

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

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**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)
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF TODD)

CASE NO.: 2019-00244

SITE NAME: DUNCAN 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. 4th 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. Applicant is a limited liability company organized in the State of Delaware on October 20, 1994.

4. Applicant attests that it is in good standing in the state in which it is organized and further states that it is authorized to transact business in Kentucky.

5. The Certificate of Authority filed with the Kentucky Secretary of State for the Applicant entity is attached as part of **Exhibit A** pursuant to 807 KAR 5:001: Section 14(3).

6. 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.

7. 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.

8. To address the above-described service needs, Applicant proposes to construct a WCF at Antioch Church Road, Sharon Grove, Kentucky 42280 (36° 56' 42.51" North latitude, 87° 04' 14.38" 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 Christopher R. Kenner pursuant to a Deed recorded at Deed Book 182, Page 291 in the office of the County Clerk. The proposed WCF will consist of a 255-foot tall tower, with an approximately 15-foot tall lightning arrestor attached at the top, for a total height of 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**.

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

10. 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**.

11. 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**.

12. 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.

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

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

15. 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.

16. 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.

17. 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**.

18. 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.

19. 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**.

20. 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.

21. **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**.

22. 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.

23. 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**.

24. 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**.

25. The general area where the proposed facility is to be located is rural and heavily wooded. There are not existing residential structures within 500' of the tower's

proposed location.

26. 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**.

27. 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.

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

29. 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

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,



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 - Certificate of Authority & 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
CERTIFICATE OF AUTHORITY & FCC LICENSE
DOCUMENTATION

Commonwealth of Kentucky
Alison Lundergan Grimes, Secretary of State

Alison Lundergan Grimes
Secretary of State
P. O. Box 718
Frankfort, KY 40602-0718
(502) 564-3490
<http://www.sos.ky.gov>

Certificate of Authorization

Authentication number: 216299
Visit <https://app.sos.ky.gov/ftshow/certvalidate.aspx> to authenticate this certificate.

I, Alison Lundergan Grimes, Secretary of State of the Commonwealth of Kentucky, do hereby certify that according to the records in the Office of the Secretary of State,

NEW CINGULAR WIRELESS PCS, LLC

, a limited liability company authorized under the laws of the state of Delaware, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on October 14, 1999.

I further certify that all fees and penalties owed to the Secretary of State have been paid; that an application for certificate of withdrawal has not been filed; and that the most recent annual report required by KRS 14A.6-010 has been delivered to the Secretary of State.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 28th day of May, 2019, in the 227th year of the Commonwealth.



Alison Lundergan Grimes

Alison Lundergan Grimes
Secretary of State
Commonwealth of Kentucky
216299/0481848

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: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign KNKN748	File Number
Radio Service CL - Cellular	
Market Numer CMA445	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003291192

Market Name Kentucky 3 - Meade
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Grant Date 08-30-2011	Effective Date 08-31-2018	Expiration Date 10-01-2021	Five Yr Build-Out Date	Print Date
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Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	36-49-19.8 N	086-40-30.2 W	283.5	59.4	1043423

Address: 2070 PILOT KNOB CELL ROAD (76159)

City: FRANKLIN County: SIMPSON 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)	149.700	154.000	142.400	134.600	134.000	144.000	132.800	132.800	
Transmitting ERP (watts)	127.704	122.022	156.166	85.681	30.393	22.550	27.951	41.372	

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)	149.700	154.000	142.400	134.600	134.000	144.000	132.800	132.800	
Transmitting ERP (watts)	0.303	19.967	70.900	141.164	91.184	151.327	56.166	39.846	

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)	149.700	154.000	142.400	134.600	134.000	144.000	132.800	132.800	
Transmitting ERP (watts)	165.855	47.655	35.065	13.085	19.027	126.639	254.086	264.756	

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: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	36-47-00.6 N	086-17-12.4 W	242.6	109.4	1043428

Address: 6131 Bowling Green Road (76163)
City: Scottsville County: ALLEN 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)	172.400	151.800	131.600	118.100	137.600	143.600	150.000	172.700
Transmitting ERP (watts)	29.587	17.631	2.143	0.106	0.120	0.108	1.702	15.717

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)	172.400	151.800	131.600	118.100	137.600	143.600	150.000	172.700
Transmitting ERP (watts)	0.567	8.309	54.332	71.176	21.736	1.489	0.142	0.158

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)	172.400	151.800	131.600	118.100	137.600	143.600	150.000	172.700
Transmitting ERP (watts)	0.270	0.100	0.100	0.719	8.327	27.930	25.164	4.852

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	37-57-06.1 N	086-24-38.3 W	260.0	96.3	1043429

Address: HWY 144 (76157)
City: UNION STAR County: BRECKINRIDGE 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)	163.100	141.100	130.700	148.200	162.700	183.900	186.100	179.000
Transmitting ERP (watts)	60.057	209.658	152.570	20.969	2.687	0.418	0.941	4.434

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)	163.100	141.100	130.700	148.200	162.700	183.900	186.100	179.000
Transmitting ERP (watts)	0.489	0.727	12.997	103.833	245.059	92.615	9.426	2.404

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)	163.100	141.100	130.700	148.200	162.700	183.900	186.100	179.000
Transmitting ERP (watts)	45.626	4.863	1.713	0.627	1.375	31.023	156.388	214.520

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	37-14-22.1 N	086-15-59.7 W	229.8	123.4	1025100

Address: 1400 POPLAR SPRINGS RD. (76169)
City: BROWNSVILLE County: EDMONSON 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)	150.600	151.200	130.600	151.300	175.800	170.100	181.100	173.000
Transmitting ERP (watts)	52.262	182.266	132.676	18.211	2.334	0.364	0.819	3.844

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)	150.600	151.200	130.600	151.300	175.800	170.100	181.100	173.000
Transmitting ERP (watts)	0.425	0.633	11.292	90.388	212.968	80.505	8.178	2.094

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)	150.600	151.200	130.600	151.300	175.800	170.100	181.100	173.000
Transmitting ERP (watts)	39.661	4.221	1.487	0.543	1.196	26.979	135.691	186.462

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	37-52-17.8 N	086-16-03.5 W	224.3	152.1	1043896

Address: SAM DOWELL ROAD (76182)
City: IRVINGTON County: BRECKINRIDGE State: KY Construction Deadline: 07-23-2013

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)	121.400	111.900	93.000	94.700	111.800	114.200	143.100	107.600
Transmitting ERP (watts)	59.129	206.186	150.253	20.668	2.640	0.412	0.928	4.356

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)	121.400	111.900	93.000	94.700	111.800	114.200	143.100	107.600
Transmitting ERP (watts)	0.482	0.716	12.797	102.360	241.122	91.084	9.268	2.368

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)	121.400	111.900	93.000	94.700	111.800	114.200	143.100	107.600
Transmitting ERP (watts)	44.832	4.778	1.689	0.615	1.355	30.513	153.797	211.457

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	36-42-08.6 N	086-33-19.0 W	217.0	114.3	1200032

Address: 297A TURNER FORD ROAD (79470)
 City: Franklin County: SIMPSON State: KY Construction Deadline: 07-23-2013

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) 115.100 113.900 95.200 90.700 79.000 97.800 103.600 98.200
 Transmitting ERP (watts) 12.529 51.909 43.680 6.792 0.306 0.104 0.104 0.871

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) 115.100 113.900 95.200 90.700 79.000 97.800 103.600 98.200
 Transmitting ERP (watts) 0.126 0.114 1.788 16.431 30.950 18.425 2.247 0.111

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) 115.100 113.900 95.200 90.700 79.000 97.800 103.600 98.200
 Transmitting ERP (watts) 64.739 3.664 0.447 0.530 1.414 26.223 172.206 223.125

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	36-50-29.5 N	087-07-55.8 W	237.7	59.7	

Address: 360 C STOKES ROAD (76158)
 City: ELKTON County: TODD State: KY Construction Deadline: 07-23-2013

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) 88.600 106.300 98.000 103.600 113.600 107.900 90.000 83.900
 Transmitting ERP (watts) 59.416 267.210 296.881 53.793 5.846 1.888 1.202 3.110

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) 88.600 106.300 98.000 103.600 113.600 107.900 90.000 83.900
 Transmitting ERP (watts) 0.355 2.851 12.889 51.983 75.907 82.466 21.953 4.744

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) 88.600 106.300 98.000 103.600 113.600 107.900 90.000 83.900
 Transmitting ERP (watts) 62.796 11.059 4.662 1.147 2.477 23.358 65.087 76.580

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
28	37-14-33.4 N	087-19-57.9 W	128.6	96.9	1217687

Address: 1020 HENRY OATS ROAD (76201)
City: Graham County: MUHLENBERG State: KY Construction Deadline: 07-23-2013

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)	91.700	68.800	64.200	74.700	79.100	81.600	85.800	91.900
Transmitting ERP (watts)	35.026	195.687	216.768	54.685	2.636	0.432	0.445	1.843

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)	91.700	68.800	64.200	74.700	79.100	81.600	85.800	91.900
Transmitting ERP (watts)	0.121	0.121	2.272	26.014	60.527	29.180	2.862	0.121

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)	91.700	68.800	64.200	74.700	79.100	81.600	85.800	91.900
Transmitting ERP (watts)	35.896	3.378	0.159	0.237	0.301	5.075	44.704	79.171

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
34	37-04-12.2 N	086-05-07.1 W	198.1	99.1	1211505

Address: 622 CRUMP ROAD (37518)
City: Smiths Grove County: EDMONSON State: KY Construction Deadline: 07-23-2013

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)	53.800	63.200	49.600	57.000	59.000	84.600	86.400	61.200
Transmitting ERP (watts)	27.629	87.373	66.058	8.970	0.709	0.175	0.179	3.181

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)	53.800	63.200	49.600	57.000	59.000	84.600	86.400	61.200
Transmitting ERP (watts)	0.101	0.305	1.436	1.860	2.041	0.788	0.130	0.100

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	53.800	63.200	49.600	57.000	59.000	84.600	86.400	61.200
Transmitting ERP (watts)	0.192	0.100	0.160	0.224	1.075	2.050	1.930	1.184

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	37-29-36.0 N	086-11-16.5 W	221.9	83.8	1217206

Address: 694 BRATON ROAD (81461)
City: Clarkson County: GRAYSON State: KY Construction Deadline: 07-23-2013

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) 92.400 66.200 82.600 83.200 92.600 111.600 90.000 105.400
Transmitting ERP (watts) 57.018 192.165 145.827 15.733 1.898 0.385 0.383 6.862

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) 92.400 66.200 82.600 83.200 92.600 111.600 90.000 105.400
Transmitting ERP (watts) 0.252 0.276 8.928 64.700 126.176 53.814 5.506 0.302

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) 92.400 66.200 82.600 83.200 92.600 111.600 90.000 105.400
Transmitting ERP (watts) 54.629 3.519 0.818 0.541 4.115 41.499 223.658 269.303

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
36	37-56-59.6 N	086-04-57.8 W	200.0	77.7	1230213

Address: 340 HAYES ROAD (37683)
City: Brandenburg County: MEADE State: KY Construction Deadline: 07-23-2013

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) 85.400 108.200 75.400 73.700 40.000 69.400 81.900 112.400
Transmitting ERP (watts) 126.151 53.803 5.511 0.302 0.252 0.277 8.920 64.703

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) 85.400 108.200 75.400 73.700 40.000 69.400 81.900 112.400
Transmitting ERP (watts) 0.293 3.183 18.727 24.271 10.402 0.832 0.126 0.180

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) 85.400 108.200 75.400 73.700 40.000 69.400 81.900 112.400
Transmitting ERP (watts) 0.954 0.235 0.241 4.294 37.262 117.843 89.269 12.068

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
39	37-36-06.5 N	087-23-53.6 W	190.2	72.8	1049228

Address: 8720 STATE HIGHWAY 256 (100726)
City: Calhoun County: MCLEAN State: KY Construction Deadline: 07-23-2013

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)	132.100	127.700	130.400	139.700	139.200	127.700	123.000	127.400
Transmitting ERP (watts)	8.604	24.150	21.298	3.973	0.289	0.100	0.110	0.868

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)	132.100	127.700	130.400	139.700	139.200	127.700	123.000	127.400
Transmitting ERP (watts)	0.100	0.145	0.714	2.721	2.030	2.664	0.581	0.100

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.100	127.700	130.400	139.700	139.200	127.700	123.000	127.400
Transmitting ERP (watts)	16.740	1.264	0.201	0.172	0.717	9.668	50.766	60.487

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
40	38-00-08.4 N	086-19-20.3 W	237.4	103.9	1049227

Address: 1002 Paynesville Rd (100721)
City: PAYNEVILLE County: MEADE State: KY Construction Deadline: 07-23-2013

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)	136.200	133.100	139.800	109.200	119.400	125.600	140.200	137.800
Transmitting ERP (watts)	80.625	243.519	176.744	18.512	1.434	0.489	0.488	6.707

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)	136.200	133.100	139.800	109.200	119.400	125.600	140.200	137.800
Transmitting ERP (watts)	0.510	0.882	16.525	137.024	255.663	104.000	5.452	1.040

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)	136.200	133.100	139.800	109.200	119.400	125.600	140.200	137.800
Transmitting ERP (watts)	49.820	2.170	0.508	0.496	2.867	39.546	197.992	232.753

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
45	36-47-11.0 N	086-08-35.3 W	253.3	91.1	1043039

Address: 3499 OLD GLASGOW ROAD (76160)
City: SCOTTSVILLE County: ALLEN State: KY Construction Deadline: 07-23-2013

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	141.000	115.500	104.500	105.100	65.600	99.100	114.200	122.300
Transmitting ERP (watts)	69.057	33.233	3.269	0.138	0.138	0.139	2.591	29.564

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	141.000	115.500	104.500	105.100	65.600	99.100	114.200	122.300
Transmitting ERP (watts)	0.695	10.164	66.502	87.307	26.647	1.827	0.175	0.193

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	141.000	115.500	104.500	105.100	65.600	99.100	114.200	122.300
Transmitting ERP (watts)	0.331	0.100	0.100	0.877	10.209	34.235	30.831	5.937

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
47	36-59-46.4 N	087-08-24.4 W	253.3	84.7	1052933

Address: 14010 Greenville Rd (114156)
City: CLIFTY County: TODD State: KY Construction Deadline: 07-23-2013

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	140.300	148.600	164.300	137.900	115.200	131.900	156.200	154.200
Transmitting ERP (watts)	90.933	49.427	5.614	0.231	0.294	0.248	4.251	44.027

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	140.300	148.600	164.300	137.900	115.200	131.900	156.200	154.200
Transmitting ERP (watts)	1.696	31.376	206.048	266.811	77.333	4.381	0.534	0.634

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	45	90	135	180	225	270	315	
Antenna Height AAT (meters)	140.300	148.600	164.300	137.900	115.200	131.900	156.200	154.200
Transmitting ERP (watts)	0.365	0.124	0.124	1.043	14.987	62.052	52.143	8.124

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
48	36-39-29.0 N	087-10-56.1 W	168.9	46.9	

Address: 9141 Russellville Rd (116025)
City: Guthrie County: TODD State: KY Construction Deadline: 07-23-2013

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)	30.000	36.200	41.000	46.500	50.000	51.500	45.300	40.200
Transmitting ERP (watts)	83.826	171.373	91.533	10.341	0.391	0.553	0.470	7.798

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)	30.000	36.200	41.000	46.500	50.000	51.500	45.300	40.200
Transmitting ERP (watts)	39.359	3.884	0.163	0.164	0.163	3.073	35.149	81.833

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
49	36-49-53.1 N	086-54-51.9 W	253.9	87.8	1043422

Address: 374 SARAH CELL LANE (79468)
City: RUSSELLVILLE County: LOGAN 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)	147.800	136.900	122.800	139.500	151.400	149.000	137.200	143.600
Transmitting ERP (watts)	13.191	15.375	20.623	9.724	2.241	0.917	1.606	4.394

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)	147.800	136.900	122.800	139.500	151.400	149.000	137.200	143.600
Transmitting ERP (watts)	0.302	19.944	70.809	141.157	91.158	151.443	56.229	39.824

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)	147.800	136.900	122.800	139.500	151.400	149.000	137.200	143.600
Transmitting ERP (watts)	165.961	47.564	35.048	13.108	19.047	126.532	254.037	264.411

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
50	37-06-13.5 N	086-11-31.9 W	248.4	94.5	1043426

Address: HWY 31 W. 15.5 MILES NORTH OF BOWLING GREEN (76162)
City: BROWNSVILLE County: EDMONSON 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)	132.900	119.800	121.900	132.500	139.700	156.900	138.100	144.700
Transmitting ERP (watts)	76.433	61.831	10.136	0.490	0.153	0.153	1.751	22.332

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
50	37-06-13.5 N	086-11-31.9 W	248.4	94.5	1043426

Address: HWY 31 W. 15.5 MILES NORTH OF BOWLING GREEN (76162)
City: BROWNSVILLE County: EDMONSON State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.900	119.800	121.900	132.500	139.700	156.900	138.100	144.700
Transmitting ERP (watts)	0.140	2.140	18.403	33.047	18.411	2.087	0.101	0.132

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)	132.900	119.800	121.900	132.500	139.700	156.900	138.100	144.700
Transmitting ERP (watts)	0.717	0.100	0.100	0.363	4.848	26.904	32.711	9.981

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
51	37-59-01.3 N	086-09-28.7 W	201.5	81.1	1061285

Address: 754 HIGHWAY 448 (76175)
City: BRANDENBURG County: MEADE 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)	92.900	81.400	121.600	71.000	57.800	78.400	81.600	124.800
Transmitting ERP (watts)	127.297	121.679	155.422	85.508	30.247	22.406	27.837	41.126

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)	92.900	81.400	121.600	71.000	57.800	78.400	81.600	124.800
Transmitting ERP (watts)	0.549	6.006	49.925	208.129	273.538	212.776	43.513	17.704

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)	92.900	81.400	121.600	71.000	57.800	78.400	81.600	124.800
Transmitting ERP (watts)	165.198	47.446	34.954	13.065	18.961	125.826	253.004	262.909

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
52	37-32-55.4 N	087-16-05.4 W	140.2	93.0	1244911

Address: 235 WEST KY 136 (76190)
City: CALHOUN County: MCLEAN 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)	93.700	104.200	101.700	109.900	107.300	112.600	113.000	103.500
Transmitting ERP (watts)	12.048	14.042	18.841	8.872	2.043	0.838	1.462	4.009

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
52	37-32-55.4 N	087-16-05.4 W	140.2	93.0	1244911

Address: 235 WEST KY 136 (76190)
City: CALHOUN County: MCLEAN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.700	104.200	101.700	109.900	107.300	112.600	113.000	103.500
Transmitting ERP (watts)	0.263	1.499	8.907	25.402	25.096	29.869	6.908	2.214

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)	93.700	104.200	101.700	109.900	107.300	112.600	113.000	103.500
Transmitting ERP (watts)	13.485	2.840	1.968	1.182	1.861	9.279	14.950	16.111

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
53	37-23-57.3 N	087-14-11.0 W	142.6	66.4	1043462

Address: 1266 Coffman School House Road (114157)
City: Sacramento County: MCLEAN 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)	78.900	71.400	72.900	65.300	58.100	76.700	81.000	71.700
Transmitting ERP (watts)	167.796	70.666	5.756	0.746	0.337	0.392	10.993	84.493

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)	78.900	71.400	72.900	65.300	58.100	76.700	81.000	71.700
Transmitting ERP (watts)	2.293	23.373	125.220	157.181	33.002	3.023	0.420	0.529

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)	78.900	71.400	72.900	65.300	58.100	76.700	81.000	71.700
Transmitting ERP (watts)	1.557	0.314	0.315	5.633	46.706	157.098	119.251	12.856

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
54	36-44-32.4 N	087-03-22.0 W	177.4	60.7	

Address: 12442 Clarksville Rd (119164)
City: Olmstead County: LOGAN 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)	38.700	51.200	58.700	61.000	61.600	65.600	54.200	43.800
Transmitting ERP (watts)	213.908	284.249	320.934	124.084	41.802	16.187	21.717	47.543

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
54	36-44-32.4 N	087-03-22.0 W	177.4	60.7	

Address: 12442 Clarksville Rd (119164)
City: Olmstead County: LOGAN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	38.700	51.200	58.700	61.000	61.600	65.600	54.200	43.800
Transmitting ERP (watts)	0.398	2.494	20.501	62.455	72.666	71.877	14.509	4.740

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)	38.700	51.200	58.700	61.000	61.600	65.600	54.200	43.800
Transmitting ERP (watts)	70.857	7.567	2.665	0.972	2.148	48.281	243.184	333.088

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
55	36-44-33.6 N	086-30-05.7 W	209.4	74.7	1057217

Address: 680 Phillips Lane (37504)
City: Franklin County: SIMPSON 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)	86.700	76.200	71.800	57.600	57.100	67.700	72.000	80.500
Transmitting ERP (watts)	114.881	151.450	45.595	2.950	0.302	0.353	1.123	17.809

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)	86.700	76.200	71.800	57.600	57.100	67.700	72.000	80.500
Transmitting ERP (watts)	0.274	0.273	1.936	29.962	137.017	135.788	29.053	1.424

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)	86.700	76.200	71.800	57.600	57.100	67.700	72.000	80.500
Transmitting ERP (watts)	36.885	2.023	0.286	0.291	1.454	23.079	126.851	143.582

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
56	37-33-42.0 N	087-06-34.0 W	153.9	64.6	1043552

Address: 5020 HWY 431 (114800)
City: North Calhoun County: MCLEAN 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)	73.000	67.700	60.800	71.600	77.400	81.300	63.900	67.300
Transmitting ERP (watts)	158.393	151.166	193.708	106.192	37.702	27.960	34.683	51.309

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
56	37-33-42.0 N	087-06-34.0 W	153.9	64.6	1043552

Address: 5020 HWY 431 (114800)
City: North Calhoun County: MCLEAN State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	73.000	67.700	60.800	71.600	77.400	81.300	63.900	67.300
Transmitting ERP (watts)	0.579	17.567	97.454	288.731	259.116	288.697	84.790	47.492

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)	73.000	67.700	60.800	71.600	77.400	81.300	63.900	67.300
Transmitting ERP (watts)	225.807	88.641	98.488	33.766	42.937	203.385	284.088	256.109

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
57	37-53-45.0 N	086-49-51.0 W	164.5	65.6	1043711

Address: OLD LEWISPORT OWENSBORO RD (118228)
City: HAWESVILLE County: HANCOCK 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)	89.400	84.300	98.800	62.900	81.500	94.100	95.600	100.200
Transmitting ERP (watts)	145.138	138.457	177.189	97.486	34.591	25.653	31.702	46.927

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)	89.400	84.300	98.800	62.900	81.500	94.100	95.600	100.200
Transmitting ERP (watts)	0.626	6.840	56.877	237.296	312.736	242.992	49.505	20.160

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)	89.400	84.300	98.800	62.900	81.500	94.100	95.600	100.200
Transmitting ERP (watts)	206.536	81.243	90.088	30.991	39.380	186.420	259.807	234.243

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
58	37-56-52.0 N	085-59-37.8 W	221.0	59.4	1204254

Address: 115 Timber Court (37606)
City: Muldraugh County: MEADE 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)	82.000	113.300	99.300	64.300	63.500	56.300	78.500	87.900
Transmitting ERP (watts)	4.679	4.917	0.983	0.100	0.100	0.100	0.100	1.023

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN748

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
58	37-56-52.0 N	085-59-37.8 W	221.0	59.4	1204254

Address: 115 Timber Court (37606)

City: Muldraugh County: MEADE State: KY Construction Deadline:

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.000	113.300	99.300	64.300	63.500	56.300	78.500	87.900
Transmitting ERP (watts)	0.100	0.100	0.790	17.085	30.505	3.551	0.100	0.100

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	82.000	113.300	99.300	64.300	63.500	56.300	78.500	87.900
Transmitting ERP (watts)	0.100	0.100	0.100	0.309	10.332	36.527	6.709	0.159

Control Points:

Control Pt. No. 1

Address: 1650 Lyndon Farms Court

City: LOUISVILLE County: State: KY Telephone Number: (502)329-4700

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).

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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

Call Sign KNLG230	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 04-11-2017	Effective Date 08-31-2018	Expiration Date 04-28-2027	Print Date
Market Number BTA083	Channel Block F	Sub-Market Designator 1	
Market Name Clarksville, TN-Hopkinsville,			
1st Build-out Date 04-28-2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

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.

This authorization is conditioned upon the full and timely payment of all monies due pursuant to Sections 1.2110 and 24.716 of the Commission's Rules and the terms of the Commission's installment plan as set forth in the Note and Security Agreement executed by the licensee. Failure to comply with this condition will result in the automatic cancellation of this authorization.

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: KNLG230

File Number:

Print Date:

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).

Reference Copy

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLG230

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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

Call Sign KNLH416	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 04-10-2017	Effective Date 08-31-2018	Expiration Date 04-28-2027	Print Date
Market Number BTA083	Channel Block D	Sub-Market Designator 0	
Market Name Clarksville, TN-Hopkinsville,			
1st Build-out Date 04-28-2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

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.

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLH416

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.

Reference Copy

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLH416

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: NEW GINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW GINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign KNLH417	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 04-13-2017	Effective Date 08-31-2018	Expiration Date 04-28-2027	Print Date
Market Number BTA083	Channel Block E	Sub-Market Designator 0	
Market Name Clarksville, TN-Hopkinsville,			
1st Build-out Date 04-28-2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

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.

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLH417

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.

Reference Copy

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLH417

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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

Call Sign WPOI256	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 06-02-2015	Effective Date 08-31-2018	Expiration Date 06-23-2025	Print Date
Market Number MTA043	Channel Block B	Sub-Market Designator 2	
Market Name Nashville			
1st Build-out Date 06-23-2000	2nd Build-out Date 06-23-2005	3rd Build-out Date	4th Build-out Date

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.

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPOI256

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).

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).

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPOI256

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WQGD546	File Number
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 12-18-2006	Effective Date 08-31-2018	Expiration Date 12-18-2021	Print Date
Market Number CMA445	Channel Block A	Sub-Market Designator 0	
Market Name Kentucky 3 - Meade			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGD546

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST. RM 1015
DALLAS, TX 75202

Call Sign WQGD758	File Number
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 12-18-2006	Effective Date 02-20-2019	Expiration Date 12-18-2021	Print Date
Market Number BEA071	Channel Block C	Sub-Market Designator 5	
Market Name Nashville, TN-KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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: WQGD758

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1015
DALLAS, TX 75202

Call Sign WQGT878	File Number
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 04-16-2007	Effective Date 08-31-2018	Expiration Date 04-16-2022	Print Date
Market Number BEA069	Channel Block C	Sub-Market Designator 0	
Market Name Evansville-Henderson, IN-KY-IL			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

This authorization is conditioned upon the licensee, prior to initiating operations from any base or fixed station, making reasonable efforts to coordinate frequency usage with known co-channel and adjacent channel incumbent federal users operating in the 1710-1755 MHz band whose facilities could be affected by the proposed operations. See, e.g., FCC and NTIA Coordination Procedures in the 1710-1755 MHz Band, Public Notice, FCC 06-50, WTB Docket No. 02-353, rel. April 20, 2006.

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: WQGT878

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
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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

Call Sign WQQQ250	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 04-26-2017	Effective Date 08-31-2018	Expiration Date 04-28-2027	Print Date
Market Number BTA083	Channel Block F	Sub-Market Designator 2	
Market Name Clarksville, TN-Hopkinsville,			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

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.

This authorization is conditioned upon the full and timely payment of all monies due pursuant to Sections 1.2110 and 24.716 of the Commission's Rules and the terms of the Commission's installment plan as set forth in the Note and Security Agreement executed by the licensee. Failure to comply with this condition will result in the automatic cancellation of this authorization.

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: WQQQ250

File Number:

Print Date:

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).

Reference Copy

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQQQ250

File Number:

Print Date:

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status
---------------	--------------------	--------------------------	------------------------------	---------------

Reference Copy

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

Table with Call Sign (WQZA691), File Number, and Radio Service (CW - PCS Broadband).

FCC Registration Number (FRN): 0003291192

Table with columns: Grant Date, Effective Date, Expiration Date, Print Date, Market Number, Channel Block, Sub-Market Designator, Market Name, 1st-4th Build-out Dates.

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.

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).

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.

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).

