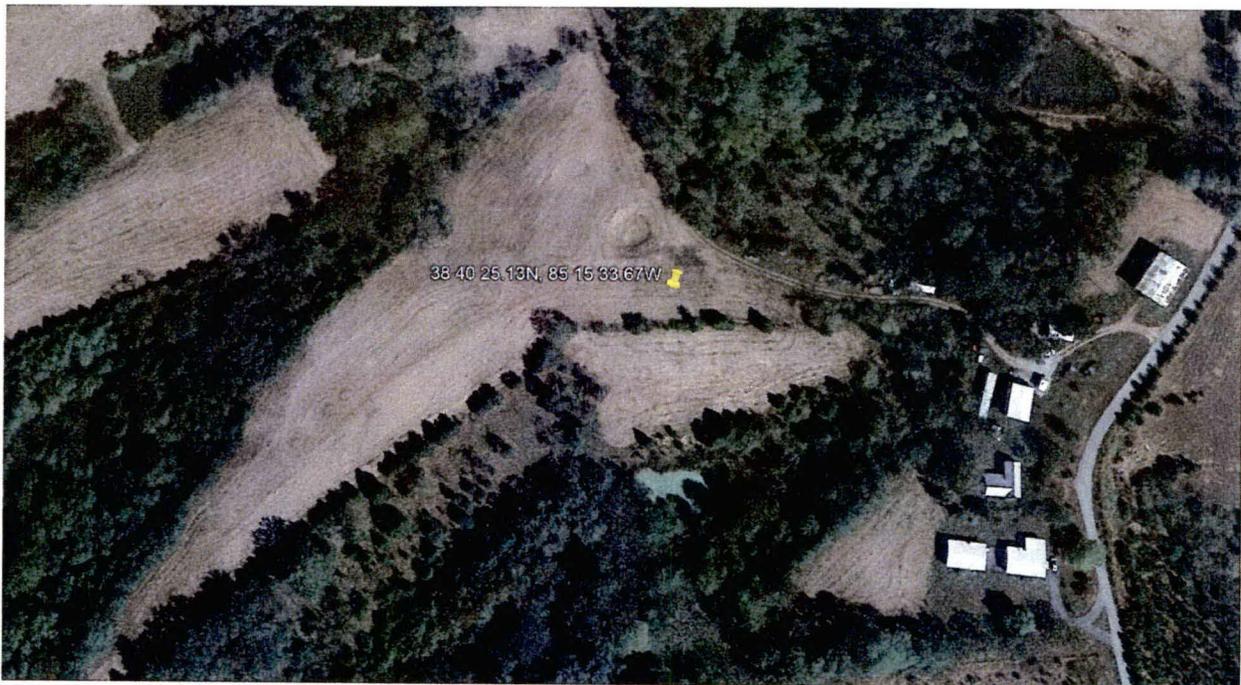
We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area.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

