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PUBLIC SERVICE COMMISSION

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

In the Matter of:

THE APPLICATION OF)	
NEW CINGULAR WIRELESS PCS, LLC,)	
A DELAWARE LIMITED LIABILITY COMPANY,)	
D/B/A AT&T MOBILITY)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC	)	CASE NO.: 2020-00120
CONVENIENCE AND NECESSITY TO CONSTRUCT)	
A WIRELESS COMMUNICATIONS FACILITY)	
IN THE COMMONWEALTH OF KENTUCKY)	
IN THE COUNTY OF GRAYSON)	

SITE NAME: ANNETA ROAD

**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 in a lease area that has been assigned the E911 address of 7030 Anneta Road, Leitchfield, KY 42754 (37° 24' 17.81" North latitude, 86° 14' 17.13" West longitude), on a parcel of land located at 6918 Anneta Road, Leitchfield, KY 42754 and entirely within the county referenced in the caption of this application. The property on which the WCF will be located is owned by Perry and Freida Alexander pursuant to a Deed recorded at Deed Book 358, Page 469 in the office of the County Clerk. The proposed WCF will consist of a 150-foot tall tower, with an approximately 6-foot tall lightning arrestor attached at the top, for a total height of 156-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 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 Sean Sheehan 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 in character. The tower will be located on a large agricultural parcel.

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.

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: Bradenburg 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

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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 GLASCOW 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)	0	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)	0	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)	0	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)	0	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)	0	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)	0	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

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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 OWENBORO 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 KNLG209	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 04-12-2017	Effective Date 08-31-2018	Expiration Date 04-28-2027	Print Date
Market Number BTA263	Channel Block D	Sub-Market Designator 0	
Market Name Louisville, KY			
1st Build-out Date 04-28-2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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: KNLG209

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 WPOI255	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 05-27-2015	Effective Date 08-31-2018	Expiration Date 06-23-2025	Print Date
Market Number MTA026	Channel Block A	Sub-Market Designator 19	
Market Name Louisville-Lexington-Evansville			
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.

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPOI255

File Number:

Print Date:

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

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

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

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPOI255

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 WQDI528	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 08-17-2015	Effective Date 08-31-2018	Expiration Date 09-06-2025	Print Date
Market Number BTA263	Channel Block C	Sub-Market Designator 7	
Market Name Louisville, KY			
1st Build-out Date 09-06-2010	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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: WQDI528

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, **WIB 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 WQGD757	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 BEA070	Channel Block C	Sub-Market Designator 0	
Market Name Louisville, KY-IN			
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: WQGD757

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.

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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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Reference Copy

EXHIBIT B

SITE DEVELOPMENT PLAN:

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

VICINITY MAP



DRIVING DIRECTIONS

GRAYSON COUNTY CLERKS OFFICE
10 PUBLIC SQUARE, LEITCHFIELD, KY 42754

- HEAD EAST TOWARD PUBLIC SQUARE 446 FT
- EXIT THE TRAFFIC CIRCLE ONTO S MAIN ST
PASS BY SUBWAY (ON THE LEFT IN 0.8 MI) 1.1 MI
- CONTINUE ONTO KY-259 S/ANNETA RD 6.0 MI
- THE DESTINATION WILL BE ON THE LEFT

BUILDING CODES AND STANDARDS

CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION FOR THE LOCATION.

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE 318
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION TIA-222
- STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND SUPPORTING STRUCTURES TIA-601
- COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
- INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS IEEE-81, IEEE 1100, IEEE C62.41
- ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION
- 2014 KBC
- 2014 NEC

FOR ANY CONFLICTS BETWEEN SECTIONS OF LISTED CODES AND STANDARDS, THE MOST RESTRICTIVE REQUIREMENT SHALL GOVERN.

SITE NAME:

ANNETA RD

FA #:

14636401

PROPOSED RAW LAND SITE WITH A 150' MONOPOLE
WITH A 6' LIGHTNING ARRESTOR
AND INSTALLATION OF A 80"x80" VERTIV WIC ON A 10'x17' PAD
WITH A GENERAC 30KW GENERATOR

PREPARED FOR:



PREPARED BY:



TOGETHER PLANNING A BETTER TOMORROW
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
TEL: 205-252-6985 FAX: 205-320-1504

PROJECT INFORMATION

SITE ADDRESS: 7030 ANNETA ROAD
LEITCHFIELD, KY 42754

LATITUDE (NAD 83): N 37° 24' 17.814"
LONGITUDE (NAD 83): W -86° 14' 17.134"

LATITUDE (NAD DECIMAL): N 37.404948°
LONGITUDE (NAD DECIMAL): W -86.238093°

PARCEL ID: 104-00-00-008

JURISDICTION: KENTUCKY PUBLIC SERVICE COMMISSION

PROPERTY OWNER: ALEXANDER PERRY & FREIDA

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

ENGINEER: SMW ENGINEERING
158 BUSINESS CENTER DRIVE
BIRMINGHAM, AL 35244
CONTACT: JEREMY SHARIT, PE
PHONE: 205-397-6781

POWER: WARREN RURAL ELECTRIC CO

FIBER: FIBER COMPANY AWARDED BY AT&T AT FUTURE TIME, CONSULT CM

DRAWING INDEX

T-1	TITLE SHEET & PROJECT INFORMATION
--	SURVEY (SHEET 1)
--	SURVEY (SHEET 2)
--	SURVEY (SHEET 3)
B-1	500' RADIUS AND ABUTTERS MAP
C-1	OVERALL SITE LAYOUT
C-2	OVERALL SITE LAYOUT - CONT'D
C-3	ENLARGED COMPOUND LAYOUT
C-4	TOWER ELEVATION & ANTENNA ORIENTATION

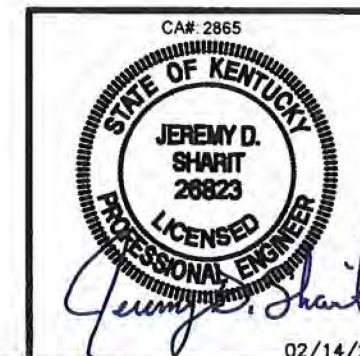
SCOPE OF WORK

CONSTRUCTION DRAWINGS FOR:
CONSTRUCTION OF A NEW UNMANNED TELECOMMUNICATIONS FACILITY.

SITE WORK: NEW TOWER UNMANNED 80"x80" VERTIV WIC & GENERAC 30KW GENERATOR ON A CONCRETE PAD AND UTILITY INSTALLATIONS.



KENTUCKY ONE-CALL
STATE WIDE CALL 811
CALL BEFORE YOU DIG



SMW # 19-1552



#	DATE	DESCRIPTION
0	11/15/19	ISSUED FOR CLIENT REV.
1	12/16/19	REISSUED FOR CLIENT REV.
2	02/14/20	ISSUED FOR CONSTRUCTION

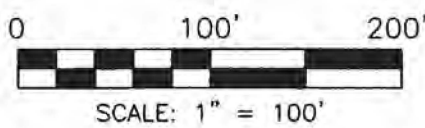
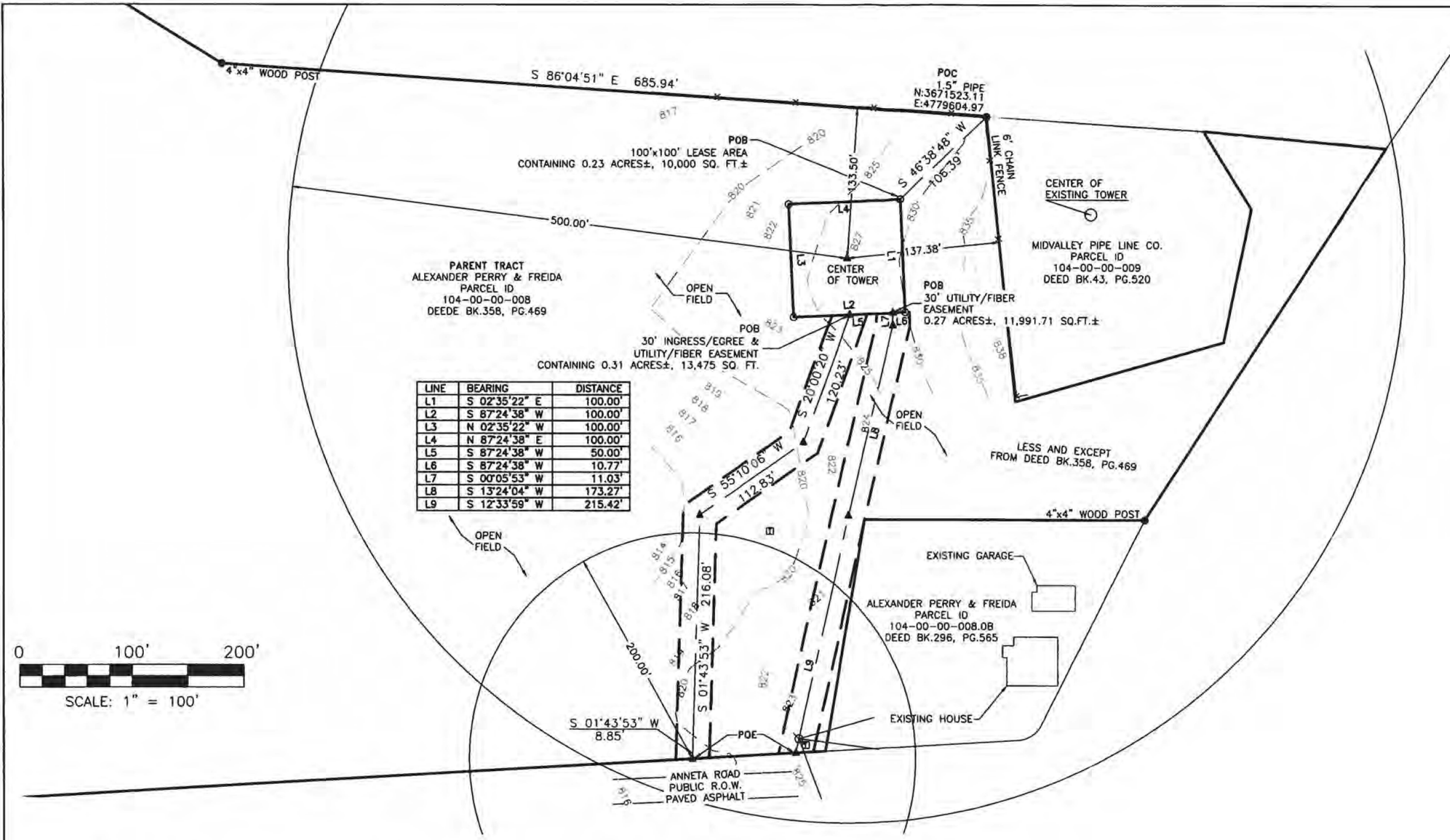
ANNETA RD
TITLE SHEET &
PROJECT INFORMATION

DESIGNED: JDS
DRAWN: BMD
CHECKED: RTB

JOB #: 14636401

T-1

02/14/20

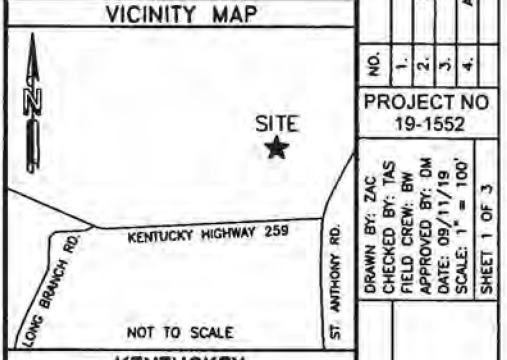


SURVEYOR'S NOTES

1. This is a Rawland Tower Survey, made on the ground under the supervision of a Kentucky Registered Land Surveyor. Date of field survey is August 7, 2019.
2. The following surveying instruments were used at time of field visit: Topcon DM55 Total Station, Reflectorless and Hiper SR RTK Network Rover with static capability.
3. Bearings are based on Kentucky State Plane Coordinates NAD 83 by GPS observation.
4. No underground utilities, underground encroachments or building foundations were measured or located as a part of this survey, unless otherwise shown. Trees and shrubs not located, unless otherwise shown.
5. Benchmark used is a GPS Continuously Operating Reference Station, PID DK7559. Onsite benchmark is as shown hereon. Elevations shown are in feet and refer to NAVD 88.
6. This survey was conducted for the purpose of a Rawland Tower Survey only, and is not intended to delineate the regulatory jurisdiction of any federal, state, regional or local agency, board, commission or other similar entity.
7. Attention is directed to the fact that this survey may have been reduced or enlarged in size due to reproduction. This should be taken into consideration when obtaining scaled data.
8. This Survey was conducted with the benefit of an Abstract Title search.
9. This survey meets or exceeds the Minimum Standards of Practice as required by the State of Kentucky for a Class A survey as defined by 201 KAR 18:150.
10. Survey shown hereon conforms to the Minimum Requirements as set forth by the State Board for a Class "A" Survey.
11. Field data upon which this map or plat is based has a closure precision of not less than one-foot in 15,000 feet (1":15,000') and an angular error that does not exceed 10 seconds times the square root of the number of angles turned. Field traverse was not adjusted.
12. This survey is not valid without the original signature and the original seal of a state licensed surveyor.
13. The Lease Area, and Access and Utility Easement shown hereon was provided by Integrisite dated July 31, 2019 in direct correlation with existing monuments and physical evidence found through inspection and may not depict actual rights of occupancy.
14. Zoning: (as supplied by client)
Zoning Jurisdiction: Kentucky Public Service Commission

TOWER INFO			
LATITUDE:	37°24'17.814" NORTH	BY:	ZAC
LONGITUDE:	86°14'17.134" WEST	DATE:	9/13/19
(NAD 83)		REVISION:	ZAC
GROUND ELEVATION:	826.8'	ADDED TITLE:	ZAC
ABOVE MEAN SEA LEVEL (NAVD88)		REVISED ACCESS EASEMENT:	ZAC
SITE ADDRESS:	6918 Annetta Road, Leitchfield, KY 42754	ADDED SITE BUFFERS:	ZAC
		ADDED 30' UTILITY EASEMENT:	KM

VICINITY MAP			
NO.	1.	2.	3.
PROJECT NO	19-1552		



KENTUCKY	
GRID NORTH	GRID TO TRUE NORTH CONVERGENCE -0'17"
TRUE NORTH TO MAGNETIC DECLINATION	4'22" W
COMBINED SCALE FACTOR	0.999938585

LEGEND	
○	= 5/8" REBAR SET
●	= FOUND PROPERTY MARKER
POB	= POINT OF BEGINNING
POC	= POINT OF COMMENCEMENT
POE	= POINT OF ENDING
▲	= CALCULATED POINT
(R)	= REFERENCED INFORMATION
(M)	= MEASURED
⊗	= POWER POLE
+	= GUY ANCHOR
⊠	= POWER BOX
⊞	= TELEPHONE PEDESTAL
⊙	= GROUNDING ROD

---	RIGHT-OF-WAY
-o-p-	OVERHEAD POWER

FLOOD NOTE
By graphic plotting only, the subject property appears to lie in Zone "X" of the Flood Insurance Rate Map Community Panel No. 21085C0265C, which bears an effective date of 09/19/2012 and IS NOT in a special flood hazard area. Zone 'X': Areas determined to be outside the 0.2% annual chance floodplain.

ANNETTA ROAD
14636401
GRAYSON COUNTY, KENTUCKY

RAWLAND TOWER SURVEY

INTEGRISITE
2106 NORTH 7TH ST. SUITE 228
WEST MONROE, LA 71291

SMW Engineering Group, Inc.
158 Business Center Drive
Birmingham, Alabama 35244
Ph: 205-252-6985
www.smweng.com

CA 758, Expires December 31, 2020

PARENT TRACT (BK 358, PG 469)

Parcel # 2: A certain tract or parcel of land lying and being near Meredith, Grayson County, Kentucky, bounded and described as follows, to-wit:

BEGINNING at a stone on a spur of the Highway leading from Highway No. 65 to Meredith at a corner of garden; thence north 32 poles to Lonnie Whites; thence west with Lonnie White's line to an elm tree; thence north 13 west 12-1/4; thence north 76 west 54 poles to a chestnut; thence 66-4/5 to a garden fence; thence north 87 east 7 poles, south 4 west 6 poles to a road; thence with said road to the beginning, containing 3.3 acres, more or less.

EXCEPTION-[A] THERE IS EXCEPTED from the foregoing that part of the above described property conveyed by Woodrow Alexander, et al, to Mid-Valley Pipeline Company by deed dated June 13, 1950 and recorded in Deed Book 43, Page 520, that said conveyance being described as follows: (However, the following description is a part of the above described property and a part of other property then owned by Alexander.)

BEGINNING at the Northwest corner of said tract; thence S 89 degrees 31 minutes W 359.49 feet to an iron pipe 1-1/2" in diameter, set in the line fence between Alexander and William Moore; thence S 0 degrees 9 minutes E 309.8 feet to an iron pipe 1-1/2" in diameter; thence N 89 degrees 51 minutes E 196.62 feet to an iron pipe 1-1/2" in diameter, set in line fence between Alexander and Kentucky State Route # 226 right of way; thence along said fence N 27 degrees 35 minutes E 350 feet to the point of beginning, containing 1.98 acre, more or less.

THERE IS FUTHER EXCEPTED [B] that part conveyed to Joseph M. Alexander, et ux, by deed dated October 2, 1958, and recorded in Deed Book 56, page 208, and being described as follows:

BEGINNING at an iron pipe on the north right of way of Kentucky State Highway No. 65, said pipe being S 85 degrees 00 minutes W 1006.00 feet from the Southwest corner of the four acre tract heretofore conveyed to Woodrow Alexander by deed dated December 7, 1944, and recorded in Deed Book 33, page 238, records of the Grayson County Clerk's office; thence with the north right of way of said highway S 85 degrees 00 minutes W 175.0 feet to an iron pipe; thence M 5 degrees 00 minutes W 125.0 feet to an iron pipe; thence N 85 degrees 00 minutes E 175.0 feet to an iron pipe; thence S 5 degrees 00 minutes E 125.0 feet, more or less, to the point of beginning, and containing 1/2 acre, more or less.

THERE IS FUTHER EXCEPTED [C] that part conveyed to Glenn Pierce, et ux, by deed dated May 7, 1959, recorded in Deed Book 59, at page 22, and described as follows:

BEGINNING at the northwest corner of Joseph M. Alexander lot; thence S 88 degrees 30 minutes W for 175 feet to a hub; thence S 21 degrees 00 minutes W 130 feet to a hub on the right of way line of Highway No. 65; thence with this line, N 89 degrees 30 minutes E for 233 feet to the southwest corner of the J.M. Alexander lot; thence N 5 degrees 00 minutes W to the beginning and containing one half (1/2) acre, more or less.

THERE IS FURTHER EXCEPTED [D] that part conveyed to Joseph M. Alexander, et ux, by deed dated December 30, 1969, and recorded in Deed Book 104, Page 342, and described as follows:

BEGINNING at an iron pipe in the north right of way line of Kentucky State Highway, said pipe being S 85 degrees 00 minutes W for 921.0 feet from the Southwest corner of the four acre tract heretofore conveyed to Woodrow Alexander by deed dated December 7, 1944, and recorded in Deed Book 33, page 238, records of the Grayson County Clerk's office; thence with north right of way of said highway, S 85 degrees 00 minutes W for 260.0 feet to an iron rod; thence north 5 degrees 00 minutes W for 125.0 feet to a large fence post; thence with said fence 83 degrees 00 minutes for 260 feet to an iron rod; thence S 5 degrees 00 minutes for 110.0 feet to the point of beginning and containing 0.72 acre, more or less.

THERE IS FURTHER EXCEPTED [E] that part conveyed to Glenn Pierce, et ux, by deed dated May 7, 1971, and recorded in Deed Book 111, Page 487, and described as follows:

BEGINNING at a concrete marker on the north side of the Meredith Post Office road, a corner of Colrence Pierce's land; thence with said Pierce line N 5 degrees E to a hub, the right of way of Kentucky State Highway 259, a distance of sixty-one and nine hundredths (61.09) feet; thence with said right of way S 56 degrees 55 minutes E to a spike in the edge of the Meredith Post Office road; thence being the right of way of said road, a distance 136.3 feet; thence with said right of way to the beginning corner, S 86 degrees 41 minutes W, a distance of 130.95 feet, containing 0.09 acre, more or less. [NOTE: Description does not describe a closed geometric figure. Location not determined.]

THERE IS FURTHER EXCEPTED AND RESERVED [F] to the parties of the first part, the following described property where the grantors received an undivided 1/2 interest from Ophelia White by deed dated August 18, 1941, and recorded in Deed Book 27, Page 624, and an undivided 1/2 interest from Joseph M. Alexander, et ux, by deed dated October 10, 1979, and recorded in Deed Book 167, page 546, and described as follows:

BEGINNING at an iron pipe in the north right of way line of Kentucky State Highway; said stake being in the southeast corner of the Joe Alexander tract; thence north along a line along the said Joe Alexander tract, said line being 160 feet from the Point of beginning to an iron stake; thence east a line parallel with the right of way of Kentucky State Highway for a distance of 210 feet to an iron stake; thence South a line parallel with said Joe Alexander line to an iron stake in the north right of way of Kentucky state Highway; thence west along the meanders of Kentucky State Highway to the point of beginning. [NOTE: Description does not describe a closed geometric figure. Location not determined.]

THERE IS FURTHER EXCEPTED [G] that land conveyed to James T. Gootee, Jr., unmarried, by Woodrow Alexander, et ux, by deed dated April 17, 1980, and recorded in Deed Book 175, Page 167, and more particularly described as follows: (the following property is a part of the above described property and a part of other property then owned by Alexander.)

BEGINNING at a 1-1/2 inch iron pipe in the west right of way of Kentucky Highway 226, the southwest corner of a 1.984 acre tract owned by Mid-Valley Pipeline Co. (See Deed Book 43, page 520-521;) thence running with said Highway 226, S 19-42 1/2 W 149.90 feet to a point; thence S 12-55 W 97.74 feet to a point 30 feet from the center of highway 226 and 30 feet from the center of Kentucky Highway 259; thence running with said Highway 259, S 82-16 W 231.83 feet to a pipe in the north right of way of said Highway 259, a new corner to land retained by Woodrow Alexander; thence leaving said Highway and severing property of said Alexander N 00-14 W 177.95 feet to a pipe in a fence line; thence N 50-01 1/2 E 138.71 feet to a pipe, the southwest corner of Mid-Valley Pipeline Co., tract; thence running with said tract N 89-51 E 196.62 feet to the point of beginning, containing 1.40 acres, more or less, with bearings referred to the line adjoining the Mid-Valley Pipeline Co., according to a survey by D.R. Clemans, Ky. Reg. LS # 1894 on April 8, 1980. [NOTE: Description does not describe a closed geometric figure. Location not determined.]

(NOTE: A, B, C, D, E, F, & G are shown for informational purposes only and do not appear in any recorded document.)