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQZA691

File Number:

Print Date:

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQZA691

File Number:

Print Date:

700 MHz Relicensed Area Information:

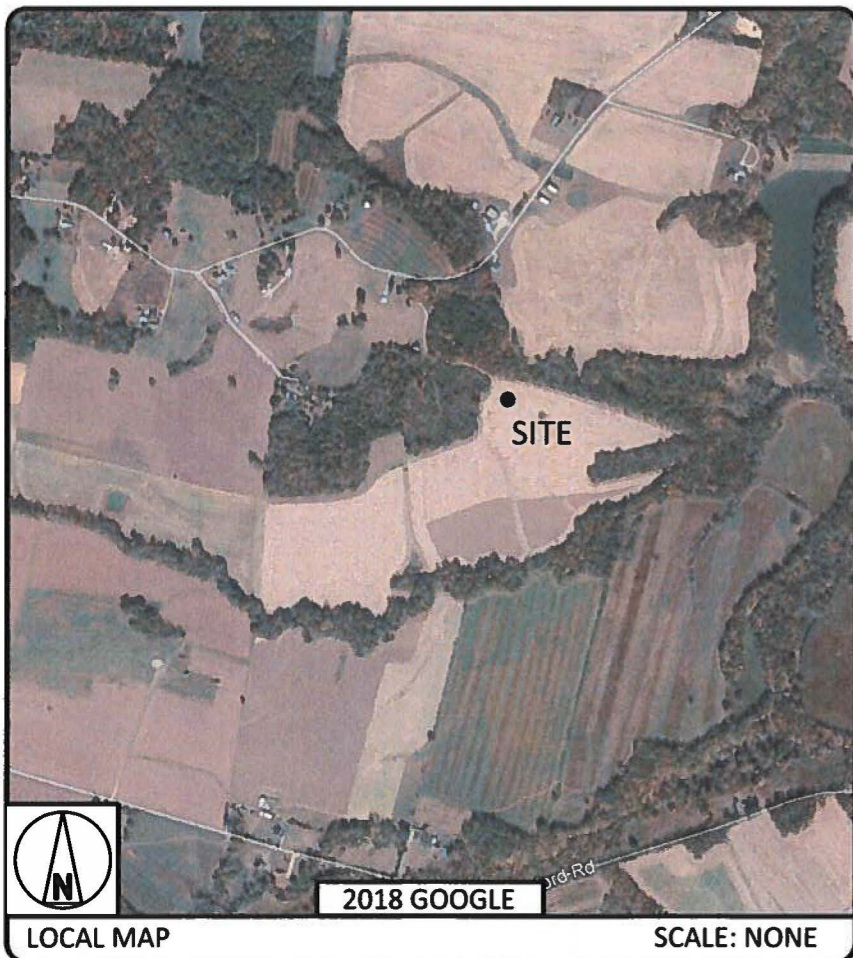
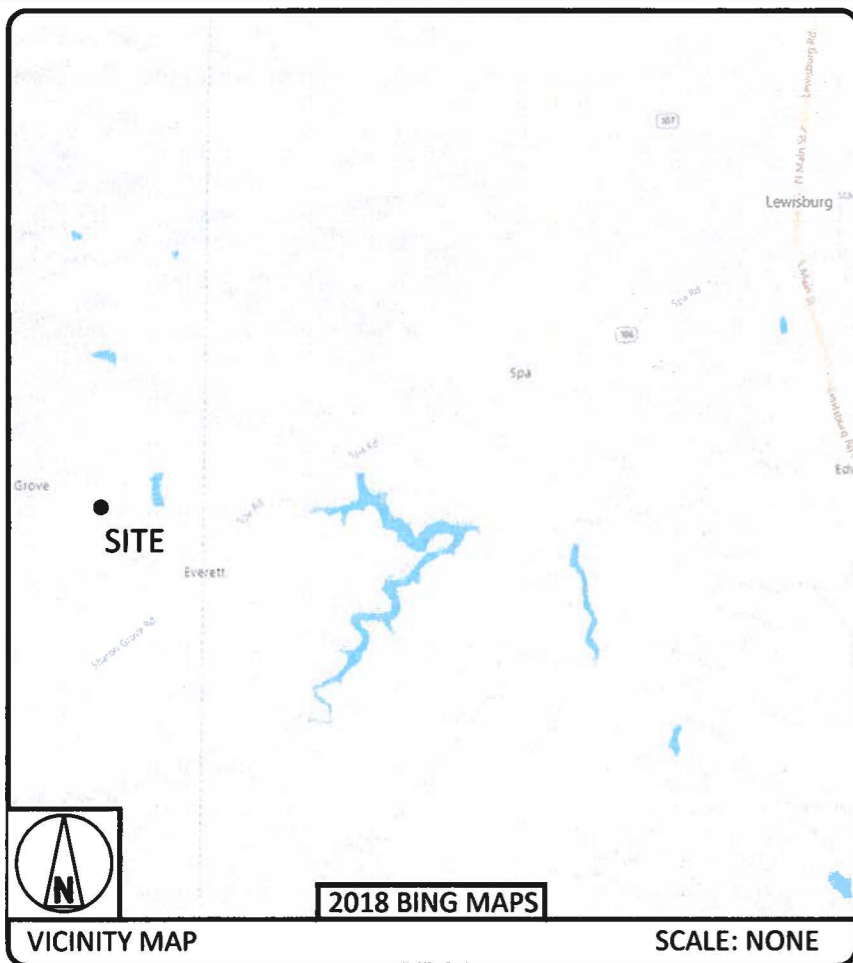
Market	Market Name	Buildout Deadline	Buildout Notification	Status
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Reference Copy

EXHIBIT B

SITE DEVELOPMENT PLAN:

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



at&t Mobility

SITE NAME:
DUNCAN RIDGE

SITE NUMBER:
KYL03681

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 AND DIESEL GENERATOR ON 10' X 17' CONCRETE EQUIPMENT PAD

DRIVE DIRECTIONS	
STARTING AT TODD COUNTY, JUDGE EXECUTIVE OFFICE AT 202 EAST WASHINGTON STREET ELKTON, KY 42220;	
HEAD WEST ON E WASHINGTON ST TOWARD WILLIAMS LN	154 FT
TURN RIGHT ONTO WILLIAMS LN	394 FT
TURN RIGHT ONTO PUBLIC SQUARE	213 FT
TURN RIGHT ONTO KY-181 N/N MAIN ST	1.5 MI
TURN RIGHT ONTO KY-106 N	2.6 MI
TURN RIGHT TO STAY ON KY-106 N	4.5 MI
TURN LEFT ONTO MT SHARON GROVE RD/SHARON GROVE-CLIFF HILL RD	2.6 MI
TURN RIGHT ONTO ANTIOCH CHURCH RD	1.2 MI

DIRECTIONS PREPARED BY GPD GROUP, INC. (330-572-2100)

SCOPE OF WORK:	ENGINEER:
CONSTRUCTION DRAWINGS FOR: CONSTRUCTION OF A NEW UNMANNED TELECOMMUNICATIONS FACILITY.	GPD GROUP, INC. 520 SOUTH MAIN STREET, SUITE 2531 AKRON, OH 44311 CONTACT: MATT LAUCHER PHONE: (330) 572-2100
SITE WORK: NEW TOWER, UNMANNED CONCRETE SHELTER WITH GENERATOR ON CONCRETE PAD, AND UTILITY INSTALLATIONS.	

PROJECT INFORMATION	
SITE NAME:	DUNCAN RIDGE
SITE NUMBER:	KYL03681
USID:	185924
FA LOCATION:	13800711
SITE ADDRESS:	ANTIOCH CHURCH RD. SHARON GROVE, KY 42280
COUNTY:	TODD COUNTY
LATITUDE:	36° 56' 42.51" N
LONGITUDE:	87° 04' 14.38" W
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

CONTACT INFORMATION	
FIRE DEPARTMENT SHARON GROVE VOLUNTEER FIRE DEPARTMENT PHONE: (270) 277-6757	
POLICE DEPARTMENT TODD COUNTY SHERIFF PHONE: (270) 265-9966	
ELECTRIC COMPANY KENTUCKY POWER PHONE: 1-800-572-1113	
TELEPHONE COMPANY TBD	

SHEET INDEX	
T-1	TITLE SHEET & PROJECT INFORMATION
SURVEY:	
B-1	SITE SURVEY
B-2	500' RADIUS & ABUTTER'S MAP
B-3	UTILITY EASEMENTS
B-4	UTILITY EASEMENTS
CIVIL:	
C-1	OVERALL SITE LAYOUT
C-2	ENLARGED COMPOUND LAYOUT
C-3	TOWER ELEVATION

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:	
<ul style="list-style-type: none"> 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 2018 KENTUCKY BUILDING CODE 2014 NFPA 70 - NATIONAL ELECTRICAL CODE 	
FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN.	

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN KENTUCKY, CALL KENTUCKY 811
TOLL FREE: 1-800-752-6007 OR www.kentucky811.org
KENTUCKY STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

Know what's below.
Call before you dig.

PREPARED BY:

GPD GROUP, INC.
520 South Main Street, Suite 2531
Akron, OH 44311
330.572.2100 Fax: 330.572.2102

PREPARED FOR:

MasTec
Network Solutions
1975 JOE B JACKSON PARKWAY
MURFREESBORO, TN 37127

APPLICANT/OWNER:

at&t
Mobility
462 S 4TH ST, SUITE 2400
LOUISVILLE, KY 40202

STATE OF KENTUCKY
9/18/2019
LEONARDO A. SFERRA
SFERRA
31562
LICENSED PROFESSIONAL ENGINEER

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PROJECT NO:	2019723.14
DRAWN BY:	DTC
CHECKED BY:	LJB

REV	DATE	DESCRIPTION
A	04/02/19	ISSUED FOR CLIENT REVIEW
B	04/19/19	REVISED PER COMMENTS
C	08/08/19	REVISED PER NEW SURVEY
D	09/12/19	REVISED PER COMMENTS
1	09/18/19	REVISED SURVEY

SITE INFORMATION:	
DUNCAN RIDGE	
185924	
13800711	
ANTIOCH CHURCH RD. SHARON GROVE, KY 42280 TODD COUNTY	

SITE NUMBER:	KYL03681
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SHEET TITLE:	TITLE SHEET
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SHEET NUMBER:	T-1
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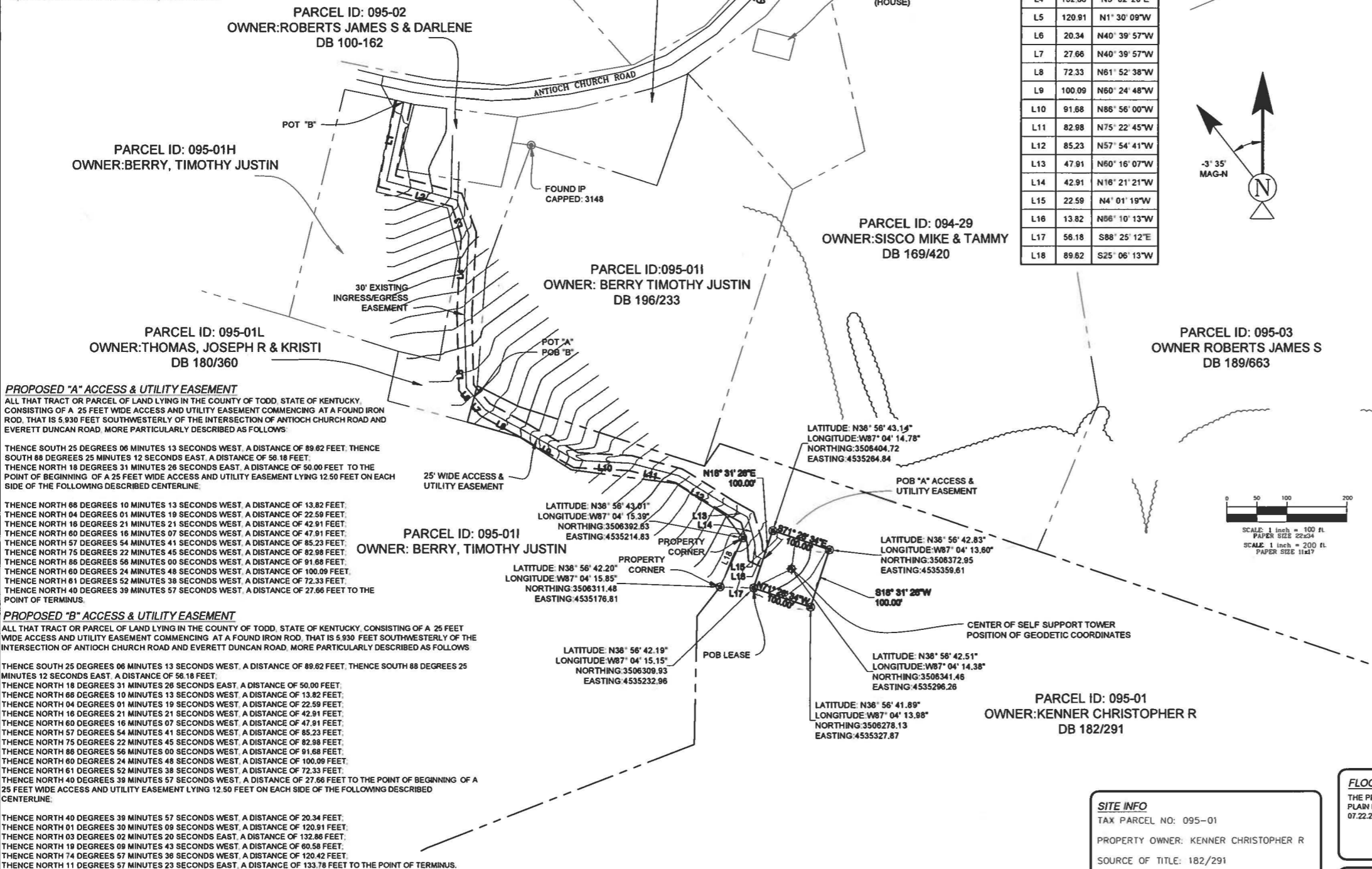
PROPOSED LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING IN THE COUNTY OF TODD, STATE OF KENTUCKY, CONSISTING OF A 100 FEET BY 100 FEET LEASE AREA, COMMENCING AT A FOUND IRON ROD, THAT IS 5,930 FEET SOUTHWESTERLY OF THE INTERSECTION OF ANTIPOCH CHURCH ROAD AND EVERETT DUNCAN ROAD, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

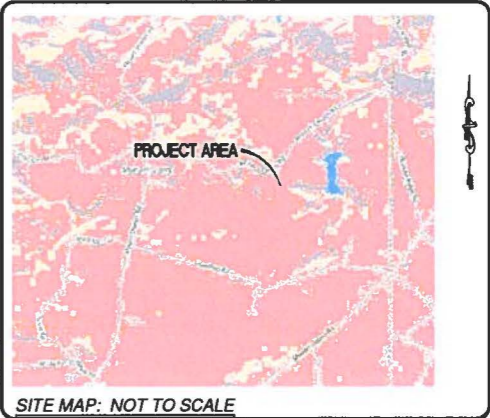
THENCE SOUTH 25 DEGREES 06 MINUTES 13 SECONDS WEST, A DISTANCE OF 89.62 FEET, THENCE SOUTH 88 DEGREES 25 MINUTES 12 SECONDS EAST, A DISTANCE OF 56.18 FEET TO THE POINT OF BEGINNING.

THENCE NORTH 18 DEGREES 31 MINUTES 26 SECONDS EAST, A DISTANCE OF 100.00 FEET, THENCE SOUTH 71 DEGREES 28 MINUTES 34 SECONDS EAST, A DISTANCE OF 100.00 FEET, THENCE SOUTH 18 DEGREES 31 MINUTES 26 SECONDS WEST, A DISTANCE OF 100.00 FEET, THENCE NORTH 71 DEGREES 28 MINUTES 34 SECONDS WEST, A DISTANCE OF 100.00 FEET TO THE POINT OF BEGINNING.

10,000 SQUARE FEET OR 0.2295 ACRES, MORE OR LESS



Line #	Length	Direction
L1	133.78	N11° 57' 23"E
L2	120.42	N74° 57' 36"W
L3	60.58	N19° 09' 43"W
L4	132.86	N3° 02' 20"E
L5	120.91	N1° 30' 09"W
L6	20.34	N40° 39' 57"W
L7	27.66	N40° 39' 57"W
L8	72.33	N61° 52' 38"W
L9	100.09	N60° 24' 48"W
L10	91.68	N86° 56' 00"W
L11	82.98	N75° 22' 45"W
L12	85.23	N57° 54' 41"W
L13	47.91	N60° 16' 07"W
L14	42.91	N16° 21' 21"W
L15	22.59	N4° 01' 19"W
L16	13.82	N66° 10' 13"W
L17	56.18	S88° 25' 12"E
L18	89.62	S25° 06' 13"W



BENCHMARK
ELEVATION ESTABLISHED FROM GPS OBSERVATIONS CONSTRAINED TO OPUS SOLUTIONS, APPLYING GEOID 12A SEPARATIONS NAVD88 DATUM.

BASIS OF BEARINGS
BEARINGS SHOWN HEREON ARE BASED UPON U.S. STATE PLANE NAD83 COORDINATE SYSTEM KENTUCKY SINGLE ZONE US FOOT, DETERMINED BY GPS OBSERVATIONS, COMPLETED ON 11.17.17

UTILITY NOTES
SURVEYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THEIR LOCATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT LOCAL 811 AND ANY OTHER INVOLVED AGENCIES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. REMOVAL, RELOCATION AND/OR REPLACEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR.

SURVEYOR NOTES
NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT PARCEL.

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

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

THIS SURVEY IS NOT INTENDED FOR LAND TRANSFER.

SURVEYOR HAS NOT PERFORMED A SEARCH OF PUBLIC RECORDS TO DETERMINE ANY DEFECT IN TITLE ISSUED. THE BOUNDARY SHOWN HEREON IS PLOTTED FROM RECORD INFORMATION AND DOES NOT CONSTITUTE A BOUNDARY SURVEY OF THE PROPERTY.

THIS SURVEY PLAN WAS PERFORMED UNDER THE AUTHORITY OF KENTUCKY REVISED STATUTES (201 KAR 18, 150), AND IS NOT TO BE CONSIDERED A GENERAL PROPERTY BOUNDARY SURVEY AS DEFINED WITH KENTUCKY REVISED STATUTES. DIMENSIONS (IF SHOWN) ALONG THE PERIMETER OF THE LANDOWNER'S PROPERTY ARE PROVIDED UNDER THIS SURVEYOR'S SCOPE OF SERVICES WITH AT&T AND ARE TO BE CONSIDERED FOR REFERENCE ONLY. THE EXACT LOCATION OF THE LANDOWNER'S PROPERTY MAY DIFFER UPON THE PREPARATION OF A FULL BOUNDARY SURVEY IN ACCORDANCE WITH THE REQUIREMENTS ESTABLISHED BY THE STATE OF KENTUCKY.

THIS SURVEY WAS PERFORMED WITH A CARLSON BR+5+ DUAL FREQUENCY, REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM ROVER AND BASE STATION H/W B16130147501133 & B16130147501126 SERIAL NUMBERS, REDUNDANT AND REPETITIVE MEASUREMENTS WERE TAKEN TO INSURE CORRECT POSITIONS OF ALL DATA POINTS...A TOLERANCE OF 0.04' FOR POSITIONAL ACCURACY.

SITE INFO
TAX PARCEL NO: 095-01
PROPERTY OWNER: KENNER CHRISTOPHER R
SOURCE OF TITLE: 182/291

FAA COORDINATE POINT
CENTER OF SELF SUPPORT TOWER (NAD83)
LATITUDE 36° 56' 42.51" NORTH
LONGITUDE 87° 04' 14.38" WEST
ELEVATION 572.00' (NAVD88)

1-A ACCURACY CERTIFICATION
THE HORIZONTAL ACCURACY OF THE LATITUDE AND LONGITUDE OF THE GEODETIC COORDINATES FALL WITHIN TWENTY (20) FEET. THE ELEVATIONS (NAVD88) OF THE GROUND AND FIXTURES FALL WITHIN THREE (3) FEET.

FLOOD INFORMATION
THE PROPOSED LEASE AREA SHOWN HEREON IS NOT LOCATED IN A 100-YEAR FLOOD PLAIN PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NO. 21219C0150C, DATED 07.22.2010. THE PROPOSED LEASE AREA IS LOCATED IN ZONE "X".

LEGEND

- POB POINT OF BEGINNING
- POT POINT OF TERMINUS
- PUE PUBLIC UTILITY EASEMENT
- ROW RIGHT OF WAY
- DW DRIVEWAY
- SW SIDEWALK
- ⊙ SET 1/2"x24" IR CAPPED: #3219 OR FOUND AS NOTED
- SPOT ELEVATION
- POSITION OF GEODETIC COORDINATES
- WATER CONTROL VALVE
- FIRE HYDRANT
- POWER POLE
- ELECTRIC MANHOLE
- TELCO MANHOLE
- ONE — OVERHEAD ELECTRIC
- PROPERTY LINE
- BARBED WIRE FENCE

LAND SURVEYOR'S CERTIFICATE
I, A. CLAY ROBINSON, 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 PLAN 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 PLAN ON WHICH IT IS BASED, MEETS ALL SPECIFICATION AS STATES IN KAR 201-18.150.

SIGNED: *A. Clay Robinson* 7.12.19
DATE

TITLE REPORT INFO
REFERENCE IS MADE TO THE TITLE REPORT ORDER #00300-20170238, ISSUED BY STEWART INSURANCE COMPANY, DATED AUGUST 7, 2017. ALL EASEMENTS CONTAINED WITHIN SAID TITLE REPORT AFFECTING THE IMMEDIATE AREA SURROUNDING THE LEASE HAVE BEEN PLOTTED (EXCEPT FOR ROOFTOPS).

SCHEDULE B ITEMS:

- RIGHT OF WAY EASEMENT TO PENNYRILE RURAL ELECTRIC COOPERATIVE CORP. RECORDED IN DEED BOOK 125, PAGE 282, DEED BOOK 125 PAGE 283, DEED BOOK 112, PAGE 733. (NOT ABLE TO PLOT, EASEMENT OVER EXISTING POWER LINE, NO POWER LINE WAS WITNESSED ON OR AROUND LEASE AREA AT TIME OF SURVEY)
- RIGHT OF WAY EASMENT FOR INGRESS EGRESS AS SET FORTH IN DEED DATED DECEMBER 4, 2007 OF RECORD IN DEED BOOK 180, PAGE 380. (SHOWN AS ACCESS EASEMENT ON PARCEL 095-01L, EXISTING DRIVE ROAD)



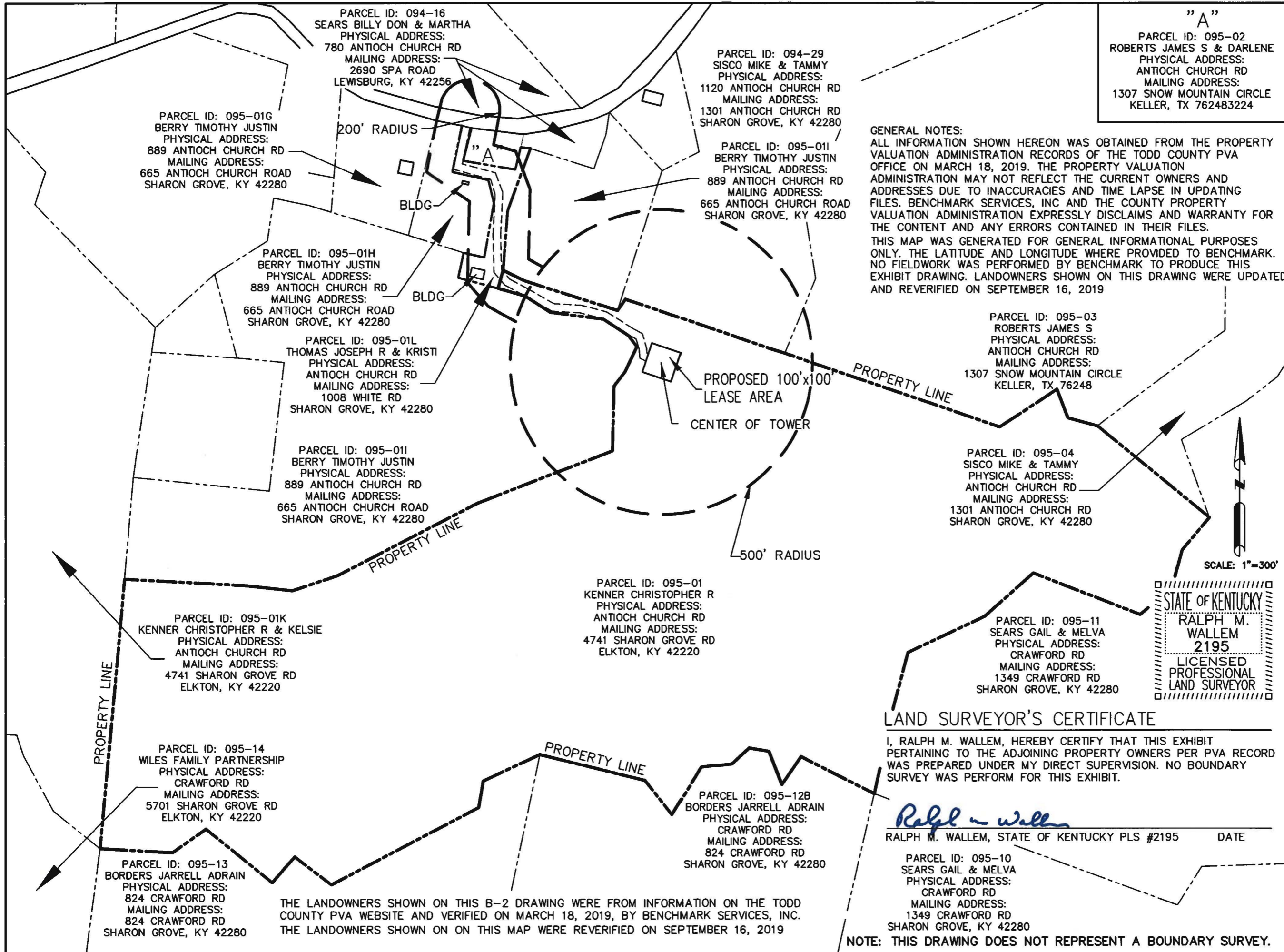
DRAWN BY: _____
CHECKED BY: _____

REV	DATE	DESCRIPTION
A	11.20.17	REVIEW



FA # 13800711
SITE # KYL03681
SITE NAME: DUNCAN RIDGE
SITE ADDRESS: ANTIPOCH CHURCH RD SHARON GROVE, KY 42280 TODD COUNTY

SHEET TITLE TOPOGRAPHIC SITE SURVEY
SHEET NUMBER B-1



PREPARED FOR:
 " A "
 PARCEL ID: 095-02
 ROBERTS JAMES S & DARLENE
 PHYSICAL ADDRESS:
 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 1307 SNOW MOUNTAIN CIRCLE
 KELLER, TX 762483224

PREPARED FOR:

BENCHMARK SERVICES, INC.
 Consulting Engineers
 Land Surveyors
 318 North Main Street
 Huntingburg, IN 47542
 (812) 683-3049
 benchmark@mw.twcba.com

GENERAL NOTES:
 ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE PROPERTY VALUATION ADMINISTRATION RECORDS OF THE TODD COUNTY PVA OFFICE ON MARCH 18, 2019. THE PROPERTY VALUATION ADMINISTRATION MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO INACCURACIES AND TIME LAPSE IN UPDATING FILES. BENCHMARK SERVICES, INC AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS AND WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES.
 THIS MAP WAS GENERATED FOR GENERAL INFORMATIONAL PURPOSES ONLY. THE LATITUDE AND LONGITUDE WHERE PROVIDED TO BENCHMARK. NO FIELDWORK WAS PERFORMED BY BENCHMARK TO PRODUCE THIS EXHIBIT DRAWING. LANDOWNERS SHOWN ON THIS DRAWING WERE UPDATED AND REVERIFIED ON SEPTEMBER 16, 2019

SITE INFORMATION:

SITE NUMBER:
 KYL03681

SITE NAME:
 DUNCAN RIDGE

SITE ADDRESS:
 ANTIOCH CHURCH ROAD
 SHARON GROVE, KY 42280
 TODD COUNTY

TAX PARCEL NUMBER:
 095-01

PROPERTY OWNER:
 CHRISTOPHER R KENNER
 4741 SHARON GROVE RD
 ELKTON, KY 42220

SOURCE OF TITLE:
 DEED BOOK 182
 PAGE 291

LATITUDE: 36° 56' 42.51" N
LONGITUDE: 87° 04' 14.38" W

DWG BY:	CHKD BY:	DATE:
GVV	RMW	2.12.19
REV:	REVISION:	DATE:
1.	PER REVIEW	5.30.19
2.	PIKE REQUEST	9.11.19
	FINAL	
3.	FINAL	9.16.19

LAND SURVEYOR NOTE:
 THIS DRAWING REPRESENTS AND EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS, NO SURVEY WAS COMPLETED ON THE PARENT PARCEL BY BENCHMARK SERVICES, INC.

SHEET TITLE:
 500' RADIUS
 ABUTTERS MAP

SHEET NUMBER:
 B-2

PARCEL ID: 095-01H
 BERRY TIMOTHY JUSTIN
 PHYSICAL ADDRESS:
 889 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 665 ANTIOCH CHURCH ROAD
 SHARON GROVE, KY 42280

PARCEL ID: 095-01L
 THOMAS JOSEPH R & KRISTI
 PHYSICAL ADDRESS:
 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 1008 WHITE RD
 SHARON GROVE, KY 42280

PARCEL ID: 095-01I
 BERRY TIMOTHY JUSTIN
 PHYSICAL ADDRESS:
 889 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 665 ANTIOCH CHURCH ROAD
 SHARON GROVE, KY 42280

PARCEL ID: 095-01K
 KENNER CHRISTOPHER R & KELSIE
 PHYSICAL ADDRESS:
 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 4741 SHARON GROVE RD
 ELKTON, KY 42220

PARCEL ID: 095-01J
 WILES FAMILY PARTNERSHIP
 PHYSICAL ADDRESS:
 CRAWFORD RD
 MAILING ADDRESS:
 5701 SHARON GROVE RD
 ELKTON, KY 42220

PARCEL ID: 095-01M
 BORDERS JARRELL ADRAIN
 PHYSICAL ADDRESS:
 824 CRAWFORD RD
 MAILING ADDRESS:
 824 CRAWFORD RD
 SHARON GROVE, KY 42280

PARCEL ID: 094-16
 SEARS BILLY DON & MARTHA
 PHYSICAL ADDRESS:
 780 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 2690 SPA ROAD
 LEWISBURG, KY 42256

PARCEL ID: 094-29
 SISCO MIKE & TAMMY
 PHYSICAL ADDRESS:
 1120 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 1301 ANTIOCH CHURCH RD
 SHARON GROVE, KY 42280

PARCEL ID: 095-01I
 BERRY TIMOTHY JUSTIN
 PHYSICAL ADDRESS:
 889 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 665 ANTIOCH CHURCH ROAD
 SHARON GROVE, KY 42280

PARCEL ID: 095-03
 ROBERTS JAMES S
 PHYSICAL ADDRESS:
 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 1307 SNOW MOUNTAIN CIRCLE
 KELLER, TX 76248

PARCEL ID: 095-04
 SISCO MIKE & TAMMY
 PHYSICAL ADDRESS:
 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 1301 ANTIOCH CHURCH RD
 SHARON GROVE, KY 42280

PARCEL ID: 095-11
 SEARS GAIL & MELVA
 PHYSICAL ADDRESS:
 CRAWFORD RD
 MAILING ADDRESS:
 1349 CRAWFORD RD
 SHARON GROVE, KY 42280

PARCEL ID: 095-01
 KENNER CHRISTOPHER R
 PHYSICAL ADDRESS:
 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 4741 SHARON GROVE RD
 ELKTON, KY 42220

PARCEL ID: 095-12B
 BORDERS JARRELL ADRAIN
 PHYSICAL ADDRESS:
 CRAWFORD RD
 MAILING ADDRESS:
 824 CRAWFORD RD
 SHARON GROVE, KY 42280

PARCEL ID: 095-10
 SEARS GAIL & MELVA
 PHYSICAL ADDRESS:
 CRAWFORD RD
 MAILING ADDRESS:
 1349 CRAWFORD RD
 SHARON GROVE, KY 42280

STATE OF KENTUCKY
 RALPH M. WALLEM
 2195
 LICENSED PROFESSIONAL LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE

I, RALPH M. WALLEM, HEREBY CERTIFY THAT THIS EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS PER PVA RECORD WAS PREPARED UNDER MY DIRECT SUPERVISION. NO BOUNDARY SURVEY WAS PERFORM FOR THIS EXHIBIT.

Ralph M. Wallem
 RALPH M. WALLEM, STATE OF KENTUCKY PLS #2195 DATE

PARCEL ID: 095-10
 SEARS GAIL & MELVA
 PHYSICAL ADDRESS:
 CRAWFORD RD
 MAILING ADDRESS:
 1349 CRAWFORD RD
 SHARON GROVE, KY 42280

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

THE LANDOWNERS SHOWN ON THIS B-2 DRAWING WERE FROM INFORMATION ON THE TODD COUNTY PVA WEBSITE AND VERIFIED ON MARCH 18, 2019, BY BENCHMARK SERVICES, INC. THE LANDOWNERS SHOWN ON ON THIS MAP WERE REVERIFIED ON SEPTEMBER 16, 2019

LAND SURVEYOR'S CERTIFICATE

I, RALPH M. WALLEM, 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 SURVEY ON THE LAND WER PERFORMED BY ME, OR PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS ARE BEING WITNESSED BY MONUMENTS SHOWN HEREON AND 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.

