

**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.: 2021-00049
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF ADAIR)

SITE NAME: WEED RELO / EDMONTON

* * * * *

**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 7481 Edmonton Road, Columbia, KY 42728 (37° 02' 41.72" North latitude, 85° 27' 27.50" 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 Glen Wilham and Cindi Alexander pursuant to a deed recorded at Deed Book 312, Page 357 in the office of the County Clerk. The proposed WCF will consist of a 202-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 212-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,

A handwritten signature in blue ink that reads "David A. Pike". The signature is written in a cursive style and is positioned above a horizontal line.

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
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
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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: [Signature] Keith Harvey, VP - Deputy General Counsel 12/30/2016
Printed Name & Title Date

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

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

(CW15)

Delaware

Page 1

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

Handwritten signature of Jeffrey W. Bullock in black ink, written over a horizontal line. Below the line, the text "Jeffrey W. Bullock, Secretary of State" is printed in a small font.

Authentication: 203613650

Date: 12-30-16

REFERENCE COPY

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



**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

Call Sign KNKN666	File Number
Radio Service CL - Cellular	
Market Numer CMA447	Channel Block A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003291192

Market Name Kentucky 5 - Barren

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

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	37-10-00.0 N	085-18-37.0 W	282.5	291.4	1062332

Address: 1210 Cane Valley Road (94238)

City: Columbia County: ADAIR 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)	180.300	151.200	132.800	140.500	155.800	172.800	186.200	183.500
Transmitting ERP (watts)	250.037	98.154	10.266	2.559	0.527	0.738	12.510	102.333

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)	180.300	151.200	132.800	140.500	155.800	172.800	186.200	183.500
Transmitting ERP (watts)	1.408	30.262	153.476	217.337	49.025	5.207	1.772	0.660

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)	180.300	151.200	132.800	140.500	155.800	172.800	186.200	183.500
Transmitting ERP (watts)	2.948	0.454	0.942	4.366	59.310	210.546	155.347	22.706

Conditions:

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	36-43-12.0 N	084-28-13.0 W	409.3	91.1	1042231

Address: 100 Manor Circle (94260)

City: Whitley City County: MCCREARY 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)	123.400	147.100	135.800	109.800	103.700	143.600	127.300	165.300
Transmitting ERP (watts)	244.175	220.925	36.790	4.400	1.072	1.113	3.637	56.485

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)	123.400	147.100	135.800	109.800	103.700	143.600	127.300	165.300
Transmitting ERP (watts)	2.526	8.109	37.053	64.172	73.466	23.019	4.143	0.935

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)	123.400	147.100	135.800	109.800	103.700	143.600	127.300	165.300
Transmitting ERP (watts)	13.438	3.125	0.649	0.912	15.291	122.113	297.793	117.856

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	36-56-36.9 N	086-00-52.2 W	218.8	91.1	1063506

Address: 638 GRAHAM ROAD (87368)

City: GLASGOW County: BARREN 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)	76.900	78.700	69.100	74.800	91.600	116.000	101.800	89.500
Transmitting ERP (watts)	138.618	59.574	7.477	1.200	0.283	0.661	10.185	66.521

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)	76.900	78.700	69.100	74.800	91.600	116.000	101.800	89.500
Transmitting ERP (watts)	2.142	19.146	94.547	124.562	33.322	3.559	0.817	0.257

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)	76.900	78.700	69.100	74.800	91.600	116.000	101.800	89.500
Transmitting ERP (watts)	2.434	0.360	0.244	4.119	40.205	121.384	90.927	17.264

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	36-48-31.1 N	084-50-43.5 W	466.6	61.0	1004214

Address: 6565 MORRIS HILL ROAD (87856)
City: MONTICELLO County: WAYNE 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)	216.900	160.100	180.400	174.000	158.000	164.800	204.700	214.300
Transmitting ERP (watts)	159.083	70.430	5.874	0.769	0.334	0.371	9.558	76.538

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)	216.900	160.100	180.400	174.000	158.000	164.800	204.700	214.300
Transmitting ERP (watts)	1.547	33.128	166.094	241.154	55.397	5.855	1.952	0.731

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)	216.900	160.100	180.400	174.000	158.000	164.800	204.700	214.300
Transmitting ERP (watts)	1.611	0.321	0.293	4.972	42.968	145.725	111.912	13.218

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	36-53-52.1 N	084-47-02.5 W	353.6	94.2	1238700

Address: ROUTE 5, BOX 9516 (87058)
City: Monticello County: WAYNE State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.300	160.500	119.100	104.500	62.300	124.200	155.000	148.700
Transmitting ERP (watts)	151.264	65.591	5.815	0.740	0.328	0.344	9.075	72.988

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.300	160.500	119.100	104.500	62.300	124.200	155.000	148.700
Transmitting ERP (watts)	2.029	20.018	108.704	142.806	33.266	2.825	0.395	0.478

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	153.300	160.500	119.100	104.500	62.300	124.200	155.000	148.700
Transmitting ERP (watts)	1.536	0.299	0.287	4.752	41.633	135.419	106.546	12.709

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
20	37-05-19.7 N	084-54-47.3 W	331.6	106.4	1232264

Address: 1101 PINE TOP ROAD (86918)

City: RUSSELL SPRINGS County: RUSSELL 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)	118.700	77.600	105.400	136.900	148.600	127.700	120.400	134.300
Transmitting ERP (watts)	106.145	47.603	4.827	0.278	0.215	0.233	6.909	51.527

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)	118.700	77.600	105.400	136.900	148.600	127.700	120.400	134.300
Transmitting ERP (watts)	2.313	23.146	119.606	157.272	35.853	3.353	0.454	0.536

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)	118.700	77.600	105.400	136.900	148.600	127.700	120.400	134.300
Transmitting ERP (watts)	1.748	0.347	0.313	5.295	45.951	158.160	122.299	14.137

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	36-45-21.5 N	085-03-35.7 W	353.6	78.6	1258266

Address: RR BOX 200 STATE ROUTE 90 (97275)

City: Albany County: CLINTON 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)	159.200	140.400	108.000	36.100	88.900	81.600	132.000	170.300
Transmitting ERP (watts)	61.485	218.225	164.915	26.293	2.922	0.471	0.954	4.500

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)	159.200	140.400	108.000	36.100	88.900	81.600	132.000	170.300
Transmitting ERP (watts)	1.000	4.591	60.220	229.906	159.544	23.590	2.912	0.466

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)	159.200	140.400	108.000	36.100	88.900	81.600	132.000	170.300
Transmitting ERP (watts)	7.041	2.307	0.511	1.072	23.419	142.307	232.641	64.969

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	36-44-36.2 N	085-08-34.1 W	350.5	78.0	1258265

Address: 127 North Cross (Route 6 Box 991) (94257)

City: Albany County: CLINTON 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)	181.800	142.800	72.800	100.300	157.000	167.400	157.200	193.400
Transmitting ERP (watts)	31.597	145.107	168.768	30.884	3.418	1.072	0.669	1.670

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)	181.800	142.800	72.800	100.300	157.000	167.400	157.200	193.400
Transmitting ERP (watts)	1.105	1.668	14.838	36.641	44.724	30.421	5.045	2.474

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)	181.800	142.800	72.800	100.300	157.000	167.400	157.200	193.400
Transmitting ERP (watts)	40.424	4.384	1.518	0.529	1.123	24.617	125.244	176.237

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	37-18-17.2 N	085-55-38.3 W	285.3	99.1	1200030

Address: 824 I CHILDRESS ROAD (37618)

City: Munfordville County: HART State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.000	120.900	185.100	176.500	166.200	156.000	134.000	170.100
Transmitting ERP (watts)	87.882	116.157	30.423	3.076	0.288	0.394	1.136	15.107

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.000	120.900	185.100	176.500	166.200	156.000	134.000	170.100
Transmitting ERP (watts)	0.236	4.016	34.037	111.204	87.767	11.936	0.954	0.231

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	137.000	120.900	185.100	176.500	166.200	156.000	134.000	170.100
Transmitting ERP (watts)	0.893	0.228	0.217	2.143	29.130	110.300	94.526	17.072

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
27	36-41-54.0 N	085-41-07.0 W	286.5	90.2	1065560

Address: 403 MARTIN SUBDIVISION (87881)
City: TOMPKINSVILLE County: MONROE 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)	69.700	75.300	146.800	80.100	75.200	103.200	86.800	75.200
Transmitting ERP (watts)	271.841	109.386	7.417	0.800	0.553	0.537	18.630	138.505

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)	69.700	75.300	146.800	80.100	75.200	103.200	86.800	75.200
Transmitting ERP (watts)	1.721	17.109	89.000	121.386	26.164	2.348	0.328	0.400

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)	69.700	75.300	146.800	80.100	75.200	103.200	86.800	75.200
Transmitting ERP (watts)	1.247	0.244	0.229	4.118	34.693	116.367	90.021	10.295

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
28	37-21-17.2 N	085-52-24.7 W	352.0	83.8	1220496

Address: 2830 Frenchman's Knob Road (94236)
City: Bonnieville County: HART 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)	193.700	191.000	195.200	238.600	217.000	184.800	226.800	216.700
Transmitting ERP (watts)	184.924	99.849	11.423	0.450	0.602	0.510	8.026	87.512

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)	193.700	191.000	195.200	238.600	217.000	184.800	226.800	216.700
Transmitting ERP (watts)	2.115	37.767	246.087	328.098	100.148	5.709	0.676	0.788

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)	193.700	191.000	195.200	238.600	217.000	184.800	226.800	216.700
Transmitting ERP (watts)	1.310	0.350	0.339	3.061	46.385	170.557	144.024	26.849

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
32	37-04-19.5 N	084-59-59.4 W	317.0	78.0	1257488

Address: 227 Horn Rd (94247)

City: Russell Springs County: RUSSELL State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.200	77.200	79.700	105.800	146.300	99.500	80.900	89.500
Transmitting ERP (watts)	221.223	212.121	177.242	71.356	77.801	28.148	33.937	155.008

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.200	77.200	79.700	105.800	146.300	99.500	80.900	89.500
Transmitting ERP (watts)	18.208	41.435	173.839	236.936	272.788	110.954	36.898	14.156

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.200	77.200	79.700	105.800	146.300	99.500	80.900	89.500
Transmitting ERP (watts)	68.660	39.848	0.532	12.732	74.296	228.506	206.369	227.920

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
33	36-50-28.6 N	086-02-47.1 W	225.9	60.7	

Address: Austin Tracy Rd (115120)

City: Lucas County: BARREN 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)	91.800	79.300	63.800	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	79.481	128.527	48.267	34.537	0.275	16.613	58.629	118.330

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.800	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	16.424	105.957	212.448	227.867	141.232	41.336	29.497	11.208

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.800	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	3.736	0.847	2.276	7.728	35.347	59.316	65.492	20.964

Antenna: 4

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.700	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	80.215	129.717	48.867	34.856	0.278	16.767	59.174	119.427

Antenna: 5

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.700	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	16.576	106.934	215.086	229.984	142.541	41.717	29.770	11.312

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
33	36-50-28.6 N	086-02-47.1 W	225.9	60.7	

Address: Austin Tracy Rd (115120)

City: Lucas County: BARREN State: KY Construction Deadline:

Antenna: 6

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	91.800	79.300	63.700	43.400	95.100	66.500	80.300	112.900
Transmitting ERP (watts)	3.770	0.854	2.304	7.800	35.674	59.863	66.098	21.158

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
34	36-46-44.5 N	084-56-33.7 W	396.2	78.0	1258267

Address: 9096 W. Hwy 90 (94262)

City: Monticello County: WAYNE 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)	194.500	173.000	138.200	103.300	102.200	140.500	166.900	201.300
Transmitting ERP (watts)	147.841	143.877	130.052	39.637	24.482	1.946	8.038	54.683

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)	194.500	173.000	138.200	103.300	102.200	140.500	166.900	201.300
Transmitting ERP (watts)	0.742	5.202	57.406	186.618	115.460	13.939	2.131	0.396

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)	194.500	173.000	138.200	103.300	102.200	140.500	166.900	201.300
Transmitting ERP (watts)	27.223	19.327	10.778	15.109	86.367	155.385	168.892	88.819

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	36-39-45.3 N	084-26-36.2 W	428.2	79.9	1275397

Address: 6135 Hwy 1651 (115765)

City: Pine Knot County: MCCREARY State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.500	143.700	119.600	95.500	88.700	114.200	161.300	166.800
Transmitting ERP (watts)	69.450	261.545	232.470	44.008	2.017	0.559	0.530	4.304

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.500	143.700	119.600	95.500	88.700	114.200	161.300	166.800
Transmitting ERP (watts)	0.210	0.184	2.662	25.143	50.189	30.009	3.791	0.206

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
35	36-39-45.3 N	084-26-36.2 W	428.2	79.9	1275397

Address: 6135 Hwy 1651 (115765)

City: Pine Knot County: MCCREARY State: KY Construction Deadline:

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	132.500	143.700	119.600	95.500	88.700	114.200	161.300	166.800
Transmitting ERP (watts)	113.680	6.615	0.792	0.868	2.269	39.368	258.605	358.864

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
36	36-50-27.1 N	084-28-44.2 W	425.5	79.6	1233359

Address: 165 HWY 90 (114139)

City: Parkers Lake County: MCCREARY 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)	185.500	163.600	170.800	152.900	106.200	178.000	165.700	183.000
Transmitting ERP (watts)	23.185	14.817	1.670	0.153	0.104	0.150	1.655	13.513

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)	185.500	163.600	170.800	152.900	106.200	178.000	165.700	183.000
Transmitting ERP (watts)	2.683	26.605	140.903	189.301	44.170	3.813	0.542	0.629

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)	185.500	163.600	170.800	152.900	106.200	178.000	165.700	183.000
Transmitting ERP (watts)	2.063	0.405	0.373	6.243	54.676	179.706	144.196	16.857

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
37	36-41-51.7 N	085-07-19.1 W	303.9	78.0	1273817

Address: 399 Daylton Road (112920)

City: Albany County: CLINTON 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)	103.500	53.600	30.000	64.200	100.300	112.300	94.400	76.300
Transmitting ERP (watts)	255.895	112.531	6.303	1.065	0.524	0.886	15.778	134.111

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)	103.500	53.600	30.000	64.200	100.300	112.300	94.400	76.300
Transmitting ERP (watts)	1.151	13.278	68.092	80.326	20.259	1.984	0.205	0.284

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number:

Print Date:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
37	36-41-51.7 N	085-07-19.1 W	303.9	78.0	1273817

Address: 399 Daylton Road (112920)

City: Albany County: CLINTON State: KY Construction Deadline:

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)	103.500	53.600	30.000	64.200	100.300	112.300	94.400	76.300
Transmitting ERP (watts)	0.327	0.106	0.101	1.174	12.741	41.443	34.130	5.644

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
38	36-44-13.0 N	085-42-10.0 W	309.7	91.1	1042225

Address: 3151 EDMONTON ROAD (94259)

City: TOMPKINSVILLE County: MONROE 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)	111.100	109.700	147.100	108.800	126.000	145.900	125.000	125.900
Transmitting ERP (watts)	189.524	72.806	7.444	1.950	0.393	0.557	9.583	77.626

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)	111.100	109.700	147.100	108.800	126.000	145.900	125.000	125.900
Transmitting ERP (watts)	1.067	23.007	114.837	166.790	36.523	3.864	1.339	0.493

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)	111.100	109.700	147.100	108.800	126.000	145.900	125.000	125.900
Transmitting ERP (watts)	2.199	0.335	0.702	3.359	45.136	159.373	117.688	16.866

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
39	36-38-51.6 N	085-17-33.1 W	317.0	60.7	

Address: 5163 State Park (117828)

City: Cumberland County: CUMBERLAND 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)	100.500	86.500	93.600	115.600	123.000	167.100	133.100	121.800
Transmitting ERP (watts)	24.683	224.514	184.090	16.413	0.520	0.462	0.466	0.469

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)	100.500	86.500	93.600	115.600	123.000	167.100	133.100	121.800
Transmitting ERP (watts)	46.321	0.611	0.527	0.529	0.541	7.711	140.237	265.546

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
40	37-11-42.5 N	085-57-13.0 W	267.6	99.1	1224165

Address: 1515 FISHER RIDGE ROAD (37620)

City: Horse Cave County: HART 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)	148.700	170.000	148.400	148.400	138.900	116.100	137.500	147.400
Transmitting ERP (watts)	96.574	101.465	19.855	1.861	0.214	0.322	2.056	21.126

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	148.700	170.000	148.400	148.400	138.900	116.100	137.500	147.400
Transmitting ERP (watts)	8.514	101.153	307.468	229.726	25.253	1.925	0.630	0.630

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)	148.700	170.000	148.400	148.400	138.900	116.100	137.500	147.400
Transmitting ERP (watts)	0.226	0.222	3.795	33.295	109.116	83.424	11.320	0.928

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
41	37-01-03.9 N	085-54-42.3 W	254.8	68.6	1230168

Address: 170 Robert Bishop Lane (94244)

City: Glasgow County: BARREN State: KY Construction Deadline:

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.000	83.300	56.400	66.300	91.100	106.300	92.700	90.500
Transmitting ERP (watts)	104.518	139.218	43.033	2.862	0.290	0.325	1.008	15.797

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.000	83.300	56.400	66.300	91.100	106.300	92.700	90.500
Transmitting ERP (watts)	0.395	3.203	50.041	189.424	165.261	28.863	1.290	0.398

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.000	83.300	56.400	66.300	91.100	106.300	92.700	90.500
Transmitting ERP (watts)	11.785	0.490	0.619	0.543	8.652	98.226	207.121	111.304

Control Points:

Control Pt. No. 1

Address: 124 South Keeneland Drive (Suite 103)

City: RICHMOND County: MADISON State: KY Telephone Number: (859)544-4804

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN666

File Number:

Print Date:

Waivers/Conditions:

NONE

REFERENCE COPY

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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

Call Sign KNLG209	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

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

Waivers/Conditions:

NONE

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNLG209

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

Call Sign WPOI255	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 05-27-2015	Effective Date 03-12-2020	Expiration Date 06-23-2025	Print Date
Market Number MTA026	Channel Block A	Sub-Market Designator 19	
Market Name Louisville-Lexington-Evansville			
1st Build-out Date 06-23-2000	2nd Build-out Date 06-23-2005	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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.

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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
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**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., 21ST FL
DALLAS, TX 75202

Call Sign WQD1528	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 08-17-2015	Effective Date 12-11-2019	Expiration Date 09-06-2025	Print Date
Market Number BTA263	Channel Block C	Sub-Market Designator 7	
Market Name Louisville, KY			
1st Build-out Date 09-06-2010	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

Conditions:

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

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQDI528

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

Call Sign WQFA869	File Number
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date 04-11-2017	Effective Date 08-31-2018	Expiration Date 04-28-2027	Print Date
Market Number BTA263	Channel Block E	Sub-Market Designator 4	
Market Name Louisville, KY			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

NONE

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

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Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQFA869

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

Call Sign WQGA818	File Number
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date 11-29-2006	Effective Date 08-31-2018	Expiration Date 11-29-2021	Print Date
Market Number CMA447	Channel Block A	Sub-Market Designator 0	
Market Name Kentucky 5 - Barren			
1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGA818

File Number:

Print Date:

700 MHz Relicensed Area Information:

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

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

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

FCC Registration Number (FRN): 0003291192

Grant Date 12-18-2006	Effective Date 08-31-2018	Expiration Date 12-18-2021	Print Date
Market Number BEA047	Channel Block C	Sub-Market Designator 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
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EXHIBIT B

SITE DEVELOPMENT PLAN:

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

FA NUMBER: 15145567 / SITE ID: KYBGN2026

PACE #: MRTNK047955

PROJECT TRACKING #: 10115703

SITE NAME: EDMONTON ROAD

7481 EDMONTON ROAD
COLUMBIA, KY 42728
ADAIR COUNTY

PROPOSED 200' SELF-SUPPORT TOWER



at&t
mobility corp.

HARMONI TOWERS



HARMONI TOWERS

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.

ZONING DRAWINGS

PROJECT SUMMARY

SITE NAME: EDMONTON ROAD
 SITE NUMBER: FA 15145567
 TAX MAP PROPERTY ID: 014-00-00-035.00
 SITE ADDRESS: 7481 EDMONTON ROAD
 COLUMBIA, KY 42728

JURISDICTION: ADAIR COUNTY

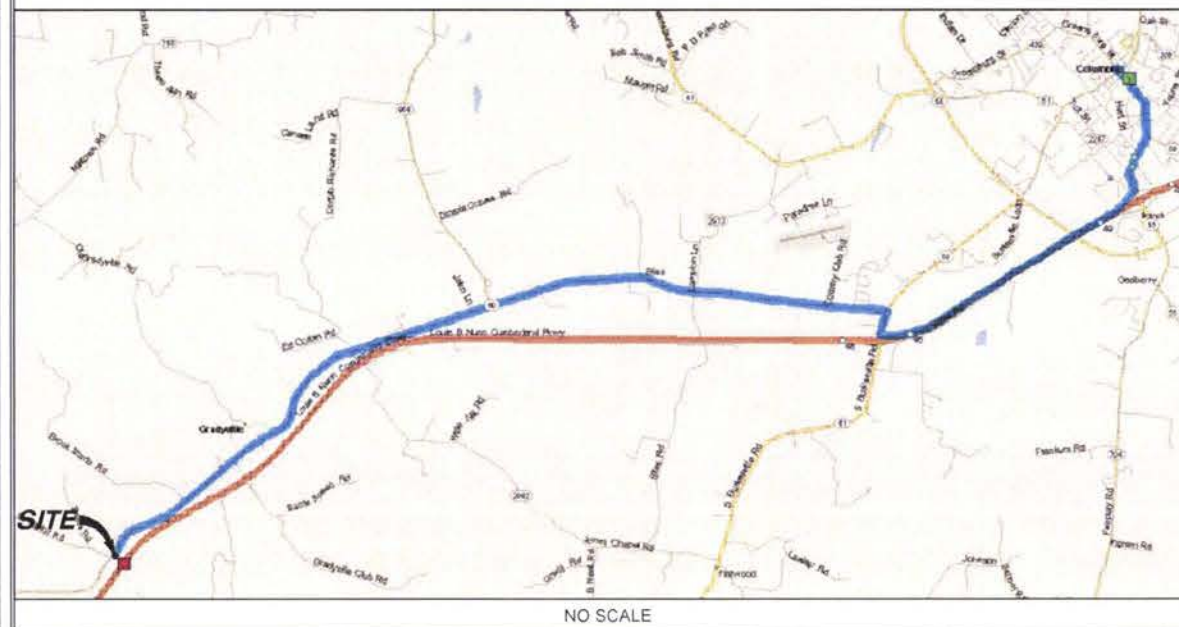
TOWER OWNER: HARMONI TOWERS
 10802 EXECUTIVE CENTER DRIVE
 LITTLE ROCK, AR 72211

NAD83
 LATITUDE: 37°02'41.72" (37.044922°N)
 LONGITUDE: -85°27'27.50" (-85.457639° 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
1-2	SURVEY
C-1.1	500' RADIUS & ADJOINER'S DRAWING
C-1.2	OVERALL SITE LAYOUT
C-2	ENLARGED SITE LAYOUT
C-3	TOWER ELEVATION

HARMONI TOWERS
 EDMONTON ROAD
 FA# 15145567
 PACE# MRTNK047955
 PT# 10115703
 7481 EDMONTON ROAD
 COLUMBIA, KY 42728
 ADAIR COUNTY
 PROPOSED 200' SELF-SUPPORT TOWER

PROJECT NO: G0137336
 CHECKED BY: MAS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
B	09/01/20	DLS	ZONING DRAWINGS
0	09/10/20	DLS	ZONING DRAWINGS
1	12/17/20	DLS	ZONING DRAWINGS

B&T ENGINEERING, INC.
 COA 4011
 Expires 12/31/21



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.