100' x 100' LEASE AREA (AS-SURVEYED)

A portion of the Perry tract described in Book 358, Page 469 as recorded in the Office of Probate Judge for Grayson County, Alabama, and being more particularly described as follows:

Commencing at a 1.5" Pipe Found, marking the interior Northeast corner of said tract. 1.5" Pipe being the NW corner of the Midvalley Pipe Line Co. recorded in Deed Bk.43, Pg.520; thence S 46'38'48" W a distance of 106.39 feet to a 5/8" rebar set, being the Point of Beginning of a 100'x100' Lease Area; thence S 02'35'22" E a distance of 100.00 feet to a 5/8" rebar set; thence S 87'24'38" W a distance of 100.00 feet to a 5/8" rebar set; thence N 02'35'22" W a distance of 100.00 feet to a 5/8" rebar set; thence N 87'24'38" E a distance of 100.00 feet to a 5/8" rebar set, being the Point of Beginning. Containing 0.23 acres±, 10,000 sq. ft.±

30' INGRESS/EGRESS & UTILITY/FIBER EASEMENT (AS-SURVEYED)

A portion of the Perry tract described in Book 358, Page 469 as recorded in the Office of Probate Judge for Grayson County, Alabama, and being more particularly described as follows:

Commencing at a 1.5" Pipe Found, marking the interior Northeast corner of said tract. 1.5" Pipe being the NW corner of the Midvalley Pipe Line Co. recorded in Deed Bk.43, Pg.520; thence S 46'38'48" W a distance of 106.39 feet to a 5/8" rebar set; thence S 02'35'22" E a distance of 100.00 feet to a 5/8" rebar set; thence S 87'24'38" W a distance of 50.00 feet to a point, being the Point of Beginning of a 30' ingress/egress & utility/fiber easement lying 15' each side of centerline as described; thence S 20'00'20" W a distance of 120.23 feet to a point; thence S 55'10'06" W a distance of 112.83 feet to a point; thence S 01'43'53" W a distance of 216.08 feet to a point along the North Right-of-Way line of Kentucky Highway 259, being the Point of Ending. Containing 0.31 acres±, 13,475 sq. ft.±

30' UTILITY/FIBER EASEMENT (AS-SURVEYED)

A portion of the Perry tract described in Book 358, Page 469 as recorded in the Office of Probate Judge for Grayson County, Alabama, and being more particularly described as follows:

Commencing at a 1.5" Pipe Found, marking the interior Northeast corner of said tract. 1.5" Pipe being the NW corner of the Midvalley Pipe Line Co. recorded in Deed Bk.43, Pg.520; thence S 46'38'48" W a distance of 106.39 feet to a 5/8" rebar set; thence S 02'35'22" E a distance of 100.00 feet to a 5/8" rebar set; thence S 87'24'38" W a distance of 10.77 feet to the Point of Beginning of a 30 foot utility/fiber easement lying 15 feet each side of centerline as described; thence run S 00'05'53" W for a distance of 11.03 feet to a point; thence run S 13'24'04" W for a distance of 173.27 feet to a point; thence run S 12'33'59" W for a distance of 215.42 feet to a point along the North Right-of-Way line of Kentucky Highway 259, being the Point of Ending. Containing 0.27 acres± or 11991.71 sq. ft.±

BY	DATE	ZAC	ZAC	ZAC	ZAC	ZAC	ZAC
	9/13/19		9/16/19		9/25/19		2/8/19
REVISION	ADDRESSED TITLE	REMOVED ACCESS EASEMENT	ADDRESSED SITE BUFFERS	ADDED 30' UTILITY EASEMENT			
NO.	1.	2.	3.	4.			

PROJECT NO
19-1552

DRAWN BY: ZAC
CHECKED BY: T/S
FIELD CREW: BW
APPROVED BY: DM
DATE: 09/11/19
SCALE: N.T.S.
SHEET 2 OF 3

RAWLAND TOWER SURVEY

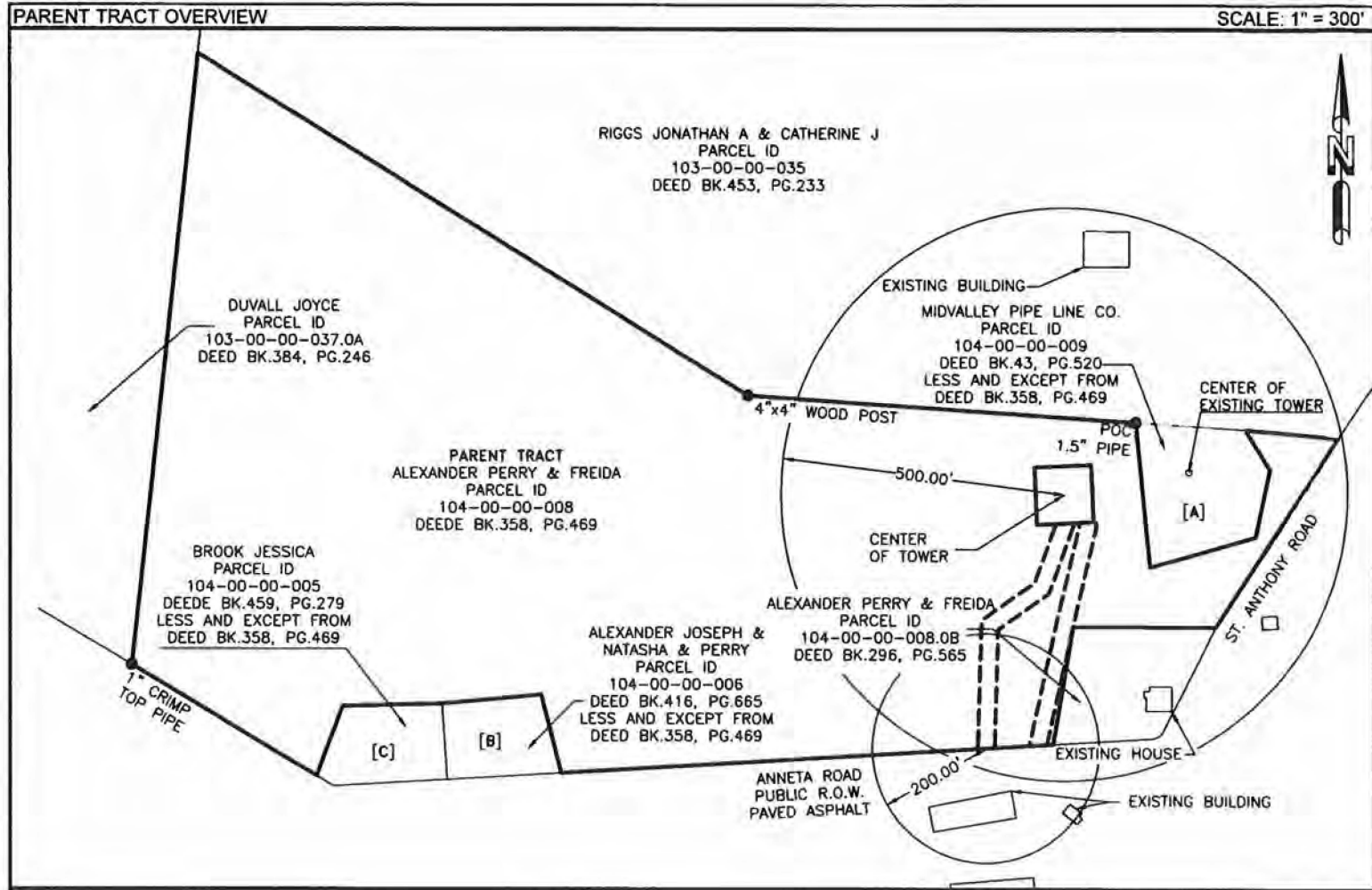
FOR:

INTEGRISITE
2106 NORTH 7TH ST., SUITE 228
WEST MONROE, LA 71291

SMW Engineering Group, Inc.
158 Business Center Drive
Birmingham, Alabama 35244
Ph: 205-252-6985
www.smweng.com
CA 758, Expires December 31, 2020

SMW
ENGINEERING GROUP, INC.

ANNETA ROAD
14636401
GRAYSON COUNTY, KENTUCKY



PLOTTABLE EXCEPTIONS
U.S. TITLE SOLUTIONS
US TITLE SOLUTIONS FILE NO. 63670-KY1907-5030
Date August 6, 2019
Schedule B

Exception No.	Instrument	Comment
1-7		Standard exceptions. Contain no survey matters.

NO.	REVISION	DATE	BY
1.	ADDRESSED TITLE	9/13/19	ZAC
2.	REVISED ACCESS EASEMENT	9/16/19	ZAC
3.	ADDRESSED SITE BUFFERS	9/25/19	ZAC
4.	ADDED 30' UTILITY EASEMENT	2/6/19	KM

PROJECT NO
19-1552

DRAWN BY: ZAC
CHECKED BY: TAS
FIELD CREW: BW
APPROVED BY: DM
DATE: 09/11/19
SCALE: 1" = 300'
SHEET 3 OF 3

RAWLAND TOWER SURVEY
FOR:
INTEGRISITE
2106 NORTH 7TH ST. SUITE 228
WEST MONROE, LA 71291

SMW Engineering Group, Inc.
158 Business Center Drive
Birmingham, Alabama 35244
Ph: 205-252-6985
www.smweng.com
CA 758, Expires December 31, 2020

SMW
ENGINEERING GROUP, INC.

SURVEYOR'S CERTIFICATION

I certify that all parts of this survey and drawing have been completed in accordance with the current requirements of the Standards of Practice for Surveying in the State of Kentucky to the best of my knowledge, information, and belief.

David D. McKinney
Kentucky License No. 3964

STATE OF KENTUCKY

DAVID D.
McKINNEY
3964

LICENSED
PROFESSIONAL
LAND SURVEYOR

02/13/20

ANNETA ROAD
14636401
GRAYSON COUNTY, KENTUCKY



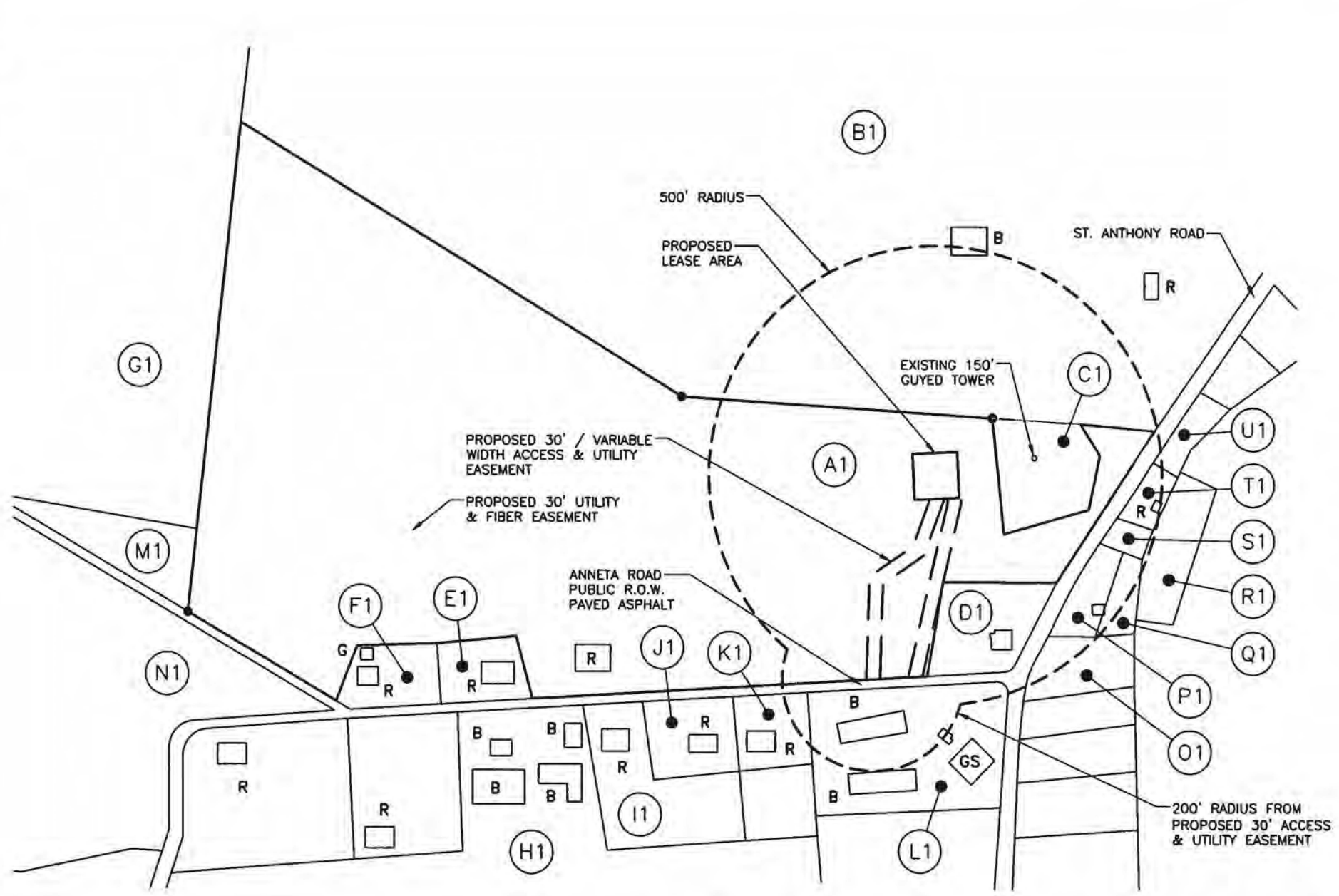
#	DATE	DESCRIPTION
0	11/15/19	ISSUED FOR CLIENT REV.
1	12/16/19	REISSUED FOR CLIENT REV.
2	02/14/20	ISSUED FOR CONSTRUCTION

ANNETA RD
500' RADIUS AND
ABUTTERS MAP

DESIGNED:	JDS
DRAWN:	BMD
CHECKED:	RTB

JOB # 14636401

- (A1) PARCEL ID: 104-00-00-008
ALEXANDER PERRY & FREIDA
6825 ANNETA RD
LEITCHFIELD, KY 42754
- (B1) PARCEL ID: 103-00-00-035
RIGGS JONATHAN A & CATHERINE J
915 GRINDSTONE RD
CLARKSON, KY 42726
- (C1) PARCEL ID: 104-00-00-009
EXISTING 150' GUYED TOWER
MIDVALLEY PIPELINE CO
CLARKSON, KY 42726
- (D1) PARCEL ID: 104-00-00-008.0B
ALEXANDER PERRY & FREIDA
6825 ANNETA RD
LEITCHFIELD, KY 42754
- (E1) PARCEL ID: 104-00-00-006
ALEXANDER JOSEPH & NATASHA & PERRY
6878 ANNETA RD
LEITCHFIELD, KY 42754
- (F1) PARCEL ID: 104-00-00-005
BROCK JESSICA
6822 ANNETA RD
LEITCHFIELD, KY 42754
- (G1) PARCEL ID: 103-00-00-037.0A
DUVALL JOYCE
4974 ANNETA RD
LEITCHFIELD, KY 42754
- (H1) PARCEL ID: 104-00-00-007
ALEXANDER PERRY & FREIDA
6825 ANNETA RD
LEITCHFIELD, KY 42754
- (I1) PARCEL ID: 104-00-00-007.0A
STINSON MAXINE
6934 ANNETA RD
LEITCHFIELD, KY 42754
- (J1) PARCEL ID: 104-00-00-052
NEWTON TREVOR ONEIL
6963 ANNETA RD
LEITCHFIELD, KY 42754
- (K1) PARCEL ID: 104-00-00-046
SAPP ELSIE
6985 ANNETA RD
LEITCHFIELD, KY 42754
- (L1) PARCEL ID: 104-00-00-048
NU MANAGEMENT LLC
7103 ANNETA RD
LEITCHFIELD, KY 42754
- (M1) PARCEL ID: 104-00-00-002
WEST KAREN LEIGH PIERCE & GLENN R
15 LONG BRANCH RD
LEITCHFIELD, KY 42754
- (N1) PARCEL ID: 104-00-00-002
WEST KAREN LEIGH PIERCE & GLENN R
15 LONG BRANCH RD
LEITCHFIELD, KY 42754
- (O1) PARCEL ID: 104-00-00-008.0G
ALEXANDER PERRY & FREIDA
6825 ANNETA RD
LEITCHFIELD, KY 42754

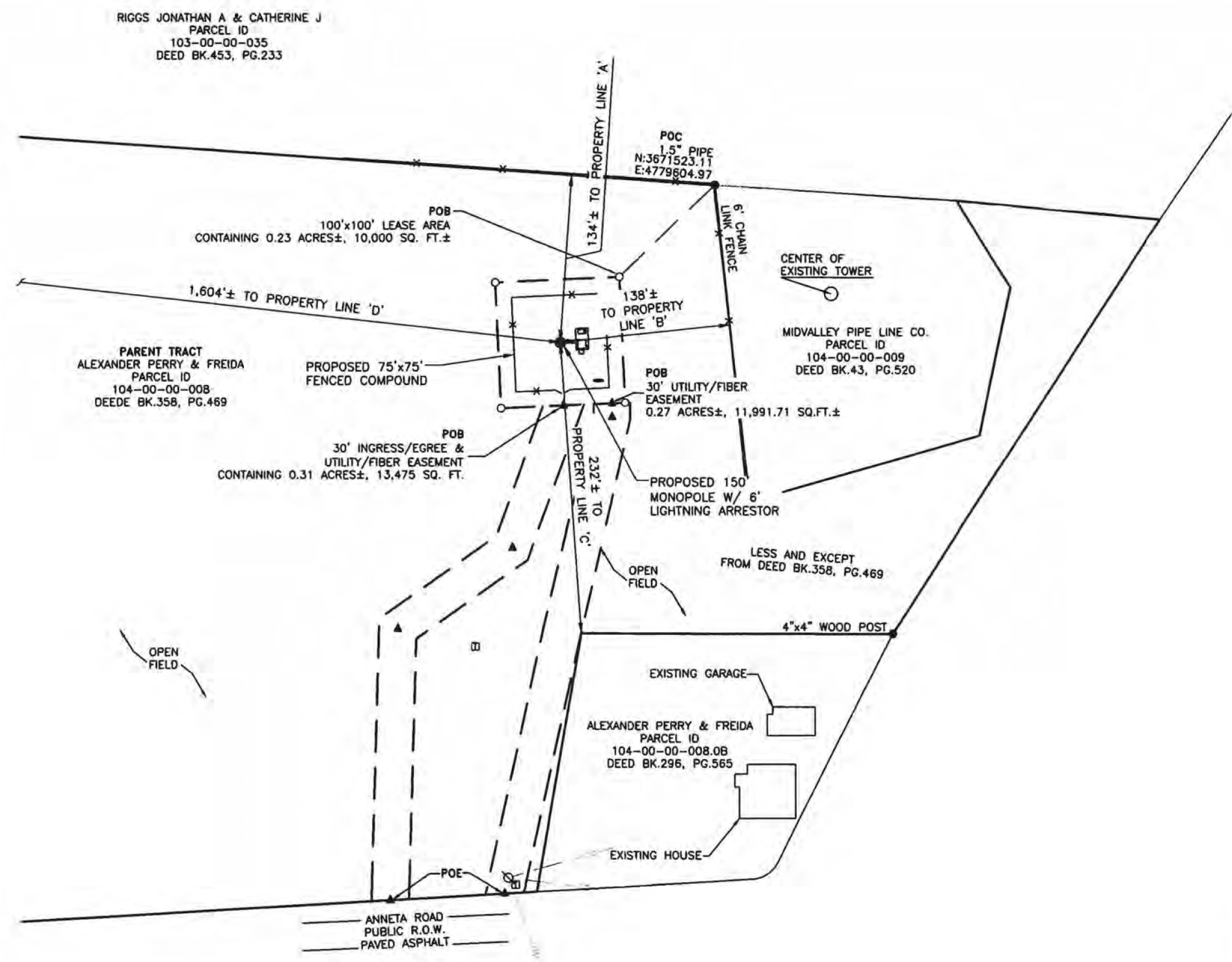


- (S1) PARCEL ID: 104-00-00-008.0A
STEVENSON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754
- (T1) PARCEL ID: 104-00-00-010
STEVENSON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754
- (U1) PARCEL ID: 104-00-00-011.0B
STEVENSON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754
- (P1) PARCEL ID: 104-00-00-008.0D
STEVENSON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754
- PARCEL ID: 104-00-00-008.0D_D2
LENICK TABITHA (MOBILE HOME)
37 ST ANTHONY CHURCH RD
CLARKSON, KY 42726
- (Q1) PARCEL ID: 104-00-00-008.0C
STEVENSON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754
- (R1) PARCEL ID: 103-00-00-050.0C
STEVENSON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754

EXISTING BUILDINGS
R = RESIDENCE
B = BARN
G = GARAGE
GS = GAS STATION

NOTE:
INFORMATION COMPILED ON 11/15/19
INFORMATION SHOWN IS BASED ON THE RECORDS
OF THE GRAYSON COUNTY, KENTUCKY PROPERTY
VALUATION ADMINISTRATOR





#	DATE	DESCRIPTION
0	11/15/19	ISSUED FOR CLIENT REV.
1	12/16/19	REISSUED FOR CLIENT REV.
2	02/14/20	ISSUED FOR CONSTRUCTION

ANNETA RD

OVERALL SITE LAYOUT

DESIGNED: JDS
DRAWN: BMD
CHECKED: RTB
JOB #: 14636401

CA# 2865

JEREMY D. SHARIT
28823
LICENSED PROFESSIONAL ENGINEER

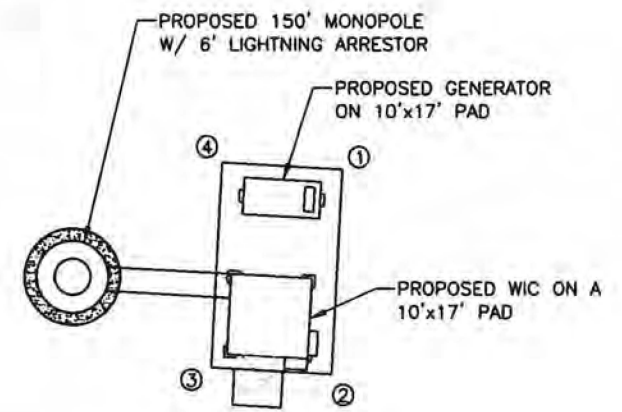
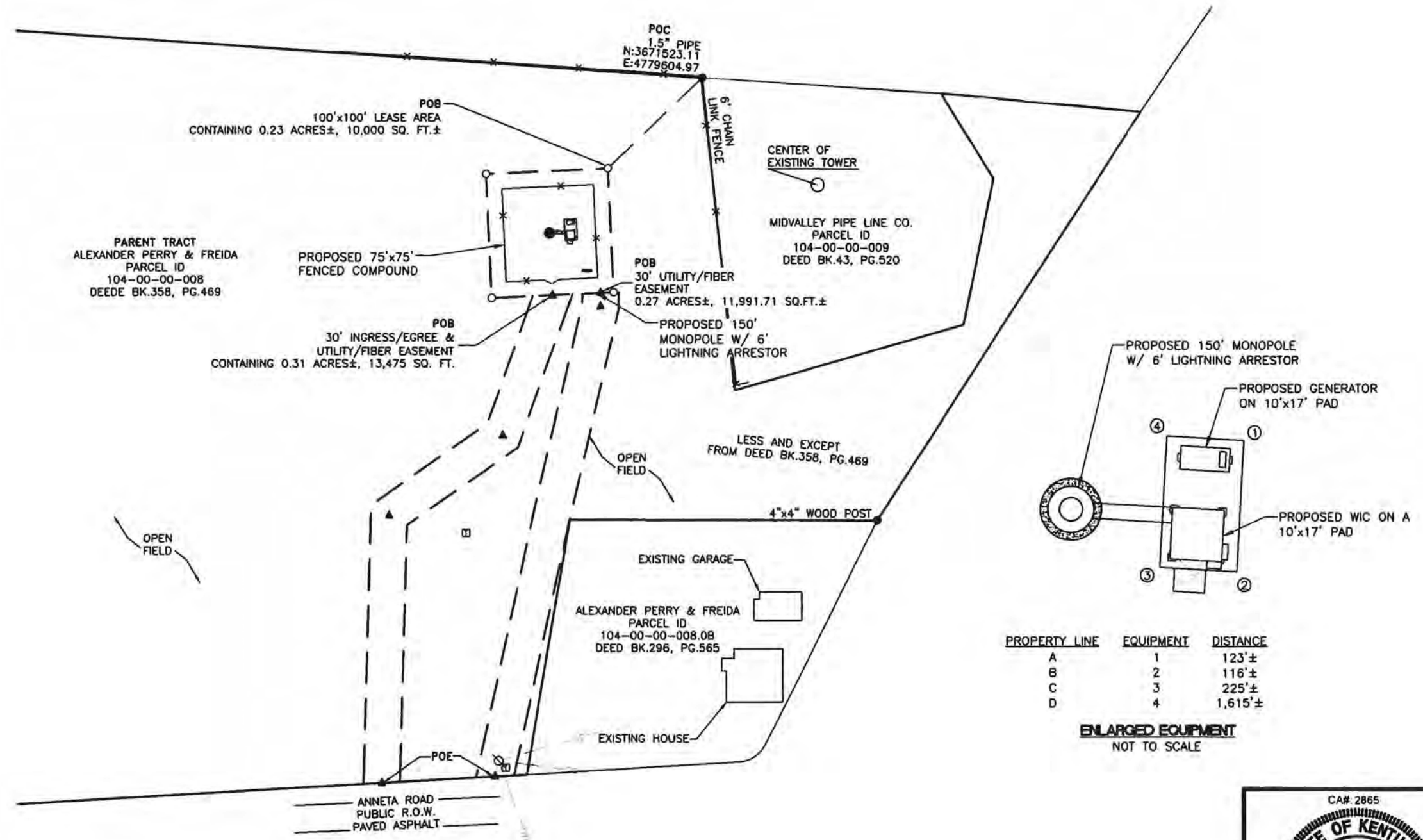
Jeremy D. Sharit