Sincerely,  
David A. Pike  
Attorney for Applicant

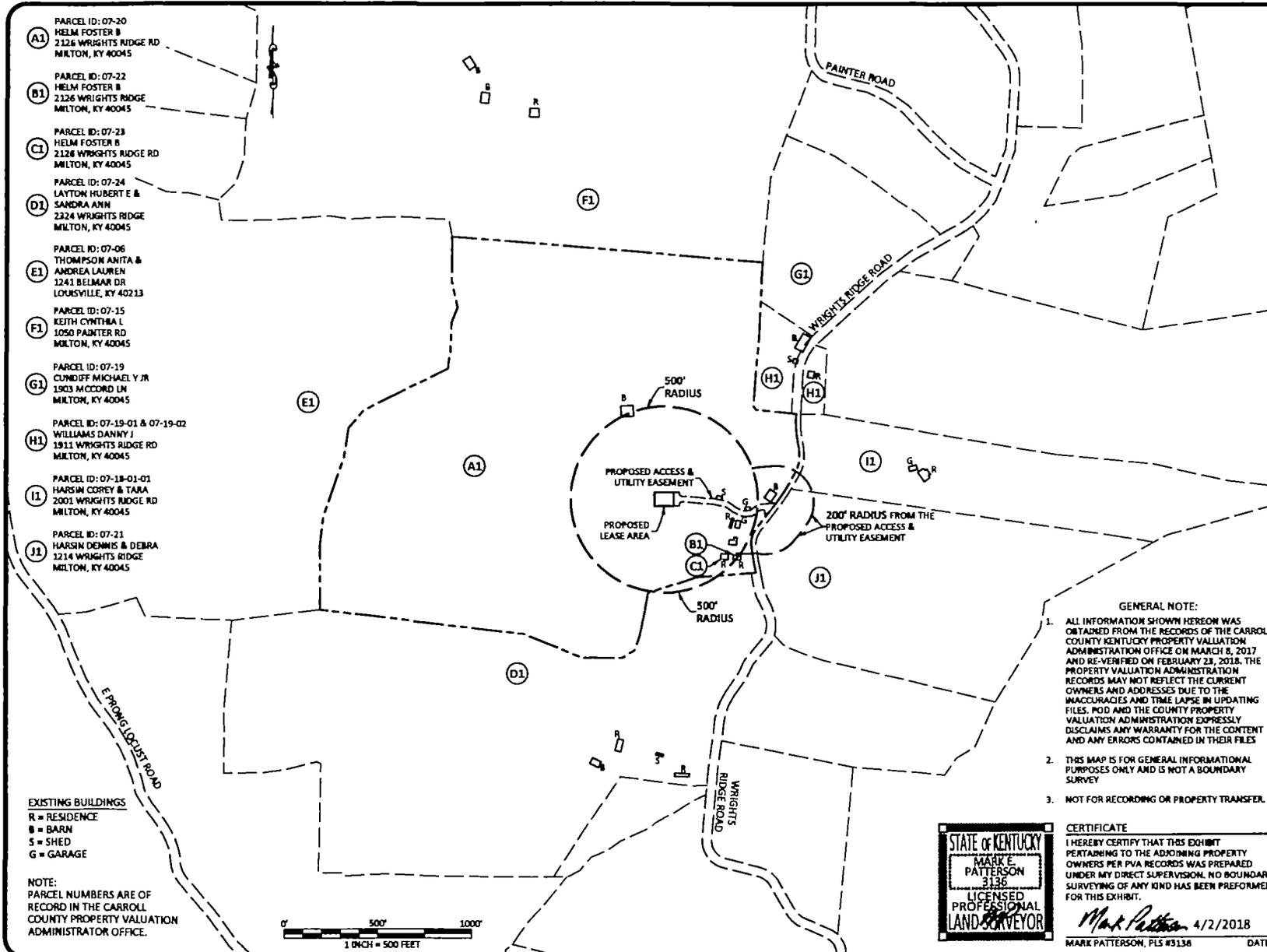
enclosure

**Site Name: Wrights Ridge**  
**Driving Directions to Proposed Tower Site**

1. Beginning at the offices of the County Judge/Executive located at 440 Main Street, Carrollton, Kentucky.
2. Start out going west on Main St toward Court Street.
3. Take the 1st left onto Court Street.
4. Turn right onto Highland Ave/US-42 W/KY-36. Continue to follow KY-36.
5. Turn left onto Notchlick Road.
6. Take the 1st right onto Wrights Ridge Road.
7. Arrive at 2126 Wrights Ridge Rd, Milton, Kentucky.
8. The site coordinates are 38°40'25.13" North latitude, 85°15'33.67" West longitude.



