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	)	
AND UNITI TOWERS LLC, A DELAWARE	)	
LIMITED LIABILITY COMPANY	)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC	)	CASE NO.: 2021-00092
CONVENIENCE AND NECESSITY TO CONSTRUCT	)	
A WIRELESS COMMUNICATIONS FACILITY	)	
IN THE COMMONWEALTH OF KENTUCKY	)	
IN THE COUNTY OF BATH	)	

SITE NAME: SHARPSBURG

* * * * * * * *

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 and Uniti Towers LLC, a Delaware limited liability company ("Applicants"), 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 submit 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 Applicants with wireless communications services.

In support of this Application, Applicants respectfully provide and state the following

information:

1. The complete names and addresses of the Applicants are: New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility, having an address of Meidinger Tower, 462 S. 4th Street, Suite 2400, Louisville, Kentucky 40202 and Uniti Towers LLC, a Delaware limited liability company having an address of 10802 Executive Center Drive, Benton Building, Suite 300, Little Rock, Arkansas 72211.

2. Applicants propose construction of an antenna tower for communications services, which is to be located in an area outside the jurisdiction of a planning commission, and Applicants submit 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. AT&T Mobility is a limited liability company organized in the State of Delaware on October 20, 1994. Uniti Towers is a limited liability company organized in the State of Delaware on December 2, 2015.

4. Applicants attest that they are in good standing in the state in which they are organized and further state that they are authorized to transact business in Kentucky.

5. The Certificates of Authority filed with the Kentucky Secretary of State for both Applicants are attached as part of **Exhibit A** pursuant to 807 KAR 5:001: Section 14(3).

6. AT&T Mobility operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. Copies of AT&T Mobility'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 AT&T Mobility's services to an area currently not served or not adequately served by AT&T Mobility 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 AT&T Mobility'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 AT&T Mobility's network design that must be in place to provide adequate coverage to the service area.

8. To address the above-described service needs, Applicants propose to construct a WCF at 635 Ramey Road, Sharpsburg, KY 40374 (E-911) / 695 Ramey Road, Sharpsburg, KY 40374 (PARCEL) (38° 12' 39.34" North latitude, 83° 56' 02.64" West longitude), on a parcel of land located entirely within the county referenced in the caption of this application. The property on which the WCF will be located is owned by Danny and Vonda Harmon pursuant to a deed recorded at Deed Book 212, Page 526 in the office of the County Clerk. The proposed WCF will consist of a 255-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 267-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of AT&T Mobility's radio electronics equipment and appurtenant equipment. The Applicants' 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 AT&T Mobility's antennas 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. Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and have concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate AT&T Mobility's antennas on an existing structure. When suitable towers or structures exist, AT&T Mobility attempts to co-locate on existing structures such as communications towers or other structures capable of supporting AT&T Mobility'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 approval issued by the Kentucky Airport Zoning Commission ("KAZC") 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. Uniti Towers LLC, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreements or abbreviated agreements recorded with the County Clerk are 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 Jeremy Culpepper 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. Applicants have 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. Applicants have 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.

26. The process that was used by AT&T Mobility'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. AT&T Mobility'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 Applicants when searching for sites for its antennas that would provide the coverage deemed necessary by AT&T Mobility. 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, Applicants 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 Applicants

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
Secretary of State
Commonwealth of Kentucky
216299/0481848

0972004.06 mstratton ADD

Alison Lundergan Grimes
Kentucky Secretary of State
Received and Filed:
1/3/2017 3:10 PM
Fee Receipt: $90.00

COMMONWEALTH OF KENTUCKY
ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

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

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

1. The entity is a : ☐ profit corporation (KRS 271B). ☐ nonprofit corporation (KRS 273). ☐ professional service corporation (KRS 274). ☐ business trust (KRS 386). ☑ limited liability company (KRS 275). ☐ professional limited liability company (KRS 275). ☐ limited partnership (KRS 362).

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

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

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

5. The date of organization is 12/2/2015 and the period of duration is _____
(If left blank, the period of duration is considered perpetual.)

6. The mailing address of the entity's principal office is

10802 Executive Center Drive, Benton Building, Suite 300	Little Rock	AR	72211
Street Address	City	State	Zip Code

7. The street address of the entity's registered office in Kentucky is

306 West Main Street - Suite 512	Frankfort	KY	40601
Street Address (No P.O. Box Numbers)	City	State	Zip Code

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

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

Name	Street or P.O. Box	City	State	Zip Code
Daniel L. Heard	10802 Executive Center Drive, Benton Building, Suite 300	Little Rock	AR	72211
Kenneth Gunderman	10802 Executive Center Drive, Benton Building, Suite 300	Little Rock	AR	72211
Mark A. Wallace	10802 Executive Center Drive, Benton Building, Suite 300	Little Rock	AR	72211

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

10. I certify that, as of the date of filing this application, the above-named entity validly exists under the laws of the jurisdiction of its formation.

11. If a limited partnership, it elects to be a limited liability limited partnership. Check the box if applicable: ☐

12. If a limited liability company, check box if manager-managed: ■

13. This application will be effective upon filing, unless a delayed effective date and/or time is provided.
The effective date or the delayed effective date cannot be prior to the date the application is filed. The date and/or time is _____
(Delayed effective date and/or time)

Signature of Authorized Representative	Keith Harvey, VP - Deputy General Counsel Printed Name & Title	12/30/2016 Date

I, C T Corporation System, consent to serve as the registered agent on behalf of the business entity.
Type/Print Name of Registered Agent

Signature of Registered Agent	Tristan Emrich Printed Name	Assistant Secretary Title	12/30/2016 Date

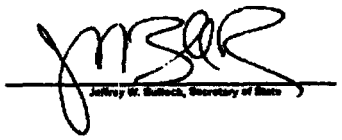
(09/15)

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "UNITI TOWERS LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE THIRTIETH DAY OF DECEMBER, A.D. 2016.

AND I DO HEREBY FURTHER CERTIFY THAT THE ANNUAL TAXES HAVE BEEN PAID TO DATE.



5896640 8300

SR# 20167345793

You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 203613650

Date: 12-30-16

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	File Number
KNKN956	
Radio Service CL - Cellular	
Market Numer CMA450	**Channel Block** B
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003291192

Market Name
Kentucky 8 - Mason

Grant Date	Effective Date	Expiration Date	Five Yr Build-Out Date	Print Date
08-30-2011	08-31-2018	10-01-2021		

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	38-06-01.6 N	083-56-44.2 W	307.8	126.5	1059771

Address: 3003 Maysville Road (76290)
City: MT. STERLING **County:** MONTGOMERY **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)	135.500	127.300	143.700	142.100	122.700	113.300	130.600	136.100
Transmitting ERP (watts)	154.900	65.100	5.300	0.700	0.309	0.400	10.100	78.000

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	**0**	**45**	**90**	**135**	**180**	**225**	**270**	**315**
Antenna Height AAT (meters)	135.500	127.300	143.700	142.100	122.700	113.300	130.600	136.100
Transmitting ERP (watts)	0.500	7.000	36.900	44.000	12.100	0.900	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)	135.500	127.300	143.700	142.100	122.700	113.300	130.600	136.100
Transmitting ERP (watts)	24.700	18.300	22.700	33.500	103.700	99.000	126.600	69.600

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

FCC 601-C
March 2018

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN956 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	38-11-09.0 N	083-25-12.0 W	377.0	57.9	

Address: 1470 SOUTH TOLLIVER ROAD (76292)
City: MOREHEAD **County:** ROWAN **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)	116.000	104.400	127.300	125.300	124.700	174.000	174.600	156.000
Transmitting ERP (watts)	225.400	94.700	7.700	1.000	0.500	0.500	14.700	113.600

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	116.000	104.400	127.300	125.300	124.700	174.000	174.600	156.000
Transmitting ERP (watts)	2.500	46.700	306.900	397.600	115.300	6.500	0.800	0.900

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	116.000	104.400	127.300	125.300	124.700	174.000	174.600	156.000
Transmitting ERP (watts)	2.100	0.421	0.421	7.600	62.700	210.700	160.100	17.300

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	38-19-06.7 N	084-07-20.5 W	271.3	126.2	1043355

Address: 1062 MAYSVILLE ROAD (76289)
City: MILLERSBURG **County:** NICHOLAS **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)	135.000	140.400	124.300	128.600	122.500	127.600	146.600	134.900
Transmitting ERP (watts)	158.500	176.800	51.900	29.000	0.400	10.800	59.600	176.800

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)	135.000	140.400	124.300	128.600	122.500	127.600	146.600	134.900
Transmitting ERP (watts)	2.000	20.200	108.000	135.400	28.500	2.600	0.400	0.500

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)	135.000	140.400	124.300	128.600	122.500	127.600	146.600	134.900
Transmitting ERP (watts)	27.500	10.700	14.300	31.400	141.300	187.300	211.300	81.800

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN956 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	38-41-03.8 N	084-03-26.6 W	281.0	127.1	1043359

Address: 275 SOUTH BLUE GRASS ROAD (76297)
City: Brooksville **County:** BRACKEN **State:** KY **Construction Deadline:** 12-30-2014

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)	169.000	167.500	126.700	147.100	165.400	152.500	139.700	174.500
Transmitting ERP (watts)	133.400	148.800	43.700	24.400	0.300	9.100	50.100	148.800

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)	169.000	167.500	126.700	147.100	165.400	152.500	139.700	174.500
Transmitting ERP (watts)	12.200	80.800	162.200	168.800	105.900	30.400	22.400	8.400

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)	169.000	167.500	126.700	147.100	165.400	152.500	139.700	174.500
Transmitting ERP (watts)	23.200	9.000	12.000	26.500	118.900	157.600	177.800	68.800

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	38-35-58.3 N	083-10-00.7 W	319.7	61.0	

Address: 803 HIGHWAY 546 STATE ROUTE 10 (76299)
City: GARRISON **County:** LEWIS **State:** KY **Construction Deadline:** 12-30-2014

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)	94.800	131.000	101.600	71.200	75.500	126.000	153.200	87.400
Transmitting ERP (watts)	129.000	114.600	117.300	36.300	42.600	15.500	17.400	87.200

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	94.800	131.000	101.600	71.200	75.500	126.000	153.200	87.400
Transmitting ERP (watts)	73.300	21.400	29.200	144.400	211.200	182.100	175.900	67.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	38-01-26.0 N	083-57-08.0 W	317.9	68.6	1042213

Address: 2122 Levee Road (76302)
City: MT. STERLING **County:** MONTGOMERY **State:** KY **Construction Deadline:** 12-30-2014

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)	92.500	100.200	119.400	105.700	123.200	97.900	77.600	85.000
Transmitting ERP (watts)	8.100	22.900	20.100	3.800	0.300	0.100	0.100	0.800

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN956 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	38-01-26.0 N	083-57-08.0 W	317.9	68.6	1042213

Address: 2122 Levee Road (76302)
City: MT. STERLING **County:** MONTGOMERY **State:** KY **Construction Deadline:** 12-30-2014

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)	92.500	100.200	119.400	105.700	123.200	97.900	77.600	85.000
Transmitting ERP (watts)	0.100	0.200	1.800	14.400	23.200	14.400	1.500	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)	92.500	100.200	119.400	105.700	123.200	97.900	77.600	85.000
Transmitting ERP (watts)	175.400	50.300	37.100	13.900	20.100	133.800	268.500	279.600

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	38-14-43.5 N	083-25-18.5 W	405.1	113.1	1042211

Address: 4950 HIGHWAY 799 (76304)
City: MOREHEAD **County:** ROWAN **State:** KY **Construction Deadline:** 12-30-2014

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)	178.500	177.300	197.500	172.200	197.100	268.500	231.500	202.400
Transmitting ERP (watts)	240.300	293.300	153.900	30.000	15.800	3.100	6.500	74.200

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	178.500	177.300	197.500	172.200	197.100	268.500	231.500	202.400
Transmitting ERP (watts)	0.200	1.100	2.600	2.200	1.700	0.300	0.100	0.200

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)	178.500	177.300	197.500	172.200	197.100	268.500	231.500	202.400
Transmitting ERP (watts)	0.400	0.104	0.104	1.600	16.500	52.300	41.900	6.500

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	38-32-02.2 N	084-01-42.7 W	287.7	93.0	1248707

Address: ROUTE 2 BOX 357A (76309)
City: MT. OLIVET **County:** ROBERTSON **State:** KY **Construction Deadline:** 12-30-2014

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)	133.400	137.900	100.500	124.900	146.500	140.100	149.500	140.700
Transmitting ERP (watts)	243.800	92.200	9.400	2.400	0.500	0.700	12.900	103.400

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN956 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	38-32-02.2 N	084-01-42.7 W	287.7	93.0	1248707

Address: ROUTE 2 BOX 357A (76309)
City: MT. OLIVET **County:** ROBERTSON **State:** KY **Construction Deadline:** 12-30-2014

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)	133.400	137.900	100.500	124.900	146.500	140.100	149.500	140.700
Transmitting ERP (watts)	1.400	30.900	155.600	213.600	45.400	4.800	1.700	0.600

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	133.400	137.900	100.500	124.900	146.500	140.100	149.500	140.700
Transmitting ERP (watts)	2.700	0.427	1.000	4.500	61.200	213.600	155.600	21.400

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	38-41-05.5 N	083-50-24.3 W	281.3	142.0	1234091

Address: 3530 TUCKAHOE ROAD (76310)
City: Maysville **County:** MASON **State:** KY **Construction Deadline:** 12-30-2014

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)	176.600	204.400	178.600	144.800	138.700	142.800	135.200	167.500
Transmitting ERP (watts)	178.600	199.300	58.500	32.700	0.400	12.100	67.100	199.300

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	176.600	204.400	178.600	144.800	138.700	142.800	135.200	167.500
Transmitting ERP (watts)	1.600	35.900	180.700	248.000	52.700	5.600	2.000	0.700

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	176.600	204.400	178.600	144.800	138.700	142.800	135.200	167.500
Transmitting ERP (watts)	1.500	0.305	0.305	5.500	45.400	152.700	116.000	12.500

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-56-51.0 N	083-36-24.0 W	391.7	86.6	1042227

Address: 1158 COUNTY PARK ROAD (84346)
City: FRENCHBURG **County:** MENIFEE **State:** KY **Construction Deadline:** 12-30-2014

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)	174.000	196.600	135.600	116.700	129.500	143.100	146.500	161.000
Transmitting ERP (watts)	205.100	86.100	7.000	0.900	0.410	0.500	13.400	103.300

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN956 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	37-56-51.0 N	083-36-24.0 W	391.7	86.6	1042227

Address: 1158 COUNTY PARK ROAD (84346)
City: FRENCHBURG **County:** MENIFEE **State:** KY **Construction Deadline:** 12-30-2014

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)	174.000	196.600	135.600	116.700	129.500	143.100	146.500	161.000
Transmitting ERP (watts)	20.500	136.000	272.900	284.100	178.200	51.100	37.700	14.100

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)	174.000	196.600	135.600	116.700	129.500	143.100	146.500	161.000
Transmitting ERP (watts)	39.000	15.100	20.200	44.500	200.000	265.200	299.200	115.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	38-43-27.3 N	083-59-05.2 W	284.7	60.7	

Address: 1910 Dutch Road Ridge (101049)
City: Augusta **County:** BRACKEN **State:** KY **Construction Deadline:** 12-30-2014

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)	96.600	122.500	103.100	51.900	67.800	65.600	79.900	97.600
Transmitting ERP (watts)	178.200	74.900	6.100	0.800	0.400	0.400	11.700	89.800

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)	96.600	122.500	103.100	51.900	67.800	65.600	79.900	97.600
Transmitting ERP (watts)	2.400	24.800	132.900	166.600	35.100	3.200	0.400	0.600

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	96.600	122.500	103.100	51.900	67.800	65.600	79.900	97.600
Transmitting ERP (watts)	1.700	0.333	0.333	6.000	49.500	166.600	126.600	13.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	38-34-35.7 N	083-26-23.4 W	321.0	119.5	1206373

Address: Off of SR # 10 (76295)
City: Charters **County:** LEWIS **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)	209.500	182.600	156.500	135.100	112.200	142.700	191.300	173.300
Transmitting ERP (watts)	152.800	137.700	121.300	47.800	53.000	18.200	23.100	109.400

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN956 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	38-34-35.7 N	083-26-23.4 W	321.0	119.5	1206373

Address: Off of SR # 10 (76295)
City: Charters **County:** LEWIS **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)	209.500	182.600	156.500	135.100	112.200	142.700	191.300	173.300
Transmitting ERP (watts)	0.800	2.700	44.500	178.100	160.300	24.700	2.800	0.700

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	209.500	182.600	156.500	135.100	112.200	142.700	191.300	173.300
Transmitting ERP (watts)	8.500	2.200	0.441	0.700	11.700	93.600	220.800	83.500

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	38-03-34.6 N	083-30-18.6 W	367.9	59.1	

Address: 148 Dogwood Lane (76303)
City: Salt Lick **County:** BATH **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)	164.600	119.200	127.400	129.100	131.900	91.500	141.700	180.300
Transmitting ERP (watts)	86.100	142.900	53.100	37.600	0.300	18.800	66.800	133.400

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	164.600	119.200	127.400	129.100	131.900	91.500	141.700	180.300
Transmitting ERP (watts)	18.000	119.500	239.900	249.700	156.700	44.900	33.100	12.400

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)	164.600	119.200	127.400	129.100	131.900	91.500	141.700	180.300
Transmitting ERP (watts)	34.300	13.300	17.800	39.100	175.800	233.100	263.000	101.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	37-57-38.2 N	083-46-12.6 W	382.2	77.1	1252133

Address: 377 WHISPERING PINE (85240)
City: MEANS **County:** MENIFEE **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)	193.100	167.300	141.100	121.100	166.700	178.600	195.900	185.900
Transmitting ERP (watts)	205.100	86.100	7.000	0.900	0.410	0.500	13.400	103.300

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN956 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	37-57-38.2 N	083-46-12.6 W	382.2	77.1	1252133

Address: 377 WHISPERING PINE (85240)
City: MEANS **County:** MENIFEE **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)	193.100	167.300	141.100	121.100	166.700	178.600	195.900	185.900
Transmitting ERP (watts)	4.000	55.200	276.600	325.000	69.600	3.000	0.700	0.700

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	193.100	167.300	141.100	121.100	166.700	178.600	195.900	185.900
Transmitting ERP (watts)	1.900	0.400	0.400	6.900	57.000	191.800	145.700	15.700

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
25	37-55-42.0 N	083-32-46.4 W	394.7	105.2	1252134

Address: MORT BOTTS ROAD (85243)
City: DENNISON **County:** MENIFEE **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)	189.900	177.500	189.000	179.800	166.900	162.500	146.700	200.500
Transmitting ERP (watts)	310.500	126.400	6.600	1.300	0.621	1.100	20.100	166.600

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	189.900	177.500	189.000	179.800	166.900	162.500	146.700	200.500
Transmitting ERP (watts)	0.600	8.100	42.500	50.700	14.000	1.100	0.200	0.101

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)	189.900	177.500	189.000	179.800	166.900	162.500	146.700	200.500
Transmitting ERP (watts)	1.700	0.334	0.334	6.000	49.700	167.000	126.900	13.700

Control Points:

Control Pt. No. 1

Address: 2601 Palumbo Drive
City: Lexington **County:** **State:** KY **Telephone Number:** (606)269-1050

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN956 **File Number:** **Print Date:**

Waivers/Conditions:

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).

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 1016
DALLAS, TX 75202

Call Sign	File Number
KNLF251	
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date	Effective Date	Expiration Date	Print Date
06-02-2015	12-07-2020	06-23-2025	

Market Number	Channel Block	Sub-Market Designator
MTA026	A	15

Market Name
Louisville-Lexington-Evansvill

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-23-2000	06-23-2005		

Waivers/Conditions:

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

This authorization is 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.

Conditions:

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLF251 **File Number:** **Print Date:**

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

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLF251 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

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	File Number
WPOI255	
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date	Effective Date	Expiration Date	Print Date
05-27-2015	03-12-2020	06-23-2025	

Market Number	Channel Block	Sub-Market Designator
MTA026	A	19

Market Name
Louisville-Lexington-Evansvill

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-23-2000	06-23-2005		

Waivers/Conditions:

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

This authorization is 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.

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 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

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	File Number
WQGD755	
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date	Effective Date	Expiration Date	Print Date
12-18-2006	08-31-2018	12-18-2021	

Market Number	Channel Block	Sub-Market Designator
BEA047	C	9

Market Name
Lexington, KY-TN-VA-WV

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGD755 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

EXHIBIT B

SITE DEVELOPMENT PLAN:

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

FA NUMBER: 15147587 / SITE ID: KYLEX2050
PACE #: MRTNK047531
PROJECT TRACKING #: 10153676
SITE NAME: SHARPSBURG KY

PROPERTY ADDRESS:
695 RAMEY ROAD
SHARPSBURG, KY 40374
BATH COUNTY

911 ADDRESS:
635 RAMEY ROAD
SHARPSBURG, KY 40374
BATH COUNTY

PROPOSED 255' SELF-SUPPORT TOWER

ZONING DRAWINGS

A/E DOCUMENT REVIEW STATUS

TITLE	SIGNATURE	DATE
HARMONI TOWERS PROP:		
HARMONI TOWERS CONST. MGR.:		
INTERCONNECT:		
HARMONI TOWERS SITE DEV. MGR.:		
PROPERTY OWNER:		

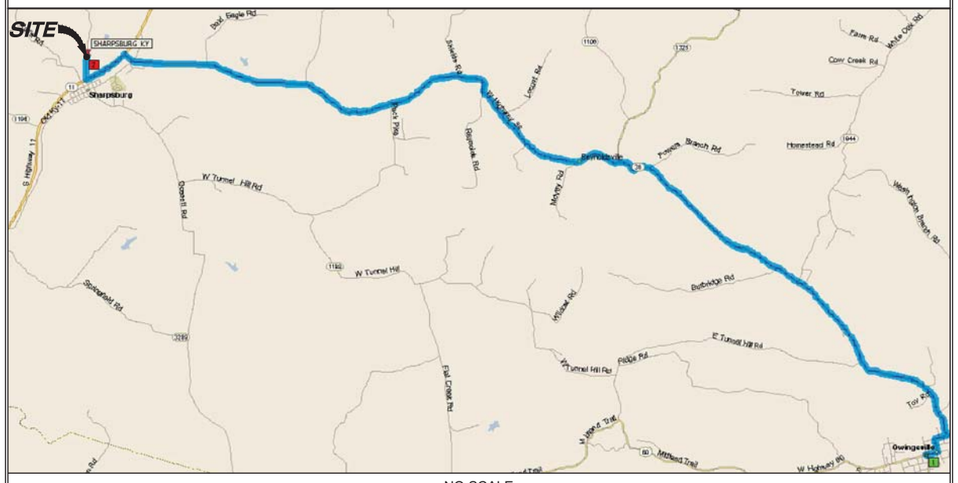
STATUS CODE:		
1		ACCEPTED: WITH OR NO COMMENTS, CONSTRUCTION MAY PROCEED
2		NOT ACCEPTED: RESOLVE COMMENTS AND RESUBMIT

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

PROJECT SUMMARY

SITE NAME:	SHARPSBURG KY
SITE NUMBER:	FA 15147587
TAX MAP PROPERTY ID:	004-00-00-006.00
SITE ADDRESS:	695 RAMEY ROAD SHARPSBURG, KY 40374
911 ADDRESS:	635 RAMEY ROAD SHARPSBURG, KY 40374
JURISDICTION:	BATH COUNTY
TOWER OWNER:	HARMONI TOWERS 10802 EXECUTIVE CENTER DRIVE LITTLE ROCK, AR 72211
NAD83	
LATITUDE:	38.210928° N
LONGITUDE:	-83.934067° W
APPLICANT:	NEW CINGULAR WIRELESS, PCS, LLC, A DELAWARE LIMITED LIABILITY COMPANY d/b/a AT&T MOBILITY MEIDINGER TOWER 462 S/ 4th STREET, SUITE 2400 LOUISVILLE, KY 40202
CO-APPLICANT:	N/A
OCCUPANCY TYPE:	UNMANNED
A.D.A. COMPLIANCE:	FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION

LOCATION MAP



NO SCALE

DRAWING INDEX

SHEET #	SHEET DESCRIPTION
T-1	TITLE SHEET
1-3	SURVEY
C-1.0	500' RADIUS & ADJOINER'S DRAWING
C-1.1	OVERALL ADJOINER'S DRAWING
C-2	OVERALL SITE LAYOUT
C-3	ENLARGED COMPOUND LAYOUT
C-4	TOWER ELEVATION

DESIGN INFORMATION

A&E FIRM: B+T GROUP
1717 S. BOULDER,
SUITE 300
TULSA, OK 74119
MIKE A. SPEEDIE, PE
(918) 587-4630

ELECTRIC PROVIDER: KENTUCKY UTILITIES
800-981-0600

SURVEYOR: POINT TO POINT
100 GOVERNORS TRACE, STE #103
PEACHTREE CITY, GA 30269
PH. (678) 565-4440

TELCO PROVIDER: WINDSTREAM
XXX-XXX-XXXX

DRIVING DIRECTIONS

1) Depart 19 E. Main Street / Hwy 60, Owingsville, KY 40360 travelling east for approximately 0.1 miles.
2) Turn left to remain on Hwy 60 and travel approximately 0.2 miles.
3) Turn right to remain on Hwy 60 (High Street) and travel approximately 0.1 miles.
4) Turn left onto KY-36 W and travel approximately 10.9 miles.
5) Turn left onto KY-11 and travel approximately 0.5 miles.
6) Turn right onto Ramey Road and travel approximately 0.5 miles.
7) The site is on the left off of Ramey Road.

CODE COMPLIANCE

ALL WORK SHALL BE PERFORMED AND MATERIALS INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CODE TYPE	CODE
BUILDING/DWELLING	IBC 2015
STRUCTURAL	IBC 2015
MECHANICAL	IMC 2015
ELECTRICAL	NEC 2017

PROJECT DESCRIPTION

THE PROPOSED PROJECT INCLUDES:
- CONSTRUCT (1) NEW 255' SELF-SUPPORT TOWER
- CONSTRUCT FENCED GRAVEL UTILITY COMPOUND WITH LOCKING ACCESS GATE, 80' x 80' WITHIN 100' x 100' LEASE AREA.
- INSTALL (1) H-FRAME W/ UTILITY EQUIPMENT.
- INSTALL NEW POWER & TELCO UTILITY SERVICES.
- CONSTRUCT 12' WIDE GRAVEL ACCESS ROAD

DO NOT SCALE DRAWINGS

ALL DRAWINGS CONTAINED HEREIN ARE FORMATTED FOR 11X17.
CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE AND SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!

811

B+T GRP

at&t mobility corp.

HARMONI TOWERS

HARMONI TOWERS
SHARPSBURG KY
FA# 15147587
PACE# MRTNK047531
PT# 10153676
(PROPERTY) 695 RAMEY ROAD
(911) 635 RAMEY ROAD
SHARPSBURG, KY 40374
BATH COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO:	G0137360.00
CHECKED BY:	DLS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	08/24/20	DLS	REVIEW
B	10/15/20	MAS	REVIEW
0	10/28/20	DLS	FINAL

B&T ENGINEERING, INC.
E-1403
Expires 12/31/20

STATE OF KENTUCKY
BRAD P. MILAKOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
10/28/20

TITLE SHEET

SHEET NUMBER:
T-1

PARENT PARCEL

OWNER: DANNY HARMON & VONDA HARMON

SITE ADDRESS: 635 RAMEY RD, SHARPSBURG, KY 40374

PARCEL ID: 004-00-00-006.00

AREA: 110.65 ACRES (PER TAX ASSESSOR)

ZONED: RESIDENTIAL

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS

REFERENCE: DEED BOOK 212 PAGE 526

GPS NOTES

THE FOLLOWING GPS STATISTICS UPON WHICH THIS SURVEY IS BASED HAVE BEEN PRODUCED AT THE 95% CONFIDENCE LEVEL:

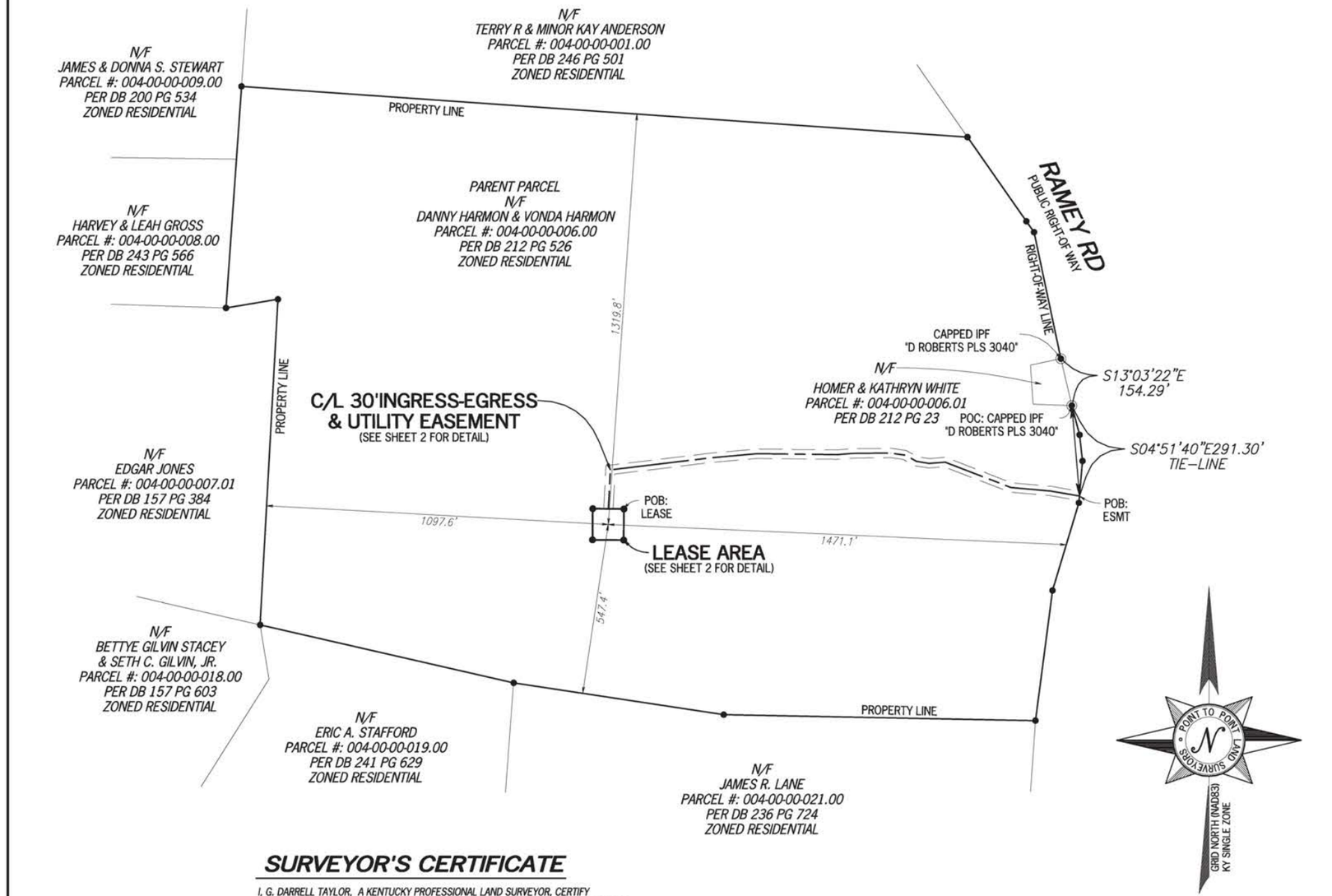
POSITIONAL ACCURACY: 0.01 FEET (HORZ) 0.13 FEET (VERT)
TYPE OF EQUIPMENT: GEOMAX ZENITH35 PRO BASE AND ROVER, DUAL FREQUENCY
TYPE OF GPS FIELD PROCEDURE: ONLINE POSITION USER INTERFACE
DATES OF SURVEY: 12/20/2019
DATUM / EPOCH: NAD_83(2011)(EPOCH:2010.0000)
PUBLISHED / FIXED CONTROL USE: N/A
GEOID MODEL: 18
COMBINED GRID FACTOR(S): 0.99987976 (CENTERED ON THE GPS BASE POINT AS SHOWN HEREON).
CONVERGENCE ANGLE: 1°06'53.64"

TITLE EXCEPTIONS

THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ISSUE DATE OF DECEMBER 18, 2019, BEING ORDER NO. 30548176, FOR THE PARENT PARCEL, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

2. EASEMENT AND RIGHT OF WAY AGREEMENT IN FAVOR OF DELTA NATURAL GAS COMPANY, INC., A KENTUCKY CORPORATION SET FORTH IN INSTRUMENT RECORDED ON AUGUST 29, 1990 IN DEED BOOK 164, PAGE 684.

[THIS ITEM MAY AFFECT THE PARENT PARCEL BUT ITS DESCRIPTION IS TOO VAGUE TO BE PLOTTED]



SURVEYOR'S CERTIFICATE

I, G. DARRELL TAYLOR, A KENTUCKY PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE INFORMATION SHOWN HEREON WAS COMPILED USING DATA FROM AN ACTUAL FIELD SURVEY MADE UNDER MY DIRECT SUPERVISION BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION RATIO OF THE TRAVERSE EXCEEDED 1:10,000 AND WAS NOT ADJUSTED FOR CLOSURE. THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR AN URBAN SURVEY AS ESTABLISHED BY THE STATE OF KENTUCKY, PER 201 KAR 18:150 AND IN EFFECT ON THE DATE OF THIS SURVEY.