02/14/20



RIGGS JONATHAN A & CATHERINE J
PARCEL ID
103-00-00-035
DEED BK.453, PG.233

PARENT TRACT
ALEXANDER PERRY & FREIDA
PARCEL ID
104-00-00-008
DEEDE BK.358, PG.469



PROPERTY LINE	EQUIPMENT	DISTANCE
A	1	123'±
B	2	116'±
C	3	225'±
D	4	1,615'±

ENLARGED EQUIPMENT
NOT TO SCALE



#	DATE	DESCRIPTION
0	11/15/19	ISSUED FOR CLIENT REV.
1	12/16/19	REISSUED FOR CLIENT REV.
2	02/14/20	ISSUED FOR CONSTRUCTION

ANNETA RD
OVERALL SITE LAYOUT - CONT'D

CA# 2865
STATE OF KENTUCKY
JEREMY D. SHARIT
28823
LICENSED PROFESSIONAL ENGINEER

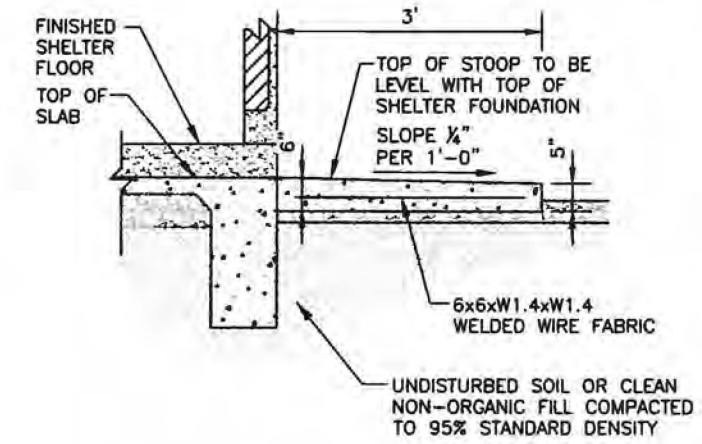
02/14/20

DESIGNED: JDS
DRAWN: BMD
CHECKED: RTB

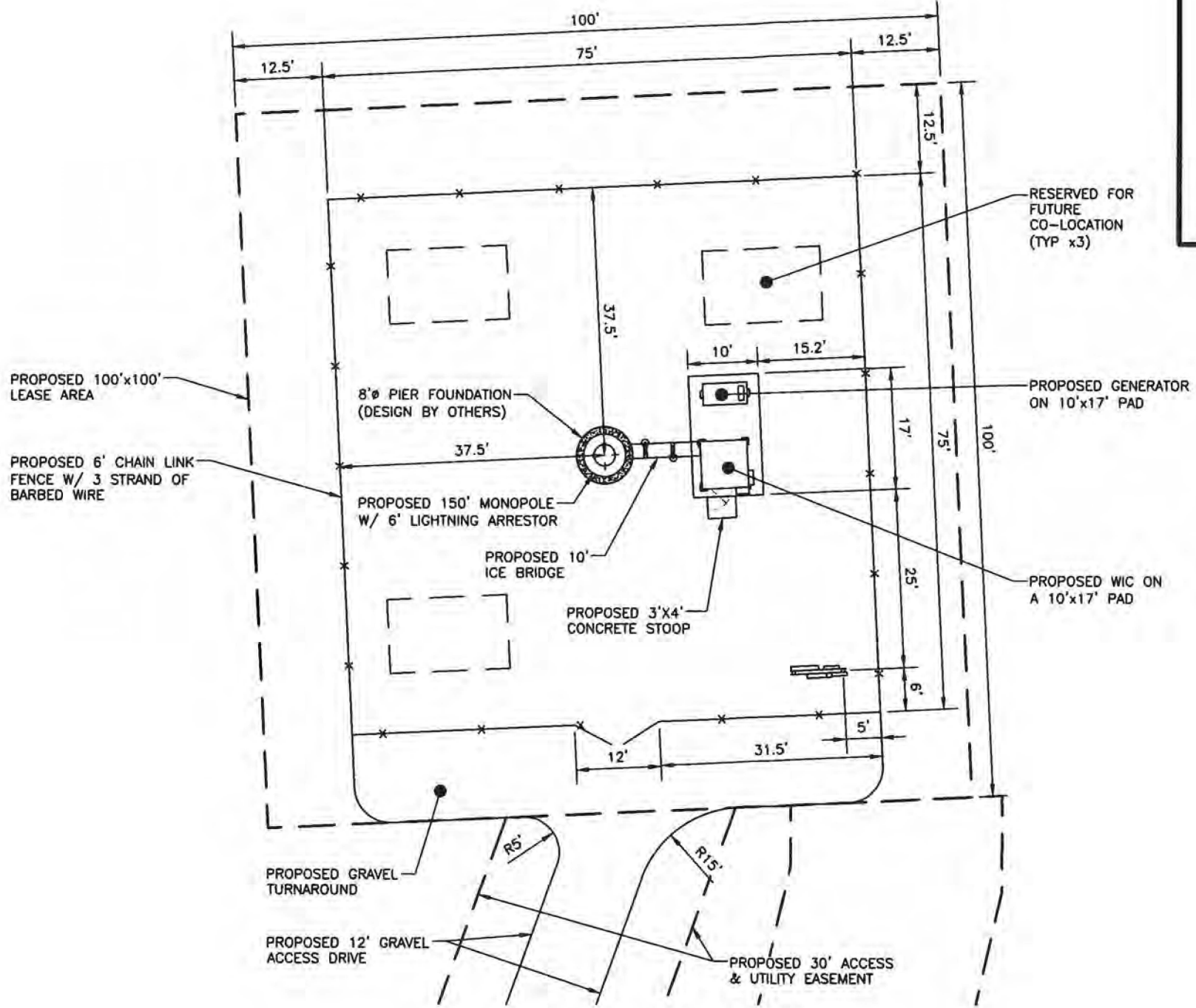
JOB #: 14636401

C-2

EXISTING TREES TO BE REMOVED WITHIN COMPOUND AND EASEMENT. CONTRACTOR TO FIELD VERIFY BEFORE CONSTRUCTION



1 3'x4' STOOP DETAIL
C-3 NTS



#	DATE	DESCRIPTION
0	11/15/19	ISSUED FOR CLIENT REV.
1	12/16/19	ISSUED FOR CLIENT REV.
2	02/14/20	ISSUED FOR CONSTRUCTION

ANNETA RD
ENLARGED COMPOUND LAYOUT

CA#: 2865

Jeremy D. Sharit

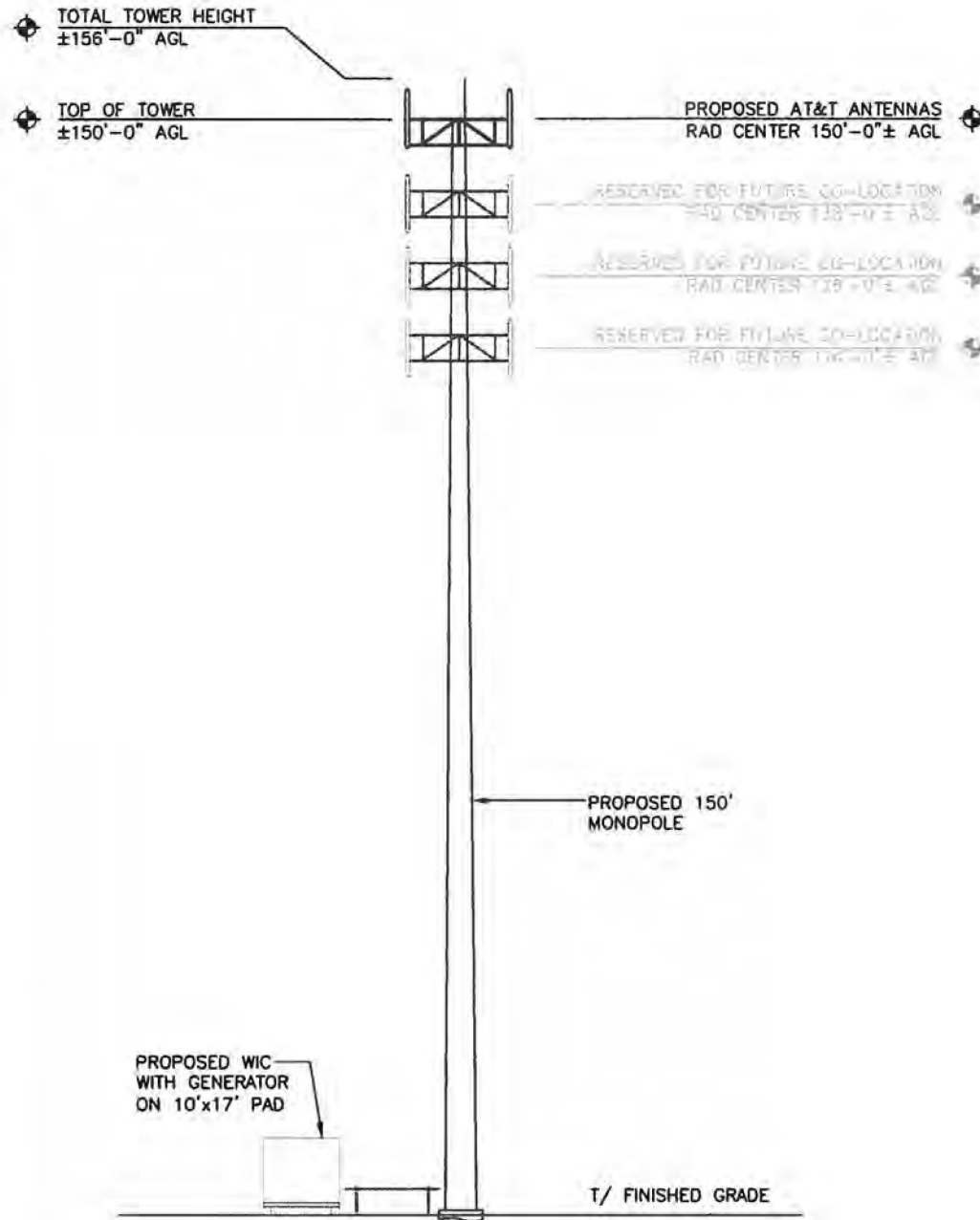
02/14/20

DESIGNED: JDS
DRAWN: BMD
CHECKED: RTB

JOB #: 14636401
C-3

TOWER NOTES

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



1 TOWER ELEVATION
C-4 NOT TO SCALE

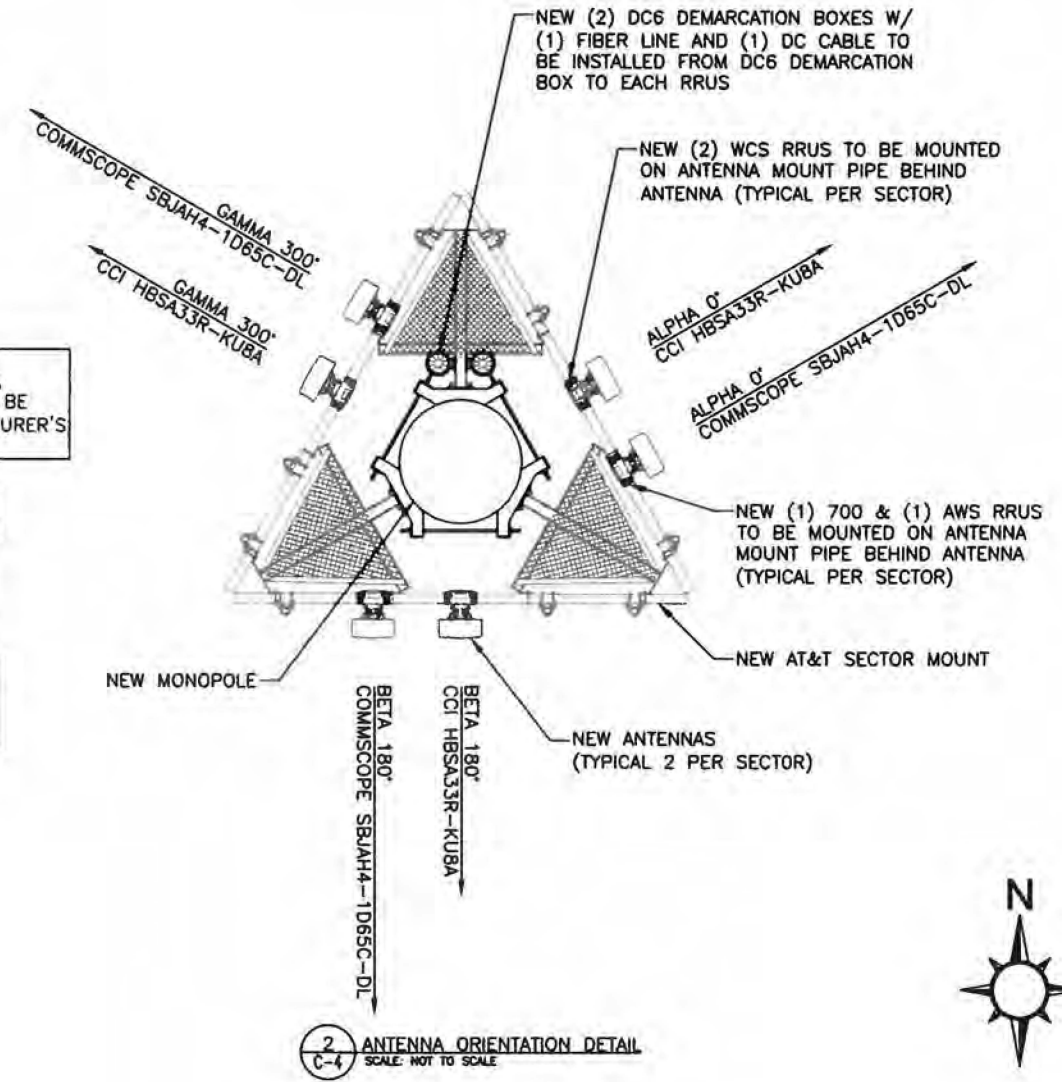
NOTE:
ALL CONNECTIONS FOR HANGERS, SUPPORTS, BRACING, ETC SHALL BE INSTALLED PER TOWER MANUFACTURER'S STANDARD DETAILS.

INNERDUCT IS REQUIRED TO BE ROUTED INSIDE MONOPOLE

REFER TO CURRENT RFDS FOR EQUIPMENT INFORMATION

NOTE:
ANTENNA LAYOUT PER PAGE 34 OF THE TNKY GULF STATES TOWER STANDARDS 2-5-19

FINAL ANTENNA LAYOUT WILL BE IN ACCORDANCE WITH THE LATEST RFDS



#	DATE	DESCRIPTION
0	11/15/19	ISSUED FOR CLIENT REV.
1	12/16/19	REISSUED FOR CLIENT REV.
2	02/14/20	ISSUED FOR CONSTRUCTION

ANNETA RD
TOWER ELEVATION

CA#: 2865

 DESIGNED: JDS
 DRAWN: BMD
 CHECKED: RTB
 JOB #: 14636401
 02/14/20

C-4

EXHIBIT C
TOWER AND FOUNDATION DESIGN



March 26th, 2020

Kentucky Public Service Commission
211 Sower Blvd.
Frankfort, KY 40602-0615

RE: Site Name – Anneta Rd
Proposed Cell Tower
37 24 17.81 North Latitude, 86 14 17.13 West Longitude

Dear Commissioners:

The Project / Construction Manager for the proposed new communications facility will be Sean Sheehan. His contact information is (610) 312-1001 or sean.sheehan@mastec.com

Sean 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 "Sean Sheehan".

Sean Sheehan, Sr. Project Manager – Tennessee/Kentucky Market
MasTec Network Solutions
(610) 312-1001



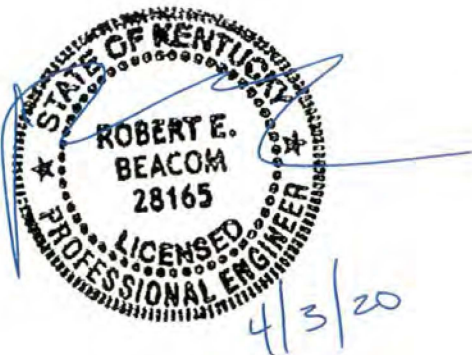
Structural Design Report
150' Monopole
Site: Anneta Road, KY

Prepared for: AT&T
by: Sabre Industries™

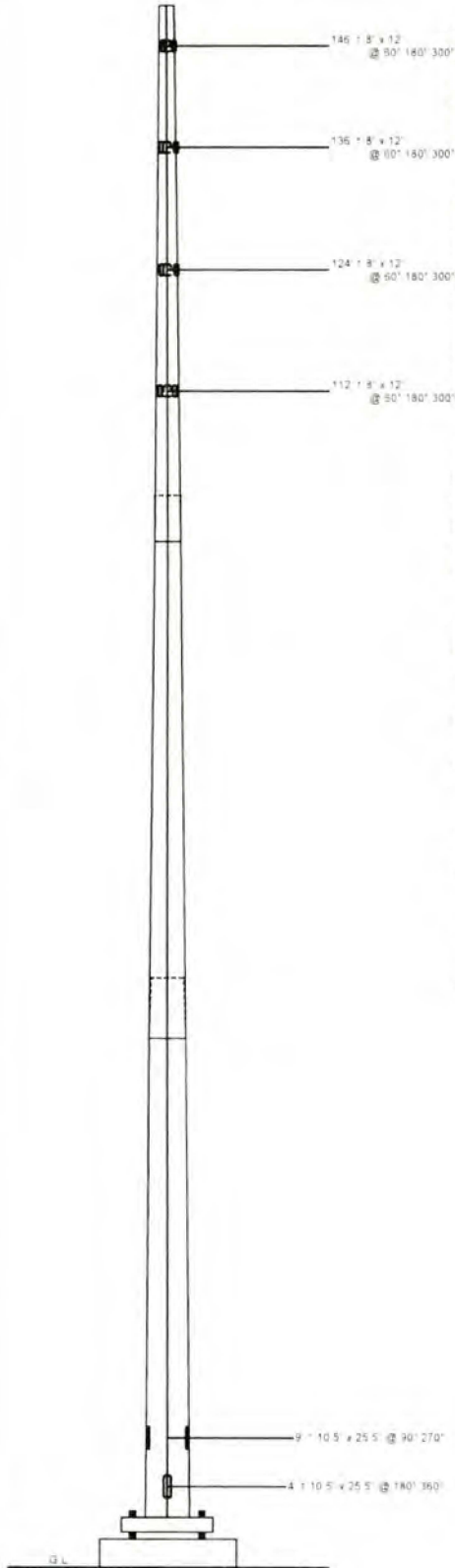
Job Number: 456845

April 3, 2020

Monopole Profile.....	1
Foundation Design Summary (Option 1).....	2
Foundation Design Summary (Option 2).....	3
Pole Calculations.....	4-14
Foundation Calculations.....	15-24



Length (ft)	53.3"	51.6"	52.9"
Number Of Sides	18		
Thickness (in)	1/2"	7/16"	5/16"
Lap Splice (ft)	6'-0"		4'-6"
Top Diameter (in)	40.71"		19.25"
Bottom Diameter (in)	53.48"		31.9"
Taper (in/ft)		0.2388	
Grade		A572-65	
Weight (lbs)	16029	9694	5191
Overall Steel Height (ft)	149		



Designed Appurtenance Loading

Elev	Description	Tx-Line
150	(1) 275 sq. ft. EPA 5000# (no ice)	(18) 1 5/8"
138	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"
126	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"
114	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"

Design Criteria - ANSI/TIA-222-H

Wind Speed (No Ice)	105 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Risk Category	II
Exposure Category	C
Topographic Factor Procedure	Method 1 (Simplified)
Topographic Category	1
Ground Elevation	835 ft

Load Case Reactions

Description	Axial (kips)	Shear (kips)	Moment (ft-k)	Deflection (ft)	Sway (deg)
3s Gusted Wind	66	44.33	5671.96	13.28	10.14
3s Gusted Wind 0.9 Dead	49.48	44.33	5553.62	12.92	9.83
3s Gusted Wind&Ice	108.19	8.45	1182.07	2.9	2.18
Service Loads	55.01	12.95	1648.95	3.94	2.97

Base Plate Dimensions

Shape	Diameter	Thickness	Bolt Circle	Bolt Qty	Bolt Diameter
Round	66.25"	2.5"	60.5"	20	2.25"

Anchor Bolt Dimensions

Length	Diameter	Hole Diameter	Weight	Type	Finish
84"	2.25"	2.625"	2422	A615-75	Galv

Notes

- 1) Antenna Feed Lines Run Inside Pole
- 2) All dimensions are above ground level, unless otherwise specified.
- 3) Weights shown are estimates. Final weights may vary.
- 4) Full Height Step Bolts
- 5) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2015 International Building Code.
- 6) Tower Rating: 95.6%



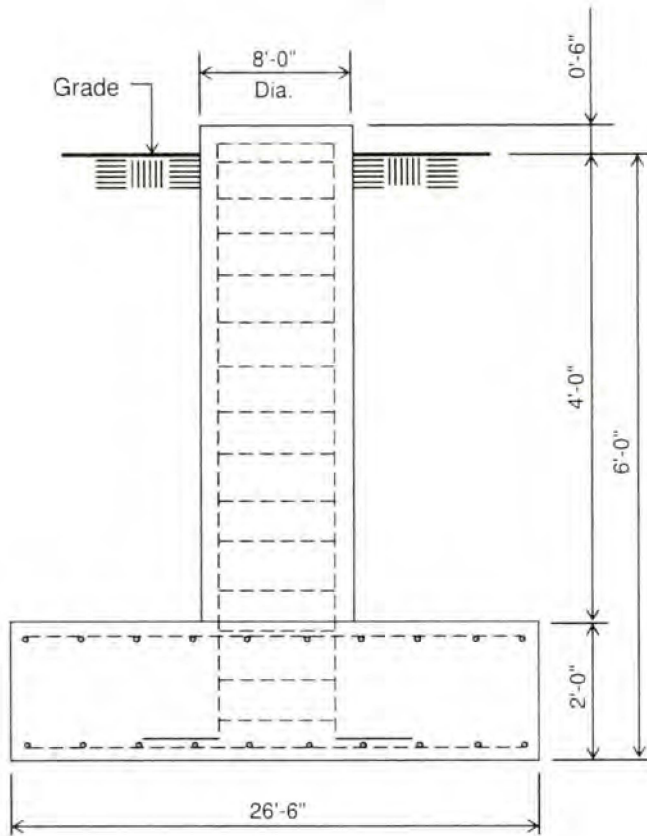
Sabre Industries
 7101 Southbridge Drive
 P.O. Box 558
 Sioux City, IA 51102-0658
 Phone: (712) 258-6660
 Fax: (712) 279-0814

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Job: **456845**
 Customer: AT&T
 Site Name: Anneta Road KY
 Description: 150' Monopole
 Date: 4/3/2020

By: REB

Customer: AT&T
Site: Anneta Road, KY
150' Monopole



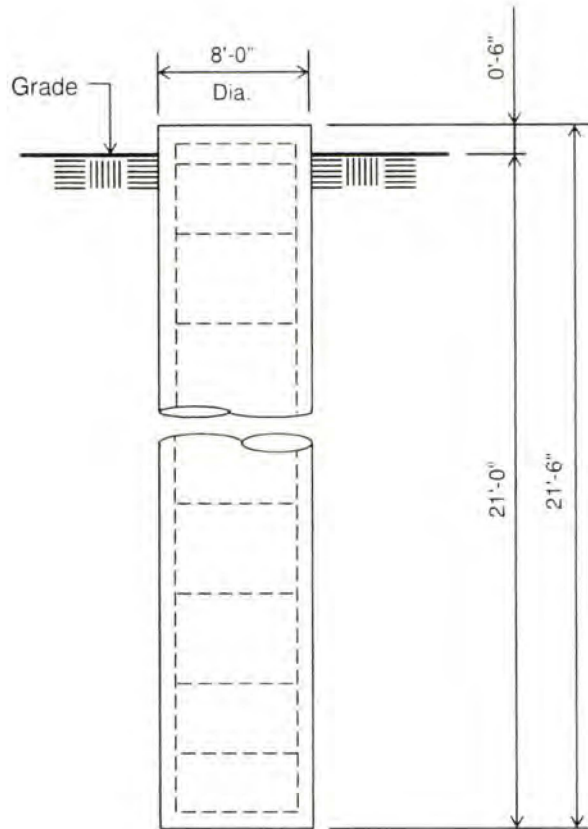
ELEVATION VIEW
(60.40 Cu. Yds.)
(1 REQUIRED; NOT TO SCALE)

Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-14.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by POD project no. 20-58521, dated: 3/26/20.
- 6) See the geotechnical report for compaction requirements, if specified.
- 7) 4 ft of soil cover is required over the entire area of the foundation slab.
- 8) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule for Pad and Pier	
Pier	(50) #10 vertical rebar w/ hooks at bottom w/ #5 ties, (2) within top 5" of pier, then 4" C/C
Pad	(32) #10 horizontal rebar evenly spaced each way top and bottom (128 total)

Customer: AT&T
Site: Anneta Road, KY
150' Monopole



ELEVATION VIEW

(40.03 Cu. Yds.)