Ralph M. Wallem

5.15.19

RALPH M. WALLEM, STATE OF KENTUCKY PLS #2195

DATE

PREPARED FOR:



PREPARED FOR:



Consulting Engineers
Land Surveyors
318 North Main Street
Huntingburg, IN 47542
(812) 663-3049

SITE INFORMATION:

SITE NUMBER:
KYLO3681

SITE NAME:
DUNCAN RIDGE

SITE ADDRESS:
ANTIOCH CHURCH ROAD
SHARON GROVE, KY 42280
TODD COUNTY

TAX PARCEL NUMBER:
095-01H
095-01L

PROPERTY OWNERS:
TIMOTHY JUSTIN BERRY
PARCEL ID: 095-01H
DEED BOOK 196, PAGE 233
JOSEPH R & KRISTI THOMAS
PARCEL ID: 095-01L
DEED BOOK 180, PAGE 360

LATITUDE: 36° 56' 42.51" N
LONGITUDE: 87° 04' 14.38" W

DWG BY:	CHKD BY:	DATE:
GWV	RMW	5.15.19

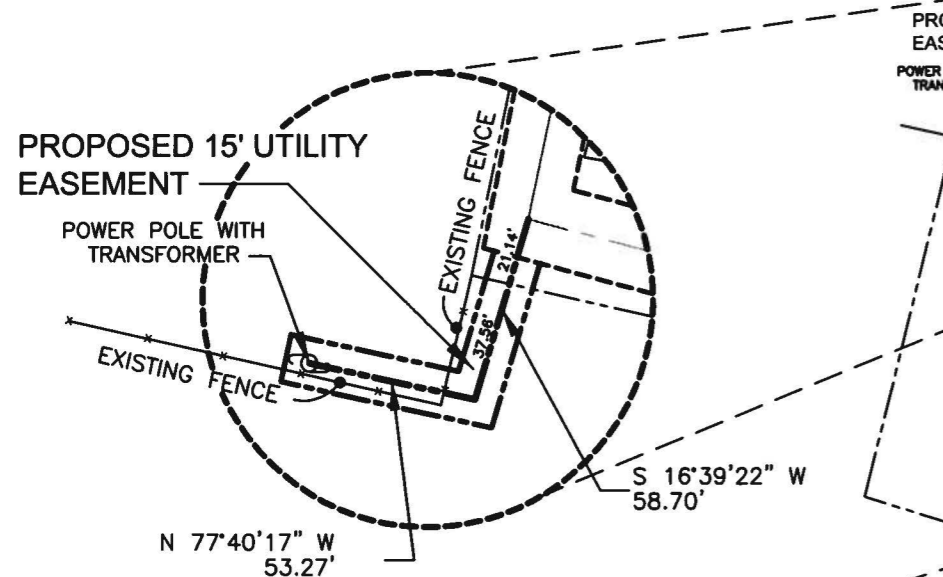
REV.	REVISION:	DATE:
1.	PER REVIEW	5.30.19

LAND SURVEYOR NOTE:
THIS DRAWING REPRESENTS THE CREATION OF A PROPOSED LEASE AREA AND AN ACCESS & UTILITY EASEMENT. NO SURVEY WAS COMPLETED ON THE PARENT PARCEL BY BENCHMARK SERVICES, INC.

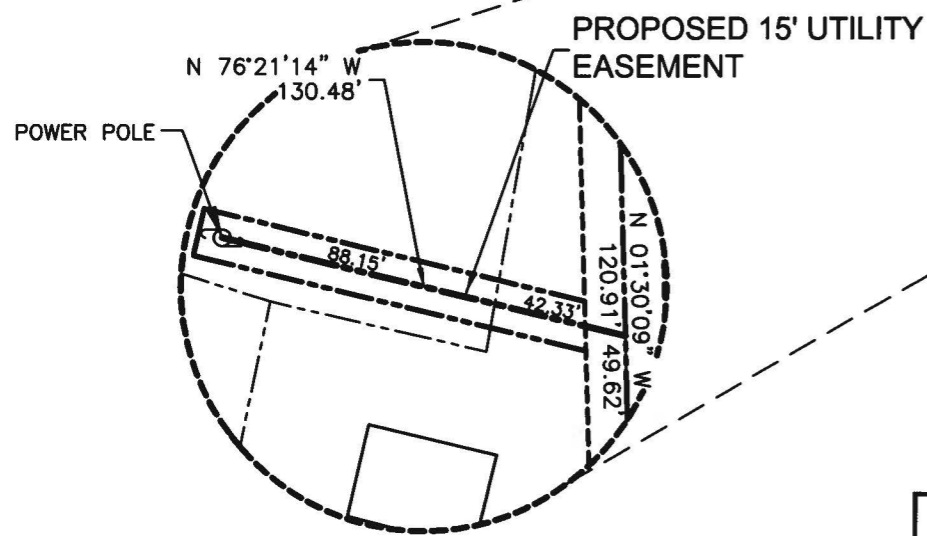
SHEET TITLE:

UTILITY EASEMENTS

SHEET NUMBER:
B-3



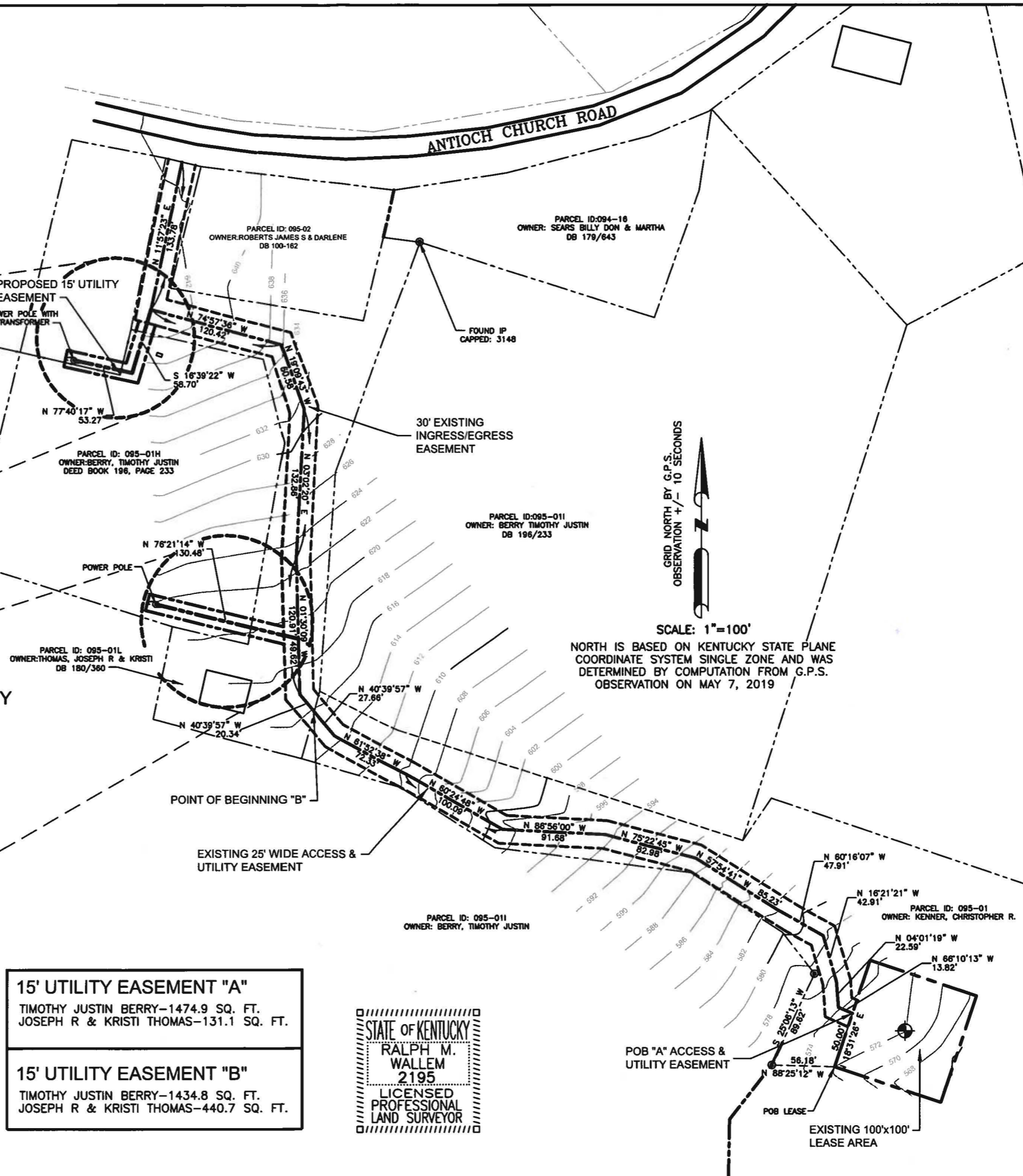
15' UTILITY EASEMENT "A" DETAIL
SCALE: 1"=60'



15' UTILITY EASEMENT "B" DETAIL
SCALE: 1"=60'

15' UTILITY EASEMENT "A" TIMOTHY JUSTIN BERRY-1474.9 SQ. FT. JOSEPH R & KRISTI THOMAS-131.1 SQ. FT.
15' UTILITY EASEMENT "B" TIMOTHY JUSTIN BERRY-1434.8 SQ. FT. JOSEPH R & KRISTI THOMAS-440.7 SQ. FT.

STATE OF KENTUCKY
RALPH M. WALLEM
2195
LICENSED PROFESSIONAL LAND SURVEYOR



SCALE: 1"=100'
NORTH IS BASED ON KENTUCKY STATE PLANE COORDINATE SYSTEM SINGLE ZONE AND WAS DETERMINED BY COMPUTATION FROM G.P.S. OBSERVATION ON MAY 7, 2019

GRID NORTH BY G.P.S.
OBSERVATION +/- 10 SECONDS

PROPOSED UTILITY EASEMENT "A" DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND LYING IN THE COUNTY OF TODD, STATE OF KENTUCKY, CONSISTING OF A 15 FEET WIDE UTILITY EASEMENT COMMENCING AT A FOUND IRON ROD, THAT IS 5,930 FEET SOUTHWESTERLY OF THE INTERSECTION OF ANTIOCH CHURCH ROAD AND EVERETT DUNCAN ROAD, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THENCE SOUTH 25 DEGREES 06 MINUTES 13 SECONDS WEST, A DISTANCE OF 89.62 FEET; THENCE SOUTH 88 DEGREES 25 MINUTES 12 SECONDS EAST, A DISTANCE OF 56.18 FEET; THENCE NORTH 18 DEGREES 31 MINUTES 26 SECONDS EAST, A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING OF A 25 FEET WIDE ACCESS AND UTILITY EASEMENT;

THENCE NORTH 66 DEGREES 10 MINUTES 13 SECONDS WEST, A DISTANCE OF 13.82 FEET;
 THENCE NORTH 04 DEGREES 01 MINUTES 19 SECONDS WEST, A DISTANCE OF 22.59 FEET;
 THENCE NORTH 16 DEGREES 21 MINUTES 21 SECONDS WEST, A DISTANCE OF 42.91 FEET;
 THENCE NORTH 60 DEGREES 16 MINUTES 07 SECONDS WEST, A DISTANCE OF 47.91 FEET;
 THENCE NORTH 57 DEGREES 54 MINUTES 41 SECONDS WEST, A DISTANCE OF 85.23 FEET;
 THENCE NORTH 75 DEGREES 22 MINUTES 45 SECONDS WEST, A DISTANCE OF 82.98 FEET;
 THENCE NORTH 86 DEGREES 56 MINUTES 00 SECONDS WEST, A DISTANCE OF 91.68 FEET;
 THENCE NORTH 60 DEGREES 24 MINUTES 48 SECONDS WEST, A DISTANCE OF 100.09 FEET;
 THENCE NORTH 61 DEGREES 52 MINUTES 38 SECONDS WEST, A DISTANCE OF 72.33 FEET;
 THENCE NORTH 40 DEGREES 39 MINUTES 57 SECONDS WEST, A DISTANCE OF 27.66 FEET;
 THENCE NORTH 40 DEGREES 39 MINUTES 57 SECONDS WEST, A DISTANCE OF 20.34 FEET;
 THENCE NORTH 01 DEGREES 30 MINUTES 09 SECONDS WEST, A DISTANCE OF 120.91 FEET;
 THENCE NORTH 03 DEGREES 02 MINUTES 20 SECONDS EAST, A DISTANCE OF 132.86 FEET;
 THENCE NORTH 19 DEGREES 09 MINUTES 43 SECONDS WEST, A DISTANCE OF 60.58 FEET;
 THENCE NORTH 74 DEGREES 57 MINUTES 36 SECONDS WEST, A DISTANCE OF 120.42 FEET;
 THENCE NORTH 11 DEGREES 57 MINUTES 23 SECONDS EAST, A DISTANCE OF 133.78 FEET TO THE TRUE PLACE OF BEGINNING ON THIS 15 FEET WIDE UTILITY EASEMENT LYING 7.5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE; THENCE SOUTH 16 DEGREES 39 MINUTES 22 SECONDS WEST 58.70 FEET; THENCE NORTH 77 DEGREES 40 MINUTES 17 SECONDS WEST 53.27 FEET TO A POINT 7.5 FEET BEYOND AN EXISTING POWER POLE WITH TRANSFORMER AND TERMINUS.

PROPOSED UTILITY EASEMENT "B" DESCRIPTION

ALL THAT TRACT OR PARCEL OF LAND LYING IN THE COUNTY OF TODD, STATE OF KENTUCKY, CONSISTING OF A 15 FEET WIDE UTILITY EASEMENT COMMENCING AT A FOUND IRON ROD, THAT IS 5,930 FEET SOUTHWESTERLY OF THE INTERSECTION OF ANTIOCH CHURCH ROAD AND EVERETT DUNCAN ROAD, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

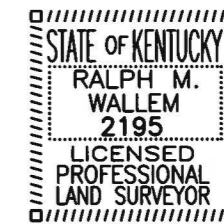
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 THENCE NORTH 86 DEGREES 56 MINUTES 00 SECONDS WEST, A DISTANCE OF 91.68 FEET;
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 THENCE NORTH 40 DEGREES 39 MINUTES 57 SECONDS WEST, A DISTANCE OF 27.66 FEET;
 THENCE NORTH 40 DEGREES 39 MINUTES 57 SECONDS WEST, A DISTANCE OF 20.34 FEET;
 THENCE NORTH 01 DEGREES 30 MINUTES 09 SECONDS WEST 49.62 TO THE TRUE PLACE OF BEGINNING ON THIS 15 FEET WIDE UTILITY EASEMENT LYING 7.5 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE; THENCE NORTH 76 DEGREES 21 MINUTES 14 SECONDS WEST 130.48 FEET TO A POINT 7.5 FEET BEYOND AN EXISTING POWER POLE WITH TRANSFORMER AND TERMINUS.

LAND SURVEYOR'S CERTIFICATE

I, RALPH M. WALLEM, 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 SURVEY ON THE LAND WER PERFORMED BY ME, OR PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS ARE BEING WITNESSED BY MONUMENTS SHOWN HEREON AND 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.

Ralph M. Wallem 5.15.19
 RALPH M. WALLEM, STATE OF KENTUCKY PLS #2195 DATE



PREPARED FOR:

 PREPARED FOR:

BENCHMARK SERVICES, INC.
 Consulting Engineers
 Land Surveyors
 318 North Main Street
 Huntingburg, IN 47542
 (812) 683-3049

SITE INFORMATION:

SITE NUMBER:
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SITE NAME:
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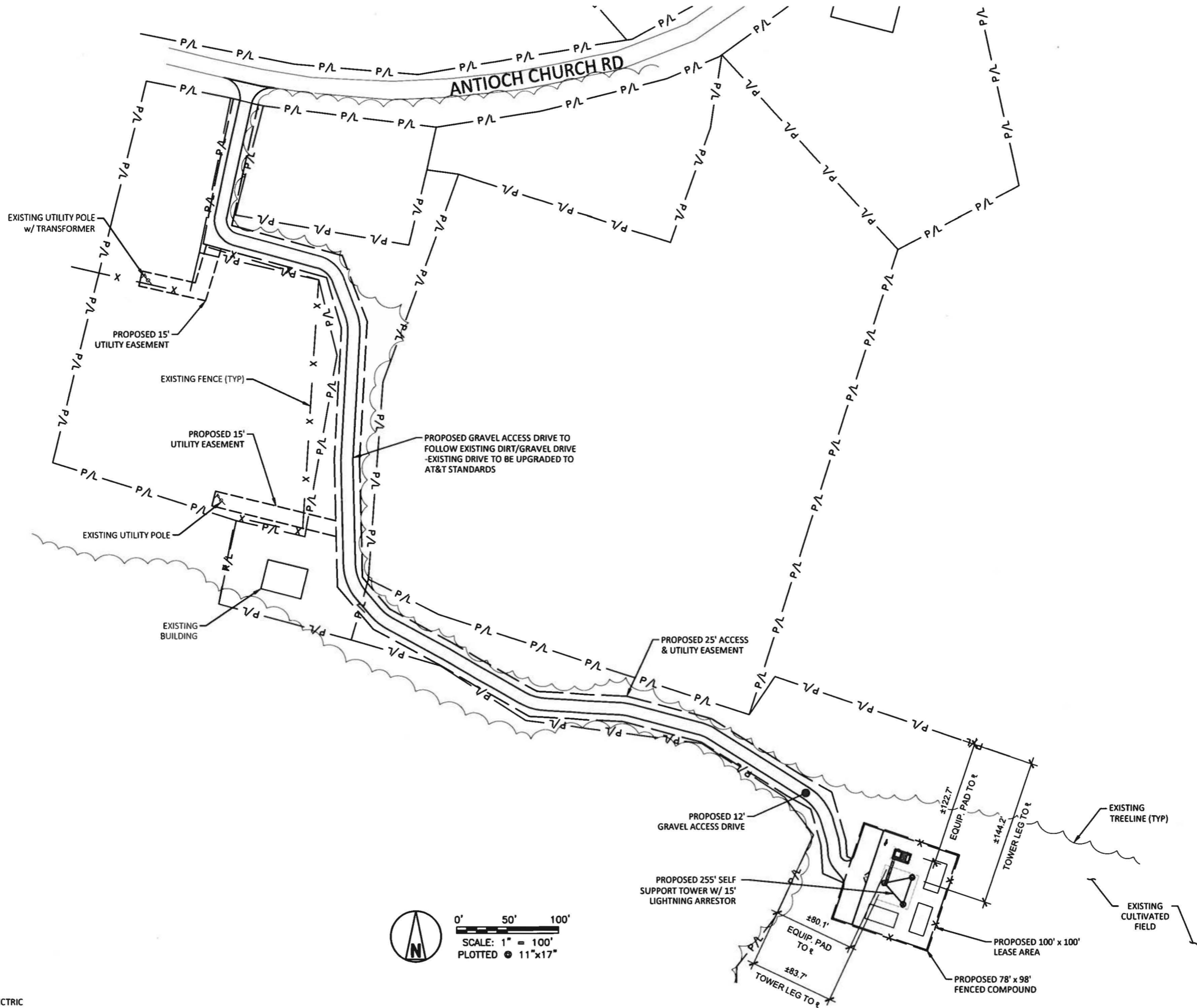
REV.	REVISION:	DATE:
1.	PER REVIEW	5.30.19

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SHEET TITLE:
 UTILITY EASEMENTS

SHEET NUMBER:
 B-4

TO OBTAIN LOCATION OF PARTICIPANTS UNDERGROUND FACILITIES BEFORE YOU DIG IN KENTUCKY, CALL KENTUCKY 811
 TOLL FREE 1-800-752-6007 OR www.kentucky811.org
 KENTUCKY STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE
Know what's below. Call before you dig.

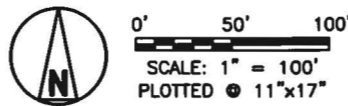


PROPERTY NOTES:

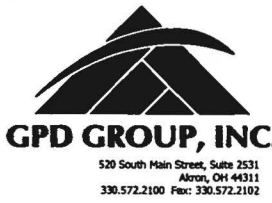
1. THE EXISTING PROPERTY LINES DEPICTED ARE BASED ON EXISTING SURVEY BY BENCHMARK SERVICES, INC., DATED MAY 30, 2019. A SCANNED COPY OF THIS SURVEY HAS BEEN PROVIDED AS A REFERENCE TO THIS PLAN SET. GPD GROUP, INC. DOES NOT WARRANT ANY INFORMATION PERFORMED BY OTHER VENDORS, PRIOR TO THIS PROJECT.

LEGEND

- X — EXISTING FENCE
- — PROPOSED EQUIPMENT
- X — PROPOSED FENCE
- — PROPOSED ICE BRIDGE
- — PROPOSED LEASE AREA
- E — PROPOSED UNDERGROUND ELECTRIC
- T — PROPOSED UNDERGROUND TELCO



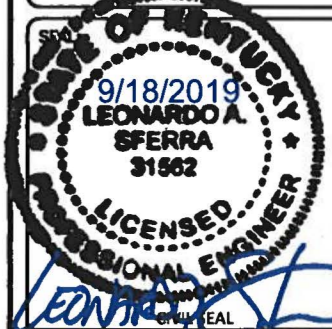
PREPARED BY:



PREPARED FOR:



APPLICANT/OWNER:



IT IS A VIOLATION OF THE SEAL OF ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PROJECT NO: 2019723.14

DRAWN BY: DTC

CHECKED BY: LJB

REV	DATE	DESCRIPTION
A	04/02/19	ISSUED FOR CLIENT REVIEW
B	04/19/19	REVISED PER COMMENTS
C	08/08/19	REVISED PER NEW SURVEY
D	09/12/19	REVISED PER COMMENTS
1	09/18/19	REVISED SURVEY

SITE INFORMATION:
 DUNCAN RIDGE
 185924
 13800711
 ANTIOCH CHURCH RD.
 SHARON GROVE, KY 42280
 TODD COUNTY

SITE NUMBER:
 KYL03681

SHEET TITLE:
 OVERALL SITE LAYOUT

SHEET NUMBER:
 C-1

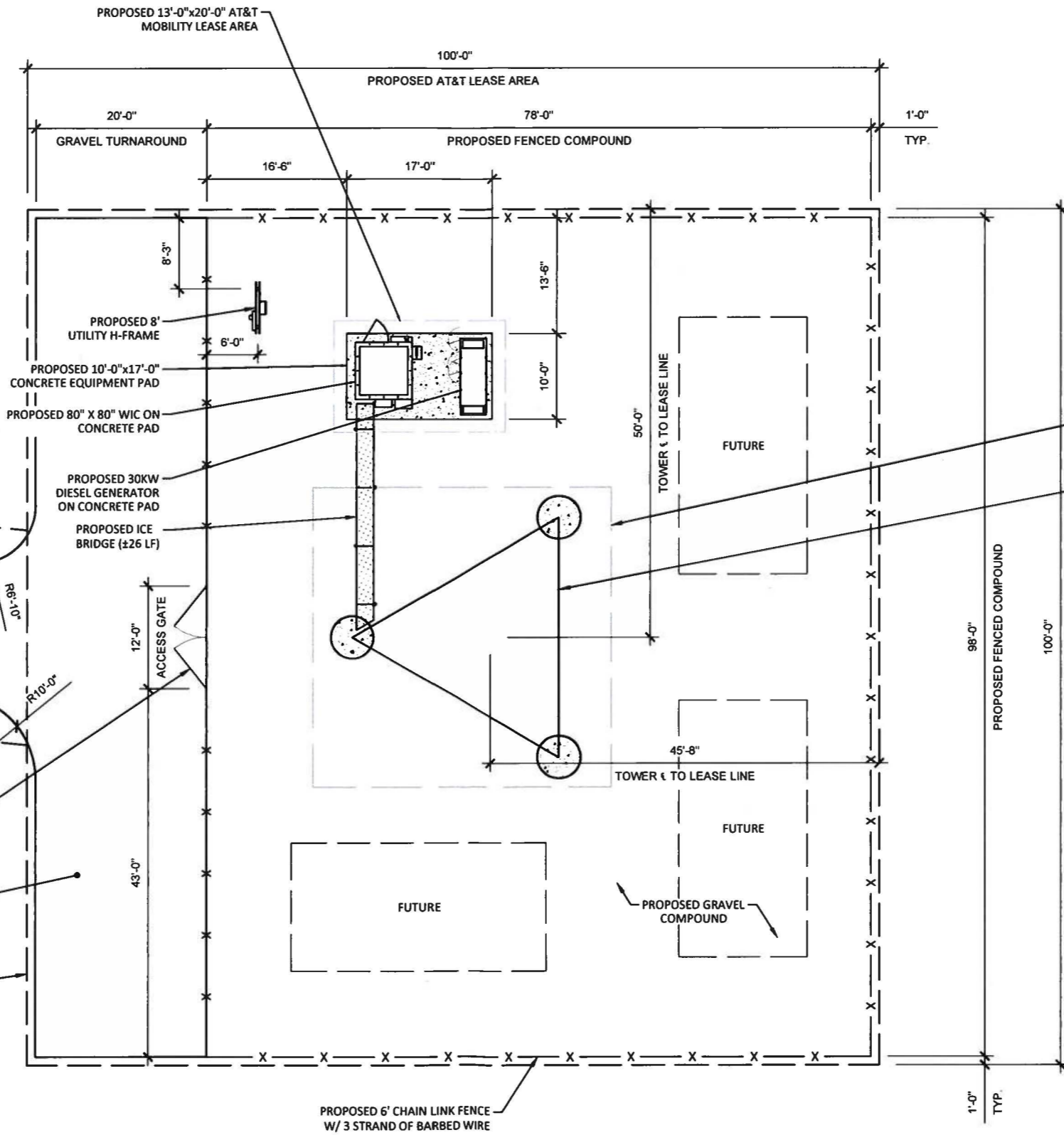


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Know what's below. Call before you dig.

KENTUCKY STATUTE REQUIRES MIN OF 2 WORKING DAYS NOTICE BEFORE YOU EXCAVATE

PROPOSED 12' GRAVEL ACCESS DRIVE
 PROPOSED 25' ACCESS & UTILITY EASEMENT
 PROPOSED 12' SWING GATE
 PROPOSED GRAVEL TURNAROUND
 PROPOSED 100' x 100' LEASE AREA



LEGEND

- EXISTING CONDITION
- X- - - - - EXISTING FENCE
- EXISTING ICE BRIDGE
- EXISTING LEASE AREA
- PROPOSED EQUIPMENT
- X- - - - - PROPOSED FENCE
- PROPOSED ICE BRIDGE
- PROPOSED LEASE AREA
- E- - - - - PROPOSED UNDERGROUND ELECTRIC
- T- - - - - PROPOSED UNDERGROUND TELCO



0' 8' 16'
 SCALE: 1/16" = 1'-0"
 PLOTTED @ 11"x17"

PREPARED BY:



GPD GROUP, INC.
 520 South Main Street, Suite 2531
 Akron, OH 44311
 330.572.2100 Fax: 330.572.2102

PREPARED FOR:

MasTec
 Network Solutions

1975 JOE B JACKSON PARKWAY
 MURFREESBORO, TN 37127

APPLICANT/OWNER:



462 S 4TH ST, SUITE 2400
 LOUISVILLE, KY 40202



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

PROJECT NO: 2019723.14

DRAWN BY: DTC

CHECKED BY: LJB

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SITE INFORMATION:

DUNCAN RIDGE
 185924
 13800711
 ANTOCH CHURCH RD.
 SHARON GROVE, KY 42280
 TODD COUNTY

SITE NUMBER:

KYL03681

SHEET TITLE:

ENLARGED COMPOUND LAYOUT

SHEET NUMBER:

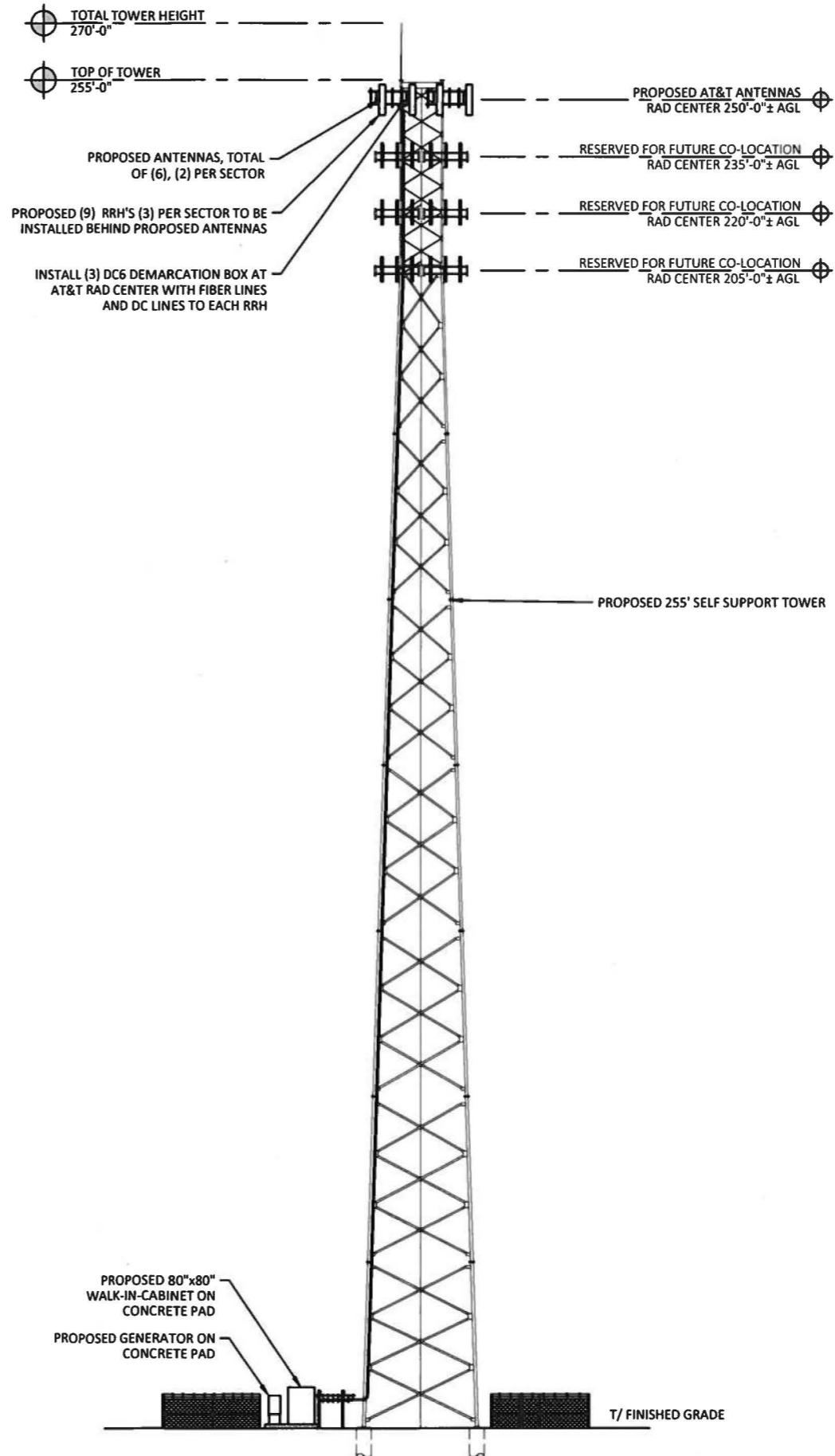
C-2

TOWER NOTES:

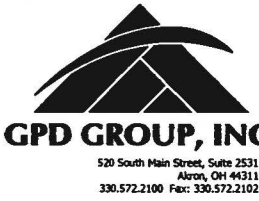
1. THE TOWER ELEVATION SHOWN IS FOR REFERENCE ONLY.
2. CONTRACTOR TO FIELD VERIFY ANTENNA MOUNT CONFIGURATION WITH AT&T. ALL ANTENNAS AND MOUNTING HARDWARE SHALL CONFORM TO DESIGN REQUIREMENTS PER INTERNATIONAL BUILDING CODE (LATEST EDITION) AND EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, BASIC WIND SPEED AS LISTED IN TOWER DRAWINGS.
3. SEE RFDS AND PLUMBING DIAGRAMS PROVIDED BY AT&T FOR ANTENNA, CABLING, AND EQUIPMENT INFORMATION.

GENERAL NOTES:

1. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE AND/OR COUNTY IN WHICH IT IS TO BE PERFORMED.
2. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
4. ALL DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE OWNER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED.
5. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE.