G. DARRELL TAYLOR, PLS 4179 — 01/13/2020 DATE

LEGEND

N/F	NOW OR FORMERLY
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
UP	UTILITY POLE
GW	GUY WIRE
TR	TRANSFORMER
IPF	IRON PIN FOUND
SD	SIGHT DISTANCE
TBM	TEMPORARY BENCHMARK

VICINITY MAP

NOT TO SCALE

GENERAL NOTES

* THIS SPECIFIC PURPOSE SURVEY IS FOR THE LEASED PREMISES AND EASEMENTS ONLY. THIS SPECIFIC PURPOSE SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF UNITI TOWERS, LLC AND FIDELITY NATIONAL TITLE INSURANCE COMPANY AND EXCLUSIVELY FOR THE TRANSFERRAL OF THE PROPOSED LEASED PREMISES AND THE RIGHTS OF EASEMENT SHOWN HEREON AND SHALL NOT BE USED AS AN EXHIBIT OR EVIDENCE IN THE FEE SIMPLE TRANSFERRAL OF THE PARENT PARCEL NOR ANY PORTION OR PORTIONS THEREOF. BOUNDARY INFORMATION SHOWN HEREON HAS BEEN COMPILED FROM TAX MAPS AND DEED DESCRIPTIONS ONLY. NO BOUNDARY SURVEY OF THE PARENT PARCEL WAS PERFORMED.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

THE FIELD DATA UPON WHICH THIS SPECIFIC PURPOSE SURVEY IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 10,000+ FEET AND AN ANGULAR ERROR OF 5.0" PER ANGLE POINT AND WAS NOT ADJUSTED FOR CLOSURE.

EQUIPMENT USED FOR ANGULAR & LINEAR MEASUREMENTS: LEICA TPS 1200 ROBOTIC & GEOMAX ZENITH 35. [DATE OF LAST FIELD VISIT: 12/20/2019]

THE 1' CONTOURS AND SPOT ELEVATIONS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE ADJUSTED TO NAVD 88 DATUM (COMPUTED USING GEOID18) AND HAVE A VERTICAL ACCURACY OF ± 0.5'. CONTOURS OUTSIDE THE IMMEDIATE SITE AREA ARE APPROXIMATE.

BEARINGS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE BASED ON GRID NORTH (NAD 83) KY SINGLE ZONE.

PER THE FEMA FLOODPLAIN MAPS, THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE X (AREA OF MINIMAL FLOOD HAZARD). COMMUNITY PANEL NO. : 21011C0085C DATED: 12/17/2010

NO WETLAND AREAS HAVE BEEN INVESTIGATED BY THIS SPECIFIC PURPOSE SURVEY.

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS.

ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM ABOVE GROUND FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEES THAT ANY UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT ANY UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ANY UNDERGROUND UTILITIES.

SURVEY NOT VALID WITHOUT SHEET 2 & 3 OF 3

811 Know what's below. Call before you dig.

STATE of KENTUCKY
G. DARRELL TAYLOR
4179
LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION
1	5/28/2020	UTILITY NOTE
2	6/23/2020	E911 ADDRESS

* SPECIFIC PURPOSE SURVEY PREPARED BY:
POINT TO POINT LAND SURVEYORS
100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com

SPECIFIC PURPOSE SURVEY PREPARED FOR:

Uniti Towers

SHARPSBURG KY

SITE NO.
KYLEX2050
BATH COUNTY, KENTUCKY
NORTH OF THE TOWN OF SHARPSBURG

DRAWN BY: RMR	SHEET:
CHECKED BY: JKL	1
APPROVED: D. MILLER	OF 3
DATE: JANUARY 13, 2020	
P2P JOB #: 195337KY	

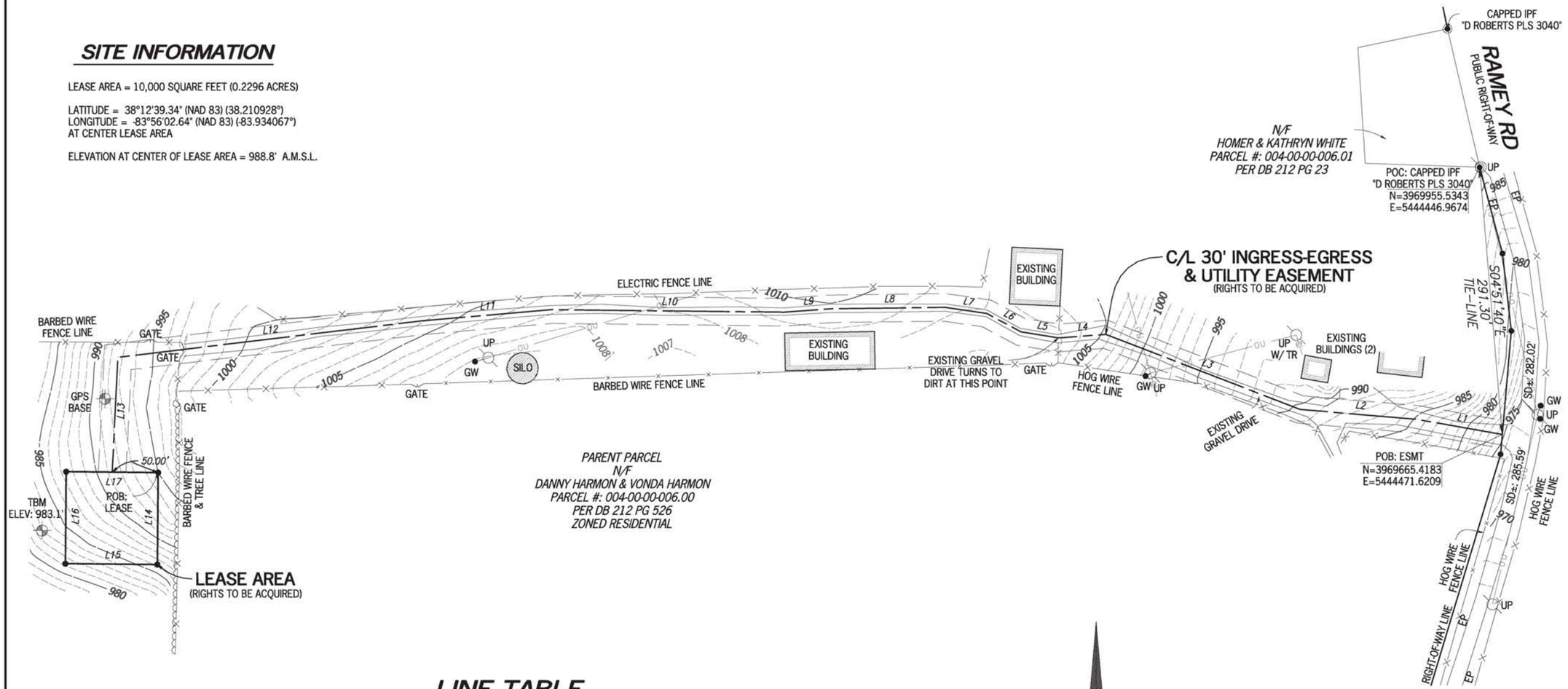
E:\Dropbox (Point To Point)\P2P Current Jobs\2019\195337KY\4X\EX2050 Sharpsburg KY\195337ky.pro

SITE INFORMATION

LEASE AREA = 10,000 SQUARE FEET (0.2296 ACRES)

LATITUDE = 38°12'39.34" (NAD 83) (38.210928°)
LONGITUDE = -83°56'02.64" (NAD 83) (-83.934067°)
AT CENTER LEASE AREA

ELEVATION AT CENTER OF LEASE AREA = 988.8' A.M.S.L.



LINE TABLE

LINE	BEARING	DISTANCE
L1	N80°00'54"W	94.05'
L2	N85°07'01"W	127.62'
L3	N68°52'56"W	226.63'
L4	S85°35'56"W	51.58'
L5	N80°40'07"W	41.28'
L6	N61°50'47"W	42.33'
L7	N81°47'18"W	45.73'
L8	S89°20'03"W	123.48'
L9	S85°48'54"W	51.25'
L10	N89°21'51"W	252.80'
L11	S85°04'36"W	141.51'
L12	S83°10'07"W	333.41'
L13	S02°50'18"W	125.05'
L14	S00°31'22"W	100.00'
L15	N89°28'38"W	100.00'
L16	N00°31'22"E	100.00'
L17	S89°28'38"E	100.00'

LEGEND

N/F	NOW OR FORMERLY
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
UP	UTILITY POLE
GW	GUY WIRE
TR	TRANSFORMER
IPF	IRON PIN FOUND
SD	SIGHT DISTANCE
TBM	TEMPORARY BENCHMARK

60 0 120 240
GRAPHIC SCALE IN FEET
SCALE: 1" = 120'

UTILITY LOCATION NOTE

THIS SITE WAS SURVEYED AFTER NOTIFYING KENTUCKY 811 ON MAY 26,2020 AND NO ADDITIONAL UNDERGROUND SURVEY MARKS WERE FOUND.

KENTUCKY 811 TICKET 2005181478 - SUBMITTED MAY 18, 2020 2:03 PM.

SURVEY NOT VALID WITHOUT SHEET 1 & 3 OF 3

STATE of KENTUCKY
G. DARRELL TAYLOR
4179
LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION
1	5/28/2020	UTILITY NOTE
2	6/23/2020	E911 ADDRESS

* SPECIFIC PURPOSE SURVEY PREPARED BY:

POINT TO POINT LAND SURVEYORS
100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com

SPECIFIC PURPOSE SURVEY PREPARED FOR:

Uniti Towers

SHARPSBURG KY

SITE NO.
KYLEX2050
BATH COUNTY, KENTUCKY
NORTH OF THE TOWN OF SHARPSBURG

DRAWN BY: RMR
CHECKED BY: JKL
APPROVED: D. MILLER
DATE: JANUARY 13, 2020
P2P JOB #: 195337KY

SHEET: 2 OF 3

E:\Dropbox (Point To Point)\P2P Current Jobs\2019\195337KY\KYLEX2050 Sharpsburg KY\195337ky.pro

LEGAL DESCRIPTION SHEET

LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN BATH COUNTY, KENTUCKY NORTH OF THE TOWN OF SHARPSBURG, AND BEING A PART OF THE LANDS OF DANNY HARMON & VONDA HARMON AS RECORDED IN DEED BOOK 212, PAGE 526, BATH COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED IRON PIN (INSCRIBED "D ROBERTS PLS 3040") FOUND ON THE WEST RIGHT-OF-WAY LINE OF RAMEY ROAD, SAID PIN HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3969955.5343 E: 5444446.9674; THENCE LEAVING SAID RIGHT-OF-WAY LINE RUNNING ALONG A TIE LINE, SOUTH 04°51'40" WEST, 291.30 FEET TO POINT ON THE WEST RIGHT-OF-WAY LINE OF RAMEY ROAD HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3969665.4183 E: 5444471.6209; THENCE LEAVING SAID RIGHT-OF-WAY LINE, NORTH 80°00'54" WEST, 94.05 FEET TO A POINT; THENCE, NORTH 85°07'01" WEST, 127.62 FEET TO A POINT; THENCE, NORTH 68°52'56" WEST, 226.63 FEET TO A POINT; THENCE, SOUTH 85°35'56" WEST, 51.58 FEET TO A POINT; THENCE, NORTH 80°40'07" WEST, 41.28 FEET TO A POINT; THENCE, NORTH 61°50'47" WEST, 42.33 FEET TO A POINT; THENCE, NORTH 81°47'18" WEST, 45.73 FEET TO A POINT; THENCE, SOUTH 89°20'03" WEST, 123.48 FEET TO A POINT; THENCE, SOUTH 85°48'54" WEST, 51.25 FEET TO A POINT; THENCE, NORTH 89°21'51" WEST, 252.80 FEET TO A POINT; THENCE, SOUTH 85°04'36" WEST, 141.51 FEET TO A POINT; THENCE, SOUTH 83°10'07" WEST, 333.41 FEET TO A POINT; THENCE, SOUTH 02°50'18" WEST, 125.05 FEET TO A POINT ON THE LEASE AREA LINE; THENCE ALONG SAID LEASE AREA LINE, SOUTH 89°28'38" EAST, 50.00 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE, SOUTH 00°31'22" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 89°28'38" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 00°31'22" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 89°28'38" EAST, 100.00 FEET TO A POINT AND THE POINT OF BEGINNING.

BEARINGS ARE BASED ON KENTUCKY GRID NORTH, NAD83, SINGLE ZONE.

SAID TRACT CONTAINS 0.2296 ACRES (10,000 SQUARE FEET), MORE OR LESS.

30' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 30-FOOT WIDE INGRESS-EGRESS AND UTILITY EASEMENT (15 FEET EACH SIDE OF CENTERLINE) LYING AND BEING IN BATH COUNTY, KENTUCKY NORTH OF THE TOWN OF SHARPSBURG, AND BEING A PART OF THE LANDS OF DANNY HARMON & VONDA HARMON AS RECORDED IN DEED BOOK 212, PAGE 526, BATH COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED IRON PIN (INSCRIBED "D ROBERTS PLS 3040") FOUND ON THE WEST RIGHT-OF-WAY LINE OF RAMEY ROAD, SAID PIN HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3969955.5343 E: 5444446.9674; THENCE LEAVING SAID RIGHT-OF-WAY LINE RUNNING ALONG A TIE LINE, SOUTH 04°51'40" WEST, 291.30 FEET TO POINT ON THE WEST RIGHT-OF-WAY LINE OF RAMEY ROAD AND TRUE POINT OF BEGINNING HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3969665.4183 E: 5444471.6209; THENCE LEAVING SAID RIGHT-OF-WAY LINE, NORTH 80°00'54" WEST, 94.05 FEET TO A POINT; THENCE, NORTH 85°07'01" WEST, 127.62 FEET TO A POINT; THENCE, NORTH 68°52'56" WEST, 226.63 FEET TO A POINT; THENCE, SOUTH 85°35'56" WEST, 51.58 FEET TO A POINT; THENCE, NORTH 80°40'07" WEST, 41.28 FEET TO A POINT; THENCE, NORTH 61°50'47" WEST, 42.33 FEET TO A POINT; THENCE, NORTH 81°47'18" WEST, 45.73 FEET TO A POINT; THENCE, SOUTH 89°20'03" WEST, 123.48 FEET TO A POINT; THENCE, SOUTH 85°48'54" WEST, 51.25 FEET TO A POINT; THENCE, NORTH 89°21'51" WEST, 252.80 FEET TO A POINT; THENCE, SOUTH 85°04'36" WEST, 141.51 FEET TO A POINT; THENCE, SOUTH 83°10'07" WEST, 333.41 FEET TO A POINT; THENCE, SOUTH 02°50'18" WEST, 125.05 FEET TO A POINT ON THE LEASE AREA LINE.

BEARINGS ARE BASED ON KENTUCKY GRID NORTH, NAD83, SINGLE ZONE.

PARENT PARCEL

(PER ORDER NO.: 30548176)

PROPERTY LOCATED IN BATH COUNTY, KENTUCKY

ALL THAT CERTAIN REAL ESTATE LYING AND BEING IN BATH COUNTY, KENTUCKY NORTH OF THE TOWN OF SHARPSBURG AND LYING ALONG THE PIKE LEADING FROM SHARPSBURG, KENTUCKY TO EAST UNION AND BOUNDED WITH MORE CERTAINTY, AS FOLLOWS, TO-WIT:

BEGINNING UPON THE CENTER OF THE PIKE A CORNER TO THE TRACT CONVEYED TO J. E. RAMEY; THENCE WITH THE PIKE DIVIDING IT ABOUT EQUALLY S 35 E 5.64 CHAINS S 11 E 7.86 CHAINS S 18 ½ E 2.25 CHAINS S 6 ½ E 1.28 CHAINS S 5 W 2.04 CHAINS S 16 ¾ W 4.45 S 7 ½ W 6.37 CHAINS S 4 W 16.16 CHAINS S ¼ E 1.38 CHAINS TO A POINT A LITTLE TO THE - OF THE CENTER OF THE PIKE A CORNER TO MRS. TURNER, THENCE LEAVING THE PIKE WITH HER LINE N 86 1/8 W 2.65 CHAINS TO A POST AT THE CORNER OF THE FENCE, THENCE S 1 ½ W 7.01 CHAINS TO A POST CORNER TO SAME AND NEAR THE STABLE, THENCE N 83 ¾ W 15.31 CHAINS TO A POINT UPON THE CENTER OF THE PIKE LEADING FROM SHARPSBURG TO EAST UNION (RATLIFF PIKE); THENCE N 8 ¼ E 13.07 CHAINS TO A SET STONE, THENCE N 85 ½ W 8.87 CHAINS TO A POINT AGAINST THE EAST SIDE OF A LOCUST TREE CORNER TO E. CARTER, THENCE N 4 ¼ E 10.88 CHAINS TO A POINT CORNER TO MRS. CONWAY, THENCE N 77 1/8 W 12.64 CHAINS TO ON ASH TREE CORNER TO MRS. CONWAY AND JESSE HENRY, THENCE N 3 1/8 E 15.84 CHAINS TO ON OAK TREE CORNER TO FRANK HENRY, THENCE S 80 ½ W 2.56 CHAINS TO A POST CORNER TO THOMPSON, THENCE N 4 E 10.80 CHAINS TO A SET STONE IN W. C. HALL'S LINE, A CORNER TO RAMEY TRACT, THENCE WITH THE LINE OF SAME S 86 E 35.38 CHAINS TO THE BEGINNING, CONTAINING ONE HUNDRED AND FIFTY-SIX (156) ACRES AND TWO (2) POLES.

THERE IS EXCLUDED AND NOT HEREBY CONVEYED THAT CERTAIN TRACT OF LAND CONTAINING 46 ACRES, MORE OR LESS, CONVEYED FEBRUARY 27, 1961 FROM ARNOLD GOODPASTER AND GENEVA GOODPASTER, HIS WIFE, TO MRS. FANNIE BROWN, OF RECORD AT DEED BOOK 119, PAGE 39, AT THE OFFICE OF THE BATH COUNTY CLERK.

THERE IS ALSO EXCLUDED AND NOT HEREBY CONVEYED THAT CERTAIN TRACT OF LAND CONVEYED JANUARY 27, 2006 FROM LESLIE RICHARDSON SMITH, AS EXECUTRIX OF THE ESTATE OF ARNOLD GOODPASTER, AS SET OUT IN ARTICLE VIII OF THE LAST WILL AND TESTAMENT OF ARNOLD GOODPASTER, TO KATHRYN WHITE AND HOMER WHITE, WIFE AND HUSBAND, OF RECORD AT DEED BOOK 212, PAGE 23, AT THE OFFICE OF THE BATH COUNTY CLERK AND DESCRIBED AS FOLLOWS:

A CERTAIN TRACT OR PARCEL OF LAND LOCATED IN BATH COUNTY, KENTUCKY ON RAMEY ROAD APPROXIMATELY ¾ +/- MILES NORTH OF SHARPSBURG AND DESCRIBED AS FOLLOWS:

COMMENCING AT A STEEL PIN SET IN THE RIGHT OF WAY OF RAMEY ROAD, SAID PIN BEING APPROXIMATELY 795.0' FROM THE NORTH PROPERTY LINE OF THE PARENT TRACT (D.B. 119, PAGE 44); THENCE WITH A NEW DIVISION SOUTH 83 DEGREES 50 MINUTES 57 SECONDS WEST, A DISTANCE OF 99.58 FEET TO A STEEL PIN SET; SOUTH 2 DEGREES 03 MINUTES 19 SECONDS WEST, A DISTANCE OF 125.75 FEET TO A STEEL PIN SET; SOUTH 82 DEGREES 17 MINUTES 08 SECONDS EAST, A DISTANCE OF 124.34 FEET TO A STEEL PIN SET, IN THE RIGHT OF WAY OF RAMEY ROAD; THENCE WITH SAID RIGHT OF WAY NORTH 7 DEGREES 19 MINUTES 55 SECONDS WEST, A DISTANCE OF 154.29 FEET TO THE POINT OF BEGINNING; SAID DESCRIBED TRACT CONTAINING 0.35 ACRE, MORE OR LESS.

THE ABOVE DESCRIBED PROPERTY WAS SURVEYED BY ROBERTS SURVEYING, INC. ON JANUARY 16, 2006. THIS IS A CLASS A SURVEY AND ALL PINS SET ARE ½" X 18" REBAR WITH ID CAP STAMPED D. ROBERTS PLS # 3040. AND BEING THE SAME PROPERTY CONVEYED TO DANNY HARMON AND VONDA HARMON FROM DANNY HARMON AND VONDA HARMON BY DEED OF CONVEYANCE DATED MARCH 29, 2006 AND RECORDED MARCH 29, 2006 IN DEED BOOK 212, PAGE 526.

TAX PARCEL NO. 004-00-00-006.00

SURVEY NOT VALID WITHOUT SHEET 1 & 2 OF 3

STATE of KENTUCKY
G. DARRELL TAYLOR
4179
LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION
1	5/28/2020	UTILITY NOTE
2	6/23/2020	E911 ADDRESS

* SPECIFIC PURPOSE SURVEY PREPARED BY:
POINT TO POINT LAND SURVEYORS
100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com

SPECIFIC PURPOSE SURVEY PREPARED FOR:

Uniti Towers

SHARPSBURG KY

SITE NO. KYLEX2050
BATH COUNTY, KENTUCKY
NORTH OF THE TOWN OF SHARPSBURG

DRAWN BY: RMR
CHECKED BY: JKL
APPROVED: D. MILLER
DATE: JANUARY 13, 2020
P2P JOB #: 195337KY

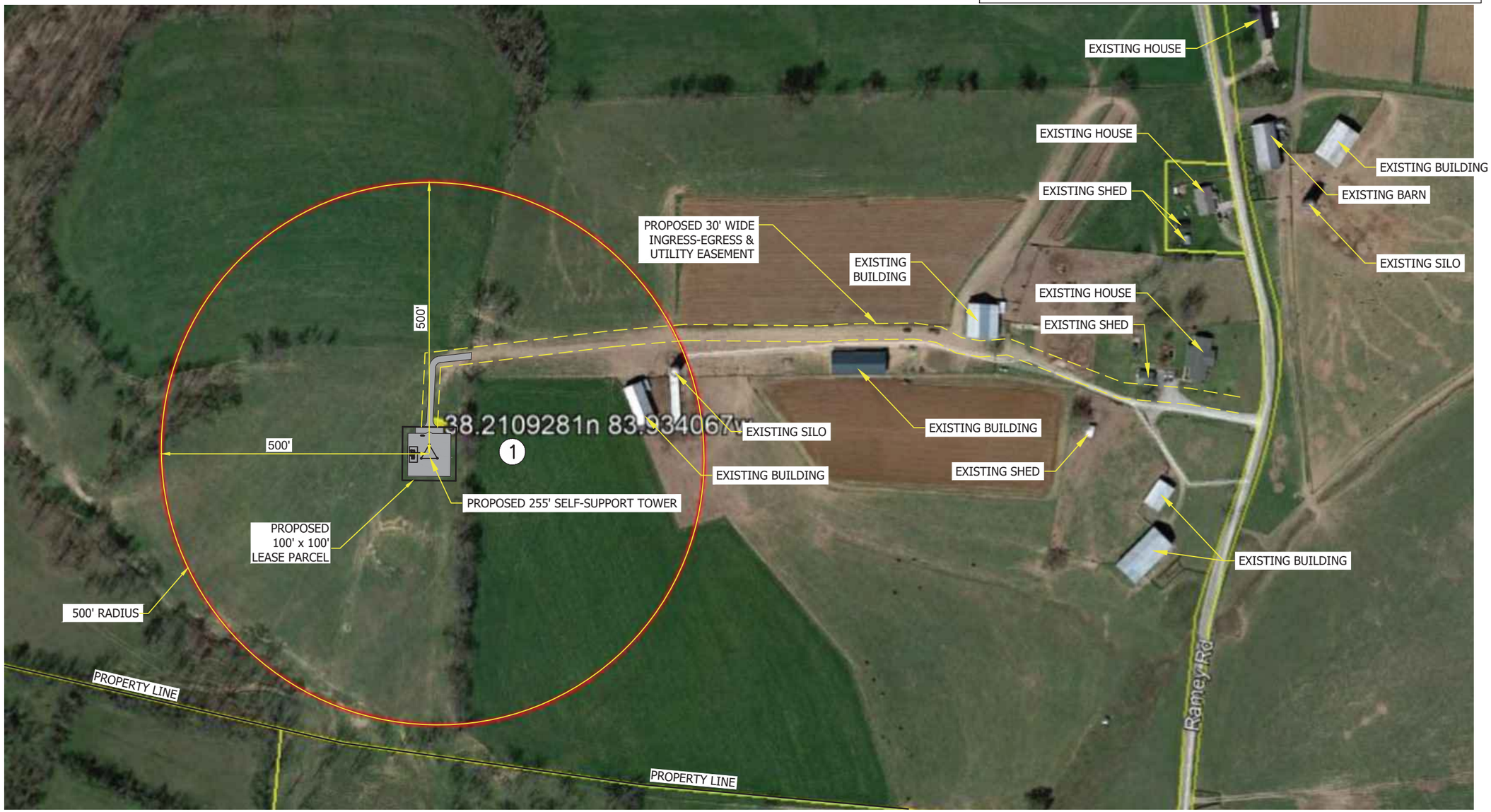
SHEET: 3 OF 3

E:\Dropbox (Point To Point)\P2P Current Jobs\2019\195337KY\KYLEX2050 Sharpsburg KY\195337ky.pro

#	OWNER	ADDRESS	PID	REF
1	DANNY & VONDA HARMON	695 RAMEY ROAD SHARPSBURG, KY 40374	004-00-00-006.00	DB 212 PG 526

NOTE:

1. SEE SHT. C-1.0 FOR INFORMATION ON ADDITIONAL PROPERTIES #2 - #11.
2. PVA INFORMATION WAS OBTAINED ON 7/17/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
3. THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
4. NOT FOR RECORDING OR PROPERTY TRANSFER.



1 500' RADIUS & ADJOINER'S DRAWING

SCALE: 0' 100' 200' 300' 400' 1"=200'

N

CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!

811

B+T GRP

at&t mobility corp.

HARMONI TOWERS

HARMONI TOWERS
SHARPSBURG KY
FA# 15147587
PACE# MRTNK047531
PT# 10153676
(PROPERTY) 695 RAMEY ROAD
(911) 635 RAMEY ROAD
SHARPSBURG, KY 40374
BATH COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO:	G0137360.00
CHECKED BY:	DLS

ISSUED FOR:

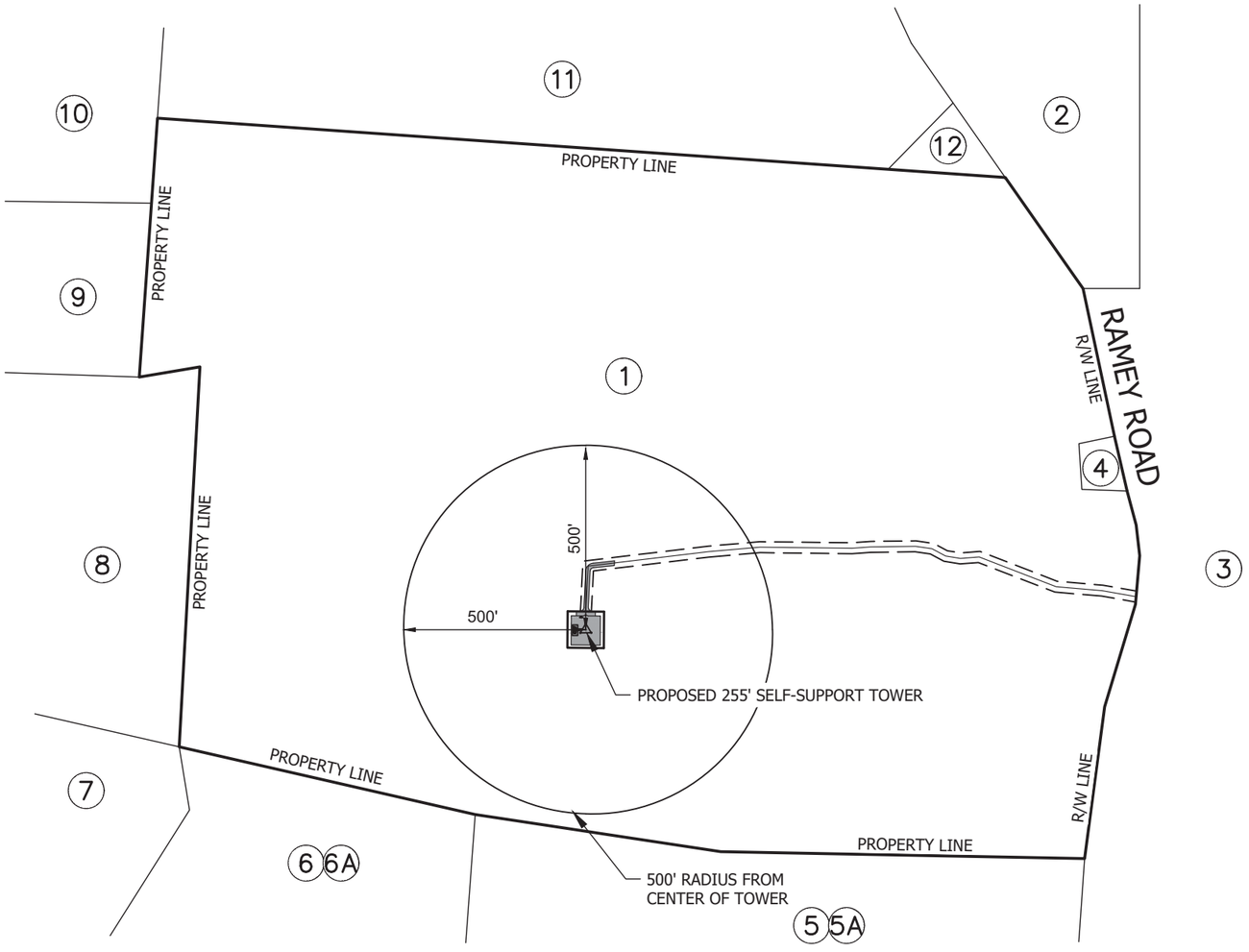
REV	DATE	DRWN	DESCRIPTION
A	08/24/20	DLS	REVIEW
B	10/15/20	MAS	REVIEW
0	10/28/20	DLS	FINAL

B&T ENGINEERING, INC.
E-1403
Expires 12/31/20

STATE OF KENTUCKY
BRAD R. MILANOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
10/28/20

500' RADIUS & ADJOINER'S DRAWING

SHEET NUMBER:
C-1.0



#	OWNER	ADDRESS	PID	REF
1	DANNY & VONDA HARMON	695 RAMEY RD SHARPSBURG, KY 40374	004-00-00-006.00	DB 212 PG 526
2	FRANCIS C. RAMEY	224 WEST MAIN ST MT STERLING, KY 40353	004-00-00-002.00	-
3	SWARTZ MOWING INC	P.O. BOX 124 OLYMPIA, KY 40358	004-00-00-004.00	-
4	HOMER & KATHRYN WHITE	P.O. BOX 254 SHARPSBURG, KY 40374	004-00-00-006.01	DB 212 PG 23
5	JAMES R. LANE	2144 RATLIFF ROAD SHARPSBURG, KY 40374	004-00-00-021.00	DB 236 PG 724
5A	SHARED TOWERS ACQUISITION 2010 DBA SHARED TOWERS ACQU	8051 CONGRESS AVE, BOCA RATON , FL 33487-1307	004-00-00-021. 00L_1	DB 236 PG 724
6	ERIC A STAFFORD	646 RATLIFF ROAD SHARPSBURG, KY 40374	004-00-00-019.00	DB 241 PG 629
6A	BEVERLY MEYERS	694 RATLIFF ROAD SHARPSBURG, KY 40374	004-00-00-019. 00L_1	-
7	BETTY & SETH GILVIN	P.O. BOX 129 SHARPSBURG, KY 40374	004-00-00-018.00	DB 157 PG 603
8	EDGAR JONES	P.O. BOX 174 SHARPSBURG, KY 40374	004-00-00-007.01	DB 157 PG 384
9	HARVEY & LEAH GROSS	1176 RATLIFF ROAD SHARPSBURG, KY 40374	004-00-00-008.00	DB 243 PG 566
10	JAMES & DONNA STEWART	1396 RATLIFF ROAD SHARPSBURG, KY 40374	004-00-00-009.00	DB 200 PG 534
11	TERRY & KAY ANDERSON	1475 RAMEY ROAD SHARPSBURG, KY 40374	004-00-00-001.00	DB 246 PG 501
12	JEREMY HARMON	937 RAMEY ROAD SHARPSBURG, KY 40374	004-00-00-002.02	-

NOTE:

1. SEE SHT. C-1.0 FOR INFORMATION ON PROPERTY #1.
2. SEE SHT C-1.0 FOR STRUCTURE INFORMATION WITHIN 500' OF PROPOSED TOWER.
3. PVA INFORMATION WAS OBTAINED ON 7/17/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
4. THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
5. NOT FOR RECORDING OR PROPERTY TRANSFER.

1 OVERALL ADJOINER'S DRAWING

SCALE: 0' 200' 400' 600' 800' 1"=400'

N

CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!

811

B+T GRP

at&t mobility corp.