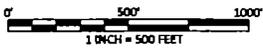
Prepared by:  
Robert W. Grant  
Pike Legal Group PLLC  
1578 Highway 44 East, Suite 6  
P.O. Box 369  
Shepherdsville, KY 40165-3069  
Telephone: 502-955-4400 or 800-516-4293



- PARCEL ID: 07-20  
HELM FOSTER B  
2126 WRIGHTS RIDGE RD  
MILTON, KY 40045
- PARCEL ID: 07-22  
HELM FOSTER B  
2126 WRIGHTS RIDGE  
MILTON, KY 40045
- PARCEL ID: 07-23  
HELM FOSTER B  
2128 WRIGHTS RIDGE RD  
MILTON, KY 40045
- PARCEL ID: 07-24  
LAYTON HUBERT E &  
SANDRA ANN  
2324 WRIGHTS RIDGE  
MILTON, KY 40045
- PARCEL ID: 07-06  
THOMPSON ANITA &  
ANDREA LAUREN  
1241 BELMAR DR  
LOUISVILLE, KY 40213
- PARCEL ID: 07-15  
KEITH CYNTHIA L  
1050 PAINTER RD  
MILTON, KY 40045
- PARCEL ID: 07-19  
CLINEIFF MICHAEL Y JR  
1903 MCCORD LN  
MILTON, KY 40045
- PARCEL ID: 07-19-01 & 07-19-02  
WILLIAMS DANNY J  
1911 WRIGHTS RIDGE RD  
MILTON, KY 40045
- PARCEL ID: 07-18-01-01  
HARSHIN COREY & TARA  
2001 WRIGHTS RIDGE RD  
MILTON, KY 40045
- PARCEL ID: 07-21  
HARSHIN DENNIS & DEBRA  
1214 WRIGHTS RIDGE  
MILTON, KY 40045

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

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



- GENERAL NOTE:**
1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CARROLL COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON MARCH 8, 2017 AND RE-VERIFIED ON FEBRUARY 23, 2018. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
  2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
  3. NOT FOR RECORDING OR PROPERTY TRANSFER.



**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* 4/2/2018  
 MARK PATTERSON, PLS #3136 DATE

PREPARED BY:  
  
 13490 BLUEBRASS PARKWAY  
 LOUISVILLE, KY 40299  
 803-437-5282

PREPARED FOR:

PREPARED FOR:

**EXHIBIT**

REV.	DATE	DESCRIPTION
A	2.23.18	ISSUED FOR REVIEW
0	4.2.18	ISSUED AS FINAL

**SITE INFORMATION:**

**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045  
 CARROLL COUNTY

**TAX PARCEL NUMBER:**  
 07-20

**PROPERTY OWNER:**  
 FOSTER B. HELM  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045

**SOURCE OF TITLE:**  
 DEED BOOK 170, PAGE 435

**SITE NUMBER:**  
 KYL01232

**POD NUMBER:** 17-13279  
**DRAWN BY:** DAP  
**CHECKED BY:** MEP  
**SURVEY DATE:** 3.8.17  
**PLAT DATE:** 2.23.18

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

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

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



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

**VIA CERTIFIED MAIL**

Hon. Bobby Lee Westrick  
County Judge Executive  
440 Main Street  
Carrollton, KY 41008

RE: Notice of Proposal to Construct Wireless Communications Facility  
Kentucky Public Service Commission Docket No. 2018-00121  
Site Name: Wrights Ridge

Dear Judge/Executive:

New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 2126 Wrights Ridge Road, Milton Kentucky (38°40'25.13" North latitude, 85°15'33.67" West longitude). The proposed facility will include a 255-foot tall antenna tower, plus a 15-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2018-00121 in any correspondence sent in connection with this matter.

In addition to expanding and improving voice and data service for AT&T mobile customers, this site will also provide wireless local loop ("WLL") broadband internet service to homes and businesses in the area. WLL will support internet access at the high speeds required to use and enjoy the most current business, education and entertainment technologies.