(1 REQUIRED; NOT TO SCALE)

Notes:

- 1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-14.
- 2) Rebar to conform to ASTM specification A615 Grade 60.
- 3) All rebar to have a minimum of 3" concrete cover.
- 4) All exposed concrete corners to be chamfered 3/4".
- 5) The foundation design is based on the geotechnical report by POD project no. 20-58521. dated: 3/26/20.
- 6) See the geotechnical report for drilled pier installation requirements, if specified.
- 7) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

Rebar Schedule for Pier	
Pier	(50) #10 vertical rebar w/ #5 ties, (2) within top 5" of pier, then 7" C/C

456845

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(USA 222-H) - Monopole Spatial Analysis (c)2017 Guymast Inc.
 Tel: (416)736-7453 Fax: (416)736-4372 Web: www.guymast.com

Processed under license at:

Sabre Towers and Poles on: 3 apr 2020 at: 16:34:18

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150' Monopole / Annetà Road, KY

* All pole diameters shown on the following pages are across corners.
 See profile drawing for widths across flats.

=====

POLE GEOMETRY

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ELEV	SECTION	No.	OUTSIDE	THICK	RESISTANCES		SPLICE	..OVERLAP..	w/t
ft	NAME	SIDE	DIAM	-NESS	◆ ² Pn	◆ ² Mn	TYPE	LENGTH	RATIO
			in	in	kip	ft-kip		ft	
149.0	.....		19.55	0.312	1395.5	539.1			
	A	18	31.29	0.312	2237.8	1400.6			9.8
100.7	.....		31.29	0.312	2237.8	1400.6			
	A/B	18	31.77	0.438	3182.4	2006.9	SLIP	4.50	1.73
96.2	.....		31.77	0.438	3182.4	2006.9			
	B	18	42.21	0.438	4243.8	3581.1			11.8
53.2	.....		42.21	0.438	4243.8	3581.1			
	B/C	18	42.81	0.500	4912.3	4192.7	SLIP	6.00	1.71
47.2	.....		42.81	0.500	4912.3	4192.7			
	C	18	54.31	0.500	6065.1	6599.2			14.1
0.0	.....							

=====

POLE ASSEMBLY

=====

SECTION	BASE	.....BOLTS AT BASE OF SECTION.....				CALC
NAME	ELEV	NUMBER	TYPE	DIAM	STRENGTH	THREADS IN
	ft			in	ksi	SHEAR PLANE
						ELEV
						ft
A	96.250	0	A325	0.00	92.0	0
B	47.250	0	A325	0.00	92.0	0
C	0.000	0	A325	0.00	92.0	0

=====

POLE SECTIONS

=====

SECTION	No. of	LENGTH	OUTSIDE DIAMETER		BEND	MAT-	FLANGE ID		FLANGE WELD	
NAME	SIDES		BOT	TOP	RAD	ERIAL	BOT	TOP	GROUP	ID..
		ft	in	in	in	ID			BOT	TOP
A	18	52.75	32.39	19.55	0.625	1	0	0	0	0
B	18	53.50	43.69	30.66	0.625	2	0	0	0	0
C	18	53.25	54.31	41.34	0.625	3	0	0	0	0

* - Diameter of circumscribed circle

=====

MATERIAL TYPES

=====

TYPE OF	TYPE	NO OF	ORIENT	HEIGHT	WIDTH	.THICKNESS.	IRREGULARITY
SHAPE	NO	ELEM.				WEB FLANGE	.PROJECTION.
							% OF ORIENT

456845

		& deg	in	in	in	in	AREA	deg	
PL	1	1	0.0	32.39	0.31	0.312	0.312	0.00	0.0
PL	2	1	0.0	43.69	0.44	0.438	0.438	0.00	0.0
PL	3	1	0.0	54.31	0.50	0.500	0.500	0.00	0.0

& - with respect to vertical

MATERIAL PROPERTIES

MATERIAL TYPE NO.	ELASTIC MODULUS ksi	UNIT WEIGHT pcf	.. STRENGTH .. Fu ksi	Fy ksi	THERMAL COEFFICIENT /deg
1	29000.0	490.0	80.0	65.0	0.00001170
2	29000.0	490.0	80.0	65.0	0.00001170
3	29000.0	490.0	80.0	65.0	0.00001170

* Only 3 condition(s) shown in full

* Some concentrated wind loads may have been derived from full-scale wind tunnel testing

LOADING CONDITION A

105 mph wind with no ice. wind Azimuth: 0°

LOADS ON POLE

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	149.000	0.00	0.0	0.0	10.9655	7.2000	0.0000	0.0000
C	147.000	0.00	0.0	0.0	0.0000	3.3022	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0286	0.0168	0.0000	0.0000
C	137.000	0.00	0.0	0.0	0.0000	3.0776	0.0000	0.0000
C	137.000	0.00	0.0	0.0	8.0616	4.8000	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0282	0.0168	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0000	2.8080	0.0000	0.0000
C	125.000	0.00	0.0	0.0	7.9087	4.8000	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0277	0.0168	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0272	0.0168	0.0000	0.0000
C	113.000	0.00	0.0	0.0	0.0000	2.5384	0.0000	0.0000
C	113.000	0.00	0.0	0.0	7.7438	4.8000	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0267	0.0168	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0262	0.0168	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0255	0.0168	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0249	0.0168	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0241	0.0168	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0233	0.0168	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0223	0.0168	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0212	0.0168	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0197	0.0168	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0178	0.0168	0.0000	0.0000
D	149.000	0.00	180.0	0.0	0.0440	0.0847	0.0000	0.0000
D	132.917	0.00	180.0	0.0	0.0440	0.0847	0.0000	0.0000
D	132.917	0.00	180.0	0.0	0.0507	0.1002	0.0000	0.0000
D	116.833	0.00	180.0	0.0	0.0507	0.1002	0.0000	0.0000
D	116.833	0.00	180.0	0.0	0.0569	0.1156	0.0000	0.0000
D	100.750	0.00	180.0	0.0	0.0569	0.1156	0.0000	0.0000
D	100.750	0.00	180.0	0.0	0.0605	0.2977	0.0000	0.0000
D	96.250	0.00	180.0	0.0	0.0605	0.2977	0.0000	0.0000
D	96.250	0.00	180.0	0.0	0.0623	0.1849	0.0000	0.0000
D	81.917	0.00	180.0	0.0	0.0623	0.1849	0.0000	0.0000
D	81.917	0.00	180.0	0.0	0.0663	0.2041	0.0000	0.0000
D	67.583	0.00	180.0	0.0	0.0663	0.2041	0.0000	0.0000
D	67.583	0.00	180.0	0.0	0.0695	0.2234	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0695	0.2234	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0710	0.5027	0.0000	0.0000
D	47.250	0.00	180.0	0.0	0.0710	0.5027	0.0000	0.0000

					456845			
D	47.250	0.00	180.0	0.0	0.0702	0.2794	0.0000	0.0000
D	35.437	0.00	180.0	0.0	0.0702	0.2794	0.0000	0.0000
D	35.437	0.00	180.0	0.0	0.0698	0.2975	0.0000	0.0000
D	23.625	0.00	180.0	0.0	0.0698	0.2975	0.0000	0.0000
D	23.625	0.00	180.0	0.0	0.0668	0.3157	0.0000	0.0000
D	11.812	0.00	180.0	0.0	0.0668	0.3157	0.0000	0.0000
D	11.812	0.00	180.0	0.0	0.0675	0.3338	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0675	0.3338	0.0000	0.0000

=====

LOADING CONDITION M

=====

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

LOADS ON POLE

=====

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	149.000	0.00	0.0	0.0	10.9655	5.4000	0.0000	0.0000
C	147.000	0.00	0.0	0.0	0.0000	2.4767	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0286	0.0126	0.0000	0.0000
C	137.000	0.00	0.0	0.0	0.0000	2.3082	0.0000	0.0000
C	137.000	0.00	0.0	0.0	8.0616	3.6000	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0282	0.0126	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0000	2.1060	0.0000	0.0000
C	125.000	0.00	0.0	0.0	7.9087	3.6000	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0277	0.0126	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0272	0.0126	0.0000	0.0000
C	113.000	0.00	0.0	0.0	0.0000	1.9038	0.0000	0.0000
C	113.000	0.00	0.0	0.0	7.7438	3.6000	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0267	0.0126	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0262	0.0126	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0255	0.0126	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0249	0.0126	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0241	0.0126	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0233	0.0126	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0223	0.0126	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0212	0.0126	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0197	0.0126	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0178	0.0126	0.0000	0.0000
D	149.000	0.00	180.0	0.0	0.0440	0.0636	0.0000	0.0000
D	132.917	0.00	180.0	0.0	0.0440	0.0636	0.0000	0.0000
D	132.917	0.00	180.0	0.0	0.0507	0.0751	0.0000	0.0000
D	116.833	0.00	180.0	0.0	0.0507	0.0751	0.0000	0.0000
D	116.833	0.00	180.0	0.0	0.0569	0.0867	0.0000	0.0000
D	100.750	0.00	180.0	0.0	0.0569	0.0867	0.0000	0.0000
D	100.750	0.00	180.0	0.0	0.0605	0.2233	0.0000	0.0000
D	96.250	0.00	180.0	0.0	0.0605	0.2233	0.0000	0.0000
D	96.250	0.00	180.0	0.0	0.0623	0.1387	0.0000	0.0000
D	81.917	0.00	180.0	0.0	0.0623	0.1387	0.0000	0.0000
D	81.917	0.00	180.0	0.0	0.0663	0.1531	0.0000	0.0000
D	67.583	0.00	180.0	0.0	0.0663	0.1531	0.0000	0.0000
D	67.583	0.00	180.0	0.0	0.0695	0.1675	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0695	0.1675	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0710	0.3770	0.0000	0.0000
D	47.250	0.00	180.0	0.0	0.0710	0.3770	0.0000	0.0000
D	47.250	0.00	180.0	0.0	0.0702	0.2095	0.0000	0.0000
D	35.437	0.00	180.0	0.0	0.0702	0.2095	0.0000	0.0000
D	35.437	0.00	180.0	0.0	0.0698	0.2231	0.0000	0.0000
D	23.625	0.00	180.0	0.0	0.0698	0.2231	0.0000	0.0000
D	23.625	0.00	180.0	0.0	0.0668	0.2368	0.0000	0.0000
D	11.812	0.00	180.0	0.0	0.0668	0.2368	0.0000	0.0000
D	11.812	0.00	180.0	0.0	0.0675	0.2504	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0675	0.2504	0.0000	0.0000

=====

LOADING CONDITION Y

=====

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

LOADS ON POLE

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	149.000	0.00	0.0	0.0	1.5245	17.6713	0.0000	0.0000
C	147.000	0.00	0.0	0.0	0.0000	3.3022	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0183	0.0288	0.0000	0.0000
C	137.000	0.00	0.0	0.0	0.0000	3.0776	0.0000	0.0000
C	137.000	0.00	0.0	0.0	1.7971	11.7229	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0180	0.0288	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0000	2.8080	0.0000	0.0000
C	125.000	0.00	0.0	0.0	1.7529	11.6602	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0176	0.0288	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0171	0.0288	0.0000	0.0000
C	113.000	0.00	0.0	0.0	0.0000	2.5384	0.0000	0.0000
C	113.000	0.00	0.0	0.0	1.7055	11.5919	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0167	0.0288	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0162	0.0288	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0157	0.0288	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0151	0.0288	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0145	0.0288	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0138	0.0288	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0130	0.0288	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0120	0.0288	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0109	0.0288	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0094	0.0288	0.0000	0.0000
D	149.000	0.00	180.0	0.0	0.0073	0.1340	0.0000	0.0000
D	132.917	0.00	180.0	0.0	0.0073	0.1340	0.0000	0.0000
D	132.917	0.00	180.0	0.0	0.0082	0.1570	0.0000	0.0000
D	116.833	0.00	180.0	0.0	0.0082	0.1570	0.0000	0.0000
D	116.833	0.00	180.0	0.0	0.0090	0.1797	0.0000	0.0000
D	100.750	0.00	180.0	0.0	0.0090	0.1797	0.0000	0.0000
D	100.750	0.00	180.0	0.0	0.0095	0.3663	0.0000	0.0000
D	96.250	0.00	180.0	0.0	0.0095	0.3663	0.0000	0.0000
D	96.250	0.00	180.0	0.0	0.0098	0.2561	0.0000	0.0000
D	81.917	0.00	180.0	0.0	0.0098	0.2561	0.0000	0.0000
D	81.917	0.00	180.0	0.0	0.0103	0.2810	0.0000	0.0000
D	67.583	0.00	180.0	0.0	0.0103	0.2810	0.0000	0.0000
D	67.583	0.00	180.0	0.0	0.0107	0.3054	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0107	0.3054	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0109	0.5880	0.0000	0.0000
D	47.250	0.00	180.0	0.0	0.0109	0.5880	0.0000	0.0000
D	47.250	0.00	180.0	0.0	0.0107	0.3654	0.0000	0.0000
D	35.437	0.00	180.0	0.0	0.0107	0.3654	0.0000	0.0000
D	35.437	0.00	180.0	0.0	0.0105	0.3867	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0100	0.4195	0.0000	0.0000

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Sabre Towers and Poles on: 3 apr 2020 at: 16:34:18

150' Monopole / Anneta Road, KY

MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

MAST ELEV ft	.....DEFLECTIONS (ft).....			.....ROTATIONS (deg).....		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
149.0	13.288	0.018	1.678	10.148	0.018	0.00L
132.9	10.558	0.018	1.198	9.768	0.018	0.00L
116.8	8.018	0.018	0.788	8.738	0.018	0.00L

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100.7	5.81B	0.01B	0.47B	7.22B	0.01B	0.00L
96.2	5.26B	0.01B	0.41B	6.88B	0.01B	0.00L
81.9	3.71B	0.01B	0.24B	5.67B	0.01B	0.00L
67.6	2.45B	0.00B	0.12B	4.48B	0.01B	0.00L
53.2	1.48B	0.00B	0.06B	3.34B	0.00B	0.00L
47.2	1.15B	0.00B	0.04B	2.93B	0.00B	0.00L
35.4	0.64B	0.00B	0.02B	2.13B	0.00B	0.00L
23.6	0.28B	0.00B	0.00B	1.37B	0.00B	0.00L
11.8	0.07B	0.00R	0.00B	0.66B	0.00R	0.00L
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.t.WIND.DIR ALONG kip	WIND.DIR ACROSS kip	MOMENT.w.r.t.WIND.DIR ALONG ft-kip	WIND.DIR ACROSS ft-kip	TORSION ft-kip
149.0	17.67 AB	10.97 O	0.00 R	0.01 O	0.00 R	0.00 R
132.9	37.99 AB	19.78 O	0.00 R	-243.70 I	0.04 L	0.05 L
	37.99 AI	19.78 R	0.00 E	-243.70 I	0.03 L	0.05 L
116.8	55.01 AI	28.53 R	0.00 E	-685.11 I	0.12 L	0.13 L
	55.01 AI	28.53 A	0.01 K	-685.09 I	0.11 L	0.13 L
100.7	72.08 AI	37.23 A	0.01 K	-1313.83 B	0.18 L	0.26 L
	72.08 AI	37.39 F	-0.07 L	-1313.83 B	-0.23 K	0.27 L
96.2	73.73 AI	37.66 F	-0.07 L	-1500.61 B	0.43 L	0.27 L
	73.73 AC	37.67 B	0.12 B	-1500.51 B	0.32 L	0.28 L
81.9	77.46 AC	38.61 B	0.12 B	-2104.07 B	-1.67 B	0.38 L
	77.46 AC	38.57 B	0.10 B	-2104.08 B	-1.67 B	0.38 L
67.6	81.51 AC	39.54 B	0.10 B	-2714.53 B	-3.13 B	0.50 L
	81.51 AC	39.54 B	0.10 B	-2714.54 B	-3.13 B	0.50 L
53.2	85.95 AC	40.58 B	0.10 B	-3331.48 B	-4.62 B	0.60 L
	85.95 AC	40.58 T	0.09 R	-3331.48 B	-4.66 B	0.60 L
47.2	89.48 AC	41.01 T	0.09 R	-3591.79 B	-5.15 B	0.62 L
	89.48 AC	41.01 B	0.11 R	-3591.77 B	-5.14 B	0.62 L
35.4	93.82 AJ	41.86 B	0.11 R	-4107.88 B	-6.11 B	0.67 L
	93.82 AJ	41.86 N	0.10 R	-4107.87 B	-6.10 B	0.67 L
23.6	98.51 AJ	42.73 N	0.10 R	-4627.05 B	-6.92 B	0.71 L
	98.51 AJ	42.72 T	0.10 R	-4627.05 B	-6.92 B	0.71 L
11.8	103.30 AJ	43.53 T	0.10 R	-5148.78 B	-7.68 B	0.73 L
	103.30 AJ	43.53 B	0.11 R	-5148.78 B	-7.67 B	0.73 L
	108.19 AG	44.33 B	0.11 R	-5671.96 B	-8.75 R	0.74 L

base

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reaction 108.19 AG -44.33 B -0.11 R 5671.96 B 8.75 R -0.74 L

COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
149.00	0.01AB	0.000	0.020	0.01AI	YES	9.80A	45.2
	0.02AB	0.31I	0.020	0.32I	YES	11.98A	45.2
132.92	0.02AI	0.31I	0.02R	0.32I	YES	11.98A	45.2
	0.03AI	0.64I	0.03R	0.65I	YES	14.16A	45.2
116.83	0.03AI	0.64I	0.03A	0.65I	YES	14.16A	45.2
	0.03AI	0.94B	0.03A	0.96B	YES	16.33A	45.2
100.75	0.02AI	0.67B	0.02F	0.69B	YES	11.57A	45.2
	0.02AI	0.72B	0.02F	0.73B	YES	12.00A	45.2
96.25	0.02AC	0.75B	0.02B	0.76F	YES	11.75A	45.2
	0.02AC	0.85B	0.02B	0.86B	YES	13.13A	45.2
81.92	0.02AC	0.85B	0.02B	0.86B	YES	13.13A	45.2
	0.02AC	0.90B	0.02B	0.91B	YES	14.52A	45.2
67.58	0.02AC	0.90B	0.02B	0.91B	YES	14.52A	45.2
	0.02AC	0.93B	0.02B	0.94B	YES	15.90A	45.2
53.25	0.02AC	0.82B	0.02N	0.83B	YES	13.87A	45.2
	0.02AC	0.82B	0.02N	0.83B	YES	14.38A	45.2
47.25	0.02AC	0.86B	0.02L	0.87B	YES	14.07A	45.2
	0.02AJ	0.86B	0.02L	0.87B	YES	15.07A	45.2
35.44	0.02AJ	0.86B	0.02N	0.87B	YES	15.07A	45.2
	0.02AJ	0.85B	0.02L	0.87B	YES	16.07A	45.2
23.62	0.02AJ	0.85B	0.02L	0.87B	YES	16.07A	45.2
	0.02AJ	0.86B	0.01L	0.87B	YES	17.07A	45.2
11.81	0.02AG	0.86B	0.01L	0.87B	YES	17.07A	45.2
	0.02AG	0.86B	0.01L	0.87B	YES	18.07A	45.2
0.00							

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

DOWN kip	SHEAR.w.r.t.WIND.DIR ALONG kip	ACROSS ACROSS kip	MOMENT.w.r.t.WIND.DIR ALONG ft-kip	ACROSS ACROSS ft-kip	TORSION ft-kip
108.19 AG	44.33 B	0.11 R	-5671.96 B	-8.75 R	0.74 L

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on: 3 apr 2020 at: 16:34:41

150' Monopole / Annetta Road, KY

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

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

LOADING CONDITION A

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

LOADS ON POLE

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	149.000	0.00	0.0	0.0	3.2037	6.0000	0.0000	0.0000
C	147.000	0.00	0.0	0.0	0.0000	2.7518	0.0000	0.0000
C	145.000	0.00	0.0	0.0	0.0084	0.0140	0.0000	0.0000
C	137.000	0.00	0.0	0.0	0.0000	2.5646	0.0000	0.0000
C	137.000	0.00	0.0	0.0	2.3553	4.0000	0.0000	0.0000
C	135.000	0.00	0.0	0.0	0.0082	0.0140	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0000	2.3400	0.0000	0.0000
C	125.000	0.00	0.0	0.0	2.3106	4.0000	0.0000	0.0000
C	125.000	0.00	0.0	0.0	0.0081	0.0140	0.0000	0.0000
C	115.000	0.00	0.0	0.0	0.0080	0.0140	0.0000	0.0000
C	113.000	0.00	0.0	0.0	0.0000	2.1154	0.0000	0.0000
C	113.000	0.00	0.0	0.0	2.2624	4.0000	0.0000	0.0000
C	105.000	0.00	0.0	0.0	0.0078	0.0140	0.0000	0.0000
C	95.000	0.00	0.0	0.0	0.0076	0.0140	0.0000	0.0000
C	85.000	0.00	0.0	0.0	0.0075	0.0140	0.0000	0.0000
C	75.000	0.00	0.0	0.0	0.0073	0.0140	0.0000	0.0000
C	65.000	0.00	0.0	0.0	0.0071	0.0140	0.0000	0.0000
C	55.000	0.00	0.0	0.0	0.0068	0.0140	0.0000	0.0000
C	45.000	0.00	0.0	0.0	0.0065	0.0140	0.0000	0.0000
C	35.000	0.00	0.0	0.0	0.0062	0.0140	0.0000	0.0000
C	25.000	0.00	0.0	0.0	0.0058	0.0140	0.0000	0.0000
C	15.000	0.00	0.0	0.0	0.0052	0.0140	0.0000	0.0000
D	149.000	0.00	180.0	0.0	0.0129	0.0706	0.0000	0.0000
D	132.917	0.00	180.0	0.0	0.0129	0.0706	0.0000	0.0000
D	132.917	0.00	180.0	0.0	0.0148	0.0835	0.0000	0.0000
D	116.833	0.00	180.0	0.0	0.0148	0.0835	0.0000	0.0000
D	116.833	0.00	180.0	0.0	0.0166	0.0963	0.0000	0.0000
D	100.750	0.00	180.0	0.0	0.0166	0.0963	0.0000	0.0000
D	100.750	0.00	180.0	0.0	0.0177	0.2481	0.0000	0.0000
D	96.250	0.00	180.0	0.0	0.0177	0.2481	0.0000	0.0000
D	96.250	0.00	180.0	0.0	0.0182	0.1541	0.0000	0.0000
D	81.917	0.00	180.0	0.0	0.0182	0.1541	0.0000	0.0000
D	81.917	0.00	180.0	0.0	0.0194	0.1701	0.0000	0.0000
D	67.583	0.00	180.0	0.0	0.0194	0.1701	0.0000	0.0000
D	67.583	0.00	180.0	0.0	0.0203	0.1862	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0203	0.1862	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0207	0.4189	0.0000	0.0000
D	47.250	0.00	180.0	0.0	0.0207	0.4189	0.0000	0.0000
D	47.250	0.00	180.0	0.0	0.0205	0.2328	0.0000	0.0000
D	35.437	0.00	180.0	0.0	0.0205	0.2328	0.0000	0.0000
D	35.437	0.00	180.0	0.0	0.0204	0.2479	0.0000	0.0000
D	23.625	0.00	180.0	0.0	0.0204	0.2479	0.0000	0.0000
D	23.625	0.00	180.0	0.0	0.0195	0.2631	0.0000	0.0000
D	11.812	0.00	180.0	0.0	0.0195	0.2631	0.0000	0.0000
D	11.812	0.00	180.0	0.0	0.0197	0.2782	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0197	0.2782	0.0000	0.0000

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MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

MAST ELEV ft	DEFLECTIONS (ft)			ROTATIONS (deg)		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
149.0	3.94k	0.00I	0.15C	2.97k	0.00I	0.00I
132.9	3.12k	0.00I	0.11C	2.86k	0.00I	0.00I
116.8	2.36k	0.00I	0.07C	2.55k	0.00I	0.00I
100.7	1.70k	0.00I	0.04C	2.11k	0.00I	0.00I
96.2	1.54k	0.00I	0.04C	2.00k	0.00I	0.00I
81.9	1.08k	0.00I	0.02C	1.65k	0.00I	0.00I
67.6	0.72k	0.00I	0.01C	1.30k	0.00I	0.00I
53.2	0.43k	0.00I	0.01C	0.97k	0.00I	0.00I
47.2	0.34k	0.00I	0.00C	0.85k	0.00I	0.00I
35.4	0.18k	0.00I	0.00C	0.62k	0.00I	0.00I
23.6	0.08k	0.00I	0.00C	0.40k	0.00I	0.00I
11.8	0.02k	0.00I	0.00C	0.19k	0.00I	0.00I
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