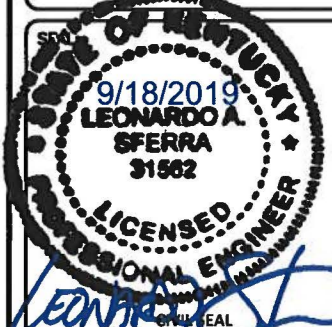
PREPARED BY:



PREPARED FOR:



APPLICANT/OWNER:



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PROJECT NO: 2019723.14

DRAWN BY: DTC

CHECKED BY: LJB

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1	09/18/19	REVISED SURVEY

SITE INFORMATION:
 DUNCAN RIDGE
 185924
 13800711
 ANTIOCH CHURCH RD.
 SHARON GROVE, KY 42280
 TODD COUNTY

SITE NUMBER:
 KYL03681

SHEET TITLE:
 TOWER ELEVATION

SHEET NUMBER:
 C-3

EXHIBIT C
TOWER AND FOUNDATION DESIGN



December 20th, 2018

Kentucky Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, KY 40602-0615

RE: Site Name – Duncan Ridge
Proposed Cell Tower
36 56 42.51 North Latitude, 87 04 14.38 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

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 black ink, appearing to read "Don Murdock".

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



Structural Design Report
255' S3TL Series HD1 Self-Supporting Tower
Site: Duncan Ridge, KY

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

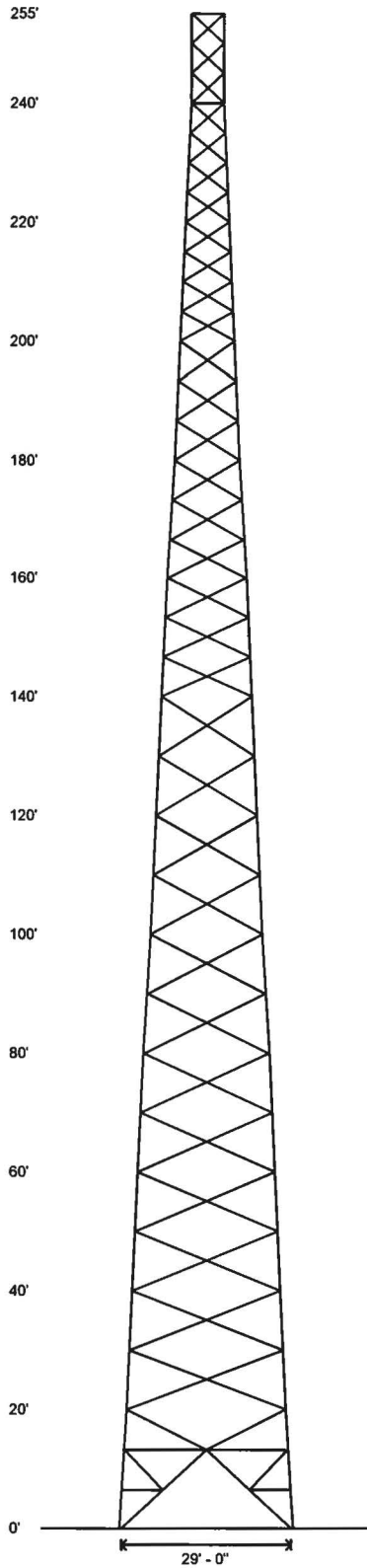
Job Number: 442425

September 9, 2019

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



Legs	8.625 OD X .500		A	5.563 OD X .500	B	C	D	E
Diagonals	L 4 X 4 X 1/4		L 3 X 3 X 5/16	L 3 X 3 X 3/16	L 2 1/2 X 2 1/2 X 3/16	L 2 X 2 X 3/16	L 2 X 2 X 3/16	G
Horizontals	L 3 1/2 X 3 1/2 X 1/4		NONE	L 3 X 3 X 3/16	L 2 1/2 X 2 1/2 X 3/16	L 2 X 2 X 3/16	L 2 X 2 X 3/16	I
Internals	L 3 1/2 X 3 1/2 X 1/4		NONE	L 3 X 3 X 3/16	L 2 1/2 X 2 1/2 X 3/16	L 2 X 2 X 3/16	L 2 X 2 X 3/16	NONE
Sub-Diagonals	L 3 1/2 X 3 1/2 X 1/4		NONE	L 3 X 3 X 3/16	L 2 1/2 X 2 1/2 X 3/16	L 2 X 2 X 3/16	L 2 X 2 X 3/16	G
Sub-Horizontals	L 3 1/2 X 3 1/2 X 1/4		NONE	L 3 X 3 X 3/16	L 2 1/2 X 2 1/2 X 3/16	L 2 X 2 X 3/16	L 2 X 2 X 3/16	
Brace Bolts	(2) 3/4"		(1) 3/4"	(1) 5/8"	(1) 5/8"	(1) 5/8"	(1) 5/8"	
Top Face Width	27'	23'	21'	19'	17'	15'	11'	5'
Panel Count/Height	M	N	12 @ 10'	12 @ 10'	9 @ 6.6667'	7'	11 @ 5'	
Section Weight	6143	5406	5013	4654	4518	3538	2849	1900
								1207
								565



Design Criteria - ANSI/TIA-222-G

ASCE 7-16 Ultimate Wind Speed (No Ice)	106 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Structure Class	II
Risk Category	II
Exposure Category	C
Topographic Category	1

Base Reactions

Total Foundation		Individual Footing	
Shear (kips)	81.04	Shear (kips)	49.64
Axial (kips)	240.91	Compression (kips)	544
Moment (ft-kips)	12871	Uplift (kips)	472
Torsion (ft-kips)	33.57		

Material List

Display	Value
A	8.625 OD X .322
B	5.563 OD X .375
C	4.500 OD X .337
D	3.500 OD X .216
E	2.375 OD X .154
F	L 5 X 3 1/2 X 1/4 (SLV)
G	L 2 X 2 X 1/8
H	L 3 1/2 X 3 1/2 X 1/4
I	L 2 X 2 X 3/16
J	L 3 X 3 X 1/4
K	L 3 X 3 X 3/16
L	L 2 1/2 X 2 1/2 X 3/16
M	1 @ 13.333'
N	1 @ 6.667'

Notes


- 1) All legs are A500 (50 ksi Min. Yield).
- 2) All braces are A572 Grade 50.
- 3) All brace bolts are A325-X.
- 4) The tower model is S3TL Series HD1.
- 5) Transmission lines are to be attached to standard 12 hole waveguide ladders with stackable hangers.
- 6) Azimuths are relative (not based on true north).
- 7) Foundation loads shown are maximums.
- 8) All unequal angles are oriented with the short leg vertical.
- 9) Weights shown are estimates. Final weights may vary.
- 10) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2018 Kentucky Building Code.
- 11) Tower Rating: 99.42%

	Sabre Communications Corporation 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 258-6690 Fax: (712) 279-0514	Job: 442425 Customer: AT&T Site Name: Duncan Ridge, KY Description: 255' S3TL Date: 9/9/2019 By: REB
	<small>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Communications Corporation.</small>	

Designed Appurtenance Loading

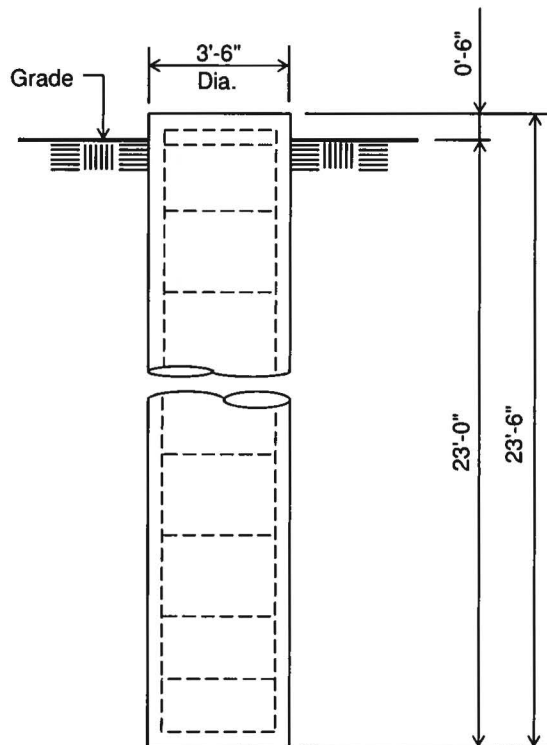
Elev	Description	Tx-Line
260	(1) Extendible Lightning Rod	
250	(1) 278 sq. ft. EPA 6000# (no ice)	(18) 1 5/8"
238	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"

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>Sabre Industries Towers and Poles</p>	<p>Sabre Communications Corporation 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone: (712) 258-6690 Fax: (712) 279-0814</p>	<p>Job: 442425</p>
	<p>Information contained herein is the sole property of Sabre Communications Corporation, constitutes a trade secret as defined by Iowa Code Ch. 550 and shall not be reproduced, copied or used in whole or part for any purpose whatsoever without the prior written consent of Sabre Communications Corporation.</p>	<p>Customer: AT&T</p>
		<p>Site Name: Duncan Ridge, KY</p>
		<p>Description: 255' S3TL</p>
		<p>Date: 9/9/2019 By: REB</p>

Customer: AT&T
Site: Duncan Ridge, KY

255 ft. Model S3TL Series HD1 Self Supporting Tower



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

Notes:

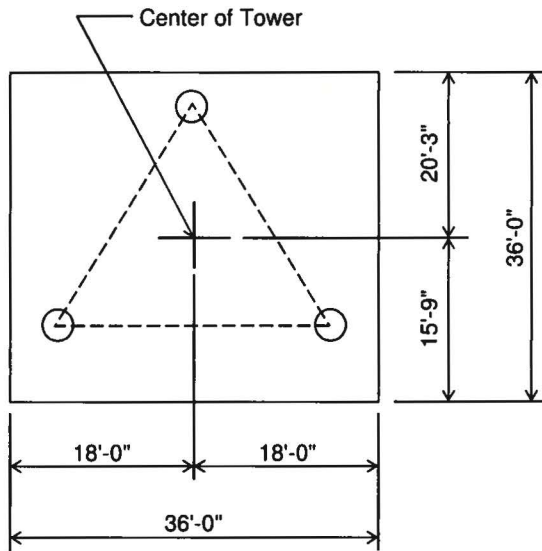
- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-11.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by GPD Group, Inc. project no. 2019723.13800711.01, dated: 8/21/19.
- 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) = 472.00
Factored download (kips) = 544.00
Factored shear (kips) = 50.00
- 8) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.
- 9) Use Type V Portland cement with a maximum water-cement ratio of 0.45.

Rebar Schedule per Pier	
Pier	(14) #10 vertical rebar w/ #4 rebar ties, two (2) within top 5" of pier then 11" C/C
Anchor Bolts per Leg	
	(6) 1.5" dia. x 78" F1554-105 on a 13.25" B.C. w/ 9.5" max. projection above concrete.

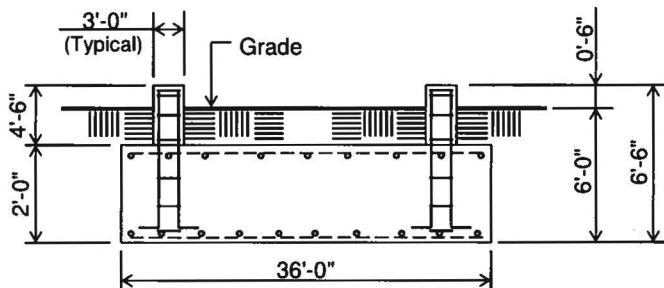
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Customer: AT&T
Site: Duncan Ridge, KY

255 ft. Model S3TL Series HD1 Self Supporting Tower



PLAN VIEW



ELEVATION VIEW

(99.5 cu. yds.)
(1 REQD.; NOT TO SCALE)

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

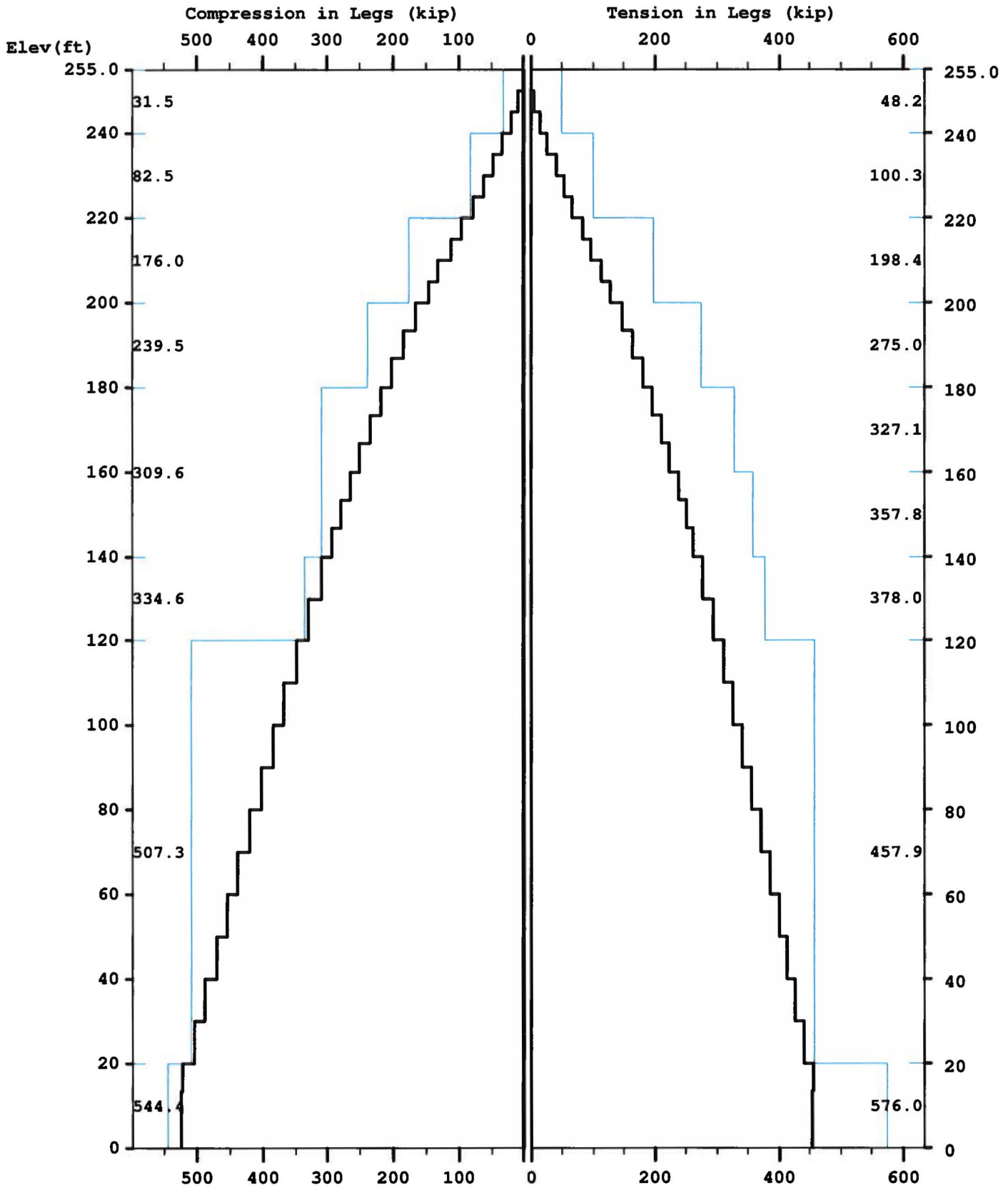
Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-11.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by GPD Group, Inc. project no. 2019723.13800711.01, dated: 8/21/19.
- 6) See the geotechnical report for compaction requirements, if specified.
- 7) The foundation is based on the following factored loads:
Factored download (kips) = 95.19
Factored overturn (kip-ft) = 12,871.21
Factored shear (kips) = 81.04
- 8) 4' of soil cover is required over the entire area of the foundation slab.
- 9) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.
- 10) Use Type V Portland cement with a maximum water-cement ratio of 0.45.

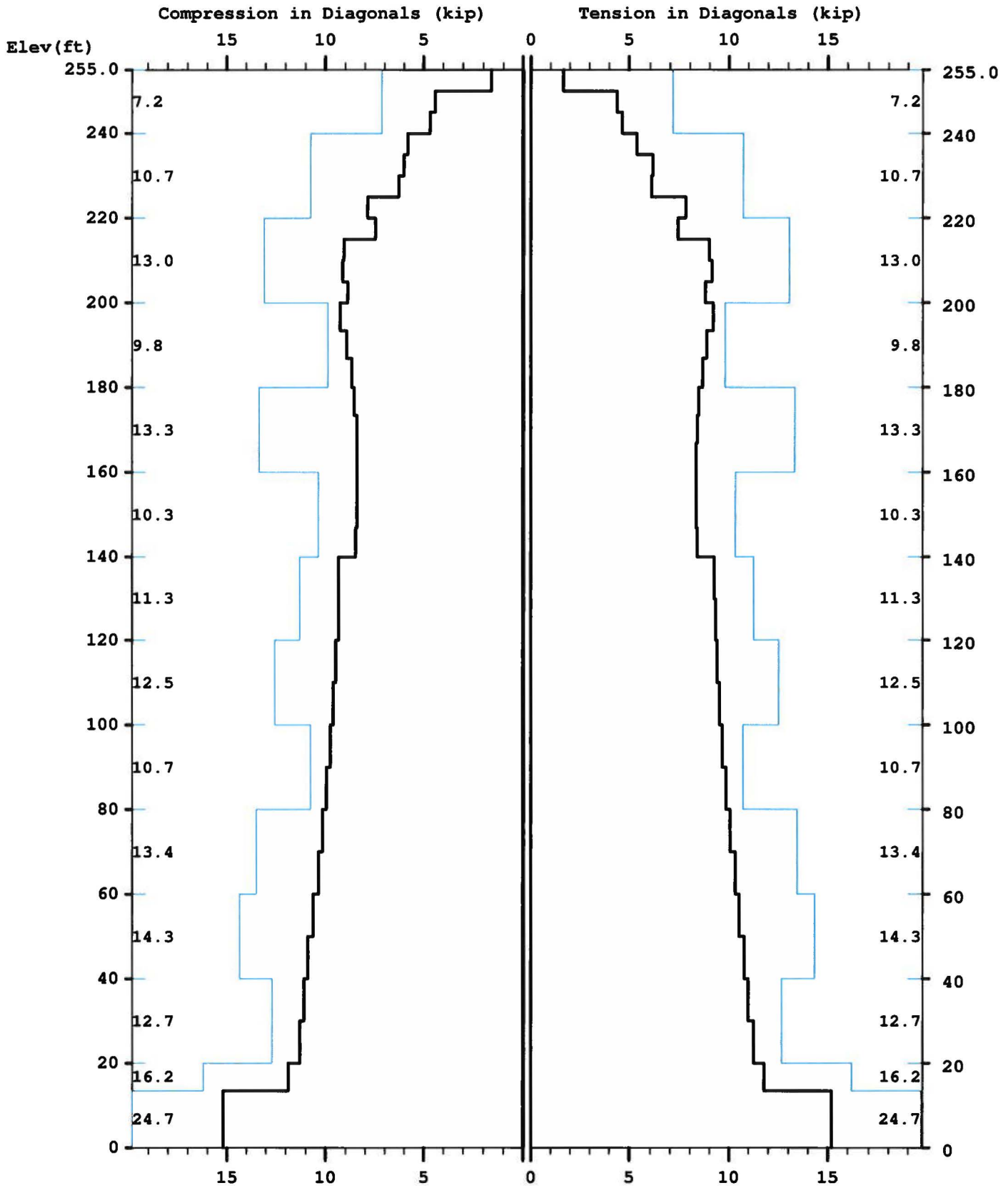
Rebar Schedule per Mat and per Pier	
Pier	(16) #9 vertical rebar w/ hooks at bottom w/ #4 rebar ties, two (2) within top 5" of pier then 12" C/C
Mat	(57) #9 horizontal rebar evenly spaced each way top and bottom. (228 total)
Anchor Bolts per Leg	
(6) 1.5" dia. x 78" F1554-105 on a 13.25" B.C. w/ 9.5" max. projection above concrete.	

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Maximum

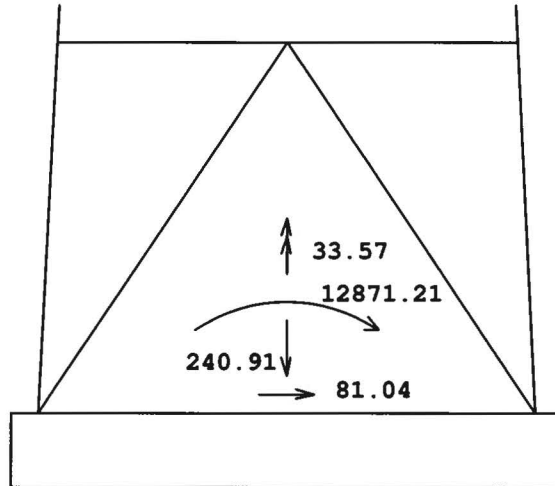


Maximum

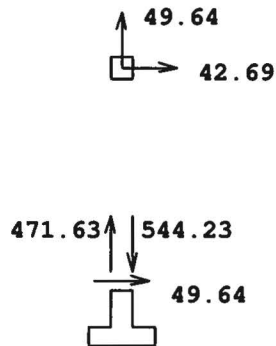


Maximum

TOTAL FOUNDATION LOADS (kip, ft-kip)



INDIVIDUAL FOOTING LOADS (kip)



442425

Latticed Tower Analysis (Unguyed)
 Processed under license at:

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

Sabre Towers and Poles

on: 9 sep 2019 at: 8:29:57

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	2.228	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	140.00	180.00	7.952	0.787	29000.	0.0000117
LE	120.00	140.00	8.399	0.787	29000.	0.0000117
LE	0.00	120.00	12.763	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	180.00	220.00	0.902	0.626	29000.	0.0000117
DI	140.00	180.00	1.090	0.626	29000.	0.0000117
DI	120.00	140.00	1.777	0.626	29000.	0.0000117
DI	80.00	120.00	1.688	0.626	29000.	0.0000117
DI	13.33	80.00	1.938	0.626	29000.	0.0000117
DI	0.00	13.33	2.062	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	1.688	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	82.52	100.35	10.74	10.74	8.46	8.46	0.00	0.00
220.0	235.0	82.52	100.35	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	9.84	9.84	0.00	0.00	0.00	0.00
160.0	180.0	309.64	327.10	13.34	13.34	0.00	0.00	0.00	0.00
140.0	160.0	309.64	357.75	10.34	10.34	0.00	0.00	0.00	0.00
120.0	140.0	334.65	378.00	11.28	11.28	0.00	0.00	0.00	0.00
100.0	120.0	507.33	457.90	12.53	12.53	0.00	0.00	0.00	0.00
80.0	100.0	507.33	457.90	10.73	10.73	0.00	0.00	0.00	0.00

60.0	80.0	507.33	457.90	13.43	13.43	442425	0.00	0.00	0.00	0.00
40.0	60.0	507.33	457.90	14.31	14.31	0.00	0.00	0.00	0.00	0.00
20.0	40.0	507.33	457.90	12.68	12.68	0.00	0.00	0.00	0.00	0.00
13.3	20.0	544.40	576.00	16.16	16.16	0.00	0.00	0.00	0.00	0.00
0.0	13.3	544.40	576.00	24.72	24.72	11.36	11.36	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

106 mph Ultimate wind with no ice. Wind Azimuth: 0

MAST LOADING

=====

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	LOAD..AT AZI	LOAD AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	260.0	0.00	0.0	0.0	0.24	0.15	0.00	0.00
C	250.0	0.00	0.0	0.0	8.49	7.20	0.00	0.00
C	238.0	0.00	0.0	0.0	6.29	4.80	0.00	0.00
C	226.0	0.00	0.0	0.0	6.22	4.80	0.00	0.00
C	214.0	0.00	0.0	0.0	6.15	4.80	0.00	0.00
D	255.0	0.00	180.0	0.0	0.06	0.04	0.00	0.00
D	250.0	0.00	180.0	0.0	0.06	0.04	0.00	0.00
D	250.0	0.00	42.0	0.0	0.11	0.06	0.06	0.08
D	240.0	0.00	42.0	0.0	0.11	0.06	0.06	0.08
D	240.0	0.00	64.4	0.0	0.14	0.11	0.06	0.09
D	235.0	0.00	64.4	0.0	0.14	0.11	0.06	0.09
D	235.0	0.00	79.5	0.0	0.14	0.11	0.06	0.10
D	230.0	0.00	79.5	0.0	0.14	0.11	0.06	0.10
D	230.0	0.00	83.3	0.0	0.15	0.12	0.05	0.08
D	225.0	0.00	83.3	0.0	0.15	0.12	0.05	0.08
D	225.0	0.00	92.0	0.0	0.17	0.14	0.04	0.05
D	220.0	0.00	92.0	0.0	0.17	0.14	0.04	0.05
D	220.0	0.00	89.2	0.0	0.19	0.18	0.05	0.05
D	215.0	0.00	89.2	0.0	0.19	0.18	0.05	0.05
D	215.0	0.00	353.1	0.0	0.19	0.20	0.01	0.04
D	210.0	0.00	353.1	0.0	0.19	0.20	0.01	0.04
D	210.0	0.00	322.3	0.0	0.20	0.20	0.02	0.03
D	200.0	0.00	322.2	0.0	0.20	0.21	0.02	0.03
D	200.0	0.00	322.4	0.0	0.20	0.22	0.02	0.03
D	180.0	0.00	321.9	0.0	0.20	0.22	0.02	0.03
D	180.0	0.00	322.4	0.0	0.21	0.26	0.02	0.03
D	160.0	0.00	321.9	0.0	0.21	0.26	0.02	0.03
D	160.0	0.00	322.4	0.0	0.21	0.26	0.02	0.03
D	140.0	0.00	322.0	0.0	0.22	0.27	0.02	0.03
D	140.0	0.00	322.4	0.0	0.20	0.29	0.02	0.03
D	120.0	0.00	322.2	0.0	0.21	0.29	0.02	0.03
D	120.0	0.00	322.4	0.0	0.21	0.34	0.02	0.03
D	60.0	0.00	322.3	0.0	0.22	0.38	0.02	0.03
D	60.0	0.00	322.4	0.0	0.21	0.38	0.02	0.03
D	40.0	0.00	322.3	0.0	0.21	0.39	0.02	0.03
D	40.0	0.00	322.4	0.0	0.20	0.39	0.02	0.02
D	20.0	0.00	322.3	0.0	0.20	0.40	0.02	0.03
D	20.0	0.00	322.4	0.0	0.16	0.37	0.02	0.02
D	13.3	0.00	322.4	0.0	0.16	0.37	0.02	0.02
D	13.3	0.00	322.4	0.0	0.19	0.45	0.02	0.02
D	0.0	0.00	322.4	0.0	0.19	0.45	0.02	0.02

LOADING CONDITION M

106 mph Ultimate wind with no ice. Wind Azimuth: 0

MAST LOADING

=====

LOAD	ELEV	APPLY..LOAD..AT	LOADFORCES.....MOMENTS.....
------	------	-----------------	------	------------------	-------------------

TYPE	ft	RADIUS ft	AZI	AZI	442425			
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	260.0	0.00	0.0	0.0	0.24	0.12	0.00	0.00
C	250.0	0.00	0.0	0.0	8.49	5.40	0.00	0.00
C	238.0	0.00	0.0	0.0	6.29	3.60	0.00	0.00
C	226.0	0.00	0.0	0.0	6.22	3.60	0.00	0.00
C	214.0	0.00	0.0	0.0	6.15	3.60	0.00	0.00
D	255.0	0.00	180.0	0.0	0.06	0.03	0.00	0.00
D	250.0	0.00	180.0	0.0	0.06	0.03	0.00	0.00
D	250.0	0.00	42.0	0.0	0.11	0.04	0.04	0.08
D	240.0	0.00	42.0	0.0	0.11	0.04	0.04	0.08
D	240.0	0.00	64.4	0.0	0.14	0.08	0.04	0.09
D	235.0	0.00	64.4	0.0	0.14	0.08	0.04	0.09
D	235.0	0.00	79.5	0.0	0.14	0.08	0.04	0.10
D	230.0	0.00	79.5	0.0	0.14	0.08	0.04	0.10
D	230.0	0.00	83.3	0.0	0.15	0.09	0.04	0.08
D	225.0	0.00	83.3	0.0	0.15	0.09	0.04	0.08
D	225.0	0.00	92.0	0.0	0.17	0.11	0.03	0.05
D	220.0	0.00	92.0	0.0	0.17	0.11	0.03	0.05
D	220.0	0.00	89.2	0.0	0.19	0.13	0.04	0.05
D	215.0	0.00	89.2	0.0	0.19	0.13	0.04	0.05
D	215.0	0.00	351.6	0.0	0.19	0.15	0.01	0.04
D	200.0	0.00	316.7	0.0	0.20	0.15	0.02	0.03
D	200.0	0.00	322.4	0.0	0.20	0.16	0.02	0.03
D	180.0	0.00	321.9	0.0	0.20	0.17	0.02	0.03
D	180.0	0.00	322.4	0.0	0.21	0.19	0.02	0.03
D	160.0	0.00	321.9	0.0	0.21	0.20	0.02	0.03
D	160.0	0.00	322.4	0.0	0.21	0.20	0.02	0.03
D	140.0	0.00	322.0	0.0	0.22	0.20	0.02	0.03
D	140.0	0.00	322.4	0.0	0.20	0.22	0.02	0.03
D	120.0	0.00	322.2	0.0	0.21	0.22	0.02	0.03
D	120.0	0.00	322.4	0.0	0.21	0.26	0.02	0.03
D	60.0	0.00	322.3	0.0	0.22	0.28	0.02	0.03
D	60.0	0.00	322.4	0.0	0.21	0.29	0.02	0.03
D	40.0	0.00	322.3	0.0	0.21	0.29	0.02	0.03
D	40.0	0.00	322.4	0.0	0.20	0.29	0.02	0.02
D	20.0	0.00	322.3	0.0	0.20	0.30	0.02	0.03
D	20.0	0.00	322.4	0.0	0.16	0.28	0.02	0.02
D	13.3	0.00	322.4	0.0	0.16	0.28	0.02	0.02
D	13.3	0.00	322.4	0.0	0.19	0.33	0.02	0.02
D	0.0	0.00	322.4	0.0	0.19	0.33	0.02	0.02

=====

LOADING CONDITION Y =====

30 mph wind with 1.5 ice. Wind Azimuth: 0◀

MAST LOADING

=====

LOAD TYPE	ELEV ft	APPLY.. RADIUS ft	LOAD.. AZI	..AT AZIFORCES.....	MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	260.0	0.00	0.0	0.0	0.05	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	0.38	0.20	0.01
D	235.0	0.00	69.8	0.0	0.02	0.38	0.20	0.01
D	235.0	0.00	89.5	0.0	0.02	0.38	0.21	0.01
D	230.0	0.00	89.5	0.0	0.02	0.38	0.21	0.01
D	230.0	0.00	91.0	0.0	0.02	0.41	0.18	0.01
D	225.0	0.00	91.0	0.0	0.02	0.41	0.18	0.01
D	225.0	0.00	86.8	0.0	0.02	0.49	0.12	0.00
D	220.0	0.00	86.8	0.0	0.02	0.49	0.12	0.00
D	220.0	0.00	84.3	0.0	0.02	0.55	0.13	0.00
D	215.0	0.00	84.3	0.0	0.02	0.55	0.13	0.00
D	215.0	0.00	345.5	0.0	0.02	0.61	0.05	0.00
D	210.0	0.00	345.5	0.0	0.02	0.61	0.05	0.00