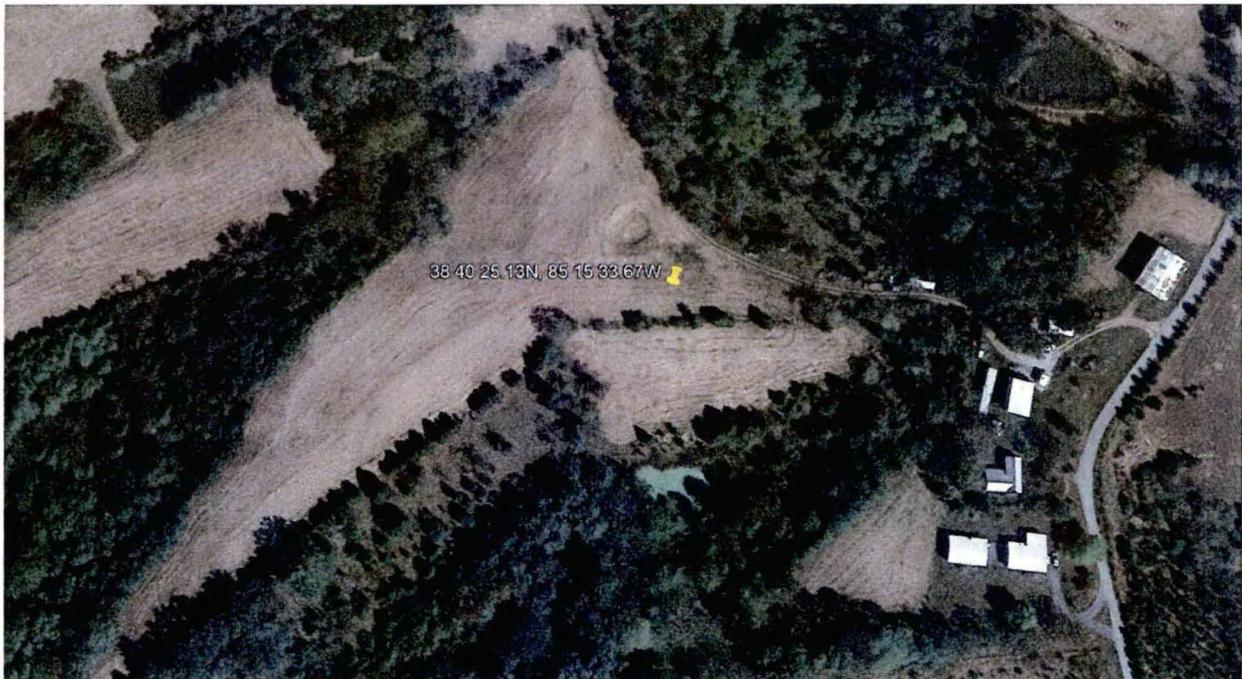
We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area.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