HARMONI TOWERS

HARMONI TOWERS
SHARPSBURG KY
FA# 15147587
PACE# MRTNK047531
PT# 10153676
(PROPERTY) 695 RAMEY ROAD
(911) 635 RAMEY ROAD
SHARPSBURG, KY 40374
BATH COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO:	G0137360.00
CHECKED BY:	DLS

ISSUED FOR:

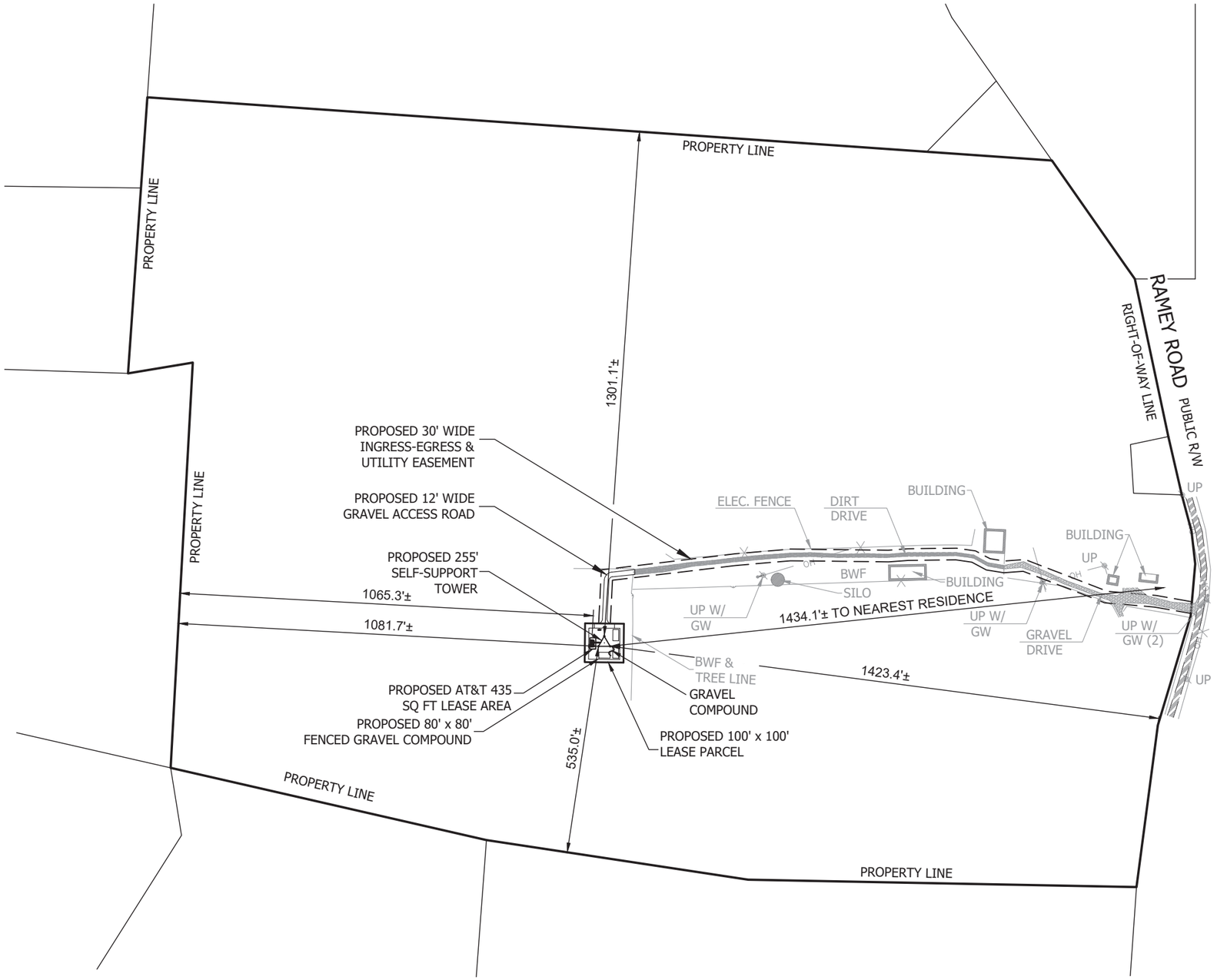
REV	DATE	DRWN	DESCRIPTION
A	08/24/20	DLS	REVIEW
B	10/15/20	MAS	REVIEW
0	10/28/20	DLS	FINAL

B&T ENGINEERING, INC.
E-1403
Expires 12/31/20

STATE OF KENTUCKY
BRAD P. MILAKOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
10/28/20

OVERALL ADJOINER'S DRAWING

SHEET NUMBER:
C-1.1



1 OVERALL SITE LAYOUT
SCALE: 0' 150' 300' 450' 600' 1"=300'

N

NOTES:

1. TOWER LATITUDE, LONGITUDE & ELEVATION MEET FAA"1-A" ACCURACY REQUIREMENTS.

2. CENTER OF TOWER:

LATITUDE: NORTH 38°12'39.34" (38.210928) NAD 83
LONGITUDE: WEST -83°56'02.64" (-83.934067) NAD 83
GROUND ELEVATION @ 988.8' A.M.S.L. NAVD 88

3. THE APPROXIMATE PERPENDICULAR DISTANCES FROM THE OUTER EDGE OF THE PROPOSED TOWER TO PARENT TRACT NEAREST PROPERTY LINE ARE AS FOLLOWS:

NORTHEAST:	1301.1'±
SOUTHWEST:	535.0'±
SOUTHEAST:	1423.4'±
NORTHWEST:	1081.7'±

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HARMONI TOWERS

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(PROPERTY) 695 RAMEY ROAD
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SHARPSBURG, KY 40374
BATH COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO:	G0137360.00
CHECKED BY:	DLS

ISSUED FOR:

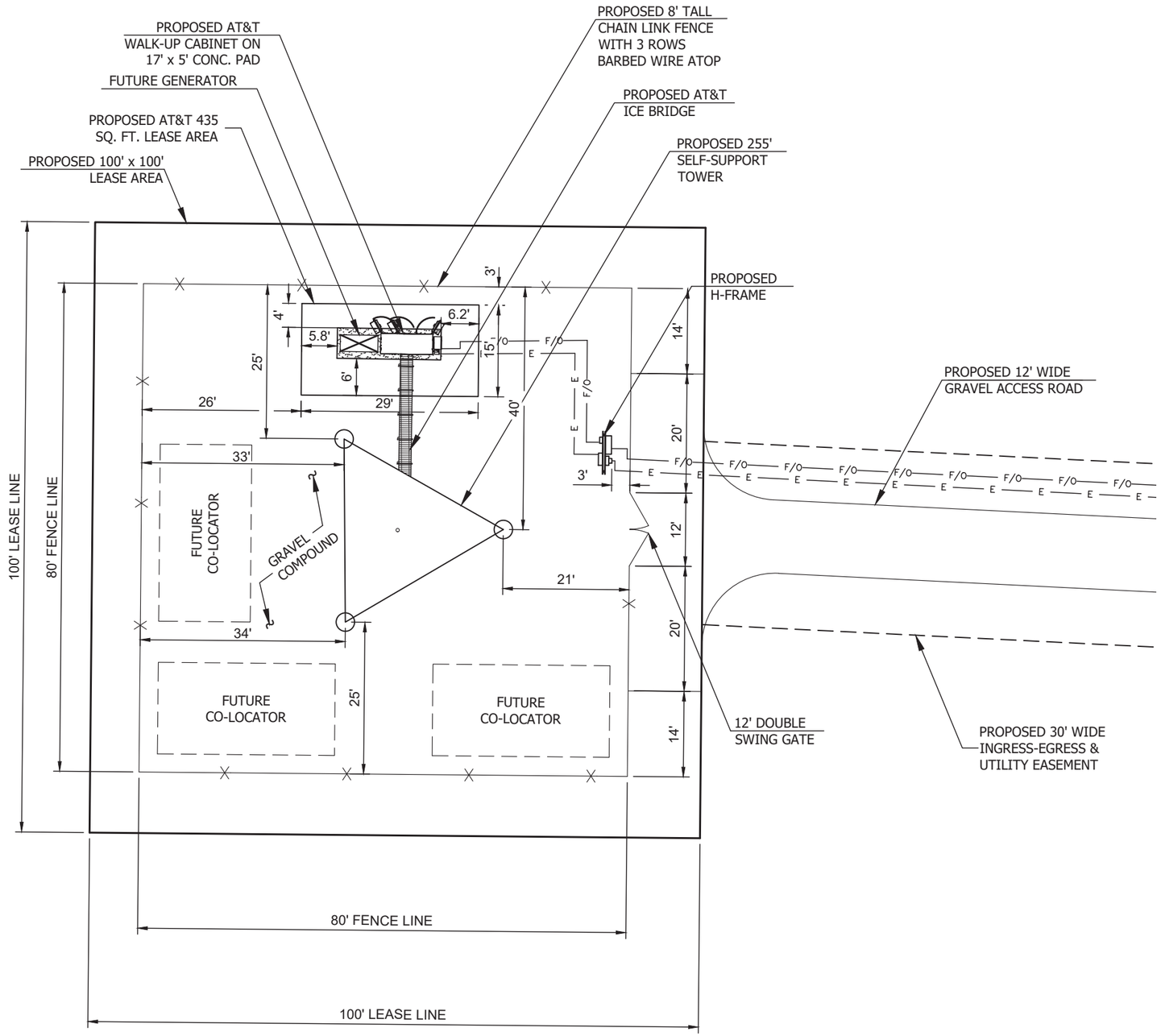
REV	DATE	DRWN	DESCRIPTION
A	08/24/20	DLS	REVIEW
B	10/15/20	MAS	REVIEW
0	10/28/20	DLS	FINAL

B&T ENGINEERING, INC.
E-1403
Expires 12/31/20

STATE OF KENTUCKY
BRAD R. MILANOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
10/28/20

OVERALL SITE LAYOUT

SHEET NUMBER:
C-2



1 ENLARGED COMPOUND LAYOUT
SCALE: 0' 10' 20' 30' 40' 1"=20'

N

CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!

811

B+T GRP

at&t mobility corp.

HARMONI TOWERS

HARMONI TOWERS
SHARPSBURG KY
FA# 15147587
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(PROPERTY) 695 RAMEY ROAD
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SHARPSBURG, KY 40374
BATH COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO:	G0137360.00
CHECKED BY:	DLS

ISSUED FOR:

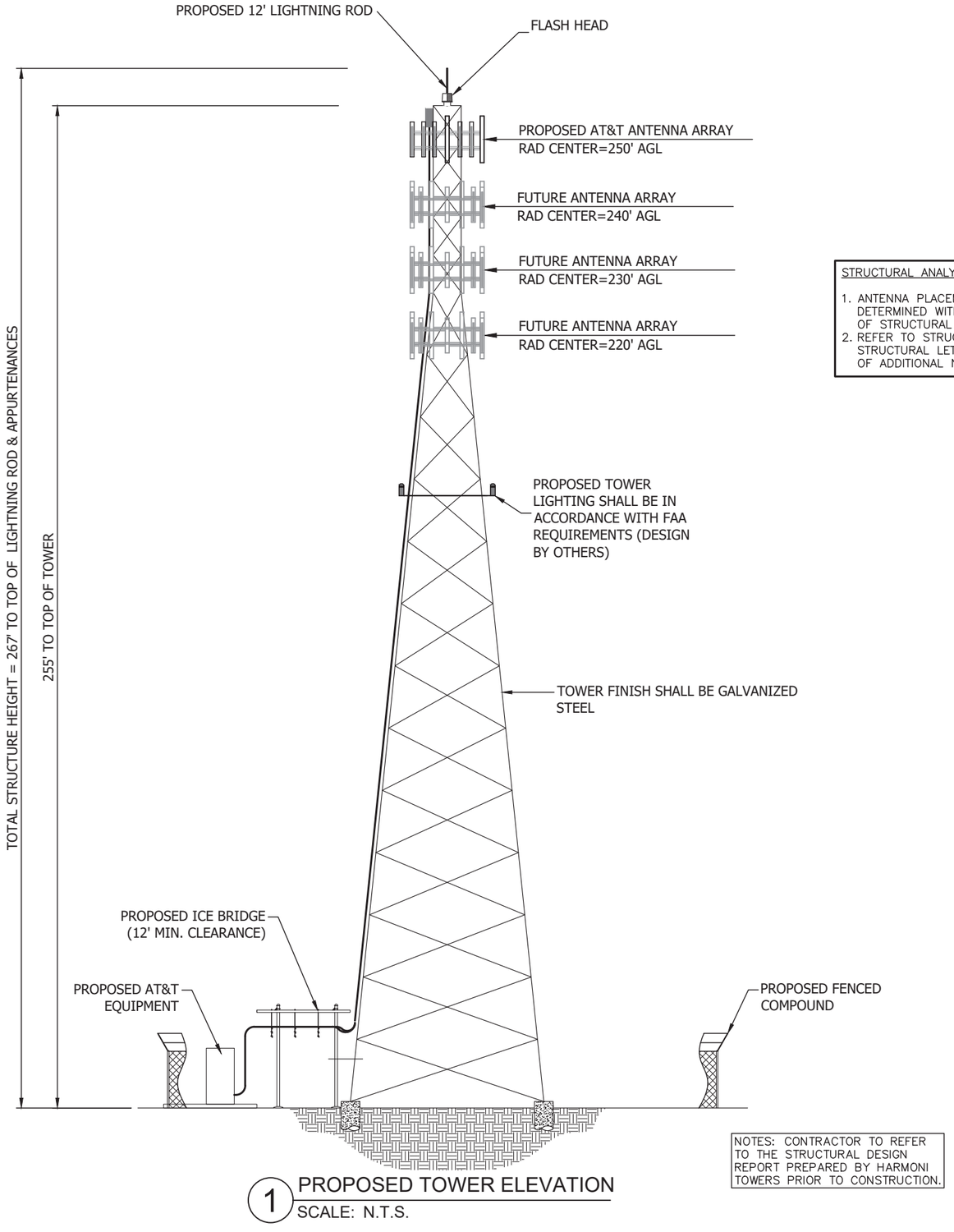
REV	DATE	DRWN	DESCRIPTION
A	08/24/20	DLS	REVIEW
B	10/15/20	MAS	REVIEW
0	10/28/20	DLS	FINAL

B&T ENGINEERING, INC.
E-1403
Expires 12/31/20

STATE OF KENTUCKY
BRAD D. MILANOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
10/28/20

ENLARGED COMPOUND LAYOUT

SHEET NUMBER:
C-3



STRUCTURAL ANALYSIS NOTES:

1. ANTENNA PLACEMENT WAS DETERMINED WITHOUT VERIFICATION OF STRUCTURAL ANALYSIS.
2. REFER TO STRUCTURAL ANALYSIS OR STRUCTURAL LETTER FOR APPROVAL OF ADDITIONAL NEW APPURTENANCES.

NOTES: CONTRACTOR TO REFER TO THE STRUCTURAL DESIGN REPORT PREPARED BY HARMONI TOWERS PRIOR TO CONSTRUCTION.

1 PROPOSED TOWER ELEVATION
SCALE: N.T.S.

B+T GRP

at&t mobility corp.

HARMONI TOWERS

HARMONI TOWERS
SHARPSBURG KY
FA# 15147587
PACE# MRTNK047531
PT# 10153676
(PROPERTY) 695 RAMEY ROAD
(911) 635 RAMEY ROAD
SHARPSBURG, KY 40374
BATH COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO:	G0137360.00
CHECKED BY:	DLS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	08/24/20	DLS	REVIEW
B	10/15/20	MAS	REVIEW
0	10/28/20	DLS	FINAL

B&T ENGINEERING, INC.
E-1403
Expires 12/31/20

TOWER ELEVATION

SHEET NUMBER:
C-4

EXHIBIT C
TOWER AND FOUNDATION DESIGN

Uniti

Uniti Group Corporate Headquarters
10802 Executive Center Drive
Benton Building, Ste. 300
Little Rock, AR 72211
501.850.0820 | uniti.com

July 20, 2020

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

RE: Site Name – Sharpsburg Relo
Proposed Cell Tower
38.2109280 North Latitude, 83.9340670 West Longitude

Dear Commissioners:
The Construction Manager for the proposed new communications facility will be Jeremy Culpepper. His contact information is (985) 707-6175 or Jeremy.Culpepper@uniti.com.
Jeremy has been in the industry completing civil construction and constructing towers since 1998. He has worked at Uniti Towers LLC since 2018 completing project and construction management on new site build projects.

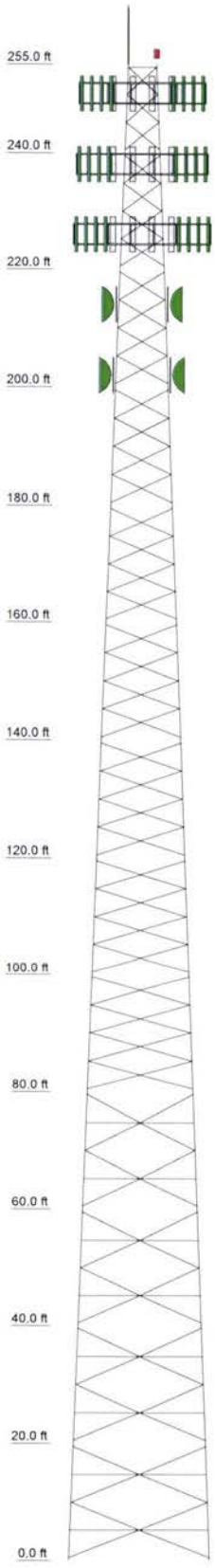
Thank you,

Jeremy Culpepper Digitally signed by Jeremy Culpepper
Date: 2020.07.20 11:09:14 -05'00'

Jeremy Culpeper
Construction Manager – Tennessee/Kentucky Market
Uniti Towers LLC
(985) 707-6175

Uniti Fiber Division Headquarters
107 St. Francis Street, Ste. 1800
Mobile, AL 36602
251.662.1170 | unitifiber.com
New Orleans | Birmingham | Jackson | St. Petersburg | Dallas | Monroe

Uniti Towers Division Headquarters
10801 Executive Center Drive, Shannon Bldg., Ste. 100
Little Rock, AR 72211
501.850.0820| unititowers.com
Domestic | International



Section	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs		SR 4 1/4		SR 4		SR 3 3/4	SR 3 1/2	SR 3 1/4	SR 3	SR 2 3/4	SR 2 1/2	SR 2	SR 1 3/4
Leg Grade							A529-50						
Diagonals	2L3x3x3/16x3/8		2L2 1/2x2 1/2x3/16x3/8		L3x3x1/4		L3x3x3/16		L2 1/2x2 1/2x3/16		L2x2x3/16		L1 3/4x1 3/4x3/16
Diagonal Grade							A36M-50						
Top Girts							N.A.						A
Horizontals	C		2L2x2x3/16x3/8	B			N.A.						
Inner Bracing			L1 3/4x1 3/4x3/16				N.A.						
Face Width (ft)	24	22.5	21	19.5	18	16.5	15	13.5	12	10.5	9	7.5	6	4.875
# Panels @ (ft)						48 @ 4.75							3 @ 4.66667
Weight (K)	42.6	6.1	5.4	4.9	4.7	4.4	3.4	3.3	2.7	2.3	2.0	1.6	1.1	0.7

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod 1"x10'	255	Sector1(CaAa=10000 Sq.in)No Ice (Carrier 3)	226
Top Beacon	255		
Sector1(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	250	Sector2(CaAa=10000 Sq.in)No Ice (Carrier 3)	226
Sector2(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	250	Sector3(CaAa=10000 Sq.in)No Ice (Carrier 3)	226
Sector3(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	250	4 1/2" OD Dish Mount (Carrier 4)	214
		4 1/2" OD Dish Mount (Carrier 4)	214
Sector1(CaAa=10000 Sq.in)No Ice (Carrier 2)	238	6' MW Dish (Carrier 4)	214
		6' MW Dish (Carrier 4)	214
Sector2(CaAa=10000 Sq.in)No Ice (Carrier 2)	238	4 1/2" OD Dish Mount (Carrier 5)	202
		4 1/2" OD Dish Mount (Carrier 5)	202
Sector3(CaAa=10000 Sq.in)No Ice (Carrier 2)	238	6' MW Dish (Carrier 5)	202
		6' MW Dish (Carrier 5)	202

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	L1 3/4x1 3/4x3/16	C	2L2 1/2x2 1/2x3/16x3/8
B	2L1 3/4x1 3/4x3/16x3/8		

MATERIAL STRENGTH

GRADE	Fy	Fu	GRADE	Fy	Fu
A529-50	50 ksi	65 ksi	A36M-50	50 ksi	65 ksi

TOWER DESIGN NOTES

1. Tower is located in Bath County, Kentucky.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 106 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 30 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.000 ft
8. Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity.

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 515 K
SHEAR: 39 K

UPLIFT: -447 K
SHEAR: 35 K

AXIAL 213 K
SHEAR 9 K *MOMENT 1515 kip-ft*
TORQUE 5 kip-ft
30 mph WIND - 1.500 in ICE

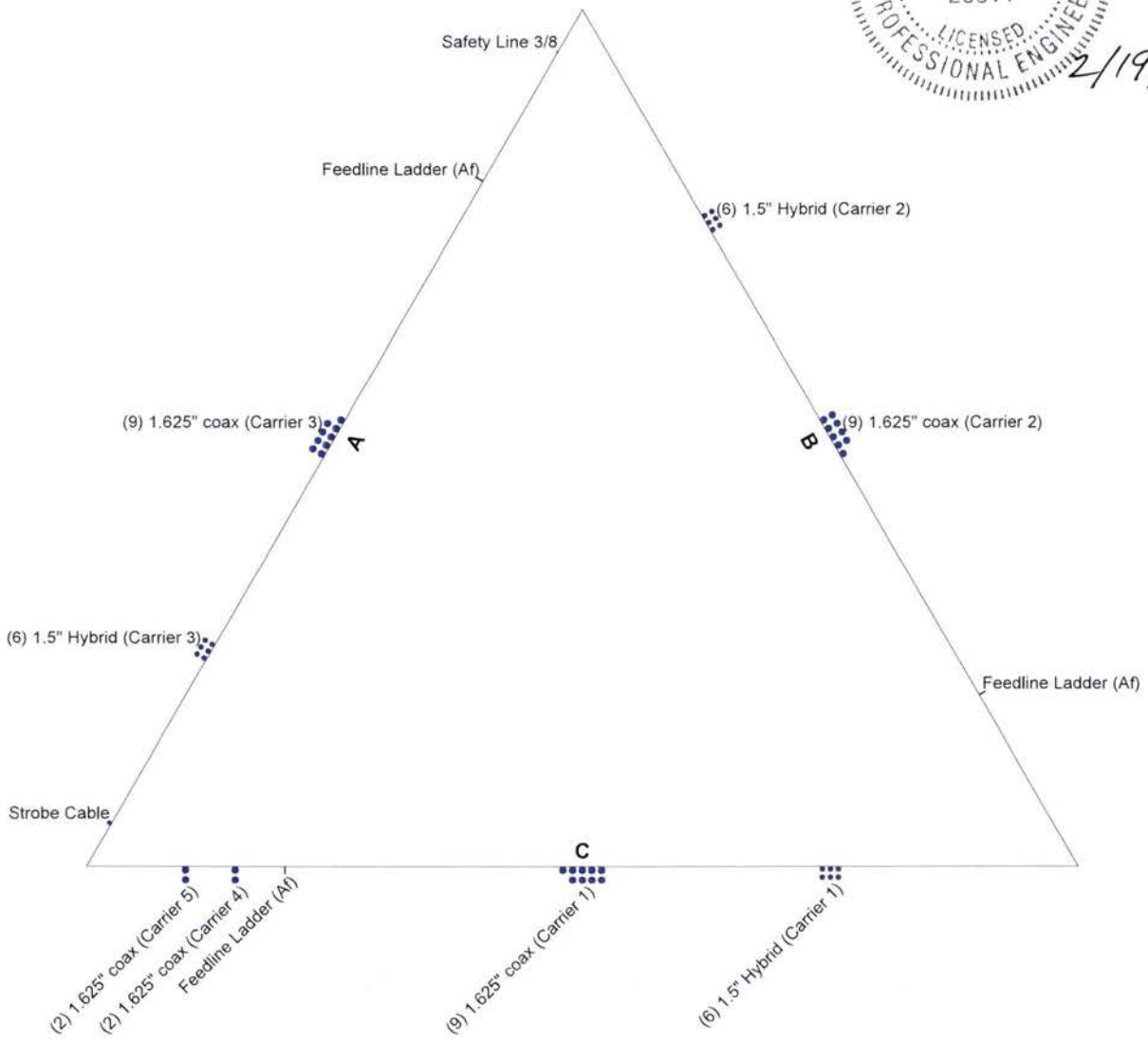
AXIAL 78 K
SHEAR 66 K *MOMENT 10178 kip-ft*
TORQUE 37 kip-ft
REACTIONS - 106 mph WIND

ARCOSA
TELECOM STRUCTURES

B+T Group
1717 S. Boulder Ave, Ste 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265

Job: ATS # 8843 - Sharpsburg (Site# KYLEX2050)			
Project: 255' SST/38.210928, -83.934067			
Client: Harmoni(Uniti) Towers	Drawn by: T. Cheriyan	App'd:	
Code: TIA-222-H	Date: 02/18/21	Scale: NTS	
Path:		Dwg No. E-1	

Feed Line Plan



STATE OF KENTUCKY
BRAD R. MILANOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
2/19/21

ARCOSA
TELECOM STRUCTURES

B+T Group
1717 S. Boulder Ave, Ste 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265

Job: ATS # 8843 - Sharpsburg (Site# KYLEX2050)			
Project: 255' SST/38.210928, -83.934067			
Client: Harmoni(Uniti) Towers	Drawn by: T. Cheriyan	App'd:	
Code: TIA-222-H	Date: 02/18/21	Scale: NTS	
Path:		Dwg No. E-7	

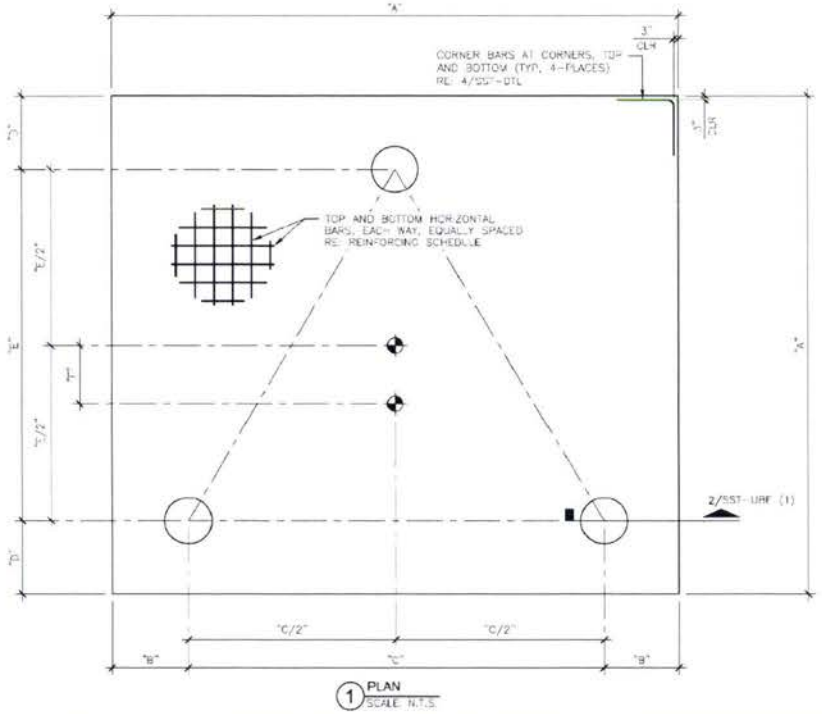
DIMENSIONING SCHEDULE	
A	32'-0"
B	4'-0"
C	24'-0"
D	5'-7-5/16"
E	20'-9-7/16"
F	3'-5-9/16"
J	0'-6"
K	6'-0"
L	2'-3"
MIN. OVERLAP "M"	2'-3"
DIAMETER	3'-6"

REINFORCING SCHEDULE	SIZE	TOTAL QTY
VERTICAL BARS WITH 90° BEND	#7	48
HORIZONTAL TIES	#4	42
HORIZONTAL U-BAR (PEDESTAL)	#4	12
TOP HORIZONTAL BARS	#9	70
BOTTOM HORIZONTAL BARS	#9	70
CORNER BARS	#4	8
VERTICAL U-BARS (PAD)	#4	70

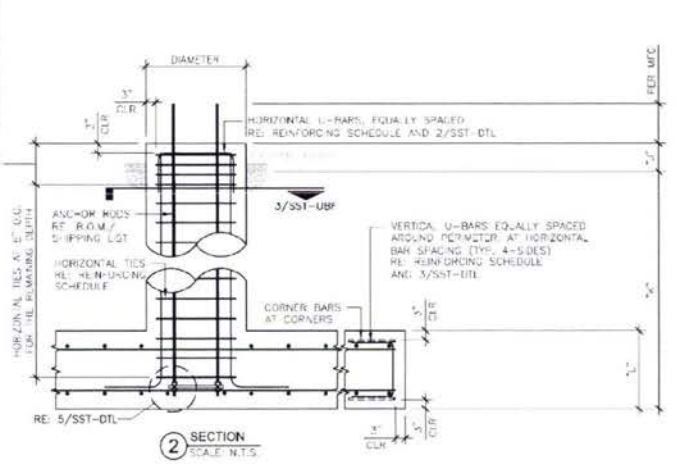
BASE REACTIONS: (FACTORED LOADS)		
GLOBAL REACTIONS		
MOMENT	10178	KIP-FT
AXIAL	78	KIPS
SHEAR	66	KIPS
REACTIONS PER LEG		
COMPRESSION AXIAL	515	KIPS
COMPRESSION SHEAR	39	KIPS
UPLIFT AXIAL	447	KIPS
UPLIFT SHEAR	35	KIPS

NOTES:
1. REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM-615 (GRADE 40) WITH 3" MINIMUM CLEAR COVER.
2. REINFORCEMENT STEEL SHALL BE DETAILED, FABRICATED, BENT, AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND THE ACI 315 (LATEST EDITION).
3. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE GEOTECH REPORT FOR THIS PROJECT AND FOLLOW THE RECOMMENDATIONS IN THAT REPORT WHEN CONSTRUCTING THE FOUNDATION.
   GEOTECHNICAL PROPERTIES BY: DELTA OAKS GROUP
   PROJECT NUMBER: GEO21-08056-08
   DATE: FEBRUARY 4, 2021
4. THIS FOUNDATION HAS BEEN DESIGNED, IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION REFERENCED ABOVE. IF ANYTHING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR TO CONSTRUCTION.
5. CONCRETE VOLUME IN CUBIC YARDS: 89.88.
6. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
7. CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14.
8. ALL CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 318-14. A MINIMUM OF (2) 6"X12" OR (3) 4"X8" CONCRETE CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6"X12" OR (6) 4"X8" CYLINDERS PER BATCH REQUIRED.
9. SLUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C143. THE ALLOWABLE CONCRETE SLUMP SHALL BE 4 INCHES (±1") UNLESS ADMIXTURES ARE USED. ADMIXTURE SHALL BE IN ACCORDANCE WITH ASTM C494 STANDARD TYPES A, B, C, D OR E. THE ENGINEER SHALL PRE-APPROVE SUPER PLASTICIZER USE. DO NOT USE CHLORIDE-CONTAINING ADMIXTURES. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C260.
10. BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM UNIT WEIGHT SPECIFIED IN GEOTECH REPORT. THE SOIL SHALL BE INSTALLED IN 6" TO 8" LIFTS AND COMPACTED THOROUGHLY TO ACHIEVE APPROPRIATE UNIT WEIGHT UNLESS GEOTECH SPECIFIES OTHER COMPACTION REQUIREMENTS.
11. VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.

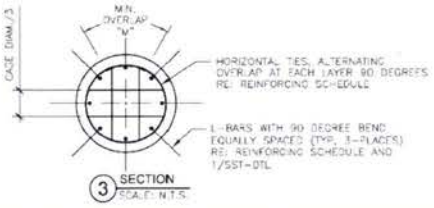
STIPULATION FOR REUSE:
1. THIS DRAWING WAS SPECIFICALLY DESIGNED FOR USE BY THE CUSTOMER ON THIS DRAWING AT THE SPECIFIED LOCATION. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF A PROPERLY LICENSED ENGINEER.