					442425			
D	210.0	0.00	322.4	0.0	0.02	0.63	0.08	0.00
D	180.0	0.00	321.9	0.0	0.02	0.65	0.08	0.00
D	180.0	0.00	322.4	0.0	0.02	0.70	0.08	0.00
D	160.0	0.00	321.9	0.0	0.02	0.72	0.08	0.00
D	160.0	0.00	322.4	0.0	0.02	0.72	0.08	0.00
D	140.0	0.00	322.0	0.0	0.02	0.74	0.08	0.00
D	140.0	0.00	322.4	0.0	0.02	0.73	0.08	0.00
D	120.0	0.00	322.2	0.0	0.02	0.74	0.08	0.00
D	120.0	0.00	322.3	0.0	0.02	0.80	0.08	0.00
D	70.0	0.00	322.3	0.0	0.02	0.86	0.07	0.00
D	70.0	0.00	322.3	0.0	0.02	0.88	0.07	0.00
D	20.0	0.00	322.4	0.0	0.02	0.89	0.07	0.00
D	20.0	0.00	322.4	0.0	0.02	0.83	0.08	0.00
D	13.3	0.00	322.4	0.0	0.02	0.83	0.08	0.00
D	13.3	0.00	322.4	0.0	0.02	1.12	0.10	0.00
D	0.0	0.00	322.4	0.0	0.02	1.12	0.10	0.00

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MAXIMUM TENSION IN MAST MEMBERS (kip)

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ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	-----	-----	1.02 A	0.00 A
	0.71 S	1.63 G		
250.0	-----	-----	0.16 G	0.00 A
	3.82 M	4.40 H		
245.0	-----	-----	0.23 I	0.00 A
	15.33 M	4.63 N		
240.0	-----	-----	0.33 C	0.00 A
	25.83 M	5.38 M		
235.0	-----	-----	0.20 A	0.00 A
	39.42 M	6.17 B		
230.0	-----	-----	0.09 A	0.00 A
	52.30 M	6.12 T		
225.0	-----	-----	0.11 A	0.00 A
	66.05 M	7.85 B		
220.0	-----	-----	0.19 A	0.00 A
	82.08 M	7.43 T		
215.0	-----	-----	0.04 a	0.00 A
	95.98 M	8.99 N		
210.0	-----	-----	0.20 A	0.00 A
	113.62 M	9.14 H		
205.0	-----	-----	0.03 A	0.00 A
	128.68 M	8.80 N		
200.0	-----	-----	0.18 A	0.00 A
	146.35 M	9.24 T		
193.3	-----	-----	0.05 A	0.00 A
	163.67 M	8.89 N		
186.7	-----	-----	0.15 A	0.00 A
	180.83 M	8.65 X		
180.0	-----	-----	0.06 A	0.00 A
	195.93 M	8.49 R		
173.3	-----	-----	0.10 A	0.00 A
	210.88 M	8.41 R		
166.7	-----	-----	0.06 A	0.00 A
	224.47 M	8.36 R		
160.0	-----	-----	0.09 A	0.00 A
	237.97 M	8.35 R		
153.3	-----	-----	0.13 A	0.00 A
	250.47 M	8.37 P		
146.7	-----	-----	0.08 A	0.00 A
	262.98 M	8.44 V		
140.0	-----	-----	0.08 A	0.00 A
	277.39 M	9.28 P		
130.0	-----	-----	0.14 A	0.00 A
	294.64 M	9.33 V		
120.0	-----	-----	0.07 A	0.00 A
	310.75 M	9.41 P		
110.0	-----	-----	0.08 A	0.00 A
	326.58 M	9.55 V		
100.0	-----	-----	0.07 A	0.00 A
	341.68 M	9.70 P		
90.0	-----	-----	0.07 A	0.00 A
	356.65 M	9.89 V		
80.0	-----	-----	0.06 A	0.00 A
	371.08 M	10.09 P		
70.0	-----	-----	0.07 A	0.00 A
	385.42 M	10.32 V		

60.0	-----			0.06 A	442425	0.00 A
	399.35 M	10.56 V				
50.0	-----			0.06 A		0.00 A
	413.20 M	10.80 P				
40.0	-----			0.04 O		0.00 A
	426.74 M	11.03 P				
30.0	-----			0.08 S		0.00 A
	440.13 M	11.25 P				
20.0	-----			0.15 A		0.00 A
	455.70 M	11.78 V				
13.3	-----			0.68 U		0.00 F
	454.65 M	15.17 V				
0.0	-----			0.00 A		0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	-----		-1.03 G	0.00 A
	-0.88 A	-1.61 A		
250.0	-----		-0.16 M	0.00 A
	-8.34 G	-4.42 B		
245.0	-----		-0.15 O	0.00 A
	-20.06 G	-4.72 H		
240.0	-----		-0.23 U	0.00 A
	-32.26 G	-5.80 G		
235.0	-----		-0.13 S	0.00 A
	-48.15 G	-6.02 T		
230.0	-----		-0.08 S	0.00 A
	-61.65 G	-6.30 H		
225.0	-----		-0.06 S	0.00 A
	-78.43 G	-7.86 H		
220.0	-----		-0.16 S	0.00 A
	-95.06 G	-7.47 B		
215.0	-----		0.00 U	0.00 A
	-111.90 G	-9.10 G		
210.0	-----		-0.17 S	0.00 A
	-131.00 G	-9.13 N		
205.0	-----		-0.01 S	0.00 A
	-146.83 G	-8.85 H		
200.0	-----		-0.16 S	0.00 A
	-165.54 G	-9.25 H		
193.3	-----		-0.04 S	0.00 A
	-184.02 G	-8.93 B		
186.7	-----		-0.13 S	0.00 A
	-202.41 G	-8.67 F		
180.0	-----		-0.05 S	0.00 A
	-218.80 G	-8.53 L		
173.3	-----		-0.09 S	0.00 A
	-235.14 G	-8.43 F		
166.7	-----		-0.05 S	0.00 A
	-250.14 G	-8.39 F		
160.0	-----		-0.08 S	0.00 A
	-265.09 G	-8.38 F		
153.3	-----		-0.11 S	0.00 A
	-279.04 G	-8.41 J		
146.7	-----		-0.07 S	0.00 A
	-293.08 G	-8.45 J		
140.0	-----		-0.07 S	0.00 A
	-309.39 G	-9.34 J		
130.0	-----		-0.12 S	0.00 A
	-329.10 G	-9.36 D		
120.0	-----		-0.06 S	0.00 A
	-347.78 G	-9.46 J		
110.0	-----		-0.07 S	0.00 A
	-366.41 G	-9.59 D		
100.0	-----		-0.06 S	0.00 A
	-384.35 G	-9.75 J		
90.0	-----		-0.06 S	0.00 A
	-402.22 G	-9.93 D		
80.0	-----		-0.05 S	0.00 A
	-419.60 G	-10.14 J		
70.0	-----		-0.06 S	0.00 A

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60.0	-436.97 G	-10.37 D	-0.05 S	0.00 A
50.0	-453.98 G	-10.61 J	-0.05 S	0.00 A
40.0	-470.99 G	-10.84 D	-0.04 I	0.00 A
30.0	-487.73 G	-11.06 J	-0.09 A	0.00 A
20.0	-504.37 G	-11.28 J	-0.12 S	0.00 A
13.3	-522.88 G	-11.85 J	-0.83 C	0.00 W
0.0	-524.28 G	-15.21 J	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	0.88	31.48	0.03	0.71	48.15	0.01
250.00	8.34	31.48	0.27	3.82	48.15	0.08
245.00	20.06	31.48	0.64	15.33	48.15	0.32
240.00	32.26	82.52	0.39	25.83	100.35	0.26
235.00	48.15	82.52	0.58	39.42	100.35	0.39
230.00	61.65	82.52	0.75	52.30	100.35	0.52
225.00	78.43	82.52	0.95	66.05	100.35	0.66
220.00	95.06	175.98	0.54	82.08	198.45	0.41
215.00	111.90	175.98	0.64	95.98	198.45	0.48
210.00	131.00	175.98	0.74	113.62	198.45	0.57
205.00	146.83	175.98	0.83	128.68	198.45	0.65
200.00	165.54	239.46	0.69	146.35	274.95	0.53
193.33	184.02	239.46	0.77	163.67	274.95	0.60
186.67	202.41	239.46	0.85	180.83	274.95	0.66
180.00	218.80	309.64	0.71	195.93	327.10	0.60
173.33	235.14	309.64	0.76	210.88	327.10	0.64
166.67	250.14	309.64	0.81	224.47	327.10	0.69
160.00	265.09	309.64	0.86	237.97	357.75	0.67
153.33	279.04	309.64	0.90	250.47	357.75	0.70
146.67	293.08	309.64	0.95	262.98	357.75	0.74
140.00	309.39	334.65	0.92	277.39	378.00	0.73
130.00	329.10	334.65	0.98	294.64	378.00	0.78
120.00	347.78	507.33	0.69	310.75	457.90	0.68
110.00	366.41	507.33	0.72	326.58	457.90	0.71
100.00	384.35	507.33	0.76	341.68	457.90	0.75
90.00	402.22	507.33	0.79	356.65	457.90	0.78
80.00	419.60	507.33	0.83	371.08	457.90	0.81
70.00	436.97	507.33	0.86	385.42	457.90	0.84

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60.00	453.98	507.33	0.89	399.35	457.90	0.87
50.00	470.99	507.33	0.93	413.20	457.90	0.90
40.00	487.73	507.33	0.96	426.74	457.90	0.93
30.00	504.37	507.33	0.99	440.13	457.90	0.96
20.00	522.88	544.40	0.96	455.70	576.00	0.79
13.33	524.28	544.40	0.96	454.65	576.00	0.79
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	1.61	7.16	0.23	1.63	7.16	0.23
250.00	4.42	7.16	0.62	4.40	7.16	0.61
245.00	4.72	7.16	0.66	4.63	7.16	0.65
240.00	5.80	10.74	0.54	5.38	10.74	0.50
235.00	6.02	10.74	0.56	6.17	10.74	0.57
230.00	6.30	10.74	0.59	6.12	10.74	0.57
225.00	7.86	10.74	0.73	7.85	10.74	0.73
220.00	7.47	13.03	0.57	7.43	13.03	0.57
215.00	9.10	13.03	0.70	8.99	13.03	0.69
210.00	9.13	13.03	0.70	9.14	13.03	0.70
205.00	8.85	13.03	0.68	8.80	13.03	0.68
200.00	9.25	9.84	0.94	9.24	9.84	0.94
193.33	8.93	9.84	0.91	8.89	9.84	0.90
186.67	8.67	9.84	0.88	8.65	9.84	0.88
180.00	8.53	13.34	0.64	8.49	13.34	0.64
173.33	8.43	13.34	0.63	8.41	13.34	0.63
166.67	8.39	13.34	0.63	8.36	13.34	0.63
160.00	8.38	10.34	0.81	8.35	10.34	0.81
153.33	8.41	10.34	0.81	8.37	10.34	0.81
146.67	8.45	10.34	0.82	8.44	10.34	0.82
140.00	9.34	11.28	0.83	9.28	11.28	0.82
130.00	9.36	11.28	0.83	9.33	11.28	0.83
120.00	9.46	12.53	0.76	9.41	12.53	0.75
110.00	9.59	12.53	0.77	9.55	12.53	0.76
100.00	9.75	10.73	0.91	9.70	10.73	0.90
90.00	9.93	10.73	0.93	9.89	10.73	0.92
80.00	10.14	13.43	0.75	10.09	13.43	0.75
70.00	10.37	13.43	0.77	10.32	13.43	0.77
60.00	10.61	14.31	0.74	10.56	14.31	0.74

	10.84	14.31	0.76	10.80	14.31	0.75
50.00	11.06	12.68	0.87	11.03	12.68	0.87
40.00	11.28	12.68	0.89	11.25	12.68	0.89
30.00	11.85	16.16	0.73	11.78	16.16	0.73
20.00	15.21	24.72	0.62	15.17	24.72	0.61
13.33						
0.00						

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MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

LOAD--COMPONENTS				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
49.64 G	42.69 K	544.23 G	-471.63 M	49.64 G

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

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL @ 0.0		NORTH	EAST	TOTAL @ 0.0	
81.0 S	77.2 J	81.0 S	240.9 c	12871.2 G	12340.3 J	12871.2 G	33.6 T

Latticed Tower Analysis (Unguyed)
 Processed under license at:

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

Sabre Towers and Poles

on: 9 sep 2019 at: 8:30:36

 ***** 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	0.08	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
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	0.09	0.05	0.03

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D	235.0	0.00	64.4	0.0	0.05	0.09	0.05	0.03
D	235.0	0.00	79.5	0.0	0.05	0.09	0.05	0.03
D	225.0	0.00	83.3	0.0	0.05	0.10	0.04	0.03
D	225.0	0.00	92.0	0.0	0.06	0.12	0.04	0.02
D	220.0	0.00	92.0	0.0	0.06	0.12	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	0.18	0.02	0.01
D	180.0	0.00	321.9	0.0	0.07	0.19	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	0.07	0.22	0.02	0.01
D	140.0	0.00	322.4	0.0	0.07	0.24	0.02	0.01
D	120.0	0.00	322.2	0.0	0.07	0.24	0.02	0.01
D	120.0	0.00	322.4	0.0	0.07	0.29	0.02	0.01
D	60.0	0.00	322.3	0.0	0.08	0.31	0.02	0.01
D	60.0	0.00	322.4	0.0	0.07	0.32	0.02	0.01
D	20.0	0.00	322.3	0.0	0.07	0.33	0.02	0.01
D	20.0	0.00	322.4	0.0	0.06	0.31	0.02	0.01
D	13.3	0.00	322.4	0.0	0.06	0.31	0.02	0.01
D	13.3	0.00	322.4	0.0	0.07	0.37	0.02	0.01
D	0.0	0.00	322.4	0.0	0.07	0.37	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	1.150 G	1.106 J	0.017 G	0.584 G	0.562 J	-0.030 F
250.0	1.100 G	1.057 J	0.016 G	0.584 G	0.563 J	-0.030 F
245.0	1.047 G	1.007 J	0.016 G	0.578 G	0.556 J	-0.030 F
240.0	0.997 G	0.958 J	0.015 G	0.559 G	0.538 J	-0.029 F
235.0	0.948 G	0.911 J	0.015 G	0.546 G	0.525 J	-0.028 F
230.0	0.900 G	0.865 J	0.014 G	0.528 G	0.508 J	-0.027 F
225.0	0.854 G	0.821 J	0.014 G	0.505 G	0.486 J	-0.025 F
220.0	0.810 G	0.779 J	0.013 G	0.479 G	0.461 J	-0.024 F
215.0	0.768 G	0.739 J	0.013 G	0.464 G	0.446 J	-0.023 F
210.0	0.727 G	0.699 J	0.012 G	0.447 G	0.430 J	-0.022 F
205.0	0.688 G	0.661 J	0.012 G	0.430 G	0.413 J	-0.021 F
200.0	0.650 G	0.625 J	0.011 G	0.410 G	0.394 J	-0.020 F
193.3	0.602 G	0.579 J	0.011 G	0.390 G	0.375 J	-0.019 F
186.7	0.556 G	0.535 J	0.011 G	0.369 G	0.355 J	-0.018 F
180.0	0.513 G	0.493 J	0.010 G	0.348 G	0.335 J	-0.017 F
173.3	0.473 G	0.454 J	0.010 G	0.331 G	0.318 J	-0.016 F
166.7	0.434 G	0.417 J	0.009 G	0.314 G	0.302 J	-0.015 B
160.0	0.397 G	0.382 J	0.009 G	0.297 G	0.285 J	-0.015 B
153.3	0.362 G	0.348 J	0.009 G	0.279 G	0.269 J	-0.014 B
146.7	0.330 G	0.317 J	0.008 G	0.262 G	0.252 J	-0.013 B
140.0	0.299 G	0.287 J	0.008 G	0.244 G	0.235 J	-0.012 B
130.0	0.258 G	0.247 J	0.007 G	0.219 G	0.210 J	-0.011 B
120.0	0.221 G	0.212 J	0.007 G	0.193 G	0.186 J	-0.010 B
110.0	0.187 G	0.180 J	0.006 G	0.177 G	0.170 J	-0.010 B
100.0	0.157 G	0.150 J	0.006 G	0.161 G	0.154 J	-0.009 B
90.0	0.129 G	0.123 J	0.005 G	0.144 G	0.139 J	-0.008 B
80.0	0.103 G	0.099 J	0.005 G	0.128 G	0.123 J	-0.007 B
70.0	0.081 G	0.078 J	0.004 G	0.112 G	0.107 J	-0.006 B
60.0	0.062 G	0.059 J	0.004 G	0.096 G	0.092 J	-0.005 B
50.0	0.045 G	-0.043 D	0.003 G	0.080 G	0.077 J	-0.004 B
40.0	0.030 G	-0.029 D	0.003 G	0.064 G	0.061 J	-0.003 B
30.0	0.017 G	0.017 J	0.002 B	0.048 G	0.046 J	-0.002 B
20.0	0.006 G	0.006 J	0.001 B	0.031 G	0.030 J	-0.001 B
13.3	0.003 G	-0.003 D	0.001 B	0.021 G	0.020 J	-0.001 B
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	-----		0.34 A	0.00 A
	0.19 G	0.56 G		

ELEV	LEGS	DIAG	HORIZ	BRACE
250.0	0.00 A	1.48 B	0.06 G	0.00 A
245.0	3.68 A	1.53 B	0.10 I	0.00 A
240.0	6.69 A	1.70 A	0.14 C	0.00 A
235.0	10.56 A	2.12 B	0.09 A	0.00 A
230.0	14.73 A	2.00 B	0.03 A	0.00 A
225.0	18.41 A	2.63 B	0.05 A	0.00 A
220.0	23.64 A	2.48 H	0.07 A	0.00 A
215.0	27.39 A	2.98 B	0.01 C	0.00 A
210.0	32.87 A	3.06 H	0.08 A	0.00 A
205.0	37.73 A	2.93 B	0.02 A	0.00 A
200.0	43.39 A	3.09 B	0.07 A	0.00 A
193.3	48.93 A	2.97 H	0.02 A	0.00 A
186.7	54.39 A	2.90 L	0.06 A	0.00 A
180.0	59.16 A	2.84 F	0.02 A	0.00 A
173.3	63.85 A	2.82 L	0.04 A	0.00 A
166.7	68.09 A	2.80 F	0.02 A	0.00 A
160.0	72.30 A	2.81 L	0.03 A	0.00 A
153.3	76.18 A	2.81 J	0.05 A	0.00 A
146.7	80.04 A	2.84 J	0.03 A	0.00 A
140.0	84.47 A	3.12 J	0.03 A	0.00 A
130.0	89.73 A	3.15 J	0.06 A	0.00 A
120.0	94.58 A	3.17 D	0.03 A	0.00 A
110.0	99.28 A	3.23 J	0.03 A	0.00 A
100.0	103.74 A	3.29 J	0.03 A	0.00 A
90.0	108.14 A	3.36 J	0.03 A	0.00 A
80.0	112.36 A	3.43 J	0.02 A	0.00 A
70.0	116.54 A	3.52 J	0.03 A	0.00 A
60.0	120.57 A	3.60 D	0.02 A	0.00 A
50.0	124.56 A	3.68 J	0.02 A	0.00 A
40.0	128.44 A	3.77 D	0.01 C	0.00 A
30.0	132.26 A	3.85 D	0.02 G	0.00 A
20.0	137.00 A	4.02 D	0.06 A	0.00 A
13.3	135.83 A	5.19 J	0.21 I	0.00 B
0.0			0.00 A	0.00 A

442425

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV	LEGS	DIAG	HORIZ	BRACE
255.0			-0.35 G	0.00 A

442425

250.0	-0.35 A	-0.54 A	-0.05 A	0.00 A
245.0	-4.08 G	-1.50 B	-0.03 C	0.00 A
240.0	-8.05 G	-1.62 B	-0.04 I	0.00 A
235.0	-12.61 G	-2.05 G	-0.02 G	0.00 A
230.0	-18.56 G	-1.97 B	-0.02 G	0.00 A
225.0	-23.23 G	-2.17 B	0.00 G	0.00 A
220.0	-29.66 G	-2.64 H	-0.05 G	0.00 A
215.0	-35.36 G	-2.52 B	0.00 A	0.00 A
210.0	-41.78 G	-3.07 G	-0.05 G	0.00 A
205.0	-48.53 G	-3.06 B	0.00 A	0.00 A
200.0	-53.99 G	-2.98 H	-0.04 G	0.00 A
193.3	-60.47 G	-3.10 H	-0.01 G	0.00 A
186.7	-66.90 G	-3.01 B	-0.04 G	0.00 A
180.0	-73.33 G	-2.92 F	-0.01 G	0.00 A
173.3	-79.10 G	-2.88 L	-0.03 G	0.00 A
166.7	-84.88 G	-2.84 F	-0.01 G	0.00 A
160.0	-90.21 G	-2.83 L	-0.02 G	0.00 A
153.3	-95.54 G	-2.83 F	-0.03 G	0.00 A
146.7	-100.53 G	-2.85 J	-0.02 G	0.00 A
140.0	-105.57 G	-2.85 J	-0.02 G	0.00 A
130.0	-111.44 G	-3.18 J	-0.03 G	0.00 A
120.0	-118.59 G	-3.18 D	-0.02 G	0.00 A
110.0	-125.45 G	-3.22 J	-0.02 G	0.00 A
100.0	-132.35 G	-3.27 D	-0.01 G	0.00 A
90.0	-139.02 G	-3.33 J	-0.02 G	0.00 A
80.0	-145.70 G	-3.40 J	-0.01 G	0.00 A
70.0	-152.22 G	-3.48 J	-0.01 G	0.00 A
60.0	-158.75 G	-3.56 J	-0.01 G	0.00 A
50.0	-165.19 G	-3.64 J	-0.01 G	0.00 A
40.0	-171.63 G	-3.72 D	-0.01 I	0.00 A
30.0	-177.99 G	-3.80 J	-0.04 A	0.00 A
20.0	-184.33 G	-3.88 J	-0.03 G	0.00 A
13.3	-191.18 G	-4.09 J	-0.31 C	0.00 B
0.0	-192.35 G	-5.23 D	0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

-----LOAD-----COMPONENTS-----				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
17.75 G	15.27 K	199.66 G	-141.09 A	17.75 G

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

442425

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-----HORIZONTAL-----			DOWN	-----OVERTURNING-----			TORSION
NORTH	EAST	TOTAL		NORTH	EAST	TOTAL	
		@				@	
		0.0				0.0	
27.5	26.3	27.5	79.3	4350.3	4172.6	4350.3	-11.2
G	J	G	B	G	J	G	B

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DRILLED STRAIGHT PIER DESIGN BY SABRE TOWERS & POLES

Tower Description 255' S3TL Series HD1
 Customer Name AT&T
 Job Number 442425
 Date 9/9/2019
 Engineer REB

Factored Uplift (kips)	472
Factored Download (kips)	544
Factored Shear (kips)	50
Ultimate Bearing Pressure	72
Bearing Φ s	0.75
Bearing Design Strength (ksf)	54
Water Table Below Grade (ft)	999
Bolt Circle Diameter (in)	13.25
Top of Concrete to Top of Bottom Threads (in)	65.125
Pier Diameter (ft)	3.5
Ht. Above Ground (ft)	0.5
Pier Length Below Ground (ft)	23
Quantity of Bars	14
Bar Diameter (in)	1.27
Area of Bars (in ²)	17.73
Spacing of Bars (in)	7.57
Tie Bar Diameter (in)	0.5
Spacing of Ties (in)	11
f'c (ksi)	4.5
fy (ksi)	60

Minimum Pier Diameter (ft) 2.44

Minimum Area of Steel (in²) 6.93

Unit Wt. of Concrete (kcf)	0.15
Download Friction Φ s	0.75
Uplift Friction Φ s	0.75
Volume of Concrete (yd ³)	8.37
Skin Friction Factor for Uplift	1
Ignore Bottom Length in Download?	<input type="checkbox"/>

Length to Ignore Download (ft)

0

Depth at Bottom of Layer (ft)	Ult. Skin Friction (ksf)	(Ult. Skin Friction)*(Uplift Factor)	γ (kcf)
2	0.00	0.00	0.11
4	1.05	1.05	0.11
5	0.50	0.50	0.11
15	2.40	2.40	0.11
25	3.60	3.60	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

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

Download:

Factored Net Weight of Concrete (kips)	11.5		
Bearing Design Strength (kips)	519.5		
Skin Friction Design Strength (kips)	456.9		
Download Design Strength (kips)	976.4	Factored Net Download (kips)	555.5

Uplift:

Nominal Skin Friction (kips)	609.2		
W _c , Weight of Concrete (kips)	33.9		
W _R , Soil Resistance (kips)	651.9		
ΦsWr+0.9Wc (kips)	519.4		
Uplift Design Strength (kips)	487.4	Factored Uplift (kips)	472.0

Tension:

Design Tensile Strength (kips)	957.7	Tu (kips)	472.0
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Shear:

ΦV _n (kips)	112.5	V _u (kips)	50.0
ΦV _c =Φ2(1+N _u /(500A _g))f' _c ^{1/2} b _w d (kips)	51.3		
V _s (kips)	72.0	*** V _s max = 4 f' _c ^{1/2} b _w d (kips)	378.7
Maximum Spacing (in)	11.15	(Only if Shear Ties are Required)	
		*** Ref. ACI 11.5.5 & 11.5.6.3	

Anchor Bolt Pull-Out:

ΦP _c =Φλ(2/3)f' _c ^{1/2} (2.8A _{SLOPE} + 4A _{FLAT})	208.8	P _u (kips)	472.0
Rebar Development Length (in)	51.89	Required Length of Development (in)	27.99

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

MAT FOUNDATION DESIGN BY SABRE TOWERS & POLES

Tower Description 255' S3TL Series HD1
 Customer AT&T
 Project Number 442425
 Date 9/9/2019
 Engineer REB

Overall Loads:			
Factored Moment (ft-kips)	12871.21		
Factored Axial (kips)	240.91		
Factored Shear (kips)	81.04		
Individual Leg Loads:			
Factored Uplift (kips)	472.00		
Factored Download (kips)	544.00		
Factored Shear (kips)	50.00		
		Tower eccentric from mat (ft)=	2.25
Width of Tower (ft)	29	Allowable Bearing Pressure (ksf)	24.00
Ultimate Bearing Pressure	48.00	Safety Factor	2.00
Bearing Φs	0.75		
Bearing Design Strength (ksf)	36	Max. Factored Net Bearing Pressure (ksf)	3.86
Water Table Below Grade (ft)	999		
Width of Mat (ft)	36	Minimum Mat Width (ft)	35.01
Thickness of Mat (ft)	2		
Depth to Bottom of Slab (ft)	6		
Bolt Circle Diameter (in)	13.25		
Top of Concrete to Top of Bottom Threads (in)	65.125	Minimum Pier Diameter (ft)	2.44
Diameter of Pier (ft)	3	Equivalent Square b (ft)	2.66
Ht. of Pier Above Ground (ft)	0.5		
Ht. of Pier Below Ground (ft)	4		
Quantity of Bars in Mat	57		
Bar Diameter in Mat (in)	1.128		
Area of Bars in Mat (in ²)	56.96		
Spacing of Bars in Mat (in)	7.59	Recommended Spacing (in)	6 to 12
Quantity of Bars Pier	16		
Bar Diameter in Pier (in)	1.128		
Tie Bar Diameter in Pier (in)	0.5	Minimum Pier A _s (in ²)	5.09
Spacing of Ties (in)	12	Recommended Spacing (in)	5 to 12
Area of Bars in Pier (in ²)	15.99		
Spacing of Bars in Pier (in)	5.44		
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 ³)	99.53		

MAT FOUNDATION DESIGN BY SABRE TOWERS & POLES (CONTINUED)

Two-Way Shear:

Average d (in)	19.872
ϕV_c (ksi)	0.228
$\phi V_c = \phi(2 + 4/\beta_c)f'_c{}^{1/2}$	0.342
$\phi V_c = \phi(\alpha_s d/b_o + 2)f'_c{}^{1/2}$	0.378
$\phi V_c = \phi 4f'_c{}^{1/2}$	0.228
Shear perimeter, b_o (in)	171.76
β_c	1

v_u (ksi) 0.167

Stability:

Overturning Design Strength (ft-k) 16660.8 Factored Overturning Moment (ft-k) 13398.0

One-Way Shear:

ϕV_c (kips) 979.0 V_u (kips) 617.0

Pier Design:

Design Tensile Strength (kips) 863.4 T_u (kips) 472.0

ϕV_n (kips) 56.6 V_u (kips) 50.0

$\phi V_c = \phi 2(1 + N_u/(500A_g))f'_c{}^{1/2}b_w d$ 8.6

V_s (kips) 56.5 V_s max = $4 f'_c{}^{1/2}b_w d$ (kips) 278.2

Maximum Spacing (in) 13.01 (Only if Shear Ties are Required)

Actual Hook Development (in) 18.74 Req'd Hook Development l_{dh} (in) 14.12

*** Ref. ACI 11.5.5 & 11.5.6.3

Anchor Bolt Pull-Out:

$\phi P_c = \phi \lambda (2/3)f'_c{}^{1/2}(2.8A_{SLOPE} + 4A_{FLAT})$ 153.4 P_u (kips) 472.0

Pier Rebar Development Length (in) 54.81 Required Length of Development (in) 27.58

Flexure in Slab:

ϕM_n (ft-kips) 4828.7 M_u (ft-kips) 4790.8

a (in) 2.07

Steel Ratio 0.00664

β_1 0.825

Maximum Steel Ratio (ρ) 0.0197

Minimum Steel Ratio 0.0018

Rebar Development in Pad (in) 101.49 Required Development in Pad (in) 15.61

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	1
One-Way Shear	1
Hook Development	1
Minimum Mat Depth	1

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"/>	Active ▾
<input type="button" value="Search"/>				

	Utility ID	Utility Name	Utility Type	Class	City	State
<input type="button" value="View"/>	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	C	San Francisco	CA
<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	D	Morristown	NJ
<input type="button" value="View"/>	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
<input type="button" value="View"/>	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
<input type="button" value="View"/>	4107800	American Broadband and Telecommunications Company	Cellular	D	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	D	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"/>	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

View	4100700	Cellco Partnership dba Verizon Wireless	Cellular A	Basking Ridge	NJ
View	4106600	Cintex Wireless, LLC	Cellular D	Rockville	MD
View	4111150	Comcast OTR1, LLC	Cellular D	Philadelphia	PA
View	4101900	Consumer Cellular, Incorporated	Cellular A	Portland	OR
View	4106400	Credo Mobile, Inc.	Cellular B	San Francisco	CA
View	4108850	Cricket Wireless, LLC	Cellular D	San Antonio	TX
View	10640	Cumberland Cellular Partnership	Cellular A	Elizabethtown	KY
View	4111200	Dynalink Communications, Inc.	Cellular C	Brooklyn	NY
View	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular A	Ivel	KY
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular D	Ocala	FL
View	4109500	Enhanced Communications Group, LLC	Cellular D	Bartlesville	OK
View	4110450	Excellus Communications, LLC	Cellular D	Chattanooga	TN
View	4105900	Flash Wireless, LLC	Cellular C	Concord	NC
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular D	Oak Hill	VA
View	4109350	Global Connection Inc. of America	Cellular D	Norcross	GA
View	4102200	Globalstar USA, LLC	Cellular B	Covington	LA
View	4109600	Google North America Inc.	Cellular A	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular D	Quincy	MA
View	4106000	GreatCall, Inc. d/b/a Jitterbug	Cellular A	San Diego	CA
View	10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular A	Basking Ridge	NJ
View	4103100	i-Wireless, LLC	Cellular A	Newport	KY
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular D	Tulsa	OK
View	22215360	KDDI America, Inc.	Cellular D	New York	NY
View	10872	Kentucky RSA #1 Partnership	Cellular A	Basking Ridge	NJ
View	10680	Kentucky RSA #3 Cellular General	Cellular A	Elizabethtown	KY
View	10681	Kentucky RSA #4 Cellular General	Cellular A	Elizabethtown	KY
View	4109750	Konatel, Inc. dba telecom.mobi	Cellular D	Johnstown	PA
View	4111250	Liberty Mobile Wireless, LLC	Cellular C	Sunny Isles Beach	
View	4111400	Locus Telecommunications, LLC	Cellular C	Fort Lee	NJ
View	4110900	Lunar Labs, Inc.	Cellular D	Detroit	MI
View	4107300	Lycamobile USA, Inc.	Cellular D	Newark	NJ
View	4108800	MetroPCS Michigan, LLC	Cellular A	Bellevue	WA
View	4109650	Mitel Cloud Services, Inc.	Cellular D	Mesa	AZ

View	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular A	San Antonio	TX
View	10900	New Par dba Verizon Wireless	Cellular A	Basking Ridge	NJ
View	4000800	Nextel West Corporation	Cellular D	Overland Park	KS
View	4001300	NPCR, Inc. dba Nextel Partners	Cellular D	Overland Park	KS
View	4001800	OnStar, LLC	Cellular A	Detroit	MI
View	4110750	Onvoy Spectrum, LLC	Cellular D	Plymouth	MN
View	4109050	Patriot Mobile LLC	Cellular D	Irving	TX
View	4110250	Plintron Technologies USA LLC	Cellular D	Bellevue	WA
View	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular D	Cincinnati	OH
View	4202100	Powertel/Memphis, Inc. dba T-Mobile	Cellular A	Bellevue	WA
View	4107700	Puretalk Holdings, LLC	Cellular A	Covington	GA
View	4111350	Q LINK MOBILE LLC	Cellular C	Dania Beach	FL
View	4106700	Q Link Wireless, LLC	Cellular B	Dania	FL
View	4108700	Ready Wireless, LLC	Cellular B	Hiawatha	IA
View	4110500	Republic Wireless, Inc.	Cellular D	Raleigh	NC
View	4111100	ROK Mobile, Inc.	Cellular C	Culver City	CA
View	4106200	Rural Cellular Corporation	Cellular A	Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular D	Los Angeles	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular D	Freemont	NE
View	4106300	SI Wireless, LLC	Cellular A	Carbondale	IL
View	4110150	Spectrotel, Inc. d/b/a Touch Base Communications	Cellular D	Neptune	NJ
View	4111450	Spectrum Mobile, LLC	Cellular C	St. Louis	MO
View	4200100	Sprint Spectrum, L.P.	Cellular A	Atlanta	GA
View	4200500	SprintCom, Inc.	Cellular A	Atlanta	GA
View	4109550	Stream Communications, LLC	Cellular D	Dallas	TX
View	4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular D	Red Bluff	CA
View	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular A	Bellevue	WA
View	4002500	TAG Mobile, LLC	Cellular D	Carrollton	TX
View	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular D	South Portland	ME
View	4107200	Telefonica USA, Inc.	Cellular D	Miami	FL
View	4108900	Telrite Corporation	Cellular D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular D	Atlanta	GA
View	4109950	The People's Operator USA, LLC	Cellular D	New York	NY
View	4109000	Ting, Inc.	Cellular A	Toronto	ON

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

EXHIBIT E
FAA



Federal Aviation Administration

<< OE/AAA

Proposed Case for : 2019-ASO-21667-OE

For information only.
 This proposal has not yet been studied. Study outcomes will be posted at a later date.
 Public comments are not requested, and will not be considered at this time.