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: -

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

TELCO PROVIDER: -

DRIVING DIRECTIONS

DEPART JUDGE EXECUTIVES OFFICE 424 PUBLIC SQ, COLUMBIA, KY 42728 ON KY-55 [KY-55 BRANCH] (NORTH-WEST) 1.1 MI
 TAKE RAMP (RIGHT) ONTO LOUIE B NUNN CUMBERLAND PKWY 2.1 MI LOUIE B. NUNN CUMBERLAND PARKWAY WEST /
 BOWLING GREEN
 AT EXIT 46, KEEP RIGHT ONTO RAMP 0.2 MI KY-61 / COLUMBIA / BURKESVILLE
 TURN RIGHT (NORTH) ONTO KY-61 [S BURKESVILLE RD] 0.2 MI
 TURN LEFT (WEST) ONTO KY-80 [E KY-80] 6.7 MI
 ARRIVE 7481 EDMONTON RD, COLUMBIA, KY 42728

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 ZONING DRAWINGS INCLUDE:

- CONSTRUCT (1) NEW 200' 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!

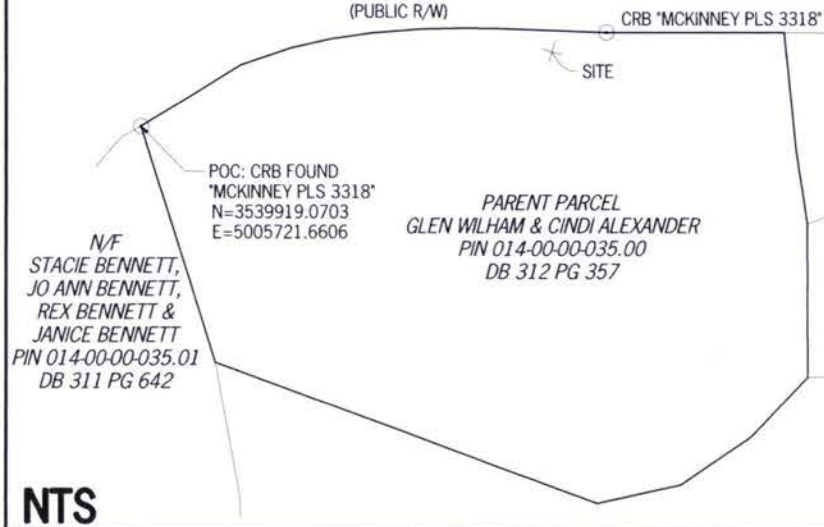


TITLE SHEET

SHEET NUMBER:
T-1

OVERALL VIEW

**EDMONTON RD
A.K.A. HWY 80**
(PUBLIC R/W)



PARENT PARCEL

OWNER: GLEN WILHAM & CINDI ALEXANDER
 SITE ADDRESS: 7481 EDMONTON RD, COLUMBIA, KY 42728
 PARCEL ID: 014-00-00-035.00
 AREA: 24.86 ACRES (PER TAX ASSESSOR)
 ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS
 REFERENCE: DEED BOOK 312 PAGE 357

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: 03-17-2020
 DATUM / EPOCH: NAD_83(2011)EPOCH:2010.0000
 PUBLISHED / FIXED CONTROL USE: N/A
 GEOID MODEL: 18
 COMBINED GRID FACTOR(S): 0.99997149 CENTERED ON THE GPS BASE POINT AS SHOWN HEREON.
 CONVERGENCE ANGLE: 00°10'45.84"
 BENCHMARKS USED: DL6173, DK7555, DK4051

SITE INFORMATION

LEASE AREA = 8,000 SQUARE FEET (0.1837 ACRES)
 LATITUDE = 37°02'41.72" (NAD 83) (37.044922°)
 LONGITUDE = -85°27'27.50" (NAD 83) (-85.457639°)
 AT CENTER OF LEASE AREA
 ELEVATION AT CENTER OF LEASE AREA = 895.1' A.M.S.L.



VICINITY MAP
NOT TO SCALE

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

NO.	DATE	REVISION
1	12/14/2020	SITE 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) pointpointsurvey.com

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 EXCLUSIVELY FOR THE TRANSFERRAL OF THE 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.
 THIS SPECIFIC PURPOSE SURVEY WAS PREPARED WITHOUT BENEFIT OF A TITLE REPORT WHICH MAY REVEAL ADDITIONAL CONVEYANCES, EASEMENTS, OR RIGHTS-OF-WAY NOT SHOWN HEREON.

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: 03-17-2020)

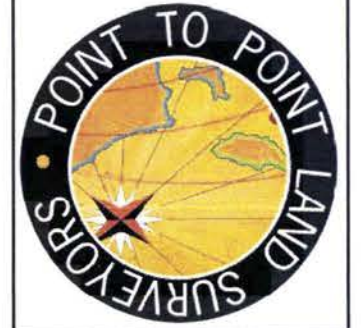
THE 1' CONTOURS AND SPOT ELEVATIONS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE ADJUSTED TO NAVD 88 DATUM (COMPUTED USING GEOID18) AND HAVE A VERTICAL ACCURACY OF ± 0.5'. CONTOURS OUTSIDE THE IMMEDIATE SITE AREA ARE APPROXIMATE.

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.: 21001C0225A 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.



SPECIFIC PURPOSE SURVEY PREPARED FOR:



EDMONTON RD

SITE NO.
KYBGN2026

ADAIR COUNTY, KENTUCKY

DRAWN BY: AKG

CHECKED BY: JKL

APPROVED: D. MILLER

DATE: MARCH 28, 2020

P2P JOB #: 200515KY

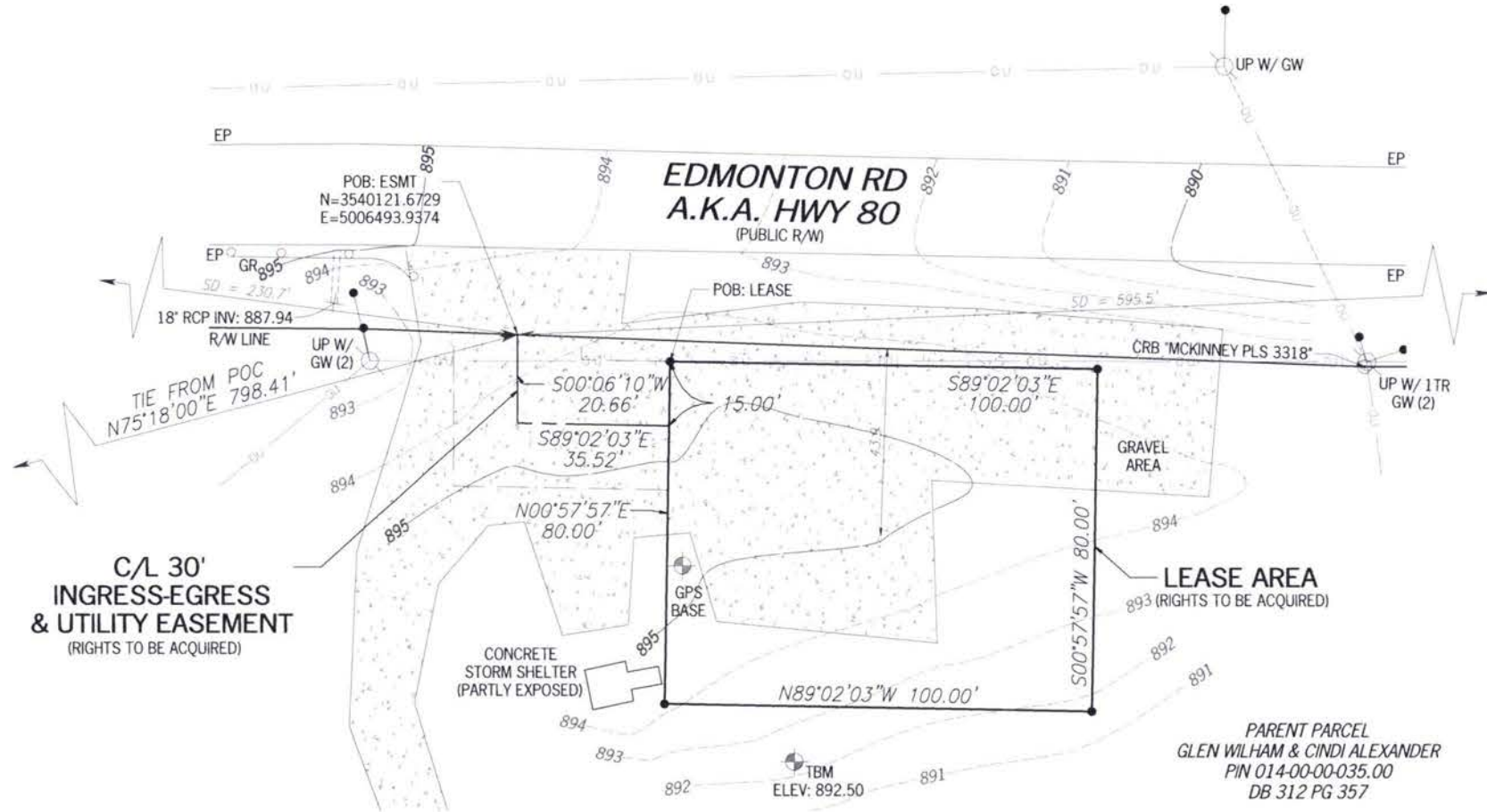
SHEET:

1

OF 2



Know what's below.
Call before you dig.

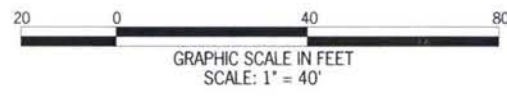


SURVEYOR'S CERTIFICATE

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
 DATE: 03/28/2020

- LEGEND**
- POB POINT OF BEGINNING
 - POC POINT OF COMMENCEMENT
 - IFS IRON PIN SET
 - IFP IRON PIN FOUND
 - CRB CAPPED REBAR
 - GR GUARD RAIL
 - UP UTILITY POLE
 - N/F NOW OR FORMERLY
 - R/W RIGHT-OF-WAY
 - GW GUY WIRE
 - RCP REINFORCED CONCRETE PIPE
 - INV INVERT
 - EP EDGE OF PAVEMENT
 - TBM TEMPORARY BENCH MARK
 - SD SIGHT DISTANCE
 - NTS NOT TO SCALE



SURVEY NOT VALID WITHOUT SHEET 2 OF 2

E:\yngbox (Point To Point)\P2P Current_Lib\KYBGN2026\2026 Edmonton Rd\202615KY.prt

LEGAL DESCRIPTION SHEET

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

NO.	DATE	REVISION
1	12/14/2020	SITE ADDRESS

30' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 30-FOOT WIDE INGRESS-EGRESS AND UTILITY EASEMENT (LYING 15 FEET EACH SIDE OF CENTERLINE) LYING AND BEING IN ADAIR COUNTY, KENTUCKY, AND BEING PART OF THE LANDS OF GLEN WILHAM AND CINDI ALEXANDER, AS RECORDED IN DEED BOOK 312 PAGE 357, ADAIR COUNTY RECORDS, ADAIR COUNTY, KENTUCKY, AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED REBAR FOUND (INSCRIBED: MCKINNEY PLS 3318) ON THE SOUTHERLY RIGHT-OF-WAY LINE OF EDMONTON ROAD, SAID CAPPED REBAR FOUND HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3539919.0703, E: 5005721.6606 AND MARKING THE COMMON CORNER OF THE LANDS OF STACIE BENNETT, JO ANN BENNETT, REX BENNETT AND JANICE BENNETT, AS RECORDED IN DEED BOOK 311 PAGE 642 AND SAID LANDS OF GLEN WILHAM AND CINDI ALEXANDER; THENCE RUNNING ALONG A TIE LINE, NORTH 75°18'00" EAST, 798.41 FEET TO A POINT ON SAID SOUTHERLY RIGHT-OF-WAY LINE AND HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3540121.6729, E: 5006493.9374 AND THE TRUE POINT OF BEGINNING; THENCE LEAVING SAID RIGHT-OF-WAY LINE AND RUNNING, SOUTH 00°06'10" WEST, 20.66 FEET TO A POINT; THENCE, SOUTH 89°02'03" EAST, 35.52 FEET TO THE ENDING AT A POINT ON THE LEASE AREA.

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

LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN ADAIR COUNTY, KENTUCKY, AND BEING PART OF THE LANDS OF GLEN WILHAM AND CINDI ALEXANDER, AS RECORDED IN DEED BOOK 312 PAGE 357, ADAIR COUNTY RECORDS, ADAIR COUNTY, KENTUCKY, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

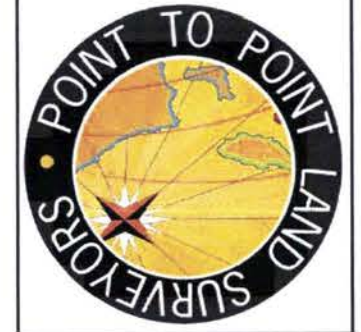
TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED REBAR FOUND (INSCRIBED: MCKINNEY PLS 3318) ON THE SOUTHERLY RIGHT-OF-WAY LINE OF EDMONTON ROAD, SAID CAPPED REBAR FOUND HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3539919.0703, E: 5005721.6606 AND MARKING THE COMMON CORNER OF THE LANDS OF STACIE BENNETT, JO ANN BENNETT, REX BENNETT AND JANICE BENNETT, AS RECORDED IN DEED BOOK 311 PAGE 642 AND SAID LANDS OF GLEN WILHAM AND CINDI ALEXANDER; THENCE RUNNING ALONG A TIE LINE, NORTH 75°18'00" EAST, 798.41 FEET TO A POINT ON SAID SOUTHERLY RIGHT-OF-WAY LINE AND HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3540121.6729, E: 5006493.9374; THENCE LEAVING SAID RIGHT-OF-WAY LINE AND RUNNING, SOUTH 00°06'10" WEST, 20.66 FEET TO A POINT; THENCE, SOUTH 89°02'03" EAST, 35.52 FEET TO A POINT ON THE LEASE AREA; THENCE RUNNING ALONG SAID LEASE AREA, NORTH 00°57'57" EAST, 15.00 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE, SOUTH 89°02'03" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 00°57'57" WEST, 80.00 FEET TO A POINT; THENCE, NORTH 89°02'03" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 00°57'57" EAST, 80.00 FEET TO A POINT AND THE POINT OF BEGINNING.

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

SAID TRACT CONTAINS 0.1837 ACRES (8,000 SQUARE FEET), MORE OR LESS.

* 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:



EDMONTON RD

SITE NO.
KYBGN2026

ADAIR COUNTY, KENTUCKY

DRAWN BY: AKG	SHEET:
CHECKED BY: JKL	2
APPROVED: D. MILLER	
DATE: MARCH 28, 2020	
P2P JOB #: 200515KY	
	OF 2



#	OWNER	ADDRESS	PID	REF
1	GLEN WILHAM & CINDI ALEXANDER	7435 EDMONTON RD COLUMBIA, KY 42728	014-00-00-035.00	-
2	GLEN WILHAM & CINDI ALEXANDER	7435 EDMONTON RD COLUMBIA, KY 42728	014-00-00-034.01	-
3	STACIE & JOANN BENNETT REX & JANICE BENNETT	1932 WEED KELTNER RD EDMONTON, KY 42129	014-00-00-035.01	-
4	CLYDE & ETHELEN FAULKNER	P.O. BOX 1123 EDMONTON, KY 42129	014-00-00-033.00	-
5	THOMAS & RACHEL DZIERAN	2557 LUCY LANE WAYNESVILLE, OH 45068	014-00-00-031.00	-
6	THOMAS & RACHEL DZIERAN	2557 LUCY LANE WAYNESVILLE, OH 45068	014-00-00-030.00	-
7	c/o SHELBY HATCHER & SONIA WASHAM ROBERTSON BRYAN ESTATE	355 BURTON GARMON RD COLUMBIA, KY 42728	014-00-00-029.00	-
8	MARTIN JERRY D	7365 EDMONTON RD COLUMBIA, KY 42728	014-00-00-036.00	-
9	c/o LERETA TAX DISB TEAM ANDERSON PATRICA	1123 PARK VIEW DR COVINA, CA 91724	014-00-00-037.00	-
10	%BARRY & RICKY HAMLET/WANDA HAMLETT FLOSSIE ESTATE	P.O. BOX 517 COLUMBIA, KY 42728	014-00-00-038.00	-

- NOTE:
1. PVA INFORMATION WAS OBTAINED ON 12/07/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
 2. THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
 3. NOT FOR RECORDING OR PROPERTY TRANSFER.



HARMONI TOWERS
EDMONTON ROAD
FA# 15145567
PACE# MRTNK047955
PT# 10115703
7481 EDMONTON ROAD
COLUMBIA, KY 42728
ADAIR COUNTY
PROPOSED 200' SELF-SUPPORT TOWER

PROJECT NO: G0137336
CHECKED BY: MAS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
B	09/01/20	DLS	ZONING DRAWINGS
0	09/10/20	DLS	ZONING DRAWINGS
1	12/17/20	DLS	ZONING DRAWINGS

B&T ENGINEERING, INC.
COA 4011
Expires 12/31/21

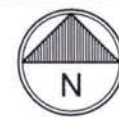


IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

500' RADIUS & ADJOINER'S DRAWING

SHEET NUMBER:
C-1

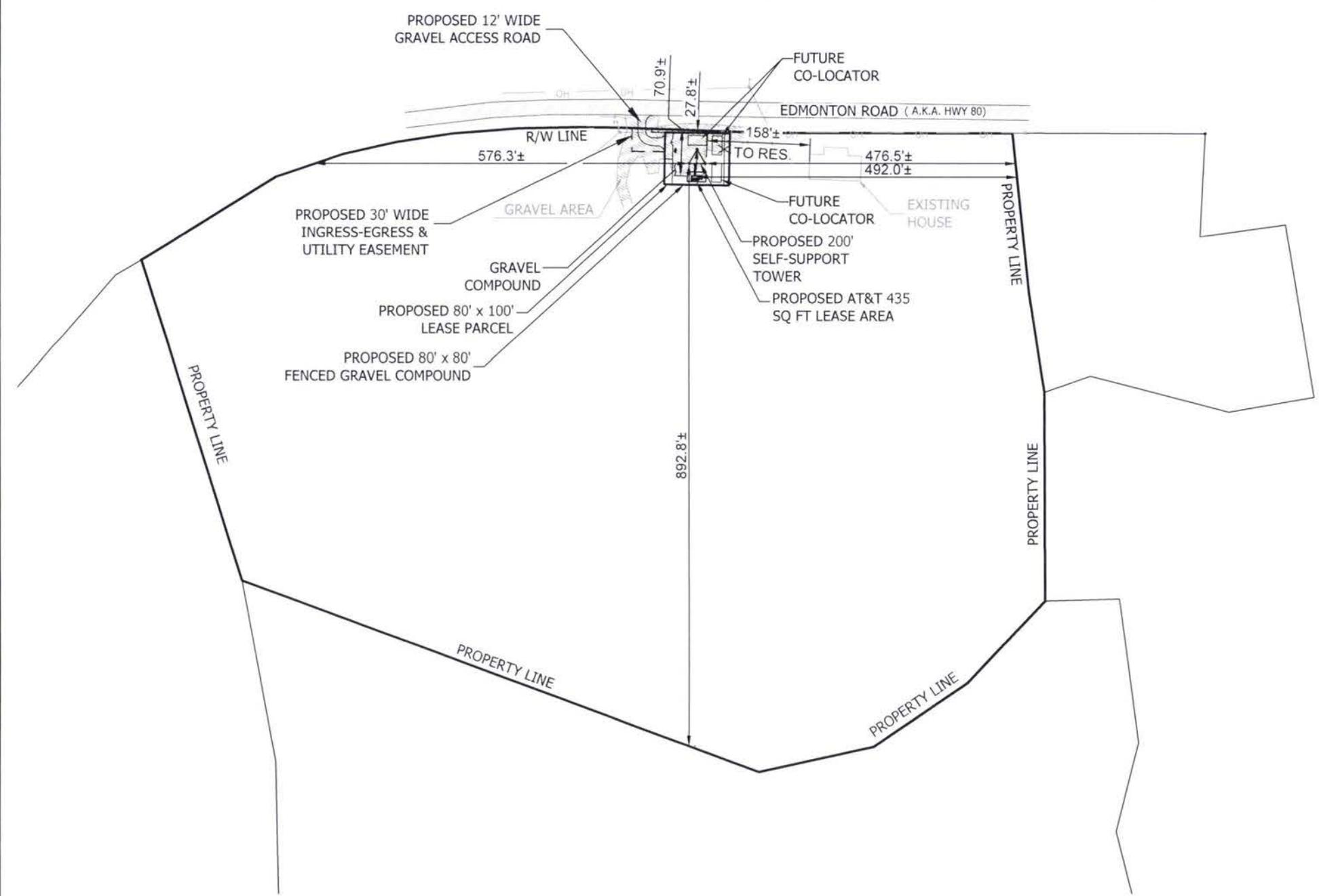
1 500' RADIUS & ADJOINER'S DRAWING
SCALE: 1" = 200'
0' 100' 200' 300' 400'



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



137336_KYBON2026_Edmonton Rd_ZD's [1].dwg - Street-C-2 - User: dalozari - Dec 17, 2020 - 7:11am



1 OVERALL SITE PLAN
 SCALE: 1" = 200'
 0' 100' 200' 400'



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



NOTES:

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

2. CENTER OF TOWER:

LATITUDE: NORTH 37°02'41.72" (37.044922) NAD 83
 LONGITUDE: WEST -85°27'27.50" (-85.457639) NAD 83
 GROUND ELEVATION @ 895.1' A.M.S.L.