Sincerely,  
David A. Pike  
Attorney for Applicant

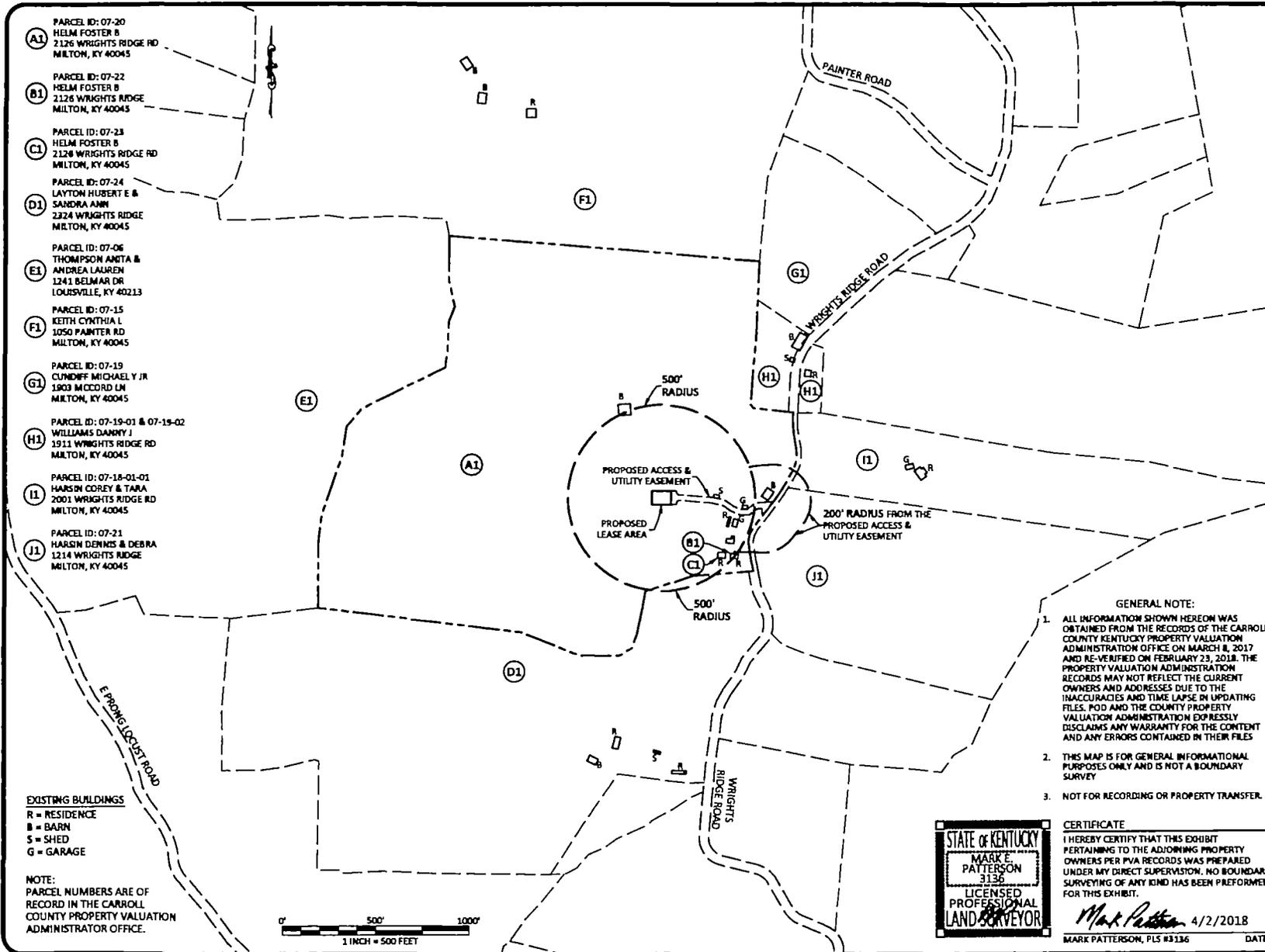
enclosures

**Site Name: Wrights Ridge**  
**Driving Directions to Proposed Tower Site**

1. Beginning at the offices of the County Judge/Executive located at 440 Main Street, Carrollton, Kentucky.
2. Start out going west on Main St toward Court Street.
3. Take the 1st left onto Court Street.
4. Turn right onto Highland Ave/US-42 W/KY-36. Continue to follow KY-36.
5. Turn left onto Notchlick Road.
6. Take the 1st right onto Wrights Ridge Road.
7. Arrive at 2126 Wrights Ridge Rd, Milton, Kentucky.
8. The site coordinates are 38°40'25.13" North latitude, 85°15'33.67" West longitude.