1 PLAN
SCALE: N.T.S.



2 SECTION
SCALE: N.T.S.



3 SECTION
SCALE: N.T.S.

B+T GRP
1717 S BOULDER AVE #300, TULSA, OK 74119
(918) 587-4630

ARCOSA
TELECOM STRUCTURES
4020 TULL AVE, MUSKOGEE, OK 74403

ISSUED FOR:

REV.	DATE	DESCRIPTION
0	02/19/21	ISSUED FOR CONSTRUCTION

COA: 4011
Expires: 12/31/2021

STATE OF OKLAHOMA
BRAD R. MILANOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
2/19/21

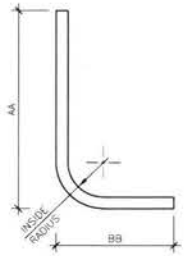
PROJECT INFORMATION:
PROJECT NO: 147974.001
SITE NAME: SHARPSBURG
SITE NO: 8843
CLIENT NAME: ARCOSA TELECOM STRUCTURES
DRAWN BY: TTC
CHECKED BY:

SHEET TITLE:
UNIT BASE FOUNDATION

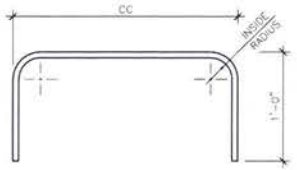
SHEET NUMBER: SST-UBF
REVISION: 0

DIMENSIONING SCHEDULE	
AA*	5'-9-3/4"
BB	1'-1-1/8"
CC*	2'-9-15/16"
DD*	1'-9"
EE	3'-0"

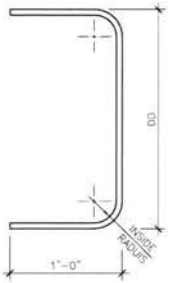
*NOTE: CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO FABRICATION



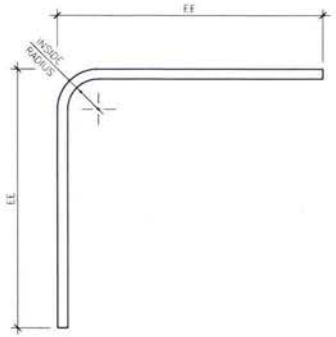
1 L-BAR
SCALE: N.T.S.



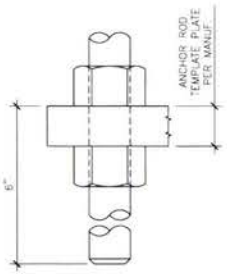
2 HORIZONTAL U-BAR
SCALE: N.T.S.



3 VERTICAL U-BAR
SCALE: N.T.S.



4 CORNER BAR
SCALE: N.T.S.



5 ANCHOR ROD DETAIL
SCALE: N.T.S.

B+T GRP
1717 S BOULDER AVE #300, TULSA, OK 74119
(918) 587-4630

ARCOSA
TELECOM STRUCTURES
4020 TULL AVE, MUSKOGEE, OK 74403

ISSUED FOR:

REV	DATE	DESCRIPTION
0	02/19/21	ISSUED FOR CONSTRUCTION

COA: 4011
Expires: 12/31/2021

COMMONWEALTH OF KENTUCKY
BRAD R. MILANOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
2/19/21

PROJECT INFORMATION:

PROJECT NO: 147974.001
SITE NAME: SHARPSBURG
SITE NO: 8843
CLIENT NAME: ARCOSA TELECOM STRUCTURES

DRAWN BY: TTC
CHECKED BY:

SHEET TITLE:

DIMENSIONING DETAIL

SHEET NUMBER:	REVISION:
SST-DTL	0

SST Unit Base Foundation

Project #:	147974.001
Site Name:	Sharpsburg
Site #:	8843

TIA-222 Revision: H

Top & Bot. Pad Rein. Different?:	☐
Tower Centroid Offset?:	☑
Block Foundation?:	☐
Rectangular Pad?:	☐

Superstructure Analysis Reactions		
Global Moment, **M**:	10178.35	ft-kips
Global Axial, **P**:	77.57	kips
Global Shear, **V**:	65.93	kips
Leg Compression, P_{comp}:	515.08	kips
Leg Comp. Shear, V_{u_comp}:	38.74	kips
Leg Uplift, P_{uplift}:	446.5	kips
Leg Uplift. Shear, V_{u_uplift}:	35.46	kips
Tower Height, **H**:	255	ft
Base Face Width, **BW**:	24	ft
BP Dist. Above Fdn, bp_{dist}:	3	in

Foundation Analysis Checks				
	Capacity	**Demand**	**Rating**	**Check**
Lateral (Sliding) (kips)	393.80	65.93	**16.7%**	**Pass**
Bearing Pressure (ksf)	7.81	5.05	**64.7%**	**Pass**
*Overturning (kip*ft)*	11476.57	10882.28	**94.8%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	1230.40	164.65	**13.4%**	**Pass**
*Pier Flexure (Tension) (kip*ft)*	185.57	150.71	**81.2%**	**Pass**
Pier Compression (kip)	6123.66	522.44	**8.5%**	**Pass**
*Pad Flexure (kip*ft)*	3386.84	2621.43	**77.4%**	**Pass**
Pad Shear - 1-way (kips)	812.67	455.25	**56.0%**	**Pass**
Pad Shear - Comp 2-way (ksi)	0.190	0.118	**62.2%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	1676.79	98.79	**5.9%**	**Pass**
Pad Shear - Tension 2-way (ksi)	0.190	0.119	**62.5%**	**Pass**
*Flexural 2-way (Tension) (kip*ft)*	1676.79	90.42	**5.4%**	**Pass**

Soil Rating:	**94.8%**
Structural Rating:	**81.2%**

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, **dpier**:	3.5	ft
Ext. Above Grade, **E**:	0.50	ft
Pier Rebar Size, **Sc**:	7	
Pier Rebar Quantity, **mc**:	16	
Pier Tie/Spiral Size, **St**:	4	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties		
Depth, **D**:	6.00	ft
Pad Width, W_1:	32.00	ft
Pad Thickness, **T**:	2.25	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	9	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	35	
Pad Clear Cover, cc_{pad}:	3	in

Material Properties		
Rebar Grade, **Fy**:	60	ksi
Concrete Compressive Strength, **F'c**:	4	ksi
Dry Concrete Density, **δc**:	150	pcf

Soil Properties		
Total Soil Unit Weight, **γ**:	110	pcf
Ultimate Net Bearing, Qnet:	9.750	ksf
Cohesion, **Cu**:	1.500	ksf
Friction Angle, **ϕ**:		degrees
SPT Blow Count, N_{blows}:		
Base Friction, **μ**:	0.3	
Neglected Depth, **N**:	2.5	ft
Foundation Bearing on Rock?	No	
Groundwater Depth, **gw**:	N/A	ft

tnxTower	Job	Page
	ATS # 8843 - Sharpsburg (Site# KYLEX2050)	1 of 33
B+T Group 1717 S. Boulder Ave, Ste 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Project 255' SST/38.210928, -83.934067	Date 13:35:10 02/18/21
	Client Harmoni(Uniti) Towers	Designed by T. Cheriyan

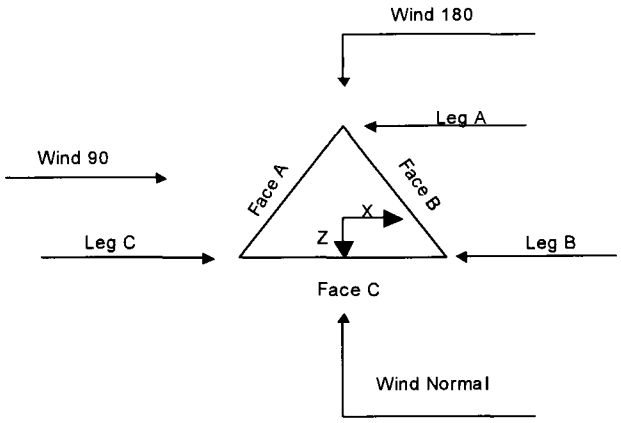
Tower Input Data

The main tower is a 3x free standing tower with an overall height of 255.000 ft above the ground line.
The base of the tower is set at an elevation of 0.000 ft above the ground line.
The face width of the tower is 4.875 ft at the top and 24.000 ft at the base.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower is located in Bath County, Kentucky.
Tower base elevation above sea level: 993.000 ft.
Basic wind speed of 106 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.500 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 30 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity..
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in tower member design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

Consider Moments - Legs	Distribute Leg Loads As Uniform	Use ASCE 10 X-Brace Ly Rules
Consider Moments - Horizontals	Assume Legs Pinned	√ Calculate Redundant Bracing Forces
Consider Moments - Diagonals	√ Assume Rigid Index Plate	Ignore Redundant Members in FEA
Use Moment Magnification	√ Use Clear Spans For Wind Area	√ SR Leg Bolts Resist Compression
√ Use Code Stress Ratios	√ Use Clear Spans For KL/r	All Leg Panels Have Same Allowable
√ Use Code Safety Factors - Guys	Retension Guys To Initial Tension	Offset Girt At Foundation
Escalate Ice	√ Bypass Mast Stability Checks	√ Consider Feed Line Torque
Always Use Max Kz	√ Use Azimuth Dish Coefficients	√ Include Angle Block Shear Check
Use Special Wind Profile	√ Project Wind Area of Appurt.	Use TIA-222-H Bracing Resist. Exemption
√ Include Bolts In Member Capacity	Autocalc Torque Arm Areas	Use TIA-222-H Tension Splice Exemption
√ Leg Bolts Are At Top Of Section	Add IBC .6D+W Combination	Poles
√ Secondary Horizontal Braces Leg	√ Sort Capacity Reports By Component	Include Shear-Torsion Interaction
Use Diamond Inner Bracing (4 Sided)	Triangulate Diamond Inner Bracing	Always Use Sub-Critical Flow
SR Members Have Cut Ends	Treat Feed Line Bundles As Cylinder	Use Top Mounted Sockets
SR Members Are Concentric	Ignore KL/ry For 60 Deg. Angle Legs	Pole Without Linear Attachments
		Pole With Shroud Or No Appurtenances
		Outside and Inside Corner Radii Are Known



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	255.000-240.000			4.875	1	15.000
T2	240.000-220.000			6.000	1	20.000
T3	220.000-200.000			7.500	1	20.000
T4	200.000-180.000			9.000	1	20.000
T5	180.000-160.000			10.500	1	20.000
T6	160.000-140.000			12.000	1	20.000
T7	140.000-120.000			13.500	1	20.000
T8	120.000-100.000			15.000	1	20.000
T9	100.000-80.000			16.500	1	20.000
T10	80.000-60.000			18.000	1	20.000
T11	60.000-40.000			19.500	1	20.000
T12	40.000-20.000			21.000	1	20.000
T13	20.000-0.000			22.500	1	20.000

Tower Section Geometry *(cont'd)*

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	255.000-240.000	4.667	X Brace	No	No	6.000	6.000
T2	240.000-220.000	4.750	X Brace	No	No	6.000	6.000

Tower Section	Tower Elevation ft	Diagonal Spacing ft	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset in	Bottom Girt Offset in
T3	220.000-200.000	4.750	X Brace	No	No	6.000	6.000
T4	200.000-180.000	4.750	X Brace	No	No	6.000	6.000
T5	180.000-160.000	4.750	X Brace	No	No	6.000	6.000
T6	160.000-140.000	4.750	X Brace	No	No	6.000	6.000
T7	140.000-120.000	4.750	X Brace	No	No	6.000	6.000
T8	120.000-100.000	4.750	X Brace	No	No	6.000	6.000
T9	100.000-80.000	4.750	X Brace	No	No	6.000	6.000
T10	80.000-60.000	4.750	Double K	No	Yes	6.000	6.000
T11	60.000-40.000	4.750	Double K	No	Yes	6.000	6.000
T12	40.000-20.000	4.750	Double K	No	Yes	6.000	6.000
T13	20.000-0.000	4.750	Double K	No	Yes	6.000	6.000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 255.000-240.000	Solid Round	1 3/4	A529-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T2 240.000-220.000	Solid Round	2	A529-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T3 220.000-200.000	Solid Round	2 1/2	A529-50 (50 ksi)	Equal Angle	L2x2x3/16	A36M-50 (50 ksi)
T4 200.000-180.000	Solid Round	2 3/4	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36M-50 (50 ksi)
T5 180.000-160.000	Solid Round	3	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36M-50 (50 ksi)
T6 160.000-140.000	Solid Round	3 1/4	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36M-50 (50 ksi)
T7 140.000-120.000	Solid Round	3 1/2	A529-50 (50 ksi)	Equal Angle	L3x3x3/16	A36M-50 (50 ksi)
T8 120.000-100.000	Solid Round	3 1/2	A529-50 (50 ksi)	Equal Angle	L3x3x3/16	A36M-50 (50 ksi)
T9 100.000-80.000	Solid Round	3 3/4	A529-50 (50 ksi)	Equal Angle	L3x3x1/4	A36M-50 (50 ksi)
T10 80.000-60.000	Solid Round	4	A529-50 (50 ksi)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)
T11 60.000-40.000	Solid Round	4	A529-50 (50 ksi)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)
T12 40.000-20.000	Solid Round	4 1/4	A529-50 (50 ksi)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)
T13 20.000-0.000	Solid Round	4 1/4	A529-50 (50 ksi)	Double Angle	2L3x3x3/16x3/8	A36M-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 255.000-240.000	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)	Solid Round		A529-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T10 80.000-60.000	None	Flat Bar		A36 (36 ksi)	Double Angle	2L1 3/4x1 3/4x3/16x3/8	A36M-50 (50 ksi)
T11 60.000-40.000	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2x2x3/16x3/8	A36M-50 (50 ksi)
T12 40.000-20.000	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2x2x3/16x3/8	A36M-50 (50 ksi)
T13 20.000-0.000	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T10 80.000-60.000	Solid Round		A572-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T11 60.000-40.000	Solid Round		A572-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T12 40.000-20.000	Solid Round		A572-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T13 20.000-0.000	Solid Round		A572-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Gusset Area (per face) ft^2	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1 255.000-240.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T2 240.000-220.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T3 220.000-200.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T4 200.000-180.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000

Tower Elevation ft	Gusset Area (per face) ft²	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T5 180.000-160.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T6 160.000-140.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T7 140.000-120.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T8 120.000-100.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T9 100.000-80.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36.000	36.000
T10 80.000-60.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	Mid-Pt	Mid-Pt	36.000
T11 60.000-40.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	Mid-Pt	Mid-Pt	36.000
T12 40.000-20.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	Mid-Pt	Mid-Pt	36.000
T13 20.000-0.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	Mid-Pt	Mid-Pt	36.000

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T1 255.000-240.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T2 240.000-220.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T3 220.000-200.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T4 200.000-180.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T5 180.000-160.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T6 160.000-140.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T7 140.000-120.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T8 120.000-100.0	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
00										
T9	No	No	1	1	1	1	1	1	1	1
100.000-80.00				1	1	1	1	1	1	1
0										
T10	No	No	1	1	1	1	1	1	1	1
80.000-60.000				1	1	1	1	1	1	1
T11	No	No	1	1	1	1	1	1	1	1
60.000-40.000				1	1	1	1	1	1	1
T12	No	No	1	1	1	1	1	1	1	1
40.000-20.000				1	1	1	1	1	1	1
T13	No	No	1	1	1	1	1	1	1	1
20.000-0.000				1	1	1	1	1	1	1

[1]*Note: K factors are applied to member segment lengths. K-braces without inner supporting members will have the K factor in the out-of-plane direction applied to the overall length.*

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Net Width Deduct in	Leg U	Diagonal Net Width Deduct in	Diagonal U	Top Girt Net Width Deduct in	Top Girt U	Bottom Girt Net Width Deduct in	Bottom Girt U	Mid Girt Net Width Deduct in	Mid Girt U	Long Horizontal Net Width Deduct in	Long Horizontal U	Short Horizontal Net Width Deduct in	Short Horizontal U
T1	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
255.000-240.0														
00														
T2	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
240.000-220.0														
00														
T3	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
220.000-200.0														
00														
T4	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
200.000-180.0														
00														
T5	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
180.000-160.0														
00														
T6	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
160.000-140.0														
00														
T7	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
140.000-120.0														
00														
T8	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
120.000-100.0														
00														
T9	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
100.000-80.00														
0														
T10	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
80.000-60.000														

Tower Elevation ft	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T11 60.000-40.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T12 40.000-20.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T13 20.000-0.000	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 255.000-240.000	Flange	0.000 A325N	0	0.625 A325X	1	0.625 A325X	1	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T2 240.000-220.000	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T3 220.000-200.000	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T4 200.000-180.000	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T5 180.000-160.000	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T6 160.000-140.000	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T7 140.000-120.000	Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T8 120.000-100.000	Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T9 100.000-80.000	Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T10 80.000-60.000	Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.625 A325X	1	0.625 A325N	0
T11 60.000-40.000	Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.625 A325X	1	0.625 A325N	0
T12 40.000-20.000	Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.625 A325X	1	0.625 A325N	0
T13 20.000-0.000	Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.625 A325X	1	0.625 A325N	0

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
1.625" coax (Carrier 1)	C	No	No	Ar (CaAa)	250.000 - 10.000	0.000	0	9	5	0.750	1.980		0.001
1.5" Hybrid (Carrier 1) **	C	No	No	Ar (CaAa)	250.000 - 10.000	0.000	-0.25	6	3	0.750	1.500		0.001
1.625" coax (Carrier 2)	B	No	No	Ar (CaAa)	238.000 - 10.000	0.000	0	9	5	0.750	1.980		0.001
1.5" Hybrid (Carrier 2) **	B	No	No	Ar (CaAa)	238.000 - 10.000	0.000	-0.25	6	3	0.750	1.500		0.001
1.625" coax (Carrier 3)	A	No	No	Ar (CaAa)	226.000 - 10.000	0.000	0	9	5	0.750	1.980		0.001
1.5" Hybrid (Carrier 3) **	A	No	No	Ar (CaAa)	226.000 - 10.000	0.000	-0.25	6	3	0.750	1.500		0.001
1.625" coax (Carrier 4) **	C	No	No	Ar (CaAa)	214.000 - 10.000	0.000	0.35	2	1	0.750	1.980		0.001
1.625" coax (Carrier 5) **	C	No	No	Ar (CaAa)	202.000 - 10.000	0.000	0.4	2	1	0.750	1.980		0.001
Safety Line 3/8	A	No	No	Ar (CaAa)	255.000 - 10.000	0.000	0.45	1	1	0.375	0.375		0.000
Strobe Cable **	A	No	No	Ar (CaAa)	255.000 - 10.000	0.000	-0.45	1	1	1.250	1.250		0.001
Feedline Ladder (Af)	C	No	No	Af (CaAa)	250.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008
Feedline Ladder (Af)	B	No	No	Af (CaAa)	238.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008
Feedline Ladder (Af) **	A	No	No	Af (CaAa)	226.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C_AA_A ft^2/ft	Weight klf
**								

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	255.000-240.000	A	0.000	0.000	2.438	0.000	0.014
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	27.237	0.000	0.205
T2	240.000-220.000	A	0.000	0.000	19.592	0.000	0.142
		B	0.000	0.000	49.026	0.000	0.369
		C	0.000	0.000	54.473	0.000	0.410
T3	220.000-200.000	A	0.000	0.000	57.723	0.000	0.429
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	60.809	0.000	0.433
T4	200.000-180.000	A	0.000	0.000	57.723	0.000	0.429
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T5	180.000-160.000	A	0.000	0.000	57.723	0.000	0.429
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T6	160.000-140.000	A	0.000	0.000	57.723	0.000	0.429
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T7	140.000-120.000	A	0.000	0.000	57.723	0.000	0.429
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T8	120.000-100.000	A	0.000	0.000	57.723	0.000	0.429
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T9	100.000-80.000	A	0.000	0.000	57.723	0.000	0.429
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T10	80.000-60.000	A	0.000	0.000	57.723	0.000	0.429
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T11	60.000-40.000	A	0.000	0.000	57.723	0.000	0.429
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T12	40.000-20.000	A	0.000	0.000	57.723	0.000	0.429
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T13	20.000-0.000	A	0.000	0.000	28.862	0.000	0.214
		B	0.000	0.000	27.237	0.000	0.205
		C	0.000	0.000	35.157	0.000	0.234

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	255.000-240.000	A	1.835	0.000	0.000	13.447	0.000	0.192
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	42.532	0.000	0.872
T2	240.000-220.000	A	1.821	0.000	0.000	43.269	0.000	0.773
		B		0.000	0.000	76.343	0.000	1.561
		C		0.000	0.000	84.826	0.000	1.735
T3	220.000-200.000	A	1.805	0.000	0.000	102.223	0.000	1.972
		B		0.000	0.000	84.533	0.000	1.723
		C		0.000	0.000	104.580	0.000	2.013
T4	200.000-180.000	A	1.787	0.000	0.000	101.761	0.000	1.956
		B		0.000	0.000	84.215	0.000	1.710
		C		0.000	0.000	134.082	0.000	2.426
T5	180.000-160.000	A	1.767	0.000	0.000	101.252	0.000	1.938

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft²	A_F ft²	C_AA_A In Face ft²	C_AA_A Out Face ft²	Weight K
		B		0.000	0.000	83.865	0.000	1.696
		C		0.000	0.000	133.458	0.000	2.401
T6	160.000-140.000	A	1.745	0.000	0.000	100.687	0.000	1.918
		B		0.000	0.000	83.475	0.000	1.681
		C		0.000	0.000	132.763	0.000	2.374
T7	140.000-120.000	A	1.720	0.000	0.000	100.049	0.000	1.895
		B		0.000	0.000	83.036	0.000	1.664
		C		0.000	0.000	131.980	0.000	2.344
T8	120.000-100.000	A	1.692	0.000	0.000	99.316	0.000	1.869
		B		0.000	0.000	82.531	0.000	1.644
		C		0.000	0.000	131.080	0.000	2.309
T9	100.000-80.000	A	1.658	0.000	0.000	98.452	0.000	1.839
		B		0.000	0.000	81.936	0.000	1.621
		C		0.000	0.000	130.019	0.000	2.268
T10	80.000-60.000	A	1.617	0.000	0.000	97.395	0.000	1.803
		B		0.000	0.000	81.207	0.000	1.592
		C		0.000	0.000	128.721	0.000	2.219
T11	60.000-40.000	A	1.564	0.000	0.000	96.020	0.000	1.756
		B		0.000	0.000	80.261	0.000	1.556
		C		0.000	0.000	127.033	0.000	2.155
T12	40.000-20.000	A	1.486	0.000	0.000	94.020	0.000	1.689
		B		0.000	0.000	78.884	0.000	1.504
		C		0.000	0.000	124.579	0.000	2.065
T13	20.000-0.000	A	1.331	0.000	0.000	45.026	0.000	0.781
		B		0.000	0.000	38.076	0.000	0.702
		C		0.000	0.000	59.857	0.000	0.946

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T1	255.000-240.000	0.856	4.712	-0.907	3.502
T2	240.000-220.000	2.937	-1.564	1.665	-0.522
T3	220.000-200.000	-0.798	-2.030	-2.227	-0.743
T4	200.000-180.000	-1.976	-0.496	-4.177	1.423
T5	180.000-160.000	-2.151	-0.538	-4.572	1.547
T6	160.000-140.000	-2.305	-0.575	-4.922	1.658
T7	140.000-120.000	-2.274	-0.572	-5.057	1.707
T8	120.000-100.000	-2.393	-0.602	-5.320	1.793
T9	100.000-80.000	-2.488	-0.626	-5.536	1.865
T10	80.000-60.000	-3.197	-0.786	-6.566	2.178
T11	60.000-40.000	-3.303	-0.814	-6.761	2.245
T12	40.000-20.000	-3.418	-0.843	-6.910	2.298
T13	20.000-0.000	-1.956	-0.501	-4.075	1.403

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	1	1.625" coax	240.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	2	1.5" Hybrid	250.00 240.00 -	0.6000	0.6000
T1	14	Safety Line 3/8	250.00 240.00 -	0.6000	0.6000
T1	15	Strobe Cable	255.00 240.00 -	0.6000	0.6000
T1	17	Feedline Ladder (Af)	255.00 240.00 -	0.6000	0.6000
T2	1	1.625" coax	250.00 220.00 -	0.6000	0.6000
T2	2	1.5" Hybrid	240.00 220.00 -	0.6000	0.6000
T2	4	1.625" coax	240.00 220.00 -	0.6000	0.6000
T2	5	1.5" Hybrid	238.00 220.00 -	0.6000	0.6000
T2	7	1.625" coax	238.00 220.00 -	0.6000	0.6000
T2	8	1.5" Hybrid	226.00 220.00 -	0.6000	0.6000
T2	14	Safety Line 3/8	226.00 220.00 -	0.6000	0.6000
T2	15	Strobe Cable	240.00 220.00 -	0.6000	0.6000
T2	17	Feedline Ladder (Af)	240.00 220.00 -	0.6000	0.6000
T2	18	Feedline Ladder (Af)	240.00 220.00 -	0.6000	0.6000
T2	19	Feedline Ladder (Af)	238.00 220.00 -	0.6000	0.6000
T3	1	1.625" coax	226.00 200.00 -	0.6000	0.6000
T3	2	1.5" Hybrid	220.00 200.00 -	0.6000	0.6000
T3	4	1.625" coax	220.00 200.00 -	0.6000	0.6000
T3	5	1.5" Hybrid	220.00 200.00 -	0.6000	0.6000
T3	7	1.625" coax	220.00 200.00 -	0.6000	0.6000
T3	8	1.5" Hybrid	220.00 200.00 -	0.6000	0.6000
T3	10	1.625" coax	220.00 200.00 -	0.6000	0.6000
T3	12	1.625" coax	214.00 200.00 -	0.6000	0.6000
T3	14	Safety Line 3/8	202.00 200.00 -	0.6000	0.6000
T3	15	Strobe Cable	220.00 200.00 -	0.6000	0.6000
T3	17	Feedline Ladder (Af)	220.00 200.00 -	0.6000	0.6000
T3	18	Feedline Ladder (Af)	220.00 200.00 -	0.6000	0.6000
T3	19	Feedline Ladder (Af)	220.00 200.00 -	0.6000	0.6000
T4	1	1.625" coax	220.00 180.00 -	0.6000	0.6000
T4	2	1.5" Hybrid	200.00 180.00 -	0.6000	0.6000
T4	4	1.625" coax	200.00 180.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			200.00		
T4	5	1.5" Hybrid	180.00 - 200.00	0.6000	0.6000
T4	7	1.625" coax	180.00 - 200.00	0.6000	0.6000
T4	8	1.5" Hybrid	180.00 - 200.00	0.6000	0.6000
T4	10	1.625" coax	180.00 - 200.00	0.6000	0.6000
T4	12	1.625" coax	180.00 - 200.00	0.6000	0.6000
T4	14	Safety Line 3/8	180.00 - 200.00	0.6000	0.6000
T4	15	Strobe Cable	180.00 - 200.00	0.6000	0.6000
T4	17	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.6000
T4	18	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.6000
T4	19	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.6000
T5	1	1.625" coax	160.00 - 180.00	0.6000	0.6000
T5	2	1.5" Hybrid	160.00 - 180.00	0.6000	0.6000
T5	4	1.625" coax	160.00 - 180.00	0.6000	0.6000
T5	5	1.5" Hybrid	160.00 - 180.00	0.6000	0.6000
T5	7	1.625" coax	160.00 - 180.00	0.6000	0.6000
T5	8	1.5" Hybrid	160.00 - 180.00	0.6000	0.6000
T5	10	1.625" coax	160.00 - 180.00	0.6000	0.6000
T5	12	1.625" coax	160.00 - 180.00	0.6000	0.6000
T5	14	Safety Line 3/8	160.00 - 180.00	0.6000	0.6000
T5	15	Strobe Cable	160.00 - 180.00	0.6000	0.6000
T5	17	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T5	18	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T5	19	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T6	1	1.625" coax	140.00 - 160.00	0.6000	0.6000
T6	2	1.5" Hybrid	140.00 - 160.00	0.6000	0.6000
T6	4	1.625" coax	140.00 - 160.00	0.6000	0.6000
T6	5	1.5" Hybrid	140.00 - 160.00	0.6000	0.6000
T6	7	1.625" coax	140.00 - 160.00	0.6000	0.6000
T6	8	1.5" Hybrid	140.00 - 160.00	0.6000	0.6000
T6	10	1.625" coax	140.00 - 160.00	0.6000	0.6000
T6	12	1.625" coax	140.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T6	14	Safety Line 3/8	140.00 - 160.00	0.6000	0.6000
T6	15	Strobe Cable	140.00 - 160.00	0.6000	0.6000
T6	17	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T6	18	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T6	19	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T7	1	1.625" coax	120.00 - 140.00	0.6000	0.6000
T7	2	1.5" Hybrid	120.00 - 140.00	0.6000	0.6000
T7	4	1.625" coax	120.00 - 140.00	0.6000	0.6000
T7	5	1.5" Hybrid	120.00 - 140.00	0.6000	0.6000
T7	7	1.625" coax	120.00 - 140.00	0.6000	0.6000
T7	8	1.5" Hybrid	120.00 - 140.00	0.6000	0.6000
T7	10	1.625" coax	120.00 - 140.00	0.6000	0.6000
T7	12	1.625" coax	120.00 - 140.00	0.6000	0.6000
T7	14	Safety Line 3/8	120.00 - 140.00	0.6000	0.6000
T7	15	Strobe Cable	120.00 - 140.00	0.6000	0.6000
T7	17	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T7	18	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T7	19	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T8	1	1.625" coax	100.00 - 120.00	0.6000	0.6000
T8	2	1.5" Hybrid	100.00 - 120.00	0.6000	0.6000
T8	4	1.625" coax	100.00 - 120.00	0.6000	0.6000
T8	5	1.5" Hybrid	100.00 - 120.00	0.6000	0.6000
T8	7	1.625" coax	100.00 - 120.00	0.6000	0.6000
T8	8	1.5" Hybrid	100.00 - 120.00	0.6000	0.6000
T8	10	1.625" coax	100.00 - 120.00	0.6000	0.6000
T8	12	1.625" coax	100.00 - 120.00	0.6000	0.6000
T8	14	Safety Line 3/8	100.00 - 120.00	0.6000	0.6000
T8	15	Strobe Cable	100.00 - 120.00	0.6000	0.6000
T8	17	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T8	18	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T8	19	Feedline Ladder (Af)	100.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			120.00		
T9	1	1.625" coax	80.00 - 100.00	0.6000	0.6000
T9	2	1.5" Hybrid	80.00 - 100.00	0.6000	0.6000
T9	4	1.625" coax	80.00 - 100.00	0.6000	0.6000
T9	5	1.5" Hybrid	80.00 - 100.00	0.6000	0.6000
T9	7	1.625" coax	80.00 - 100.00	0.6000	0.6000
T9	8	1.5" Hybrid	80.00 - 100.00	0.6000	0.6000
T9	10	1.625" coax	80.00 - 100.00	0.6000	0.6000
T9	12	1.625" coax	80.00 - 100.00	0.6000	0.6000
T9	14	Safety Line 3/8	80.00 - 100.00	0.6000	0.6000
T9	15	Strobe Cable	80.00 - 100.00	0.6000	0.6000
T9	17	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T9	18	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T9	19	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T10	1	1.625" coax	60.00 - 80.00	0.6000	0.6000
T10	2	1.5" Hybrid	60.00 - 80.00	0.6000	0.6000
T10	4	1.625" coax	60.00 - 80.00	0.6000	0.6000
T10	5	1.5" Hybrid	60.00 - 80.00	0.6000	0.6000
T10	7	1.625" coax	60.00 - 80.00	0.6000	0.6000
T10	8	1.5" Hybrid	60.00 - 80.00	0.6000	0.6000
T10	10	1.625" coax	60.00 - 80.00	0.6000	0.6000
T10	12	1.625" coax	60.00 - 80.00	0.6000	0.6000
T10	14	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T10	15	Strobe Cable	60.00 - 80.00	0.6000	0.6000
T10	17	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T10	18	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T10	19	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T11	1	1.625" coax	40.00 - 60.00	0.6000	0.6000
T11	2	1.5" Hybrid	40.00 - 60.00	0.6000	0.6000
T11	4	1.625" coax	40.00 - 60.00	0.6000	0.6000
T11	5	1.5" Hybrid	40.00 - 60.00	0.6000	0.6000
T11	7	1.625" coax	40.00 - 60.00	0.6000	0.6000
T11	8	1.5" Hybrid	40.00 - 60.00	0.6000	0.6000
T11	10	1.625" coax	40.00 - 60.00	0.6000	0.6000
T11	12	1.625" coax	40.00 - 60.00	0.6000	0.6000
T11	14	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T11	15	Strobe Cable	40.00 - 60.00	0.6000	0.6000
T11	17	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T11	18	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T11	19	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T12	1	1.625" coax	20.00 - 40.00	0.6000	0.6000
T12	2	1.5" Hybrid	20.00 - 40.00	0.6000	0.6000
T12	4	1.625" coax	20.00 - 40.00	0.6000	0.6000
T12	5	1.5" Hybrid	20.00 - 40.00	0.6000	0.6000
T12	7	1.625" coax	20.00 - 40.00	0.6000	0.6000
T12	8	1.5" Hybrid	20.00 - 40.00	0.6000	0.6000
T12	10	1.625" coax	20.00 - 40.00	0.6000	0.6000
T12	12	1.625" coax	20.00 - 40.00	0.6000	0.6000
T12	14	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T12	15	Strobe Cable	20.00 - 40.00	0.6000	0.6000
T12	17	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T12	18	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T12	19	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T13	1	1.625" coax	10.00 - 20.00	0.6000	0.6000
T13	2	1.5" Hybrid	10.00 - 20.00	0.6000	0.6000
T13	4	1.625" coax	10.00 - 20.00	0.6000	0.6000
T13	5	1.5" Hybrid	10.00 - 20.00	0.6000	0.6000
T13	7	1.625" coax	10.00 - 20.00	0.6000	0.6000
T13	8	1.5" Hybrid	10.00 - 20.00	0.6000	0.6000
T13	10	1.625" coax	10.00 - 20.00	0.6000	0.6000
T13	12	1.625" coax	10.00 - 20.00	0.6000	0.6000
T13	14	Safety Line 3/8	10.00 - 20.00	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T13	15	Strobe Cable	10.00 - 20.00	0.6000	0.6000
T13	17	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T13	18	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T13	19	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Lightning Rod 1"x10'	C	From Leg	0.000 0.000 5.000	0.000	255.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.000 2.017 3.050 5.148	1.000 2.017 3.050 5.148	0.040 0.049 0.065 0.116
Top Beacon	B	From Leg	0.000 0.000 1.000	0.000	255.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.700 3.100 3.500 4.300	2.700 3.100 3.500 4.300	0.050 0.070 0.090 0.130
**									
Sector1(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	A	From Leg	4.000 0.000 0.000	0.000	250.000	No Ice 1/2" Ice 1" Ice 2" Ice	92.600 115.750 138.900 185.200	62.040 77.550 93.060 124.080	0.700 1.400 2.100 3.500
Sector2(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	B	From Leg	4.000 0.000 0.000	0.000	250.000	No Ice 1/2" Ice 1" Ice 2" Ice	92.600 115.750 138.900 185.200	62.040 77.550 93.060 124.080	0.700 1.400 2.100 3.500
Sector3(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	C	From Leg	4.000 0.000 0.000	0.000	250.000	No Ice 1/2" Ice 1" Ice 2" Ice	92.600 115.750 138.900 185.200	62.040 77.550 93.060 124.080	0.700 1.400 2.100 3.500
**									
Sector1(CaAa=10000 Sq.in)No Ice (Carrier 2)	A	From Leg	4.000 0.000 0.000	0.000	238.000	No Ice 1/2" Ice 1" Ice 2" Ice	69.440 86.800 104.160 138.880	46.525 58.156 69.787 93.050	0.700 1.400 2.100 3.500
Sector2(CaAa=10000 Sq.in)No Ice (Carrier 2)	B	From Leg	4.000 0.000 0.000	0.000	238.000	No Ice 1/2" Ice 1" Ice 2" Ice	69.440 86.800 104.160 138.880	46.525 58.156 69.787 93.050	0.700 1.400 2.100 3.500
Sector3(CaAa=10000 Sq.in)No Ice (Carrier 2)	C	From Leg	4.000 0.000 0.000	0.000	238.000	No Ice 1/2" Ice 1" Ice 2" Ice	69.440 86.800 104.160 138.880	46.525 58.156 69.787 93.050	0.700 1.400 2.100 3.500
**									
Sector1(CaAa=10000 Sq.in)No Ice (Carrier 3)	A	From Leg	4.000 0.000 0.000	0.000	226.000	No Ice 1/2" Ice 1" Ice 2" Ice	69.440 86.800 104.160 138.880	46.525 58.156 69.787 93.050	0.700 1.400 2.100 3.500
Sector2(CaAa=10000 Sq.in)No Ice	B	From Leg	4.000 0.000	0.000	226.000	No Ice 1/2" Ice	69.440 86.800	46.525 58.156	0.700 1.400