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

NORTH: 27.8'±
 SOUTH: 892.8'±
 EAST: 476.5'±
 WEST: 576.3'±



HARMONI TOWERS
 EDMONTON ROAD
 FA# 15145567
 PACE# MRTNK047955
 PT# 10115703
 7481 EDMONTON ROAD
 COLUMBIA, KY 42728
 ADAIR COUNTY
 PROPOSED 200' SELF-SUPPORT TOWER

PROJECT NO: G0157336
 CHECKED BY: MAS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
B	09/01/20	DLS	ZONING DRAWINGS
0	09/10/20	DLS	ZONING DRAWINGS
1	12/17/20	DLS	ZONING DRAWINGS

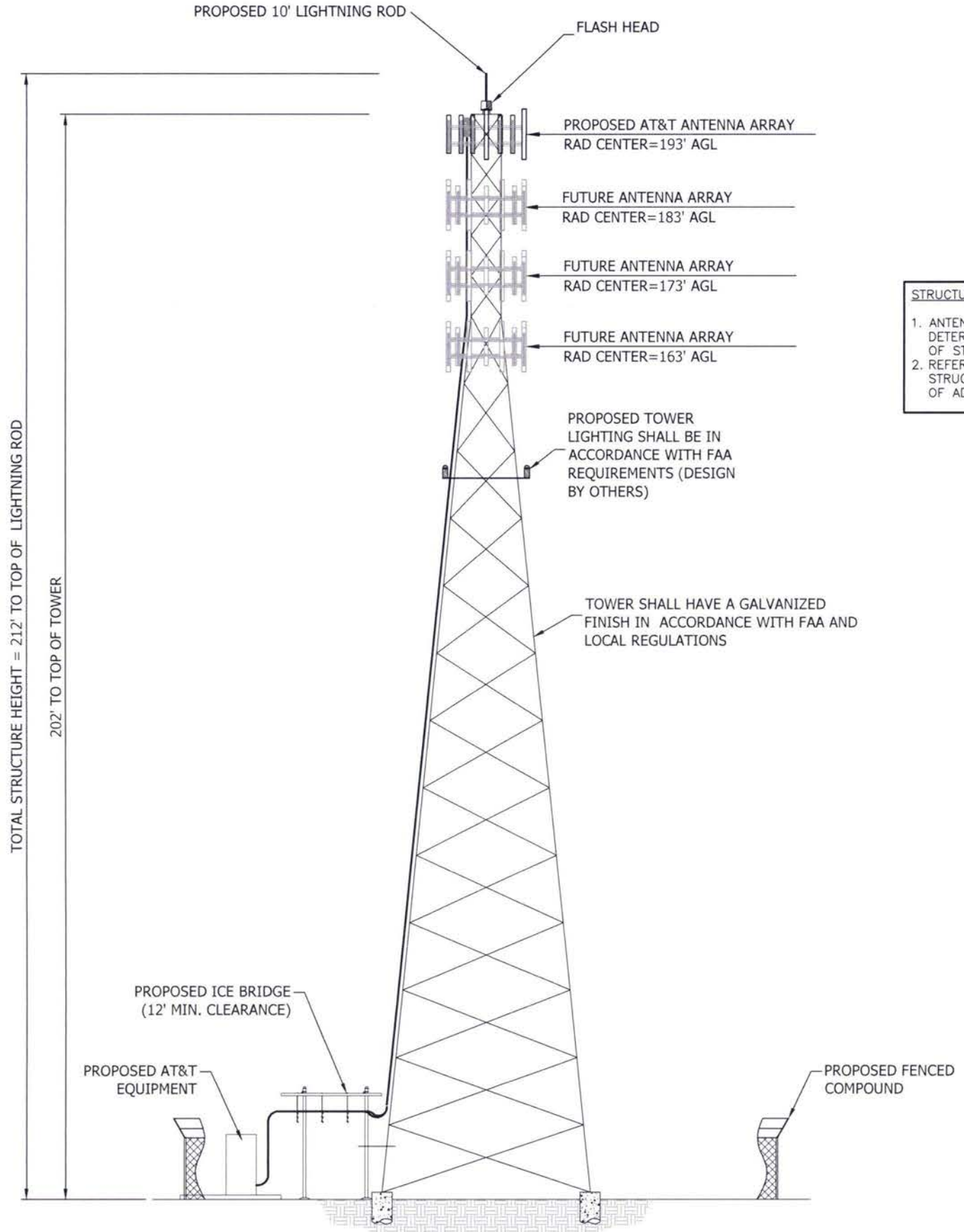
B&T ENGINEERING, INC.
 COA 4011
 Expires 12/31/21



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OVERALL SITE LAYOUT

SHEET NUMBER:
C-2



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.

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



HARMONI TOWERS
EDMONTON ROAD
FA# 15145567
PACE# MRTNK047955
PT# 10115703
7481 EDMONTON ROAD
COLUMBIA, KY 42728
ADAIR COUNTY
PROPOSED 200' SELF-SUPPORT TOWER

PROJECT NO: G0137336
CHECKED BY: MAS

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
B	09/01/20	DLS	ZONING DRAWINGS
0	09/10/20	DLS	ZONING DRAWINGS
1	12/17/20	DLS	ZONING DRAWINGS

B&T ENGINEERING, INC.
COA 4011
Expires 12/31/21



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TOWER ELEVATION

SHEET NUMBER:
C-4

EXHIBIT C
TOWER AND FOUNDATION DESIGN



**Uniti Group Headquarters
10802 Executive Center Dr
Little Rock, AR 72211**

August 10, 2020

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

RE: Site Name – Weed Relo
Proposed Cell Tower
37.044922 North Latitude, 85.457639 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.

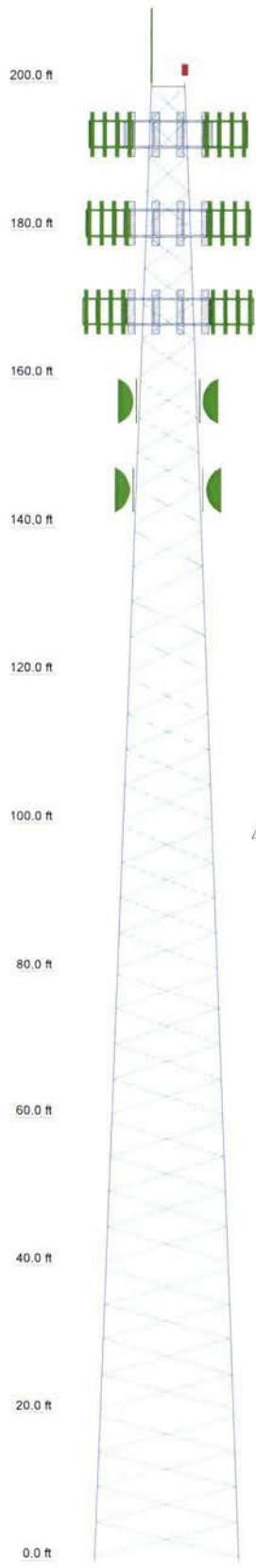
Jeremy has been in the industry completing civil construction and constructing towers since __1998__. He has worked at Uniti Towers LLC since 2018 completing project and construction management on new site build projects.

Thank you,

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

Digitally signed by Jeremy
Culpepper
Date: 2020.08.10 10:50:05 -05'00'

Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10
Legs	SR 1 3/4	SR 2 1/4	SR 2 1/2	SR 2 3/4	SR 3	SR 3 1/4	SR 3 1/2	SR 3 3/4	SR 3 3/4	SR 3 3/4
Leg Grade					A529-50					
Diagonals	L1 3/4x1 3/4x3/16		L2x2x3/16		L2 1/2x2 1/2x3/16		L3x3x3/16		L3x3x1/4	
Diagonal Grade					A36M-50					
Top Girts	L1 3/4x1 3/4x3/16					N.A.				
Face Width (ft)	4.5	6	7.5	9	10.5	12	13.5	15	16.5	18
# Panels @ (ft)						40 @ 4.75				
Weight (K)	0.9	1.2	1.6	2.0	2.3	2.7	3.3	3.4	4.4	4.5



DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod 1"x10'	200	Sector1(CaAa=10000 Sq.in)No Ice (Carrier 3)	169
Top Beacon	200	Sector2(CaAa=10000 Sq.in)No Ice (Carrier 1)	169
Sector1(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	193	Sector3(CaAa=10000 Sq.in)No Ice (Carrier 3)	169
Sector2(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	193	4 1/2" OD Dish Mount (Carrier 4)	157
Sector3(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	193	4 1/2" OD Dish Mount (Carrier 4)	157
Sector1(CaAa=10000 Sq.in)No Ice (Carrier 2)	181	6' MW Dish (Carrier 4)	157
Sector2(CaAa=10000 Sq.in)No Ice (Carrier 2)	181	6' MW Dish (Carrier 4)	157
Sector3(CaAa=10000 Sq.in)No Ice (Carrier 2)	181	4 1/2" OD Dish Mount (Carrier 5)	145
		4 1/2" OD Dish Mount (Carrier 5)	145
		6' MW Dish (Carrier 5)	145
		6' MW Dish (Carrier 5)	145

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

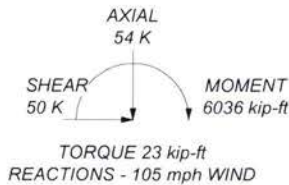
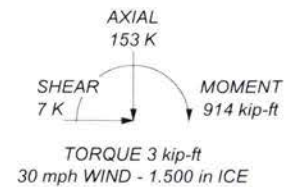
1. Tower is located in Adair County, Kentucky.
2. Tower designed for Exposure C to the TIA-222-H Standard.
3. Tower designed for a 105 mph basic wind in accordance with the TIA-222-H Standard.
4. Tower is also designed for a 30 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness 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: 375 K
SHEAR: 28 K

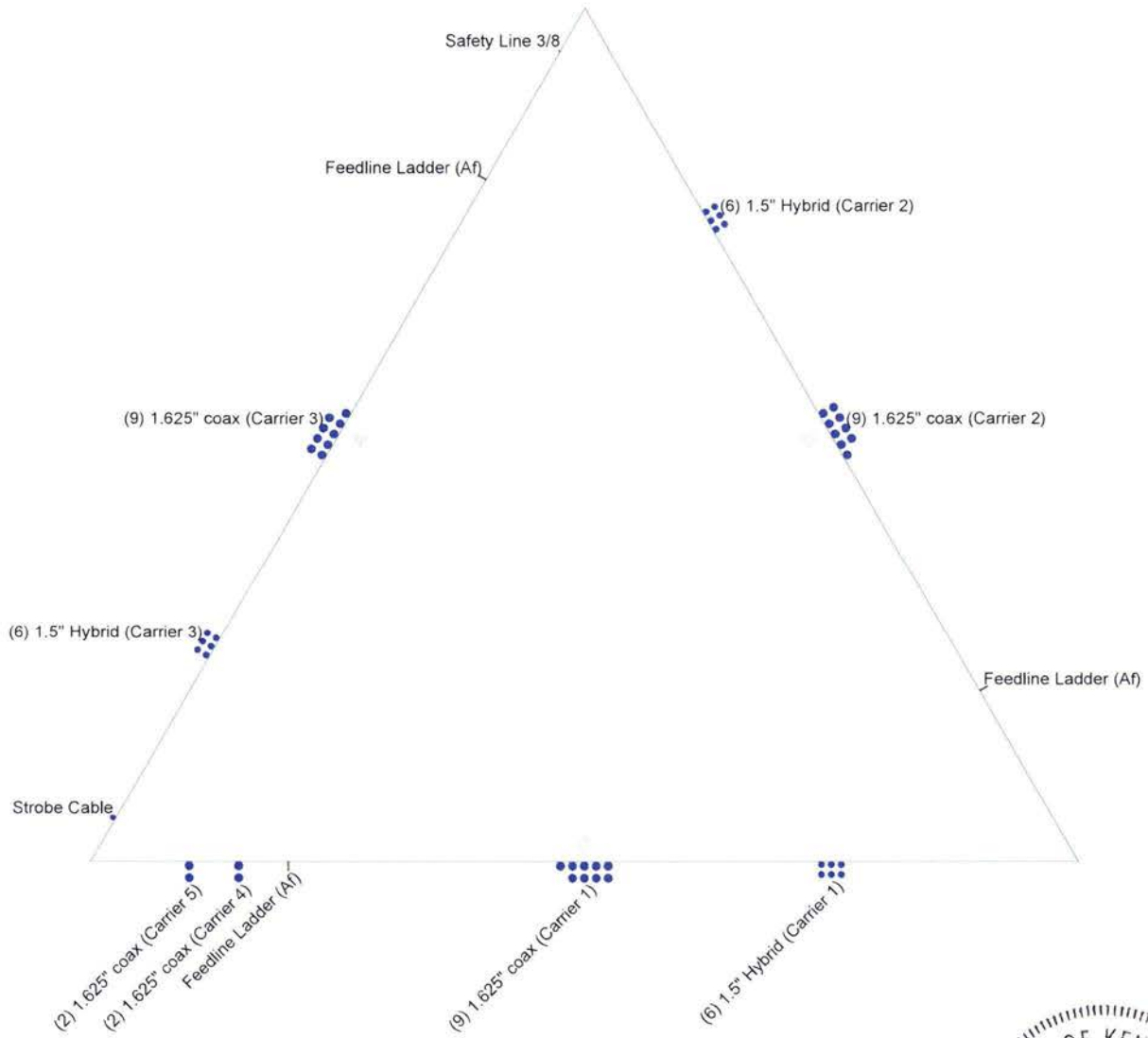
UPLIFT: -330 K
SHEAR: 27 K



B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job: ATS #8793 - Edmonton (Site# KYBGN2026) Project: 200' SS7/37.044922, -85.457639 Client: Harmoni(UNITI) Towers Code: TIA-222-H Path:	Drawn by: xjones Date: 01/26/21 App'd: Scale: NTS Dwg No. E-1
---	---	---

Feed Line Plan

Round
Flat
App In Face
App Out Face



 B+T GRP	B+T Group	Job: ATS #8793 - Edmonton (Site# KYBGN2026)			
	1717 S. Boulder, Suite 300		Project: 200' SST/37.044922, -85.457639		
	Tulsa, OK 74119		Client: Harmoni(UNITI) Towers	Drawn by: xjones	App'd:
	Phone: (918) 587-4630		Code: TIA-222-H	Date: 01/26/21	Scale: NTS
	FAX: (918) 295-0265		Path:		Dwg No. E-7

DIMENSIONING SCHEDULE	
A	25' 6"
B	3' 0"
C	19' 6"
D	4' 3-17/16"
E	16' 10-5/8"
F	2' 9-3/4"
J	1' 6"
K	5' 0"
L	2' 0"
M.N. OVERLAP "M"	2' 3"
DIAMETER	3' 0"

REINFORCING SCHEDULE	SIZE	TOTAL QTY
VERTICAL BARS WITH 90° BEND	# 8	30
HORIZONTAL TIES	# 4	42
HORIZONTAL U-BAR (PEDESTAL)	# 4	12
TOP HORIZONTAL BARS	# 10	80
BOTTOM HORIZONTAL BARS	# 10	80
CORNER BARS	# 4	8
VERTICAL U-BARS (PAD)	# 4	80

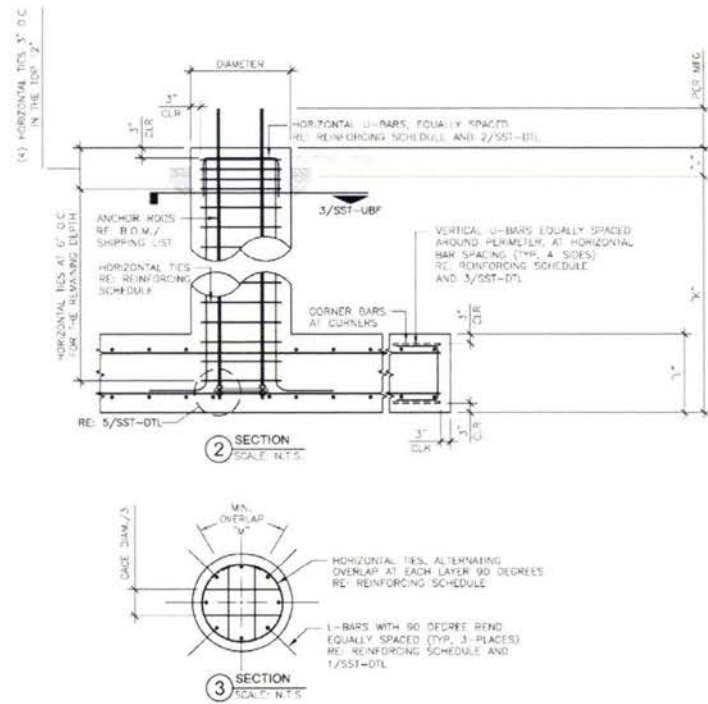
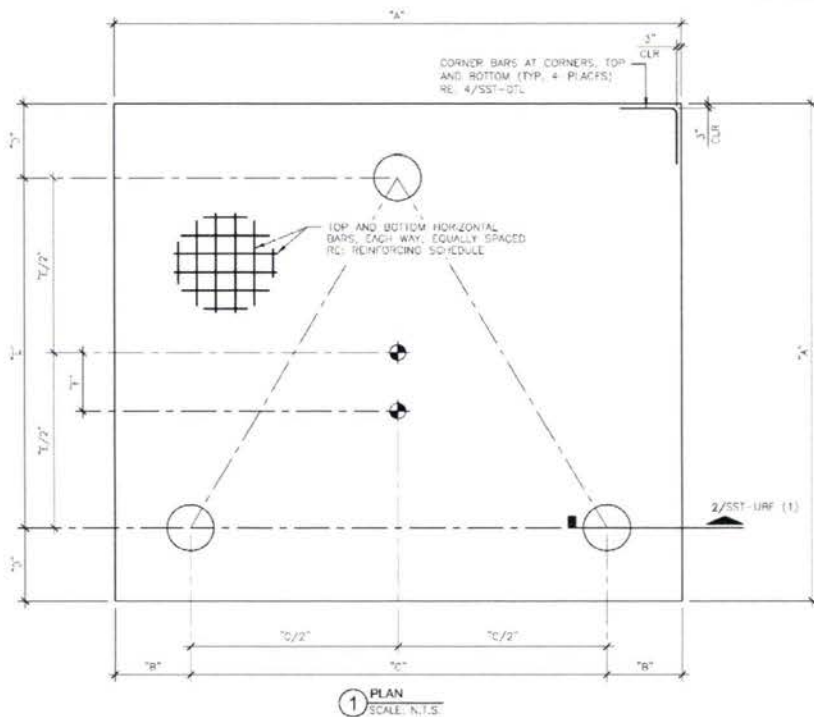
BASE REACTIONS: (FACTORED LOADS)	
GLOBAL REACTIONS	
MOMENT	6036 KIP-FT
AXIAL	54 KIPS
SHEAR	50 KIPS
REACTIONS PER LEG	
COMPRESSION AXIAL	375 KIPS
COMPRESSION SHEAR	28 KIPS
UPLIFT AXIAL	330 KIPS
UPLIFT SHEAR	27 KIPS

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: GEO20-07389-0R REV 0
DATE: NOVEMBER 23, 2020
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: 51.7
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.



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	07/27/21	ISSUED FOR CONSTRUCTION

STATE OF KENTUCKY
BRAD MILANOSKI
LICENSED PROFESSIONAL ENGINEER
112721

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

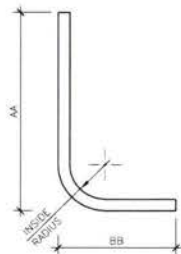
PROJECT INFORMATION:
PROJECT NO: 147449 001 01
SITE NAME: EDMONTON (SITE# KYBGN2026)
SITE NO: 8793
CLIENT NAME: ARCOSA TELECOM STRUCTURES
DRAWN BY: XMJ
CHECKED BY:

SHEET TITLE:
UNIT BASE FOUNDATION

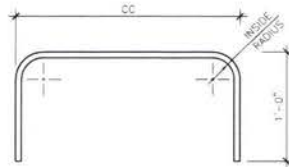
SHEET NUMBER: SST-UBF	REVISION: 0
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DIMENSIONING SCHEDULE	
AA*	5' 9 7/16"
BB	1' 3"
CC*	2' 4 5/16"
DD*	1' 6"
EE	3' 0"

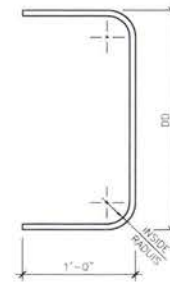
*NOTE: CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO FABRICATION



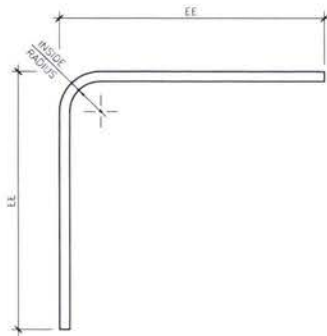
① L-BAR
SCALE: N.T.S.



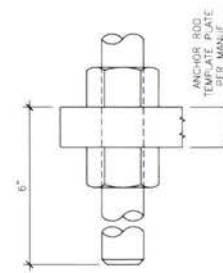
② HORIZONTAL U-BAR
SCALE: N.T.S.



③ VERTICAL U-BAR
SCALE: N.T.S.



④ CORNER BAR
SCALE: N.T.S.



⑤ ANCHOR ROD DETAIL
SCALE: N.T.S.



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



4020 TULL AVE. MUSKOGEE, OK 74403

ISSUED FOR:

REV	DATE	DESCRIPTION
0	01/27/21	ISSUED FOR CONSTRUCTION



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PROJECT INFORMATION:

PROJECT NO: 147449 001 01
SITE NAME: EDMONTON (SITE# KYBGN2026)
SITE NO: 8793
CLIENT NAME: ARCOSA TELECOM STRUCTURES

DRAWN BY: XMJ
CHECKED BY:

SHEET TITLE:

DIMENSIONING DETAIL

SHEET NUMBER:

SST-DTL

REVISION:

0

SST Unit Base Foundation

Project #: 147449.001.01
 Site Name: Edmonton (Site#
 Site #: 8793

TIA-222 Revision: H

Top & Bot. Pad Rein. Different?:	<input type="checkbox"/>
Tower Centroid Offset?:	<input checked="" type="checkbox"/>
Block Foundation?:	<input type="checkbox"/>
Rectangular Pad?:	<input type="checkbox"/>

Superstructure Analysis Reactions			
Global Moment, M :	6036	ft-kips	
Global Axial, P :	54	kips	
Global Shear, V :	50	kips	
Leg Compression, P_{comp} :	375	kips	
Leg Comp. Shear, V_{u,comp} :	28	kips	
Leg Uplift, P_{uplift} :	330	kips	
Leg Uplift. Shear, V_{u,uplift} :	27	kips	
Tower Height, H :	200	ft	
Base Face Width, BW :	19.5	ft	
BP Dist. Above Fdn, bp_{dist} :	3	in	

Foundation Analysis Checks				
	Capacity	Demand	Rating	Check
Lateral (Sliding) (kips)	1068.74	50.00	4.7%	Pass
Bearing Pressure (ksf)	22.91	5.01	21.9%	Pass
Overturing (kip*ft)	6955.28	6523.75	93.8%	Pass
Pier Flexure (Comp.) (kip*ft)	799.59	126.00	15.8%	Pass
Pier Flexure (Tension) (kip*ft)	170.73	121.50	71.2%	Pass
Pier Compression (kip)	4499.01	380.73	8.5%	Pass
Pad Flexure (kip*ft)	4030.26	2582.17	64.1%	Pass
Pad Shear - 1-way (kips)	554.32	415.78	75.0%	Pass
Pad Shear - Comp 2-way (ksi)	0.190	0.117	61.9%	Pass
Flexural 2-way (Comp) (kip*ft)	1894.38	75.60	4.0%	Pass
Pad Shear - Tension 2-way (ksi)	0.190	0.125	65.7%	Pass
Flexural 2-way (Tension) (kip*ft)	1894.38	72.90	3.8%	Pass

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, dpier :	3.0	ft
Ext. Above Grade, E :	1.50	ft
Pier Rebar Size, Sc :	8	
Pier Rebar Quantity, mc :	10	
Pier Tie/Spiral Size, St :	4	
Pier Tie/Spiral Quantity, mt :	13	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier} :	3	in

Soil Rating:	93.8%
Structural Rating:	75.0%

Pad Properties		
Depth, D :	5.00	ft
Pad Width, W₁ :	25.50	ft
Pad Thickness, T :	2.00	ft
Pad Rebar Size (Bottom dir. 2), Sp₂ :	10	
Pad Rebar Quantity (Bottom dir. 2), mp₂ :	40	
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 :	30.000	ksf
Cohesion, Cu :	10.000	ksf
Friction Angle, φ :		degrees
SPT Blow Count, N_{blows} :		
Base Friction, μ :	0.35	
Neglected Depth, N :	1.7	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, gw :	N/A	ft

1.0 - Depth between G-200 and 1' level

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job ATS #8793 - Edmonton (Site# KYBGN2026)	Page 1 of 26
	Project 200' SST/37.044922, -85.457639	Date 09:33:19 01/26/21
	Client Harmoni(UNITI) Towers	Designed by xjones

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 200.000 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 4.500 ft at the top and 19.500 ft at the base.

This tower is designed using the TIA-222-H standard.

The following design criteria apply:

Tower is located in Adair County, Kentucky.

Tower base elevation above sea level: 906.000 ft.

Basic wind speed of 105 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.