MAST ELEV ft	TOTAL AXIAL kip	SHEAR,w.r.t.WIND.DIR		MOMENT,w.r.t.WIND.DIR		TORSION ft-kip
		ALONG kip	ACROSS kip	ALONG ft-kip	ACROSS ft-kip	
149.0	6.00 D	3.20 B	0.00 L	0.00 H	0.00 E	0.00 H
132.9	16.48 D	5.78 B	0.00 L	-71.51 C	0.00 L	0.00 L
116.8	24.18 C	8.34 I	0.00 F	-200.64 C	0.01 I	0.00 L
100.7	31.87 A	10.89 I	0.00 H	-383.92 C	0.02 E	0.01 L
96.2	32.98 D	10.99 L	-0.01 K	-438.27 C	-0.07 F	0.01 L
81.9	35.22 F	11.26 K	0.03 I	-612.96 K	-0.46 I	0.02 I
67.6	37.67 I	11.55 K	0.03 I	-789.88 K	-0.93 I	0.03 I
53.2	40.37 I	11.86 K	0.03 I	-968.69 K	-1.40 I	0.04 I
47.2	42.88 I	11.98 K	0.04 I	-1044.13 K	-1.63 I	0.05 I
	45.65 I	12.22 K	0.03 I	-1193.73 K	-1.99 I	0.05 I

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35.4	45.65 I	12.22 K	0.03 I	-1193.73 K	-1.99 I	0.05 I
23.6	48.60 I	12.48 K	0.03 I	-1344.53 K	-2.33 I	0.06 I
11.8	51.72 I	12.72 K	0.03 I	-1496.36 K	-2.67 I	0.06 I
	51.72 I	12.71 K	0.03 I	-1496.36 K	-2.67 I	0.06 I
	55.01 I	12.95 K	0.03 I	-1648.95 K	-3.01 I	0.06 I
base reaction	55.01 I	-12.95 K	-0.03 I	1648.95 K	3.01 I	-0.06 I

COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
149.00	0.00D	0.00B	0.00H	0.00B	YES	9.80A	45.2
132.92	0.01D	0.09C	0.01B	0.10C	YES	11.98A	45.2
116.83	0.01C	0.19C	0.01I	0.20C	YES	14.16A	45.2
100.75	0.01A	0.19C	0.01I	0.20C	YES	14.16A	45.2
96.25	0.01A	0.27C	0.01I	0.29C	YES	16.33A	45.2
96.25	0.01D	0.21C	0.01L	0.22C	YES	12.00A	45.2
81.92	0.01F	0.22C	0.01K	0.23C	YES	11.75A	45.2
81.92	0.01F	0.25K	0.01K	0.26K	YES	13.13A	45.2
67.58	0.01I	0.25K	0.01K	0.26K	YES	13.13A	45.2
67.58	0.01I	0.26K	0.01K	0.27K	YES	14.52A	45.2
67.58	0.01I	0.26K	0.01K	0.27K	YES	14.52A	45.2
53.25	0.01I	0.27K	0.01K	0.28K	YES	15.90A	45.2
53.25	0.01I	0.24K	0.00K	0.25K	YES	13.87A	45.2
47.25	0.01I	0.24K	0.00K	0.25K	YES	14.38A	45.2
47.25	0.01I	0.25K	0.00K	0.26K	YES	14.07A	45.2
35.44	0.01I	0.25K	0.00K	0.26K	YES	15.07A	45.2
35.44	0.01I	0.25K	0.00K	0.26K	YES	15.07A	45.2
23.62	0.01I	0.25K	0.00K	0.26K	YES	16.07A	45.2
23.62	0.01I	0.25K	0.00K	0.26K	YES	16.07A	45.2
11.81	0.01I	0.25K	0.00K	0.26K	YES	17.07A	45.2
11.81	0.01I	0.25K	0.00K	0.26K	YES	17.07A	45.2
0.00	0.01I	0.25K	0.00K	0.26K	YES	18.07A	45.2

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

DOWN	SHEAR,w.r.t.WIND.DIR ALONG	ACROSS	MOMENT,w.r.t.WIND.DIR ALONG	ACROSS	TORSION
------	-------------------------------	--------	--------------------------------	--------	---------

kip	kip	kip	ft-kip	456845 ft-kip	ft-kip
55.01 I	12.95 K	0.03 I	-1648.95 K	-3.01 I	0.06 I

Round Base Plate and Anchor Rods, per ANSI/TIA 222-H

Pole Data

Diameter: 53.480 in (flat to flat)
Thickness: 0.5 in
Yield (Fy): 65 ksi
of Sides: 18 "0" IF Round
Strength (Fu): 80 ksi

Reactions

Moment, Mu: 5671.96 ft-kips
Axial, Pu: 66 kips
Shear, Vu: 44.33 kips

Anchor Rod Data

Quantity: 20
Diameter: 2.25 in
Rod Material: A615
Strength (Fu): 100 ksi
Yield (Fy): 75 ksi
BC Diam. (in): 60.5 BC Override:

Plate Data

Diameter (in): 66.25 Dia. Override:
Thickness: 2.5 in
Yield (Fy): 50 ksi
Eff Width/Rod: 8.49 in
Drain Hole: 2.625 in. diameter
Drain Location: 24.5 in. center of pole to center of drain hole
Center Hole: 41 in. diameter

Anchor Rod Results

(per 4.9.9)

Maximum Put: 222.53 Kips
 Φ^*R_{nt} : 243.75 Kips
Vu: 2.22 Kips
 Φ^*R_{nv} : 149.10 Kips
Tension Interaction Ratio: 0.83
Maximum Puc: 228.30 Kips
 Φ^*R_{nc} : 243.75 Kips
Vu: 2.22 Kips
 Φ^*R_{nvc} : 73.13 Kips
Compression Interaction Ratio: 0.94
Maximum Interaction Ratio: **93.8% Pass**

Base Plate Results

Base Plate (Mu/Z): 38.1 ksi
Allowable Φ^*F_y : 45.0 ksi (per AISC)
Base Plate Interaction Ratio: **84.6% Pass**

MAT FOUNDATION DESIGN BY SABRE INDUSTRIES

150' Monopole AT&T Anneta Road, KY (456845) 04/03/20 REB

Overall Loads:

Factored Moment (ft-kips)	5671.96
Factored Axial (kips)	66
Factored Shear (kips)	44.33
Bearing Design Strength (ksf)	6
Water Table Below Grade (ft)	999
Width of Mat (ft)	26.5
Thickness of Mat (ft)	2
Depth to Bottom of Slab (ft)	6
Quantity of Bolts in Bolt Circle	20
Bolt Circle Diameter (in)	60.5
Effective Anchor	
Bolt Embedment (in)	66.5
Diameter of Pier (ft)	8
Ht. of Pier Above Ground (ft)	0.5
Ht. of Pier Below Ground (ft)	4
Quantity of Bars in Mat	32
Bar Diameter in Mat (in)	1.27
Area of Bars in Mat (in ²)	40.54
Spacing of Bars in Mat (in)	10.02
Quantity of Bars Pier	50
Bar Diameter in Pier (in)	1.27
Tie Bar Diameter in Pier (in)	0.625
Spacing of Ties (in)	4
Area of Bars in Pier (in ²)	63.34
Spacing of Bars in Pier (in)	5.50
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 (yd³) 60.40

Two-Way Shear Action:

Average d (in)	19.73
ϕv_c (ksi)	0.195
$\phi v_c = \phi(2 + 4/\beta_c)f'_c{}^{1/2}$	0.302
$\phi v_c = \phi(\alpha_s d/b_o + 2)f'_c{}^{1/2}$	0.195
$\phi v_c = \phi 4f'_c{}^{1/2}$	0.201
Shear perimeter, b _o (in)	419.23
β_c	1

One-Way Shear:

ϕV_c (kips)	631.3
-------------------	-------

Stability:

Overturning Design Strength (ft-k)	6993.7
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Max. Net Bearing Press. (ksf)	5.49
-------------------------------	------

Allowable Bearing Pressure (ksf)	4.00
Safety Factor	2.00
Ultimate Bearing Pressure (ksf)	8.00
Bearing Φ_s	0.75

Minimum Pier Diameter (ft)	8.00
Equivalent Square b (ft)	7.09
Square Pier? (Y/N)	N

Recommended Spacing (in)	5 to 12
--------------------------	---------

Minimum Pier A _s (in ²)	36.19
Recommended Spacing (in)	5 to 12

v _u (ksi)	0.105
----------------------	-------

J (in ³)	1.528E+07
c + d (in)	104.81
0.40M _{sc} (ft-kips)	2348.6

V _u (kips)	390.5
-----------------------	-------

Total Applied M (ft-k)	5960.1
------------------------	--------

Pier-Slab Transfer by Flexure:

b_{slab} (ft)	14.00		
ϕM_n (ft-kips)	3610.1	$0.60M_{sc}$ (ft-kips)	3522.9

Pier Design:

ϕV_n (kips)	1275.4	V_u (kips)	44.3
$\phi V_c = \phi 2(1 + N_u / (2000A_g)) f'_c {}^{1/2} b_w d$	745.3		
V_s (kips)	706.9	$*** V_s \max = 4 f'_c {}^{1/2} b_w d$ (kips)	1978.3
Maximum Spacing (in)	7.62	(Only if Shear Ties are Required)	
Actual Hook Development (in)	18.46	Req'd Hook Development l_{dh} (in) - Tension	15.90
		Req'd Hook Development l_{dc} (in) - Compression	17.15

Flexure in Slab:

ϕM_n (ft-kips)	3416.7	M_u (ft-kips)	2958.3
a (in)	2.00		
Steel Ratio	0.00646		
β_1	0.825		
Maximum Steel Ratio (ρ_t)	0.0197		
Minimum Steel Ratio	0.0018		
Rebar Development in Pad (in)	108.00	Required Development in Pad (in)	34.08

Condition	1 is OK, 0 Fails
Maximum Soil Bearing Pressure	1
Pier Area of Steel	1
Pier Shear	1
Interaction Diagram	1
Two-Way Shear Action	1
One-Way Shear Action	1
Overtuning	1
Flexure	1
Steel Ratio	1
Length of Development in Pad	1
Hook Development	1
Anchor Bolt Pullout	1
Anchor Bolt Punching Shear	1

456845.lp11o

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LPILE for windows, Version 2019-11.004

Analysis of Individual Piles and Drilled Shafts
Subjected to Lateral Loading Using the p-y Method
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Sabre Towers and Poles

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Files Used for Analysis

Path to file locations:
\Program Files (x86)\Ensoft\Lpile2019\files\

Name of input data file:
456845.lp11d

Name of output report file:
456845.lp11o

Name of plot output file:
456845.lp11p

Name of runtime message file:
456845.lp11r

Date and Time of Analysis

Date: April 3, 2020

Time: 16:33:41

Problem Title

Site : Anneta Road, KY

Tower : 150' Monopole

Prepared for : AT&T

Job Number : 456845

Engineer : REB

Program Options and Settings

456845.1p11o

Computational Options:

- Conventional Analysis

Engineering Units Used for Data Input and Computations:

- US Customary System Units (pounds, feet, inches)

Analysis Control Options:

- Maximum number of iterations allowed = 999
- Deflection tolerance for convergence = 1.0000E-05 in
- Maximum allowable deflection = 100,0000 in
- Number of pile increments = 100

Loading Type and Number of Cycles of Loading:

- Static loading specified
- Use of p-y modification factors for p-y curves not selected
- Analysis uses layering correction (Method of Georgiadis)
- No distributed lateral loads are entered
- Loading by lateral soil movements acting on pile not selected
- Input of shear resistance at the pile tip not selected
- Input of moment resistance at the pile tip not selected
- Input of side resistance moment along pile not selected
- Computation of pile-head foundation stiffness matrix not selected
- Push-over analysis of pile not selected
- Buckling analysis of pile not selected

Output Options:

- Output files use decimal points to denote decimal symbols.
- Report only summary tables of pile-head deflection, maximum bending moment, and maximum shear force in output report file.
- No p-y curves to be computed and reported for user-specified depths
- Print using wide report formats

Pile Structural Properties and Geometry

Number of pile sections defined = 1
Total length of pile = 21.500 ft
Depth of ground surface below top of pile = 0.5000 ft

Pile diameters used for p-y curve computations are defined using 2 points.

p-y curves are computed using pile diameter values interpolated with depth over the length of the pile. A summary of values of pile diameter vs. depth follows.

Point No.	Depth Below Pile Head feet	Pile Diameter inches
1	0.000	96.0000
2	21.500	96.0000

Input Structural Properties for Pile Sections:

Pile Section No. 1:

Section 1 is a round drilled shaft, bored pile, or CIDH pile
Length of section = 21.500000 ft
Shaft Diameter = 96.000000 in
Shear capacity of section = 0.0000 lbs

Ground Slope and Pile Batter Angles

Ground Slope Angle = 0.000 degrees
= 0.000 radians
Pile Batter Angle = 0.000 degrees
= 0.000 radians

 Soil and Rock Layering Information

The soil profile is modelled using 4 layers

Layer 1 is stiff clay without free water

Distance from top of pile to top of layer	=	0.500000	ft
Distance from top of pile to bottom of layer	=	2.500000	ft
Effective unit weight at top of layer	=	120.000000	pcf
Effective unit weight at bottom of layer	=	120.000000	pcf
Undrained cohesion at top of layer	=	500.000000	psf
Undrained cohesion at bottom of layer	=	500.000000	psf
Epsilon-50 at top of layer	=	0.020000	
Epsilon-50 at bottom of layer	=	0.020000	

Layer 2 is stiff clay without free water

Distance from top of pile to top of layer	=	2.500000	ft
Distance from top of pile to bottom of layer	=	9.500000	ft
Effective unit weight at top of layer	=	120.000000	pcf
Effective unit weight at bottom of layer	=	120.000000	pcf
Undrained cohesion at top of layer	=	1500.	psf
Undrained cohesion at bottom of layer	=	1500.	psf
Epsilon-50 at top of layer	=	0.007000	
Epsilon-50 at bottom of layer	=	0.007000	

Layer 3 is stiff clay without free water

Distance from top of pile to top of layer	=	9.500000	ft
Distance from top of pile to bottom of layer	=	12.500000	ft
Effective unit weight at top of layer	=	135.000000	pcf
Effective unit weight at bottom of layer	=	135.000000	pcf
Undrained cohesion at top of layer	=	3000.	psf
Undrained cohesion at bottom of layer	=	3000.	psf
Epsilon-50 at top of layer	=	0.005000	
Epsilon-50 at bottom of layer	=	0.005000	

Layer 4 is stiff clay without free water

Distance from top of pile to top of layer	=	12.500000	ft
Distance from top of pile to bottom of layer	=	25.500000	ft
Effective unit weight at top of layer	=	135.000000	pcf
Effective unit weight at bottom of layer	=	135.000000	pcf
Undrained cohesion at top of layer	=	15000.	psf
Undrained cohesion at bottom of layer	=	15000.	psf
Epsilon-50 at top of layer	=	0.004000	
Epsilon-50 at bottom of layer	=	0.004000	

(Depth of the lowest soil layer extends 4.000 ft below the pile tip)

 Summary of Input Soil Properties

Layer Layer Num.	Soil Type Name (p-y Curve Type)	Layer Depth ft	Effective Unit wt. pcf	Undrained Cohesion psf	E50 or krm
1	Stiff clay w/o Free water	0.5000	120.0000	500.0000	0.02000
2	Stiff Clay w/o Free water	2.5000	120.0000	500.0000	0.02000
		2.5000	120.0000	1500.	0.00700
		9.5000	120.0000	1500.	0.00700
3	Stiff Clay w/o Free water	9.5000	135.0000	3000.	0.00500
		12.5000	135.0000	3000.	0.00500
4	Stiff Clay w/o Free water	12.5000	135.0000	15000.	0.00400
		25.5000	135.0000	15000.	0.00400

 Static Loading Type

Static loading criteria were used when computing p-y curves for all analyses.

 Pile-head Loading and Pile-head Fixity Conditions

Number of loads specified = 2

Load Analysis No.	Load Type	Condition 1	Condition 2	Axial Thrust Force, lbs	Compute Top y vs. Pile Length	Run
1	1	V = 59107. lbs	M = 90751360. in-lbs	88000.	No	
2	1	V = 12950. lbs	M = 19787400. in-lbs	55010.	No	

V = shear force applied normal to pile axis
 M = bending moment applied to pile head
 y = lateral deflection normal to pile axis
 S = pile slope relative to original pile batter angle
 R = rotational stiffness applied to pile head
 Values of top y vs. pile lengths can be computed only for load types with specified shear loading (Load Types 1, 2, and 3).
 Thrust force is assumed to be acting axially for all pile batter angles.

 Computations of Nominal Moment Capacity and Nonlinear Bending Stiffness

Axial thrust force values were determined from pile-head loading conditions

Number of Pile Sections Analyzed = 1

Pile Section No. 1:

 Dimensions and Properties of Drilled Shaft (Bored Pile):

Length of Section	=	21.500000 ft
Shaft Diameter	=	96.000000 in
Concrete Cover Thickness (to edge of long. rebar)	=	3.625000 in
Number of Reinforcing Bars	=	50 bars
Yield Stress of Reinforcing Bars	=	60000. psi
Modulus of Elasticity of Reinforcing Bars	=	29000000. psi
Gross Area of Shaft	=	7238. sq. in.
Total Area of Reinforcing Steel	=	63.338435 sq. in.
Area Ratio of Steel Reinforcement	=	0.88 percent
Edge-to-Edge Bar Spacing	=	4.222915 in
Maximum Concrete Aggregate Size	=	0.750000 in
Ratio of Bar Spacing to Aggregate Size	=	5.63
Offset of Center of Rebar Cage from Center of Pile	=	0.0000 in

 Axial Structural Capacities:

Nom. Axial Structural Capacity = $0.85 F_c A_c + F_y A_s$	=	31244.264 kips
Tensile Load for Cracking of Concrete	=	-3370.769 kips
Nominal Axial Tensile Capacity	=	-3800.306 kips

 Reinforcing Bar Dimensions and Positions Used in Computations:

Bar Number	Bar Diam. inches	Bar Area sq. in.	X inches	Y inches
1	1.270000	1.266769	43.740000	0.00000
2	1.270000	1.266769	43.395097	5.482076
3	1.270000	1.266769	42.365827	10.877696
4	1.270000	1.266769	40.668423	16.101768
5	1.270000	1.266769	38.329654	21.071906
6	1.270000	1.266769	35.386403	25.709727
7	1.270000	1.266769	31.885088	29.942090
8	1.270000	1.266769	27.880925	33.702249

			456845.1p110	
9	1.270000	1.266769	23.437064	36.930903
10	1.270000	1.266769	18.623586	39.577135
11	1.270000	1.266769	13.516403	41.599212
12	1.270000	1.266769	8.196059	42.965244
13	1.270000	1.266769	2.746457	43.653689
14	1.270000	1.266769	-2.746457	43.653689
15	1.270000	1.266769	-8.196059	42.965244
16	1.270000	1.266769	-13.516403	41.599212
17	1.270000	1.266769	-18.623586	39.577135
18	1.270000	1.266769	-23.437064	36.930903
19	1.270000	1.266769	-27.880925	33.702249
20	1.270000	1.266769	-31.885088	29.942090
21	1.270000	1.266769	-35.386403	25.709727
22	1.270000	1.266769	-38.329654	21.071906
23	1.270000	1.266769	-40.668423	16.101768
24	1.270000	1.266769	-42.365827	10.877696
25	1.270000	1.266769	-43.395097	5.482076
26	1.270000	1.266769	-43.740000	0.000000
27	1.270000	1.266769	-43.395097	-5.482076
28	1.270000	1.266769	-42.365827	-10.877696
29	1.270000	1.266769	-40.668423	-16.101768
30	1.270000	1.266769	-38.329654	-21.071906
31	1.270000	1.266769	-35.386403	-25.709727
32	1.270000	1.266769	-31.885088	-29.942090
33	1.270000	1.266769	-27.880925	-33.702249
34	1.270000	1.266769	-23.437064	-36.930903
35	1.270000	1.266769	-18.623586	-39.577135
36	1.270000	1.266769	-13.516403	-41.599212
37	1.270000	1.266769	-8.196059	-42.965244
38	1.270000	1.266769	-2.746457	-43.653689
39	1.270000	1.266769	2.746457	-43.653689
40	1.270000	1.266769	8.196059	-42.965244
41	1.270000	1.266769	13.516403	-41.599212
42	1.270000	1.266769	18.623586	-39.577135
43	1.270000	1.266769	23.437064	-36.930903
44	1.270000	1.266769	27.880925	-33.702249
45	1.270000	1.266769	31.885088	-29.942090
46	1.270000	1.266769	35.386403	-25.709727
47	1.270000	1.266769	38.329654	-21.071906
48	1.270000	1.266769	40.668423	-16.101768
49	1.270000	1.266769	42.365827	-10.877696
50	1.270000	1.266769	43.395097	-5.482076

NOTE: The positions of the above rebars were computed by LPile

Minimum spacing between any two bars not equal to zero = 4.223 inches between bars 1 and 50.

Ratio of bar spacing to maximum aggregate size = 5.63

Concrete Properties:

Compressive Strength of Concrete	=	4500. psi
Modulus of Elasticity of Concrete	=	3823676. psi
Modulus of Rupture of Concrete	=	-503.115295 psi
Compression Strain at Peak Stress	=	0.002001
Tensile Strain at Fracture of Concrete	=	-0.0001152
Maximum Coarse Aggregate Size	=	0.750000 in

Number of Axial Thrust Force values Determined from Pile-head Loadings = 2

Number	Axial Thrust Force kips
1	55.010
2	88.000

Summary of Results for Nominal Moment Capacity for Section 1

Moment values interpolated at maximum compressive strain = 0.003 or maximum developed moment if pile fails at smaller strains.

Load	Axial Thrust	Nominal Mom. Cap.	Max. Comp.
------	--------------	-------------------	------------

No.	kips	in-kip	Strain
1	55.010	154534.233	0.00300000
2	88.000	155680.573	0.00300000

Note that the values of moment capacity in the table above are not factored by a strength reduction factor (ϕ -factor).

In ACI 318, the value of the strength reduction factor depends on whether the transverse reinforcing steel bars are tied hoops (0.65) or spirals (0.70).

The above values should be multiplied by the appropriate strength reduction factor to compute ultimate moment capacity according to ACI 318, Section 9.3.2.2 or the value required by the design standard being followed.

The following table presents factored moment capacities and corresponding bending stiffnesses computed for common resistance factor values used for reinforced concrete sections.

Axial Load No.	Resist. Factor for Moment	Nominal Moment Cap in-kips	Ult. (Fac) Ax. Thrust kips	Ult. (Fac) Moment Cap in-kips	Bend. Stiff. at Ult Mom kip-in ²
1	0.65	154534.	35.756500	100447.	3.6116E+09
2	0.65	155681.	57.200000	101192.	3.6413E+09
1	0.75	154534.	38.507000	115901.	3.4830E+09
2	0.75	155681.	61.600000	116760.	3.5126E+09
1	0.90	154534.	41.257500	139081.	2.2971E+09
2	0.90	155681.	66.000000	140113.	2.3188E+09

Layering Correction Equivalent Depths of Soil & Rock Layers

Layer No.	Top of Layer Below Pile Head ft	Equivalent Top Depth Below Grnd Surf ft	Same Layer Type As Layer Above	Layer is Rock or is Below Rock Layer	F0 Integral for Layer lbs	F1 Integral for Layer lbs
1	0.5000	0.00	N.A.	No	0.00	26503.
2	2.5000	0.7238	Yes	No	26503.	302762.
3	9.5000	4.2627	Yes	No	329265.	260297.
4	12.5000	1.6072	Yes	No	589562.	N.A.

Notes: The F0 integral of Layer n+1 equals the sum of the F0 and F1 integrals for Layer n. Layering correction equivalent depths are computed only for soil types with both shallow-depth and deep-depth expressions for peak lateral load transfer. These soil types are soft and stiff clays, non-liquefied sands, and cemented c-phi soil.