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
(Carrier 3)			0.000			1" Ice	104.160	69.787	2.100
						2" Ice	138.880	93.050	3.500
Sector3(CaAa=10000 Sq.in)No Ice	C	From Leg	4.000	0.000	226.000	No Ice	69.440	46.525	0.700
			0.000			1/2" Ice	86.800	58.156	1.400
(Carrier 3)			0.000			1" Ice	104.160	69.787	2.100
						2" Ice	138.880	93.050	3.500
**									
4 1/2" OD Dish Mount (Carrier 4)	C	From Leg	0.500	0.000	214.000	No Ice	1.615	1.615	0.057
			0.000			1/2" Ice	2.207	2.207	0.074
			0.000			1" Ice	2.543	2.543	0.094
						2" Ice	3.241	3.241	0.148
4 1/2" OD Dish Mount (Carrier 4)	B	From Leg	0.500	0.000	214.000	No Ice	1.615	1.615	0.057
			0.000			1/2" Ice	2.207	2.207	0.074
			0.000			1" Ice	2.543	2.543	0.094
						2" Ice	3.241	3.241	0.148
**									
4 1/2" OD Dish Mount (Carrier 5)	C	From Leg	0.500	0.000	202.000	No Ice	1.615	1.615	0.057
			0.000			1/2" Ice	2.207	2.207	0.074
			0.000			1" Ice	2.543	2.543	0.094
						2" Ice	3.241	3.241	0.148
4 1/2" OD Dish Mount (Carrier 5)	B	From Leg	0.500	0.000	202.000	No Ice	1.615	1.615	0.057
			0.000			1/2" Ice	2.207	2.207	0.074
			0.000			1" Ice	2.543	2.543	0.094
						2" Ice	3.241	3.241	0.148
**									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft^2	Weight K
6' MW Dish (Carrier 4)	C	Paraboloid w/o Radome	From Leg	1.000	0.000		214.000	6.000	No Ice	28.270	0.140
				0.000					1/2" Ice	29.050	0.290
				0.000					1" Ice	29.830	0.440
									2" Ice	31.390	0.740
6' MW Dish (Carrier 4)	B	Paraboloid w/o Radome	From Leg	1.000	0.000		214.000	6.000	No Ice	28.270	0.140
				0.000					1/2" Ice	29.050	0.290
				0.000					1" Ice	29.830	0.440
									2" Ice	31.390	0.740
**											
6' MW Dish (Carrier 5)	C	Paraboloid w/o Radome	From Leg	1.000	0.000		202.000	6.000	No Ice	28.270	0.140
				0.000					1/2" Ice	29.050	0.290
				0.000					1" Ice	29.830	0.440
									2" Ice	31.390	0.740
6' MW Dish (Carrier 5)	B	Paraboloid w/o Radome	From Leg	1.000	0.000		202.000	6.000	No Ice	28.270	0.140
				0.000					1/2" Ice	29.050	0.290
				0.000					1" Ice	29.830	0.440
									2" Ice	31.390	0.740

Load Combinations

Comb. No.	Description
1	Dead Only
2	1.2 Dead+1.0 Wind 0 deg - No Ice
3	0.9 Dead+1.0 Wind 0 deg - No Ice
4	1.2 Dead+1.0 Wind 30 deg - No Ice
5	0.9 Dead+1.0 Wind 30 deg - No Ice
6	1.2 Dead+1.0 Wind 60 deg - No Ice
7	0.9 Dead+1.0 Wind 60 deg - No Ice
8	1.2 Dead+1.0 Wind 90 deg - No Ice
9	0.9 Dead+1.0 Wind 90 deg - No Ice
10	1.2 Dead+1.0 Wind 120 deg - No Ice
11	0.9 Dead+1.0 Wind 120 deg - No Ice
12	1.2 Dead+1.0 Wind 150 deg - No Ice
13	0.9 Dead+1.0 Wind 150 deg - No Ice
14	1.2 Dead+1.0 Wind 180 deg - No Ice
15	0.9 Dead+1.0 Wind 180 deg - No Ice
16	1.2 Dead+1.0 Wind 210 deg - No Ice
17	0.9 Dead+1.0 Wind 210 deg - No Ice
18	1.2 Dead+1.0 Wind 240 deg - No Ice
19	0.9 Dead+1.0 Wind 240 deg - No Ice
20	1.2 Dead+1.0 Wind 270 deg - No Ice
21	0.9 Dead+1.0 Wind 270 deg - No Ice
22	1.2 Dead+1.0 Wind 300 deg - No Ice
23	0.9 Dead+1.0 Wind 300 deg - No Ice
24	1.2 Dead+1.0 Wind 330 deg - No Ice
25	0.9 Dead+1.0 Wind 330 deg - No Ice
26	1.2 Dead+1.0 Ice+1.0 Temp
27	1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp
28	1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp
29	1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp
30	1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp
34	1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp
35	1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp
36	1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp
37	1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp
38	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp
39	Dead+Wind 0 deg - Service
40	Dead+Wind 30 deg - Service
41	Dead+Wind 60 deg - Service
42	Dead+Wind 90 deg - Service
43	Dead+Wind 120 deg - Service
44	Dead+Wind 150 deg - Service
45	Dead+Wind 180 deg - Service
46	Dead+Wind 210 deg - Service
47	Dead+Wind 240 deg - Service
48	Dead+Wind 270 deg - Service
49	Dead+Wind 300 deg - Service
50	Dead+Wind 330 deg - Service

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	255 - 240	Leg	Max Tension	15	12.213	0.624	-0.006
			Max. Compression	2	-14.208	0.559	-0.004
			Max. Mx	2	-14.207	-0.667	0.007
			Max. My	4	-1.253	-0.031	-0.563
			Max. Vy	2	-2.450	0.559	-0.004
			Max. Vx	24	-1.901	-0.005	0.147
		Diagonal	Max Tension	2	3.186	0.000	0.000
			Max. Compression	2	-3.207	0.000	0.000
			Max. Mx	2	-1.037	0.019	-0.001
			Max. My	8	-2.694	-0.001	-0.009
			Max. Vy	35	0.023	0.018	-0.002
			Max. Vx	8	0.003	0.000	0.000
		Top Girt	Max Tension	23	0.123	0.000	0.000
			Max. Compression	21	-0.202	0.000	0.000
			Max. Mx	26	-0.022	-0.037	0.000
			Max. My	38	-0.028	0.000	0.001
			Max. Vy	26	0.030	0.000	0.000
			Max. Vx	38	0.001	0.000	0.000
T2	240 - 220	Leg	Max Tension	15	49.602	2.131	-0.017
			Max. Compression	2	-56.101	1.194	-0.017
			Max. Mx	2	-56.096	-2.651	0.024
			Max. My	4	-1.266	-0.078	-1.469
			Max. Vy	2	-7.685	1.194	-0.017
			Max. Vx	4	3.303	-0.058	-0.682
		Diagonal	Max Tension	12	6.768	0.000	0.000
			Max. Compression	20	-6.176	0.000	0.000
			Max. Mx	2	-1.010	0.039	-0.002
			Max. My	20	-6.153	-0.008	0.037
			Max. Vy	35	0.029	0.027	-0.003
			Max. Vx	20	-0.009	0.000	0.000
T3	220 - 200	Leg	Max Tension	15	93.445	2.839	-0.017
			Max. Compression	2	-104.349	1.058	-0.003
			Max. Mx	2	-56.121	5.001	-0.056
			Max. My	4	-3.877	-0.089	-2.335
			Max. Vy	2	-9.966	1.058	-0.003
			Max. Vx	4	4.401	0.087	-0.717
		Diagonal	Max Tension	20	8.114	0.000	0.000
			Max. Compression	20	-7.188	0.000	0.000
			Max. Mx	28	0.419	0.038	0.003
			Max. My	20	-7.147	-0.006	0.020
			Max. Vy	28	0.037	0.038	0.003
			Max. Vx	20	-0.004	0.000	0.000
T4	200 - 180	Leg	Max Tension	7	138.045	3.416	0.166
			Max. Compression	2	-152.532	0.875	0.002
			Max. Mx	2	-104.368	6.005	-0.027
			Max. My	4	-6.900	0.356	-2.919
			Max. Vy	2	-10.561	0.875	0.002
			Max. Vx	24	-4.510	0.027	0.392
		Diagonal	Max Tension	8	8.646	0.000	0.000
			Max. Compression	20	-9.076	0.000	0.000
			Max. Mx	37	1.154	0.059	-0.005
			Max. My	20	-9.016	-0.007	0.024
			Max. Vy	32	0.050	0.058	0.005
			Max. Vx	20	-0.005	0.000	0.000
T5	180 - 160	Leg	Max Tension	7	178.511	3.740	0.145
			Max. Compression	2	-196.839	0.902	0.005
			Max. Mx	2	-152.551	6.129	0.004
			Max. My	24	-11.281	0.240	2.650
			Max. Vy	18	-11.503	0.904	0.031
			Max. Vx	24	-4.643	0.028	0.396
		Diagonal	Max Tension	8	8.874	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	8	-9.017	0.000	0.000
			Max. Mx	32	0.406	0.073	0.007
			Max. My	8	-8.942	-0.004	-0.020
			Max. Vy	32	0.057	0.073	0.007
			Max. Vx	8	0.004	0.000	0.000
T6	160 - 140	Leg	Max Tension	7	216.318	4.052	0.125
			Max. Compression	18	-238.879	0.982	0.038
			Max. Mx	18	-196.559	6.631	0.288
			Max. My	24	-14.921	0.218	2.721
			Max. Vy	18	-12.435	0.982	0.038
			Max. Vx	24	-4.875	0.025	0.517
		Diagonal	Max Tension	8	9.216	0.000	0.000
			Max. Compression	8	-9.283	0.000	0.000
			Max. Mx	32	0.424	0.090	0.008
			Max. My	22	-7.983	0.016	0.016
			Max. Vy	32	0.063	0.090	0.008
			Max. Vx	22	-0.003	0.000	0.000
T7	140 - 120	Leg	Max Tension	7	252.629	5.109	0.132
			Max. Compression	18	-280.423	0.153	0.007
			Max. Mx	18	-238.903	7.175	0.255
			Max. My	24	-18.190	0.205	2.957
			Max. Vy	18	-13.683	0.153	0.007
			Max. Vx	24	-5.255	0.003	0.152
		Diagonal	Max Tension	8	10.026	0.000	0.000
			Max. Compression	8	-9.767	0.000	0.000
			Max. Mx	32	0.441	0.123	0.011
			Max. My	22	-9.031	0.026	0.018
			Max. Vy	32	0.079	0.123	0.011
			Max. Vx	38	0.003	0.000	0.000
T8	120 - 100	Leg	Max Tension	7	287.796	4.742	0.098
			Max. Compression	18	-321.189	1.185	0.039
			Max. Mx	18	-280.445	6.995	0.198
			Max. My	24	-21.343	0.172	2.784
			Max. Vy	18	-14.974	1.185	0.039
			Max. Vx	24	-5.658	0.024	0.673
		Diagonal	Max Tension	8	10.502	0.000	0.000
			Max. Compression	8	-10.287	0.000	0.000
			Max. Mx	38	0.532	0.144	-0.013
			Max. My	22	-9.493	0.033	0.018
			Max. Vy	38	0.086	0.144	-0.013
			Max. Vx	38	0.003	0.000	0.000
T9	100 - 80	Leg	Max Tension	7	322.178	5.247	0.087
			Max. Compression	18	-362.104	0.901	0.053
			Max. Mx	18	-321.217	8.641	0.207
			Max. My	24	-24.284	0.185	3.505
			Max. Vy	18	-15.654	0.901	0.053
			Max. Vx	24	-6.416	-0.007	1.083
		Diagonal	Max Tension	10	11.258	0.000	0.000
			Max. Compression	8	-11.238	0.000	0.000
			Max. Mx	35	1.100	0.184	0.016
			Max. My	22	-10.341	0.058	0.023
			Max. Vy	36	0.099	0.173	0.017
			Max. Vx	38	0.004	0.000	0.000
T10	80 - 60	Leg	Max Tension	7	355.693	6.747	0.098
			Max. Compression	18	-402.497	-0.514	0.020
			Max. Mx	18	-402.470	-8.738	-0.118
			Max. My	24	-27.429	0.174	4.293
			Max. Vy	18	-16.436	-0.514	0.020
			Max. Vx	24	-6.543	-0.030	0.441
		Diagonal	Max Tension	9	12.679	0.000	0.000
			Max. Compression	10	-13.138	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	36	1.718	0.279	0.000
			Max. My	31	-0.116	0.000	-0.007
			Max. Vy	36	-0.103	0.000	0.000
			Max. Vx	31	0.003	0.000	0.000
		Horizontal	Max Tension	18	6.795	0.000	0.000
			Max. Compression	18	-6.795	-0.058	0.000
			Max. Mx	26	0.966	-0.178	0.004
			Max. My	6	3.467	-0.049	0.005
			Max. Vy	26	-0.095	-0.178	0.004
			Max. Vx	35	-0.002	-0.178	0.004
		Inner Bracing	Max Tension	1	0.000	0.000	0.000
			Max. Compression	37	-0.010	0.000	0.000
			Max. Mx	26	-0.009	-0.121	0.000
			Max. My	18	-0.005	0.000	-0.000
			Max. Vy	26	-0.051	0.000	0.000
			Max. Vx	18	0.000	0.000	0.000
T11	60 - 40	Leg	Max Tension	7	387.667	6.428	0.080
			Max. Compression	18	-441.459	0.315	0.030
			Max. Mx	18	-441.432	-8.385	-0.094
			Max. My	24	-30.598	0.132	3.716
			Max. Vy	18	-17.388	0.315	0.030
			Max. Vx	24	-6.655	-0.009	0.761
		Diagonal	Max Tension	9	12.811	0.000	0.000
			Max. Compression	11	-13.081	0.000	0.000
			Max. Mx	36	1.776	0.311	0.000
			Max. My	31	-0.024	0.000	-0.007
			Max. Vy	36	-0.108	0.000	0.000
			Max. Vx	31	0.003	0.000	0.000
		Horizontal	Max Tension	18	7.475	0.000	0.000
			Max. Compression	18	-7.475	-0.078	0.001
			Max. Mx	31	0.498	-0.220	0.005
			Max. My	6	3.808	-0.066	0.006
			Max. Vy	31	-0.110	-0.220	0.005
			Max. Vx	35	-0.002	-0.220	0.005
		Inner Bracing	Max Tension	1	0.000	0.000	0.000
			Max. Compression	37	-0.011	0.000	0.000
			Max. Mx	26	-0.010	-0.136	0.000
			Max. My	18	-0.005	0.000	-0.000
			Max. Vy	26	0.053	0.000	0.000
			Max. Vx	18	0.000	0.000	0.000
T12	40 - 20	Leg	Max Tension	7	418.458	7.289	0.078
			Max. Compression	18	-479.589	-0.433	0.019
			Max. Mx	18	-479.559	-9.531	-0.090
			Max. My	24	-33.737	0.142	4.092
			Max. Vy	18	-18.182	-0.433	0.019
			Max. Vx	24	-6.700	-0.019	0.522
		Diagonal	Max Tension	9	13.146	0.000	0.000
			Max. Compression	11	-13.366	0.000	0.000
			Max. Mx	36	2.001	0.339	0.000
			Max. My	31	0.223	0.000	-0.008
			Max. Vy	36	0.111	0.000	0.000
			Max. Vx	31	-0.003	0.000	0.000
		Horizontal	Max Tension	18	8.136	0.000	0.000
			Max. Compression	18	-8.136	-0.090	0.001
			Max. Mx	27	-0.559	-0.244	0.005
			Max. My	29	1.662	-0.244	0.006
			Max. Vy	31	-0.113	-0.240	0.005
			Max. Vx	31	-0.002	-0.240	0.005
		Inner Bracing	Max Tension	1	0.000	0.000	0.000
			Max. Compression	37	-0.011	0.000	0.000
			Max. Mx	26	-0.010	-0.149	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. My	18	-0.005	0.000	-0.000
			Max. Vy	26	0.054	0.000	0.000
			Max. Vx	18	0.000	0.000	0.000
T13	20 - 0	Leg	Max Tension	7	447.699	7.184	0.076
			Max. Compression	18	-516.181	0.000	0.000
			Max. Mx	18	-516.151	-9.498	-0.097
			Max. My	24	-36.958	0.132	3.876
			Max. Vy	18	-18.981	0.000	0.000
			Max. Vx	24	-6.703	0.132	3.876
		Diagonal	Max Tension	9	13.198	0.000	0.000
			Max. Compression	11	-13.385	0.000	0.000
			Max. Mx	31	2.398	0.414	0.000
			Max. My	31	0.753	0.000	-0.010
			Max. Vy	31	-0.128	0.000	0.000
			Max. Vx	31	0.003	0.000	0.000
		Horizontal	Max Tension	18	8.774	0.000	0.000
			Max. Compression	18	-8.774	-0.132	0.001
			Max. Mx	35	-0.630	-0.327	0.007
			Max. My	29	1.803	-0.324	0.008
			Max. Vy	35	0.133	-0.327	0.007
			Max. Vx	29	0.003	-0.324	0.008
		Inner Bracing	Max Tension	1	0.000	0.000	0.000
			Max. Compression	29	-0.012	0.000	0.000
			Max. Mx	35	-0.011	-0.152	0.000
			Max. My	35	-0.011	0.000	-0.000
			Max. Vy	35	0.051	0.000	0.000
			Max. Vx	35	0.000	0.000	0.000

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	515.075	33.631	-19.238
	Max. H_x	18	515.075	33.631	-19.238
	Max. H_z	5	-389.161	-25.595	17.631
	Min. Vert	7	-446.502	-30.795	17.573
	Min. H_x	7	-446.502	-30.795	17.573
	Min. H_z	18	515.075	33.631	-19.238
Leg B	Max. Vert	10	512.299	-33.753	-18.758
	Max. H_x	23	-444.472	30.947	17.044
	Max. H_z	25	-387.425	25.776	17.052
	Min. Vert	23	-444.472	30.947	17.044
	Min. H_x	10	512.299	-33.753	-18.758
	Min. H_z	10	512.299	-33.753	-18.758
Leg A	Max. Vert	2	511.524	-0.178	38.377
	Max. H_x	21	31.871	5.439	1.553
	Max. H_z	2	511.524	-0.178	38.377
	Min. Vert	15	-428.986	0.195	-34.111
	Min. H_x	9	31.871	-5.444	1.554
	Min. H_z	15	-428.986	0.195	-34.111

Tower Mast Reaction Summary

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
Dead Only	64.645	-0.000	0.000	6.040	4.212	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	77.574	0.000	-65.194	-10094.388	5.105	-7.800
0.9 Dead+1.0 Wind 0 deg - No Ice	58.180	0.000	-65.191	-10076.476	3.828	-7.790
1.2 Dead+1.0 Wind 30 deg - No Ice	77.574	32.161	-52.973	-8220.275	-5076.190	13.808
0.9 Dead+1.0 Wind 30 deg - No Ice	58.180	32.160	-52.971	-8206.026	-5067.553	13.803
1.2 Dead+1.0 Wind 60 deg - No Ice	77.574	53.727	-30.696	-4795.911	-8432.096	6.483
0.9 Dead+1.0 Wind 60 deg - No Ice	58.180	53.726	-30.695	-4788.399	-8416.906	6.464
1.2 Dead+1.0 Wind 90 deg - No Ice	77.574	62.776	-1.265	-257.990	-9785.331	2.549
0.9 Dead+1.0 Wind 90 deg - No Ice	58.180	62.774	-1.266	-259.351	-9767.497	2.520
1.2 Dead+1.0 Wind 120 deg - No Ice	77.574	57.981	30.951	4665.936	-8980.703	23.190
0.9 Dead+1.0 Wind 120 deg - No Ice	58.180	57.979	30.949	4655.074	-8964.444	23.160
1.2 Dead+1.0 Wind 150 deg - No Ice	77.574	30.535	52.766	8187.606	-4732.452	31.471
0.9 Dead+1.0 Wind 150 deg - No Ice	58.180	30.534	52.764	8169.837	-4724.425	31.451
1.2 Dead+1.0 Wind 180 deg - No Ice	77.574	0.000	59.656	9339.458	5.101	7.799
0.9 Dead+1.0 Wind 180 deg - No Ice	58.180	0.000	59.654	9319.389	3.825	7.790
1.2 Dead+1.0 Wind 210 deg - No Ice	77.574	-30.641	52.950	8230.375	4767.391	-8.164
0.9 Dead+1.0 Wind 210 deg - No Ice	58.180	-30.640	52.949	8212.509	4756.754	-8.161
1.2 Dead+1.0 Wind 240 deg - No Ice	77.574	-58.163	31.056	4690.317	9033.252	-2.087
0.9 Dead+1.0 Wind 240 deg - No Ice	58.180	-58.161	31.055	4679.399	9014.342	-2.066
1.2 Dead+1.0 Wind 270 deg - No Ice	77.574	-62.776	-1.265	-257.992	9795.497	-2.551
0.9 Dead+1.0 Wind 270 deg - No Ice	58.180	-62.774	-1.266	-259.352	9775.110	-2.522
1.2 Dead+1.0 Wind 300 deg - No Ice	77.574	-53.545	-30.591	-4771.397	8399.951	-27.588
0.9 Dead+1.0 Wind 300 deg - No Ice	58.180	-53.543	-30.590	-4763.940	8382.302	-27.560
1.2 Dead+1.0 Wind 330 deg - No Ice	77.574	-32.055	-52.788	-8177.434	5061.708	-37.115
0.9 Dead+1.0 Wind 330 deg - No Ice	58.180	-32.054	-52.786	-8163.283	5050.571	-37.094
1.2 Dead+1.0 Ice+1.0 Temp	213.165	0.001	-0.001	42.097	47.676	-0.001
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	213.165	0.000	-8.891	-1398.659	48.131	-2.476
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	213.165	4.437	-7.444	-1165.435	-679.037	-0.089
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	213.165	7.576	-4.345	-664.331	-1186.880	0.319
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	213.165	8.830	-0.111	18.791	-1384.207	1.349
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	213.165	7.875	4.324	731.004	-1226.554	3.728

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	213.165	4.294	7.427	1246.728	-648.413	4.462
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	213.165	0.000	8.492	1426.265	48.124	2.474
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	213.165	-4.303	7.442	1250.225	746.685	0.588
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	213.165	-7.890	4.333	733.021	1326.309	0.066
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	213.165	-8.830	-0.111	18.786	1480.462	-1.351
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	213.165	-7.561	-4.337	-662.315	1279.642	-4.116
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	213.165	-4.428	-7.429	-1161.938	773.282	-4.961
Dead+Wind 0 deg - Service	64.645	0.000	-20.887	-3226.402	4.235	-2.497
Dead+Wind 30 deg - Service	64.645	10.304	-16.972	-2626.714	-1621.680	4.445
Dead+Wind 60 deg - Service	64.645	17.213	-9.835	-1530.940	-2695.581	2.073
Dead+Wind 90 deg - Service	64.645	20.113	-0.405	-78.811	-3128.639	0.787
Dead+Wind 120 deg - Service	64.645	18.576	9.916	1496.803	-2871.199	7.420
Dead+Wind 150 deg - Service	64.645	9.783	16.905	2623.699	-1511.787	10.102
Dead+Wind 180 deg - Service	64.645	0.000	19.113	2992.289	4.234	2.497
Dead+Wind 210 deg - Service	64.645	-9.817	16.964	2637.393	1528.165	-2.638
Dead+Wind 240 deg - Service	64.645	-18.635	9.950	1504.619	2893.218	-0.660
Dead+Wind 270 deg - Service	64.645	-20.113	-0.405	-78.811	3137.103	-0.788
Dead+Wind 300 deg - Service	64.645	-17.155	-9.801	-1523.109	2690.499	-8.834
Dead+Wind 330 deg - Service	64.645	-10.270	-16.913	-2613.014	1622.246	-11.911

Solution Summary

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX	PY	PZ	PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.000	-64.645	0.000	0.000	64.645	-0.000	0.000%
2	0.000	-77.574	-65.197	-0.000	77.574	65.194	0.003%
3	0.000	-58.180	-65.197	-0.000	58.180	65.191	0.007%
4	32.162	-77.574	-52.975	-32.161	77.574	52.973	0.003%
5	32.162	-58.180	-52.975	-32.160	58.180	52.971	0.006%
6	53.730	-77.574	-30.697	-53.727	77.574	30.696	0.003%
7	53.730	-58.180	-30.697	-53.726	58.180	30.695	0.005%
8	62.779	-77.574	-1.265	-62.776	77.574	1.265	0.003%
9	62.779	-58.180	-1.265	-62.774	58.180	1.266	0.006%
10	57.984	-77.574	30.952	-57.981	77.574	-30.951	0.003%
11	57.984	-58.180	30.952	-57.979	58.180	-30.949	0.007%
12	30.537	-77.574	52.768	-30.535	77.574	-52.766	0.003%
13	30.537	-58.180	52.768	-30.534	58.180	-52.764	0.006%
14	0.000	-77.574	59.659	-0.000	77.574	-59.656	0.003%
15	0.000	-58.180	59.659	-0.000	58.180	-59.654	0.005%
16	-30.643	-77.574	52.953	30.641	77.574	-52.950	0.003%
17	-30.643	-58.180	52.953	30.640	58.180	-52.949	0.006%
18	-58.166	-77.574	31.057	58.163	77.574	-31.056	0.003%
19	-58.166	-58.180	31.057	58.161	58.180	-31.055	0.007%
20	-62.779	-77.574	-1.265	62.776	77.574	1.265	0.003%
21	-62.779	-58.180	-1.265	62.774	58.180	1.266	0.006%
22	-53.547	-77.574	-30.592	53.545	77.574	30.591	0.003%
23	-53.547	-58.180	-30.592	53.543	58.180	30.590	0.005%
24	-32.056	-77.574	-52.791	32.055	77.574	52.788	0.003%
25	-32.056	-58.180	-52.791	32.054	58.180	52.786	0.006%
26	0.000	-213.165	0.000	-0.001	213.165	0.001	0.001%

	Sum of Applied Forces			Sum of Reactions			
Load Comb.	PX K	PY K	PZ K	PX K	PY K	PZ K	% Error
27	0.000	-213.165	-8.892	-0.000	213.165	8.891	0.000%
28	4.437	-213.165	-7.445	-4.437	213.165	7.444	0.000%
29	7.576	-213.165	-4.346	-7.576	213.165	4.345	0.000%
30	8.830	-213.165	-0.111	-8.830	213.165	0.111	0.000%
31	7.875	-213.165	4.325	-7.875	213.165	-4.324	0.000%
32	4.295	-213.165	7.428	-4.294	213.165	-7.427	0.000%
33	0.000	-213.165	8.493	-0.000	213.165	-8.492	0.000%
34	-4.303	-213.165	7.443	4.303	213.165	-7.442	0.000%
35	-7.890	-213.165	4.333	7.890	213.165	-4.333	0.000%
36	-8.830	-213.165	-0.111	8.830	213.165	0.111	0.000%
37	-7.562	-213.165	-4.337	7.561	213.165	4.337	0.000%
38	-4.429	-213.165	-7.430	4.428	213.165	7.429	0.000%
39	0.000	-64.645	-20.889	-0.000	64.645	20.887	0.003%
40	10.305	-64.645	-16.973	-10.304	64.645	16.972	0.003%
41	17.215	-64.645	-9.835	-17.213	64.645	9.835	0.002%
42	20.114	-64.645	-0.405	-20.113	64.645	0.405	0.003%
43	18.578	-64.645	9.917	-18.576	64.645	-9.916	0.003%
44	9.784	-64.645	16.907	-9.783	64.645	-16.905	0.002%
45	0.000	-64.645	19.115	-0.000	64.645	-19.113	0.002%
46	-9.818	-64.645	16.966	9.817	64.645	-16.964	0.003%
47	-18.636	-64.645	9.951	18.635	64.645	-9.950	0.003%
48	-20.114	-64.645	-0.405	20.113	64.645	0.405	0.003%
49	-17.156	-64.645	-9.802	17.155	64.645	9.801	0.002%
50	-10.271	-64.645	-16.914	10.270	64.645	16.913	0.003%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	13	0.00004057	0.00009052
3	Yes	12	0.00007014	0.00014968
4	Yes	13	0.00003705	0.00008297
5	Yes	12	0.00006262	0.00013409
6	Yes	13	0.00003410	0.00007662
7	Yes	12	0.00005619	0.00012071
8	Yes	13	0.00003712	0.00008307
9	Yes	12	0.00006277	0.00013432
10	Yes	13	0.00004049	0.00009027
11	Yes	12	0.00006998	0.00014923
12	Yes	13	0.00003732	0.00008353
13	Yes	12	0.00006319	0.00013526
14	Yes	13	0.00003419	0.00007685
15	Yes	12	0.00005636	0.00012114
16	Yes	13	0.00003734	0.00008360
17	Yes	12	0.00006325	0.00013540
18	Yes	13	0.00004052	0.00009035
19	Yes	12	0.00007005	0.00014938
20	Yes	13	0.00003711	0.00008305
21	Yes	12	0.00006277	0.00013430
22	Yes	13	0.00003412	0.00007663
23	Yes	12	0.00005622	0.00012074
24	Yes	13	0.00003703	0.00008290
25	Yes	12	0.00006257	0.00013395
26	Yes	9	0.00000001	0.00012058
27	Yes	14	0.00000001	0.00008358

28	Yes	14	0.00000001	0.00008162
29	Yes	14	0.00000001	0.00008211
30	Yes	14	0.00000001	0.00008367
31	Yes	14	0.00000001	0.00008624
32	Yes	14	0.00000001	0.00008519
33	Yes	14	0.00000001	0.00008585
34	Yes	14	0.00000001	0.00008688
35	Yes	14	0.00000001	0.00008867
36	Yes	14	0.00000001	0.00008682
37	Yes	14	0.00000001	0.00008488
38	Yes	14	0.00000001	0.00008321
39	Yes	12	0.00000001	0.00014912
40	Yes	12	0.00000001	0.00014423
41	Yes	12	0.00000001	0.00014027
42	Yes	12	0.00000001	0.00014424
43	Yes	12	0.00000001	0.00014887
44	Yes	12	0.00000001	0.00014457
45	Yes	12	0.00000001	0.00014048
46	Yes	12	0.00000001	0.00014463
47	Yes	12	0.00000001	0.00014892
48	Yes	12	0.00000001	0.00014420
49	Yes	12	0.00000001	0.00014021
50	Yes	12	0.00000001	0.00014414

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	255 - 240	12.956	47	0.433	0.075
T2	240 - 220	11.573	47	0.429	0.075
T3	220 - 200	9.729	47	0.402	0.073
T4	200 - 180	7.999	47	0.367	0.066
T5	180 - 160	6.448	47	0.324	0.056
T6	160 - 140	5.082	47	0.281	0.046
T7	140 - 120	3.890	47	0.240	0.037
T8	120 - 100	2.867	47	0.203	0.028
T9	100 - 80	1.995	47	0.163	0.020
T10	80 - 60	1.292	47	0.127	0.014
T11	60 - 40	0.766	47	0.094	0.010
T12	40 - 20	0.378	47	0.061	0.006
T13	20 - 0	0.121	47	0.031	0.003