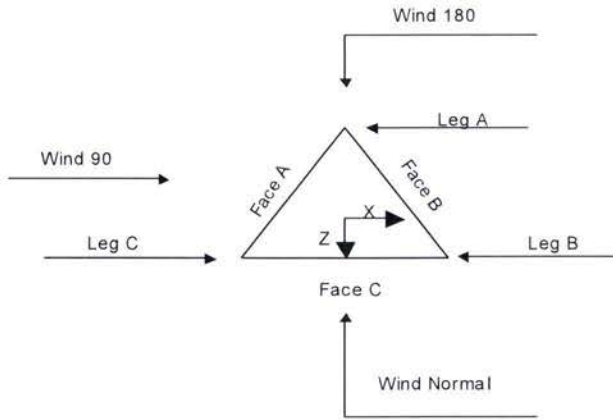
Stress ratio used in tower member design is 1.

Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

- | | | |
|--|--|---|
| <ul style="list-style-type: none"> Consider Moments - Legs Consider Moments - Horizontals Consider Moments - Diagonals Use Moment Magnification √ Use Code Stress Ratios √ Use Code Safety Factors - Guys Escalate Ice Always Use Max Kz Use Special Wind Profile √ Include Bolts In Member Capacity √ Leg Bolts Are At Top Of Section √ Secondary Horizontal Braces Leg √ Use Diamond Inner Bracing (4 Sided) SR Members Have Cut Ends SR Members Are Concentric | <ul style="list-style-type: none"> Distribute Leg Loads As Uniform Assume Legs Pinned √ Assume Rigid Index Plate √ Use Clear Spans For Wind Area √ Use Clear Spans For KL/r Retension Guys To Initial Tension √ Bypass Mast Stability Checks √ Use Azimuth Dish Coefficients √ Project Wind Area of Appurt Autocalc Torque Arm Areas Add IBC 6D+W Combination √ Sort Capacity Reports By Component Triangulate Diamond Inner Bracing Treat Feed Line Bundles As Cylinder Ignore KL/ry For 60 Deg Angle Legs | <ul style="list-style-type: none"> Use ASCE 10 X-Brace Ly Rules √ Calculate Redundant Bracing Forces Ignore Redundant Members in FEA √ SR Leg Bolts Resist Compression All Leg Panels Have Same Allowable Offset Girt At Foundation √ Consider Feed Line Torque √ Include Angle Block Shear Check Use TIA-222-H Bracing Resist Exemption Use TIA-222-H Tension Splice Exemption Poles Include Shear-Torsion Interaction Always Use Sub-Critical Flow Use Top Mounted Sockets Pole Without Linear Attachments Pole With Shroud Or No Appurtenances Outside and Inside Corner Radii Are Known |
|--|--|---|

tnxTower B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265	Job ATS #8793 - Edmonton (Site# KYBGN2026)	Page 2 of 26
	Project 200' SST/37.044922, -85.457639	Date 09:33:19 01/26/21
	Client Harmoni(UNITI) Towers	Designed by xjones



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	200.000-180.000			4.500	1	20.000
T2	180.000-160.000			6.000	1	20.000
T3	160.000-140.000			7.500	1	20.000
T4	140.000-120.000			9.000	1	20.000
T5	120.000-100.000			10.500	1	20.000
T6	100.000-80.000			12.000	1	20.000
T7	80.000-60.000			13.500	1	20.000
T8	60.000-40.000			15.000	1	20.000
T9	40.000-20.000			16.500	1	20.000
T10	20.000-0.000			18.000	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	200.000-180.000	4.750	X Brace	No	No	6.000	6.000
T2	180.000-160.000	4.750	X Brace	No	No	6.000	6.000
T3	160.000-140.000	4.750	X Brace	No	No	6.000	6.000
T4	140.000-120.000	4.750	X Brace	No	No	6.000	6.000
T5	120.000-100.000	4.750	X Brace	No	No	6.000	6.000

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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
T6	100.000-80.000	4.750	X Brace	No	No	6.000	6.000
T7	80.000-60.000	4.750	X Brace	No	No	6.000	6.000
T8	60.000-40.000	4.750	X Brace	No	No	6.000	6.000
T9	40.000-20.000	4.750	X Brace	No	No	6.000	6.000
T10	20.000-0.000	4.750	X Brace	No	No	6.000	6.000

Tower Section Geometry (cont'd)

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

Tower Section Geometry (cont'd)

Tower Elevation	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
ft						
T1 200.000-180.000	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)	Solid Round		A36M-50 (50 ksi)

Tower Section Geometry (cont'd)

Tower Elevation	Gusset Area (per face)	Gusset Thickness	Gusset Grade	Adjust. Factor A _j	Adjust. Factor A _e	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Double Angle Stitch Bolt Spacing Redundants
ft	ft ²	in					in	in	in

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	Project	200' SST/37.044922, -85.457639	Date	09:33:19 01/26/21
	Client	Harmoni(UNITI) Towers	Designed by	xjones

Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	Legs	K Factors ¹							
				X Brace Diags	K Brace Diags	Single Diags	Girts	Horiz.	Sec. Horiz.	Inner Brace	
				X Y	X Y	X Y	X Y	X Y	X Y	X Y	
ft											
T8 60.000-40.000	No	No	1	1	1	1	1	1	1	1	1
T9 40.000-20.000	No	No	1	1	1	1	1	1	1	1	1
T10 20.000-0.000	No	No	1	1	1	1	1	1	1	1	1

¹Note: 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		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
T1 200.000-180.000	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
T2 180.000-160.000	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
T3 160.000-140.000	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
T4 140.000-120.000	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
T5 120.000-100.000	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
T6 100.000-80.000	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
T7 80.000-60.000	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
T8 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
T9 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
T10 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)

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	Client Harmoni(UNITI) Towers	Designed by xjones

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
Safety Line 3/8	A	No	No	Ar (CaAa)	200.000 - 10.000	0.000	0.45	1	1	0.375	0.375		0.000
Strobe Cable	A	No	No	Ar (CaAa)	200.000 - 10.000	0.000	-0.45	1	1	1.250	1.250		0.001
**													
Feedline Ladder (Af)	C	No	No	Af (CaAa)	193.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008
Feedline Ladder (Af)	B	No	No	Af (CaAa)	181.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008
Feedline Ladder (Af)	A	No	No	Af (CaAa)	169.000 - 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 _i A _i 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 _i A _i In Face ft ²	C _i A _i Out Face ft ²	Weight K
T1	200.000-180.000	A	0.000	0.000	3.250	0.000	0.018
		B	0.000	0.000	2.724	0.000	0.021
		C	0.000	0.000	35.408	0.000	0.267
T2	180.000-160.000	A	0.000	0.000	27.763	0.000	0.203
		B	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	54.473	0.000	0.410
T3	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	63.185	0.000	0.442
T4	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
T5	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
T6	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
T7	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
T8	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

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	Client Harmoni(UNITI) Towers	Designed by xjones

Tower Section	Tower Elevation ft	Face	A_R ft ²	A_F ft ²	C_{iA_i} In Face ft ²	C_{oA_o} Out Face ft ²	Weight K
T9	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
T10	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_{iA_i} In Face ft ²	C_{oA_o} Out Face ft ²	Weight K
T1	200.000-180.000	A	1.787	0.000	0.000	17.546	0.000	0.245
		B		0.000	0.000	4.211	0.000	0.086
		C		0.000	0.000	54.740	0.000	1.112
T2	180.000-160.000	A	1.767	0.000	0.000	55.127	0.000	1.005
		B		0.000	0.000	83.865	0.000	1.696
		C		0.000	0.000	83.865	0.000	1.696
T3	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	110.584	0.000	2.062
T4	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
T5	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
T6	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
T7	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
T8	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
T9	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
T10	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	200.000-180.000	1.078	4.029	-0.599	3.060
T2	180.000-160.000	2.369	-2.236	1.257	-1.197
T3	160.000-140.000	-1.076	-1.617	-2.610	-0.202
T4	140.000-120.000	-1.976	-0.496	-4.129	1.408
T5	120.000-100.000	-2.151	-0.538	-4.510	1.528
T6	100.000-80.000	-2.305	-0.575	-4.842	1.633

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Section	Elevation	CP _x	CP _z	CP _x Ice	CP _z Ice
	ft	in	in	in	in
T7	80.000-60.000	-2.274	-0.572	-4.950	1.675
T8	60.000-40.000	-2.393	-0.602	-5.175	1.750
T9	40.000-20.000	-2.488	-0.626	-5.323	1.801
T10	20.000-0.000	-1.542	-0.399	-3.286	1.144

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	180.00 - 193.00	0.6000	0.6000
T1	2	1.5" Hybrid	180.00 - 193.00	0.6000	0.6000
T1	4	1.625" coax	180.00 - 181.00	0.6000	0.6000
T1	5	1.5" Hybrid	180.00 - 181.00	0.6000	0.6000
T1	14	Safety Line 3/8	180.00 - 200.00	0.6000	0.6000
T1	15	Strobe Cable	180.00 - 200.00	0.6000	0.6000
T1	17	Feedline Ladder (Af)	180.00 - 193.00	0.6000	0.6000
T1	18	Feedline Ladder (Af)	180.00 - 181.00	0.6000	0.6000
T2	1	1.625" coax	160.00 - 180.00	0.6000	0.6000
T2	2	1.5" Hybrid	160.00 - 180.00	0.6000	0.6000
T2	4	1.625" coax	160.00 - 180.00	0.6000	0.6000
T2	5	1.5" Hybrid	160.00 - 180.00	0.6000	0.6000
T2	7	1.625" coax	160.00 - 169.00	0.6000	0.6000
T2	8	1.5" Hybrid	160.00 - 169.00	0.6000	0.6000
T2	14	Safety Line 3/8	160.00 - 180.00	0.6000	0.6000
T2	15	Strobe Cable	160.00 - 180.00	0.6000	0.6000
T2	17	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T2	18	Feedline Ladder (Af)	160.00 - 180.00	0.6000	0.6000
T2	19	Feedline Ladder (Af)	160.00 - 169.00	0.6000	0.6000
T3	1	1.625" coax	140.00 - 160.00	0.6000	0.6000
T3	2	1.5" Hybrid	140.00 - 160.00	0.6000	0.6000
T3	4	1.625" coax	140.00 - 160.00	0.6000	0.6000
T3	5	1.5" Hybrid	140.00 - 160.00	0.6000	0.6000

<p>tnxTower</p> <p>B+T Group 1717 S. Boulder, Suite 300 Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265</p>	Job ATS #8793 - Edmonton (Site# KYBGN2026)	Page 10 of 26
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	Client Harmoni(UNITI) Towers	Designed by xjones

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T3	7	1.625" coax	140.00 - 160.00	0.6000	0.6000
T3	8	1.5" Hybrid	140.00 - 160.00	0.6000	0.6000
T3	10	1.625" coax	140.00 - 157.00	0.6000	0.6000
T3	12	1.625" coax	140.00 - 145.00	0.6000	0.6000
T3	14	Safety Line 3/8	140.00 - 160.00	0.6000	0.6000
T3	15	Strobe Cable	140.00 - 160.00	0.6000	0.6000
T3	17	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T3	18	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T3	19	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T4	1	1.625" coax	120.00 - 140.00	0.6000	0.6000
T4	2	1.5" Hybrid	120.00 - 140.00	0.6000	0.6000
T4	4	1.625" coax	120.00 - 140.00	0.6000	0.6000
T4	5	1.5" Hybrid	120.00 - 140.00	0.6000	0.6000
T4	7	1.625" coax	120.00 - 140.00	0.6000	0.6000
T4	8	1.5" Hybrid	120.00 - 140.00	0.6000	0.6000
T4	10	1.625" coax	120.00 - 140.00	0.6000	0.6000
T4	12	1.625" coax	120.00 - 140.00	0.6000	0.6000
T4	14	Safety Line 3/8	120.00 - 140.00	0.6000	0.6000
T4	15	Strobe Cable	120.00 - 140.00	0.6000	0.6000
T4	17	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T4	18	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T4	19	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T5	1	1.625" coax	100.00 - 120.00	0.6000	0.6000
T5	2	1.5" Hybrid	100.00 - 120.00	0.6000	0.6000
T5	4	1.625" coax	100.00 - 120.00	0.6000	0.6000
T5	5	1.5" Hybrid	100.00 - 120.00	0.6000	0.6000
T5	7	1.625" coax	100.00 - 120.00	0.6000	0.6000
T5	8	1.5" Hybrid	100.00 - 120.00	0.6000	0.6000
T5	10	1.625" coax	100.00 - 120.00	0.6000	0.6000
T5	12	1.625" coax	100.00 - 120.00	0.6000	0.6000
T5	14	Safety Line 3/8	100.00 - 120.00	0.6000	0.6000

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	Client	Harmoni(UNITI) Towers	Designed by	xjones

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
T5	15	Strobe Cable	100.00 - 120.00	0.6000	0.6000
T5	17	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	18	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T5	19	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T6	1	1 625" coax	80.00 - 100.00	0.6000	0.6000
T6	2	1 5" Hybrid	80.00 - 100.00	0.6000	0.6000
T6	4	1 625" coax	80.00 - 100.00	0.6000	0.6000
T6	5	1 5" Hybrid	80.00 - 100.00	0.6000	0.6000
T6	7	1 625" coax	80.00 - 100.00	0.6000	0.6000
T6	8	1 5" Hybrid	80.00 - 100.00	0.6000	0.6000
T6	10	1 625" coax	80.00 - 100.00	0.6000	0.6000
T6	12	1 625" coax	80.00 - 100.00	0.6000	0.6000
T6	14	Safety Line 3/8	80.00 - 100.00	0.6000	0.6000
T6	15	Strobe Cable	80.00 - 100.00	0.6000	0.6000
T6	17	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	18	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T6	19	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T7	1	1 625" coax	60.00 - 80.00	0.6000	0.6000
T7	2	1 5" Hybrid	60.00 - 80.00	0.6000	0.6000
T7	4	1 625" coax	60.00 - 80.00	0.6000	0.6000
T7	5	1 5" Hybrid	60.00 - 80.00	0.6000	0.6000
T7	7	1 625" coax	60.00 - 80.00	0.6000	0.6000
T7	8	1 5" Hybrid	60.00 - 80.00	0.6000	0.6000
T7	10	1 625" coax	60.00 - 80.00	0.6000	0.6000
T7	12	1 625" coax	60.00 - 80.00	0.6000	0.6000
T7	14	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T7	15	Strobe Cable	60.00 - 80.00	0.6000	0.6000
T7	17	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	18	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T7	19	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T8	1	1 625" coax	40.00 - 60.00	0.6000	0.6000
T8	2	1 5" Hybrid	40.00 - 60.00	0.6000	0.6000
T8	4	1 625" coax	40.00 - 60.00	0.6000	0.6000
T8	5	1 5" Hybrid	40.00 - 60.00	0.6000	0.6000
T8	7	1 625" coax	40.00 - 60.00	0.6000	0.6000
T8	8	1 5" Hybrid	40.00 - 60.00	0.6000	0.6000
T8	10	1 625" coax	40.00 - 60.00	0.6000	0.6000
T8	12	1 625" coax	40.00 - 60.00	0.6000	0.6000
T8	14	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T8	15	Strobe Cable	40.00 - 60.00	0.6000	0.6000
T8	17	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	18	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T8	19	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T9	1	1 625" coax	20.00 - 40.00	0.6000	0.6000
T9	2	1 5" Hybrid	20.00 - 40.00	0.6000	0.6000
T9	4	1 625" coax	20.00 - 40.00	0.6000	0.6000
T9	5	1 5" Hybrid	20.00 - 40.00	0.6000	0.6000
T9	7	1 625" coax	20.00 - 40.00	0.6000	0.6000
T9	8	1 5" Hybrid	20.00 - 40.00	0.6000	0.6000
T9	10	1 625" coax	20.00 - 40.00	0.6000	0.6000
T9	12	1 625" coax	20.00 - 40.00	0.6000	0.6000
T9	14	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T9	15	Strobe Cable	20.00 - 40.00	0.6000	0.6000
T9	17	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	18	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T9	19	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T10	1	1 625" coax	10.00 - 20.00	0.6000	0.6000
T10	2	1 5" Hybrid	10.00 - 20.00	0.6000	0.6000

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	Client Harmoni(UNITI) Towers	Designed by xjones

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T10	4	1 625" coax	10 00 - 20 00	0 6000	0 6000
T10	5	1 5" Hybrid	10 00 - 20 00	0 6000	0 6000
T10	7	1 625" coax	10 00 - 20 00	0 6000	0 6000
T10	8	1 5" Hybrid	10 00 - 20 00	0 6000	0 6000
T10	10	1 625" coax	10 00 - 20 00	0 6000	0 6000
T10	12	1 625" coax	10 00 - 20 00	0 6000	0 6000
T10	14	Safety Line 3/8	10 00 - 20 00	0 6000	0 6000
T10	15	Strobe Cable	10 00 - 20 00	0 6000	0 6000
T10	17	Feedline Ladder (Af)	10 00 - 20 00	0 6000	0 6000
T10	18	Feedline Ladder (Af)	10 00 - 20 00	0 6000	0 6000
T10	19	Feedline Ladder (Af)	10 00 - 20 00	0 6000	0 6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement	$C_i A_i$ Front	$C_i A_i$ Side	Weight
			ft ft ft	°	ft	ft ²	ft ²	K
Lightning Rod 1"x10'	C	From Leg	0 000 0 000 5 000	0 000	200 000	No Ice 1 000 1/2" Ice 2 017 1" Ice 3 050 2" Ice 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	200 000	No Ice 2 700 1/2" Ice 3 100 1" Ice 3 500 2" Ice 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	193 000	No Ice 92 600 1/2" Ice 115 750 1" Ice 138 900 2" Ice 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	193 000	No Ice 92 600 1/2" Ice 115 750 1" Ice 138 900 2" Ice 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	193 000	No Ice 92 600 1/2" Ice 115 750 1" Ice 138 900 2" Ice 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	181 000	No Ice 69 440 1/2" Ice 86 800 1" Ice 104 160 2" Ice 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	181 000	No Ice 69 440 1/2" Ice 86 800 1" Ice 104 160 2" Ice 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	181 000	No Ice 69 440 1/2" Ice 86 800 1" Ice 104 160 2" Ice 138 880	46 525 58 156 69 787 93 050	0 700 1 400 2 100 3 500

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Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert ft ft ft	Azimuth Adjustment °	Placement ft	C ₁ A ₁ Front ft ²	C ₁ A ₁ Side ft ²	Weight K
**								
Sector1(CaAa=10000 Sq.in)No Ice (Carrier 3)	A	From Leg	4.000 0.000 0.000	0.000	169.000	No Ice 69.440 1/2" Ice 86.800 1" Ice 104.160 2" Ice 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 3)	B	From Leg	4.000 0.000 0.000	0.000	169.000	No Ice 69.440 1/2" Ice 86.800 1" Ice 104.160 2" Ice 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 3)	C	From Leg	4.000 0.000 0.000	0.000	169.000	No Ice 69.440 1/2" Ice 86.800 1" Ice 104.160 2" Ice 138.880	46.525 58.156 69.787 93.050	0.700 1.400 2.100 3.500
**								
4 1/2" OD Dish Mount (Carrier 4)	C	From Leg	0.500 0.000 0.000	0.000	157.000	No Ice 1.615 1/2" Ice 2.207 1" Ice 2.543 2" Ice 3.241	1.615 2.207 2.543 3.241	0.057 0.074 0.094 0.148
4 1/2" OD Dish Mount (Carrier 4)	B	From Leg	0.500 0.000 0.000	0.000	157.000	No Ice 1.615 1/2" Ice 2.207 1" Ice 2.543 2" Ice 3.241	1.615 2.207 2.543 3.241	0.057 0.074 0.094 0.148
**								
4 1/2" OD Dish Mount (Carrier 5)	C	From Leg	0.500 0.000 0.000	0.000	145.000	No Ice 1.615 1/2" Ice 2.207 1" Ice 2.543 2" Ice 3.241	1.615 2.207 2.543 3.241	0.057 0.074 0.094 0.148
4 1/2" OD Dish Mount (Carrier 5)	B	From Leg	0.500 0.000 0.000	0.000	145.000	No Ice 1.615 1/2" Ice 2.207 1" Ice 2.543 2" Ice 3.241	1.615 2.207 2.543 3.241	0.057 0.074 0.094 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 0.000	0.000		157.000	6.000	No Ice 28.270 1/2" Ice 29.050 1" Ice 29.830 2" Ice 31.390	0.140 0.290 0.440 0.740
6' MW Dish (Carrier 4)	B	Paraboloid w/o Radome	From Leg	1.000 0.000 0.000	0.000		157.000	6.000	No Ice 28.270 1/2" Ice 29.050 1" Ice 29.830 2" Ice 31.390	0.140 0.290 0.440 0.740
**										
6' MW Dish (Carrier 5)	C	Paraboloid w/o Radome	From Leg	1.000 0.000	0.000		145.000	6.000	No Ice 28.270 1/2" Ice 29.050	0.140 0.290

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	<p>Client</p> <p>Harmoni(UNITI) Towers</p>	<p>Designed by</p> <p>xjones</p>

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter	Aperture Area	Weight
				ft	°	°	ft	ft	ft ²	K
				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 0.000	0.000		145.000	6.000	No Ice 28.270 1/2" Ice 29.050 1" Ice 29.830 2" Ice 31.390	0.140 0.290 0.440 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

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Comb. No.	Description
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	200 - 180	Leg	Max Tension	15	15.696	0.849	-0.005
			Max. Compression	2	-19.267	1.245	-0.006
			Max Mx	2	-16.162	-1.455	0.006
			Max My	4	-0.243	-0.013	1.393
			Max Vy	2	-4.514	1.245	-0.006
			Max Vx	4	2.440	-0.020	-0.790
		Diagonal	Max Tension	8	3.120	0.000	0.000
			Max. Compression	8	-2.852	0.000	0.000
			Max Mx	38	0.161	0.020	-0.002
			Max My	2	-2.425	-0.009	-0.009
			Max Vy	34	0.023	0.020	-0.002
			Max Vx	2	0.002	0.000	0.000
		Top Girt	Max Tension	15	0.557	0.000	0.000
			Max. Compression	2	-0.599	0.000	0.000
			Max Mx	26	-0.072	-0.030	0.000
			Max My	38	-0.066	0.000	0.001
			Max Vy	26	0.027	0.000	0.000
			Max Vx	38	0.001	0.000	0.000
T2	180 - 160	Leg	Max Tension	15	54.284	2.185	-0.021
			Max. Compression	2	-61.518	0.687	-0.007
			Max Mx	2	-19.288	3.473	-0.019
			Max My	4	-2.207	-0.037	-2.010
			Max Vy	2	-6.598	0.687	-0.007
			Max Vx	4	3.381	0.014	-0.407
		Diagonal	Max Tension	2	6.360	0.000	0.000
			Max. Compression	14	-5.862	0.000	0.000
			Max Mx	2	1.223	0.027	-0.001
			Max My	8	-5.149	0.002	-0.023
			Max Vy	34	0.027	0.025	-0.002
			Max Vx	8	0.006	0.000	0.000
T3	160 - 140	Leg	Max Tension	7	95.778	2.969	0.151
			Max. Compression	2	-107.363	0.795	-0.002
			Max Mx	2	-61.532	3.967	-0.042
			Max My	4	-4.148	-0.042	-2.100
			Max Vy	2	-9.168	0.795	-0.002
			Max Vx	4	4.021	0.017	-0.484
		Diagonal	Max Tension	20	7.978	0.000	0.000
			Max. Compression	20	-7.222	0.000	0.000
			Max Mx	37	0.998	0.037	-0.003
			Max My	20	-7.178	-0.004	0.022
			Max Vy	32	0.036	0.037	0.003
			Max Vx	20	-0.005	0.000	0.000
T4	140 - 120	Leg	Max Tension	7	136.613	3.142	0.146
			Max. Compression	2	-151.589	0.806	0.003
			Max Mx	2	-107.380	5.355	-0.019
			Max My	4	-7.539	0.260	-2.497
			Max Vy	18	-9.683	0.804	0.047
			Max Vx	24	-4.132	0.023	0.374