Summary of Pile-head Responses for Conventional Analyses

Definitions of Pile-head Loading Conditions:

Load Type 1: Load 1 = Shear, V, lbs, and Load 2 = Moment, M, in-lbs
 Load Type 2: Load 1 = Shear, V, lbs, and Load 2 = Slope, S, radians
 Load Type 3: Load 1 = Shear, V, lbs, and Load 2 = Rot. Stiffness, R, in-lbs/rad.
 Load Type 4: Load 1 = Top Deflection, y, inches, and Load 2 = Moment, M, in-lbs
 Load Type 5: Load 1 = Top Deflection, y, inches, and Load 2 = Slope, S, radians

Load Case No.	Load Type	Pile-head Load 1	Load Type 2	Pile-head Load 2	Axial Loading lbs	Pile-head Deflection inches	Pile-head Rotation radians	Max Shear in Pile lbs	Max Moment in Pile in-lbs
1	V, lb	59107.	M, in-lb	9.08E+07	88000.	12.5935	-0.06579	-1174736.	9.30E+07
2	V, lb	12950.	M, in-lb	1.98E+07	55010.	0.04002	-2.98E-04	-235141.	2.02E+07

Maximum pile-head deflection = 12.5935085583 inches
 Maximum pile-head rotation = -0.0657858979 radians = -3.769254 deg.

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Summary of Warning Messages

The following warning was reported 966 times

**** Warning ****

An unreasonable input value for shear strength has been specified for a layer defined using the stiff clay without free water criteria. The input value is greater than 8000 psf. Please check your input data for correctness.

The analysis ended normally.

1807.3.2.1 (2009 IBC, 2012 IBC, & 2015 IBC)

Moment (ft-k)	5,671.96	
Shear (k)	44.33	
Caisson diameter (ft)	8	
Caisson height above ground (ft)	0.5	
Caisson height below ground (ft)	21	
Lateral soil pressure (lb/ft ²)	685.71	
Ground to application of force, h (ft)	128.45	
Applied lateral force, P (lb)	44,330	
Lateral soil bearing pressure, S _r (lb/ft)	4,800.00	
Diameter, b (ft)	8	
A	2.70	= (2.34P)/(S _r b)
Minimum depth of embedment, d (ft)	20.85	= 0.5A [1 + (1 + (4.36h / A)) ^{1.2}]

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
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▼ Active ▼

View	4111300	2600Hz, Inc. dba ZSWITCH	Cellular D	San Francisco CA
View	4108300	Air Voice Wireless, LLC	Cellular B	Bloomfield Hill MI
View	4110650	Alliant Technologies of KY, L.L.C.	Cellular D	Morristown NJ
View	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular A	Lisle IL
View	4110850	AltaWorx, LLC	Cellular D	Fairhope AL
View	4107800	American Broadband and Telecommunications Company	Cellular D	Toledo OH
View	4108650	AmeriMex Communications Corp.	Cellular D	Dunedin FL
View	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular D	Virginia Beach VA
View	4110700	Andrew David Balholm dba Norcell	Cellular D	Clayton WA
View	4105700	Assurance Wireless USA, L.P.	Cellular A	Atlanta GA
View	4108600	BCN Telecom, Inc.	Cellular D	Morristown NJ
View	4110550	Blue Casa Mobile, LLC	Cellular D	Santa Barbara CA
View	4111050	BlueBird Communications, LLC	Cellular D	New York NY
View	4202300	Bluegrass Wireless, LLC	Cellular A	Elizabethtown KY
View	4107600	Boomerang Wireless, LLC	Cellular D	Hiawatha IA
View	4105500	BullsEye Telecom, Inc.	Cellular D	Southfield MI
View	4100700	Cellco Partnership dba Verizon	Cellular A	Basking NJ

Wireless			Ridge	
View	4106600	Cintex Wireless, LLC	Cellular D	Rockville MD
View	4111150	Comcast OTR1, LLC	Cellular C	Philadelphia PA
View	4101900	Consumer Cellular, Incorporated	Cellular A	Portland OR
View	4106400	Credo Mobile, Inc.	Cellular A	San Francisco CA
View	4108850	Cricket Wireless, LLC	Cellular A	San Antonio TX
View	4111500	CSC Wireless, LLC d/b/a Altice Wireless	Cellular C	Long Island City NY
View	10640	Cumberland Cellular Partnership	Cellular A	Elizabethtown KY
View	4111650	DataBytes, Inc.	Cellular D	Rogers AR
View	4111200	Dynalink Communications, Inc.	Cellular C	Brooklyn NY
View	4111800	Earthlink, LLC	Cellular C	Atlanta GA
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	4111750	Gabb Wireless, Inc.	Cellular C	Palo Alto CA
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	4111350	HELLO MOBILE TELECOM LLC	Cellular D	Dania Beach FL
View	4103100	i-Wireless, LLC	Cellular B	Newport KY
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular D	Dallas TX
View	22215360	KDDI America, Inc.	Cellular D	Staten Island 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	4111250	Liberty Mobile Wireless, LLC	Cellular D	Sunny Isles Beach FL
View	4111550	Lingo Telecom of the South, LLC	Cellular D	Irving TX

View	4111400	Locus Telecommunications, LLC	Cellular A	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	4111700	Mint Mobile, LLC	Cellular D	Costa Mesa	CA
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	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	Chicago	IL
View	4109050	Patriot Mobile LLC	Cellular D	Irving	TX
View	4110250	Plintron Technologies USA LLC PNG Telecommunications, Inc.	Cellular D	Bellevue	WA
View	33351182	dba PowerNet Global Communications	Cellular D	Cincinnati	OH
View	4107700	Puretalk Holdings, LLC	Cellular A	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular A	Dania	FL
View	4108700	Ready Wireless, LLC	Cellular C	Hiawatha	IA
View	4110500	Republic Wireless, Inc.	Cellular A	Raleigh	NC
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	Fremont	NE
View	4110150	Spectrotel, Inc. d/b/a Touch Base Communications	Cellular D	Neptune	NJ
View	4111450	Spectrum Mobile, LLC	Cellular A	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	4111600	STX Group LLC dba Twigby	Cellular D	Murfreesboro	TN
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	Plano	TX
View	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular D	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 B	Atlanta	GA
View	4109000	Ting, Inc.	Cellular A	Toronto	ON
	4110400	Torch Wireless Corp.	Cellular D	Jacksonville	FL

View					
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	4110800	Visible Service LLC	Cellular D	Basking Ridge	NJ
View	4106500	WiMacTel, Inc.	Cellular D	Palo Alto	CA
View	4110950	Wing Tel Inc.	Cellular D	New York	NY

EXHIBIT E
FAA



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

Aeronautical Study No.
 2019-ASO-35410-OE

Issued Date: 02/18/2020

SHERI WILLIAMS
 AT&T (SW)
 208 S Akard St.
 21st FL
 Dallas, TX 75202

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

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

Structure: Antenna Tower Anetta Road
 Location: LEITCHFIELD, KY
 Latitude: 37-24-17.80N NAD 83
 Longitude: 86-14-17.10W
 Heights: 827 feet site elevation (SE)
 156 feet above ground level (AGL)
 983 feet above mean sea level (AMSL)

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

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

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

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

This determination expires on 08/18/2021 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (817) 222-5928, or chris.smith@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ASO-35410-OE.

Signature Control No: 423957308-430921634

(DNE)

Chris Smith
Specialist

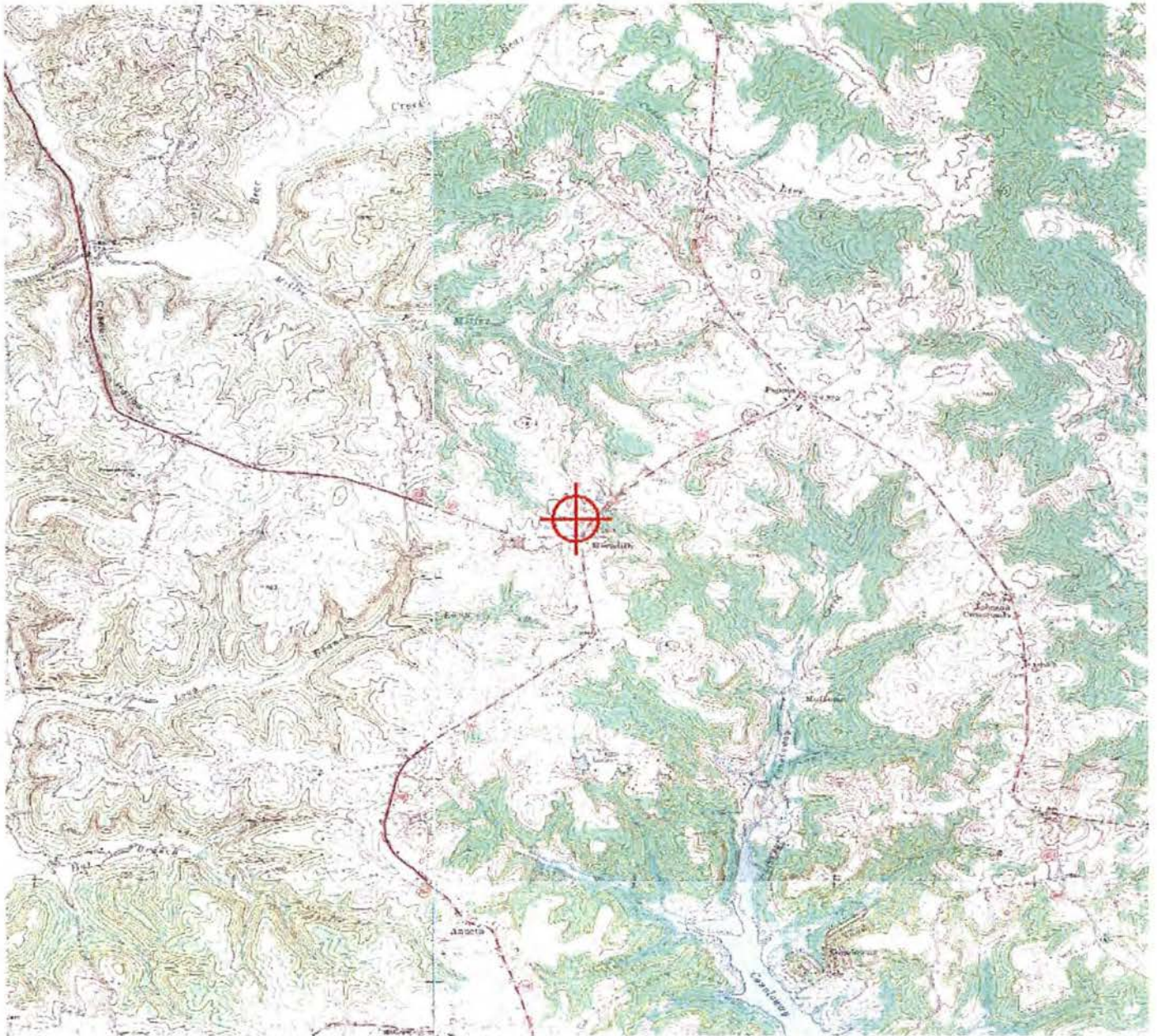
Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2019-ASO-35410-OE

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

TOPO Map for ASN 2019-ASO-35410-OE



Sectional Map for ASN 2019-ASO-35410-OE



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) Cody Knox		PHONE 318-355-6599	FAX N/A		
ADDRESS (street) 1975 Joe B Jackson Pkwy		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 37° 24' 17.8 "		LONGITUDE 86° 14' 17.1 "		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY City Leitchfield County Grayson		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT LEITCHFIELD-GRAYSON CO (M20)			
SITE ELEVATION (AMSL, feet) 827		TOTAL STRUCTURE HEIGHT (AGL, feet) 156		CURRENT (FAA aeronautical study #) 2019-ASO-35410-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 983				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 1.15 NM				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) 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 150' cell tower with a 6' lightning rod for an overall height of 156'.					
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? 2/18/2020					
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 2/18/2020	
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

Date: March 27, 2020

POD Job Number: 20-58521

GEOTECHNICAL REPORT

ANNETA ROAD

(14636401)

37° 24' 17.81" N

86° 14' 17.13" W

6918 Anneta Road,
Leitchfield, KY 42754

Prepared For:



Prepared By:





March 27, 2020

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

Re: Geotechnical Report – **PROPOSED 150' MONOPOLE TOWER w/ 6' LIGHTNING ARRESTOR**
Site Name: **ANNETA ROAD (14636401)**
Site Address: 6918 Anneta Road, Leitchfield, Grayson County, Kentucky
Coordinates: N37° 24' 17.81", W86° 14' 17.13"
POD Project No. 20-58521

Dear Ms. Ward:

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

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

Cordially,

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

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



Copies submitted: (3) Ms. Michelle Ward

LETTER OF TRANSMITTAL

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APPENDIX

- BORING LOCATION PLAN
- BORING LOGS
- SOIL SAMPLE CLASSIFICATION

Geotechnical Report
PROPOSED 150' MONOPOLE TOWER w/ 6' LIGHTNING ARRESTOR

Site Name: **ANNETA ROAD (14636401)**
6918 Anneta Road, Leitchfield, Grayson County, Kentucky
N37° 24' 17.81", W86° 14' 17.13"

1. PURPOSE AND SCOPE

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

2. PROJECT CHARACTERISTICS

AT&T is proposing to construct a monopole tower and either an equipment shelter, slab or platform at N37° 24' 17.81", W86° 14' 17.13", 6918 Anneta Road, Leitchfield, Grayson County, Kentucky. The site is located on a hillside in a farm field in a rural area of Grayson County between Leitchfield to the north and Nolan Lake to the south. The proposed lease area will be 10,000 square feet and will be accessed by a new road off from Anneta Road running north to the site. The elevation at the proposed tower location is about EL 826 and there is about 8-feet of change in elevation across the proposed lease area. The development will also include a small equipment shelter near the base of the tower. The proposed tower location is shown on the Boring Location Plan in the Appendix.

3. SUBSURFACE CONDITIONS

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

According to the Kentucky Geological Survey, Kentucky Geologic Map Information Services, the site is underlain by the Middle Pennsylvanian age Tradewater and Caseyville Formation. The formation is made up of mixed clastics of shale, siltstone, sandstone, and clay and is non-karst.

The borings encountered about 6 to 8 inches of topsoil at the existing ground surface. Below the topsoil, the borings encountered silty clay (CL) to clay (CH) of medium to high plasticity. The SPT N-values in the clay were between 4 and 15 blows per foot (bpf) generally indicating a soft to stiff consistency. Boring 1 encountered highly weathered clayshale at about 9 feet. The borings encountered auger refusal in the clay or clayshale between 8.2 and 10.8 feet. Auger refusal is defined as the depth at which the boring can no longer be advanced using the current drilling method.

Geotechnical Report

ANNETA ROAD
March 27, 2020

The refusal material was cored in Boring T-1 from 10.8 to 25.8 feet below the ground surface. Shale that was hard, slightly weathered, thin bedded and black with thin limestone partings was encountered. The recoveries of the cores were about 97 to 98 percent with RQD values of 18 and 50 percent. These values generally represent fair quality rock from a foundation support viewpoint.

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

Based on the limited subsurface conditions encountered at the site and using Table 1615.1.1 of the 2018 Kentucky Building Code, the site class is considered "C". Seismic design requirements for telecommunication towers are given in section 1622 of the code. A detailed seismic study was beyond the scope of this report.

4. FOUNDATION DESIGN RECOMMENDATIONS

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

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

4.1. Proposed Tower

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

4.1.1. Drilled Piers

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

Depth Below Ground Surface, feet	0 - 2	2 - 9	9 - 12	12 - 25
Ultimate Bearing Pressure (psf)		8,300	16,500	83,000
c	500	1500	3000	15,000
Undrained Shear Strength, psf				
ϕ	0	0	0	0
Angle of Internal Friction degrees				
Total Unit Weight, pcf	120	120	135	135
Soil Modulus Parameter k, pci	30	750	1000	2000
Passive Soil Pressure, psf/one foot of depth		1,000 + 40(D-2)	2,000 + 45(D-9)	10,000 + 45(D-12)
Side Friction, psf		300	800	1200

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

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

4.1.2. Mat Foundation

The tower could be supported on a common mat foundation bearing on the silty clay at a minimum of 4 feet can be designed using an allowable soil pressure of 4,000 pounds per square foot may be used. This value may be increased by 30 percent for the maximum edge pressure under transient loads. A friction value of 0.30 may be used between the

concrete and the silty clay soil. The passive pressures given for the drilled pier foundation may be used to resist lateral forces.

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

4.2. Equipment Platform

An equipment platform may be supported on shallow piers bearing in the natural clay and designed for a net allowable soil pressure of 2,500 pounds per square foot. The piers should bear at a depth of at least 24 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

4.3. Equipment Slab

A concrete slab supporting the equipment must be supported on at least 6-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 6 in. of granular material is placed below the slab, a modulus of subgrade reaction (k30) of 110 lbs/cu.in. can be used for design of the slab. All existing topsoil or soft natural soil should be removed beneath crushed stone layer.

4.4. Equipment Building

If an equipment building support on a slab is chosen in place of the equipment platform, it may be supported on shallow spread footings bearing in the natural clay soil and designed for a net allowable soil pressure of 2,500 pounds per square foot.

The footings should be at least ten inches wide. If the footings bear on soil, they should bear at a depth of at least 24 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

The floor slab for the new equipment building can be supported on firm natural soils or on new compacted structural fill. Floor slabs must be supported on at least 4-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of

4 in. of granular material is placed below the slab, a modulus of subgrade reaction (k_{30}) of 110 lbs/cu.in. can be used for design of the floor slabs.

4.5. Drainage and Groundwater Considerations

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

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

5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS

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

5.1 Drilled Piers

The following recommendations are recommended for drilled pier construction:

- ✎ All piers must be poured the same day drilling is completed so that any shale is not allowed to swell. Clean the foundation bearing area so it is nearly level or suitably benched and is free of ponded water or loose material.
- ✎ Make provisions for ground water removal from the drilled shaft excavation. While the borings were dry prior to rock coring and significant seepage is not anticipated, the drilled pier contractor should have pumps on hand to remove water in the event seepage into the drilled pier is encountered.
- ✎ Specify concrete slumps ranging from 4 to 7 inches for the drilled shaft construction. These slumps are recommended to fill irregularities along the sides and bottom of the drilled hole, displace water as it is placed, and permit placement of reinforcing cages into the fluid concrete.

- Retain the geotechnical engineer to observe foundation excavations after the bottom of the hole is leveled, cleaned of any mud or extraneous material, and dewatered.
- Install a temporary protective steel casing to prevent side wall collapse, prevent excessive mud and water intrusion in the drilled shaft.
- The protective steel casing may be extracted as the concrete is placed provided a sufficient head of concrete is maintained inside the steel casing to prevent soil or water intrusion into the newly placed concrete.
- Direct the concrete placement into the drilled hole through a centering chute to reduce side flow or segregation.

5.2 Fill Compaction

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

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

5.3 Construction Dewatering

If groundwater is encountered in the shallow foundations, it should be minor and can be handled by conventional dewatering methods such as pumping from sumps.

If groundwater is encountered in the drilled pier excavations, it may be more difficult since pumping directly from the excavations could cause a deterioration of the bottom of the excavation. If the pier excavations are not dewatered, concrete should be placed by the tremie method. If groundwater sits on the bottom of the foundation for longer than an hour, the bottom should be cleaned again before the pier is poured.

6 FIELD INVESTIGATION

Three soil test borings were drilled near the base of the proposed tower. Split-spoon samples were obtained by the Standard Penetration Test (SPT) procedure (ASTM D1586) in all test borings. The borings encountered auger refusal between 8.2 and 10.8 feet. A sample of the refusal material was cored in Boring T-1 from 10.8 to 25.8 feet below the ground surface. The split-spoon samples were inspected and visually classified by a geotechnical engineer. Representative portions of the soil samples were sealed in glass jars and returned to our laboratory.

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

7 WARRANTY AND LIMITATIONS OF STUDY

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

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

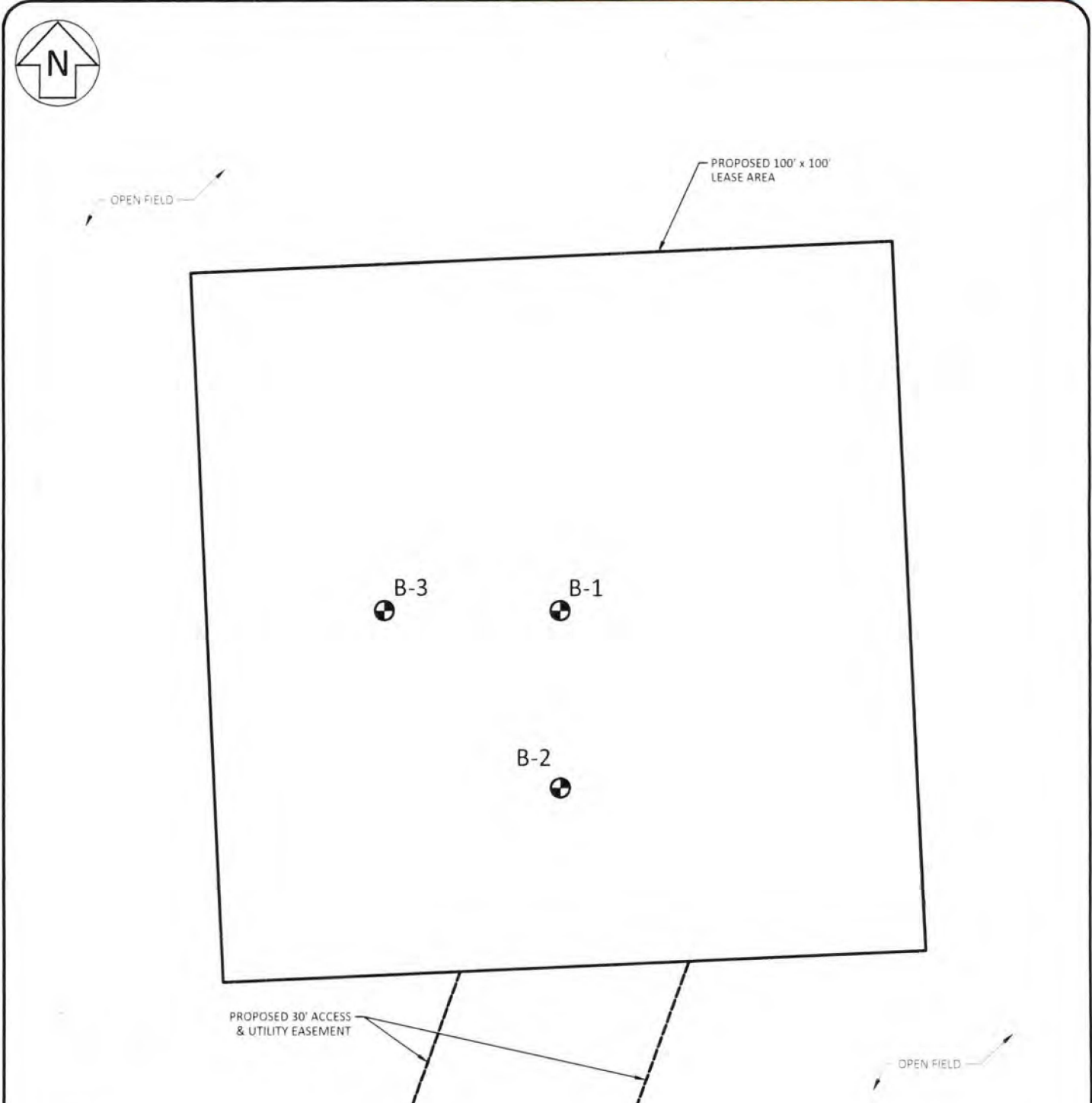
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions and to check that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

APPENDIX


BORING LOCATION PLAN

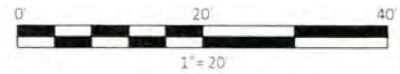
BORING LOGS



SOIL SAMPLE CLASSIFICATION



LEGEND

 BORING LOCATION



SHEET TITLE: BORING LOCATION PLAN	FA NUMBER: 14636401	SITE INFORMATION: ANNETA ROAD 6918 ANNETA ROAD LEITCHFIELD, KY 42754 GRAYSON COUNTY	PREPARED BY:  11490 BLUEGRASS PKWY LOUISVILLE, KY 40299 502-437-5252
	LATITUDE: 37° 24' 17.81" LONGITUDE: -86° 14' 17.13"		
SHEET NUMBER: 1	POD NUMBER: 20-58521 DRAWN BY: KDP CHECKED BY: MEP DATE: 3.26.20	PREPARED FOR: 	



Boring Log

Boring: B-1

Page 1 of 1

Project: Anneta Road

City, State

Leitchfield, KY

Method: H.S.A.