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



- (A1) PARCEL ID: 07-20  
HELM FOSTER B  
2126 WRIGHTS RIDGE RD  
MILTON, KY 40045
- (B1) PARCEL ID: 07-22  
HELM FOSTER B  
2126 WRIGHTS RIDGE  
MILTON, KY 40045
- (C1) PARCEL ID: 07-23  
HELM FOSTER B  
2126 WRIGHTS RIDGE RD  
MILTON, KY 40045
- (D1) PARCEL ID: 07-24  
LAYTON HUBERT E &  
SANDRA ANN  
2324 WRIGHTS RIDGE  
MILTON, KY 40045
- (E1) PARCEL ID: 07-06  
THOMPSON ANITA &  
ANDREA LAUREN  
1241 BELMAR DR  
LOUISVILLE, KY 40213
- (F1) PARCEL ID: 07-15  
KEITH CYNTHIA L  
1050 PAINTER RD  
MILTON, KY 40045
- (G1) PARCEL ID: 07-19  
CUNDIFF MICHAEL Y JR  
1903 MCCORD LN  
MILTON, KY 40045
- (H1) PARCEL ID: 07-19-01 & 07-19-02  
WILLIAMS DANNY J  
1911 WRIGHTS RIDGE RD  
MILTON, KY 40045
- (I1) PARCEL ID: 07-18-01-01  
HARRIS COREY & TARA  
2001 WRIGHTS RIDGE RD  
MILTON, KY 40045
- (J1) PARCEL ID: 07-21  
HARRIS DENNIS & DEBRA  
1214 WRIGHTS RIDGE  
MILTON, KY 40045

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

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



- GENERAL NOTE:**
1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CARROLL COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON MARCH 8, 2017 AND RE-VERIFIED ON FEBRUARY 23, 2018. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES.
  2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
  3. NOT FOR RECORDING OR PROPERTY TRANSFER.



**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* 4/2/2018  
 MARK PATTERSON, PLS #3136 DATE

PREPARED BY:  
**POD**  
 POWER OF DESIGN  
 11440 BULLHEADS PARKWAY  
 LOUISVILLE, KY 40299  
 502-437-4312

PREPARED FOR:  
**MasTec**

PREPARED FOR:

**EXHIBIT**

REV.	DATE	DESCRIPTION
A	2.23.18	ISSUED FOR REVIEW
O	4.2.18	ISSUED AS FINAL

**SITE INFORMATION:**

**WRIGHTS RIDGE**  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045  
 CARROLL COUNTY

**TAX PARCEL NUMBER:**  
 07-20

**PROPERTY OWNER:**  
 FOSTER B. HELM  
 2126 WRIGHTS RIDGE ROAD  
 MILTON, KY 40045

**SOURCE OF TITLE:**  
 DEED BOOK 170, PAGE 435

**SITE NUMBER:**  
 KYLD1212

**POD NUMBER:** 17-13279  
**DRAWN BY:** DAP  
**CHECKED BY:** MEP  
**SURVEY DATE:** 3.4.17  
**PLAT DATE:** 2.23.18

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

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

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

**SITE NAME: WRIGHT'S RIDGE**  
**NOTICE SIGNS**

The signs are at least (2) feet by four (4) feet in size, of durable material, with the text printed in black letters at least one (1) inch in height against a white background, except for the word "**tower**," which is at least four (4) inches in height.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2018-00121 in your correspondence.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility proposes to construct a telecommunications **tower** near this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2018-00121 in your correspondence.



Phone: (502) 732-4261  
Fax: (502) 732-0453

The News Democrat  
122 Sixth Street  
P.O. Box 60  
Carrollton, KY 41008

RE: Legal Notice Advertisement  
Site Name: Wrights Ridge

Please publish the following legal notice advertisement in the next edition of *The News Democrat*:

#### NOTICE

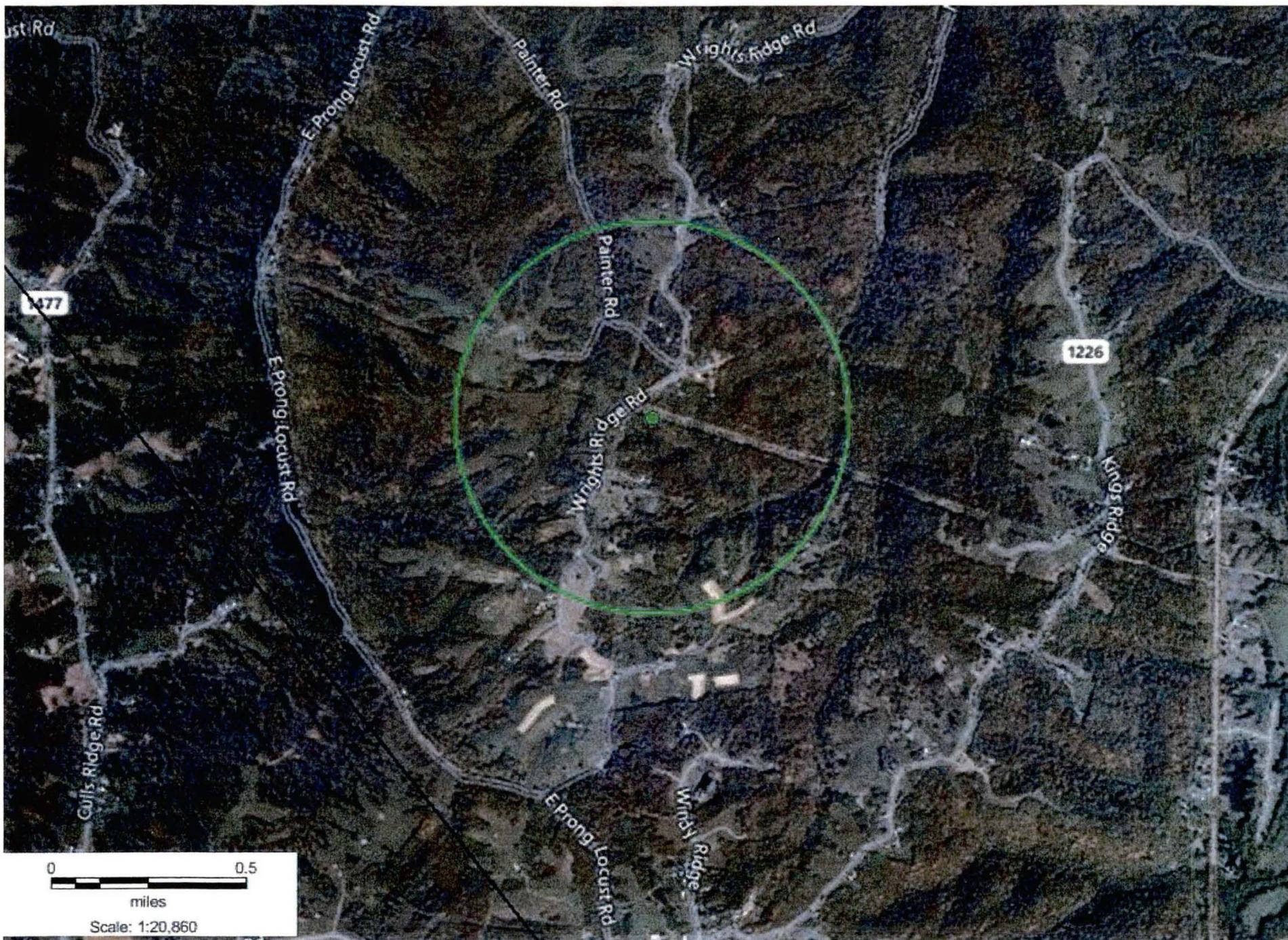
**New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 2126 Wrights Ridge Road, Milton Kentucky (38°40'25.13" North latitude, 85°15'33.67" West longitude). You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2018-00121 in any correspondence sent in connection with this matter.**

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

Sincerely,  
Robert W. Grant  
Pike Legal Group, PLLC

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

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



Lat: 38.676272  
Lon: -85.254366  
Radius: .5 miles

Wright's Ridge Search Area