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft			
T5	120 - 100	Diagonal	Max Tension	8	7.934	0.000	0.000			
			Max. Compression	20	-8.302	0.000	0.000			
			Max. Mx	36	1.240	0.057	-0.004			
			Max. My	20	-8.244	-0.010	0.019			
			Max. Vy	32	0.048	0.056	0.005			
		Leg	Max. Vx	20	-0.004	0.000	0.000			
			Max Tension	7	173.510	3.417	0.129			
			Max. Compression	2	-192.195	0.828	0.005			
			Max. Mx	18	-151.145	5.622	0.308			
			Max. My	24	-11.544	0.215	2.443			
			Max. Vy	18	-10.465	0.831	0.030			
			Max. Vx	24	-4.242	0.025	0.370			
			Diagonal	Max Tension	8	8.088	0.000	0.000		
				Max. Compression	8	-8.267	0.000	0.000		
				Max. Mx	32	0.362	0.070	0.006		
Max. My	8	-8.193		-0.004	-0.017					
Max. Vy	32	0.054		0.070	0.006					
T6	100 - 80	Leg	Max. Vx	8	0.003	0.000	0.000			
			Max Tension	7	207.781	3.679	0.112			
			Max. Compression	18	-230.548	0.897	0.034			
			Max. Mx	18	-191.929	6.041	0.253			
			Max. My	24	-14.936	0.196	2.494			
		Diagonal	Max. Vy	18	-11.229	0.897	0.034			
			Max. Vx	24	-4.425	0.024	0.476			
			Max Tension	8	8.348	0.000	0.000			
			Max. Compression	8	-8.457	0.000	0.000			
			Max. Mx	32	0.372	0.085	0.008			
			Max. My	10	-8.331	-0.004	-0.014			
			Max. Vy	32	0.060	0.085	0.008			
			Max. Vx	10	0.002	0.000	0.000			
			T7	80 - 60	Leg	Max Tension	7	240.413	4.601	0.118
						Max. Compression	18	-268.198	0.148	0.007
Max. Mx	18	-230.572				6.489	0.223			
Max. My	24	-18.016				0.186	2.691			
Max. Vy	18	-12.229				0.148	0.007			
Diagonal	Max. Vx	24			-4.726	0.004	0.144			
	Max Tension	8			9.005	0.000	0.000			
	Max. Compression	8			-8.839	0.000	0.000			
	Max. Mx	32			0.379	0.116	0.010			
	Max. My	22			-8.137	0.026	0.015			
	Max. Vy	32			0.075	0.116	0.010			
	Max. Vx	38			0.003	0.000	0.000			
	T8	60 - 40			Leg	Max Tension	7	271.657	4.218	0.088
						Max. Compression	18	-304.760	1.059	0.034
						Max. Mx	18	-268.219	6.263	0.173
Max. My			24	-21.022		0.158	2.510			
Max. Vy			18	-13.206		1.059	0.034			
Diagonal			Max. Vx	24	-5.018	0.025	0.596			
			Max Tension	8	9.323	0.000	0.000			
			Max. Compression	8	-9.223	0.000	0.000			
			Max. Mx	38	0.448	0.134	-0.012			
			Max. My	22	-8.453	0.032	0.015			
			Max. Vy	38	0.080	0.134	-0.012			
			Max. Vx	38	0.003	0.000	0.000			
			T9	40 - 20	Leg	Max Tension	7	301.795	5.178	0.097
						Max. Compression	18	-341.066	0.187	0.008
						Max. Mx	18	-304.787	7.635	0.180
Max. My	24	-23.847				0.177	3.107			
Max. Vy	18	-14.034				0.187	0.008			
Diagonal	Max. Vx	24			-5.278	0.009	0.159			
	Max Tension	8			10.012	0.000	0.000			

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Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T10	20 - 0	Leg	Max. Compression	8	-9.949	0.000	0.000
			Max. Mx	35	0.993	0.167	0.015
			Max. My	22	-9.016	0.054	0.017
			Max. Vy	38	0.090	0.159	-0.014
			Max. Vx	37	0.003	0.000	0.000
			Max Tension	7	330.481	5.450	0.089
			Max. Compression	18	-375.633	0.000	-0.000
			Max. Mx	18	-375.610	-7.451	-0.115
			Max. My	24	-26.877	0.169	2.801
		Diagonal	Max. Vy	18	-14.890	0.000	-0.000
			Max. Vx	24	-5.282	0.169	2.801
			Max Tension	8	10.256	0.000	0.000
			Max. Compression	8	-10.201	0.000	0.000
			Max. Mx	33	-0.646	0.211	-0.019
			Max. My	38	-2.162	0.208	0.019
			Max. Vy	33	0.093	0.211	-0.019
			Max. Vx	38	0.004	0.000	0.000

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	374.846	24.764	-14.098
	Max. H _x	18	374.846	24.764	-14.098
	Max. H _z	5	-287.197	-19.336	13.556
	Min. Vert	7	-329.541	-23.473	13.301
	Min. H _x	7	-329.541	-23.473	13.301
	Min. H _z	18	374.846	24.764	-14.098
Leg B	Max. Vert	10	372.543	-24.824	-13.761
	Max. H _x	23	-327.775	23.556	12.912
	Max. H _z	25	-285.681	19.437	13.137
	Min. Vert	23	-327.775	23.556	12.912
	Min. H _x	10	372.543	-24.824	-13.761
	Min. H _z	10	372.543	-24.824	-13.761
Leg A	Max. Vert	2	373.168	-0.113	28.290
	Max. H _x	19	-149.233	4.410	-12.725
	Max. H _z	2	373.168	-0.113	28.290
	Min. Vert	15	-316.501	0.130	-25.884
	Min. H _x	9	23.598	-4.351	1.329
	Min. H _z	15	-316.501	0.130	-25.884

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _x K	Shear _z K	Overturning Moment, M _x kip-ft	Overturning Moment, M _z kip-ft	Torque kip-ft
Dead Only	44.638	-0.000	0.000	4.827	2.469	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	53.565	0.000	-49.273	-6000.349	2.987	-4.135
0.9 Dead+1.0 Wind 0 deg - No Ice	40.174	0.000	-49.272	-5991.517	2.240	-4.131
1.2 Dead+1.0 Wind 30 deg - No Ice	53.565	24.527	-39.969	-4892.040	-3045.503	10.533

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	<p>Client</p> <p>Harmoni(UNITI) Towers</p>	<p>Designed by</p> <p>xjones</p>

Load Combination	Vertical K	Shear _x K	Shear _y K	Overturning Moment, M _x kip-ft	Overturning Moment, M _y kip-ft	Torque kip-ft
Ice						
0.9 Dead+1.0 Wind 30 deg - No Ice	40.174	24.527	-39.968	-4885.091	-3041.067	10.528
1.2 Dead+1.0 Wind 60 deg - No Ice	53.565	40.791	-23.253	-2862.720	-5043.891	6.159
0.9 Dead+1.0 Wind 60 deg - No Ice	40.174	40.791	-23.253	-2859.440	-5036.275	6.146
1.2 Dead+1.0 Wind 90 deg - No Ice	53.565	47.530	-1.164	-171.155	-5833.749	2.942
0.9 Dead+1.0 Wind 90 deg - No Ice	40.174	47.529	-1.165	-172.374	-5824.518	2.923
1.2 Dead+1.0 Wind 120 deg - No Ice	53.565	43.870	23.005	2735.655	-5336.991	14.038
0.9 Dead+1.0 Wind 120 deg - No Ice	40.174	43.868	23.004	2729.512	-5328.600	14.018
1.2 Dead+1.0 Wind 150 deg - No Ice	53.565	23.031	39.777	4871.054	-2815.850	18.260
0.9 Dead+1.0 Wind 150 deg - No Ice	40.174	23.030	39.776	4861.272	-2811.721	18.248
1.2 Dead+1.0 Wind 180 deg - No Ice	53.565	0.000	45.141	5581.795	2.985	4.134
0.9 Dead+1.0 Wind 180 deg - No Ice	40.174	0.000	45.142	5571.056	2.239	4.129
1.2 Dead+1.0 Wind 210 deg - No Ice	53.565	-23.129	39.948	4900.570	2838.882	-5.430
0.9 Dead+1.0 Wind 210 deg - No Ice	40.174	-23.128	39.947	4890.732	2833.228	-5.425
1.2 Dead+1.0 Wind 240 deg - No Ice	53.565	-44.038	23.103	2752.490	5372.179	-2.162
0.9 Dead+1.0 Wind 240 deg - No Ice	40.174	-44.037	23.102	2746.315	5362.238	-2.145
1.2 Dead+1.0 Wind 270 deg - No Ice	53.565	-47.530	-1.164	-171.156	5839.702	-2.943
0.9 Dead+1.0 Wind 270 deg - No Ice	40.174	-47.529	-1.165	-172.375	5828.977	-2.924
1.2 Dead+1.0 Wind 300 deg - No Ice	53.565	-40.622	-23.156	-2845.821	5020.646	-18.037
0.9 Dead+1.0 Wind 300 deg - No Ice	40.174	-40.622	-23.156	-2842.571	5011.590	-18.019
1.2 Dead+1.0 Wind 330 deg - No Ice	53.565	-24.429	-39.798	-4862.489	3034.439	-23.363
0.9 Dead+1.0 Wind 330 deg - No Ice	40.174	-24.428	-39.797	-4855.596	3028.539	-23.351
1.2 Dead+1.0 Ice+1.0 Temp	153.112	0.000	-0.001	29.460	27.398	-0.000
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	153.112	0.000	-6.786	-840.397	27.728	-1.394
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	153.112	3.404	-5.671	-699.480	-413.457	0.205
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	153.112	5.790	-3.316	-397.316	-719.398	0.425
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	153.112	6.735	-0.104	13.829	-836.760	0.929
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	153.112	6.012	3.263	441.775	-741.243	2.238
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	153.112	3.271	5.655	756.575	-392.721	2.609
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	153.112	0.000	6.479	866.888	27.720	1.393
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	153.112	-3.279	5.669	759.025	449.578	0.253
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	153.112	-6.026	3.271	443.183	799.139	-0.067

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Load Combination	Vertical K	Shear ₁ K	Shear ₂ K	Overturing Moment, M ₁ kip-ft	Overturing Moment, M ₂ kip-ft	Torque kip-ft
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 270	153.112	-6.735	-0.104	13.826	892.204	-0.930
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 300	153.112	-5.776	-3.308	-395.903	772.392	-2.597
deg+1.0 Ice+1.0 Temp						
1.2 Dead+1.0 Wind 330	153.112	-3.396	-5.657	-697.029	467.491	-3.067
deg+1.0 Ice+1.0 Temp						
Dead+Wind 0 deg - Service	44.638	0.000	-16.089	-1954.161	2.480	-1.349
Dead+Wind 30 deg - Service	44.638	8.009	-13.051	-1592.657	-991.838	3.453
Dead+Wind 60 deg - Service	44.638	13.320	-7.593	-930.813	-1643.725	2.008
Dead+Wind 90 deg - Service	44.638	15.520	-0.380	-52.874	-1901.271	0.942
Dead+Wind 120 deg - Service	44.638	14.324	7.512	895.239	-1739.250	4.577
Dead+Wind 150 deg - Service	44.638	7.520	12.988	1591.727	-916.926	5.973
Dead+Wind 180 deg - Service	44.638	0.000	14.740	1823.635	2.479	1.349
Dead+Wind 210 deg - Service	44.638	-7.552	13.044	1601.358	927.447	-1.785
Dead+Wind 240 deg - Service	44.638	-14.379	7.543	900.738	1753.739	-0.699
Dead+Wind 270 deg - Service	44.638	-15.520	-0.380	-52.874	1906.228	-0.942
Dead+Wind 300 deg - Service	44.638	-13.264	-7.561	-925.308	1639.154	-5.885
Dead+Wind 330 deg - Service	44.638	-7.976	-12.995	-1583.023	991.238	-7.641

Solution Summary

Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
1	0.000	-44.638	0.000	0.000	44.638	-0.000	0.000%
2	0.000	-53.565	-49.275	-0.000	53.565	49.273	0.002%
3	0.000	-40.174	-49.275	-0.000	40.174	49.272	0.005%
4	24.528	-53.565	-39.970	-24.527	53.565	39.969	0.002%
5	24.528	-40.174	-39.970	-24.527	40.174	39.968	0.004%
6	40.793	-53.565	-23.255	-40.791	53.565	23.253	0.004%
7	40.793	-40.174	-23.255	-40.791	40.174	23.253	0.003%
8	47.532	-53.565	-1.164	-47.530	53.565	1.164	0.002%
9	47.532	-40.174	-1.164	-47.529	40.174	1.165	0.004%
10	43.871	-53.565	23.006	-43.870	53.565	-23.005	0.002%
11	43.871	-40.174	23.006	-43.868	40.174	-23.004	0.005%
12	23.031	-53.565	39.778	-23.031	53.565	-39.777	0.002%
13	23.031	-40.174	39.778	-23.030	40.174	-39.776	0.004%
14	0.000	-53.565	45.144	-0.000	53.565	-45.141	0.004%
15	0.000	-40.174	45.144	-0.000	40.174	-45.142	0.003%
16	-23.130	-53.565	39.949	23.129	53.565	-39.948	0.002%
17	-23.130	-40.174	39.949	23.128	40.174	-39.947	0.004%
18	-44.040	-53.565	23.103	44.038	53.565	-23.103	0.002%
19	-44.040	-40.174	23.103	44.037	40.174	-23.102	0.005%
20	-47.532	-53.565	-1.164	47.530	53.565	1.164	0.002%
21	-47.532	-40.174	-1.164	47.529	40.174	1.165	0.004%
22	-40.624	-53.565	-23.157	40.622	53.565	23.156	0.004%
23	-40.624	-40.174	-23.157	40.622	40.174	23.156	0.003%
24	-24.429	-53.565	-39.799	24.429	53.565	39.798	0.002%
25	-24.429	-40.174	-39.799	24.428	40.174	39.797	0.004%
26	0.000	-153.112	0.000	-0.000	153.112	0.001	0.001%
27	0.000	-153.112	-6.786	-0.000	153.112	6.786	0.000%
28	3.404	-153.112	-5.672	-3.404	153.112	5.671	0.000%
29	5.791	-153.112	-3.317	-5.790	153.112	3.316	0.000%
30	6.735	-153.112	-0.104	-6.735	153.112	0.104	0.000%
31	6.012	-153.112	3.263	-6.012	153.112	-3.263	0.000%
32	3.271	-153.112	5.656	-3.271	153.112	-5.655	0.000%
33	0.000	-153.112	6.480	-0.000	153.112	-6.479	0.000%

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Load Comb.	Sum of Applied Forces			Sum of Reactions			% Error
	PX K	PY K	PZ K	PX K	PY K	PZ K	
34	-3.279	-153.112	5.670	3.279	153.112	-5.669	0.000%
35	-6.026	-153.112	3.271	6.026	153.112	-3.271	0.000%
36	-6.735	-153.112	-0.104	6.735	153.112	0.104	0.000%
37	-5.777	-153.112	-3.309	5.776	153.112	3.308	0.000%
38	-3.396	-153.112	-5.658	3.396	153.112	5.657	0.000%
39	0.000	-44.638	-16.090	-0.000	44.638	16.089	0.002%
40	8.009	-44.638	-13.051	-8.009	44.638	13.051	0.002%
41	13.320	-44.638	-7.593	-13.320	44.638	7.593	0.002%
42	15.521	-44.638	-0.380	-15.520	44.638	0.380	0.002%
43	14.325	-44.638	7.512	-14.324	44.638	-7.512	0.002%
44	7.520	-44.638	12.989	-7.520	44.638	-12.988	0.002%
45	0.000	-44.638	14.741	-0.000	44.638	-14.740	0.002%
46	-7.553	-44.638	13.045	7.552	44.638	-13.044	0.002%
47	-14.380	-44.638	7.544	14.379	44.638	-7.543	0.002%
48	-15.521	-44.638	-0.380	15.520	44.638	0.380	0.002%
49	-13.265	-44.638	-7.561	13.264	44.638	7.561	0.002%
50	-7.977	-44.638	-12.996	7.976	44.638	12.995	0.002%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001
2	Yes	12	0.00000001	0.00006855
3	Yes	11	0.00005382	0.00013450
4	Yes	12	0.00000001	0.00005989
5	Yes	11	0.00000001	0.00011377
6	Yes	11	0.00005256	0.00013197
7	Yes	11	0.00000001	0.00009460
8	Yes	12	0.00000001	0.00005995
9	Yes	11	0.00000001	0.00011396
10	Yes	12	0.00000001	0.00006830
11	Yes	11	0.00005363	0.00013397
12	Yes	12	0.00000001	0.00006060
13	Yes	11	0.00000001	0.00011544
14	Yes	11	0.00005281	0.00013274
15	Yes	11	0.00000001	0.00009525
16	Yes	12	0.00000001	0.00006066
17	Yes	11	0.00000001	0.00011560
18	Yes	12	0.00000001	0.00006837
19	Yes	11	0.00005371	0.00013414
20	Yes	12	0.00000001	0.00005994
21	Yes	11	0.00000001	0.00011394
22	Yes	11	0.00005260	0.00013204
23	Yes	11	0.00000001	0.00009468
24	Yes	12	0.00000001	0.00005982
25	Yes	11	0.00000001	0.00011359
26	Yes	8	0.00000001	0.00012028
27	Yes	12	0.00000001	0.00012933
28	Yes	12	0.00000001	0.00012625
29	Yes	12	0.00000001	0.00012699
30	Yes	12	0.00000001	0.00012993
31	Yes	12	0.00000001	0.00013381
32	Yes	12	0.00000001	0.00013283
33	Yes	12	0.00000001	0.00013360
34	Yes	12	0.00000001	0.00013513

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35	Yes	12	0.00000001	0.00013757
36	Yes	12	0.00000001	0.00013415
37	Yes	12	0.00000001	0.00013061
38	Yes	12	0.00000001	0.00012835
39	Yes	11	0.00000001	0.00012703
40	Yes	11	0.00000001	0.00012024
41	Yes	11	0.00000001	0.00011449
42	Yes	11	0.00000001	0.00012021
43	Yes	11	0.00000001	0.00012677
44	Yes	11	0.00000001	0.00012088
45	Yes	11	0.00000001	0.00011493
46	Yes	11	0.00000001	0.00012091
47	Yes	11	0.00000001	0.00012679
48	Yes	11	0.00000001	0.00012016
49	Yes	11	0.00000001	0.00011447
50	Yes	11	0.00000001	0.00012017

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	200 - 180	8.743	47	0.341	0.063
T2	180 - 160	7.252	47	0.336	0.062
T3	160 - 140	5.778	47	0.312	0.061
T4	140 - 120	4.445	47	0.273	0.055
T5	120 - 100	3.300	47	0.228	0.045
T6	100 - 80	2.341	47	0.185	0.036
T7	80 - 60	1.557	47	0.145	0.027
T8	60 - 40	0.939	47	0.108	0.019
T9	40 - 20	0.471	47	0.070	0.012
T10	20 - 0	0.166	47	0.035	0.006

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
200.000	Lightning Rod 1"x10'	47	8.743	0.341	0.063	887501
193.000	Sector1(CaAa=13333.33 Sq in)No Ice	47	8.222	0.340	0.063	633927
181.000	Sector1(CaAa=10000 Sq in)No Ice	47	7.327	0.336	0.062	300776
169.000	Sector1(CaAa=10000 Sq in)No Ice	47	6.432	0.325	0.062	53577
157.000	6' MW Dish	47	5.567	0.306	0.061	26687
145.000	6' MW Dish	47	4.761	0.283	0.057	25378

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	200 - 180	26.796	18	1.043	0.193
T2	180 - 160	22.229	18	1.028	0.191
T3	160 - 140	17.712	18	0.954	0.188
T4	140 - 120	13.628	18	0.834	0.167
T5	120 - 100	10.117	18	0.699	0.138
T6	100 - 80	7.180	18	0.566	0.110
T7	80 - 60	4.774	18	0.443	0.083
T8	60 - 40	2.883	18	0.330	0.060
T9	40 - 20	1.446	18	0.213	0.036
T10	20 - 0	0.510	18	0.108	0.018

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
200.000	Lightning Rod 1"x10'	18	26.796	1.043	0.193	304053
193.000	Sector1(CaAa=13333.33 Sq.in)No Ice	18	25.200	1.042	0.192	217181
181.000	Sector1(CaAa=10000 Sq.in)No Ice	18	22.458	1.030	0.191	104630
169.000	Sector1(CaAa=10000 Sq.in)No Ice	18	19.715	0.995	0.191	17707
157.000	6' MW Dish	18	17.065	0.938	0.186	8739
145.000	6' MW Dish	18	14.597	0.866	0.174	8330

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	Allowable Ratio	Criteria	
								Load Allowable			
T1	200	Diagonal	A325X	0.625	1	3.120	9.598	0.325	✓	1	Member Block Shear
		Top Girt	A325X	0.625	1	0.557	9.598	0.058	✓	1	Member Block Shear
T2	180	Leg	A325N	0.750	6	2.614	30.101	0.087	✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	6.360	9.598	0.663	✓	1	Member Block Shear
T3	160	Leg	A325N	0.750	6	9.046	30.101	0.301	✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	7.978	10.740	0.743	✓	1	Member Block Shear
T4	140	Leg	A325N	0.750	6	15.961	30.101	0.530	✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	7.934	13.025	0.609	✓	1	Member Block Shear
T5	120	Leg	A325N	0.750	6	22.767	30.101	0.756	✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	8.088	13.025	0.621	✓	1	Member Block Shear
T6	100	Leg	A325N	0.750	6	28.916	30.101	0.961	✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	8.348	13.025	0.641	✓	1	Member Block Shear

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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
T7	80	Leg	A325N	1.000	6	34.628	54.517	0.635 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	9.005	14.168	0.636 ✓	1	Member Block Shear
T8	60	Leg	A325N	1.000	6	40.066	54.517	0.735 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	9.323	14.168	0.658 ✓	1	Member Block Shear
T9	40	Leg	A325N	1.000	6	45.273	54.517	0.830 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	10.012	17.257	0.580 ✓	1	Bolt Shear
T10	20	Leg	A325N	1.000	6	50.296	54.517	0.923 ✓	1	Bolt Tension
		Diagonal	A325X	0.625	1	10.256	17.257	0.594 ✓	1	Bolt 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 P _u / φP _n
T1	200 - 180	1 3/4	20.019	4.754	130.4 K=1.00	2.405	-16.162	31.952	0.506 ¹ ✓
T2	180 - 160	2 1/4	20.019	4.754	101.4 K=1.00	3.976	-56.400	84.331	0.669 ¹ ✓
T3	160 - 140	2 1/2	20.019	4.754	91.3 K=1.00	4.909	-101.637	120.108	0.846 ¹ ✓
T4	140 - 120	2 3/4	20.019	4.754	83.0 K=1.00	5.940	-146.312	161.540	0.906 ¹ ✓
T5	120 - 100	3	20.019	4.754	76.1 K=1.00	7.069	-187.084	208.347	0.898 ¹ ✓
T6	100 - 80	3 1/4	20.019	4.754	70.2 K=1.00	8.296	-225.521	260.312	0.866 ¹ ✓
T7	80 - 60	3 1/2	20.019	4.754	65.2 K=1.00	9.621	-263.110	317.273	0.829 ¹ ✓
T8	60 - 40	3 1/2	20.019	4.754	65.2 K=1.00	9.621	-299.790	317.273	0.945 ¹ ✓
T9	40 - 20	3 3/4	20.019	4.754	60.9 K=1.00	11.045	-336.066	379.106	0.886 ¹ ✓
T10	20 - 0	3 3/4	20.019	4.754	60.9 K=1.00	11.045	-370.795	379.106	0.978 ¹ ✓