Boring Date: 12-Sep-19

Location: Proposed Tower Center

Inside Diameter: 3 1/4"

Drill Rig Type: D-50

Hammer Type: Auto

Groundwater: DRY

Weather:

Driller: Strata Group, LLC

Note: About 6 inches of topsoil were encountered at the existing ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.5	4.0	SILTY CLAY (CL) - soft, moist, light brown - medium stiff, dry	0 - 1.5	SS	2, 1, 3	16	4,			23%		2.4
	1.5		1.5 - 3	SS	4, 5, 3	16	8,			18%		6.0
4.0	8.2	CLAY (CH) - medium stiff, slight moist, brown-light gray - stiff	4 - 5.5	SS	3, 4, 6	12	10,			25%		3.8
	6.5		6.5 - 8	SS	5, 7, 6	16	13,			22%		4.8
		Auger Refusal at 8.2 feet										



Boring Log

Boring: B-2

Page 1 of 1

Project: Anneta Road

City, State

Leitchfield, KY

Method: H.S.A.

Boring Date: 12-Sep-19

Location: Proposed Tower Center

Inside Diameter: 3 1/4"

Drill Rig Type: D-50

Hammer Type: Auto

Groundwater: DRY

Weather:

Driller: Strata Group, LLC

Note: About 8 inches of topsoil were encountered at the existing ground surface

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD, %)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.6	4.0	SILTY CLAY (CL) - medium stiff, moist, light brown - stiff	0 - 1.5	SS	2, 2, 3	12	5,			27%		1.9
	1.5		1.5 - 3	SS	4, 5, 6	12	11,			27%		1.2
4.0	8.7	CLAY (CH) - stiff, brown-light gray with clayshale	4 - 5.5	SS	4, 5, 6	10	11,			20%		4.8
			6.5 - 8	SS	6, 6, 8	16	14,			22%		5.1
		Auger Refusal at 8.7 feet										

SOIL SAMPLE CLASSIFICATION

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

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

ROCK PROPERTIES

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

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

SYMBOLS

KEY TO MATERIAL TYPES

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

ROCKS	
Symbols	Typical Names
	Limestone or Dolomite
	Shale
	Sandstone

SOIL PROPERTY SYMBOLS

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

SAMPLING SYMBOLS

- SS Solit Spoon Sample
- Relatively Undisturbed Sample
- Rock Core Sample

EXHIBIT H
DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at 10 Public Square, Leitchfield, KY 42754, head south on Public Square toward South Main Street and travel approximately 108 feet.
2. Follow Public Square as it turns slightly right and become South Main Street. Travel approximately 1 mile.
3. Continue onto KY-259 S / Anneta Road and travel approximately 6 miles.
4. The site is on the left at 7030 Anneta Road, Leitchfield, KY 42754.
5. The site coordinates are:
 - a. North 37 deg 24 min 17.81 sec
 - b. West 86° deg 14 min 17.13 sec



Prepared by:
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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: 234217
Cell Site Name: Anneta Road
Search Ring Name: Anneta Road
Fixed Asset Number: 1463640

OPTION AND LAND LEASE AGREEMENT

THIS OPTION AND LAND LEASE AGREEMENT ("Agreement"), dated as of the latter of the signature dates below (the "Effective Date"), is entered into by Perry Alexander and Freda Alexander, husband and wife, having a mailing address of 6918 Anneta Road, Leitchfield, Kentucky 42754, ("Landlord") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 1025 Lenox Park Blvd., NE, 3rd Floor, Atlanta, GA 30319 ("Tenant").

BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, as described on **Exhibit 1**, together with all rights and privileges arising in connection therewith, located at 6918 Anneta Road, Leitchfield, KY 42754, in the County of Grayson, State of Kentucky (collectively, the "Property"). 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 exclusive option (the "Option") to lease a certain portion of the Property containing approximately 10,000 square feet including the air space above such ground space, as described on attached **Exhibit 1**, (the "Premises"), for the placement of a Communication Facility in accordance with the terms of this Agreement.

(b) During the Option Term, and during the Term, 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 sixty (60) business days after the Effective Date. The Option will be for an initial term of one (1) year commencing on the Effective Date (the "Initial Option Term") which term 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 or the Renewal Option Term, as applicable. 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 without the written consent of Landlord. Upon notification to Landlord of such sale, assignment or transfer, 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, then 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 if the Option is exercised, Landlord decides to subdivide, sell, or change the status of the zoning of the Premises, the Property or any of Landlord's contiguous, adjoining or surrounding property (the "**Surrounding Property**"), or in the event of a threatened foreclosure on any of the foregoing, Landlord shall immediately notify Tenant in writing. Landlord agrees that during the Option Term, or during the Term if the Option is exercised, Landlord shall not initiate or consent to any change in the zoning of the Premises, the Property or the 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 communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable support structure ("**Structure**"), associated antennas, equipment shelters or cabinets and fencing and any other items necessary to the successful and secure use of the Premises (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, (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 Landlord's contiguous, adjoining or surrounding property (the "**Surrounding Property**") 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, install a generator 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 or equipment, install warning signs to make individuals aware of risks, install protective barriers, install any other control measures reasonably required by Tenant's safety procedures or applicable law, and undertake any other appropriate means to secure the Premises or equipment at Tenant's expense. Tenant has the right to modify, supplement, replace, upgrade, expand the Communication Facility (including, for example, increasing the number of antennas or adding microwave dishes) or relocate the Communication Facility within the Premises at any time during the Term. Tenant will be allowed to make such alterations to the Property in order to ensure that the Communication Facility complies with all applicable federal, state or local laws, rules or regulations. In the event Tenant desires to modify or upgrade the Communication Facility, in a manner that requires an additional portion of the Property (the "**Additional Premises**") for such modification or upgrade, Landlord agrees to lease to Tenant the Additional Premises, upon the same terms and conditions set forth herein, except that the Rent shall increase, in conjunction with the lease of the Additional Premises by the amount equivalent to the then-current per square foot rental rate charged by Landlord to Tenant times the square footage of the Additional Premises. Landlord agrees to take such actions and enter into and deliver to Tenant such documents as Tenant reasonably requests in order to effect and memorialize the lease of the Additional Premises to Tenant.

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 seventeen (17) additional five (5) year term(s) (each additional five (5) year term shall be defined as an "Extension Term"), upon the same terms and conditions set forth herein 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 the 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, 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 hereto by giving to the other party hereto written notice of its intention to so terminate at least six (6) months prior to the end of any such Annual Term. Monthly rent 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."

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, the 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) Upon the commencement 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 the 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 the Permitted Use 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 05 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: Section 5 Approvals, Section 6(a) Termination, Section 6(b) Termination, Section 6(c) Termination, Section 6(d) Termination, Section 11(d) Environmental, Section 08 Condemnation or Section 19 Casualty.

7. **INSURANCE.** During the Option Term and throughout the Term, Tenant will purchase and maintain in full force and effect such general liability policy as Tenant may deem necessary. Said policy of general liability insurance will at a minimum provide a combined single limit of [REDACTED]

[REDACTED] Notwithstanding the foregoing, Tenant shall have the right to self-insure such general liability coverage.

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 the 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 Effective Date, 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, costs or expenses in connection with a third party claim (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, invitees, 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, costs or expenses in connection with a third party claim (including reasonable attorneys' fees and court costs) arising directly from the actions or failure to act of Landlord, its employees, invitees, agents or independent contractors, 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 9 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) Each of Tenant and Landlord (to the extent not a natural person) each acknowledge and represent that it is duly organized, validly existing and in good standing and has the right, power, and authority or capacity, as applicable, to enter into this Agreement and bind itself hereto through the party or individual 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) then Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises in accordance with the terms of this Agreement 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, then 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 in the form attached hereto as **Exhibit 10(b)**.

11. ENVIRONMENTAL.

(a) Landlord represents and warrants, except as may be identified in **Exhibit 11** attached to this Agreement, (i) the Property, as of the Effective Date, 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 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 indemnification provisions contained in 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 01 will survive the expiration or termination of this Agreement.

(d) In the event Tenant becomes aware of any hazardous materials 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, then 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, 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 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. If Tenant elects to utilize an Unmanned Aircraft System ("UAS") in connection with its installation, construction, monitoring, site audits, inspections, maintenance, repair, modification, or alteration activities at a Property, Landlord hereby grants Tenant, or any UAS operator acting on Tenant's behalf, express permission to fly over the applicable Property and Premises, and consents to the use of audio and video navigation and recording in connection with the use of the UAS. 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] per day in consideration of Tenant's damages until Landlord cures such default. Landlord and Tenant agree that Tenant's damages in the event of a denial of Access are difficult, if not impossible, to ascertain, and the liquidated damages set forth above are a reasonable approximation of such damages.

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

14. MAINTENANCE/UTILITIES.

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

(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 sub-meter from Landlord. When sub-metering is required under this Agreement, Landlord will read the meter and provide Tenant with an invoice and usage data on a monthly basis. Tenant shall reimburse Landlord for such utility usage at the same rate charged to Landlord by the utility service provider. 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 sixty (60) days of receipt of the usage data and required forms. Landlord shall maintain accurate and detailed records of all utility expenses, invoices and payments applicable to Tenant's reimbursement obligations hereunder. Within fifteen (15) days after a request from Tenant, Landlord shall provide copies of such utility billing records to the Tenant in the form of copies of invoices, contracts and cancelled checks. If the utility billing records reflect an overpayment by Tenant, Tenant shall have the right to deduct the amount of such overpayment from any monies due to Landlord from Tenant.

(c) 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.

(d) Tenant will have the right to install utilities, at Tenant's expense, and to improve present utilities on the Property and the Premises. Landlord hereby grants to any service 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 service companies may from time to time require in order to provide such services to the Premises. Upon Tenant's or 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, then 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 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 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 hereto as follows:

If to Tenant: New Cingular Wireless PCS, LLC
 Attn: Network Real Estate Administration
 Re: Cell Site #: 234217; Cell Site Name: Anneta Rd (KY)
 Fixed Asset #: 14636401
 1025 Lenox Park Blvd., NE
 3rd Floor
 Atlanta, Georgia 30319

With a copy to: New Cingular Wireless PCS, LLC
 Attn.: Legal Dept – Network Operations
 Re: Cell Site #: 234217; Cell Site Name: Anneta Rd (KY)
 Fixed Asset #: 14636401
 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: Perry & Freda Alexander
 6918 Anneta Road
 Leitchfield, KY 42754

Either party hereto may change the place for the giving of notice to it by thirty (30) days' prior written notice to the other party hereto 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 twenty-four (24) 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 *pro rata* basis.

19. **CASUALTY.** Landlord will provide notice to Tenant of any casualty or other harm affecting the Property within twenty-four (24) hours of the casualty or other harm. If any part of the Communication Facility or the 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 *pro rata* 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 this 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 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 19, 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 (i) all taxes and assessments levied upon the lands, improvements and other property of Landlord including any such taxes that may be calculated by a taxing authority using any method, including the income method, (ii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with this Agreement, and (iii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with a sale of the Property or assignment of Rent payments by Landlord. Tenant shall be responsible for (y) 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 and (z) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with an assignment of this Agreement or sublease by Tenant. 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 in a timely manner and Tenant's rights with respect to such taxes are prejudiced by the delay, Landlord shall reimburse Tenant for any increased costs directly resulting from the delay and 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 permitted by law. 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. Promptly after the Effective Date, 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 address changes by notice to Landlord, Landlord shall be required to provide Tenant's new tax address to the taxing authority or authorities.

(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 may sell the Property or a portion thereof to a third party, provided: (i) the sale is made subject to the terms of this Agreement; and (ii) if the sale does not include the assignment of Landlord's full interest in this Agreement, the purchaser must agree to perform, without requiring compensation from Tenant or any subtenant, any obligation of Landlord under this Agreement, including Landlord's obligation to cooperate with Tenant as provided hereunder.

(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 the 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 Section 2222(b) to Tenant. Until Tenant receives all such documents, Tenant's failure to make payments under this Agreement shall not be an event of default and Tenant 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 Tenant 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 the Surrounding Property for the installation, operation or maintenance of other wireless communication 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 communication facility or equipment.

(d) The provisions of this Section 22 shall in no way limit or impair the obligations of Landlord under this Agreement, including interference and access obligations.

23. RIGHT OF FIRST REFUSAL. Notwithstanding the provisions contained in Section 22, if at any time after the Effective Date, Landlord receives a bona fide written offer from a third party seeking any sale, conveyance, assignment or transfer, whether in whole or in part, of any property interest in or related to the Premises, including without limitation any offer seeking an assignment or transfer of the Rent payments associated with this Agreement or an offer to purchase an easement with respect to the Premises ("**Offer**"), Landlord shall immediately furnish Tenant with a copy of the Offer. Tenant shall have the right within ninety (90) days after it receives such copy to match the financial terms of the Offer and agree in writing to match such terms of the Offer. Such writing shall be in the form of a contract substantially similar to the Offer but Tenant may assign its rights to a third party. If Tenant chooses not to exercise this right or fails to provide written notice to Landlord within the ninety (90) day period, Landlord may sell, convey, assign or transfer such property interest in or related to the Premises pursuant to the Offer, subject to the terms of this Agreement. If Landlord attempts to sell, convey, assign or transfer such property interest in or related to the Premises without complying with this Section 23, the sale, conveyance, 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 23. Tenant's failure to exercise the right of first refusal shall not be deemed a waiver of the rights contained in this Section 23 with respect to any future proposed conveyances as described herein.

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 of Lease.** Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum of Lease substantially in the form attached as **Exhibit 24(b)**. Either party may record this Memorandum of Lease at any time during the Term, in its absolute discretion. Thereafter during the Term, 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 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 the 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 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.

(o) **No Additional Fees/Incidental Fees.** Unless otherwise specified in this Agreement, all rights and obligations set forth in the Agreement shall be provided by Landlord and/or Tenant, as the case may be, at no additional cost. No unilateral fees or additional costs or expenses are to be applied by either party to the other party, for any task or service including, but not limited to, review of plans, structural analyses, consents, provision of documents or other communications between the parties.

(p) **Further Acts.** Upon request, Landlord will cause to be promptly and duly taken, executed, acknowledged and delivered all such further acts, documents, and assurances as Tenant may request from time to time in order to effectuate, carry out and perform all of the terms, provisions and conditions of this Agreement and all transactions and permitted use contemplated by this Agreement.

[SIGNATURES APPEAR ON NEXT PAGE]

IN WITNESS WHEREOF, the parties have caused this Agreement to be effective as of the Effective Date.

"LANDLORD"

Perry Alexander and Freda Alexander,
husband and wife

By: *Perry Alexander*
Print Name: Perry Alexander
Date: 9-5-2019

By: *Freda Alexander*
Print Name: Freda Alexander
Date: 9-5-19



LANDLORD ACKNOWLEDGMENT

STATE OF Kentucky)
COUNTY OF Grayson) ss:

On the 5th day of September 2019, before me, personally appeared Perry Alexander, who acknowledged under oath, that he is the person named in the within instrument, and that he executed the same in his stated capacity as the voluntary act and deed of the Landlord for the purposes therein contained.

Paula Hoffman
Notary Public: 584674
My Commission Expires: 9-4-21

LANDLORD ACKNOWLEDGMENT

STATE OF Kentucky)
COUNTY OF Grayson) ss:

On the 5th day of September 2019, before me, personally appeared Freda Alexander, who acknowledged under oath, that he is the person named in the within instrument, and that he executed the same in his stated capacity as the voluntary act and deed of the Landlord for the purposes therein contained.

Paula Hoffman
Notary Public: 584674
My Commission Expires: 9-4-21



"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
Date: 2-17-2020

TENANT ACKNOWLEDGMENT

STATE OF KENTUCKY)
) ss:
COUNTY OF JEFFERSON)

On the 17th day of February, 2020, before me personally appeared Chris Tharp, and acknowledged under oath that he/she is the Area Manager – Network Engineering 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.



Kimberly Mackey
Notary Public: *Kimberly Mackey #619636*
My Commission Expires: *March 18, 2023*

EXHIBIT 1

DESCRIPTION OF PROPERTY AND PREMISES

Page 1 of 4

to the Land Lease Agreement dated February 17, 2020, by and between Perry Alexander and Freda Alexander, husband and wife, as Landlord, and New Cingular Wireless PCS, LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows: Deed Book 358, Page 469

PARCEL # 2: A certain tract or parcel of land lying and being near Meredith, Grayson County, Kentucky, bounded and described as follows, to-wit:

BEGINNING at a stone on a spur of the Highway leading from Highway No. 65 to Meredith at a corner of garden; thence north 32 poles to Lonnie White's; thence west with Lonnie White's line to an elm tree; thence north 13 west 12-1/4; thence north 76 west 54 poles to a chestnut; thence 66-4/5 to a garden fence; thence north 87 east 7 poles, south 4 west 6 poles to a road; thence with said road to the beginning, containing 33 acres, more or less.

EXCEPTION: THERE IS EXCEPTED from the foregoing that part of the above described property conveyed by Woodrow Alexander, et al, to Mid-Valley Pipeline Company by deed dated June 13, 1950 and recorded in Deed Book 43, page 520, that said conveyance being described as follows: (However, the following description is a part of the above described property and a part of other property then owned by Alexander:)

BEGINNING at the northwest corner of said tract; thence S 89° 31' W 359.49 feet to an iron pipe 1-1/2" in diameter, set in the line fence between Alexander and William Moore; thence S 0° 9' E 309.8 feet to an iron pipe 1-1/2" in diameter; thence N 89° 51' E 196.62 feet to an iron pipe 1-1/2" in diameter, set in line fence between Alexander and Kentucky State Route # 226 right of way; thence along said fence N 27° 35' E 350 feet to the point of beginning, containing 1.98 acres, more or less.

THERE IS FURTHER EXCEPTED that part conveyed to Joseph M. Alexander, et ux, by deed dated October 2, 1958, and recorded in Deed Book 56, page 208, and being described as follows:

BEGINNING at an iron pipe on the north right of way of Kentucky State Highway No. 65, said pipe being S 85° 00' W 1006.00 feet from the southwest corner of the four acre tract heretofore conveyed to Woodrow Alexander by deed dated December 7, 1944, and recorded in Deed Book 33, page 238, records of the Grayson County Clerk's office; thence with the north right of way of said highway S 85° 00' W 175.0 feet to an iron pipe; thence N 5° 00' W 125.0 feet to an iron pipe; thence N 85° 00' E 175.0 feet to an iron pipe; thence S 5° 00' E 125.0 feet, more or less, to the point of beginning, and containing 1/2 acre, more or less.

THERE IS FURTHER EXCEPTED that part conveyed to Glenn Pierce, et ux, by deed dated May 7, 1959, recorded in Deed Book 59, at page 22, and described as follows:

BEGINNING at the northwest corner of Joseph M. Alexander lot; thence S 88° 30' W for 175 feet to a hub; thence S 21° 00' W 130 feet to a hub on the right of way line of Highway No. 65; thence with this line, N 89° 30' E for 233 feet to the southwest corner of the J.M. Alexander lot; thence n 5° 00' W to the beginning and containing one-half (1/2) acre, more or less.

THERE IS FURTHER EXCEPTED that part conveyed to Joseph M. Alexander, et ux, by deed dated December 30, 1969, and recorded in Deed Book 104, page 342, and described as follows:

BEGINNING at an iron pipe in the north right of way line of Kentucky State

Highway, said pipe being S 85° 00' W for 921.0 feet from the southwest corner of the four acre tract heretofore conveyed to Woodrow Alexander by deed dated December 7, 1944, and recorded in Deed Book 33, page 238, records of the Grayson County Clerk's office; thence with the north right of way of said highway, S 85° 00' W for 260.0 feet to an iron rod; thence north 5° 00' W for 125.0 feet to a large fence post; thence with said fence 83° 00' E for 260 feet to an iron rod; thence S 5° 00' E for 110.0 feet to the point of beginning and containing 0.72 acre, more or less.

THERE IS FURTHER EXCEPTED that part conveyed to Glenn Pierce, et ux, by deed dated May 7, 1971, and recorded in Deed Book 111, page 487, and described as follows:

BEGINNING at a concrete marker on the north side of the Meredith Post Office road, a corner of Clarence Pierce's land; thence with said Pierce line N 5° E to a hub, the right of way of Kentucky State Highway 259, a distance of sixty-one and nine hundredths (61.09) feet; thence with said right of way S 56° 55' E to a spike in the edge of the Meredith Post Office road; thence being the right of way of said road, a distance of one hundred thirty-six and three tenths (136.3) feet; thence with said right of way to the beginning corner, S 86° 41' W, a distance of one hundred thirty and ninety five hundredths (130.95) feet, containing 0.09 acre, more or less.

THERE IS FURTHER EXCEPTED AND RESERVED to the parties of the first part, the following described property where the grantors received an undivided 1/2 interest from Ophelia White by deed dated August 18, 1941, and recorded in Deed Book 27, page 624, and an undivided 1/2 interest from Joseph M. Alexander, et ux, by deed dated October 10, 1979, and recorded in Deed Book 167, page 546, and described as follows:

BEGINNING at an iron pipe in the north right of way line of Kentucky State Highway; said stake being in the southeast corner of the Joe Alexander tract; thence north along a line along the said Joe Alexander tract, said line being 160 feet from the point of beginning to an iron stake; thence east a line parallel with the right of way of Kentucky State Highway for a distance of 210 feet to an iron stake; thence south a line parallel with the said Joe Alexander line to an iron stake in the north right of way of Kentucky State Highway; thence west along the meanders of Kentucky State Highway to the point of beginning.

THERE IS FURTHER EXCEPTED that land conveyed to James T. Gootee, Jr., unmarried, by Woodrow Alexander, et ux, by deed dated April 17, 1980, and recorded in Deed Book 175, page 167, and more particularly described as follows: (the following property is a part of the above described property and a part of other property then owned by Alexander:)

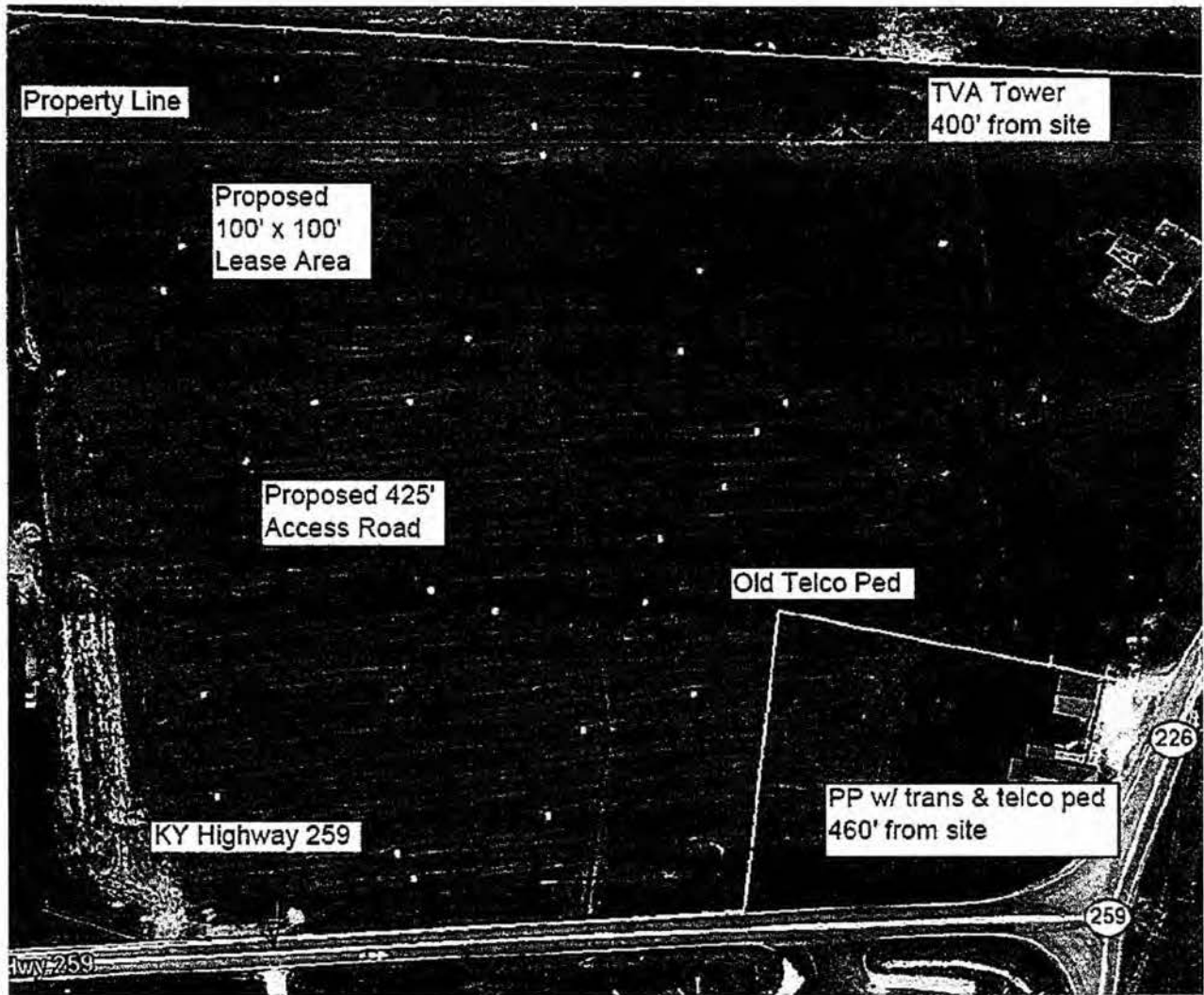
BEGINNING at a 1-1/2 inch iron pipe in the west right of way of Kentucky Highway 226, the southwest corner of a 1.984 acre tract owned by Mid-Valley Pipeline Co. (See Deed Book 43, page 520-521;) thence running with said highway 226, S 19-42 1/2 W 149.90 feet to a point; thence S 12-55 W 97.74 feet to a point 30 feet from the center of Highway 226 and 30 feet from the center of Kentucky Highway 259; thence running with said Highway 259, S 82-16 W 231.83 feet to a pipe in the north right of way of said Highway 259, a new corner to land retained by Woodrow Alexander; thence

leaving said Highway and severing property of said Alexander N 00-14 W 177.95 feet to a pipe in a fence line; thence N 50-01 1/2 E 138.71 feet to a pipe, the southwest corner of Mid-Valley Pipeline Co., tract; thence running with said tract N 89-51 E 196.62 feet to the point of beginning, containing 1.40 acres, more or less, with bearings referred to the line adjoining the Mid-Valley Pipeline Co., according to a survey by D.R. Clemons, Ky. Reg. LS # 1894 on April 8, 1980.