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
255.000	Lightning Rod 1"x10'	47	12.956	0.433	0.075	347740
250.000	Sector1(CaAa=13333.33 Sq.in)No Ice	47	12.496	0.433	0.075	347740
238.000	Sector1(CaAa=10000 Sq.in)No Ice	47	11.388	0.427	0.074	222186
226.000	Sector1(CaAa=10000 Sq.in)No Ice	47	10.276	0.412	0.074	54316
214.000	6' MW Dish	47	9.194	0.392	0.071	30544
202.000	6' MW Dish	47	8.164	0.370	0.067	25609

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	255 - 240	40.477	18	1.351	0.234
T2	240 - 220	36.159	18	1.339	0.232
T3	220 - 200	30.398	18	1.255	0.227
T4	200 - 180	24.991	18	1.144	0.206
T5	180 - 160	20.146	18	1.011	0.173
T6	160 - 140	15.880	18	0.876	0.144
T7	140 - 120	12.155	18	0.749	0.114
T8	120 - 100	8.959	18	0.632	0.089
T9	100 - 80	6.234	18	0.509	0.063
T10	80 - 60	4.037	18	0.397	0.043
T11	60 - 40	2.394	18	0.295	0.031
T12	40 - 20	1.181	18	0.190	0.020
T13	20 - 0	0.380	18	0.095	0.009

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
255.000	Lightning Rod 1"x10'	18	40.477	1.351	0.234	110767
250.000	Sector1(CaAa=13333.33 Sq.in)No Ice	18	39.041	1.350	0.233	110767
238.000	Sector1(CaAa=10000 Sq.in)No Ice	18	35.580	1.333	0.232	70944
226.000	Sector1(CaAa=10000 Sq.in)No Ice	18	32.107	1.285	0.230	17515
214.000	6' MW Dish	18	28.724	1.223	0.222	9839
202.000	6' MW Dish	18	25.508	1.156	0.208	8241

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T1	255	Diagonal	A325X	0.625	1	3.186	9.598	0.332 ✓	1	Member Block Shear
		Top Girt	A325X	0.625	1	0.202	14.625	0.014 ✓	1	Member Bearing
T2	240	Leg	A325N	0.750	6	2.034	30.101	0.068 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	6.768	9.598	0.705 ✓	1	Member Block Shear
T3	220	Leg	A325N	0.750	6	8.265	30.101	0.275 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	8.114	10.740	0.755 ✓	1	Member Block Shear
T4	200	Leg	A325N	0.750	6	15.572	30.101	0.517 ✓	1	Bolt Tension

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
		Diagonal	A325X	0.625	1	8.646	13.025	0.664 ✓	1	Member Block Shear
T5	180	Leg	A325N	0.750	6	23.006	30.101	0.764 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	8.874	13.025	0.681 ✓	1	Member Block Shear
T6	160	Leg	A325N	0.750	6	29.750	30.101	0.988 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	9.216	13.025	0.708 ✓	1	Member Block Shear
T7	140	Leg	A325N	1.000	6	36.051	54.517	0.661 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	10.026	14.168	0.708 ✓	1	Member Block Shear
T8	120	Leg	A325N	1.000	6	42.102	54.517	0.772 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	10.502	14.168	0.741 ✓	1	Member Block Shear
T9	100	Leg	A325N	1.000	6	47.963	54.517	0.880 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	11.258	17.257	0.652 ✓	1	Bolt Shear
T10	80	Leg	A325N	1.000	6	53.693	54.517	0.985 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	12.679	26.051	0.487 ✓	1	Member Block Shear
		Horizontal	A325X	0.625	1	6.795	19.195	0.354 ✓	1	Member Block Shear
T11	60	Leg	A325N	1.250	6	59.279	87.220	0.680 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	12.811	26.051	0.492 ✓	1	Member Block Shear
		Horizontal	A325X	0.625	1	7.475	21.480	0.348 ✓	1	Member Block Shear
T12	40	Leg	A325N	1.250	6	64.608	87.220	0.741 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	13.146	26.051	0.505 ✓	1	Member Block Shear
		Horizontal	A325X	0.625	1	8.136	21.480	0.379 ✓	1	Member Block Shear
T13	20	Leg	A325N	1.250	6	69.739	87.220	0.800 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	13.198	28.336	0.466 ✓	1	Member Block Shear
		Horizontal	A325X	0.625	1	8.774	26.051	0.337 ✓	1	Member Block Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	255 - 240	1 3/4	15.014	4.671	128.1 K=1.00	2.405	-11.785	33.103	0.356 [1] ✓
T2	240 - 220	2	20.019	4.754	114.1	3.142	-50.394	54.509	0.925 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
					K=1.00				✔
T3	220 - 200	2 1/2	20.019	4.754	91.3 K=1.00	4.909	-98.459	120.108	0.820 [1] ✔
T4	200 - 180	2 3/4	20.019	4.754	83.0 K=1.00	5.940	-146.809	161.540	0.909 [1] ✔
T5	180 - 160	3	20.019	4.754	76.1 K=1.00	7.069	-191.265	208.347	0.918 [1] ✔
T6	160 - 140	3 1/4	20.019	4.754	70.2 K=1.00	8.296	-233.372	260.312	0.897 [1] ✔
T7	140 - 120	3 1/2	20.019	4.754	65.2 K=1.00	9.621	-274.796	317.273	0.866 [1] ✔
T8	120 - 100	3 1/2	20.019	4.754	65.2 K=1.00	9.621	-315.631	317.273	0.995 [1] ✔
T9	100 - 80	3 3/4	20.019	4.754	60.9 K=1.00	11.045	-356.586	379.106	0.941 [1] ✔
T10	80 - 60	4	20.019	4.754	57.1 K=1.00	12.566	-392.060	445.717	0.880 [1] ✔
T11	60 - 40	4	20.019	4.754	57.1 K=1.00	12.566	-431.258	445.717	0.968 [1] ✔
T12	40 - 20	4 1/4	20.019	4.754	53.7 K=1.00	14.186	-469.379	517.034	0.908 [1] ✔
T13	20 - 0	4 1/4	20.019	4.754	53.7 K=1.00	14.186	-506.228	517.034	0.979 [1] ✔

[1] P_u / ϕP_n controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	255 - 240	L1 3/4x1 3/4x3/16	7.166	3.605	125.9 K=1.00	0.621	-3.208	11.206	0.286 [1] ✔
T2	240 - 220	L1 3/4x1 3/4x3/16	8.697	4.355	152.2 K=1.00	0.621	-6.176	7.677	0.805 [1] ✔
T3	220 - 200	L2x2x3/16	9.987	4.976	151.6 K=1.00	0.715	-7.188	8.909	0.807 [1] ✔
T4	200 - 180	L2 1/2x2 1/2x3/16	11.329	5.636	136.6 K=1.00	0.902	-8.046	13.828	0.582 [1] ✔
T5	180 - 160	L2 1/2x2 1/2x3/16	12.706	6.314	153.1 K=1.00	0.902	-8.386	11.018	0.761 [1] ✔
T6	160 - 140	L2 1/2x2 1/2x3/16	14.108	7.005	169.8 K=1.00	0.902	-8.863	8.952	0.990 [1] ✔
T7	140 - 120	L3x3x3/16	15.529	7.705	155.1 K=1.00	1.090	-9.617	12.964	0.742 [1] ✔
T8	120 - 100	L3x3x3/16	16.963	8.422	169.6 K=1.00	1.090	-10.153	10.849	0.936 [1] ✔
T9	100 - 80	L3x3x1/4	18.408	9.134	185.2 K=1.00	1.440	-10.904	12.022	0.907 [1] ✔

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T10	80 - 60	2L2 1/2x2 1/2x3/16x3/8 2L 'a' > 60.948 in - 246	10.829	10.644	168.4 K=1.00	1.800	-12.474	17.598	0.709 [1] ✔
T11	60 - 40	2L2 1/2x2 1/2x3/16x3/8 2L 'a' > 64.848 in - 285	11.508	11.325	179.2 K=1.00	1.800	-12.715	15.610	0.815 [1] ✔
T12	40 - 20	2L2 1/2x2 1/2x3/16x3/8 2L 'a' > 68.729 in - 324	12.195	12.003	189.9 K=1.00	1.800	-13.195	13.944	0.946 [1] ✔
T13	20 - 0	2L3x3x3/16x3/8 2L 'a' > 72.539 in - 363	12.889	12.698	168.9 K=1.00	2.180	-13.355	20.815	0.642 [1] ✔

[1] P_u / ϕP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T10	80 - 60	2L1 3/4x1 3/4x3/16x3/8 2L 'a' > 54.035 in - 244	19.106	9.386	209.8 K=1.00	1.242	-6.795	8.079	0.841 [1] ✔
T11	60 - 40	2L2x2x3/16x3/8 2L 'a' > 58.256 in - 283	20.606	10.136	198.3 K=1.00	1.430	-7.475	10.268	0.728 [1] ✔
T12	40 - 20	2L2x2x3/16x3/8 2L 'a' > 62.506 in - 322	22.106	10.876	212.8 K=1.00	1.430	-8.136	8.936	0.910 [1] ✔
T13	20 - 0	2L2 1/2x2 1/2x3/16x3/8 2L 'a' > 66.573 in - 361	23.606	11.626	183.9 K=1.00	1.800	-8.774	14.835	0.591 [1] ✔

[1] P_u / ϕP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	255 - 240	L1 3/4x1 3/4x3/16	4.913	4.767	166.5 K=1.00	0.621	-0.202	6.409	0.032 [1] ✔

[1] P_u / ϕP_n controls

Inner Bracing Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T10	80 - 60	L1 3/4x1 3/4x3/16	9.553	9.553	333.8 K=1.00	0.621	-0.010	1.596	0.006 [1] ✔
		KL/R > 250 (C) - 253							
T11	60 - 40	L1 3/4x1 3/4x3/16	10.303	10.303	360.0 K=1.00	0.621	-0.011	1.372	0.008 [1] ✔
		KL/R > 250 (C) - 292							
T12	40 - 20	L1 3/4x1 3/4x3/16	11.053	11.053	386.2 K=1.00	0.621	-0.011	1.192	0.009 [1] ✔
		KL/R > 250 (C) - 331							
T13	20 - 0	L1 3/4x1 3/4x3/16	11.803	11.803	412.4 K=1.00	0.621	-0.012	1.045	0.011 [1] ✔
		KL/R > 250 (C) - 372							

[1] P_u / ϕP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	255 - 240	1 3/4	15.014	0.500	13.7	2.405	12.213	108.238	0.113 [1] ✔
T2	240 - 220	2	20.019	0.500	12.0	3.142	49.602	141.372	0.351 [1] ✔
T3	220 - 200	2 1/2	20.019	0.500	9.6	4.909	93.445	220.893	0.423 [1] ✔
T4	200 - 180	2 3/4	20.019	0.500	8.7	5.940	138.045	267.281	0.516 [1] ✔
T5	180 - 160	3	20.019	0.500	8.0	7.069	178.511	318.086	0.561 [1] ✔
T6	160 - 140	3 1/4	20.019	0.500	7.4	8.296	216.318	373.310	0.579 [1] ✔
T7	140 - 120	3 1/2	20.019	0.500	6.9	9.621	252.629	432.951	0.584 [1] ✔
T8	120 - 100	3 1/2	20.019	0.500	6.9	9.621	287.796	432.951	0.665 [1] ✔
T9	100 - 80	3 3/4	20.019	0.500	6.4	11.045	322.178	497.010	0.648 [1] ✔
T10	80 - 60	4	20.019	0.500	6.0	12.566	355.693	565.487	0.629 [1] ✔
T11	60 - 40	4	20.019	0.500	6.0	12.566	387.667	565.487	0.686 [1] ✔
T12	40 - 20	4 1/4	20.019	0.500	5.7	14.186	418.458	638.381	0.655 [1] ✔

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T13	20 - 0	4 1/4	20.019	0.500	5.7	14.186	447.699	638.381	0.701 [1] ✔

[1] P_u / ϕP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T1	255 - 240	L1 3/4x1 3/4x3/16	7.435	3.736	83.5	0.360	3.186	17.567	0.181 [1] ✔
T2	240 - 220	L1 3/4x1 3/4x3/16	8.697	4.355	97.3	0.360	6.768	17.567	0.385 [1] ✔
T3	220 - 200	L2x2x3/16	9.987	4.976	96.8	0.431	8.114	21.001	0.386 [1] ✔
T4	200 - 180	L2 1/2x2 1/2x3/16	11.329	5.636	86.9	0.571	8.646	27.838	0.311 [1] ✔
T5	180 - 160	L2 1/2x2 1/2x3/16	12.706	6.314	97.4	0.571	8.874	27.838	0.319 [1] ✔
T6	160 - 140	L2 1/2x2 1/2x3/16	14.108	7.005	108.0	0.571	9.216	27.838	0.331 [1] ✔
T7	140 - 120	L3x3x3/16	15.529	7.705	98.5	0.712	10.026	34.712	0.289 [1] ✔
T8	120 - 100	L3x3x3/16	16.963	8.422	107.6	0.712	10.502	34.712	0.303 [1] ✔
T9	100 - 80	L3x3x1/4	18.408	9.134	117.9	0.939	11.258	45.794	0.246 [1] ✔
T10	80 - 60	2L2 1/2x2 1/2x3/16x3/8	10.829	10.644	164.2	1.139	12.679	55.529	0.228 [1] ✔
T11	60 - 40	2L 'a' > 60.948 in - 245 2L2 1/2x2 1/2x3/16x3/8	11.508	11.325	174.7	1.139	12.811	55.529	0.231 [1] ✔
T12	40 - 20	2L 'a' > 64.848 in - 284 2L2 1/2x2 1/2x3/16x3/8	12.195	12.003	185.1	1.139	13.146	55.529	0.237 [1] ✔
T13	20 - 0	2L 'a' > 68.729 in - 323 2L3x3x3/16x3/8 2L 'a' > 72.539 in - 362	12.889	12.698	162.3	1.424	13.198	69.423	0.190 [1] ✔

[1] P_u / ϕP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T10	80 - 60	2L1 3/4x1 3/4x3/16x3/8	19.106	9.386	209.8	0.721	6.795	35.134	0.193 [1] ✔
T11	60 - 40	2L 'a' > 54.035 in - 244 2L2x2x3/16x3/8	20.606	10.136	197.1	0.862	7.475	42.001	0.178 [1] ✔
T12	40 - 20	2L 'a' > 58.256 in - 283 2L2x2x3/16x3/8	22.106	10.876	211.5	0.862	8.136	42.001	0.194 [1] ✔
T13	20 - 0	2L 'a' > 62.506 in - 328 2L2 1/2x2 1/2x3/16x3/8 2L 'a' > 66.573 in - 361	23.606	11.626	179.3	1.139	8.774	55.529	0.158 [1] ✔

[1] $P_u / \phi P_n$ controls

Top Girt Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	255 - 240	L1 3/4x1 3/4x3/16	4.913	4.767	106.5	0.360	0.123	17.567	0.007 [1] ✔

[1] $P_u / \phi P_n$ controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	255 - 240	Leg	1 3/4	3	-11.785	33.103	35.6	Pass
T2	240 - 220	Leg	2	27	-50.394	54.509	92.5	Pass
T3	220 - 200	Leg	2 1/2	54	-98.459	120.108	82.0	Pass
T4	200 - 180	Leg	2 3/4	81	-146.809	161.540	90.9	Pass
T5	180 - 160	Leg	3	108	-191.265	208.347	91.8	Pass
T6	160 - 140	Leg	3 1/4	135	-233.372	260.312	89.7 98.8 (b)	Pass
T7	140 - 120	Leg	3 1/2	160	-274.796	317.273	86.6	Pass
T8	120 - 100	Leg	3 1/2	187	-315.631	317.273	99.5	Pass
T9	100 - 80	Leg	3 3/4	214	-356.586	379.106	94.1	Pass
T10	80 - 60	Leg	4	241	-392.060	445.717	88.0 98.5 (b)	Pass
T11	60 - 40	Leg	4	280	-431.258	445.717	96.8	Pass
T12	40 - 20	Leg	4 1/4	319	-469.379	517.034	90.8	Pass
T13	20 - 0	Leg	4 1/4	358	-506.228	517.034	97.9	Pass
T1	255 - 240	Diagonal	L1 3/4x1 3/4x3/16	16	-3.208	11.206	28.6 33.2 (b)	Pass
T2	240 - 220	Diagonal	L1 3/4x1 3/4x3/16	28	-6.176	7.677	80.5	Pass

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T3	220 - 200	Diagonal	L2x2x3/16	55	-7.188	8.909	80.7	Pass
T4	200 - 180	Diagonal	L2 1/2x2 1/2x3/16	83	-8.046	13.828	58.2 66.4 (b)	Pass
T5	180 - 160	Diagonal	L2 1/2x2 1/2x3/16	110	-8.386	11.018	76.1	Pass
T6	160 - 140	Diagonal	L2 1/2x2 1/2x3/16	137	-8.863	8.952	99.0	Pass
T7	140 - 120	Diagonal	L3x3x3/16	164	-9.617	12.964	74.2	Pass
T8	120 - 100	Diagonal	L3x3x3/16	191	-10.153	10.849	93.6	Pass
T9	100 - 80	Diagonal	L3x3x1/4	218	-10.904	12.022	90.7	Pass
T10	80 - 60	Diagonal	2L2 1/2x2 1/2x3/16x3/8	246	-12.474	17.598	70.9	Pass
T11	60 - 40	Diagonal	2L2 1/2x2 1/2x3/16x3/8	285	-12.715	15.610	81.5	Pass
T12	40 - 20	Diagonal	2L2 1/2x2 1/2x3/16x3/8	324	-13.195	13.944	94.6	Pass
T13	20 - 0	Diagonal	2L3x3x3/16x3/8	363	-13.355	20.815	64.2	Pass
T10	80 - 60	Horizontal	2L1 3/4x1 3/4x3/16x3/8	244	-6.795	8.079	84.1	Pass
T11	60 - 40	Horizontal	2L2x2x3/16x3/8	283	-7.475	10.268	72.8	Pass
T12	40 - 20	Horizontal	2L2x2x3/16x3/8	322	-8.136	8.936	91.0	Pass
T13	20 - 0	Horizontal	2L2 1/2x2 1/2x3/16x3/8	361	-8.774	14.835	59.1	Pass
T1	255 - 240	Top Girt	L1 3/4x1 3/4x3/16	5	-0.202	6.409	3.2	Pass
T10	80 - 60	Inner Bracing	L1 3/4x1 3/4x3/16	253	-0.010	1.596	0.6	Pass
T11	60 - 40	Inner Bracing	L1 3/4x1 3/4x3/16	292	-0.011	1.372	0.8	Pass
T12	40 - 20	Inner Bracing	L1 3/4x1 3/4x3/16	331	-0.011	1.192	0.9	Pass
T13	20 - 0	Inner Bracing	L1 3/4x1 3/4x3/16	372	-0.012	1.045	1.1	Pass
							Summary	
						Leg (T8)	99.5	Pass
						Diagonal (T6)	99.0	Pass
						Horizontal (T12)	91.0	Pass
						Top Girt (T1)	3.2	Pass
						Inner Bracing (T13)	1.1	Pass
						Bolt Checks	98.8	Pass
						RATING =	**99.5**	**Pass**

Program Version 8.0.7.5

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
				Active

Search

	Utility ID	Utility Name	Utility Type	Class	City	State
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	4111900	ALLNETAIR, INC.	Cellular	C	West Palm Beach	FL
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	Buford	GA
View	4105700	Assurance Wireless USA, L.P.	Cellular	A	Atlanta	GA
View	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
View	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
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 Wireless	Cellular	A	Basking Ridge	NJ
View	4106600	Cintex Wireless, LLC	Cellular	D	Houston	TX
View	4111150	Comcast OTR1, LLC	Cellular	C	Phoeniexville	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	D	Long Island City	NY
View	10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	KY
View	4111650	DataBytes, Inc.	Cellular	D	Rogers	AR
View	4112000	DISH Wireless L.L.C.	Cellular	C	Englewood	CO
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	Herndon	VA
View	4111750	Gabb Wireless, Inc.	Cellular	D	Provo	UT
View	4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
View	4102200	Globalstar USA, LLC	Cellular	B	Covington	LA
View	4112050	GLOTELL US, Corp.	Cellular	C	Hallandale	FL
View	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
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	4111950	J Rhodes Enterprises LLC	Cellular	C	Gulf Breeze	FL
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	4109550	Kynect Communications, LLC	Cellular	D	Dallas	TX
View	4112200	Lexvor Inc.	Cellular	C	Irvine	CA
View	4111250	Liberty Mobile Wireless, LLC	Cellular	D	Sunny Isles Beach	FL
View	4111400	Locus Telecommunications, LLC	Cellular	A	Fort Lee	NJ
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	4111850	Mobi, Inc.	Cellular	C	Honolulu	HI
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	Cellular	D	Bellevue	WA
View	33351182	PNG Telecommunications, Inc. 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 of the South LLC dba 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	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	4112100	Tello LLC	Cellular	C	Atlanta	GA
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
View	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
View	4103300	Touchtone Communications, Inc.	Cellular	D	Whippany	NJ
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4002000	Truphone, Inc.	Cellular	D	Durham	NC
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	D	Costa Mesa	CA
View	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
View	4112150	Zefcom, LLC	Cellular	C	Wichita Falls	TX

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.
2020-ASO-13881-OE

Issued Date: 05/26/2020

Kristy Hurst
B+T Group Holdings, Inc.
1717 S. Boulder Ave.
Suite 300
Tulsa, OK 74119

**** 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 KYLEX2050 (Sharpsburg)
Location:	Sharspsburg, KY
Latitude:	38-12-39.34N NAD 83
Longitude:	83-56-02.64W
Heights:	989 feet site elevation (SE)
	267 feet above ground level (AGL)
	1256 feet above mean sea level (AMSL)

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

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

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

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

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

This determination expires on 11/26/2021 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 (404) 305-6582, or Stephanie.Kimmel@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASO-13881-OE.

Signature Control No: 439686466-441081347 (DNE)
Stephanie Kimmel
Specialist

Attachment(s)
Case Description
Frequency Data
Map(s)

cc: FCC

267-foot overall height self-supporting lattice telecommunications structure

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


1000
950
866
1000
950
1000

TOPO Map [illegible] 15881-OE

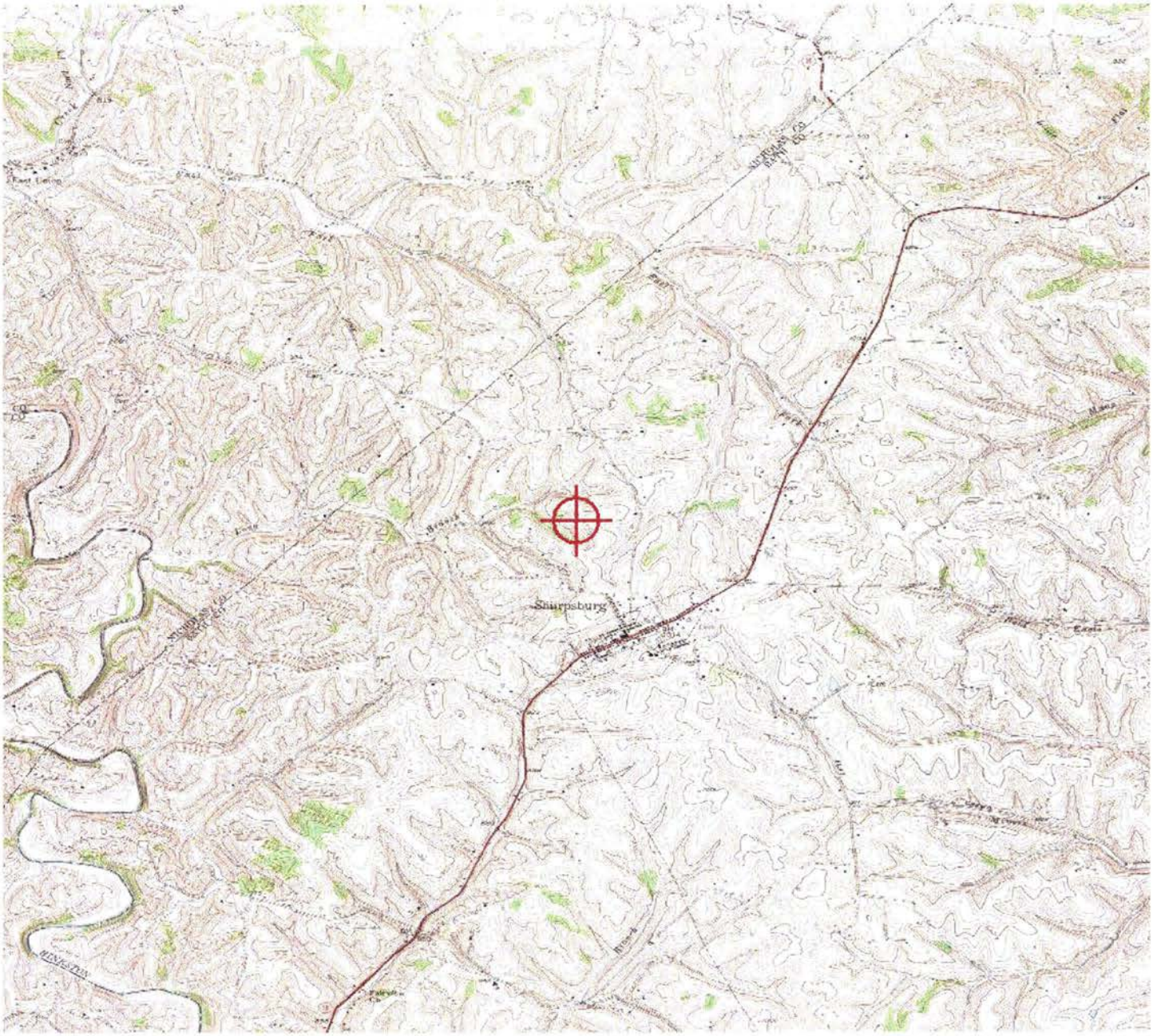


EXHIBIT F
KENTUCKY AIRPORT ZONING COMMISSION

KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR
Governor

Office of Audits, 200 Mero Street, 4th floor
Frankfort, KY 40622
www.transportation.ky.gov
502-782-4043

APPROVAL OF APPLICATION

August 13, 2020

APPLICANT
Uniti Towers
B&T Group - Patricia Parr
10802 Executive Center Dr. Ste 300
Little Rock, AR 72211

SUBJECT: AS-BATH-IOB-2020-106

STRUCTURE:	Antenna Tower
LOCATION:	Sharpsburg, KY
COORDINATES:	38° 12' 39.34" N / 83° 56' 2.64" W
HEIGHT:	267' AGL/1256' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 267' AGL/1256' AMSL Antenna Tower near Sharpsburg, KY 38° 12' 39.34" N / 83° 56' 2.64" W.

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

Dual - Red & Medium Intensity White Obstruction Lighting Required

Randall S. Royer

Randall S. Royer, Executive Director
Office of Audits
Acting Administrator
Randall.Royer@ky.gov
Jason.Salazar-Munoz@ky.gov

EXHIBIT G
GEOTECHNICAL REPORT

GEOTECHNICAL INVESTIGATION REPORT

February 6, 2021

Prepared For:

B+T Group

Sharpsburg
KYLEX2050
Proposed 255-Foot Self-Supporting Tower with a 12' Lightning Arrestor
635 Ramey Road, Sharpsburg (Bath County), Kentucky 40374
Latitude N 38° 12' 39.3" Longitude W 83° 56' 02.6"

Delta Oaks Group Project GEO21-08056-08
Revision 0
geotech@deltaoaksgroup.com

Performed By:

Justin Brosseau, E.I.

Reviewed By:

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

STATE OF KENTUCKY
JOSEPH V. BORRELLI
30809
LICENSED PROFESSIONAL ENGINEER
2/10/21

INTRODUCTION

This geotechnical investigation report has been completed for the proposed 255-Foot Self-Supporting Tower with a 12' Lightning Arrestor located at 635 Ramey Road in Sharpsburg (Bath County), Kentucky. The purpose of this investigation was to provide engineering recommendations and subsurface condition data at the proposed tower location. A geotechnical engineering interpretation of the collected information was completed and utilized to suggest design parameters regarding the adequacy of the structure's proposed foundation capacity under various loading conditions. This report provides the scope of the geotechnical investigation; geologic material identification; results of the geotechnical laboratory testing; and design parameter recommendations for use in the design of the telecommunication facility's foundation and site development.

SITE CONDITION SUMMARY

The proposed tower and compound are located on a grassy hill exhibiting a gradually sloping topography from the east to west across the tower compound and subject property.

REFERENCES

- Survey Drawings, prepared by Point to Point Land Surveyors, dated January 13, 2020
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of one mechanical soil test boring to the auger refusal depth of 11.4 feet bgs. Samples were obtained at selected intervals in accordance with ASTM D 1586. The sampling was conducted at the staked centerline of the proposed tower. Upon encountering auger refusal 5.0 feet of rock coring was conducted in accordance with ASTM D 2113. Soil and rock samples were transported to our laboratory and classified by a geotechnical engineer in accordance with ASTM D 2487. A detailed breakdown of the material encountered in our subsurface field investigation can be found in the boring log presented in the Appendix of this report.

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

SUBSURFACE CONDITION SUMMARY

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

FILL

Topsoil was encountered during the subsurface field investigation from the existing ground surface to a depth of 0.5 feet bgs.

SOIL

The residual soil encountered in the subsurface field investigation began at a depth of 0.5 feet bgs in the boring and consisted of lean clay. The materials ranged from a stiff to very stiff cohesion.

Auger advancement refusal was encountered during the subsurface field investigation at a depth of 11.4 feet bgs.

ROCK

Rock was encountered during the subsurface investigation at a depth of 11.4 feet bgs. The rock can be described as intensely fractured, highly weathered, moderately soft to moderately hard limestone.

SUBSURFACE WATER

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

FROST PENETRATION

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

CORROSIVITY

Soil resistivity was performed in accordance with ASTM G187 with a test result of 5,830 ohms-cm.

FOUNDATION DESIGN SUMMARY

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

GENERAL SUBSURFACE STRENGTH PARAMETERS

Boring	Depth (bgs)	USCS	Moist/Buoyant Unit Weight (pcf)	Phi Angle (degrees)	Cohesion (psf)
B-1	0.0 – 0.5	CL	105	0	0
	0.5 – 6.0	CL	110	0	1,500
	6.0 – 8.5	CL	120	0	2,500
	8.5 – 11.4	CL	110	0	1,500
	11.4 – 16.4	LIMESTONE	135	42	0

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

SUBSURFACE STRENGTH PARAMETERS – SHALLOW FOUNDATION

Boring	Dimensions (feet)	Depth (feet bgs)	Net Ultimate Bearing Capacity (psf)
B-1	5.0 x 5.0	3.0	10,360
		4.0	10,730
		5.0	11,100
		6.0	14,150
	10.0 x 10.0	3.0	9,810
		4.0	9,990
		5.0	10,180
		6.0	11,700
	15.0 x 15.0	3.0	9,620
		4.0	9,750
		5.0	9,870
		6.0	10,880
	20.0 x 20.0	3.0	9,530
		4.0	9,620
		5.0	9,710
		6.0	10,470
	25.0 x 25.0	3.0	9,470
		4.0	9,550
		5.0	9,620
		6.0	10,230

- Delta Oaks Group recommends the foundation bear a minimum of 3.0 feet bgs.
- A sliding friction factor of 0.30 can be utilized along the base of the proposed foundation.
- The bearing capacity can be increased by 1/3 for transient loading.
- An Ultimate Passive Pressure Table with a reduction due to frost penetration to a depth of 2.5 feet bgs is presented on the following page.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.

ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	105	0	0.00	0.00	1.00	0.00
Bottom	0.5	105	0	0.00	52.50	1.00	26.25
Top	0.5	110	0	1500.00	52.50	1.00	1526.25
Bottom	2.5	110	0	1500.00	272.50	1.00	1636.25
Top	2.5	110	0	1500.00	272.50	1.00	3272.50
Bottom	6.0	110	0	1500.00	657.50	1.00	3657.50
Top	6.0	120	0	2500.00	657.50	1.00	5657.50
Bottom	8.5	120	0	2500.00	957.50	1.00	5957.50
Top	8.5	110	0	1500.00	957.50	1.00	3957.50
Bottom	10.0	110	0	1500.00	1122.50	1.00	4122.50

SUBSURFACE STRENGTH PARAMETERS - DRILLED SHAFT FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction - Uplift (psf)
B-1	0.0 – 3.0	–	–	–
	3.0 – 4.0	5,400	820	820
	4.0 – 6.0	7,150	820	820
	6.0 – 9.0	17,400	130	130
	9.0 – 11.0	28,240	820	820
	11.0 – 16.4	32,180	720	540

- The top 3.0 feet of soil should be ignored due to the frost penetration and the potential soil disturbance during construction.
- The bearing capacity can be increased by 1/3 for transient loading.
- The values presented assume the concrete is cast-in-place against earth walls and any casing utilized during construction of the foundation was removed.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.