Overview				
Study (ASN): 2019-ASO-21667-OE	Received Date: 07/08/2019			
Prior Study:	Entered Date: 07/08/2019			
Status: Work In Progress	Map: View Map			
Construction Info				
Notice Of: CONSTR	Structure Summary			
Duration: PERM (Months: 0 Days: 0)	Structure Type: Antenna Tower			
Work Schedule:	Structure Name: Duncan Ridge			
	FCC Number:			
Structure Details				
Latitude (NAD 83): 36° 56' 42.51" N	Height and Elevation			
Longitude (NAD 83): 87° 04' 14.38" W				
Datum: NAD 83	Site Elevation: Proposed 572			
City: SHARON GROVE	Structure Height: 270			
State: KY	Total Height (AMSL): 842			
Nearest County: Todd				
Frequencies				
Low Freq	High Freq	Unit	ERP	Unit
6	7	GHz	55	dBW
6	7	GHz	42	dBW
10	11.7	GHz	55	dBW
10	11.7	GHz	42	dBW
17.7	19.7	GHz	55	dBW
17.7	19.7	GHz	42	dBW
21.2	23.6	GHz	55	dBW
21.2	23.6	GHz	42	dBW
614	698	MHz	1000	W
614	698	MHz	2000	W
698	806	MHz	1000	W
806	901	MHz	500	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
929	932	MHz	3500	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1670	1675	MHz	500	W
1710	1755	MHz	500	W
1850	1910	MHz	1640	W
1850	1990	MHz	1640	W
1930	1990	MHz	1640	W
1990	2025	MHz	500	W
2110	2200	MHz	500	W
2305	2360	MHz	2000	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W
2496	2690	MHz	500	W

EXHIBIT F
KENTUCKY AIRPORT ZONING COMMISSION



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 #	
ADDRESS (street) 3300 E. Renner Road, B3132		CITY Richardson		STATE TX	ZIP 75082
APPLICANT'S REPRESENTATIVE (name) Matt Hill		PHONE 615-339-5218	FAX		
ADDRESS (street) 1975 Joe B. Jackson Parkway		CITY Murfreesboro		STATE TN	ZIP 37127
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 36° 56' 42.51 "		LONGITUDE 87° 04' 14.38 "		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City ^{Sharon Grove} County ^{Todd}		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT 4M7 RUSSELLVILLE-LOGAN COUNTY			
SITE ELEVATION (AMSL, feet) 572		TOTAL STRUCTURE HEIGHT (AGL, feet) 270		CURRENT (FAA aeronautical study #) 2019-ASO-21667-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 842				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 15.24 NM				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) South-East					
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? 8/22/019					
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 		DATE 9/6/2019	
COMMISSION ACTION <input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC					
<input type="checkbox"/> Approved		SIGNATURE		DATE	
<input type="checkbox"/> Disapproved					

EXHIBIT G
GEOTECHNICAL REPORT



GPD# 2019723.13800711.01
August 21, 2019

GEOTECHNICAL REPORT

Client Site Number: KYL03681
Site USID: 185924
FA Number: 13800711
Site Name: DUNCAN RIDGE

Site Data: Antioch Church Road
Sharon Grove (Todd County), Kentucky 42280
Latitude 36° 56' 42.51" N, Longitude 87° 04' 14.38" W
Proposed 255-ft Self-Support Tower

GPD Group is pleased to submit this **Geotechnical Report** for the aforementioned tower. The purpose of the following report is to summarize the soil/rock conditions encountered during the subsurface exploration at this site and provide geotechnical engineering parameters for the proposed tower and shelter foundation systems.

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

Respectfully Submitted,

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



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

GEOTECHNICAL EXPLORATION

Drilling and soil sampling was performed by Greenbaum Associates, Inc. using a truck-mounted rotary drill rig. Three (3) sample borings were drilled near the proposed tower location. Representative samples were obtained by the split-barrel sampling procedure in general accordance with appropriate ASTM standards. In the split-barrel sampling procedure, the number of blows required to advance a standard 2-inch O.D. split-barrel sampler the last 12 inches of the typical total 18-inch penetration by means of a 140-pound hammer with a free fall of 30 inches, is the standard penetration resistance value (N). Sampling depths and penetration distance, plus the standard penetration resistance values, are shown on the attached boring log. The samples were sealed and mailed to our laboratory for soil classification in general accordance with appropriate ASTM standards.

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

ROCK EXPLORATION

Boring B-1 was advanced into the rock using core drilling procedures in general accordance with the appropriate ASTM standard. The rock was classified in the field and the "percent recovery" and rock quality designation (RQD) values were determined.

The "percent recovery" is the ratio of the sample length retrieved to the drilled length, expressed as a percent. An indication of the actual in-situ rock quality is provided by calculating the sample's RQD. The RQD is the percentage of the length of broken cores retrieved which have core segments at least 4 inches in length compared to each drilled length. The percent recovery and RQD are related to rock soundness and quality as illustrated below:

Table 1: Rock Quality Designation (RQD)

Relation of RQD and In-situ Rock Quality	
RQD (%)	Rock Quality
90 - 100	Excellent
75 - 90	Good
50 - 75	Fair
25 - 50	Poor
0 -25	Very Poor

Classification and descriptions of rock core samples are based on visual and tactile observations. Petrographic analysis of thin sections may indicate other rock types. Percent recovery and rock quality designation (RQD) were calculated for these samples and are noted at their depths of occurrence on the boring log B-1.

SOIL CLASSIFICATION

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

LABORATORY TESTING

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

The laboratory testing program consisted of performing the following tests:

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

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

SOIL RESISTIVITY AND REACTIVITY

Soil resistivity and pH testing was performed as a part of the geotechnical investigation at this site. A composite sample was obtained within the upper 10-ft for laboratory testing. Laboratory resistivity measurements were obtained using a Miller 400-A Analog Resistance Meter implementing the 2-electrode method in conjunction with an electrolyte box in accordance with ASTM G-187-12A. It should be noted that the soil samples were saturated for this testing procedure. Based on the laboratory test results, most of the soil is rated "**Highly Corrosive**" with resistivity measurements on average of about **1,850 ohm-cm** (refer to Table below). Additionally, soil pH tests were conducted in accordance with ASTM D-4972. An average soil pH of **7.1** was measured at **23°C** for the surficial soils at the project location.

Table 2: Soil Resistivity Classification System

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

GROUNDWATER

Groundwater was not encountered during drilling operations as noted on the attached boring log. It should be noted that fluctuations in the groundwater level can occur and perched water can develop over low permeability soil or rock strata following periods of heavy or prolonged precipitation. Long term monitoring in cased holes or piezometers would be necessary to accurately evaluate the potential range of groundwater conditions on the site.

EARTHWORK

All surfaces cut to subgrade elevation or subgrades to receive fill should be proof-rolled under the direction of an on-site geotechnical engineer or their representative. Proof-rolling should be performed with a minimum 20 ton dump truck. Two (2) passes, (1 forward and 1 backward) should be made at normal walking speed. Any soft, loose, yielding, or obviously contaminated zones should be undercut as directed by the engineer.

All backfill placed adjacent to foundations should be select material, as approved by a qualified geotechnical engineer. For all filling operations, the following should be observed:

1. Prior to use, the approved fill material should be tested as outlined in ASTM D-698 to determine the maximum dry density and optimum moisture content for silty or cohesive soils, or ASTM D-4253 and D-4254 for clean granular soils. For each change in borrow material, additional tests will be required.
2. For all fill or backfill used, the fill material should be placed on the approved subgrade in controlled lifts, with each lift compacted to a stable condition, and to a minimum of 98% maximum dry density per ASTM D-698 at a moisture content within 1.5% of optimum for cohesive or silty borrow. Controlled lifts of granular material should be compacted to 80% relative density per ASTM D-4254.
3. All filling operations should be observed by a qualified soils technician with field density tests made, to assure compaction to specification.

Backfill may consist of mixes of natural soil or crushed aggregate meeting one of the following USCS Classifications: GW, GP, GM, GC, SW, SP, SM, SC, CL, ML, or any dual symbol combinations of the preceding. Backfill material should contain a maximum organic content of 1 percent, and a maximum particle size of 3-inches. Excavated site soils are considered acceptable for reuse as structural fill at this project location.

The clay soils encountered on the surface of the site should be excavatable with the use of conventional backhoes, front-end loaders and motorized scrapers. Excavations that extend below the limestone bedrock surface, encountered at a depth of approximately 4 feet, will likely require ripping or blasting to facilitate removal.

TOWER FOUNDATION GEOTECHNICAL RECOMMENDATIONS

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

Table 3: Self-Support Tower – Drilled Pier – Ultimate Design Parameters

Depth (feet)	USCS	Unit Weight (pcf)	Horizontal Modulus of Subgrade Reaction (pci)	ϵ_{so}	Ultimate Skin Friction (psf)	Ultimate Bearing Pressure (psf)	Internal Angle of Friction (Degrees)	Cohesion (psf)
0 – 2 ¹	CL	120	Ignore ¹	Ignore ¹	Ignore ¹	Ignore ¹	-	-
2 – 4	CL	125	200	0.007	1,050	15,000	0	2,500
4 – 5	LIMESTONE	145	270	-	500	18,000	42	0
5 – 15	LIMESTONE	155	600 ²	0.00001	2,400	48,000	0	12,000
15 – 25	LIMESTONE	160	900 ²	0.00001	3,600	72,000	0	18,000

¹The upper 2-ft should be ignored due to potential frost effects and construction disturbance considerations.

²Value given is the initial modulus of rock mass, E_{ri}, in ksi.

Table 4: Self-Support Tower – Shallow Foundation – Ultimate Design Parameters

Depth (feet)	USCS	Total Unit Weight (pcf)	Ultimate Bearing Pressure (psf)	Sliding Friction Coefficient @ Base	Vertical Modulus of Subgrade Reaction (pci)	Internal Angle of Friction (Degrees)	Cohesion (psf)
0 – 2 ¹	CL	120	Ignore ¹	Ignore ¹	Ignore ¹	-	-
2 – 4	CL	125	15,000	0.35	250	0	2,500
4 – 5	LIMESTONE	145	18,000	0.50	300	42	0
5 – 10	LIMESTONE	155	48,000	0.60	1,000	0	12,000

¹The upper 2-ft should be ignored due to potential frost effects and construction disturbance considerations.

The above parameters are provided for the design of either cast-in-place concrete piers or a shallow foundation system. In the event that a different foundation or tower type is chosen, these parameters are not considered valid and GPD Group should be notified immediately to provide appropriate design parameters, as warranted.

SHELTER FOUNDATION GEOTECHNICAL RECOMMENDATIONS

Based on the results of this study, it is our opinion that a turn-down slab foundation system, bearing on suitable native soils or on properly compacted fill, would be appropriate for support of a communications shelter at this site. The foundation should be designed using a maximum net allowable soil bearing pressure of **2,500 psf**. The recommended net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation. The thickened portion of the turn-down slab should have a minimum width of 18 inches to preclude local shear failure and should bear at least 2.0 feet below the lowest adjacent finished grade for frost protection.

The base of all foundation excavations should be free of water and loose soil prior to placing concrete. Concrete should be placed as soon as possible after excavating to minimize bearing soil disturbance. Should the soils at bearing level become excessively dry, saturated, disturbed or otherwise altered, the affected soil should be removed prior to placing concrete. It may be desirable to stabilize the bottom of excavations with a relatively coarse and well graded crushed stone or gravel, or a lean concrete mud mat.

Should a high groundwater table occur during construction, water seepage into foundation excavations is anticipated. Any seepage into the anticipated excavations should be minor and dewatering should be possible with sump pits and pumps.

All thickened slab excavations should be observed and tested by a qualified geotechnical engineer or their representative. Testing should include dynamic cone penetrometer tests and/or other testing deemed necessary by GPD Group. Where unsuitable bearing soils are encountered in the excavations for the thickened portion of the slab, the excavations should be extended deeper to suitable soils where the thickened portion of the slab could bear on properly compacted backfill extending down to the suitable soils. Overexcavation for compacted backfill placement below the thickened portion of the slab should extend laterally beyond all edges of the thickened portion of the slab at least 8 inches per foot of overexcavation depth below the foundation base elevation. The overexcavation should then be backfilled up to the foundation base elevation with well-graded granular material placed in lifts of 9 inches or less in loose thickness and compacted to at least 98 percent of the material's maximum standard Proctor dry density (ASTM D-698). The overexcavation and backfill procedure is described in the figure below.

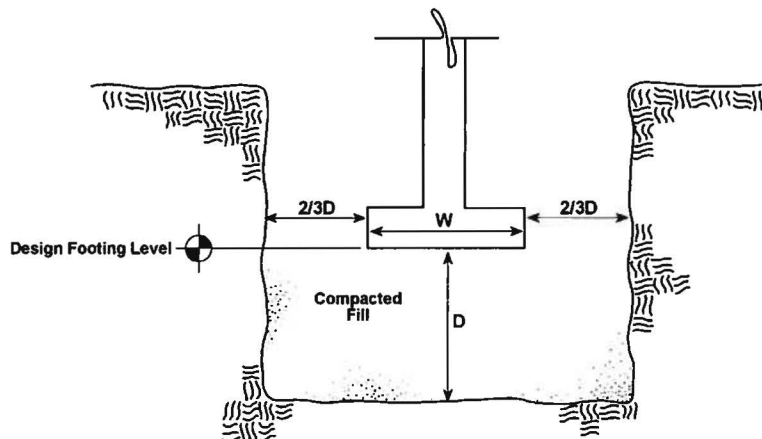


Figure 1: Overexcavation and Backfill Procedure

CONSTRUCTION CONSIDERATIONS

Drilled pier foundations should be designed with a minimum shaft diameter of 36 inches to facilitate clean out of the pier excavation. Temporary casing may be required during the pier excavation in order to support the sides of the excavation in weak soil zones. Casing should not extend below the rock surface. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction. The bottom of the shaft should be free of loose soil or debris prior to reinforcing steel and concrete placement. It is essential that piers designed using the provided properties are cast against native soil/rock. Overexcavation and forming of piers is not permitted.

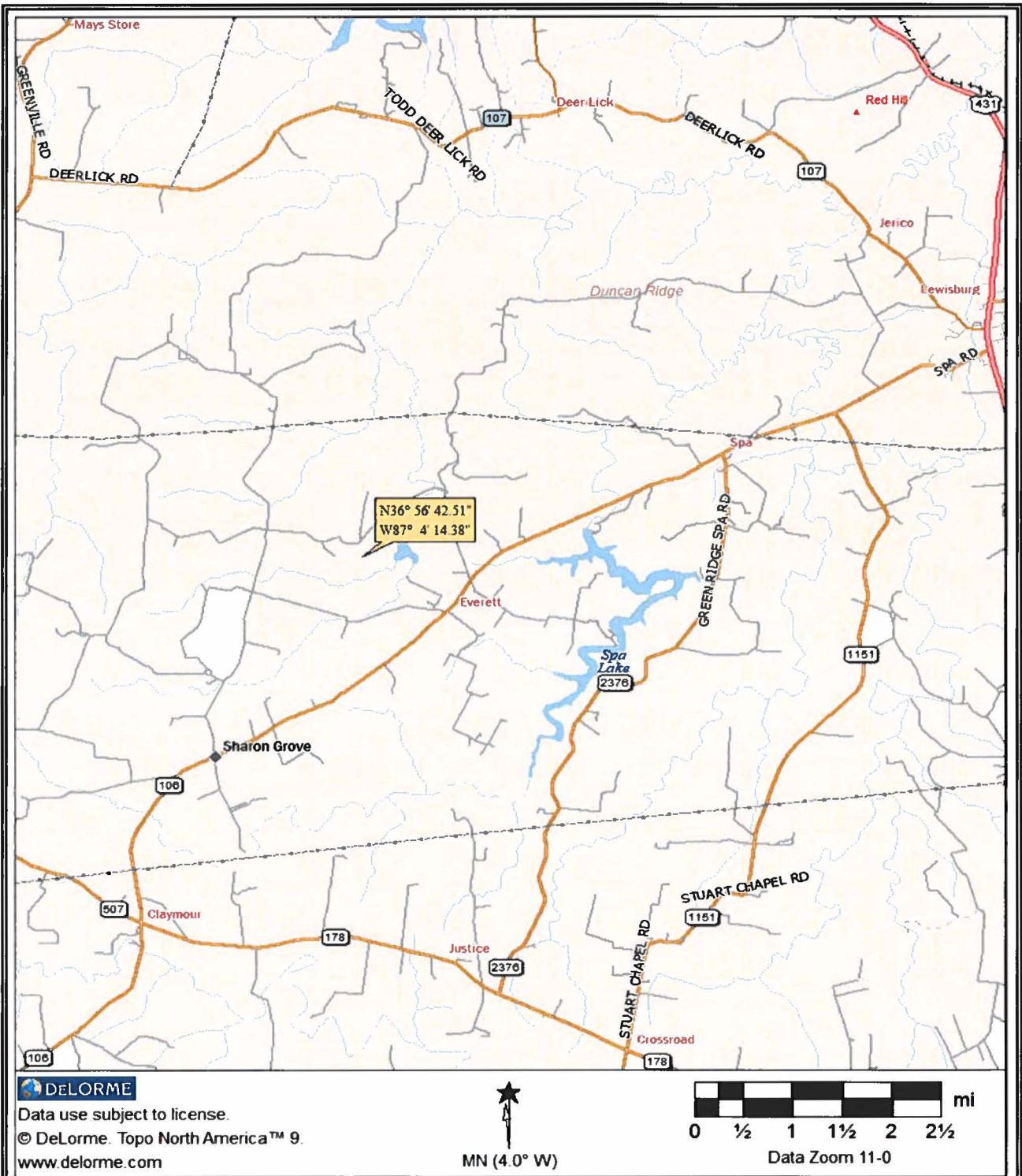
A concrete slump of at least 6 inches is recommended to facilitate temporary casing removal. It should be possible to remove the casing from a pier excavation during concrete placement provided that the concrete inside the casing is maintained at a sufficient level to resist any earth and hydrostatic pressures outside the casing during the entire casing removal procedure.

QUALIFICATIONS

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

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

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



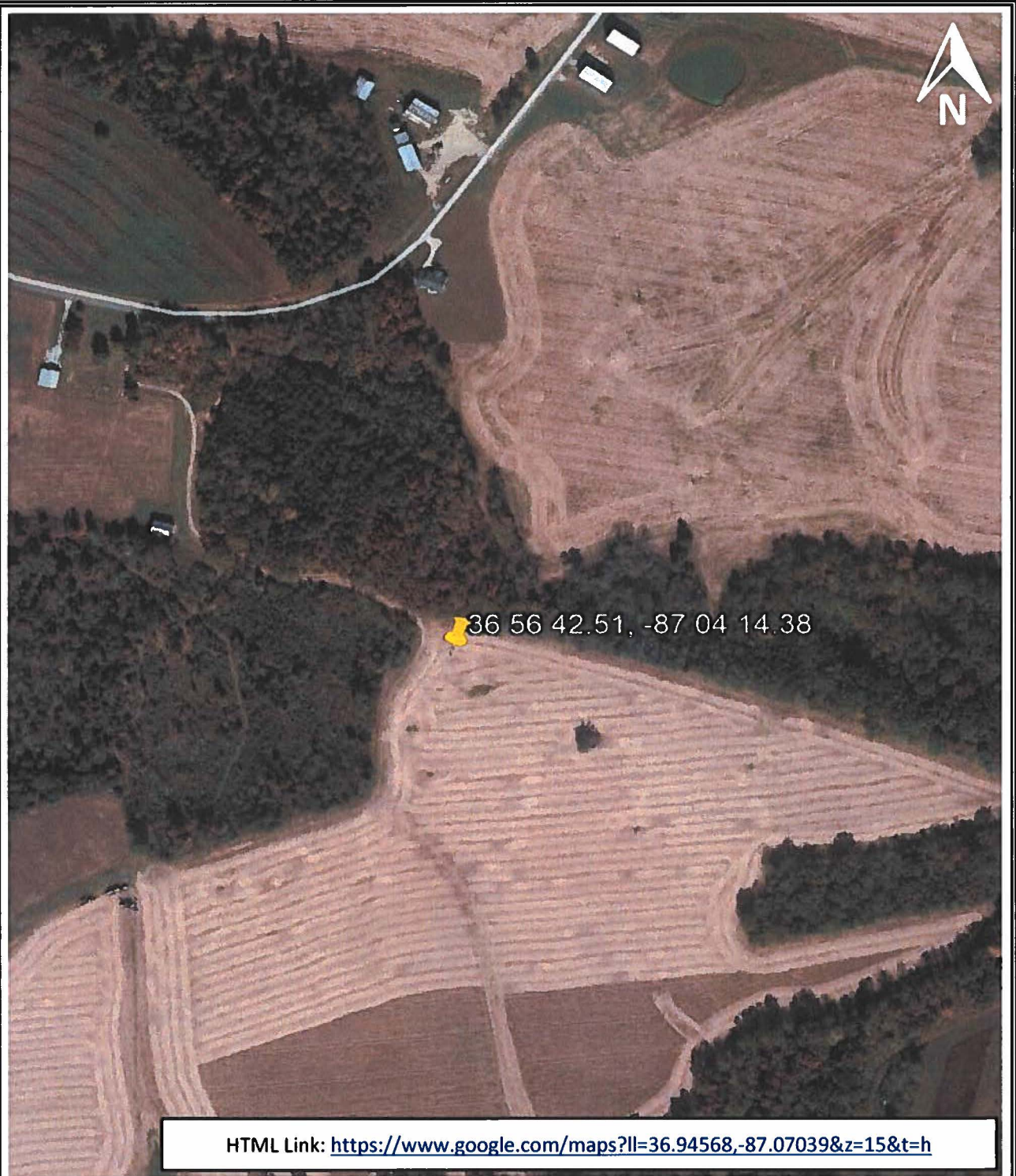
SITE LOCATION MAP

Site Name: DUNCAN RIDGE

Client Site Number: KYL03681

GPD Job Number: 2019723.13800711.01

Date: August 2019



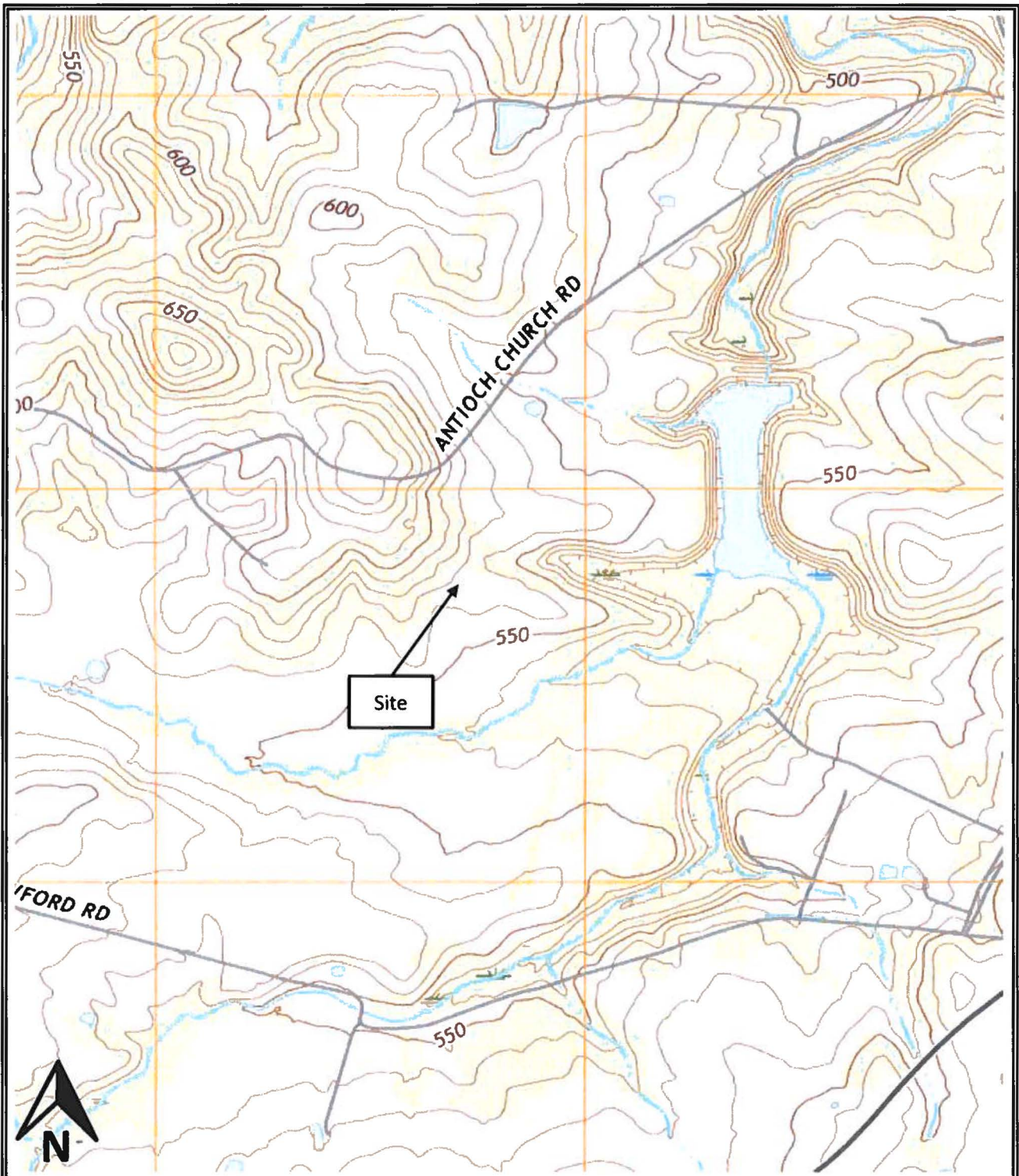
SATELLITE PHOTOGRAPH

Site Name: DUNCAN RIDGE

Client Site Number: KYL03681

GPD Job Number: 2019723.13800711.01

Date: August 2019



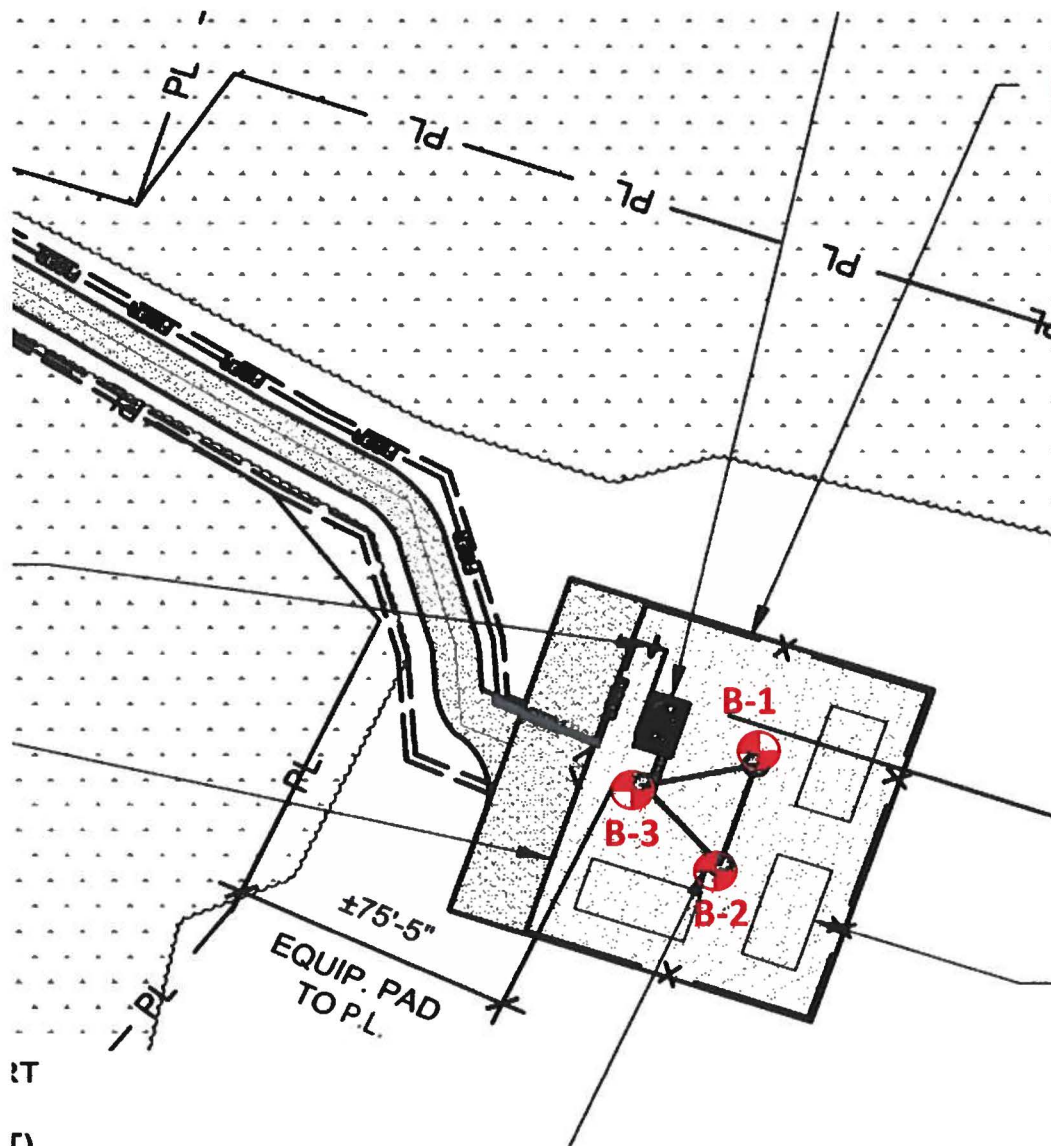
TOPOGRAPHIC MAP

Site Name: DUNCAN RIDGE

Client Site Number: KYL03681

GPD Job Number: 2019723.13800711.01

Date: August 2019



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BORING LOCATION PLAN

Site Name: DUNCAN RIDGE

Client Site Number: KYL03681

GPD Job Number: 2019723.13800711.01

Date: August 2019

Boring Number: B-1

CLIENT MasTec Network Solutions
PROJECT NUMBER 2019723.13800711.01
DATE STARTED August 2, 2019 **COMPLETED** August 2, 2019
DRILLING CONTRACTOR Greenbaum Associates, Inc.
DRILLING METHOD _____
LOGGED BY Connor Groves **CHECKED BY** Dustin Vincent