The herein conveyed property may not be sold, leased, mortgaged, pledged, or otherwise encumbered during the lifetime of Grantor (Woodrow Alexander and Rowena Alexander, without their expressed permission.

Being the same land conveyed by Rowena Alexander and Woodrow Alexander, wife and husband, to Joseph M. Alexander and Regina Alexander, husband and wife, or the survivor of them, by deed dated November 24, 1986, and recorded in the Grayson County Clerk's office in Deed Book 200, at page 668; the said Regina Alexander died on June 6, 2005, leaving grantor, Joseph M. Alexander, as her survivor.

The Premises are described and/or depicted as follows:



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.

**EXHIBIT J
NOTIFICATION LISTING**

Anneta Road – Notice List

ALEXANDER PERRY & FREIDA
6825 ANNETA RD
LEITCHFIELD, KY 42754

RIGGS JONATHAN A & CATHERINE J
915 GRINDSTONE RD
CLARKSON, KY 42726

MIDVALLEY PIPELINE CO
CLARKSON, KY 42726

MIDVALLEY PIPELINE CO
1958 PEONIA RD
CLARKSON, KY 42726

ALEXANDER JOSEPH & NATASHA & PERRY
6878 ANNETA RD
LEITCHFIELD, KY 42754

BROCK JESSICA
6822 ANNETA RD
LEITCHFIELD, KY 42754

DUVALL JOYCE
4974 ANNETA RD
LEITCHFIELD, KY 42754

STINSON MAXINE
6934 ANNETA RD
LEITCHFIELD, KY 42754

NEWTON TREVOR ONEIL
6963 ANNETA RD
LEITCHFIELD, KY 42754

SAPP ELSIE
6985 ANNETA RD
LEITCHFIELD, KY 42754

NU MANAGEMENT LLC
7103 ANNETA RD
LEITCHFIELD, KY 42754

WEST KAREN LEIGH PIERCE & GLENN R
15 LONG BRANCH RD
LEITCHFIELD, KY 42754

STEVENSON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754

LENICK TABITHA
37 ST ANTHONY CHURCH RD
CLARKSON, KY 42726

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: Anneta Road**

Dear Landowner:

New Cingular Wireless PCS, 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 7030 Anneta Road, Leitchfield, KY 42754 (37° 24' 17.81" North latitude, 86° 14' 17.13" West longitude). The proposed facility will include a 150-foot tall antenna tower, plus a 6-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 2020-00120 in any correspondence sent in connection with this matter.

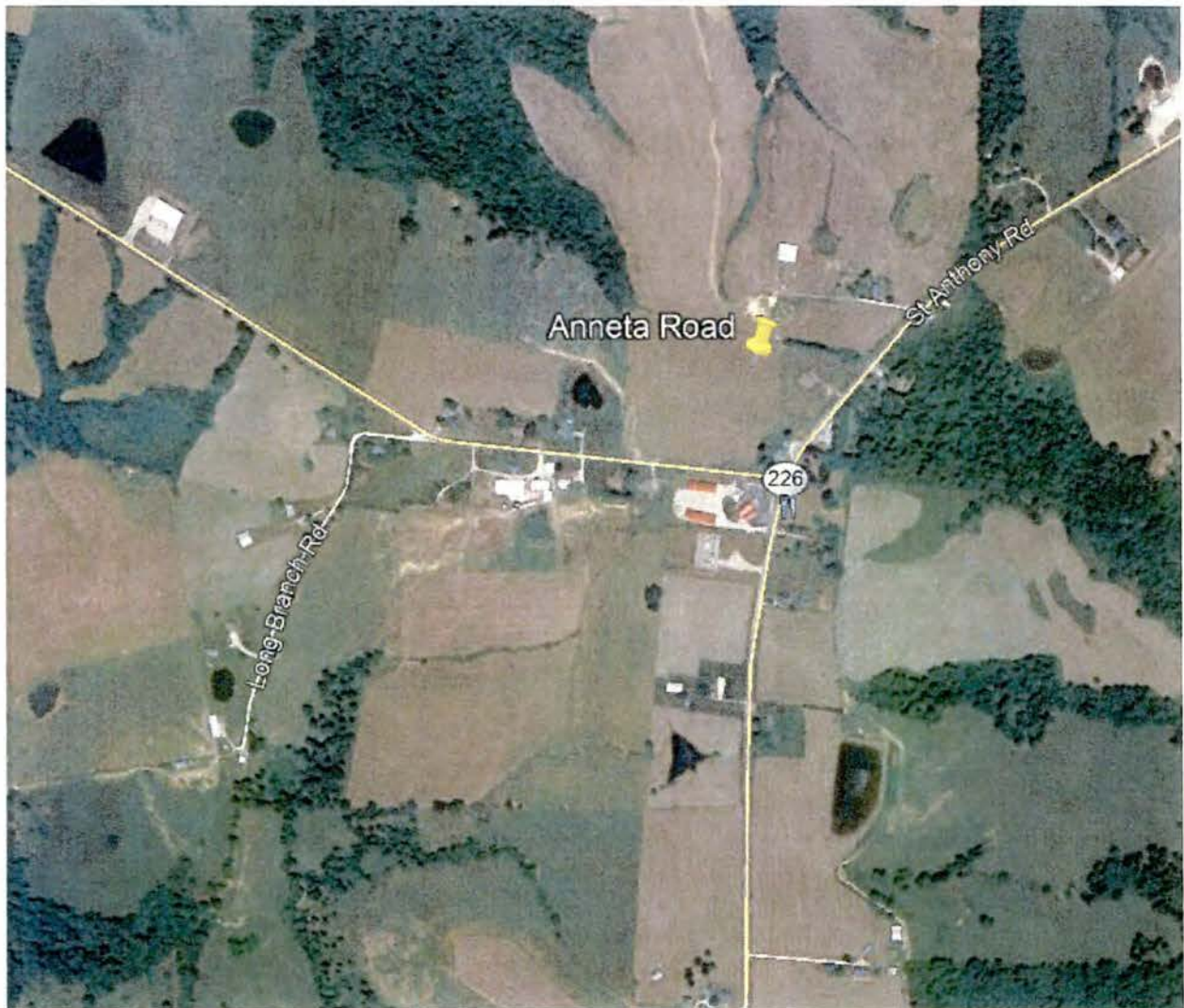
We have attached a map showing the site location for the proposed tower. Applicant's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. 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 10 Public Square, Leitchfield, KY 42754, head south on Public Square toward South Main Street and travel approximately 108 feet.
2. Follow Public Square as it turns slightly right and become South Main Street. Travel approximately 1 mile.
3. Continue onto KY-259 S / Anneta Road and travel approximately 6 miles.
4. The site is on the left at 7030 Anneta Road, Leitchfield, KY 42754.
5. The site coordinates are:
 - a. North 37 deg 24 min 17.81 sec
 - b. West 86° deg 14 min 17.13 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



SMW # 19-1552



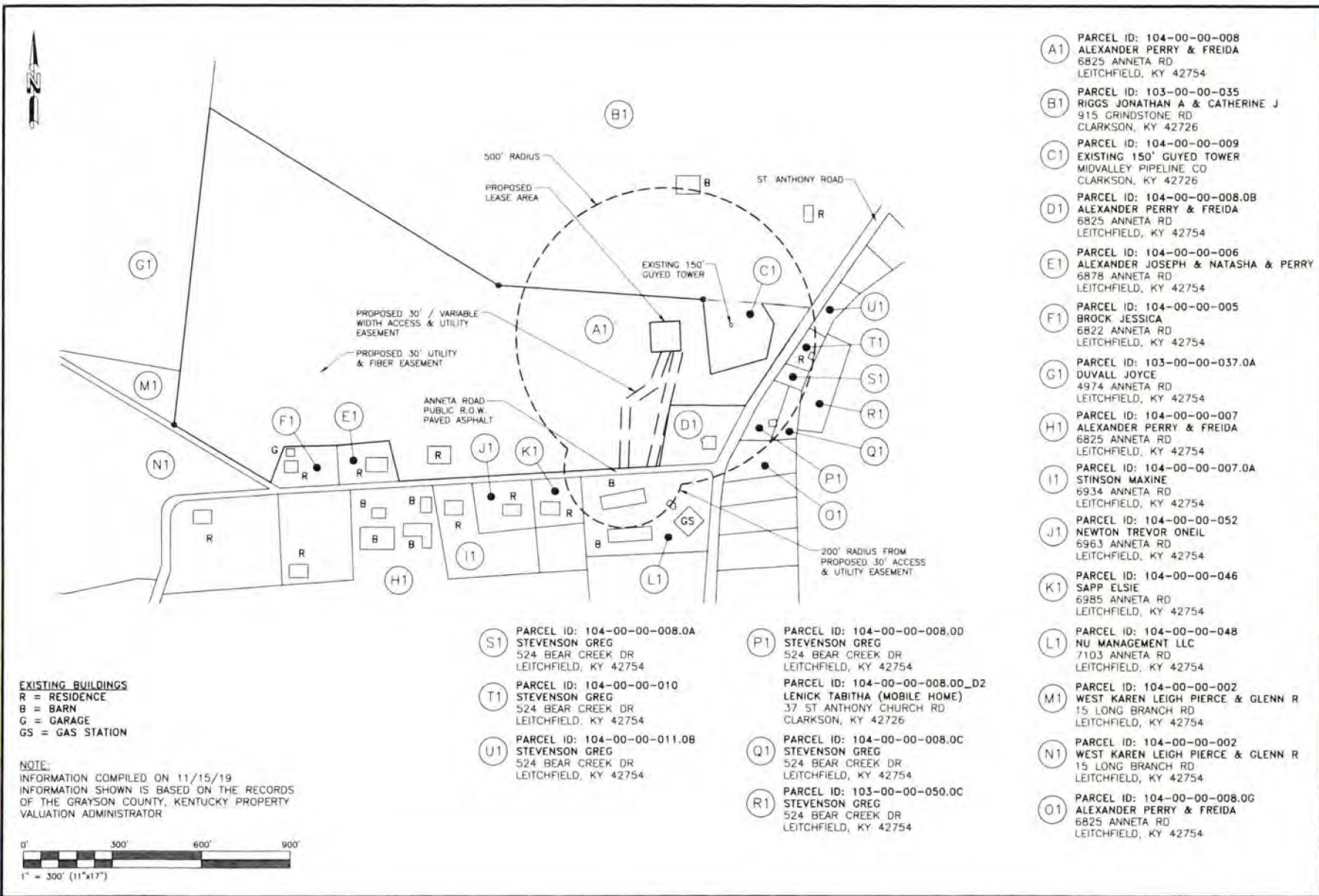
#	DATE	DESCRIPTION
0	11/15/19	ISSUED FOR CLIENT REV
1	12/16/19	ISSUED FOR CLIENT REV
2	02/14/20	ISSUED FOR CONSTRUCTION

ANNETA RD
500' RADIUS AND
ABUTTERS MAP

DESIGNED JOS
DRAWN BMD
CHECKED RTB

JOB # 14636401

B-1



EXISTING BUILDINGS
 R = RESIDENCE
 B = BARN
 G = GARAGE
 GS = GAS STATION

NOTE:
 INFORMATION COMPILED ON 11/15/19
 INFORMATION SHOWN IS BASED ON THE RECORDS
 OF THE GRAYSON COUNTY, KENTUCKY PROPERTY
 VALUATION ADMINISTRATOR



S1 PARCEL ID: 104-00-00-008.0A
 STEVENSON GREG
 524 BEAR CREEK DR
 LEITCHFIELD, KY 42754

T1 PARCEL ID: 104-00-00-010
 STEVENSON GREG
 524 BEAR CREEK DR
 LEITCHFIELD, KY 42754

U1 PARCEL ID: 104-00-00-011.0B
 STEVENSON GREG
 524 BEAR CREEK DR
 LEITCHFIELD, KY 42754

P1 PARCEL ID: 104-00-00-008.00
 STEVENSON GREG
 524 BEAR CREEK DR
 LEITCHFIELD, KY 42754

Q1 PARCEL ID: 104-00-00-008.00_D2
 LENICK TABITHA (MOBILE HOME)
 37 ST ANTHONY CHURCH RD
 CLARKSON, KY 42726

R1 PARCEL ID: 103-00-00-050.0C
 STEVENSON GREG
 524 BEAR CREEK DR
 LEITCHFIELD, KY 42754

A1 PARCEL ID: 104-00-00-008
 ALEXANDER PERRY & FREIDA
 6825 ANNETA RD
 LEITCHFIELD, KY 42754

B1 PARCEL ID: 103-00-00-035
 RIGGS JONATHAN A & CATHERINE J
 915 GRINDSTONE RD
 CLARKSON, KY 42726

C1 PARCEL ID: 104-00-00-009
 EXISTING 150' GUYED TOWER
 MIDVALLEY PIPELINE CO
 CLARKSON, KY 42726

D1 PARCEL ID: 104-00-00-008.0B
 ALEXANDER PERRY & FREIDA
 6825 ANNETA RD
 LEITCHFIELD, KY 42754

E1 PARCEL ID: 104-00-00-006
 ALEXANDER JOSEPH & NATASHA & PERRY
 6878 ANNETA RD
 LEITCHFIELD, KY 42754

F1 PARCEL ID: 104-00-00-005
 BROCK JESSICA
 6822 ANNETA RD
 LEITCHFIELD, KY 42754

G1 PARCEL ID: 103-00-00-037.0A
 DUVALL JOYCE
 4974 ANNETA RD
 LEITCHFIELD, KY 42754

H1 PARCEL ID: 104-00-00-007
 ALEXANDER PERRY & FREIDA
 6825 ANNETA RD
 LEITCHFIELD, KY 42754

I1 PARCEL ID: 104-00-00-007.0A
 STINSON MAXINE
 6934 ANNETA RD
 LEITCHFIELD, KY 42754

J1 PARCEL ID: 104-00-00-052
 NEWTON TREVOR ONEIL
 6963 ANNETA RD
 LEITCHFIELD, KY 42754

K1 PARCEL ID: 104-00-00-046
 SAPP ELSIE
 6985 ANNETA RD
 LEITCHFIELD, KY 42754

L1 PARCEL ID: 104-00-00-048
 NU MANAGEMENT LLC
 7103 ANNETA RD
 LEITCHFIELD, KY 42754

M1 PARCEL ID: 104-00-00-002
 WEST KAREN LEIGH PIERCE & GLENN R
 15 LONG BRANCH RD
 LEITCHFIELD, KY 42754

N1 PARCEL ID: 104-00-00-002
 WEST KAREN LEIGH PIERCE & GLENN R
 15 LONG BRANCH RD
 LEITCHFIELD, KY 42754

O1 PARCEL ID: 104-00-00-008.0G
 ALEXANDER PERRY & FREIDA
 6825 ANNETA RD
 LEITCHFIELD, KY 42754

EXHIBIT L
COPY OF COUNTY JUDGE/EXECUTIVE NOTICE



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

VIA CERTIFIED MAIL

Kevin Henderson
County Judge Executive
10 Public Square
Leitchfield, KY 42754

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2020-00120
Site Name: Anneta Road

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 7030 Anneta Road, Leitchfield, KY 42754 (37° 24' 17.81" North latitude, 86° 14' 17.13" West longitude). The proposed facility will include a 150-foot tall antenna tower, plus a 6-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 2020-00120 in any correspondence sent in connection with this matter.

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.

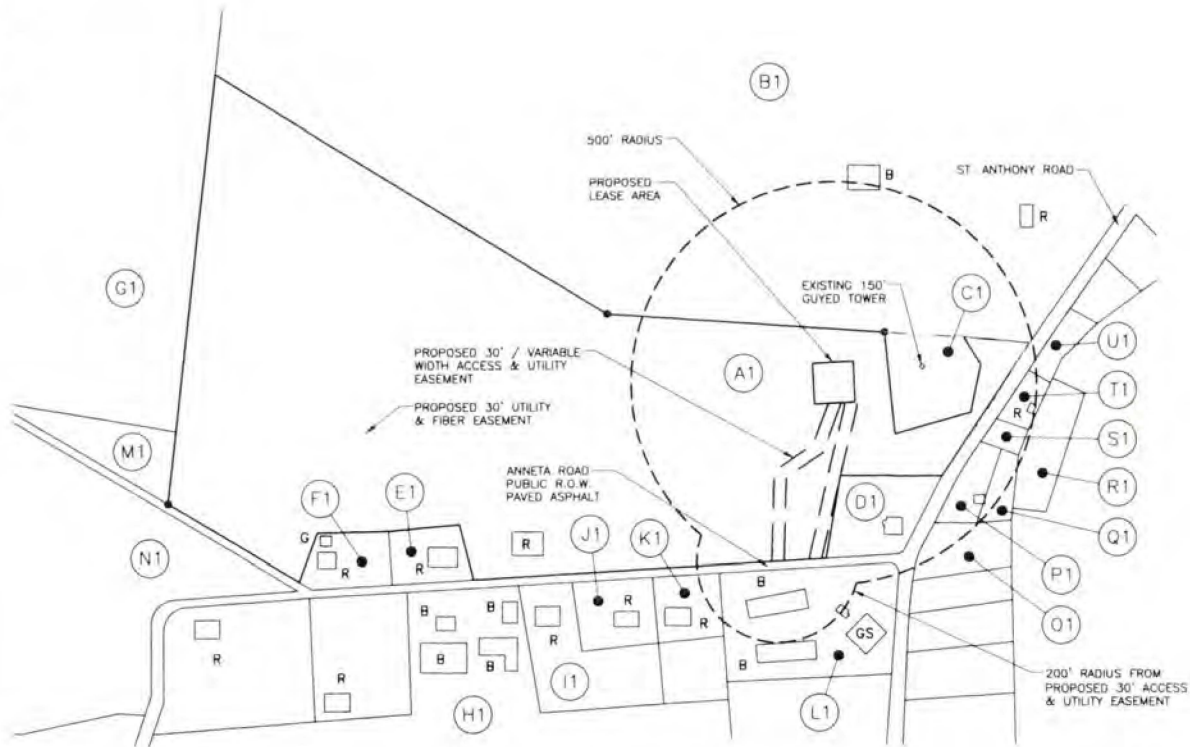
Sincerely,
David A. Pike
Attorney for Applicant
enclosures

Driving Directions to Proposed Tower Site

1. Beginning at 10 Public Square, Leitchfield, KY 42754, head south on Public Square toward South Main Street and travel approximately 108 feet.
2. Follow Public Square as it turns slightly right and become South Main Street. Travel approximately 1 mile.
3. Continue onto KY-259 S / Anneta Road and travel approximately 6 miles.
4. The site is on the left at 7030 Anneta Road, Leitchfield, KY 42754.
5. The site coordinates are:
 - a. North 37 deg 24 min 17.81 sec
 - b. West 86° deg 14 min 17.13 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



EXISTING BUILDINGS
 R = RESIDENCE
 B = BARN
 G = GARAGE
 GS = GAS STATION

NOTE:
 INFORMATION COMPILED ON 11/15/19
 INFORMATION SHOWN IS BASED ON THE RECORDS
 OF THE GRAYSON COUNTY, KENTUCKY PROPERTY
 VALUATION ADMINISTRATOR



- (S1) PARCEL ID: 104-00-00-008.0A
STEVENS ON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754
- (T1) PARCEL ID: 104-00-00-010
STEVENS ON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754
- (U1) PARCEL ID: 104-00-00-011.0B
STEVENS ON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754

- (P1) PARCEL ID: 104-00-00-008.00
STEVENS ON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754
- PARCEL ID: 104-00-00-008.00_D2
LENICK TABITHA (MOBILE HOME)
37 ST ANTHONY CHURCH RD
CLARKSON, KY 42726
- (Q1) PARCEL ID: 104-00-00-008.0C
STEVENS ON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754
- (R1) PARCEL ID: 103-00-00-050.0C
STEVENS ON GREG
524 BEAR CREEK DR
LEITCHFIELD, KY 42754

- (A1) PARCEL ID: 104-00-00-008
ALEXANDER PERRY & FREIDA
6825 ANNETA RD
LEITCHFIELD, KY 42754
- (B1) PARCEL ID: 103-00-00-035
RIGGS JONATHAN A & CATHERINE J
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EXISTING 150' GUYED TOWER
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LEITCHFIELD, KY 42754
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ALEXANDER JOSEPH & NATASHA & PERRY
6878 ANNETA RD
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LEITCHFIELD, KY 42754
- (J1) PARCEL ID: 104-00-00-052
NEWTON TREVOR ONEIL
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LEITCHFIELD, KY 42754
- (K1) PARCEL ID: 104-00-00-046
SAPP ELSIE
6985 ANNETA RD
LEITCHFIELD, KY 42754
- (L1) PARCEL ID: 104-00-00-048
NU MANAGEMENT LLC
7103 ANNETA RD
LEITCHFIELD, KY 42754
- (M1) PARCEL ID: 104-00-00-002
WEST KAREN LEIGH PIERCE & GLENN R
15 LONG BRANCH RD
LEITCHFIELD, KY 42754
- (N1) PARCEL ID: 104-00-00-002
WEST KAREN LEIGH PIERCE & GLENN R
15 LONG BRANCH RD
LEITCHFIELD, KY 42754
- (O1) PARCEL ID: 104-00-00-008.0G
ALEXANDER PERRY & FREIDA
6825 ANNETA RD
LEITCHFIELD, KY 42754



SMV # 19-1552



#	DATE	DESCRIPTION
0	11/15/19	ISSUED FOR CLIENT REV.
1	12/16/19	ISSUED FOR CLIENT REV.
2	02/14/20	ISSUED FOR CONSTRUCTION

ANNETA RD

500' RADIUS AND
 ABUTTERS MAP

DESIGNED JDS
 DRAWN BMD
 CHECKED RTB
 JOB # 14636401

B-1

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

SITE NAME: ANNETA ROAD
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 2020-00120 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 2020-00120 in your correspondence.



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

VIA TELEPHONE: (270) 259-9622

The Grayson County News-Gazette
Attn: Public Notice Ad Placement
52 Public Square
Leitchfield, KY 42754

RE: Legal Notice Advertisement
Site Name: Anneta Road

Dear Adair Progress:

Please publish the following legal notice advertisement in the next edition of *The Grayson County News-Gazette*:

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 7030 Anneta Road, Leitchfield, KY 42754 (37° 24' 17.81" North latitude, 86° 14' 17.13" 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 2020-00120 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,
Chris Shouse
Pike Legal Group, PLLC

EXHIBIT N
COPY OF RADIO FREQUENCY DESIGN SEARCH AREA



Lat: 37.399594
Lon: -86.236738
Radius: .4 miles

Anneta Rd Search Area