¹ P_u / φP_n controls

Diagonal Design Data (Compression)

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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	200 - 180	L1 3/4x1 3/4x3/16	7.485	3.764	131.5 K=1.00	0.621	-2.769	10.280	0.269 ¹ ✓
T2	180 - 160	L1 3/4x1 3/4x3/16	8.697	4.343	151.7 K=1.00	0.621	-5.862	7.721	0.759 ¹ ✓
T3	160 - 140	L2x2x3/16	9.987	4.976	151.6 K=1.00	0.715	-7.222	8.909	0.811 ¹ ✓
T4	140 - 120	L2 1/2x2 1/2x3/16	11.329	5.636	136.6 K=1.00	0.902	-7.353	13.828	0.532 ¹ ✓
T5	120 - 100	L2 1/2x2 1/2x3/16	12.706	6.314	153.1 K=1.00	0.902	-7.655	11.018	0.695 ¹ ✓
T6	100 - 80	L2 1/2x2 1/2x3/16	14.108	7.005	169.8 K=1.00	0.902	-8.047	8.952	0.899 ¹ ✓
T7	80 - 60	L3x3x3/16	15.529	7.705	155.1 K=1.00	1.090	-8.662	12.964	0.668 ¹ ✓
T8	60 - 40	L3x3x3/16	16.963	8.422	169.6 K=1.00	1.090	-9.038	10.849	0.833 ¹ ✓
T9	40 - 20	L3x3x1/4	18.408	9.134	185.2 K=1.00	1.440	-9.649	12.022	0.803 ¹ ✓
T10	20 - 0	L3x3x1/4	19.861	9.861	199.9 K=1.00	1.440	-9.841	10.315	0.954 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	200 - 180	L1 3/4x1 3/4x3/16	4.538	4.392	153.4 K=1.00	0.621	-0.599	7.550	0.079 ¹ ✓

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	200 - 180	1 3/4	20.019	0.500	13.7	2.405	15.696	108.238	0.145 ¹ ✓
T2	180 - 160	2 1/4	20.019	0.500	10.7	3.976	54.284	178.924	0.303 ¹ ✓

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Section No.	Elevation ft	Size	L ft	L _u ft	Kl/r	A in ²	P _u K	φP _n K	Ratio $\frac{P_u}{\phi P_n}$
T3	160 - 140	2 1/2	20.019	0.500	9.6	4.909	95.778	220.893	0.434 ¹
T4	140 - 120	2 3/4	20.019	0.500	8.7	5.940	136.613	267.281	0.511 ¹
T5	120 - 100	3	20.019	0.500	8.0	7.069	173.510	318.086	0.545 ¹
T6	100 - 80	3 1/4	20.019	0.500	7.4	8.296	207.781	373.310	0.557 ¹
T7	80 - 60	3 1/2	20.019	0.500	6.9	9.621	240.413	432.951	0.555 ¹
T8	60 - 40	3 1/2	20.019	0.500	6.9	9.621	271.657	432.951	0.627 ¹
T9	40 - 20	3 3/4	20.019	0.500	6.4	11.045	301.795	497.010	0.607 ¹
T10	20 - 0	3 3/4	20.019	0.500	6.4	11.045	330.481	497.010	0.665 ¹

¹ P_u / φP_n controls

Diagonal 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	200 - 180	L1 3/4x1 3/4x3/16	7.485	3.764	84.1	0.360	3.120	17.567	0.178 ¹
T2	180 - 160	L1 3/4x1 3/4x3/16	8.697	4.343	97.1	0.360	6.360	17.567	0.362 ¹
T3	160 - 140	L2x2x3/16	9.987	4.976	96.8	0.431	7.978	21.001	0.380 ¹
T4	140 - 120	L2 1/2x2 1/2x3/16	11.329	5.636	86.9	0.571	7.934	27.838	0.285 ¹
T5	120 - 100	L2 1/2x2 1/2x3/16	12.706	6.314	97.4	0.571	8.088	27.838	0.291 ¹
T6	100 - 80	L2 1/2x2 1/2x3/16	14.108	7.005	108.0	0.571	8.348	27.838	0.300 ¹
T7	80 - 60	L3x3x3/16	15.529	7.705	98.5	0.712	9.005	34.712	0.259 ¹
T8	60 - 40	L3x3x3/16	16.963	8.422	107.6	0.712	9.323	34.712	0.269 ¹
T9	40 - 20	L3x3x1/4	18.408	9.134	117.9	0.939	10.012	45.794	0.219 ¹
T10	20 - 0	L3x3x1/4	19.861	9.861	127.2	0.939	10.256	45.794	0.224 ¹

¹ P_u / φP_n controls

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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 $\frac{P_u}{\phi P_n}$ ¹
T1	200 - 180	L1 3/4x1 3/4x3/16	4.538	4.392	98.1	0.360	0.557	17.567	0.032 ¹ ✓

¹ P_u / φP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	φP _{allow} K	% Capacity	Pass Fail	
T1	200 - 180	Leg	1 3/4	3	-16.162	31.952	50.6	Pass	
T2	180 - 160	Leg	2 1/4	33	-56.400	84.331	66.9	Pass	
T3	160 - 140	Leg	2 1/2	60	-101.637	120.108	84.6	Pass	
T4	140 - 120	Leg	2 3/4	87	-146.312	161.540	90.6	Pass	
T5	120 - 100	Leg	3	114	-187.084	208.347	89.8	Pass	
T6	100 - 80	Leg	3 1/4	141	-225.521	260.312	86.6	Pass	
							96.1 (b)		
T7	80 - 60	Leg	3 1/2	166	-263.110	317.273	82.9	Pass	
T8	60 - 40	Leg	3 1/2	193	-299.790	317.273	94.5	Pass	
T9	40 - 20	Leg	3 3/4	220	-336.066	379.106	88.6	Pass	
T10	20 - 0	Leg	3 3/4	247	-370.795	379.106	97.8	Pass	
T1	200 - 180	Diagonal	L1 3/4x1 3/4x3/16	8	-2.769	10.280	26.9	Pass	
							32.5 (b)		
T2	180 - 160	Diagonal	L1 3/4x1 3/4x3/16	36	-5.862	7.721	75.9	Pass	
T3	160 - 140	Diagonal	L2x2x3/16	61	-7.222	8.909	81.1	Pass	
T4	140 - 120	Diagonal	L2 1/2x2 1/2x3/16	89	-7.353	13.828	53.2	Pass	
							60.9 (b)		
T5	120 - 100	Diagonal	L2 1/2x2 1/2x3/16	116	-7.655	11.018	69.5	Pass	
T6	100 - 80	Diagonal	L2 1/2x2 1/2x3/16	143	-8.047	8.952	89.9	Pass	
T7	80 - 60	Diagonal	L3x3x3/16	170	-8.662	12.964	66.8	Pass	
T8	60 - 40	Diagonal	L3x3x3/16	197	-9.038	10.849	83.3	Pass	
T9	40 - 20	Diagonal	L3x3x1/4	224	-9.649	12.022	80.3	Pass	
T10	20 - 0	Diagonal	L3x3x1/4	251	-9.841	10.315	95.4	Pass	
T1	200 - 180	Top Girt	L1 3/4x1 3/4x3/16	4	-0.599	7.550	7.9	Pass	
							Summary		
							Leg (T10)	97.8	Pass
							Diagonal (T10)	95.4	Pass
							Top Girt (T1)	7.9	Pass
							Bolt Checks	96.1	Pass
							RATING =	97.8	Pass

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 ▼
<input type="text"/>				

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	Oak Hill	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	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, Inc. d/b/a Touch Base Communications	Cellular D	Neptune	NJ
View	4111450	Spectrum Mobile, LLC	Cellular A	St. Louis	MO
View	4200100	Sprint Spectrum, L.P.	Cellular A	Atlanta	GA
View	4200500	SprintCom, Inc.	Cellular A	Atlanta	GA
View	4111600	STX Group LLC dba Twigby	Cellular D	Murfreesboro	TN
View	4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular D	Red Bluff	CA
View	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular A	Bellevue	WA
View	4002500	TAG Mobile, LLC	Cellular D	Plano	TX
View	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular D	Portland	ME
View	4107200	Telefonica USA, Inc.	Cellular D	Miami	FL

View	4108900	Telrite Corporation	Cellular D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular B	Atlanta	GA
View	4109000	Ting, Inc.	Cellular A	Toronto	ON
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

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-21916-OE

Issued Date: 09/08/2020

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 KYBGN2026 Edmonton
 Location: Columbia, KY
 Latitude: 37-02-41.72N NAD 83
 Longitude: 85-27-27.50W
 Heights: 896 feet site elevation (SE)
 212 feet above ground level (AGL)
 1108 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)
- Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

This determination expires on 03/08/2022 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 (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASO-21916-OE.

Signature Control No: 446196134-450266565
Angelique Eersteling
Technician

(DNE)

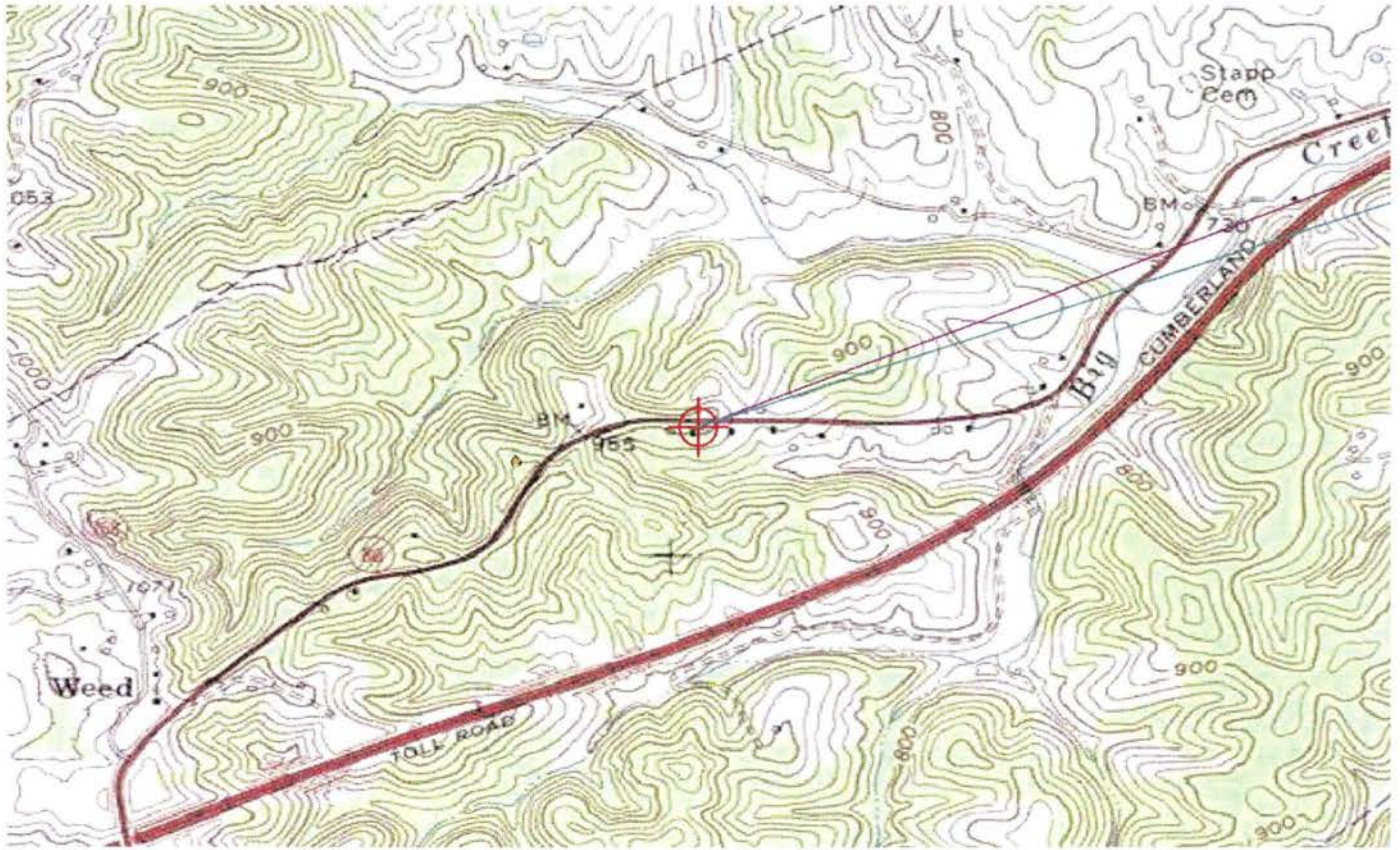
Attachment(s)
Frequency Data
Map(s)

cc: FCC

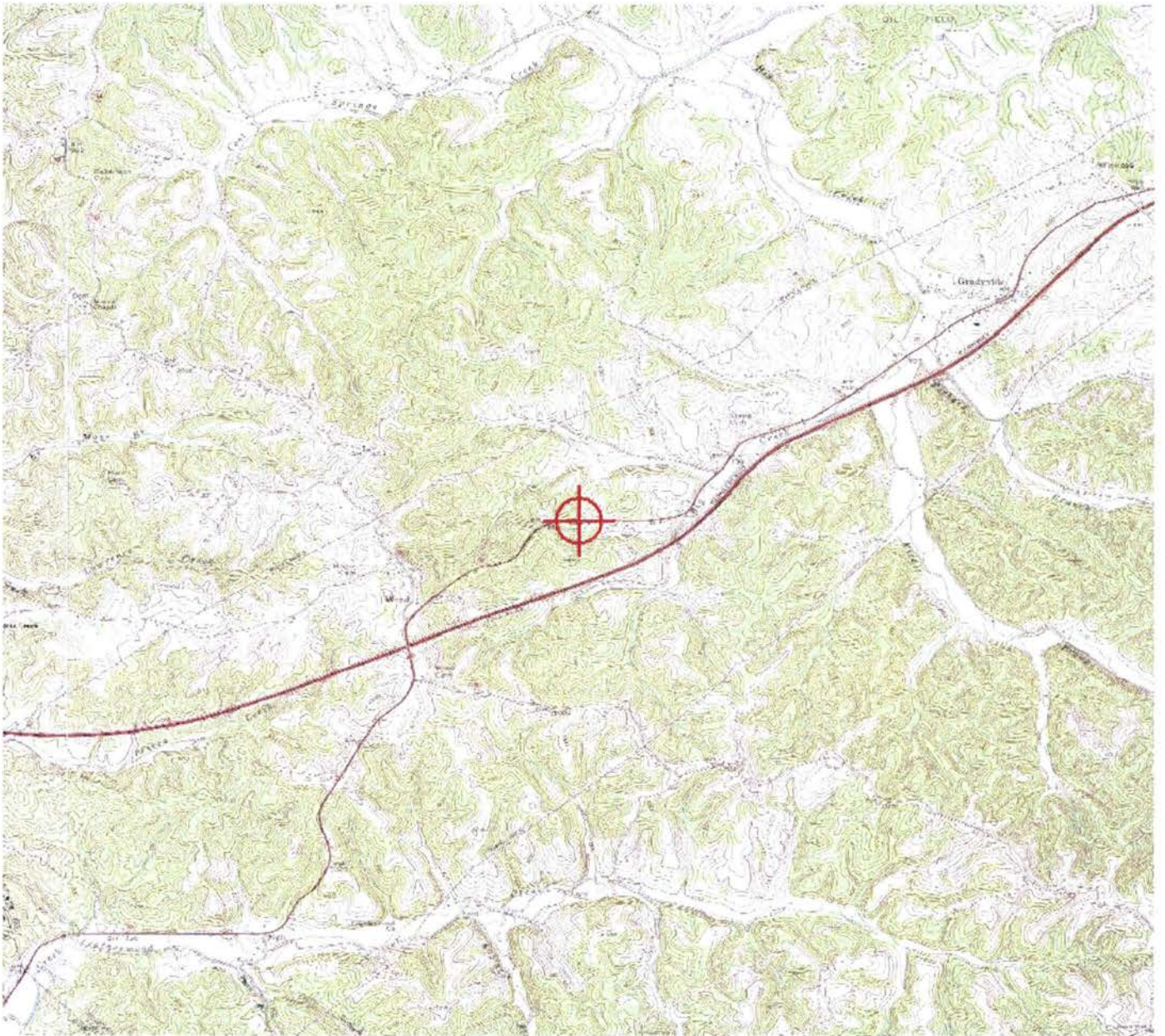
Frequency Data for ASN 2020-ASO-21916-OE

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

Verified Map for ASN 2020-ASO-21916-OE



TOPO Map for ASN 2020-ASO-21916-OE



Sectional Map for ASN 2020-ASO-21916-OE

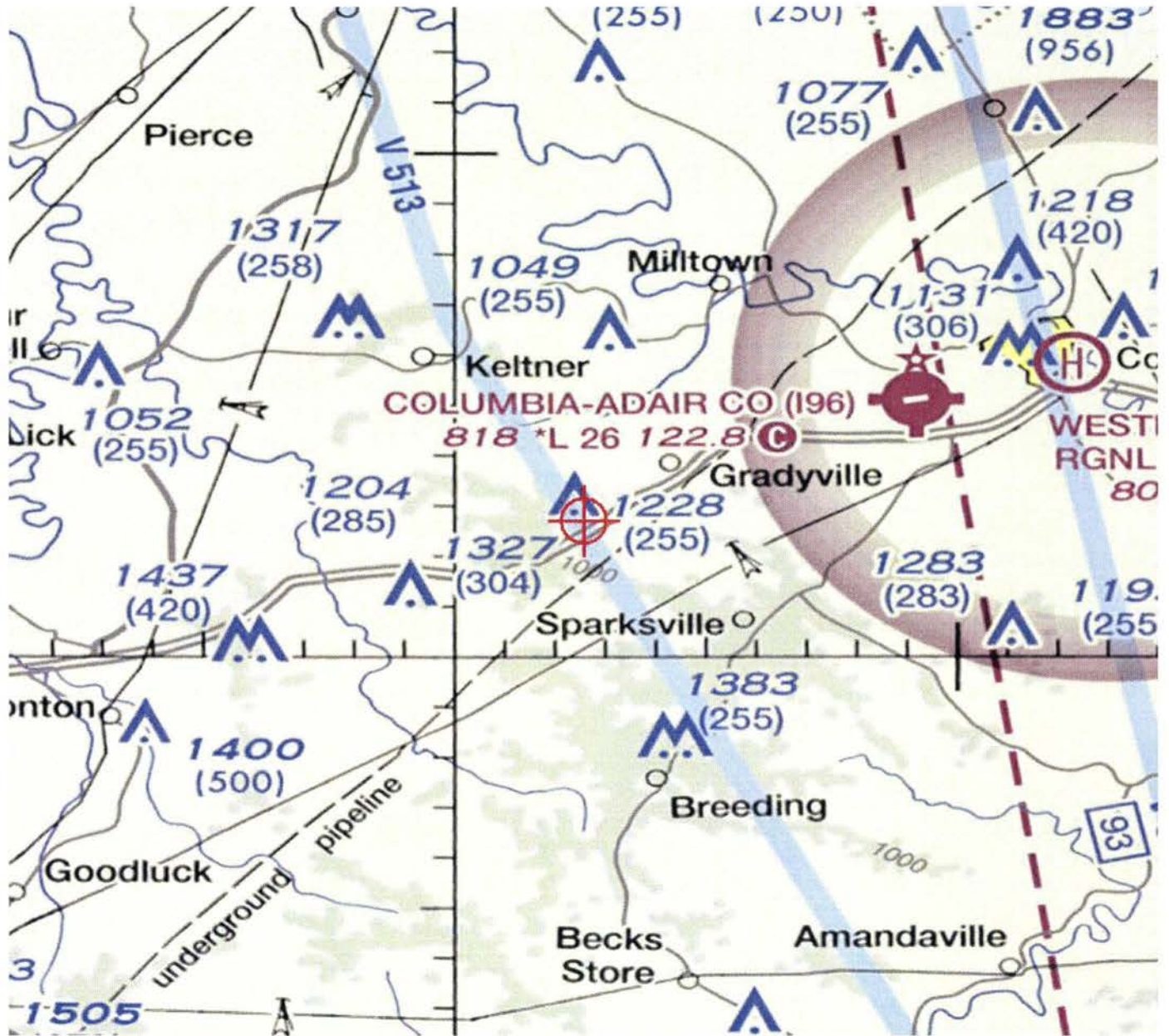



EXHIBIT F
KENTUCKY AIRPORT ZONING COMMISSION



KENTUCKY TRANSPORTATION CABINET
KENTUCKY AIRPORT ZONING COMMISSION

TC 55-2
Rev. 05/2017
Page 2 of 2

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (name) Uniti Towers		PHONE	FAX	KY AERONAUTICAL STUDY #	
ADDRESS (street) 10802 Executive Center Dr. Ste 300		CITY Little Rock		STATE AR	ZIP 72211
APPLICANT'S REPRESENTATIVE (name) B&T Group - Patricia Parr		PHONE 501-232-7860	FAX 918-295-0265		
ADDRESS (street) 1717 S Boulder Ave Ste 300		CITY Tulsa		STATE OK	ZIP 74119
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days)				Start End	
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building <input checked="" type="checkbox"/> Antenna Tower <input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank <input type="checkbox"/> Landfill <input type="checkbox"/> Other		MARKING/PAINTING/LIGHTING PREFERRED <input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity <input checked="" type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white <input type="checkbox"/> Other			
LATITUDE 37 ° 02 ' 41 . 72 "		LONGITUDE -85 ° 27 ' 27 . 50 "		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27 <input type="checkbox"/> Other	
NEAREST KENTUCKY Columbia City County Adair		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT 196			
SITE ELEVATION (AMSL, feet) 896		TOTAL STRUCTURE HEIGHT (AGL, feet) 212		CURRENT (FAA aeronautical study #) 2020-ASO-21916-OE	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1108				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) 34921.28 ft				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure)					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.)					
DESCRIPTION OF PROPOSAL Uniti Towers LLC, proposes to construct a 212' antenna tower for the purpose of enhancing the coverage of their tenants' subscribers.					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? 09/08/20					
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)					
PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)					
NAME Patricia Parr	TITLE Sr. Real Estate Specialist	SIGNATURE  2020 09 28 08 18 04 05 00		DATE 09/28/2020	
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC <input type="checkbox"/> Administrator, KAZC			
<input type="checkbox"/> Approved		SIGNATURE		DATE	
<input type="checkbox"/> Disapproved					