SUBSURFACE STRENGTH PARAMETERS – SUPPORT STRUCTURE FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (psf)	Minimum Design Footing Width (ft)	Modulus of Subgrade Reaction (pci)
B-1	2.0	9,340	2.0	300
	3.0	10,120		
	4.0	10,900		
	5.0	11,680		

- Delta Oaks Group recommends utilizing a slab on grade in conjunction with continuous perimeter footings that bear on residual soil or properly compacted structural fill placed in accordance with the recommendations provided in the *CONSTRUCTION* section of this report.
- The slab on grade should be properly reinforced to prevent concrete cracking and shrinkage.
- The foundation should bear a minimum of 2.0 feet bgs.
- A sliding friction factor of 0.30 can be utilized along the base of the proposed foundation.
- An Ultimate Passive Pressure Table is presented on the following page. An appropriate reduction should be considered in accordance with local building code frost penetration depth.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.

ULTIMATE PASSIVE PRESSURE VS. DEPTH – SUPPORT STRUCTURE FOUNDATION

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Top	0.0	105	0	0.00	0.00	1.00	0.00
Bottom	0.5	105	0	0.00	52.50	1.00	26.25
Top	0.5	110	0	1500.00	52.50	1.00	1526.25
Bottom	2.5	110	0	1500.00	272.50	1.00	1636.25
Top	2.5	110	0	1500.00	272.50	1.00	3272.50
Bottom	6.0	110	0	1500.00	657.50	1.00	3657.50
Top	6.0	120	0	2500.00	657.50	1.00	5657.50
Bottom	8.5	120	0	2500.00	957.50	1.00	5957.50
Top	8.5	110	0	1500.00	957.50	1.00	3957.50
Bottom	10.0	110	0	1500.00	1122.50	1.00	4122.50

CONSTRUCTION

SITE DEVELOPMENT

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

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

STRUCTURAL FILL PLACEMENT

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

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

SHALLOW FOUNDATIONS

Foundation excavation(s) should be evaluated by a Geotechnical Engineer, or their representative, prior to reinforcing steel and concrete placement. This evaluation should include visual observation to verify a level bearing surface; vertical side-walls with no protrusions, sloughing or caving; and the exposed bearing surface is free of deleterious material, loose soil and standing water. Excavation dimensions should be verified and testing performed on the exposed bearing surface to verify compliance with design recommendations. Bearing testing should be conducted in accordance with ASTM STP399 (Dynamic Cone Penetrometer). A 6-inch layer of compacted crushed stone should be installed prior to reinforcing steel and concrete placement. If subsurface water is encountered during excavation dewatering methods such as sump pumps or well points may be required.

DRILLED SHAFT FOUNDATIONS

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

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

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

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

QUALIFICATIONS

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

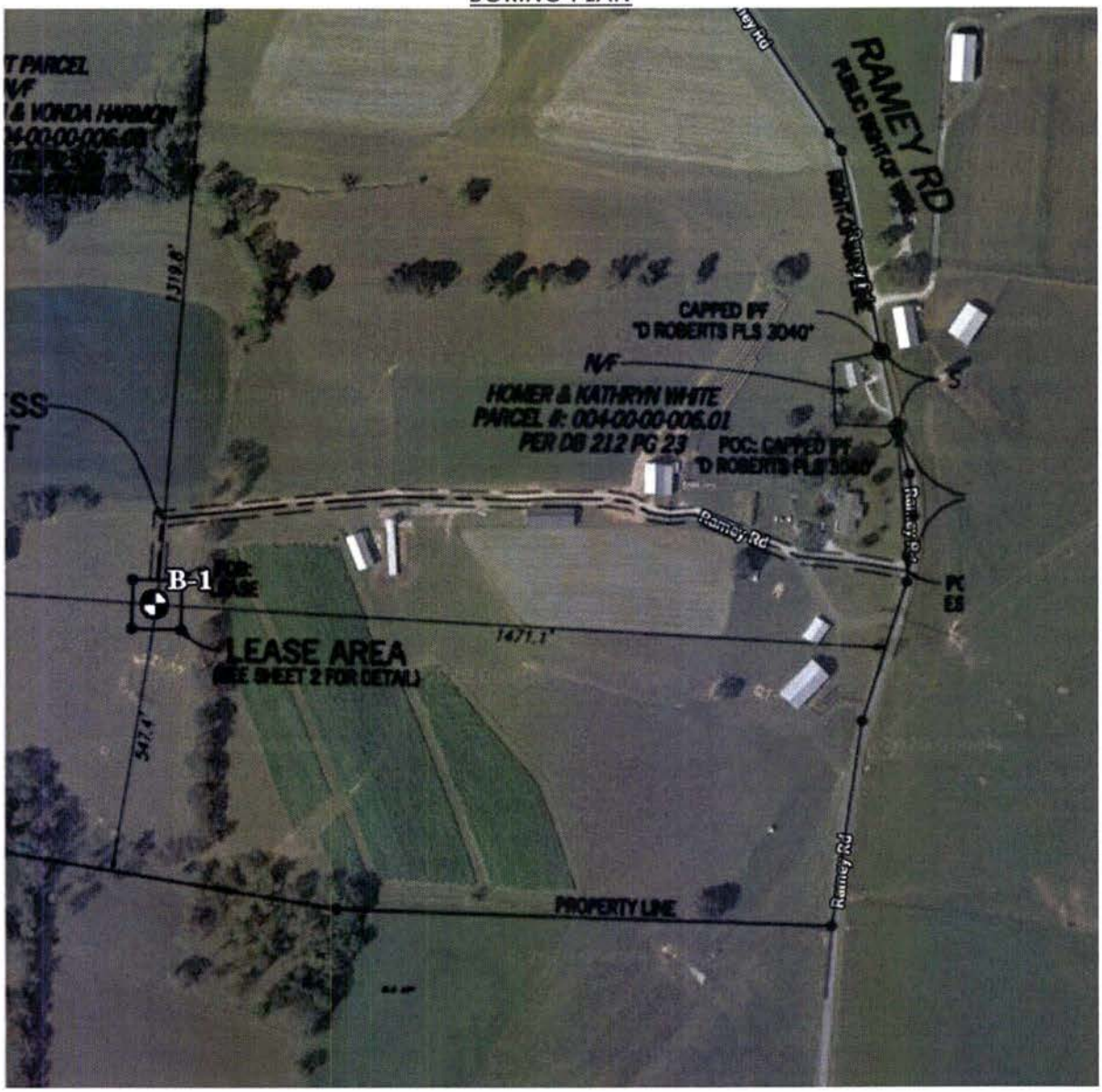
The subsurface conditions used in the determination of the design recommendations contained in this report are based on interpretation of subsurface data obtained at specific boring locations. Irrespective of the thoroughness of the subsurface investigation, the potential exists that conditions between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

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

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

APPENDIX

BORING PLAN


RAMEY RD
CAPPED IPF
"D ROBERTS PLS 2040"
N/F
HOMER & KATHRYN WHITE
PARCEL #: 004-00-00-006.01
PER DB 212 PG 23
POC: CAPPED IPF
"D ROBERTS PLS 2040"
Ramey Rd
B-1
LEASE AREA
(SEE SHEET 2 FOR DETAIL)
1471.1'
541.1'
1319.6'
PROPERTY LINE
Ramey Rd

PROJECT NAME Sharpsburg (KYLEX2050)

CLIENT B+T Grould

PROJECT NUMBER GEO21-08056-08

Boring No.: B-1 PAGE 1 OF 1

PROJECT LOCATION 635 Ramey Road, Sharpsburg, Kentucky 40374

DATE DRILLED : 1/29/2021

DRILLING METHOD : Hollow Stem Auger & Rock Coring

GROUND ELEVATION : 991

BORING DEPTH (ft) : 16.4

GROUND WATER LEVELS:

AT TIME OF DRILLING : — Not Encountered

AT END OF DRILLING : — Not Measured

AFTER DRILLING : — Not Measured

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE TYPE	MATERIAL CLASSIFICATION	Pocket Penetrometer (tsf)	BLOWS 1st	BLOWS 2nd	BLOWS 3rd	N VALUE
0	TOPSOIL							
	LEAN CLAY (CL), stiff, brown, with sand, trace silt, moist		CL		4	5	6	11
5					3	6	7	13
	-- Very stiff, no silt				6	8	11	19
10	-- Stiff				3	5	7	12
	LIMESTONE, gray and brown, intensely fractured, highly weathered, moderately soft to moderately hard, silty clay seams				REC	RQD		
15								
	Refusal at 11.4 feet. Bottom of borehole at 16.4 feet.							
20								

▲ SPT N VALUE ▲

10 20 30 40 50 60 70 80 90

EXHIBIT H
DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at the Bath County Judge Executive's Office, located at 19 E. Main Street Owingsville, KY 40360, head east (toward N. Court Street / Johnstan Street) on E. Main Street and travel approximately 0.1 miles.
2. Turn left onto Suddith Street and travel approximately 0.2 miles.
3. Follow Suddith Street as it turns right and becomes E. High Street and travel approximately 0.1 miles.
4. Turn left onto KY-36 W and travel approximately 10.9 miles.
5. Turn left onto KY-11 and travel approximately 0.5 miles.
6. Turn right onto Ramey Road and travel approximately 0.6 miles.
7. The site is located on the left at 695 Ramey Road, Sharpsburg, KY 40374. The site address is: 635 Ramey Road, Sharpsburg, KY 40374.
8. The site coordinates are:
    a. North 38 deg 12 min 39.34 sec
    b. West 83 deg 56 min 02.64 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

EXHIBIT I
COPY OF REAL ESTATE AGREEMENT

UNITI Site ID: KYLEX2050
Uniti Site Name: Sharpsburg
FA No.: 15147587

OPTION AND LEASE AGREEMENT

THIS OPTION AND LEASE AGREEMENT ("**Agreement**"), dated as of the latter of the signature dates below (the "**Effective Date**"), is entered into by Danny Harmon and Vonda Harmon, husband and wife, having a mailing address of 695 Ramey Rd Sharpsburg, KY 40374, ("**Landlord**") and Uniti Towers LLC, a Delaware limited liability company having a mailing address of 10802 Executive Center Drive, Benton Building, Suite 300, Little Rock AR 72211 ("**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 near 695 Ramey Road, in the City/Town of Sharpsburg, County of Bath, 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.

(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 thirty (30) business days after the Effective Date. The Option may be exercised during 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. 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, 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, Property or any of Landlord's contiguous, adjoining or surrounding property (the **"Surrounding Property,"**) or in the event of a threatened foreclosure, 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, Property or Surrounding Property or impose or consent to any other use or restriction that would prevent or limit Tenant from using the Premises for the Permitted Use. Any and all terms and conditions of this Agreement that by their sense and context are intended to be applicable during the Option Term shall be so applicable.

2. **PERMITTED USE.** Tenant may use the Premises for the transmission and reception of communications signals and the installation, construction, maintenance, operation, repair, replacement and upgrade of 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 (collectively, the **"Communication Facility"**), as well as the right to test, survey and review title on the Property; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord (collectively, the **"Permitted Use"**). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on **Exhibit 1** will not be deemed to limit Tenant's Permitted Use. If **Exhibit 1** includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of **Exhibit 1**. For a period of ninety (90) days following the start of construction, Landlord grants Tenant, its subtenants, licensees and sublicensees, the right to use such portions of 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 (5^{th}) 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 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 by giving to the other party 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 [redacted] 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, Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within forty-five (45) days after the Rent Commencement Date.

(b) In year two (2) of the Initial Term, and each year thereafter, including throughout any Extension Terms exercised, the monthly Rent will [redacted] effective the first day of the month in which the anniversary of the Term Commencement Date occurs

(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 15 of this Agreement after the applicable cure periods;

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

(c) by Tenant, upon written notice to Landlord, if Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory for its intended uses;

(d) by Tenant upon written notice to Landlord for any reason or no reason, at any time prior to commencement of construction by Tenant; or

(e) by Tenant upon sixty (60) days' prior written notice to Landlord for any reason or no reason, so long as Tenant [redacted] 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 18 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] 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 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) 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) as long as Tenant is not in default then Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises without hindrance or ejection by any persons lawfully claiming under Landlord ; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on Landlord; and (v) if the Property is or becomes encumbered by a deed to secure a debt, mortgage or other security interest, Landlord will provide promptly to Tenant a mutually agreeable subordination, non-disturbance and attornment agreement executed by Landlord and the holder of such security interest 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 11 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, Tenant will have the right, in addition to any other rights it may have at law or in equity, to terminate this Agreement upon written notice to Landlord.

12. ACCESS. At all times throughout the Term of this Agreement, and at no additional charge to Tenant, Tenant and its employees, agents, and subcontractors, will have twenty-four (24) hour per day, seven (7) day per week pedestrian and vehicular access ("Access") to and over the Property, from an open and improved public road to the Premises, for the installation, maintenance and operation of the Communication Facility and any utilities serving the Premises. As may be described more fully in **Exhibit 1**, Landlord grants to Tenant an easement for such Access and Landlord agrees to provide to Tenant such codes, keys and other instruments necessary for such Access at no additional cost to Tenant. Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. Landlord shall execute a letter granting Tenant Access to the Property substantially in the form attached as **Exhibit 12**; upon Tenant's request, Landlord shall execute additional letters during the Term. Landlord acknowledges that in the event Tenant cannot obtain Access to the Premises, Tenant shall incur significant damage. If Landlord fails to provide the Access granted by this Section 12, such failure shall be a default under this Agreement. In connection with such default, in addition to any other rights or remedies available to Tenant under this Agreement or at law or equity, Landlord shall pay Tenant, as liquidated damages and not as a penalty, [redacted] 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 Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of Tenant and may be removed by Tenant at any time during the Term. Within one hundred twenty (120) days after the termination of this Agreement, Tenant will remove all of Tenant's above-ground improvements and Tenant will, to the extent reasonable, restore the Premises to its condition at the commencement of this Agreement, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted. 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 structural steel or any foundations or 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. At Tenant's sole discretion, Tenant may, at its expense, construct and/or improve ingress/egress road from the public right-of-way to the Premises. Landlord will maintain and repair any damages caused by Landlord or Landlord's agents to the ingress/egress road 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) Reserved.

(c) Reserved.

(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, 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 as follows:

If to Tenant:
Uniti Towers LLC
Attn: Real Estate
10801 Executive Center Drive
Shannon Building, Suite 100
Little Rock AR 72211
501.458.4724

CC:
Uniti Towers LLC
ATTN: Keith Harvey, Deputy General Counsel
10802 Executive Center Drive
Benton Building, Suite 300
Little Rock AR 72211

For Emergencies: NOC 1-844-398-9716

If to Landlord: Danny and Vonda Harmon
695 Ramey Road
Sharpsburg, KY 40374
Telephone: 606-748-1471

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 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 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 at no additional Rent until the reconstruction of the Premises and/or the Communication Facility is completed. If Landlord determines not to rebuild or restore the Property, Landlord will notify Tenant of such determination within thirty (30) days after the casualty or other harm. If Landlord does not so notify Tenant and Tenant decides not to terminate under this Section, then Landlord will promptly rebuild or restore any portion of the Property interfering with or required for Tenant's Permitted Use of the Premises to substantially the same condition as existed before the casualty or other harm. Landlord agrees that the Rent shall be abated until the Property and/or the Premises are rebuilt or restored, unless Tenant places temporary transmission and reception facilities on the Property.

20. **WAIVER OF LANDLORD'S LIENS.** Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility or any portion thereof. The Communication Facility shall be deemed personal property for purposes of this Agreement, regardless of whether any portion is deemed real or personal property under applicable law; Landlord consents to Tenant's right to remove all or any portion of the Communication Facility from time to time in Tenant's sole discretion and without Landlord's consent.21.

(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 of this Agreement, Landlord shall provide the Notice address set forth in Section 17 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 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 22(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 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 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.** Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum of Lease substantially in the form attached as **Exhibit 24b**. 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 Uniti Towers 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) **Incidental Fees.** Unless specified in this Agreement, no unilateral fees or additional costs or expenses are to be applied by either party to the other party, including 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.

(q) **Force Majeure.** No party shall be liable or responsible to the other party, nor be deemed to have defaulted under or breached this Agreement, for any failure or delay in fulfilling or performing any term of this Agreement, when and to the extent such failure or delay is caused by or results from acts beyond the affected party's reasonable control, including, without limitation: (a) acts of God; (b) flood, fire, earthquake, or explosion; (c) war, invasion, hostilities (whether war is declared or not), terrorist threats or acts, riot, or other civil unrest; (d) government order or law; (e) embargoes, or blockades in effect on or after the date of this Agreement; (f) action by any governmental authority; (g) national or regional emergency; and (h) strikes, labor stoppages or slowdowns, or other industrial disturbances. The party suffering a force majeure event shall give written notice to the other party, stating the period of time the occurrence is expected to continue and shall use diligent efforts to end the failure or delay and ensure the effects of such force majeure event are minimized.

[SIGNATURES APPEAR ON NEXT PAGE]

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

"LANDLORD"

Danny Harmon and Vonda Harmon,
husband and wife

By: _____
Print Name: Danny Harmon
Date: 4-17-2020

By: _____
Print Name: Vonda Harmon
Date: 4.17.2020

"TENANT"

Uniti Towers LLC

By: _____
Print Name: Ginger Majors
Its: VP Real Estate
Date: 5-4-2020

[ACKNOWLEDGMENTS APPEAR ON NEXT PAGE]

TENANT ACKNOWLEDGMENT

STATE OF ARKANSAS

COUNTY OF PULASKI

On the 4th day of May, 2020, before me personally appeared Ginger Majors, who acknowledged under oath that he/ she is the VP Real Estate of Uniti Towers LLC, the Tenant named in the attached instrument, and as such was authorized to execute this instrument on behalf of the Tenant.

CONSTANCE F. HELMICH
COMM. # 12372328
NOTARY
PUBLIC
MY COMM. EXP. JUL 2, 2029
SALINE COUNTY, ARKANSAS

Constance F. Helmich

Notary Public: Constance F. Helmich

My Commission Expires: 7-2-2029

LANDLORD ACKNOWLEDGMENT

STATE OF Kentucky

COUNTY OF BATH

BE IT REMEMBERED, that on this 17th day of April, 2020 before me, the subscriber, a person authorized to take oaths in the State of Kentucky, personally appeared **Danny Harmon** who, being duly sworn on his oath, deposed and made proof to my satisfaction that he is the person named in the within instrument; and I, having first made known to him the contents thereof, he did acknowledge that he signed, sealed and delivered the same as his voluntary act and deed for the purposes therein contained.

Mary Jane Pettit

Notary Public: Mary Jane Pettit

My Commission Expires: 10/24/23

LANDLORD ACKNOWLEDGMENT

STATE OF Kentucky

COUNTY OF BATH

BE IT REMEMBERED, that on this 17th day of April, 2020 before me, the subscriber, a person authorized to take oaths in the State of Kentucky, personally appeared **Vonda Harmon** who, being duly sworn on her oath, deposed and made proof to my satisfaction that she is the person named in the within instrument; and I, having first made known to her the contents thereof, she did acknowledge that she signed, sealed and delivered the same as her voluntary act and deed for the purposes therein contained.

Mary Jane Pettit

Notary Public Mary Jane Pettit

My Commission Expires: 10/24/23

EXHIBIT 1

DESCRIPTION OF PREMISES

to the Option and Lease Agreement dated May 4, 2020, by and between Danny Harmon and Vonda Harmon, a husband and wife, as Landlord, and Uniti Towers LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

A certain tract or parcel of land located in Bath County, Kentucky on Ramey Road approximately ¾ +/- miles north of Sharpsburg and described as follows:

Commencing at a steel pin set in the right of way of Ramey Road, said pin being approximately 795.0' from the north property line of the parent tract (D.B. 119, Page 44); thence with a new division South 83 degrees 50 minutes 57 seconds West, a distance of 99.58 feet to a steel pin set; South 2 degrees 03 minutes 19 seconds West, a distance of 125.75 feet to a steel pin set; South 82 degrees 17 minutes 08 seconds East, a distance of 124.34 feet to a steel pin set, in the right of way of Ramey Road; thence with said right of way North 7 degrees 19 minutes 55 seconds West, a distance of 154.29 feet to the point of beginning; said described tract containing 0.35 acre, more or less.

The above described property was surveyed by Roberts Surveying, Inc. on January 16, 2006. This is a Class A survey and all pins set are ½" x 18" rebar with ID cap stamped D. Roberts PLS # 3040.

AND BEING the same property conveyed to Danny Harmon and Vonda Harmon from Danny Harmon and Vonda Harmon by Deed of Conveyance dated March 29, 2006 and recorded March 29, 2006 in Deed Book 212, Page 526.

Tax Parcel No. 004-00-00-006.00

The Premises are described and/or depicted as follows:

LEASE AREA

All that tract or parcel of land lying and being in Bath County, Kentucky north of the Town of Sharpsburg, and being a part of the lands of Danny Harmon & Vonda Harmon as recorded in Deed Book 212, Page 526, Bath County records, and being more particularly described as follows:

To find the point of beginning, COMMENCE at a capped iron pin (inscribed "D ROBERTS PLS 3040") found on the west right-of-way line of Ramey Road, said pin having a Kentucky Grid North, NAD83, Single Zone Value of N: 3969955.5343 E: 5444446.9674; thence leaving said right-of-way line running along a tie line, South 04°51'40" West, 291.30 feet to point on the west right-of-way line of Ramey Road having a Kentucky Grid North, NAD83, Single Zone Value of N: 3969665.4183 E: 5444471.6209; thence leaving said right-of-way line, North 80°00'54" West, 94.05 feet to a point; thence, North 85°07'01" West, 127.62 feet to a point; thence, North 68°52'56" West, 226.63 feet to a point; thence, South 85°35'56" West, 51.58 feet to a point; thence, North 80°40'07" West, 41.28 feet to a point; thence, North 61°50'47" West, 42.33 feet to a point; thence, North 81°47'18" West, 45.73 feet to a point; thence, South 89°20'03" West, 123.48 feet to a point; thence, South 85°48'54" West, 51.25 feet to a point; thence, North 89°21'51" West, 252.80 feet to a point; thence, South 85°04'36" West, 141.51 feet to a point; thence, South 83°10'07" West, 333.41 feet to a point; thence, South 02°50'18" West, 125.05 feet to a point on the Lease Area line; thence along said Lease area line, South 89°28'38" East, 50.00 feet a point and the true POINT OF BEGINNING; Thence, South 00°31'22" West, 100.00 feet to a point; Thence, North 89°28'38" West, 100.00 feet to a point; Thence, North 00°31'22" East, 100.00 feet to a point; Thence, South 89°28'38" East, 100.00 feet to a point and the POINT OF BEGINNING.

Bearings are based on Kentucky Grid North, NAD83, Single Zone.

Said tract contains 0.2296 acres (10,000 square feet), more or less, as shown in a survey prepared for Uniti Towers, LLC & Fidelity National Title Insurance Company by POINT TO POINT LAND SURVEYORS, INC. dated January 13, 2020.

30' INGRESS-EGRESS & UTILITY EASEMENT

Together with a 30-foot wide Ingress-Egress and Utility Easement (15 feet each side of centerline) lying and being in Bath County, Kentucky north of the Town of Sharpsburg, and being a part of the lands of Danny Harmon & Vonda Harmon as recorded in Deed Book 212, Page 526, Bath County records, and being more particularly described by the following centerline data:

To find the point of beginning, COMMENCE at a capped iron pin (inscribed "D ROBERTS PLS 3040") found on the west right-of-way line of Ramey Road, said pin having a Kentucky Grid North, NAD83, Single Zone Value of N: 3969955.5343 E: 5444446.9674; thence leaving said right-of-way line running along a tie line, South 04°51'40" West, 291.30 feet to point on the west right-of-way line of Ramey Road and true POINT OF BEGINNING having a Kentucky Grid North, NAD83, Single Zone Value of N: 3969665.4183 E: 5444471.6209; Thence leaving said right-of-way line, North 80°00'54" West, 94.05 feet to a point; Thence, North 85°07'01" West, 127.62 feet to a point; Thence, North 68°52'56" West, 226.63 feet to a point; Thence, South 85°35'56" West, 51.58 feet to a point; Thence, North 80°40'07" West, 41.28 feet to a point; Thence, North 61°50'47" West, 42.33 feet to a point; Thence, North 81°47'18" West, 45.73 feet to a point; Thence, South 89°20'03" West, 123.48 feet to a point; Thence, South 85°48'54" West, 51.25 feet to a point; Thence, North 89°21'51" West, 252.80 feet to a point; Thence, South 85°04'36" West, 141.51 feet to a point; Thence, South 83°10'07" West, 333.41 feet to a point; Thence, South 02°50'18" West, 125.05 feet to a point on the Lease Area line.

Bearings are based on Kentucky Grid North, NAD83, Single Zone.

As shown in a survey prepared for Uniti Towers, LLC & Fidelity National Title Insurance Company by POINT TO POINT LAND SURVEYORS, INC. dated January 13, 2020.

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 GOVERNMENT AUTHORITIES.
3. WIDTH OF ACCESS ROAD SHALL BE THE WIDTH REQUIRED BY THE APPLICABLE GOVERNMENT 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.

PARENT PARCEL

OWNER: DANNY HARMON & VONDA HARMON

SITE ADDRESS: 695 RAMEY RD, SHARPSBURG, KY 40374

PARCEL ID: 004-00-00-005.00

AREA: 110.66 ACRES (PER TAX ASSESSOR)

ZONED: RESIDENTIAL

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS

REFERENCE: DEED BOOK 212 PAGE 526

GPS NOTES

THE FOLLOWING GPS STATISTICS UPON WHICH THIS SURVEY IS BASED HAVE BEEN PRODUCED AT THE 95% CONFIDENCE LEVEL:

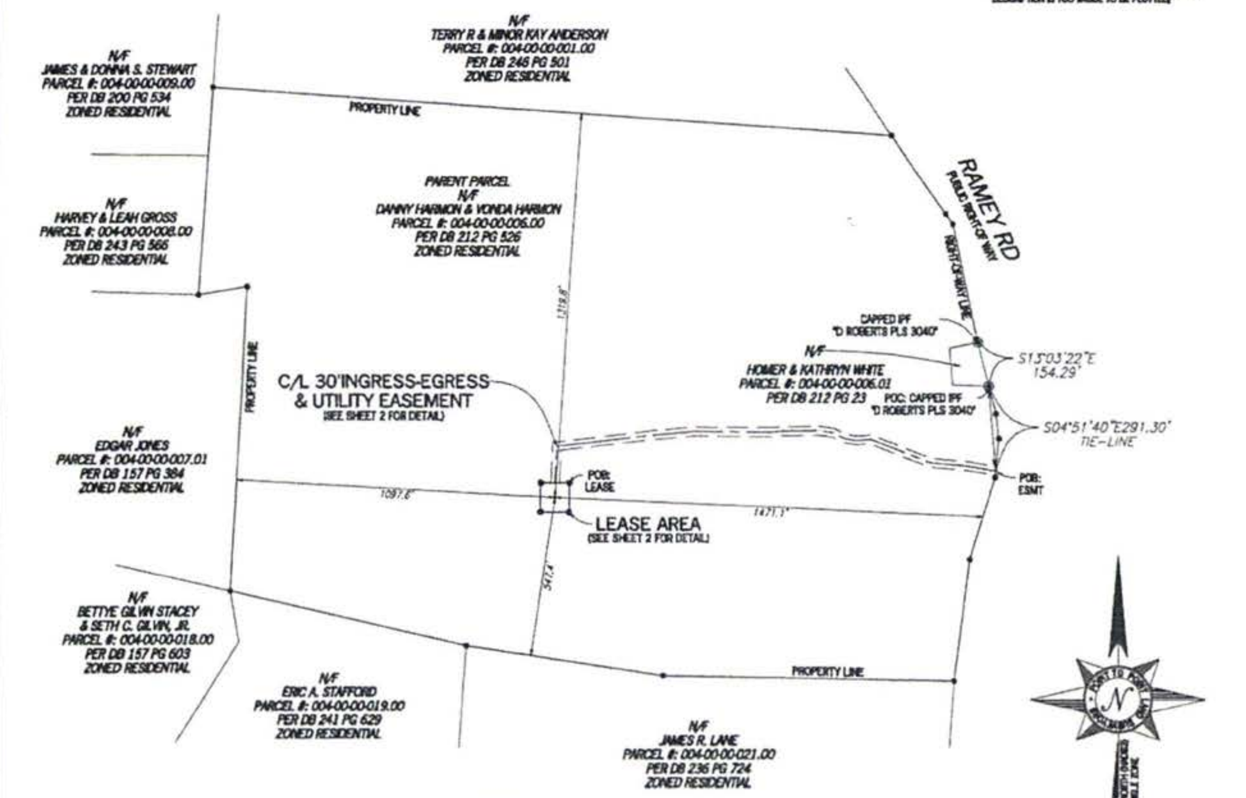
POSITIONAL ACCURACY: 0.01 FEET (HORZ) 0.13 FEET (VERT)
TYPE OF EQUIPMENT: GEOMAX ZENITH35 PRO BASE AND ROVER, DUAL FREQUENCY
TYPE OF GPS FIELD PROCEDURE: ONLINE POSITION USER INTERFACE
DATES OF SURVEY: 12/20/2019
DATUM / EPOCH: NAD_83(2011)(EPOCH:2010.0000)
PUBLISHED / FIXED CONTROL USE: N/A
GEOID MODEL: 18
COMBINED GRID FACTOR(S): 0.99987976 (CENTERED ON THE GPS BASE POINT AS SHOWN HEREON)
CONVERGENCE ANGLE: 1°06'53.64"

TITLE EXCEPTIONS

THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY, ISSUE DATE OF DECEMBER 18, 2019, BEING ORDER NO. 30548176, FOR THE PARENT PARCEL, TO DETERMINE THE IMPACTS OF EXISTING TITLE EXCEPTIONS.

2. EASEMENT AND RIGHT OF WAY AGREEMENT IN FAVOR OF DELTA NATURAL GAS COMPANY, INC., A KENTUCKY CORPORATION SET FORTH IN INSTRUMENT RECORDED ON AUGUST 29, 1990 IN DEED BOOK 164, PAGE 604.

(THIS ITEM MAY AFFECT THE PARENT PARCEL BUT ITS DESCRIPTION IS TOO VAGUE TO BE PLOTTED)



VICINITY MAP

NOT TO SCALE

GENERAL NOTES

* THIS SPECIFIC PURPOSE SURVEY IS FOR THE LEASED PREMISES AND EASEMENTS ONLY. THIS SPECIFIC PURPOSE SURVEY WAS PREPARED FOR THE EXCLUSIVE USE OF UNITI TOWERS, LLC AND FIDELITY NATIONAL TITLE INSURANCE COMPANY AND EXCLUSIVELY FOR THE TRANSFERRAL OF THE PROPOSED LEASED PREMISES AND THE RIGHTS OF EASEMENT SHOWN HEREON AND SHALL NOT BE USED AS AN EXHIBIT OR EVIDENCE IN THE FEE SIMPLE TRANSFERRAL OF THE PARENT PARCEL NOR ANY PORTION OR PORTIONS THEREOF. BOUNDARY INFORMATION SHOWN HEREON HAS BEEN COMPILED FROM TAX MAPS AND DEED DESCRIPTIONS ONLY. NO BOUNDARY SURVEY OF THE PARENT PARCEL WAS PERFORMED.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

THE FIELD DATA UPON WHICH THIS SPECIFIC PURPOSE SURVEY IS BASED HAS A CLOSURE PRECISION OF ONE FOOT IN 10,000+ FEET AND AN ANGULAR ERROR OF 5.0" PER ANGLE POINT AND WAS NOT ADJUSTED FOR CLOSURE.

EQUIPMENT USED FOR ANGULAR & LINEAR MEASUREMENTS: LEICA TPS 1200 ROBOTIC & GEOMAX ZENITH 35. (DATE OF LAST FIELD VISIT: 12/20/2019)

THE 1' CONTOURS AND SPOT ELEVATIONS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE ADJUSTED TO NAVD 88 DATUM (COMPUTED USING GEOID18) AND HAVE A VERTICAL ACCURACY OF ± 0.5'. CONTOURS OUTSIDE THE IMMEDIATE SITE AREA ARE APPROXIMATE.

BEARINGS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE BASED ON GRID NORTH NAD 83 KY SINGLE ZONE.

PER THE FEMA FLOODPLAIN MAPS, THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE X (AREA OF MINIMAL FLOOD HAZARD). COMMUNITY PANEL NO. : 21011C0085C DATED: 12/17/2010

NO WETLAND AREAS HAVE BEEN INVESTIGATED BY THIS SPECIFIC PURPOSE SURVEY.

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS.

ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM ABOVE GROUND FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEES THAT ANY UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN-SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT ANY UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED ANY UNDERGROUND UTILITIES.

SURVEY NOT VALID WITHOUT SHEET 2 & 3 OF 3

SURVEYOR'S CERTIFICATE

I, G. DARRELL TAYLOR, A KENTUCKY PROFESSIONAL LAND SURVEYOR, CERTIFY THAT THE INFORMATION SHOWN HEREON WAS COMPILED USING DATA FROM AN ACTUAL FIELD SURVEY MADE UNDER MY DIRECT SUPERVISION BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION RATIO OF THE TRAVERSE EXCEEDED 1:10,000 AND WAS NOT ADJUSTED FOR CLOSURE. THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR AN URBAN SURVEY AS ESTABLISHED BY THE STATE OF KENTUCKY, PER 201 KAR 18:150 AND IN EFFECT ON THE DATE OF THIS SURVEY.