PROJECT NAME DUNCAN RIDGE
PROJECT LOCATION 1051 Antioch Church Road, Sharon Grove KY
GROUND ELEVATION _____ **HOLE SIZE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING -- DRY
AT END OF DRILLING --

NOTES

CENTER TERMINATION NOTE - GINT STD US LAB.GDT - 8/20/19 08:46 - \\AKRN08\DATA\GEO\TECH\OBS\GINT PROJECTS (STARTED AFTER 03/24/14)\GINT PROJECTS 2018\2019723.13800711.01 DUNCAN RIDGE.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
								LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		Very Stiff red LEAN CLAY (CL) with little sand and gravel with trace organics and calcareous nodes	SS 1	89	7-7-9 (16)	4.5	23				
		Hard below 3 feet	SS 2	100	35-50/2"		10				
5		Gray Highly weathered LIMESTONE Auger refusal at 5 feet below grade Moderately hard to hard slightly weathered to weathered below 5 feet	RC 3	100 (56)							
15		Hard and slightly weathered below 15 feet	RC 4	100 (89)							
25		Boring terminated at 25.0 feet									


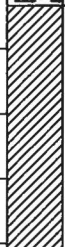
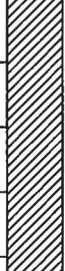
Boring Number: B-2

CLIENT MasTec Network Solutions
PROJECT NUMBER 2019723.13800711.01
DATE STARTED August 2, 2019 **COMPLETED** August 2, 2019
DRILLING CONTRACTOR Greenbaum Associates, Inc.
DRILLING METHOD _____
LOGGED BY Connor Groves **CHECKED BY** Dustin Vincent

PROJECT NAME DUNCAN RIDGE
PROJECT LOCATION 1051 Antioch Church Road, Sharon Grove KY
GROUND ELEVATION _____ **HOLE SIZE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING -- DRY
AT END OF DRILLING -- DRY

NOTES

CENTER TERMINATION NOTE - GINT STD US LAB.GDT - 8/20/19 08:46 - \\AKR\08\DATA\GEO\TECH\OBS\GINT PROJECTS (STARTED AFTER 03/24/14)\GINT PROJECTS 2018\2019\723.13800711.01 DUNCAN RIDGE.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
								LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		Topsoil, 7 inches									
		Very Stiff brownish red LEAN CLAY (CL) with little sand and trace gravel and organics	SS 1	89	6-7-9 (16)	4.5	17				
2.5		Very hard reddish brown with little sand and gravel with trace limestone fragments below 3 feet	SS 2	100	32-50/1"	4.5	17				

Auger Refusal at 4.7 feet

Boring Number: B-3

CLIENT MasTec Network Solutions
PROJECT NUMBER 2019723.13800711.01
DATE STARTED August 2, 2019 **COMPLETED** August 2, 2019
DRILLING CONTRACTOR Greenbaum Associates, Inc.
DRILLING METHOD _____
LOGGED BY Connor Groves **CHECKED BY** Dustin Vincent

PROJECT NAME DUNCAN RIDGE
PROJECT LOCATION 1051 Antioch Church Road, Sharon Grove KY
GROUND ELEVATION _____ **HOLE SIZE** _____
GROUND WATER LEVELS:
AT TIME OF DRILLING -- DRY
AT END OF DRILLING -- DRY

NOTES

CENTER TERMINATION NOTE - GINT STD US LAB.GDT - 8/20/19 08.46 - \\AKRN08\DATA\GEO\TECH\JOBS\GINT PROJECTS (STARTED AFTER 03/24/14)\GINT PROJECTS 2018\2019\723.13800711.01 DUNCAN RIDGE.GPJ

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
								LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0.0		Stiff tannish red LEAN CLAY (CL) with trace sand									
2.5	[Hatched Box]		SS 1	89	7-6-6 (12)	4.5	18				
		Very hard tan with some fine sand and little gravel									
			SS 2	60	50/5"	4.5	12				

Auger Refusal at 4.0 feet

Unified Soil Classification System

Major Divisions			Letter	Symbol	Description
Coarse-grained Soils More than 1/2 retained on the No. 200 Sieve	Gravels More than 1/2 coarse fraction retained on the No. 4 sieve	Clean Gravels	GW		Well-graded gravels and gravel-sand mixtures, little or no fines.
			GP		Poorly-graded gravels and gravel-sand mixtures, little or no fines.
		Gravels With Fines	GM		Silty gravels, gravel-sand-silt mixtures.
			GC		Clayey gravels, gravel-sand-clay mixtures.
	Sands More than 1/2 passing through the No. 200 sieve	Clean Sands	SW		Well-graded sands and gravelly sands, little or no fines.
			SP		Poorly-graded sands and gravelly sands, little or no fines.
		Sands With Fines	SM		Silty sands, sand-silt mixtures
			SC		Clayey sands, sandy-clay mixtures.
Fine-grained Soils More than 1/2 passing through the No. 200 Sieve	Silts and Clays Liquid Limit less than 50%		ML		Inorganic silts, very fine sands, rock flour, silty or clayey fine sands.
			CL		Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays.
			OL		Organic clays of medium to high plasticity.
	Silts and Clays Liquid Limit greater than 50%		MH		Inorganic silts, micaceous or diatomaceous fines sands or silts, elastic silts.
			CH		Inorganic clays of high plasticity, fat clays.
			OH		Organic clays of medium to high plasticity.
Highly Organic Soils			PT		Peat, muck, and other highly organic soils.
Consistency Classification					
<i>Granular Soils</i>			<i>Cohesive Soils</i>		
Description - Blows Per Foot (Corrected)			Description - Blows Per Foot (Corrected)		
	<u>MCS</u>	<u>SPT</u>		<u>MCS</u>	<u>SPT</u>
Very loose	<5	<4	Very soft	<3	<2
Loose	5 - 15	4 - 10	Soft	3 - 5	2 - 4
Medium dense	16 - 40	11 - 30	Firm	6 - 10	5 - 8
Dense	41 - 65	31 - 50	Stiff	11 - 20	9 - 15
Very dense	>65	>50	Very Stiff	21 - 40	16 - 30
			Hard	>40	>30
MCS = Modified California Sampler			SPT = Standard Penetration Test Sampler		

GENERAL NOTES

SAMPLE IDENTIFICATION

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

DRILLING AND SAMPLING SYMBOLS

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

SOIL PROPERTY SYMBOLS

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

RELATIVE DENSITY OF COARSE-GRAINED SOILS

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

ANGULARITY OF COARSE-GRAINED PARTICLES

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

GRAIN-SIZE TERMINOLOGY

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

PARTICLE SHAPE

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

RELATIVE PROPORTIONS OF FINES

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

GENERAL NOTES

(Continued)

CONSISTENCY OF FINE-GRAINED SOILS

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

MOISTURE CONDITION DESCRIPTION

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

RELATIVE PROPORTIONS OF SAND AND GRAVEL

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

STRUCTURE DESCRIPTION

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

SCALE OF RELATIVE ROCK HARDNESS

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

ROCK BEDDING THICKNESSES

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

ROCK VOIDS

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

GRAIN-SIZED TERMINOLOGY

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

ROCK QUALITY DESCRIPTION

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

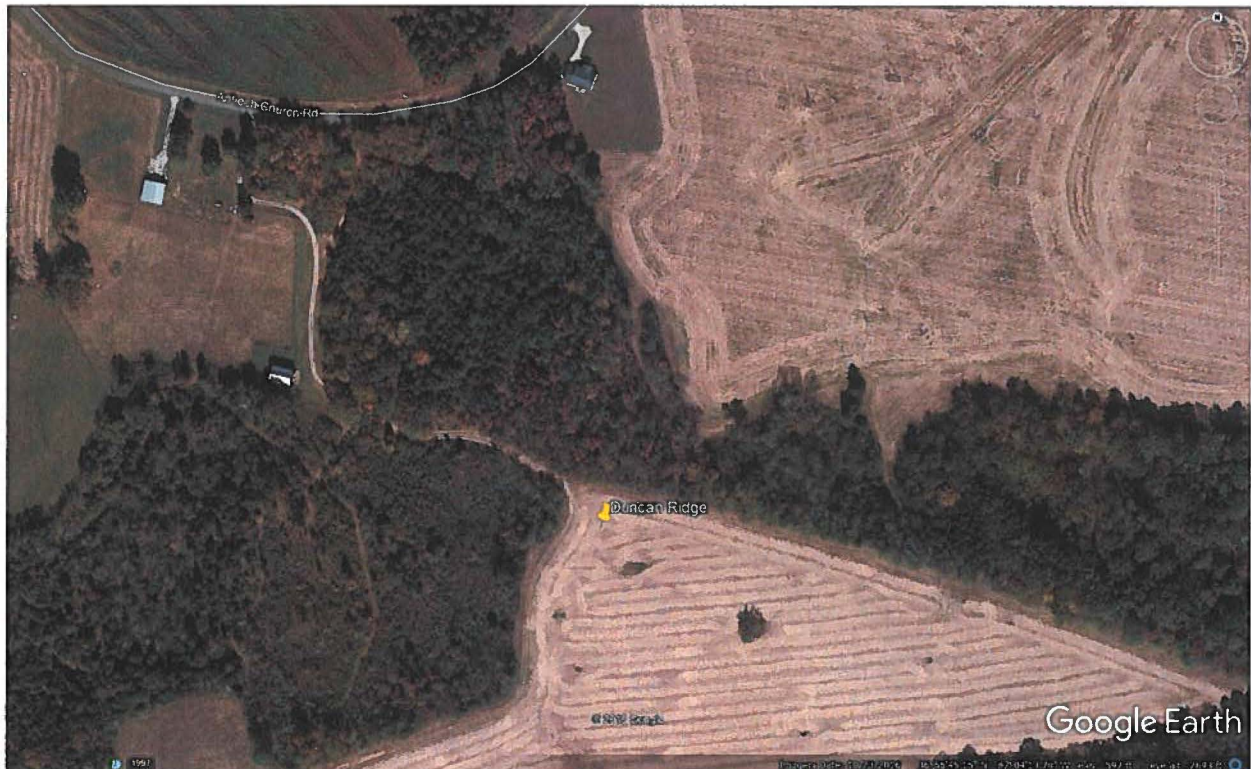
DEGREE OF WEATHERING

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

EXHIBIT H
DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at 202 E. Washington Street, Elkton, KY 42220, head west on E Washington Street toward Williams Lane and travel approximately 154 feet.
2. Turn right at the first cross street onto Williams Lane and travel approximately 394 feet.
3. Turn right onto Public Square and travel approximately 213 feet.
4. Turn right onto KY-181 N / N Main Street and travel approximately 1.5 miles.
5. Turn right onto KY-106 N and travel approximately 2.6 miles.
6. Turn right to stay on KY-106 N and travel approximately 4.5 miles.
7. Turn left onto Mt. Sharon Grove Rd. / Sharon Grove-Cliff Hill Road and travel approximately 2.6 miles
8. Turn right onto Antioch Church Road and travel approximately 0.9 miles. The site is on the right. The site coordinates are:
 - a. North 36 deg 56 min 42.51 sec
 - b. West 87° deg 04 min 14.38 sec



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Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

EXHIBIT I
COPY OF REAL ESTATE AGREEMENT

Market: Evansville
Cell Site Number: KYL03681
Cell Site Name: Duncan Ridge
Fixed Asset Number: 13800711

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 Christopher R. Kenner and Kelsie Kenner, a married couple, having a mailing address of 4741 Sharon Grove Rd., Elkton, KY 42220 ("**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 I**, together with all rights and privileges arising in connection therewith, located at Antioch Church Road, in the County of Todd, 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 I** (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 (5th) 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 (5th) 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, [REDACTED] 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 or after 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 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 Tenant and may be removed by Tenant at any time during or after the Term. Tenant will repair any damage to the Property resulting from Tenant's removal activities. Any portions of the Communication Facility that Tenant does not remove within one hundred twenty (120) days after the later of the end of the Term and cessation of Tenant's operations at the Premises shall be deemed abandoned and owned by Landlord. However, to the extent required by law, Tenant will remove the above-ground portions of the Communications Facility within such one hundred twenty (120) day period. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation.

14. MAINTENANCE/UTILITIES.

(a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. Tenant shall be responsible for repairing any damage to the Access road caused by Tenant.

(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 this Agreement or sublease the Premises and its rights herein, in whole or in part, without Landlord's consent. Upon notification to Landlord of such assignment, Tenant will be relieved of all future performance, liabilities and obligations under this Agreement to the extent of such assignment.

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 #KYL03681; Cell Site Name: Duncan Ridge (KY)
Fixed Asset No.: 13800711
575 Morosgo Drive NE
Atlanta, GA 30324

With a copy to: New Cingular Wireless PCS, LLC
Attn.: Legal Department
Re: Cell Site #: KYL03681; Cell Site Name: Duncan Ridge (KY)
Fixed Asset No.: 13800711
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: Christopher R. Kenner
4741 Sharon Grove Rd.
Elkton, KY 42220

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 #KYL03681; Cell Site Name: Duncan Ridge (KY)
Fixed Asset No: 13800711
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 APPEAR ON NEXT PAGE]

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

"LANDLORD"

Christopher R. Kenner
Christopher R. Kenner

Date: 5/9/18

Kelsie Kenner
Kelsie Kenner

Date: 5/9/18

LANDLORD ACKNOWLEDGMENT

STATE OF KENTUCKY)

) ss:

COUNTY OF TODD)

On the 9 day of May, 2018 before me, personally appeared Christopher R. Kenner and Kelsie Kenner, 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.

Jimmy L. Sloan

Notary Public: 558172

My Commission Expires: 6/2/20

"TENANT"

New Cingular Wireless PCS, LLC,
a Delaware limited liability company
By: AT&T Mobility Corporation
Its: Manager

By: Chris Tharp

Print Name: Chris Tharp

Its: Area Manager Network Engineering TNKY Site Acquisition

Date: 1/29/19

TENANT ACKNOWLEDGMENT

STATE OF Kentucky)

COUNTY OF JACKSON) ss:

On the 29 day of January, 2019, before me personally appeared Chris Tharp, and acknowledged under oath that he is the Area Manager Network Engineering – TNKY Site Acquisition 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.

[Signature]
Notary Public: 595960
My Commission Expires: 2/28/22



EXHIBIT 1

DESCRIPTION OF PREMISES

Page 1 of 3

to the Option and Lease Agreement dated January 29 2018, by and between Christopher R. Kenner and Kelsie Kenner, a married couple, as Landlord, and New Cingular Wireless PCS, L.L.C. a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

Beginning at a found steel post with a found witness iron pin at its base, Southwest corner to Crislip (Deed Book 180 Page 057 - Tract "A"); thence with the line of Crislip N 85 degrees 18' 04" E 441.58 feet to a found steel post with a found witness iron pin at its base; thence N 69 degrees 44' 02" E 194.41 feet to a found steel post with a found witness iron pin at its base; thence N 58 degrees 50' 05" E 519.12 feet to a found steel post with a found witness iron pin at its base; thence N 66 degrees 26' 41" E 273.03 feet to a found steel post with a found witness iron pin at its base; thence N 60 degrees 12' 37" E 208.28 feet to a found iron pin (#3148); thence turning left N 02 degrees 43' 39" W 213.09 feet to a found iron pin (#3148); thence N 35 degrees 47' 06" E 64.89 feet to a found steel post with a found witness iron pin at its base; thence N 20 degrees 19' 23" E 89.57 feet to a found steel post with a found witness iron pin at its base; thence N 42 degrees 06' 17" W 47.11 feet to a found iron pin (#3148); thence N 61 degrees 31' 26" W 96.73 feet to a found steel post with a found witness iron pin at its base; thence N 87 degrees 24' 05" W 177.21 feet to a post with a found witness iron pin at its base; thence N 61 degrees 42' 12" W 100.46 feet to a found steel post with a found witness iron pin at its base; thence N 78 degrees 32' 23" W 91.50

feet to a found iron pin (#3148), corner to Thomas (Deed Book 180 Page 380); thence turning right with the line of Thomas 11 degrees 27' 37" E 62.06 feet to a found iron pin (#3148), corner to Crislip (Deed Book 180 Page 057 - Tract "B"); thence turning right with the line of Crislip S 68 degrees 42' 14" E 76.77 feet to a found iron pin (#3148); thence S 76 degrees 26' 18" E 323.39 feet to a found iron pin (No I.D. Cap); thence turning left N 28 degrees 09' 08" E 44.09 feet to a found stone, corner to Sisco (Deed Book 169 Page 420); thence turning right with the line of Sisco and then Roberts (Deed Book 055 Page 199) S 76 degrees 03' 16" E 1309.90 feet to a found 24-inch diameter maple, corner to Roberts; thence turning left N 45 degrees 57' 37" E 264.00 feet to a set iron pin; thence turning right S 28 degrees 32' 23" E 99.00 feet to a set iron pin, thence S 69 degrees 32' 23" E 99.00 feet to a set iron pin, corner to Sears (Deed Book 100 Page 584); thence with the line of Sears S 60 degrees 32' 23" E 478.50 feet to a point in the Pennington Branch; thence turning right with the meanders of said branch and the line of Sears S 31 degrees 27' 37" W 148.50 feet to a point; thence S 09 degrees 27' 37" W 132.00 feet to a point ; thence S 48 degrees 27' 37" W 132.00 feet to a point; thence N 76 degrees 32' 23" W 379.50 feet to a point; thence S 42 degrees 27' 37" W 231.00 feet to a point; thence S 58 degrees 16' 08" W 274.63 feet to a point; thence turning left, leaving said branch with the line of Sears S 07 degrees 53' 11" W 473.01 feet to a found planted stone, corner to Borders (Deed Book 127 Page 580); thence turning right with the line of Borders N 68 degrees 50' 06" W 268.56 feet to a found planted stone; thence S 28 degrees 27' 37" W 99.00 feet to a point in the Pennington Branch; thence turning right with the meanders of said branch N 28 degrees 32' 23" W 99.00 feet to a point; thence N 88 degrees 32' 23" W 66.00 feet to a point; thence S 33 degrees 27' 37" W 33.00 feet to a point; thence 66 degrees 27' 37" W 99.00 feet; thence N 89 degrees 59' 36" W 58.07 feet to a point; thence S 27 degrees 53' 29" W 160.68 feet to a point; thence N 57 degrees 09' 51" W 111.62 feet to a point; thence N 84 degrees 23' 07" W 364.70 feet to a point; thence S 60 degrees 33' 24" W 179.74 feet to a point ; thence S 08 degrees 27' 37" W 82.50 feet to a point; thence S 55 degrees 03' 15" W 434.54 feet to a point; thence S 61 degrees 59' 34" W 110.61 feet to a point; thence N 61 degrees 32' 23" W 148.50 feet to a point; thence S 42 degrees 27' 37" W 99.00 feet to a point; thence N 62 degrees 32' 23" W 268.12 feet to a point; thence S 56 degrees 27' 37" W 132.00 feet to a point thence S 86 degrees 27' 37" W 247.50 feet, corner to Thomas (Deed Book 162 Page 075); thence turning right leaving said branch with the line of Thomas N 01 degrees 32' 00" E 894.02 feet to the point of beginning. Described parcel containing 80.04 acres as shown by survey performed by Jeffrey L. Harris P.L.S. #3148 with the Benchmark Land Surveying, Dated April 28, 2008.

The Premises are described and/or depicted as follows:

ALL THAT TRACT OR PARCEL OF LAND LYING IN THE COUNTY OF TODD, STATE OF KENTUCKY, CONSISTING OF A 100 FEET BY 100 FEET LEASE AREA, COMMENCING AT A FOUND IRON ROD, THAT IS 5,930 FEET SOUTHWESTERLY OF THE INTERSECTION OF ANTIOCH CHURCH ROAD AND EVERETT DUNCAN ROAD, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THENCE SOUTH 25 DEGREES 06 MINUTES 13 SECONDS WEST, A DISTANCE OF 89.62 FEET;
THENCE SOUTH 88 DEGREES 25 MINUTES 12 SECONDS EAST, A DISTANCE OF 56.18 FEET TO THE POINT OF BEGINNING;

THENCE NORTH 18 DEGREES 31 MINUTES 26 SECONDS EAST, A DISTANCE OF 100.00 FEET;
THENCE SOUTH 71 DEGREES 28 MINUTES 34 SECONDS EAST, A DISTANCE OF 100.00 FEET;
THENCE SOUTH 18 DEGREES 31 MINUTES 26 SECONDS WEST, A DISTANCE OF 100.00 FEET;
THENCE NORTH 71 DEGREES 28 MINUTES 34 SECONDS WEST, A DISTANCE OF 100.00 FEET TO THE POINT OF BEGINNING.

10,000 SQUARE FEET OR 0.2295 ACRES, MORE OR LESS

PROPOSED "A" ACCESS & UTILITY EASEMENT

ALL THAT TRACT OR PARCEL OF LAND LYING IN THE COUNTY OF TODD, STATE OF KENTUCKY, CONSISTING OF A 25 FEET WIDE ACCESS AND UTILITY EASEMENT COMMENCING AT A FOUND IRON ROD, THAT IS 5,930 FEET SOUTHWESTERLY OF THE INTERSECTION OF ANTIOCH CHURCH ROAD AND EVERETT DUNCAN ROAD, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

THENCE SOUTH 25 DEGREES 06 MINUTES 13 SECONDS WEST, A DISTANCE OF 89.62 FEET; THENCE SOUTH 88 DEGREES 25 MINUTES 12 SECONDS EAST, A DISTANCE OF 56.18 FEET;
THENCE NORTH 18 DEGREES 31 MINUTES 26 SECONDS EAST, A DISTANCE OF 50.00 FEET TO THE POINT OF BEGINNING OF A 25 FEET WIDE ACCESS AND UTILITY EASEMENT LYING 12.50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE;

THENCE NORTH 66 DEGREES 10 MINUTES 13 SECONDS WEST, A DISTANCE OF 13.82 FEET;
THENCE NORTH 04 DEGREES 01 MINUTES 19 SECONDS WEST, A DISTANCE OF 22.59 FEET;
THENCE NORTH 16 DEGREES 21 MINUTES 21 SECONDS WEST, A DISTANCE OF 42.91 FEET;
THENCE NORTH 60 DEGREES 16 MINUTES 07 SECONDS WEST, A DISTANCE OF 47.91 FEET;
THENCE NORTH 57 DEGREES 54 MINUTES 41 SECONDS WEST, A DISTANCE OF 85.23 FEET;
THENCE NORTH 75 DEGREES 22 MINUTES 45 SECONDS WEST, A DISTANCE OF 82.98 FEET;
THENCE NORTH 86 DEGREES 56 MINUTES 00 SECONDS WEST, A DISTANCE OF 91.68 FEET;
THENCE NORTH 60 DEGREES 24 MINUTES 48 SECONDS WEST, A DISTANCE OF 100.09 FEET;
THENCE NORTH 61 DEGREES 52 MINUTES 38 SECONDS WEST, A DISTANCE OF 72.33 FEET;
THENCE NORTH 40 DEGREES 39 MINUTES 57 SECONDS WEST, A DISTANCE OF 27.66 FEET TO THE POINT OF TERMINUS.

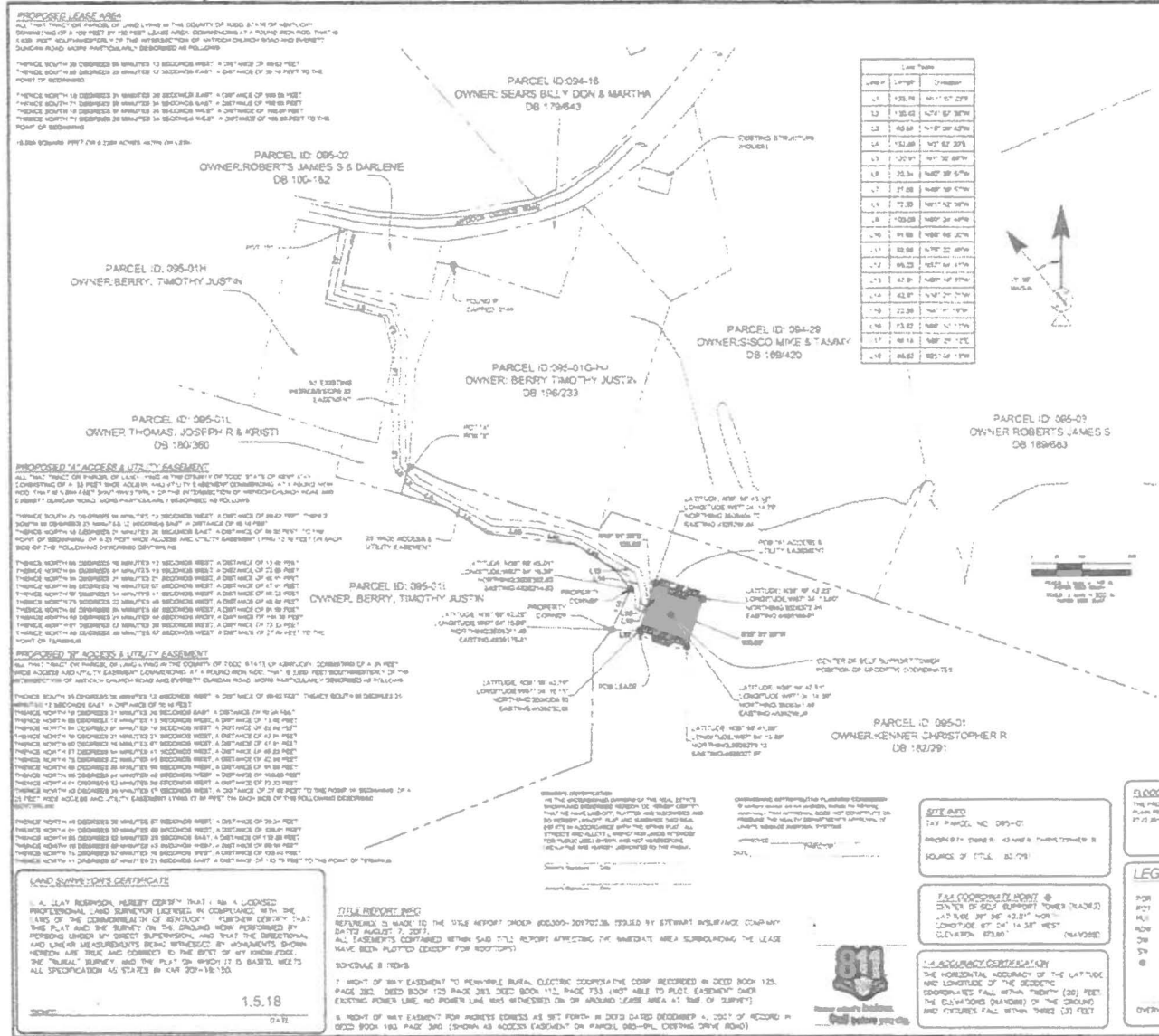
OWNE

Notes:

- 1 THIS EXHIBIT MAY BE REPLACED BY A LAND SURVEY AND/OR CONSTRUCTION DRAWINGS OF THE PREMISES ONCE RECEIVED BY TENANT.
- 2 ANY SETBACK OF THE PREMISES FROM THE PROPERTY'S BOUNDARIES SHALL BE THE DISTANCE REQUIRED BY THE APPLICABLE GOVERNMENTAL AUTHORITIES.
- 3 WIDTH OF ACCESS ROAD SHALL BE THE WIDTH REQUIRED BY THE APPLICABLE GOVERNMENTAL AUTHORITIES, INCLUDING POLICE AND FIRE DEPARTMENTS.
- 4 THE TYPE, NUMBER AND MOUNTING POSITIONS AND LOCATIONS OF ANTENNAS AND TRANSMISSION LINES ARE ILLUSTRATIVE ONLY. ACTUAL TYPES, NUMBERS AND MOUNTING POSITIONS MAY VARY FROM WHAT IS SHOWN ABOVE.

X C Lutz

X Kelvin Kemner



PROPOSED LEASE AREA
 ALL THAT TRACT OF LAND LING IN THE COUNTY OF MISSOURI...
 PARCEL ID: 094-18
 OWNER: SEARS BILLY DON & MARTHA
 DB 179643

PROPOSED UTILITY EASEMENT
 ALL THAT TRACT OF LAND LING IN THE COUNTY OF MISSOURI...
 PARCEL ID: 095-01
 OWNER: BERRY, TIMOTHY JUSTIN

BENCHMARK
 ELEVATION ESTABLISHED FROM GPS OBSERVATIONS...
BASE OF EASINGS
 BEARINGS SURFACE MEASUREMENTS MADE UPON U.S. STATE PLANE...
UTILITY NOTES
 SURVEYOR DOES NOT WARRANT THAT ALL UTILITIES ARE SHOWN...

SURVEYOR NOTES
 ALL RECORDS OF PUBLIC RECORDS HAVE BEEN CHECKED TO DETERMINE...
 THIS SURVEY IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED UTILITY EASEMENT...
 THE PROPERTY IS SUBJECT TO ANY RECORD EASEMENTS...
 THIS SURVEY PLAN WAS PERFORMED UNDER THE AUTHORITY OF MISSOURI REGISTERED SURVEYOR...
 THIS SURVEY WAS PERFORMED WITH A CARLSON BRUSH-DIAL...
 SYSTEM MONITOR AND BALL STRAIGHTENER...
 REFLECTIVE MEASUREMENTS WERE TAKEN TO DETERMINE POSITIONS OF ALL...
 TOLERANCE OF 0.04 IN ANY DIRECTION.