Close Print

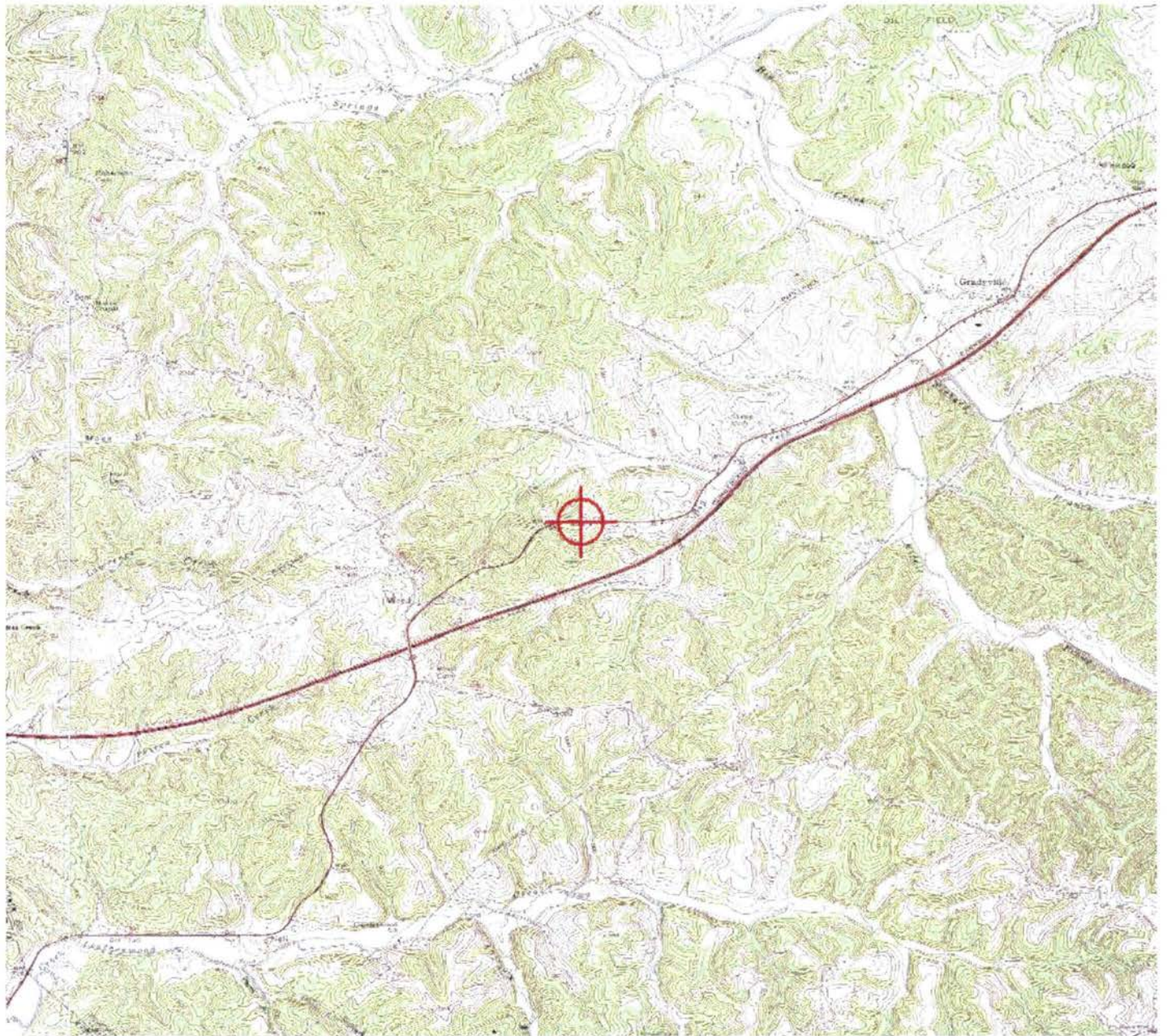


EXHIBIT G
GEO TECHNICAL REPORT



GEOTECHNICAL INVESTIGATION REPORT

November 23, 2020

Prepared For:

B+T Group



**Edmonton Road
KYBGN2026**

Proposed 212-Foot Self-Supporting Tower

7481 Edmonton Road, Columbia (Adair County), Kentucky 42728
Latitude N 37° 02' 41.7" Longitude W 85° 27' 27.5"

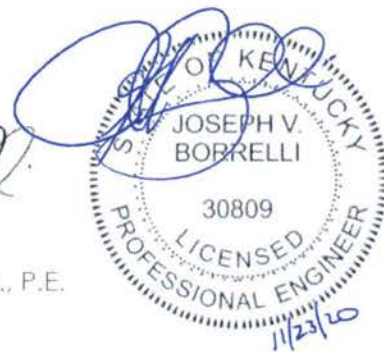
Delta Oaks Group Project GEO20-07389-08
Revision 0
geotech@deltaoaksgroup.com

Performed By:

Justin Brosseau, E.I.

Reviewed By:

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





INTRODUCTION

This geotechnical investigation report has been completed for the proposed 212-foot self-supporting tower located on 7481 Edmonton Road in Columbia (Adair 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 gravel lot exhibiting a gradually sloping topography from northwest to southeast across the tower compound and subject property.

REFERENCES

- Survey Drawings, prepared by Point to Point Land Surveyors, dated March 28, 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 termination depth of 2.7 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 10.0 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

Fill material was encountered during the subsurface field investigation from the existing ground surface to a depth of 1.0 foot bgs. The fill material included gravel.

SOIL

The residual soil encountered in the subsurface field investigation began at a depth of 1.0 foot bgs in the boring and consisted of silty clay. The materials consisted of a very hard cohesion.

Auger advancement refusal was encountered during the subsurface field investigation at a depth of 2.7 feet bgs.

ROCK

Rock was encountered during the subsurface investigation at a depth of 2.7 feet bgs. The rock can be described as moderately fractured, slightly weathered, very 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 Adair County, Kentucky is 20 inches (1.7 feet).

CORROSIVITY

Soil resistivity was performed in accordance with ASTM G187 with a test result of 2,400 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 rock anchors for the proposed structure. Delta Oaks Group does not recommend utilizing a drilled shaft foundation due to the presence of shallow hard rock. 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 – 1.0	FILL	105	0	0
	1.0 – 2.7	CL – ML	130	0	6,000
	2.7 – 12.7	LIMESTONE	140	0	10,000

- 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	Greater than 5.0 x 5.0	Greater than 3.0	30,000

- Delta Oaks Group recommends the foundation bear a minimum of 3.0 feet bgs or on bedrock.
- A sliding friction factor of 0.35 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 1.7 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	0.00	1.00	0.00
Bottom	1.0	105	0	0	105.00	1.00	52.50
Top	1.0	130	0	6000	105.00	1.00	6052.50
Bottom	1.7	130	0	6000	196.00	1.00	6098.00
Top	1.7	130	0	6000	196.00	1.00	12196.00
Bottom	2.7	130	0	6000	326.00	1.00	12326.00
Top	2.7	140	0	10000	326.00	1.00	20326.00
Bottom	10.0	140	0	10000	1348.00	1.00	21348.00



SUBSURFACE STRENGTH PARAMETERS – ROCK ANCHORS

Boring	Depth (bgs)	Rock Type	Ultimate Grout to Ground Bond Strength (psi)
B-1	0.0 – 2.7	-	-
	2.7 – 12.7	LIMESTONE	200

- The rock anchor design should extend into competent rock and have an adequate embedment length to resist the applied loads.
- Group effects can contribute to a reduction in resistance for the rock anchors and should be taken into consideration during foundation design.
- Delta Oaks Group recommends an appropriate factor of safety be utilized and the appropriate manufacturer recommendations be followed for the design of the rock anchors.



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	15,000	2.0	1,200

- 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 0.35 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	0.00	1.00	0.00
Bottom	1.0	105	0	0	105.00	1.00	52.50
Top	1.0	130	0	6000	105.00	1.00	6052.50
Bottom	1.7	130	0	6000	196.00	1.00	6098.00
Top	1.7	130	0	6000	196.00	1.00	12196.00
Bottom	2.7	130	0	6000	326.00	1.00	12326.00
Top	2.7	140	0	10000	326.00	1.00	20326.00
Bottom	10.0	140	0	10000	1348.00	1.00	21348.00



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





PROJECT NAME Edmonton Road (KYBGN2026)

CLIENT B+T Group

PROJECT NUMBER GEO20-07389-08

Boring No.: B-1

PAGE 1 OF 1

PROJECT LOCATION 7435 Edmonton Rd, Columbia, KY 42728

DATE DRILLED : 11/18/2020

DRILLING METHOD : Hollow Stem Auger

GROUND ELEVATION : 900

BORING DEPTH (ft) : 12.7

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING : -- Not Encountered

▼ AT END OF DRILLING : -- Not Encountered

▽ AFTER DRILLING : -- Not Encountered

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE TYPE	MATERIAL CLASSIFICATION	Pocket Penetrometer (tsf)	BLOWS 1st	BLOWS 2nd	BLOWS 3rd	N VALUE	▲ SPT N VALUE ▲												
									10	20	30	40	50	60	70	80	90				
0.0	FILL, gravel																				
2.5	SILTY CLAY (CL - ML), very hard, orange and brown, with sand, moist		CL-ML		5	7	50/1"	100													
5.0	LIMESTONE, gray, moderately fractured, slightly weathered, very hard																				
12.5	Refusal at 2.7 feet Bottom of borehole at 12.7 feet																				

REC ROD
91% 83%

EXHIBIT H
DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at the Adair County Judge Executive's Office, located at 424 Public Square, Suite # 1, Columbia, KY 42728, follow the traffic circle toward Burkesville Street and travel approximately 499 feet.
2. Exit the traffic circle onto KY-80 W / Burkesville Street and travel approximately 2.6 miles.
3. Turn right onto KY-80 W and travel approximately 7.5 miles.
4. The site is located on the left at 7481 Edmonton Road, Columbia, KY 42728.
5. The site coordinates are:
 - a. North 37 deg 02 min 41.72 sec
 - b. West 85 deg 27 min 27.50 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

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 Glen Wilham and Cindi Alexander, ("**Landlord**") having a mailing address of 7435 Edmonton Rd. Columbia, KY 42728, 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 7435 Edmonton Rd., in the City/Town of Columbia, County of Adair, 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 (5th) anniversary of the Term Commencement Date.

(b) This Agreement will automatically renew for seventeen (17) additional five (5) year term(s) (each additional five (5) year term shall be defined as an "**Extension Term**"), upon the same terms and

conditions set forth herein unless Tenant notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the Initial Term or 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 shall be [REDACTED]

[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 the first year of an Extension Term, the monthly Rent will increase by [REDACTED] over the Rent paid during the previous five (5) year term, 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 pays Landlord a termination fee [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]

[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 indemnified 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 or after the Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of Tenant and may be removed by Tenant at any time during or after the Term. Tenant will repair any damage to the Property resulting from Tenant's removal activities. Any portions of the Communication Facility that Tenant does not remove within one hundred twenty (120) days after the later of the end of the Term and cessation of Tenant's operations at the Premises shall be deemed abandoned and owned by Landlord. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation.

14. MAINTENANCE/UTILITIES.

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

(b) Tenant will be responsible for paying on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises. In the event Tenant cannot secure its own metered electrical supply, Tenant will have the right, at its own cost and expense,

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

(c) As noted in Section 4(c) above, any utility fee recovery by Landlord is limited to a twelve (12) month period. If Tenant submeters electricity from Landlord, Landlord agrees to give Tenant at least twenty-four (24) hours advance notice of any planned interruptions of said electricity. Landlord acknowledges that Tenant provides a communication service which requires electrical power to operate and must operate twenty-four (24) hours per day, seven (7) days per week. If the interruption is for an extended period of time, in Tenant's reasonable determination, Landlord agrees to allow Tenant the right to bring in a temporary source of power for the duration of the interruption. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.

(d) Tenant will have the right to install utilities, at Tenant's expense, and to improve present utilities on the Property and the Premises. Landlord hereby grants to any service company providing utility or similar services, including electric power and telecommunications, to Tenant an easement over the Property, from an open and improved public road to the Premises, and upon the Premises, for the purpose of constructing, operating and maintaining such lines, wires, circuits, and conduits, associated equipment cabinets and such appurtenances thereto, as such service companies may from time to time require in order to provide such services to the Premises. Upon Tenant's or service company's request, Landlord will execute a separate recordable easement evidencing this grant, at no cost to Tenant or the service company.

15. DEFAULT AND RIGHT TO CURE.

(a) The following will be deemed a default by Tenant and a breach of this Agreement: (i) non-payment of Rent if such Rent remains unpaid for more than thirty (30) days after written notice from Landlord of such failure to pay; or (ii) Tenant's failure to perform any other term or condition under this Agreement within forty-five (45) days after written notice from Landlord specifying the failure. No such failure, however, will be deemed to exist if Tenant has commenced to cure such default within such period and provided that such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Tenant. If Tenant remains in default beyond any applicable cure period, 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: Glen Wilham and Cindi Alexander
 7435 Edmonton Rd.
 Columbia, KY 42728
 Telephone: (270) 378-5411

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. TAXES.

(a) Landlord shall be responsible for (i) all taxes and assessments levied upon the lands, improvements and other property of Landlord including any such taxes that may be calculated by a taxing authority using any method, including the income method (ii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with this Agreement and (iii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with a sale of the Property or assignment of Rent payments by Landlord. Tenant shall be responsible for (y) any taxes and assessments attributable to and levied upon Tenant's leasehold improvements on the Premises if and as set forth in this Section 21 and (z) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with an assignment of this Agreement or sublease by Tenant. Nothing herein shall require Tenant to pay any inheritance, franchise, income, payroll, excise, privilege, rent, capital stock, stamp, documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Landlord.

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

(c) For any tax amount for which Tenant is responsible under this Agreement, Tenant shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as permitted by law. This right shall include the ability to institute any legal, regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate with respect to the commencement and prosecution of any such

proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant, to the extent the amounts were originally paid by Tenant. In the event Tenant notifies Landlord by the due date for assessment of Tenant's intent to contest the assessment, Landlord shall not pay the assessment pending conclusion of the contest, unless required by applicable law.

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

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

(f) Any tax-related notices shall be sent to Tenant in the manner set forth in Section 17. Promptly after the Effective Date 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"

Glen Wilham and Cindi Alexander

By: Glen Wilham Glen Wilham
Print Name: Glen Wilham
Date: 4-29-20

By: Cindi Alexander
Print Name: Cindi Alexander
Date: 4.29.2020

"TENANT"

Uniti Towers LLC

By: Dina Mayors
Print Name: Dina Mayors
Its: 100 South State
Date: 8-19-2020

[ACKNOWLEDGMENTS APPEAR ON NEXT PAGE]

TENANT ACKNOWLEDGMENT

STATE OF ARKANSAS

COUNTY OF PULASKI

On the 19th day of August, 2020 before me personally appeared Ginger Mason who VP Real Estate 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.

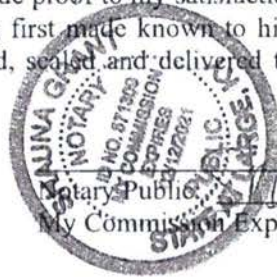


Ashley Carpenter
Notary Public: Ashley Carpenter
My Commission Expires: 4/30/28

LANDLORD ACKNOWLEDGMENT

STATE OF Kentucky
COUNTY OF Adair

BE IT REMEMBERED, that on this 29 day of April, 2020 before me, the subscriber, a person authorized to take oaths in the State of Kentucky, personally appeared **Glen Wilham** who, being duly sworn on his/her/their oath, deposed and made proof to my satisfaction that he/she/they is/are the person(s) named in the within instrument; and I, having first made known to him/her/them the contents thereof, he/she/they did acknowledge that he/she/they signed, sealed and delivered the same as his/her/their voluntary act and deed for the purposes therein contained.



Shauna Grant
Notary Public
My Commission Expires: 2-12-21

LANDLORD ACKNOWLEDGMENT

STATE OF Kentucky
COUNTY OF Adair

BE IT REMEMBERED, that on this 29 day of April, 2020 before me, the subscriber, a person authorized to take oaths in the State of Kentucky, personally appeared **Cindi Alexander** who, being duly sworn on his/her/their oath, deposed and made proof to my satisfaction that he/she/they is/are the person(s) named in the within instrument; and I, having first made known to him/her/them the contents thereof, he/she/they did acknowledge that he/she/they signed, sealed and delivered the same as his/her/their voluntary act and deed for the purposes therein contained.



Shauna Grant
Notary Public
My Commission Expires: 2-12-21

EXHIBIT 1

DESCRIPTION OF PREMISES

Page 1 of 4

to the Option and Lease Agreement dated August 19, 2020, by and between Glen Wilham and Cindi Alexander, as Landlord, and Uniti Towers LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

DESCRIPTION OF A TRACT OF LAND, BY A NEW BOUNDARY WITH DIVISION SURVEY, THE PROPERTY OF CRYSTAL GREEN ET AL RECORDED IN DEED BOOK 109 PAGE 552 IN THE ADAIR COUNTY CLERK'S OFFICE, LOCATED APPROXIMATELY 3,500.00 FEET SOUTHWEST OF G. TAYLOR ROAD AND ON THE SOUTH SIDE OF HIGHWAY #80 IN ADAIR COUNTY, COMMONWEALTH OF KENTUCKY AND MORE PARTICULARLY DESCRIBED AS FOLLOWS:

Beginning at a iron pin (Deed Call) on the south right of way of Highway #80 and the corner of Darren Adams (Deed Book 269 Page 367), thence leaving the right of way and down a drain (Deed Calls) S 05°51'54"E 246.01' to a point in the center of drain; thence S 08°49'09"E 155.00' to a mouth of drain (Deed Call) and S 67°50'08"E 30.11' from a 1.2" x 18" re-bar set with cap #3318 and corner with Barry Hamlett (Deed Book 271 Page 32); thence leaving D. Adams and mouth of drain and with B. Hamlett S 00°02'42"E 320.66' to a 1.2" x 18" re-bar set with cap #3318, witness by a wooden post, thence S 43°41'32"W 174.22' to a 1.2" x 18" re-bar set with cap #3318; thence S 56°00'56"W 174.49' to a 20" beech with new marks // as pointer to a 1.2" x 18" re-bar set with cap #3318; thence S 77°39'55"W 180.15' to a 1.2" x 18" re-bar set with cap #3318, witness by a wooden post and in the line of Charles E. Jessee (Deed Book 156 Page 343); thence leaving B. Hamlett and with C. Jessee N 69°40'06"W 850.75' to a 24" hickory (Deed Call) with new marks // as pointer to a 1.2" x 18" re-bar set with cap #3318; thence with new division line of the parent tract N 17°21'53"W 515.36' to a 1.2" x 18" re-bar set with cap #3318 on the south right of way of Highway #80, witness by a 10" hickory with 3 hack marks as pointer; thence with the right of way N 58°24'52"E 244.31' to a point, thence N 71°20'08"E 109.25' to a point; thence N 77°27'30"E 84.29' to a point; thence N 81°38'37"E 86.96' to a point; thence N 85°38'05"E 102.28' to a point; thence N 88°52'26"E 87.65' to a point; thence S 89°25'18"E 69.43' to a point; thence S 87°44'01"E 231.27' to a 1.2" x 18" re-bar set with cap #3318 witness by a power pole, thence S 89°55'45"E 373.37' to the point of beginning, contains 24.86 acres.

This survey is subject to any and all easements, restrictions and rights of way of record at this time. All bearings are based on the Magnetic North which was observed in the field N 69°40'06"W 850.75 feet from the Point of Beginning with reference bearing NE 59° along a random base line on 12/19/07.

Being the same property conveyed to Glen Wilham, single, by Deed from Kenneth Green, Administrator of the Estate of Rebecca Ruby Green, and Kenneth Green and Gladys Marcum Green, husband and wife, dated February 5, 2010, and recorded in Deed Book 312, Page 55, in the Office of the Adair County Court Clerk.

The Premises are described and/or depicted as follows:

LEASE AREA

All that tract or parcel of land lying and being in Adair County, Kentucky, and being part of the lands of Glen Wilham and Cindi Alexander, as recorded in Deed Book 312 Page 357, Adair County Records, Adair County, Kentucky, and being more particularly described as follows:

To find the point of beginning, COMMENCE at a capped rebar found (Inscribed: MCKINNEY PLS 3318) on the southerly right-of-way line of Edmonton Road, said capped rebar found having a Kentucky Grid North, NAD83, Single Zone Value of N: 3539919.0703, E: 5005721.6606 and marking the common corner of the lands of Stacie Bennett, Jo Ann Bennett, Rex Bennett and Janice Bennett, as recorded in Deed Book 311 Page 642 and said lands of Glen Wilham and Cindi Alexander; thence running along a tie line, North 75°18'00" East, 798.41 feet to a point on said southerly right-of-way line and having a Kentucky Grid North, NAD83, Single Zone Value of N: 3540121.6729, E: 5006493.9374; thence leaving said right-of-way line and running, South 00°06'10" West, 20.66 feet to a point; thence, South 89°02'03" East, 35.52 feet to a point on the Lease Area; thence running along said Lease Area, North 00°57'57" East, 15.00 feet to a point and the true POINT OF BEGINNING; Thence, South 89°02'03" East, 100.00 feet to a point; Thence, South 00°57'57" West, 80.00 feet to a point; Thence, North 89°02'03" West, 100.00 feet to a point; Thence, North 00°57'57" East, 80.00 feet to a point and the POINT OF BEGINNING.

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

Said tract contains 0.1837 acres (8,000 square feet), more or less, as shown in a survey prepared for Uniti Towers, LLC by POINT TO POINT LAND SURVEYORS, INC. dated March 28, 2020.

30' INGRESS-EGRESS & UTILITY EASEMENT

Together with a 30-foot wide Ingress-Egress and Utility Easement (lying 15 feet each side of centerline) lying and being in Adair County, Kentucky, and being part of the lands of Glen Wilham and Cindi Alexander, as recorded in Deed Book 312 Page 357, Adair County Records, Adair County, Kentucky, and being more particularly described by the following centerline data:

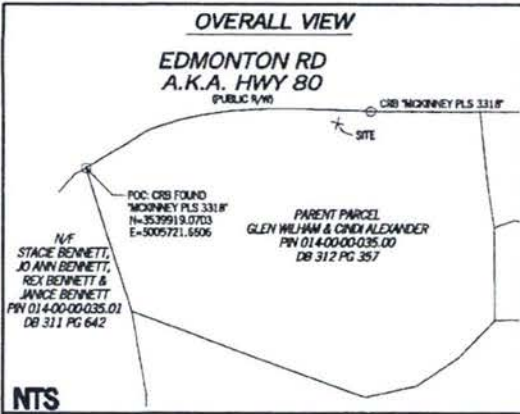
To find the point of beginning, COMMENCE at a capped rebar found (Inscribed: MCKINNEY PLS 3318) on the southerly right-of-way line of Edmonton Road, said capped rebar found having a Kentucky Grid North, NAD83, Single Zone Value of N: 3539919.0703, E: 5005721.6606 and marking the common corner of the lands of Stacie Bennett, Jo Ann Bennett, Rex Bennett and Janice Bennett, as recorded in Deed Book 311 Page 642 and said lands of Glen Wilham and Cindi Alexander; thence running along a tie line, North 75°18'00" East, 798.41 feet to a point on said southerly right-of-way line and having a Kentucky Grid North, NAD83, Single Zone Value of N: 3540121.6729, E: 5006493.9374 and the true POINT OF BEGINNING; Thence leaving said right-of-way line and running, South 00°06'10" West, 20.66 feet to a point; Thence, South 89°02'03" East, 35.52 feet to the ENDING at a point on the Lease Area.