G. DARRELL TAYLOR, PLS 4179 — 01/13/2020 DATE

LEGEND

N/F	NOW OR FORMERLY
POB	POINT OF BEGINNING
POC	POINT OF COMMENCEMENT
UP	UTILITY POLE
GW	GUY WIRE
TX	TRANSFORMER
IPF	IRON PIN FOUND
SD	SIGHT DISTANCE
TBM	TEMPORARY BENCHMARK

Know what's **below.**
Call before you dig

STATE of KENTUCKY
G. DARRELL TAYLOR
4179
LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION

* SPECIFIC PURPOSE SURVEY PREPARED BY:

POINT TO POINT LAND SURVEYORS
100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com

SPECIFIC PURPOSE SURVEY PREPARED FOR:

Uniti Towers

SHARPSBURG KY

SITE NO.
KYLEX2050
BATH COUNTY, KENTUCKY
NORTH OF THE TOWN OF SHARPSBURG

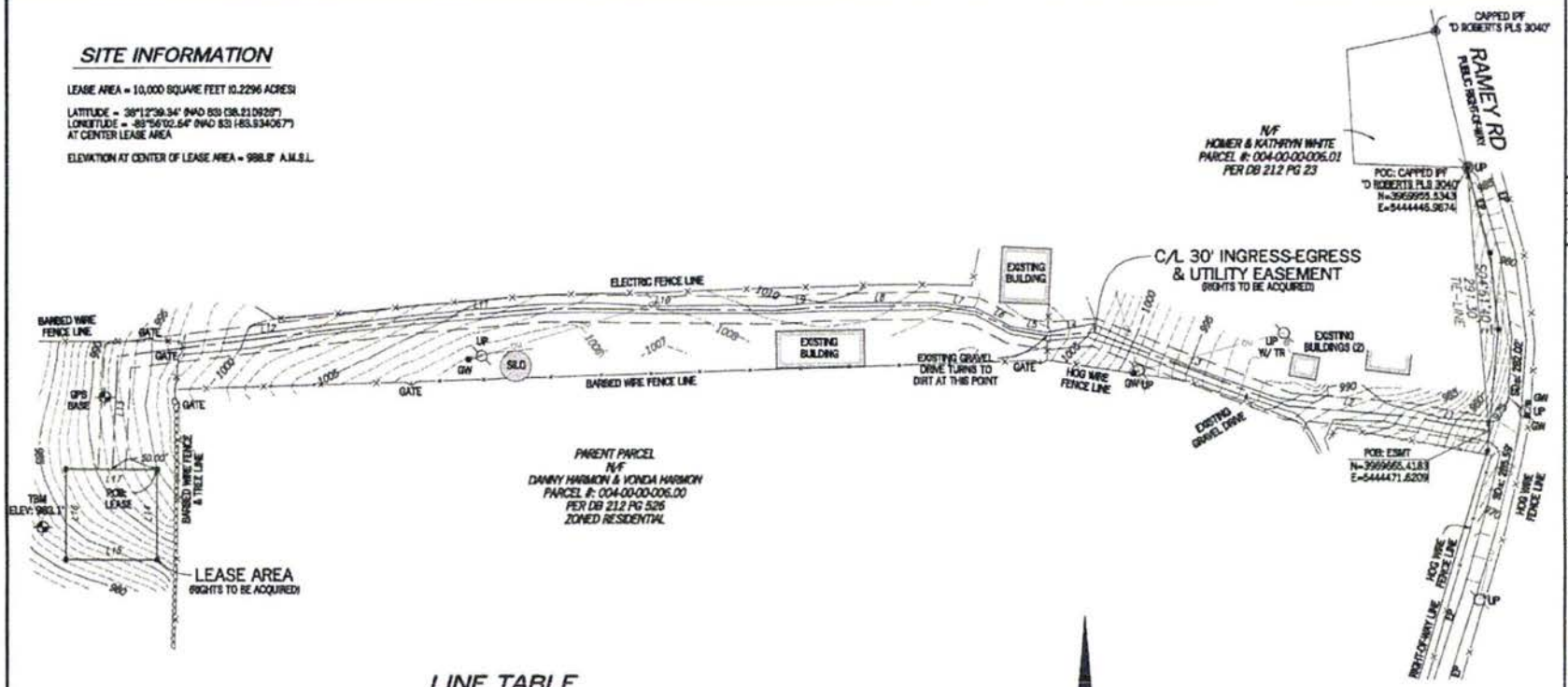
DRAWN BY: RMH	SHEET:
CHECKED BY: JRL	1
APPROVED: D. MILLER	
DATE: JANUARY 13, 2020	
P2P JOB #: 195937KY	OF 3

SITE INFORMATION

LEASE AREA = 10,000 SQUARE FEET (0.2296 ACRES)

LATITUDE = 38°12'39.34" (NAD 83) (38.210928°)
LONGITUDE = -83°56'02.64" (NAD 83) (-83.934067°)
AT CENTER LEASE AREA

ELEVATION AT CENTER OF LEASE AREA = 998.8' A.M.S.L.



LINE TABLE

LINE	BEARING	DISTANCE
L1	N80°00'54"W	94.05'
L2	N85°07'01"W	127.62'
L3	N68°52'56"W	226.63'
L4	S85°35'56"W	51.58'
L5	N80°40'07"W	41.28'
L6	N61°50'47"W	42.33'
L7	N81°47'18"W	45.73'
L8	S89°20'03"W	123.48'
L9	S85°48'54"W	51.25'
L10	N89°21'51"W	252.80'
L11	S85°04'36"W	141.51'
L12	S83°10'07"W	333.41'
L13	S02°50'18"W	125.05'
L14	S00°31'22"W	100.00'
L15	N89°28'38"W	100.00'
L16	N00°31'22"E	100.00'
L17	S89°28'38"E	100.00'

LEGEND

N/F NOW OR FORMERLY
POB POINT OF BEGINNING
POC POINT OF COMMENCEMENT
UP UTILITY POLE
GP GUY WIRE
TR TRANSFORMER
IPF IRON PIN FOUND
ESMT ESMENT
TBM TEMPORARY BENCHMARK

SURVEY NOT VALID WITHOUT SHEET 1 & 3 OF 3

STATE of KENTUCKY
G. DARRELL TAYLOR
4179
LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION

POINT TO POINT LAND SURVEYORS
100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com

* SPECIFIC PURPOSE SURVEY PREPARED BY:

SPECIFIC PURPOSE SURVEY PREPARED FOR:

Uniti Towers

SHARPSBURG KY

SITE NO.
KYLEX2050
BATH COUNTY, KENTUCKY
NORTH OF THE TOWN OF SHARPSBURG

DRAWN BY: RMR
CHECKED BY: JKL
APPROVED: D. MILLER
DATE: JANUARY 13, 2020
P2P JOB #: 195337KY

SHEET: 2 OF 3

LEGAL DESCRIPTION SHEET

LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN BATH COUNTY, KENTUCKY NORTH OF THE TOWN OF SHARPSBURG, AND BEING A PART OF THE LANDS OF DANNY HARMON & VONDA HARMON AS RECORDED IN DEED BOOK 212, PAGE 526, BATH COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED IRON PIN (INSCRIBED 'D ROBERTS PLS 3040') FOUND ON THE WEST RIGHT-OF-WAY LINE OF RAMEY ROAD, SAID PIN HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3969955.5343 E: 5444446.9674; THENCE LEAVING SAID RIGHT-OF-WAY LINE RUNNING ALONG A TIE LINE, SOUTH 04°51'40" WEST, 291.30 FEET TO POINT ON THE WEST RIGHT-OF-WAY LINE OF RAMEY ROAD HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3969665.4183 E: 5444471.6209; THENCE LEAVING SAID RIGHT-OF-WAY LINE, NORTH 80°00'54" WEST, 94.05 FEET TO A POINT; THENCE, NORTH 85°07'01" WEST, 127.62 FEET TO A POINT; THENCE, NORTH 68°52'56" WEST, 225.63 FEET TO A POINT; THENCE, SOUTH 85°35'56" WEST, 51.58 FEET TO A POINT; THENCE, NORTH 80°40'07" WEST, 41.28 FEET TO A POINT; THENCE, NORTH 61°50'47" WEST, 42.33 FEET TO A POINT; THENCE, NORTH 81°47'18" WEST, 45.73 FEET TO A POINT; THENCE, SOUTH 89°20'03" WEST, 123.48 FEET TO A POINT; THENCE, SOUTH 85°48'54" WEST, 51.25 FEET TO A POINT; THENCE, NORTH 89°21'51" WEST, 252.80 FEET TO A POINT; THENCE, SOUTH 85°04'36" WEST, 141.51 FEET TO A POINT; THENCE, SOUTH 83°10'07" WEST, 333.41 FEET TO A POINT; THENCE, SOUTH 02°50'18" WEST, 125.05 FEET TO A POINT ON THE LEASE AREA LINE; THENCE ALONG SAID LEASE AREA LINE, SOUTH 89°28'38" EAST, 50.00 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE, SOUTH 00°31'22" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 89°28'38" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 00°31'22" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 89°28'38" EAST, 100.00 FEET TO A POINT AND THE POINT OF BEGINNING.

BEARINGS ARE BASED ON KENTUCKY GRID NORTH, NAD83, SINGLE ZONE.

SAID TRACT CONTAINS 0.2296 ACRES (10,000 SQUARE FEET), MORE OR LESS.

30' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 30-FOOT WIDE INGRESS-EGRESS AND UTILITY EASEMENT (15 FEET EACH SIDE OF CENTERLINE) LYING AND BEING IN BATH COUNTY, KENTUCKY NORTH OF THE TOWN OF SHARPSBURG, AND BEING A PART OF THE LANDS OF DANNY HARMON & VONDA HARMON AS RECORDED IN DEED BOOK 212, PAGE 526, BATH COUNTY RECORDS, AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED IRON PIN (INSCRIBED 'D ROBERTS PLS 3040') FOUND ON THE WEST RIGHT-OF-WAY LINE OF RAMEY ROAD, SAID PIN HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3969955.5343 E: 5444446.9674; THENCE LEAVING SAID RIGHT-OF-WAY LINE RUNNING ALONG A TIE LINE, SOUTH 04°51'40" WEST, 291.30 FEET TO POINT ON THE WEST RIGHT-OF-WAY LINE OF RAMEY ROAD AND TRUE POINT OF BEGINNING HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3969665.4183 E: 5444471.6209; THENCE LEAVING SAID RIGHT-OF-WAY LINE, NORTH 80°00'54" WEST, 94.05 FEET TO A POINT; THENCE, NORTH 85°07'01" WEST, 127.62 FEET TO A POINT; THENCE, NORTH 68°52'56" WEST, 225.63 FEET TO A POINT; THENCE, SOUTH 85°35'56" WEST, 51.58 FEET TO A POINT; THENCE, NORTH 80°40'07" WEST, 41.28 FEET TO A POINT; THENCE, NORTH 61°50'47" WEST, 42.33 FEET TO A POINT; THENCE, NORTH 81°47'18" WEST, 45.73 FEET TO A POINT; THENCE, SOUTH 89°20'03" WEST, 123.48 FEET TO A POINT; THENCE, SOUTH 85°48'54" WEST, 51.25 FEET TO A POINT; THENCE, NORTH 89°21'51" WEST, 252.80 FEET TO A POINT; THENCE, SOUTH 85°04'36" WEST, 141.51 FEET TO A POINT; THENCE, SOUTH 83°10'07" WEST, 333.41 FEET TO A POINT; THENCE, SOUTH 02°50'18" WEST, 125.05 FEET TO A POINT ON THE LEASE AREA LINE.

BEARINGS ARE BASED ON KENTUCKY GRID NORTH, NAD83, SINGLE ZONE.

PARENT PARCEL

(PER ORDER NO.: 30548176)

PROPERTY LOCATED IN BATH COUNTY, KENTUCKY

ALL THAT CERTAIN REAL ESTATE LYING AND BEING IN BATH COUNTY, KENTUCKY NORTH OF THE TOWN OF SHARPSBURG AND LYING ALONG THE PIKE LEADING FROM SHARPSBURG, KENTUCKY TO EAST UNION AND BOUNDED WITH MORE CERTAINTY, AS FOLLOWS, TO-WIT:

BEGINNING UPON THE CENTER OF THE PIKE A CORNER TO THE TRACT CONVEYED TO J. E. RAMEY; THENCE WITH THE PIKE DIVIDING IT ABOUT EQUALLY S 35 E 5.64 CHAINS S 11 E 7.86 CHAINS S 18 ½ E 2.25 CHAINS S 6 ½ E 1.28 CHAINS S 5 W 2.04 CHAINS S 16 ¾ W 4.45 S 7 ½ W 6.37 CHAINS S 4 W 16.16 CHAINS S ¼ E 1.38 CHAINS TO A POINT A LITTLE TO THE - OF THE CENTER OF THE PIKE A CORNER TO MRS. TURNER, THENCE LEAVING THE PIKE WITH HER LINE N 86 1/8 W 2.65 CHAINS TO A POST AT THE CORNER OF THE FENCE, THENCE S 1 ¼ W 7.01 CHAINS TO A POST CORNER TO SAME AND NEAR THE STABLE, THENCE N 83 ¾ W 15.31 CHAINS TO A POINT UPON THE CENTER OF THE PIKE LEADING FROM SHARPSBURG TO EAST UNION (RATLIFF PIKE); THENCE N 8 ¼ E 13.07 CHAINS TO A SET STONE, THENCE N 86 ½ W 8.87 CHAINS TO A POINT AGAINST THE EAST SIDE OF A LOCUST TREE CORNER TO E. CARTER, THENCE N 4 ¼ E 10.88 CHAINS TO A POINT CORNER TO MRS. CONWAY, THENCE N 77 1/8 W 12.64 CHAINS TO ON ASH TREE CORNER TO MRS. CONWAY AND JESSE HENRY, THENCE N 3 1/8 E 15.84 CHAINS TO ON OAK TREE CORNER TO FRANK HENRY, THENCE S 80 ½ W 2.56 CHAINS TO A POST CORNER TO THOMPSON, THENCE N 4 E 10.80 CHAINS TO A SET STONE IN W. C. HALL'S LINE, A CORNER TO RAMEY TRACT, THENCE WITH THE LINE OF SAME S 85 E 35.38 CHAINS TO THE BEGINNING, CONTAINING ONE HUNDRED AND FIFTY-SIX (156) ACRES AND TWO (2) POLES.

THERE IS EXCLUDED AND NOT HEREBY CONVEYED THAT CERTAIN TRACT OF LAND CONTAINING 46 ACRES, MORE OR LESS, CONVEYED FEBRUARY 27, 1961 FROM ARNOLD GOODPASTER AND GENEVA GOODPASTER, HIS WIFE, TO MRS. FANNIE BROWN, OF RECORD AT DEED BOOK 119, PAGE 39, AT THE OFFICE OF THE BATH COUNTY CLERK.

THERE IS ALSO EXCLUDED AND NOT HEREBY CONVEYED THAT CERTAIN TRACT OF LAND CONVEYED JANUARY 27, 2006 FROM LESLIE RICHARDSON SMITH, AS EXECUTRIX OF THE ESTATE OF ARNOLD GOODPASTER, AS SET OUT IN ARTICLE VIII OF THE LAST WILL AND TESTAMENT OF ARNOLD GOODPASTER. TO KATHRYN WHITE AND HOMER WHITE, WIFE AND HUSBAND, OF RECORD AT DEED BOOK 212, PAGE 23, AT THE OFFICE OF THE BATH COUNTY CLERK AND DESCRIBED AS FOLLOWS:

A CERTAIN TRACT OR PARCEL OF LAND LOCATED IN BATH COUNTY, KENTUCKY ON RAMEY ROAD APPROXIMATELY ¼ +/- MILES NORTH OF SHARPSBURG AND DESCRIBED AS FOLLOWS:

COMMENCING AT A STEEL PIN SET IN THE RIGHT OF WAY OF RAMEY ROAD, SAID PIN BEING APPROXIMATELY 795.0' FROM THE NORTH PROPERTY LINE OF THE PARENT TRACT (D.B. 119, PAGE 44); THENCE WITH A NEW DIVISION SOUTH 83 DEGREES 50 MINUTES 57 SECONDS WEST, A DISTANCE OF 99.58 FEET TO A STEEL PIN SET; SOUTH 2 DEGREES 03 MINUTES 19 SECONDS WEST, A DISTANCE OF 125.75 FEET TO A STEEL PIN SET; SOUTH 82 DEGREES 17 MINUTES 08 SECONDS EAST, A DISTANCE OF 124.34 FEET TO A STEEL PIN SET, IN THE RIGHT OF WAY OF RAMEY ROAD; THENCE WITH SAID RIGHT OF WAY NORTH 7 DEGREES 19 MINUTES 55 SECONDS WEST, A DISTANCE OF 154.29 FEET TO THE POINT OF BEGINNING; SAID DESCRIBED TRACT CONTAINING 0.35 ACRE, MORE OR LESS.

THE ABOVE DESCRIBED PROPERTY WAS SURVEYED BY ROBERTS SURVEYING, INC. ON JANUARY 16, 2006. THIS IS A CLASS A SURVEY AND ALL PINS SET ARE ½" X 18" REBAR WITH ID CAP STAMPED D. ROBERTS PLS # 3040. AND BEING THE SAME PROPERTY CONVEYED TO DANNY HARMON AND VONDA HARMON FROM DANNY HARMON AND VONDA HARMON BY DEED OF CONVEYANCE DATED MARCH 29, 2006 AND RECORDED MARCH 29, 2006 IN DEED BOOK 212, PAGE 526.

TAX PARCEL NO. 004-00-00-006.00

SURVEY NOT VALID WITHOUT SHEET 1 & 2 OF 3

STATE of KENTUCKY
G. DARRELL TAYLOR
4179
LICENSED PROFESSIONAL LAND SURVEYOR

NO.	DATE	REVISION

* SPECIFIC PURPOSE SURVEY PREPARED BY:
POINT TO POINT LAND SURVEYORS
100 Governors Trace, Ste. 103
Peachtree City, GA 30269
(p) 678.565.4440 (f) 678.565.4497
(w) pointtopointsurvey.com

SPECIFIC PURPOSE SURVEY PREPARED FOR:

Uniti Towers

SHARPSBURG KY

SITE NO.
KYLEX2050
BATH COUNTY, KENTUCKY
NORTH OF THE TOWN OF SHARPSBURG

DRAWN BY: RMR
CHECKED BY: JKL
APPROVED: D. MILLER
DATE: JANUARY 13, 2020
P2P JOB #: 19533KY

SHEET: 3 OF 3

Danny and Vonda Harmon
695 Ramey Road
Sharpsburg, KY 40374
Telephone: 606-748-1471

April 13, 2020

Building Staff / Security Staff
Landlord, Lessee, Licensee

Re: Authorized Access granted to UNITI Towers LLC
Dear Building and Security Staff,

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

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

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

Landlord Signature

EXHIBIT J
NOTIFICATION LISTING

Sharpsburg – Notice List

HARMON DANNY & VONDA
695 RAMEY RD
SHARPSBURG, KY 40374

RAMEY FRANCES C
224 WEST MAIN ST
MT STERLING, KY 40353

SWARTZ MOWING INC
P O BOX 124
OLYMPIA, KY 40358

WHITE HOMER & KATHRYN
PO BOX 254
SHARPSBURG, KY 40374

LANE JAMES R
2144 RATLIFF RD
SHARPSBURG, KY 40374

SHARED TOWERS ACQUISITION 2010 DBA SHARED TOWERS ACQU
8051 CONGRESS AVE
BOCA RATON, FL 334871307

STAFFORD ERIC A
646 RATLIFF RD
SHARPSBURG, KY 40374

MYERS BEVERLY
694 RATLIFF RD
SHARPSBURG, KY 40374

GILVIN SETH & BETTY
BOX 129
SHARPSBURG, KY 40374

JONES EDGAR
BOX 174
SHARPSBURG, KY 40374

GROSS HARVEY & LEAH
1176 RATLIFF RD
SHARPSBURG, KY 40374

STEWART JAMES & DONNA S
1396 RATLIFF RD
SHARPSBURG, KY 40374

ANDERSON TERRY R & MINOR KAY
1475 RAMEY RD
SHARPSBURG, KY 40374

HARMON JEREMY
937 RAMEY RD
SHARPSBURG, KY 40374

EXHIBIT K
COPY OF PROPERTY OWNER NOTIFICATION

PIKE LEGAL

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: Sharpsburg

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 635 Ramey Road, Sharpsburg, KY 40374 (E-911) / 695 Ramey Road, Sharpsburg, KY 40374 (PARCEL) (38° 12' 39.34" North latitude, 83° 56' 02.64" West longitude). The proposed facility will include a 255-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 267-feet, plus 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 2021-00092 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 toll free at (800) 516-4293 if you have any comments or questions about this proposal.

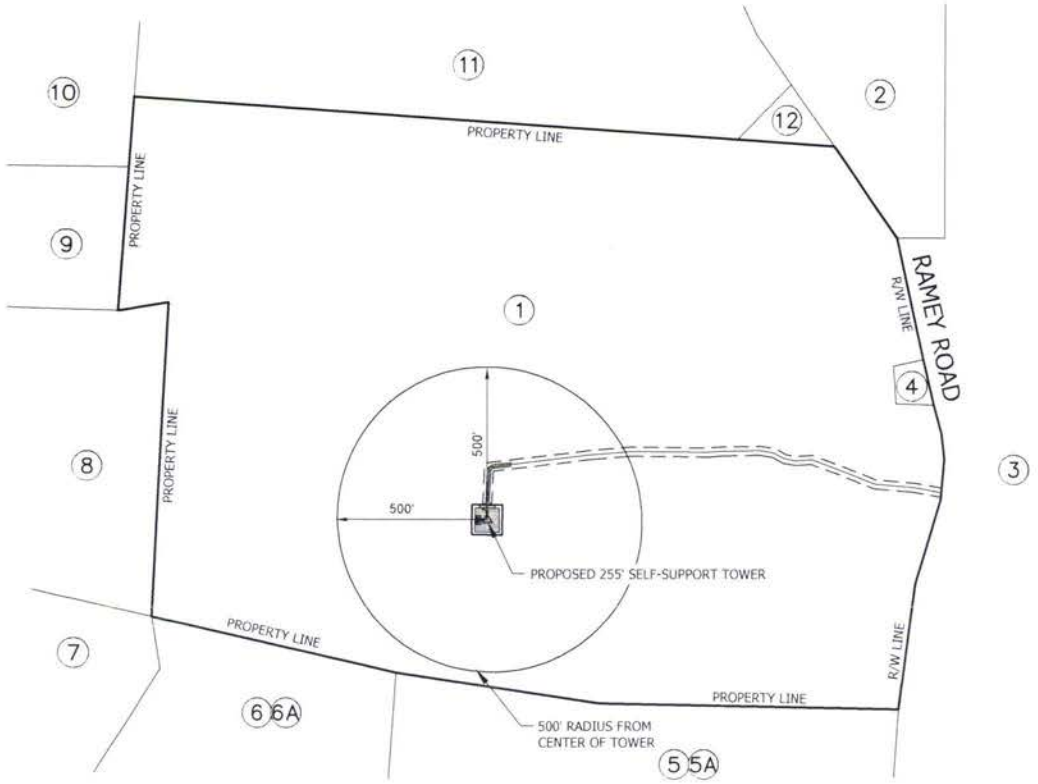
Sincerely,
David A. Pike
Attorney for Applicants

enclosures

Driving Directions to Proposed Tower Site

1. Beginning at the Bath County Judge Executive's Office, located at 19 E. Main Street Owingsville, KY 40360, head east (toward N. Court Street / Johnstan Street) on E. Main Street and travel approximately 0.1 miles.
2. Turn left onto Suddith Street and travel approximately 0.2 miles.
3. Follow Suddith Street as it turns right and becomes E. High Street and travel approximately 0.1 miles.
4. Turn left onto KY-36 W and travel approximately 10.9 miles.
5. Turn left onto KY-11 and travel approximately 0.5 miles.
6. Turn right onto Ramey Road and travel approximately 0.6 miles.
7. The site is located on the left at 695 Ramey Road, Sharpsburg, KY 40374. The site address is: 635 Ramey Road, Sharpsburg, KY 40374.
8. The site coordinates are:
    a. North 38 deg 12 min 39.34 sec
    b. West 83 deg 56 min 02.64 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



#	OWNER	ADDRESS	PID	REF
1	DANNY & VONDA HARMON	695 RAMEY RD SHARPSBURG, KY 40374	004-00-00-006.00	DB 212 PG 526
2	FRANCIS C. RAMEY	224 WEST MAIN ST MT STERLING, KY 40353	004-00-00-002.00	-
3	SWARTZ MOWING INC	P.O. BOX 124 OLYMPIA, KY 40358	004-00-00-004.00	-
4	HOMER & KATHRYN WHITE	P.O. BOX 254 SHARPSBURG, KY 40374	004-00-00-006.01	DB 212 PG 23
5	JAMES R. LANE	2144 RATLIFF ROAD SHARPSBURG, KY 40374	004-00-00-021.00	DB 236 PG 724
5A	SHARED TOWERS ACQUISITION 2010 DBA SHARED TOWERS ACQU	8051 CONGRESS AVE, BOCA RATON , FL 33487-1307	004-00-00-021. 00L_1	DB 236 PG 724
6	ERIC A STAFFORD	646 RATLIFF ROAD SHARPSBURG, KY 40374	004-00-00-019.00	DB 241 PG 629
6A	BEVERLY MEYERS	694 RATLIFF ROAD SHARPSBURG, KY 40374	004-00-00-019. 00L_1	-
7	BETTY & SETH GILVIN	P.O. BOX 129 SHARPSBURG, KY 40374	004-00-00-018.00	DB 157 PG 603
8	EDGAR JONES	P.O. BOX 174 SHARPSBURG, KY 40374	004-00-00-007.01	DB 157 PG 384
9	HARVEY & LEAH GROSS	1176 RATLIFF ROAD SHARPSBURG, KY 40374	004-00-00-008.00	DB 243 PG 566
10	JAMES & DONNA STEWART	1396 RATLIFF ROAD SHARPSBURG, KY 40374	004-00-00-009.00	DB 200 PG 534
11	TERRY & KAY ANDERSON	1475 RAMEY ROAD SHARPSBURG, KY 40374	004-00-00-001.00	DB 246 PG 501
12	JEREMY HARMON	937 RAMEY ROAD SHARPSBURG, KY 40374	004-00-00-002.02	-

NOTE:

1. SEE SHT. C-1.0 FOR INFORMATION ON PROPERTY #1.
2. SEE SHT C-1.0 FOR STRUCTURE INFORMATION WITHIN 500' OF PROPOSED TOWER.
3. PVA INFORMATION WAS OBTAINED ON 7/17/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
4. THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
5. NOT FOR RECORDING OR PROPERTY TRANSFER.

1 OVERALL ADJOINER'S DRAWING
SCALE: 0' 200' 400' 600' 800' 1"=400'

N

CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!

B&T GRP

at&t mobility corp

HARMONI

HARMONY TOWERS
SHARPSBURG KY
FA# 15147587
PACE# MRSNK047531
PT# 10153676
(PROPERTY) 695 RAMEY ROAD
(911) 695 RAMEY ROAD
SHARPSBURG, KY 40374
BATH COUNTY
PROPOSED 255' SELF SUPPORT TOWER

PROJECT NO:	G01C360100
CHECKED BY:	DLS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	08/24/20	DLS	REVIEW
B	10/15/20	MAG	REVIEW
0	10/28/20	DLS	FINAL

B&T ENGINEERING, INC.
E-1403
Expires 12/31/20

STATE OF KENTUCKY
BRAD P. MILANOWSKI
25311
LICENSED PROFESSIONAL ENGINEER
10/28/20

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

OVERALL ADJOINER'S DRAWING

SHEET NUMBER:
C-1.1

EXHIBIT L
COPY OF COUNTY JUDGE/EXECUTIVE NOTICE

PIKE LEGAL

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

Bobby C. Rogers
County Judge Executive
P.O. Box 39
19 E. Main Street
Owingsville, KY 40360

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2021-00092
Site Name: Sharpsburg

Dear Judge/Executive:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 635 Ramey Road, Sharpsburg, KY 40374 (E-911) / 695 Ramey Road, Sharpsburg, KY 40374 (PARCEL) (38° 12' 39.34" North latitude, 83° 56' 02.64" West longitude). The proposed facility will include a 255-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 267-feet, plus 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 2021-00092 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 Applicants
enclosures

Driving Directions to Proposed Tower Site

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8. The site coordinates are:
    a. North 38 deg 12 min 39.34 sec
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Prepared by:
Chris Shouse
Pike Legal Group
1578 Highway 44 East, Suite 6
P.O. Box 396
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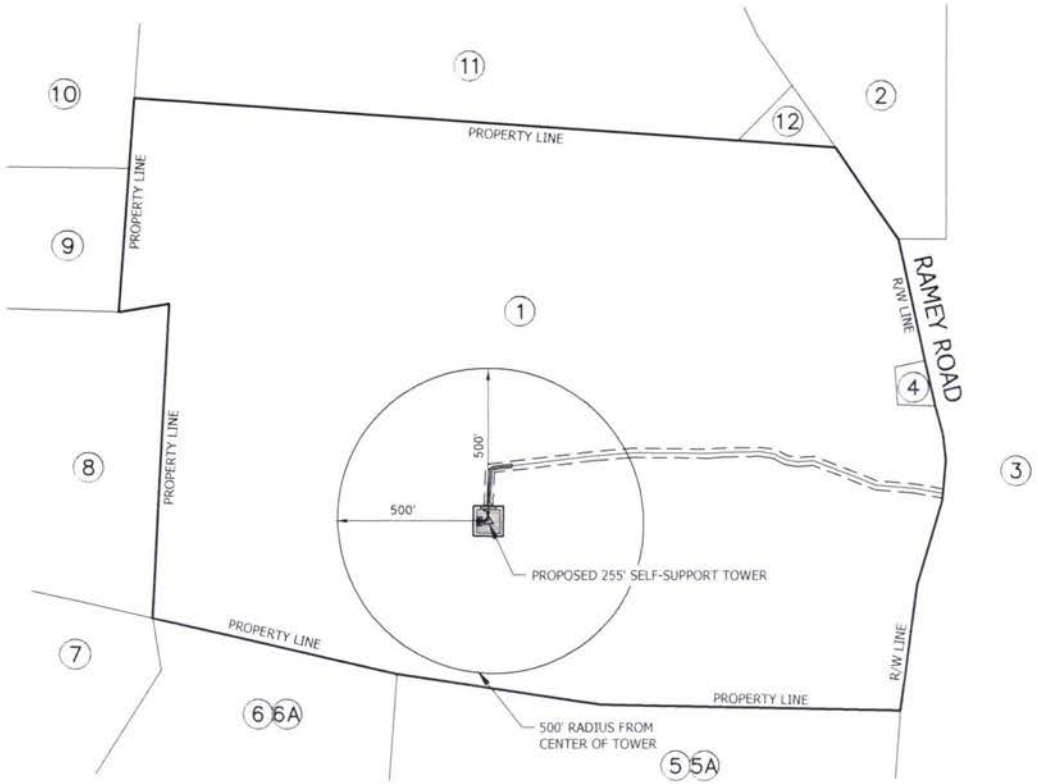
Telephone: 502-955-4400 or 800-516-4293



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N

CALL KENTUCKY ONE CALL
(800) 752-6007
CALL 3 WORKING DAYS
BEFORE YOU DIG!

B&T GRP

at&t

HARMONI TOWERS

HARMONI TOWERS
SHARPSBURG KY
FA# 15147587
PACE # MRTNS047531
PTI # 10153676
(PROPERTY) 695 RAMEY ROAD
(911) 695 RAMEY ROAD
SHARPSBURG, KY 40374
BATH COUNTY
PROPOSED 255' SELF-SUPPORT TOWER

PROJECT NO:	0015-16100
CHECKED BY:	DLS

ISSUED FOR

REV	DATE	DRWN	DESCRIPTION
A	08/24/20	DLS	REVIEW
B	10/15/20	MAS	REVIEW
0	10/28/20	DLS	FINAL

B&T ENGINEERING, INC.
E-1403
Expires 12/31/20

STATE OF KENTUCKY
BRAD P. MILANOWSKI
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LICENSED PROFESSIONAL ENGINEER
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OVERALL ADJOINER'S DRAWING

SHEET NUMBER:
C-1.1

EXHIBIT M
COPY OF POSTED NOTICES
AND NEWSPAPER NOTICE ADVERTISEMENT

SITE NAME: SHARPSBURG
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 and Uniti Towers LLC, a Delaware limited liability company propose 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 2021-00092 in your correspondence.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company propose 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 2021-00092 in your correspondence.

PIKE LEGAL

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: (606) 674-9994
VIA EMAIL: cecil@kynewsgroup.com

Bath County News Outlook
81A Water Street
Owingsville, KY 40360

RE: Legal Notice Advertisement
Site Name: Sharpsburg

Dear Bath County News Outlook:

Please publish the following legal notice advertisement in the next edition of *The Bath County News Outlook*:

NOTICE

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on 635 Ramey Road, Sharpsburg, KY 40374 (E-911) / 695 Ramey Road, Sharpsburg, KY 40374 (PARCEL) (38° 12' 39.34" North latitude, 83° 56' 02.64" 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 2021-00092 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


Bath County
Ratliff Road
Dusty Road
Ramey Road
Ratliff Road
Old Route 11
KY 36
KY 11
Main Street
Sharpsburg
Back Street
Main Street
Montgomery Street
Forest Drive
KY 11
KY 1198
Rich-Lan Road
Old Route 11
West Tunnel Hill Road
300 m
1000 ft