FLOOD INFORMATION
 THE PROPOSED LEASE AREA SHOWN HEREON IS NOT LOCATED IN A HIGH HAZARD...
LEGEND
 BENCHMARK
 POINT OF BEGINNING
 PUBLIC UTILITY EASEMENT
 RIGHT OF WAY
 CORNER
 BENCHMARK
 BEARING
 DISTANCE
 FOUND AS NOTED

at&t

MasTec

IRISH TOWER

DRAWN BY: []
 CHECKED BY: []

DATE: []
 DESCRIPTION: []

SHEET NO. []

PROJECT NO. 13900711
 SITE KYL03681
 876 N. DUNCAN BRIDGE
 876 N. DUNCAN BRIDGE
 ANTIPOCH CHURCH RD
 SHARON GROVE, MO 42280
 TODD COUNTY

SHEET TITLE
TOPOGRAPHIC SITE SURVEY

SHEET NUMBER
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 _____

Christopher R. Kenner
4741 Sharon Grove Rd.
Elkton, KY 42220

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

Prepared by and Return to:
Blue Wave Deployment
Attn: Dustin Billman
13804 Lake Point Circle, Unit 101
Louisville, KY 40223

Cell Site No.: KYL03681
Cell Site Name: Duncan Ridge
County: Todd

EASEMENT AGREEMENT

This Easement Agreement is made as of the 29 day of January, 2018¹⁹, by and between Joseph R. Thomas and Kristi Thomas, husband and wife ("Grantor"), and NEW CINGULAR WIRELESS PCS LLC, a Delaware limited liability company ("Grantee"), which parties, for and in consideration the mutual agreements and undertakings herein contained, receipt and sufficiency of which valuable consideration is hereby acknowledged, do hereby agree to be bound as follows:

1. **RECITALS.** Grantor is the owner of that certain parcel of land located in Todd County, Kentucky, described in the instrument of record in Book 180, Page 380, County Clerk's Office for Todd County, Kentucky, and being known as tax map parcel 095-01L (the "Property"). Grantee leases certain rights and real property from Christopher R. Kenner and Kelsie Kenner ("Landlord") pursuant to an Option and Lease Agreement, dated January 29, 2018¹⁹ ("Lease"), for the operation of radio antenna facility for wireless communications.

2. **GRANT OF EASEMENT.** Grantor hereby grants and conveys to Grantee, its successors and assigns, a nonexclusive easement for the right of access, for ingress and egress, and the installation, use, repair, replacement, inspection and maintenance of utilities, over and through a portion of Grantor's Property, as more fully described in Exhibit A, attached hereto and incorporated herein (the "Easement"), for so long as the Lease is in effect. The Easement granted herein, may be used to provide any utility services necessary for the operation of the radio antenna facility by Grantee and/or any other tenants, subtenants or licensees of Grantee or Landlord. Grantor reserves the right to reroute the Easement, at Grantor's own expense, as long as Grantor does not interrupt the utilities to the Grantee's communications system, block access to the communications system or increase the grade. Grantee will have such access twenty-four hours per day, seven days per week. Grantee to keep and maintain access road in good condition.

3. **PAYMENTS.** Grantee agrees to pay Grantor a one time payment of [REDACTED] within thirty (30) days after Grantee's execution of this [REDACTED]

Agreement. Payments shall be made to the address as shown below.

4. **TERM.** The Easement as herein granted herein shall continue for the term of the Lease, and any extensions, options, renewals, replacements or revisions of the Lease (the "Term"). The initial term of the Lease is five (5) years from the Commencement Date as defined therein, and there are options to extend the term for four (4) additional consecutive five (5) year periods, as well as the right of the parties to further extend the Term by agreement. The Easement shall be continuous and irrevocable, shall be appurtenant to Grantee's interest in the property described in the Lease, and shall run with the land and be binding upon Grantor, and Grantor's successors and assigns, during the entire Term. Upon the end of the Term, the Grantee agrees to execute such documents as the Grantor may reasonably request to confirm the termination. Grantee shall have the right to terminate the Easement upon ninety (90) days written notice to the Grantor at any time from the date of this Agreement for failure to comply with any of the terms or conditions contained herein.

5. **NO PUBLIC USE DEDICATION.** Nothing contained in this Agreement will be deemed to be a dedication of any portion of the Easement to the general public or for the general public or for any public purpose whatsoever, it being the intention that this Agreement will be strictly limited to and for the purposes set forth herein.

6. **INDEMNITY.** Grantee shall indemnify and hold Grantor harmless against any liability or loss from personal injury or property damage resulting from or arising out of the use or occupancy of the Easement by Grantee or its employees or agents, except to the extent due to or caused by the act or omissions of the Grantor or its employees or agents.

7. **NOTICES.** All notices required or permitted hereunder must be in writing and are effective only when deposited in the U. S. Mail, certified and postage prepaid, or when sent via overnight delivery to the following addresses (or such other address as the parties may designate and provide notice of in writing in accordance with the terms and provisions of this paragraph). Notice shall be deemed given upon receipt or upon refusal to accept delivery.

If to Grantee:

New Cingular Wireless PCS, LLC
Attn: AT&T Network Real Estate Administration
Re: Cell Site #: KYL03681; Cell Site Name: Duncan Ridge (KY)
Fixed Asset No: 13800711
575 Morosgo Drive
Atlanta, GA 30324

With a copy to:

New Cingular Wireless PCS, LLC
Attn.: AT&T Legal Department
Re: Cell Site #: KYL03681; Cell Site Name: Duncan Ridge (KY)
Fixed Asset No: 13800711
208 S. Akard Street
Dallas, TX 75202-4206

If to Grantor:

Joseph R. Thomas

1008 White Rd.
Sharon Grove, KY 42280

8. Grantor warrants that they are the owners of the Property occupied by the Easement herein granted, and that Grantor has the right to make this conveyance. Grantor warrants and represents that they have no knowledge of the existence of past or present production, storage, treatment or disposal of any toxic or hazardous waste or substance, or of hazardous/toxic waste contamination conditions applicable to the Easement or the Property. Grantee shall not be held liable to Grantor, or its assigns, for any hazardous materials found on or about the Easement or the Property unless the hazardous materials were brought onto the Easement or Property by Grantee. Grantor will be solely liable for the clean-up and removal of hazardous substances and the restoration of the Property related to such hazardous substances, except to the extent generated by Grantee's operations. Grantor will defend, indemnify and hold harmless Grantee from and against any and all liabilities, damages, losses, costs, assessments, penalties, fines, expenses and fees, including reasonable attorneys' fees, related to Grantor's breach of any of the above representations and warranties. This indemnity specifically includes costs, expenses, and fees incurred by Grantee in connection with any investigation of Property conditions or clean-up, removal or restoration of the Property related to hazardous materials required by any governmental authority. This indemnification will survive the termination of this Agreement.

9. NOTWITHSTANDING ANY PROVISION OF THIS AGREEMENT TO THE CONTRARY, IN NO EVENT SHALL EITHER PARTY BE LIABLE TO THE OTHER PARTY FOR ANY SPECIAL, INCIDENTAL, INDIRECT, PUNITIVE, RELIANCE OR CONSEQUENTIAL DAMAGES, WHETHER FORESEEABLE OR NOT, OCCASIONED BY ANY CAUSE WHATSOEVER, INCLUDING, WITHOUT LIMITATION, BREACH OF CONTRACT, BREACH OF WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

10. ENTIRE AGREEMENT. This Easement Agreement contains the entire agreement of the parties as to these matters, and any other discussions or writings are merged herein. This Agreement may only be amended by a writing signed by each of the parties, and shall not be amended orally, or by conduct, waiver or estoppel. Time is of the essence under this Agreement.

[SIGNATURES APPEAR ON NEXT PAGE]

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

GRANTOR:

Joseph R. Thomas
Joseph R. Thomas

Kristi Thomas
Kristi Thomas

GRANTEE:

~~NEW CINGULAR WIRELESS PCS LLC
a Delaware limited liability company
By: AT&T Mobility Corporation
Its: Manager~~

~~By: _____
Print Name: Bryan Coleman
Its: Area Manager Network Engineering Gulf States/ TNKY Site Acquisition~~

STATE OF KENTUCKY)
) ss:
COUNTY OF)

Personally appeared before me, a Notary Public in and for the above jurisdiction, the within named Joseph R. Thomas and Kristi Thomas, with whom I am personally acquainted (or who was identified to me on the basis of satisfactory evidence), who after being first duly sworn, acknowledged that they were the within named bargainors, and that they executed the foregoing Easement Agreement for the purposes therein contained.

Witness my hand and seal, this the 7 day of September, 2018.

NOTARY PUBLIC: *Amanda J Hall*
My Commission Expires: 6-23-21
Notary ID - 581716



STATE OF ALABAMA)
) ss:
COUNTY OF JEFFERSON)

On the ____ day of _____, 2018, before me personally appeared Bryan Coleman, and acknowledged under oath that he is the Area Manager Network Engineering – Gulf States/TNKY Site Acquisition 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.

Notary Public: _____
My Commission Expires: _____

"GRANTEE"

New Cingular Wireless PCS, LLC,
a Delaware limited liability company
By: AT&T Mobility Corporation
Its: Manager

By: 

Print Name: Chris Tharp

Its: Area Manager Network Engineering TNKY Site Acquisition

Date: 1/29/19

GRANTEE ACKNOWLEDGMENT

STATE OF Kentucky)

COUNTY OF Jackson) ss:

On the 29 day of January, 2019, before me personally appeared Chris Tharp, and acknowledged under oath that he is the Area Manager Network Engineering - TNKY Site Acquisition 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.


Notary Public: 595960

My Commission Expires: 2/28/22



EXHIBIT "A"

Being an easement, across Grantor's Property, located in Todd County, Kentucky, and being more specifically described as follows:

All that tract or parcel of land lying in the County of Todd, State of Kentucky, consisting of a 25 feet wide access and utility easement commencing at a found iron rod, that is 5,930 feet Southwesterly of the intersection of Antioch Church Road and Everett Duncan Road, more particularly described as follows:

Thence South 25 Degrees 06 Minutes 13 Seconds West, a distance of 89.62 feet;
Thence South 88 Degrees 25 Minutes 12 Seconds East, a distance of 56.18 feet;
Thence North 18 Degrees 31 Minutes 26 Seconds East, a distance of 50.00 feet;
Thence North 66 Degrees 10 Minutes 13 Seconds West, a distance of 13.82 feet;
Thence North 04 Degrees 01 Minutes 19 Seconds West, a distance of 22.59 feet;
Thence North 16 Degrees 21 Minutes 21 Seconds West, a distance of 42.91 feet;
Thence North 60 Degrees 16 Minutes 07 Seconds West, a distance of 47.91 feet;
Thence North 57 Degrees 54 Minutes 41 Seconds West, a distance of 85.23 feet;
Thence North 75 Degrees 22 Minutes 45 Seconds West, a distance of 82.98 feet;
Thence North 86 Degrees 56 Minutes 00 Seconds West, a distance of 91.68 feet;
Thence North 60 Degrees 24 Minutes 48 Seconds West, a distance of 100.09 feet;
Thence North 61 Degrees 52 Minutes 38 Seconds West, a distance of 72.33 feet;
Thence North 40 Degrees 39 Minutes 57 Seconds West, a distance of 27.66 feet to the point of beginning of a 25 feet wide access and utility easement lying 12.50 feet on each side of the following described centerline;

Thence North 40 Degrees 39 Minutes 57 Seconds West, a distance of 20.34 feet;
Thence North 01 Degrees 30 Minutes 09 Seconds West, a distance of 120.91 feet;
Thence North 03 Degrees 02 Minutes 20 Seconds East, a distance of 132.86 feet;
Thence North 19 Degrees 09 Minutes 43 Seconds West, a distance of 60.58 feet;
Thence North 74 Degrees 57 Minutes 36 Seconds West, a distance of 120.42 feet;
Thence North 11 Degrees 57 Minutes 23 Seconds East, a distance of 133.78 feet to the point of terminus.

EXHIBIT J
NOTIFICATION LISTING

Notification List

SEARS GAIL & MELVA
1349 CRAWFORD RD
SHARON GROVE, KY 42280

BORDERS JARRELL ADRAIN
824 CRAWFORD ROAD
SHARON GROVE, KY 42280

BERRY TIMOTHY JUSTIN
665 Antioch Church Road
SHARON GROVE, KY 42280

KENNER CHRISTOPHER R
4741 SHARON GROVE RD
ELKTON, KY 42220

KENNER CHRISTOPHER R & KELSIE
4741 SHARON GROVE RD
ELKTON, KY 42220

ROBERTS JAMES S & DARLENE
1307 SNOW MOUNTAIN CIRCLE
KELLER, TX 76248 3224

ROBERTS JAMES S
1307 SNOW MOUNTAIN CIRCLE
KELLER, TX 76248

SEARS BILLY DON & MARTHA
2690 SPA ROAD
LEWISBURG, KY 42256

SISCO MIKE & TAMMY
1301 ANTIOCH CHURCH RD
SHARON GROVE, KY 42280

THOMAS JOSEPH R & KRISTI
1008 WHITE RD
SHARON GROVE, KY 42280

WILES FAMILY PARTNERSHIP
5701 SHARON GROVE RD
ELKTON, KY 42220

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: Duncan Ridge**

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at Antioch Church Road, Sharon Grove, KY 42280 (36° 56' 42.51" North latitude, 87° 04' 14.38" 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 2019-00244 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

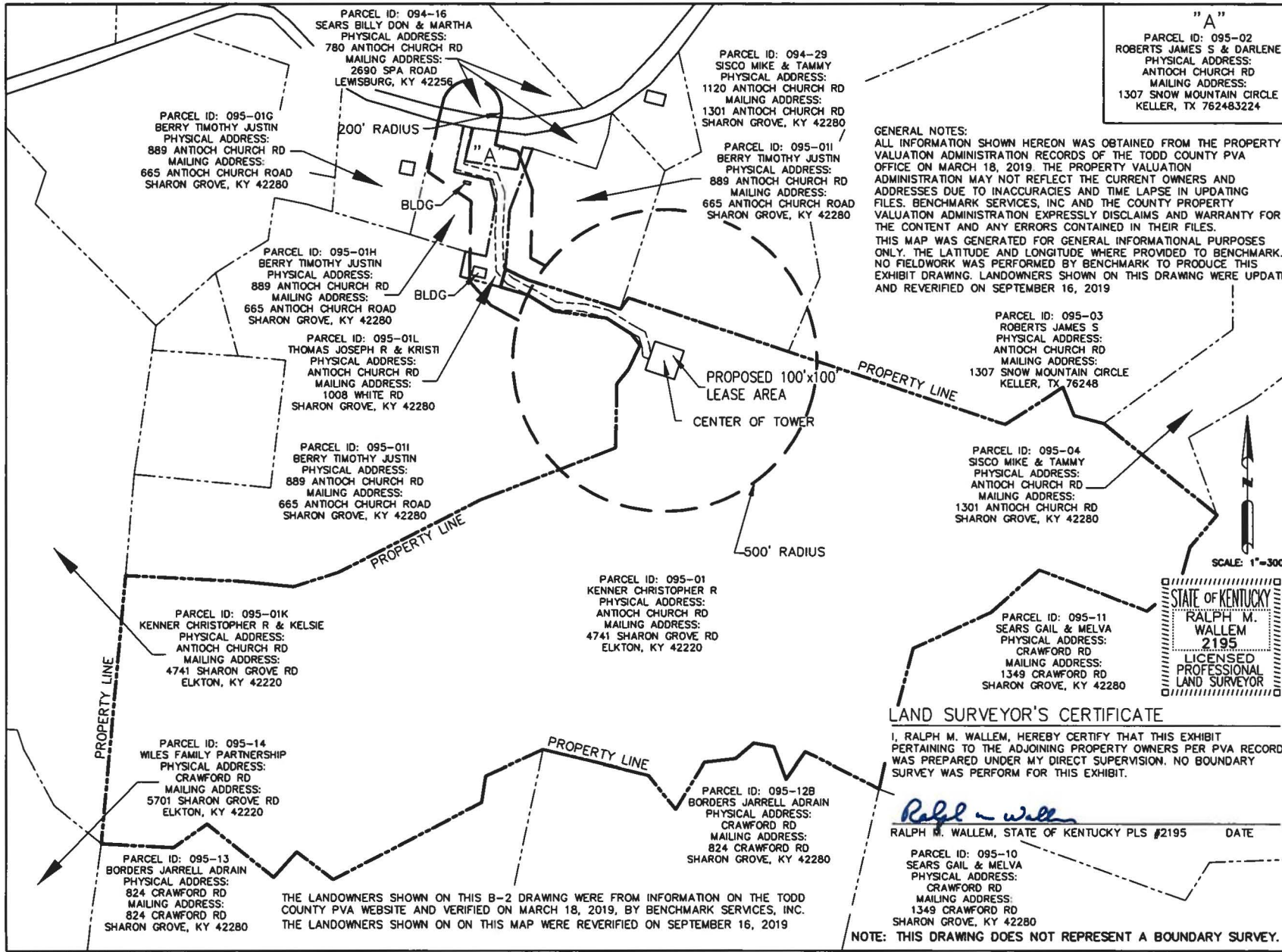
enclosure

Driving Directions to Proposed Tower Site

1. Beginning at 202 E. Washington Street, Elkton, KY 42220, head west on E Washington Street toward Williams Lane and travel approximately 154 feet.
2. Turn right at the first cross street onto Williams Lane and travel approximately 394 feet.
3. Turn right onto Public Square and travel approximately 213 feet.
4. Turn right onto KY-181 N / N Main Street and travel approximately 1.5 miles.
5. Turn right onto KY-106 N and travel approximately 2.6 miles.
6. Turn right to stay on KY-106 N and travel approximately 4.5 miles.
7. Turn left onto Mt. Sharon Grove Rd. / Sharon Grove-Cliff Hill Road and travel approximately 2.6 miles
8. Turn right onto Antioch Church Road and travel approximately 0.9 miles. The site is on the right. The site coordinates are:
 - a. North 36 deg 56 min 42.51 sec
 - b. West 87° deg 04 min 14.38 sec



Prepared by:
Chris Shouse
Pike Legal Group
1578 Highway 44 East, Suite 6
P.O. Box 396
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293



"A"
 PARCEL ID: 095-02
 ROBERTS JAMES S & DARLENE
 PHYSICAL ADDRESS:
 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 1307 SNOW MOUNTAIN CIRCLE
 KELLER, TX 762483224

GENERAL NOTES:
 ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE PROPERTY VALUATION ADMINISTRATION RECORDS OF THE TODD COUNTY PVA OFFICE ON MARCH 18, 2019. THE PROPERTY VALUATION ADMINISTRATION MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO INACCURACIES AND TIME LAPSE IN UPDATING FILES. BENCHMARK SERVICES, INC AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS AND WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES. THIS MAP WAS GENERATED FOR GENERAL INFORMATIONAL PURPOSES ONLY. THE LATITUDE AND LONGITUDE WERE PROVIDED TO BENCHMARK. NO FIELDWORK WAS PERFORMED BY BENCHMARK TO PRODUCE THIS EXHIBIT DRAWING. LANDOWNERS SHOWN ON THIS DRAWING WERE UPDATED AND REVERIFIED ON SEPTEMBER 16, 2019

PREPARED FOR:

PREPARED FOR:

BENCHMARK SERVICES, INC.
 Consulting Engineers
 Land Surveyors
 318 North Main Street
 Huntingburg, IN 47542
 (812) 683-3049
 benchmark@mw.twcba.com

SITE INFORMATION:

SITE NUMBER:
 KYL03681

SITE NAME:
 DUNCAN RIDGE

SITE ADDRESS:
 ANTIOCH CHURCH ROAD
 SHARON GROVE, KY 42280
 TODD COUNTY

TAX PARCEL NUMBER:
 095-01

PROPERTY OWNER:
 CHRISTOPHER R KENNER
 4741 SHARON GROVE RD
 ELKTON, KY 42220

SOURCE OF TITLE:
 DEED BOOK 182
 PAGE 291

LATITUDE: 36° 56' 42.51" N
 LONGITUDE: 87° 04' 14.38" W

DWG BY:	CHKD BY:	DATE:
GVW	RMW	2.12.19

REV:	REVISION:	DATE:
1.	PER REVIEW	5.30.19
2.	PIKE REQUEST	9.11.19
	FINAL	
3.	FINAL	9.16.19

STATE OF KENTUCKY
 RALPH M. WALLEM
 2195
 LICENSED PROFESSIONAL LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE

I, RALPH M. WALLEM, HEREBY CERTIFY THAT THIS EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS PER PVA RECORD WAS PREPARED UNDER MY DIRECT SUPERVISION. NO BOUNDARY SURVEY WAS PERFORM FOR THIS EXHIBIT.

Ralph M. Wallem
 RALPH M. WALLEM, STATE OF KENTUCKY PLS #2195 DATE

PARCEL ID: 095-10
 SEARS GAIL & MELVA
 PHYSICAL ADDRESS:
 CRAWFORD RD
 MAILING ADDRESS:
 1349 CRAWFORD RD
 SHARON GROVE, KY 42280

THE LANDOWNERS SHOWN ON THIS B-2 DRAWING WERE FROM INFORMATION ON THE TODD COUNTY PVA WEBSITE AND VERIFIED ON MARCH 18, 2019, BY BENCHMARK SERVICES, INC. THE LANDOWNERS SHOWN ON ON THIS MAP WERE REVERIFIED ON SEPTEMBER 16, 2019

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

LAND SURVEYOR NOTE:
 THIS DRAWING REPRESENTS AND EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS. NO SURVEY WAS COMPLETED ON THE PARENT PARCEL BY BENCHMARK SERVICES, INC.

SHEET TITLE:
 500' RADIUS
 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

Hon. Todd Mansfield
County Judge Executive
P. O. Box 355
Elkton, KY 42220

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2019-00244
Site Name: Duncan 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 Antioch Church Road, Sharon Grove, KY 42280 (36° 56' 42.51" North latitude, 87° 04' 14.38" 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 2019-00244 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. AT&T Mobility'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.

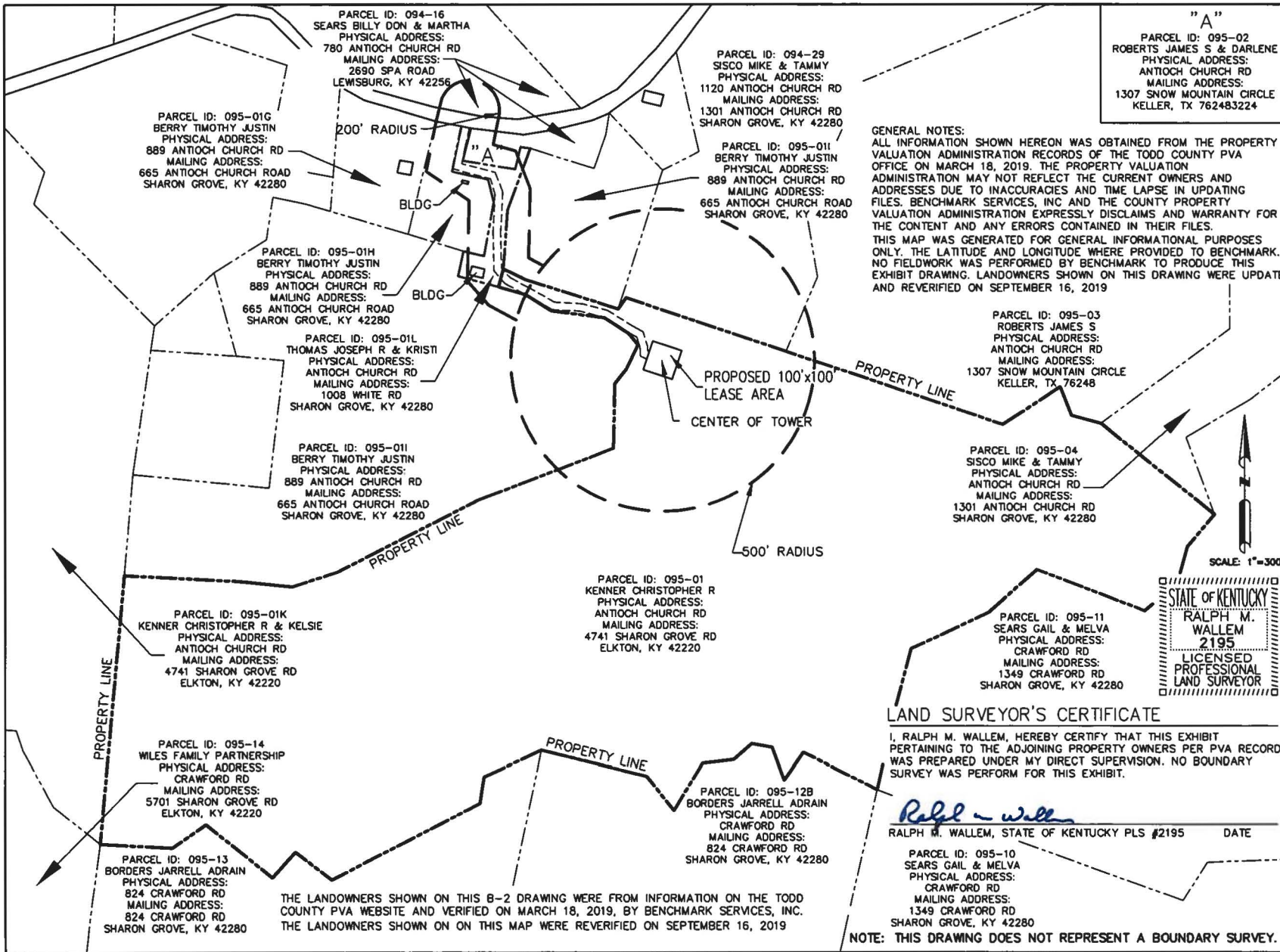
Sincerely,
David A. Pike
Attorney for Applicant
enclosures

Driving Directions to Proposed Tower Site

1. Beginning at 202 E. Washington Street, Elkton, KY 42220, head west on E Washington Street toward Williams Lane and travel approximately 154 feet.
2. Turn right at the first cross street onto Williams Lane and travel approximately 394 feet.
3. Turn right onto Public Square and travel approximately 213 feet.
4. Turn right onto KY-181 N / N Main Street and travel approximately 1.5 miles.
5. Turn right onto KY-106 N and travel approximately 2.6 miles.
6. Turn right to stay on KY-106 N and travel approximately 4.5 miles.
7. Turn left onto Mt. Sharon Grove Rd. / Sharon Grove-Cliff Hill Road and travel approximately 2.6 miles
8. Turn right onto Antioch Church Road and travel approximately 0.9 miles. The site is on the right. The site coordinates are:
 - a. North 36 deg 56 min 42.51 sec
 - b. West 87° deg 04 min 14.38 sec



Prepared by:
Chris Shouse
Pike Legal Group
1578 Highway 44 East, Suite 6
P.O. Box 396
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293



"A"
 PARCEL ID: 095-02
 ROBERTS JAMES S & DARLENE
 PHYSICAL ADDRESS:
 ANTIOCH CHURCH RD
 MAILING ADDRESS:
 1307 SNOW MOUNTAIN CIRCLE
 KELLER, TX 762483224

GENERAL NOTES:
 ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE PROPERTY VALUATION ADMINISTRATION RECORDS OF THE TODD COUNTY PVA OFFICE ON MARCH 18, 2019. THE PROPERTY VALUATION ADMINISTRATION MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO INACCURACIES AND TIME LAPSE IN UPDATING FILES. BENCHMARK SERVICES, INC AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS AND WARRANTS FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES. THIS MAP WAS GENERATED FOR GENERAL INFORMATIONAL PURPOSES ONLY. THE LATITUDE AND LONGITUDE WERE PROVIDED TO BENCHMARK. NO FIELDWORK WAS PERFORMED BY BENCHMARK TO PRODUCE THIS EXHIBIT DRAWING. LANDOWNERS SHOWN ON THIS DRAWING WERE UPDATED AND REVERIFIED ON SEPTEMBER 16, 2019

STATE OF KENTUCKY
 RALPH M. WALLEM
 2195
 LICENSED
 PROFESSIONAL
 LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE

I, RALPH M. WALLEM, HEREBY CERTIFY THAT THIS EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS PER PVA RECORD WAS PREPARED UNDER MY DIRECT SUPERVISION. NO BOUNDARY SURVEY WAS PERFORM FOR THIS EXHIBIT.

Ralph M. Wallem
 RALPH M. WALLEM, STATE OF KENTUCKY PLS #2195 DATE

PARCEL ID: 095-10
 SEARS GAIL & MELVA
 PHYSICAL ADDRESS:
 CRAWFORD RD
 MAILING ADDRESS:
 1349 CRAWFORD RD
 SHARON GROVE, KY 42280

NOTE: THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

PREPARED FOR:

PREPARED FOR:

BENCHMARK SERVICES, INC.
 Consulting Engineers
 Land Surveyors
 318 North Main Street
 Huntingburg, IN 47542
 (812) 683-3049
 benchmark@mw.tbcb.com

SITE INFORMATION:

SITE NUMBER:
 KYL03681

SITE NAME:
 DUNCAN RIDGE

SITE ADDRESS:
 ANTIOCH CHURCH ROAD
 SHARON GROVE, KY 42280
 TODD COUNTY

TAX PARCEL NUMBER:
 095-01

PROPERTY OWNER:
 CHRISTOPHER R KENNER
 4741 SHARON GROVE RD
 ELKTON, KY 42220

SOURCE OF TITLE:
 DEED BOOK 182
 PAGE 291

LATITUDE: 36° 56' 42.51" N
 LONGITUDE: 87° 04' 14.38" W

DWG BY: GVW	CHKD BY: RMW	DATE: 2.12.19
REV:	REVISION:	DATE:
1.	PER REVIEW	5.30.19
2.	PIKE REQUEST FINAL	9.11.19
3.	FINAL	9.16.19

LAND SURVEYOR NOTE:
 THIS DRAWING REPRESENTS AND EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS. NO SURVEY WAS COMPLETED ON THE PARENT PARCEL BY BENCHMARK SERVICES, INC.

SHEET TITLE:
 500' RADIUS
 ABUTTERS MAP

SHEET NUMBER:
 B-2

THE LANDOWNERS SHOWN ON THIS B-2 DRAWING WERE FROM INFORMATION ON THE TODD COUNTY PVA WEBSITE AND VERIFIED ON MARCH 18, 2019, BY BENCHMARK SERVICES, INC. THE LANDOWNERS SHOWN ON ON THIS MAP WERE REVERIFIED ON SEPTEMBER 16, 2019

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

SITE NAME: DUNCAN 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
_____ 2019-00244 _____ 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
_____ 2019-00244 _____ in your correspondence.

VIA TELEPHONE: (270) 878-0235

Todd County Standard

Attn: Legal Notice Ad

RE: Legal Notice Advertisement
Site Name: Duncan Ridge

Dear Ad Department:

Please publish the following legal notice advertisement in the next edition of *Todd County Standard*:

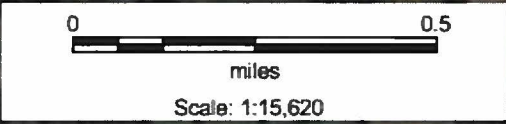
NOTICE

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 on Antioch Church Road, Sharon Grove, KY 42280 (36° 56' 42.51" North latitude, 87° 04' 14.38" 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 2019-00244 in any correspondence sent in connection with this matter.

After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to 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,
Wesley P. Shines
Pike Legal Group, PLLC

EXHIBIT N
COPY OF RADIO FREQUENCY DESIGN SEARCH AREA



Lat: 36.94217
Lon: -87.063014
Radius: .5 miles

Duncan Ridge Search Area