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

As shown in a survey prepared for Uniti Towers, LLC by POINT TO POINT LAND SURVEYORS, INC. dated March 28, 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: GLEN WILHAM & CINDY ALEXANDER
 SITE ADDRESS: 2430 EDMONTON RD, COLUMBIA, KY 42728
 PARCEL ID: 01400-00-035.00
 AREA: 24.86 ACRES (PER TAX ASSESSOR)
 ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS
 REFERENCE: DEED BOOK 312 PAGE 357

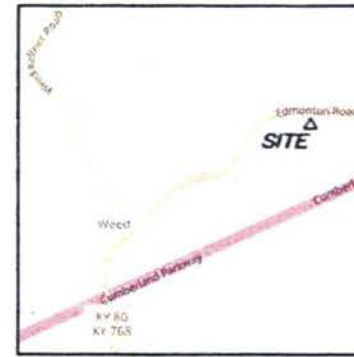
GPS NOTES

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

POSTURAL ACCURACY: 0.01 FEET (HORIZ) 0.13 FEET (VERT)
 TYPE OF EQUIPMENT: SEIBOLD ZENITH-OS PRO BASE AND ROVER, DUAL FREQUENCY
 TYPE OF GPS FIELD PROCEDURE: ON-LINE POSITION USER INTERFACE
 DATE(S) OF SURVEY: 03/17/2020
 DATUM / EPOCH: NAD 83(2011) EPOCH 2010.0000
 PUBLISHED / FIXED CONTROL USE: N/A
 GEOID MODEL: 18
 COMBINED GRID FACTORS: 0.99997149 CENTERED ON THE GPS BASE POINT AS SHOWN HEREIN
 CONVERSION ANGLE: 0° 07' 43.58" N
 REFERENCE USED: DL6173, D7356A, D84061

SITE INFORMATION

LEASE AREA = 8,000 SQUARE FEET (0.1837 ACRES)
 LATITUDE = 37°02'41.72" NWD NAD 83(17) 0443027"
 LONGITUDE = 85°22'27.58" NWD NAD 83(18) 485476797"
 AT CENTER OF LEASE AREA
 ELEVATION AT CENTER OF LEASE AREA = 895.1' A.M.S.L.



VICINITY MAP
NOT TO SCALE

GENERAL NOTES

* THIS SPECIFIC PURPOSE SURVEY IS FOR THE LEASED PREMISES AND ENCLOSURE ONLY. THIS SPECIFIC PURPOSE SURVEY WAS PROVIDED FOR THE EXCLUSIVE USE OF UNIT TOWERS, L.L.C. AND IS EXCLUSIVE FOR THE TRANSFER OF THE LEASED PREMISES AND THE RIGHTS OF ENCLOSURE SHOWN HEREIN AND SHALL NOT BE USED AS AN EVIDENCE OR EVIDENCE IN THE FIELD SIMPLE TRANSFER OF THE PARENT PARCEL, NOR ANY FUTURE PORTIONS THEREOF. BOUNDARY INFORMATION SHOWN HEREIN HAS BEEN COMPILED FROM THE MAPS AND DEED DESCRIPTIONS ON A NE BOUNDARY SURVEY OF THE PARENT PARCEL, AND IS APPROXIMATE.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

THIS SPECIFIC PURPOSE SURVEY WAS PROVIDED IN CONNECTION WITH A TITLE REPORT WHICH MAY REVEAL ADDITIONAL CONSTRAINTS, ENCUMBRANCES, OR RIGHTS OF WAY NOT SHOWN HEREIN.

THE FIELD DATA UPON WHICH THIS SPECIFIC PURPOSE SURVEY IS BASED HAS A CLOSEST APPROXIMATION OF THE POINT IN 10 MILLION FEET AND AN ANGULAR PRECISION OF 0.7 PER ANGLE PART AND WAS NOT ADJUSTED FOR CLOSURE.

EQUIPMENT USED FOR ANGULAR & LINEAR MEASUREMENTS: LEICA TPS 1102 ROBOTIC & GIMBAL STATION, DATE OF LAST FIELD TEST: 03/17/2020

THE 1:1 CONTIGUOUS SPOT ELEVATIONS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE ADJUSTED TO MEAN SEA LEVEL COMPUTED USING GEODESIC AND HAVE A VERTICAL ACCURACY OF A 0.5' CONTIGUOUS OUTSIDE THE IMMEDIATE SITE AREA AND APPROXIMATE.

BOUNDARY INFORMATION THIS SPECIFIC PURPOSE SURVEY ARE BASED ON GROUND MEASUREMENTS BY SIGHT LINE.

FOR THE RECORD, ACCORDING TO THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE 1 AREA OF ANNUAL FLOOD HAZARD CONVEYANCE PANEL NO. 2303000220A DATED 12/11/2015.

NO WETLAND AREA HAS BEEN INVESTIGATED BY THIS SPECIFIC PURPOSE SURVEY.

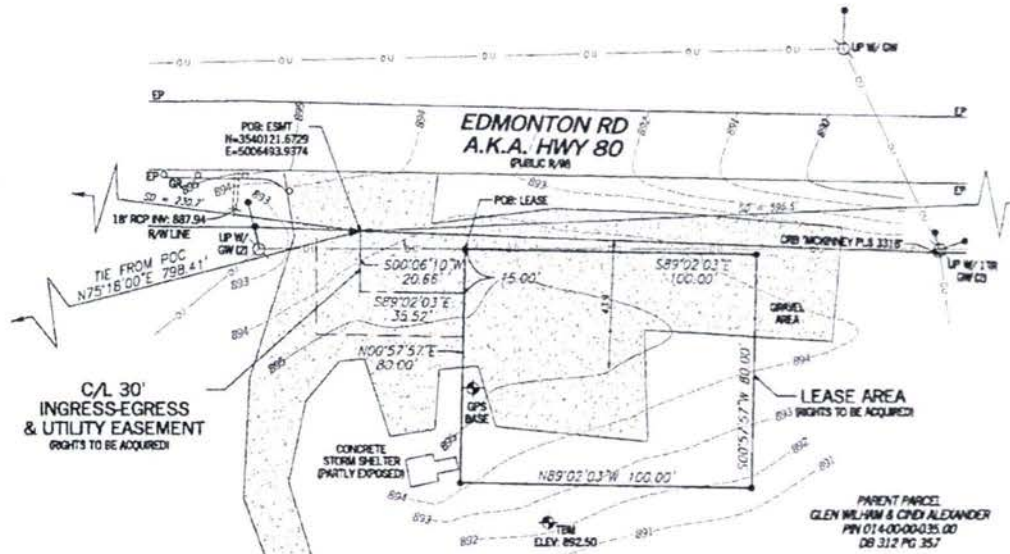
ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS.

ANY UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM ABOVE GROUND FIELD SURVEY INFORMATION. THE SURVEYOR MAKES NO GUARANTEE THAT ANY UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, OTHER INFLUENCE OR UNDISCOVERED. THE SURVEYOR MAKES NO GUARANTEE THAT ANY UNDERGROUND UTILITIES SHOWN ARE IN THE CORRECT 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 1 OF 2



Know what's below.
Call before you dig.



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 TRIANGULATION WITH SIGHT SHOTS. THE UNADJUSTED PRECISION RATIO OF THE TRIANGULATION EXCEEDED 1:10,000 AND WAS NOT ADJUSTED FOR CLOSURE. THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR A LAND SURVEY AS ESTABLISHED BY THE STATE OF KENTUCKY, PER KRS 148.18-190 AND IN EFFECT ON THE DATE OF THIS SURVEY.

G. Darrell Taylor, PLS 4179
03/28/2020
DATE

- LEGEND
- POB POINT OF BEGINNING
 - PCS POINT OF COMMENCEMENT
 - PP POINT OF BEGINNING
 - RP RIGHT OF WAY
 - OP OPENED ROAD
 - UP UPON FORMERLY
 - UT UTILITY POLE
 - N/W NORTH OF WEST
 - R/W RIGHT OF WAY
 - GW GROUND WATER
 - RCP REINFORCED CONCRETE PIPE
 - PP POINT OF BEGINNING
 - EP EDGE OF PAVEMENT
 - TM TEMPORARY BENCH MARK
 - TS TRIP STAKE
 - NTS NOT TO SCALE



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 FOR



EDMONTON RD
SITE NO.
KYBGN2026
MCAB COUNTY, KENTUCKY

DRAWN BY: JAC
CHECKED BY: JAC
APPROVED: G. MILLER
DATE: MARCH 28, 2020
SHEET
1
OF 2

LEGAL DESCRIPTION SHEET



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:



EDMONTON RD
SITE NO.
KYBGN2026
ADAIR COUNTY, KENTUCKY

DRAWN BY: JRL	SHEET
CHECKED BY: JAL	2
APPROVED & SIGNED	
DATE: MARCH 28, 2025	

30' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 30 FOOT WIDE INGRESS-EGRESS AND UTILITY EASEMENT (LYING 15 FEET EACH SIDE OF CENTERLINE) LYING AND BEING IN ADAIR COUNTY, KENTUCKY, AND BEING PART OF THE LANDS OF GLEN WILHAM AND CINDI ALEXANDER, AS RECORDED IN DEED BOOK 312 PAGE 357, ADAIR COUNTY RECORDS, ADAIR COUNTY, KENTUCKY, AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED REBAR FOUND (INSCRIBED: MCKINNEY PLS 3318) ON THE SOUTHERLY RIGHT-OF-WAY LINE OF EDMONTON ROAD, SAID CAPPED REBAR FOUND HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3539919.0703, E: 5005721.6606 AND MARKING THE COMMON CORNER OF THE LANDS OF STACE BENNETT, JO ANN BENNETT, REX BENNETT AND JANICE BENNETT, AS RECORDED IN DEED BOOK 311 PAGE 642 AND SAID LANDS OF GLEN WILHAM AND CINDI ALEXANDER; THENCE RUNNING ALONG A TIE LINE, NORTH 75°18'00" EAST, 798.41 FEET TO A POINT ON SAID SOUTHERLY RIGHT-OF-WAY LINE AND HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3540121.6729, E: 5006493.9374 AND THE TRUE POINT OF BEGINNING; THENCE LEAVING SAID RIGHT-OF-WAY LINE AND RUNNING, SOUTH 00°05'10" WEST, 20.66 FEET TO A POINT; THENCE, SOUTH 89°02'03" EAST, 35.52 FEET TO THE ENDING AT A POINT ON THE LEASE AREA.

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

LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN ADAIR COUNTY, KENTUCKY, AND BEING PART OF THE LANDS OF GLEN WILHAM AND CINDI ALEXANDER, AS RECORDED IN DEED BOOK 312 PAGE 357, ADAIR COUNTY RECORDS, ADAIR COUNTY, KENTUCKY, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A CAPPED REBAR FOUND (INSCRIBED: MCKINNEY PLS 3318) ON THE SOUTHERLY RIGHT-OF-WAY LINE OF EDMONTON ROAD, SAID CAPPED REBAR FOUND HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3539919.0703, E: 5005721.6606 AND MARKING THE COMMON CORNER OF THE LANDS OF STACE BENNETT, JO ANN BENNETT, REX BENNETT AND JANICE BENNETT, AS RECORDED IN DEED BOOK 311 PAGE 642 AND SAID LANDS OF GLEN WILHAM AND CINDI ALEXANDER; THENCE RUNNING ALONG A TIE LINE, NORTH 75°18'00" EAST, 798.41 FEET TO A POINT ON SAID SOUTHERLY RIGHT-OF-WAY LINE AND HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3540121.6729, E: 5006493.9374; THENCE LEAVING SAID RIGHT-OF-WAY LINE AND RUNNING, SOUTH 00°05'10" WEST, 20.66 FEET TO A POINT; THENCE, SOUTH 89°02'03" EAST, 35.52 FEET TO A POINT ON THE LEASE AREA; THENCE RUNNING ALONG SAID LEASE AREA, NORTH 00°57'57" EAST, 15.00 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE, SOUTH 89°02'03" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 00°57'57" WEST, 88.80 FEET TO A POINT; THENCE, NORTH 89°02'03" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 00°57'57" EAST, 80.00 FEET TO A POINT AND THE POINT OF BEGINNING.

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

SAID TRACT CONTAINS 0.1837 ACRES (8,000 SQUARE FEET), MORE OR LESS.

FORM NO. 100-1000-1000 (REV. 11-12)

DATE: MARCH 28, 2025
JOB NO. 2025-0047

EXHIBIT J
NOTIFICATION LISTING

Weed Relo / Edmonton – Notice List

WILHAM GLEN & CINDI ALEXANDER
7435 EDMONTON RD
COLUMBIA, KY 42728

WILHAM GLEN & CINDI ALEXANDER
7435 EDMONTON RD
COLUMBIA, KY 42728

BENNETT STACIE & JOANN &
REX & JANICE BENNETT
1932 WEED KELTNER RD
EDMONTON, KY 42129

FAULKNER CLYDE & ETHELEN
PO BOX 1123
EDMONTON, KY 42129

DZIERAN THOMAS & RACHEL
2557 LUCY LN
WAYNESVILLE, OH 45068

ROBERTSON BRYAN ESTATE
C/O SHELBY HATCHER & SONYA WASHAM
355 BURTON GARMON RD
COLUMBIA, KY 42728

MARTIN JERRY D
105 AUBURN WAY
NICHOLASVILLE, KY 403562202

ANDERSON PATRICIA
C/O LERETA TAX DISB TEAM
1123 PARK VIEW DR
COVINA, CA 91724

HAMLETT FLOSSIE ESTATE
%BARRY & RICKY HAMLETT/WANDA
PO BOX 517
COLUMBIA, KY 42728

EXHIBIT K
COPY OF PROPERTY OWNER NOTIFICATION



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

**Notice of Proposed Construction of
Wireless Communications Facility
Site Name: Weed Relo / Edmonton**

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 7481 Edmonton Road, Columbia, KY 42728 (37° 02' 41.72" North latitude, 85° 27' 27.50" West longitude). The proposed facility will include a 202-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 212-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 2021-00049 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 Adair County Judge Executive's Office, located at 424 Public Square, Suite # 1, Columbia, KY 42728, follow the traffic circle toward Burkesville Street and travel approximately 499 feet.
2. Exit the traffic circle onto KY-80 W / Burkesville Street and travel approximately 2.6 miles.
3. Turn right onto KY-80 W and travel approximately 7.5 miles.
4. The site is located on the left at 7481 Edmonton Road, Columbia, KY 42728.
5. The site coordinates are:
 - a. North 37 deg 02 min 41.72 sec
 - b. West 85 deg 27 min 27.50 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



1 500' RADIUS & ADJOINER'S DRAWING
 SCALE 1"=200'
 0 100 200 300 400



#	OWNER	ADDRESS	PID	REF
1	GLEN WILHAM & CINDI ALEXANDER	7435 EDMONTON RD COLUMBIA, KY 42728	014-00-00-035.00	-
2	GLEN WILHAM & CINDI ALEXANDER	7435 EDMONTON RD COLUMBIA, KY 42728	014-00-00-034.01	-
3	STACIE & JOANN BENNETT REX & JANICE BENNETT	1932 WEED KELTNER RD EDMONTON, KY 42129	014-00-00-035.01	-
4	CLYDE & ETHELEN FAULKNER	P.O. BOX 1123 EDMONTON, KY 42129	014-00-00-033.00	-
5	THOMAS & RACHEL DZIERAN	2557 LUCY LANE WAYNESVILLE, OH 45068	014-00-00-031.00	-
6	THOMAS & RACHEL DZIERAN	2557 LUCY LANE WAYNESVILLE, OH 45068	014-00-00-030.00	-
7	SHIRLEY HATCHER & SONYS WILSHAM ROBERTSON 9414 ESTATE	355 BURTON GARMON RD COLUMBIA, KY 42728	014-00-00-029.00	-
8	MARTIN JERRY D	7365 EDMONTON RD COLUMBIA, KY 42728	014-00-00-036.00	-
9	C/O LERETA TAX DISEM TEAM ANDERSON PATRIKA	1123 PARK VIEW DR COWINA, CA 91724	014-00-00-037.00	-
10	HARRY & JOCKY HAMLET/WANDA HAMLETT FLOSSIE ESTATE	P.O. BOX 517 COLUMBIA, KY 42728	014-00-00-038.00	-

NOTE:

1. PVA INFORMATION WAS OBTAINED ON 7/28/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
2. THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
3. NOT FOR RECORDING OR PROPERTY TRANSFER.



UNITI TOWERS
 EDMONTON ROAD
 PAV # 15115867
 PAV # 15115867/955
 PAV # 10115703
 THE EDMONTON ROAD
 COLUMBIA, KY 42728
 ADAM COUNTY
 PIP # 014-00-00-035.00-038.00

PROJECT NO. 14111-141
 CHECKED BY: MAS

ISSUED FOR

REV	DATE	DRWN	DESCRIPTION
A	08/14/20	DLS	ZONING DRAWINGS
B	09/01/20	DLS	ZONING DRAWINGS
C	09/10/20	DLS	ZONING DRAWINGS

B&T ENGINEERING, INC
 CDA 4011
 Expires 12/31/20



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

500' RADIUS & ADJOINER'S DRAWING

SHEET NUMBER
C-1



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

EXHIBIT L
COPY OF COUNTY JUDGE/EXECUTIVE NOTICE



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

VIA CERTIFIED MAIL

Gale B. Cowan
County Judge Executive
424 Public Square, Suite 1
Columbia, KY 42728

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2021-00049
Site Name: Weed Relo / Edmonton

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 7481 Edmonton Road, Columbia, KY 42728 (37° 02' 41.72" North latitude, 85° 27' 27.50" West longitude). The proposed facility will include a 202-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 212-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 2021-00049 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

1. Beginning at the Adair County Judge Executive's Office, located at 424 Public Square, Suite # 1, Columbia, KY 42728, follow the traffic circle toward Burkesville Street and travel approximately 499 feet.
2. Exit the traffic circle onto KY-80 W / Burkesville Street and travel approximately 2.6 miles.
3. Turn right onto KY-80 W and travel approximately 7.5 miles.
4. The site is located on the left at 7481 Edmonton Road, Columbia, KY 42728.
5. The site coordinates are:
 - a. North 37 deg 02 min 41.72 sec
 - b. West 85 deg 27 min 27.50 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



1 500' RADIUS & ADJOINER'S DRAWING
 SCALE 1" = 200'
 0 100 200 300 400



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4	CLYDE & ETHELEN FAULKNER	P.O. BOX 1123 EDMONTON, KY 42129	014-00-00-033.00	-
5	THOMAS & RACHEL DZIERAN	2557 LUCY LANE WAYNESVILLE, OH 45068	014-00-00-031.00	-
6	THOMAS & RACHEL DZIERAN	2557 LUCY LANE WAYNESVILLE, OH 45068	014-00-00-030.00	-
7	DR SHELBY HATCHER & SONNY WASHAM ROBERTSON BRYAN ESTATE	355 BURTON GARMON RD COLUMBIA, KY 42728	014-00-00-029.00	-
8	MARTIN JERRY D	7365 EDMONTON RD COLUMBIA, KY 42728	014-00-00-036.00	-
9	C/O LERETA TAX DISB TEAM ANDERSON PATRICIA	1123 PARK VIEW DR COWINA, CA 91724	014-00-00-037.00	-
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NOTE:

1. PVA INFORMATION WAS OBTAINED ON 7/28/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
2. THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
3. NOT FOR RECORDING OR PROPERTY TRANSFER.



UNITI TOWERS
 EDMONTON ROAD
 PVA # 45135907
 PACT # MR1NKS047955
 PIP # 10115703
 THE EDMONTON ROAD
 COLUMBIA, KY 42728
 ADAIR COUNTY
 PG 09/10/20 - 500' SELF-SUPPORT TOWER

PROJECT NO: 1001136
 CHECKED BY: MAS

ISSUED FOR			
REV	DATE	DRWN	DESCRIPTION
A	08/14/20	DLS	ZONING DRAWINGS
B	09/01/20	DLS	ZONING DRAWINGS
C	09/10/20	DLS	ZONING DRAWINGS

B&T ENGINEERING, INC.
 COA 4011
 Expires 12/31/20



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.

500' RADIUS & ADJOINER'S DRAWING

SHEET NUMBER
C-1



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

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

SITE NAME: WEED RELO / EDMONTON
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 2021-00049 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 2021-00049 in your correspondence.



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

VIA TELEPHONE: (270) 384-6471
VIA EMAIL: advertising@adairprogress.com

The Adair Progress, Inc.
98 Grant Lane
Columbia, KY 42728

RE: Legal Notice Advertisement
Site Name: Weed Relo / Edmonton

Dear Adair Progress:

Please publish the following legal notice advertisement in the next edition of *The Adair Progress*:

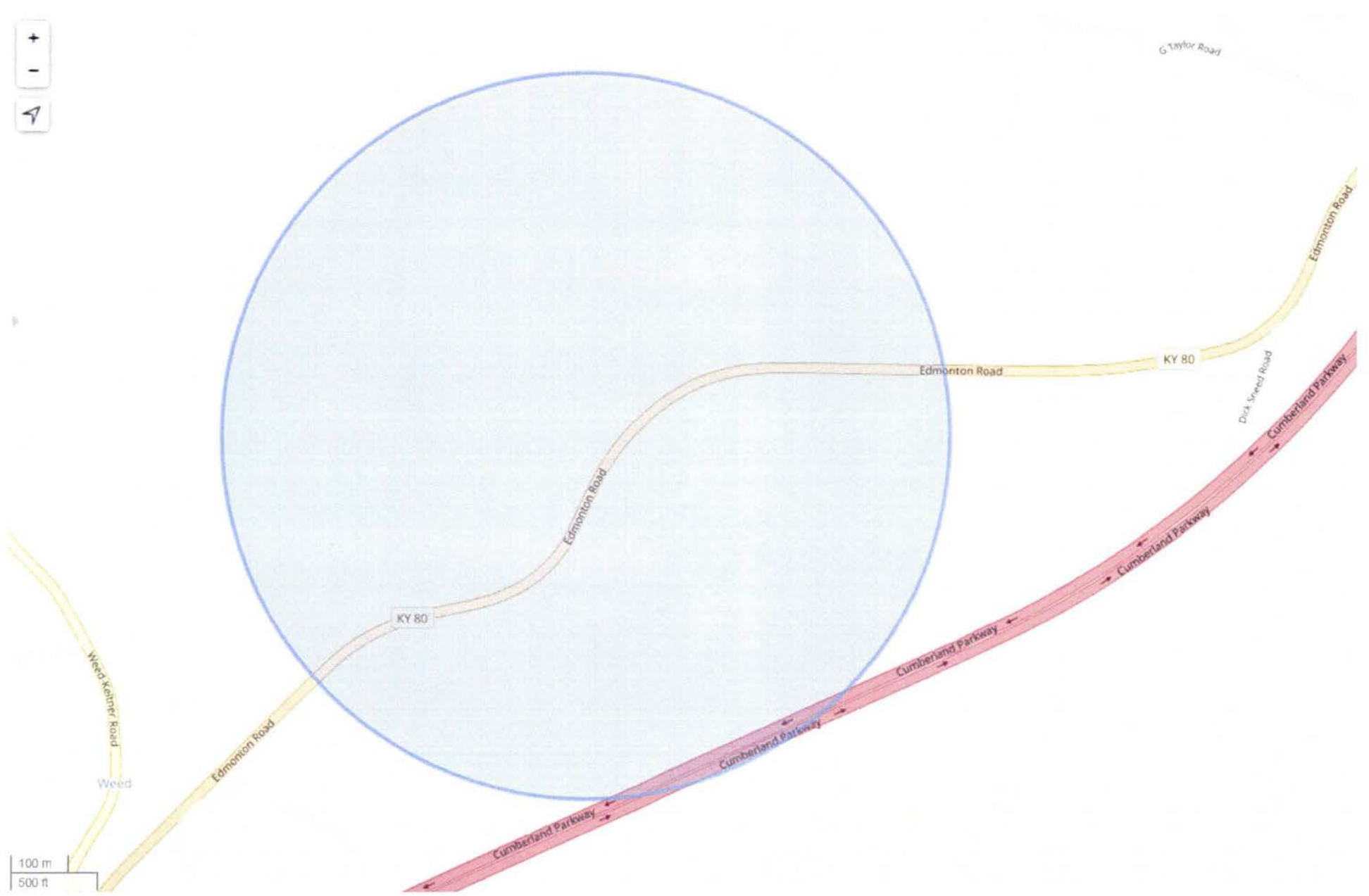
NOTICE

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 7481 Edmonton Road, Columbia, KY 42728 (37° 02' 41.72" North latitude, 85° 27' 27.50" 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 2021-00049 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



100 m
500 ft