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.: 2020-00343
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF BATH)

SITE NAME: BETHEL / CHANDLER ROAD

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

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility 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 312 Chandler Road, Sharpsburg, KY 40374 (38° 16' 01.03" North latitude, 83° 50' 48.69" 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 Amos L. Stoltzfus and Ruth Z. Stoltzfus pursuant to a deed recorded at Deed Book 236, Page 87 in the office of the County Clerk. The proposed WCF will consist of a 305-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 317-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

dpike@pikelegal.com Email:

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

Respectfully submitted,

David A. Pike

Pike Legal Group, PLLC

1578 Highway 44 East, Suite 6

1 a Pelse

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

Copy of Real Estate Agreement

J - Notification Listing

K - Copy of Property Owner Notification

L - Copy of County Judge/Executive Notice

M - Copy of Posted Notices and Newspaper Notice Advertisement

N - Copy of Radio Frequency Design Search Area

EXHIBIT A CERTIFICATE OF AUTHORITY & FCC LICENSE DOCUMENTATION

Commonwealth of Kentucky Alison Lundergan Grimes, Secretary of State

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

Certificate of Authorization

Authentication number: 216299

Visit https://app.sos.ky.gov/ftshow/certvalidate.aspx to authenticate this certificate.

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

NEW CINGULAR WIRELESS PCS. LLC

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

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

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



Alison Lundergan Grimes

Secretary of State

Commonwealth of Kentucky

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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

PO Box 718 Frankfort, KY 40602 (502) 564-3490 www.sos.ky.gov	Certificate of Authority (Foreign Business Enti	ertificate of Authority FBE oreign Business Entity)					
Pursuant to the provisions of KRS 1 on behalf of the entity named below	4A and KRS 271B, 273, 274,275, 362 and 3 and, for that purpose, submits the following	86 the undersigned ho	ereby applies for a	uthority to transact t	business in Kentuck		
1 The entity is a : profit business	corporation (KRS 271B) nonprofit or	orporation (KRS 273). lity company (KRS 275		onal service corpora onal limited liability (ation (KRS 274) company (KRS 275)		
c THE HAME OF THE CHILLY IS	Towers LLC						
	e must be identical to the name on record with	the Secretary of State.)					
3. The name of the entity to be used	(Only provide	If "real name" is unavail	able for use; otherw	rise, leave blank.)			
4. The state or country under whose	e law the entity is organized is Delaware						
7.7	HALL DOWN THE						
5. The date of organization is 12/2	12015	nd the period of durati		left blank, the period	t of duration		
6. The mailing address of the entity	'e principal office is			is considered per			
	rive, Benton Building, Suite 300	Little Rock	AR	7221	1		
Street Address	The state of the s	City	State	Zip Cod			
7. The street address of the entity's	registered office in Kentucky is						
306 West Main Street - S	(C. 1980) (A. Waller, M. Salata, A. Waller, M. Waller, M. Salata,	Frankfort	KY	4060	1		
Street Address (No P.O. Box Numbers		City	State	Zlp Cod			
and the name of the registered agen	n at that office is	National Control					
	of at that office is CT Corporation S ses of the entity's representatives (secretary 10802 Executive Center Drive, Benton Building, Suife 300	, officers and directors	, managers, truste	es or general partn			
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I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF

DELAWARE, DO HEREBY CERTIFY "UNITI TOWERS LLC" IS DULY FORMED UNDER

THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A

LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF

THE THIRTIETH DAY OF DECEMBER, A.D. 2016.

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

5896640 8300
SR# 20167345793
You may verify this certificate online at corp.delaware.gov/authver.shtml

Authentication: 203613650

Date: 12-30-16

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 KNKN956	File Number
	Service Cellular
Market Numer	Channel Block
CMA450	В
Sub-Market	t Designator

FCC Registration Number (FRN): 0003291192

Mar	ket ľ	Var	ne	
Kent	uckv	8 -	Mase	01

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	Structure Hgt to Tip	Antenna Structure
			(met ers)	(meters)	Registration No.
1	38-06-01.6 N	083-56-44.2 W	307.8	126.5	1059771
A ddwose.	2002 Mayovilla Page	4 (76200)			

Address: 3003 Maysville Road (76290)

City: MT. STERLING County: MONTGOMERY State: KY Construction Deadline:

Antenna: 1					. 246			
Maximum Transmitting ERP in Watts:	140.820					(). Asia.		
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	135.500	127.300	143.700	142.100	122.700	113.300	130.600	136,100
Transmitting ERP (watts) Antenna: 2	154.900	65.100	5.300	0.700	0.309	0.400	10.100	78.000
Maximum Transmitting ERP in Watts:	140.820			3				
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	135.500	127.300	143,700	142.100	122.700	113.300	130.600	136.100
Transmitting ERP (watts)	0.500	7.000	36.900	44.000	12.100	0.900	0.100	0.100
Antenna: 3					61			
Maximum Transmitting ERP in Watts:	140.820					×377		
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	135.500	127.300	143.700	142.100	122.700	113.300	130.600	136.100
Transmitting ERP (watts)	24.700	18.300	22.700	33.500	103.700	99.000	126 .600	69.600

Conditions:

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

Call Sign: KNKN956 File Number:

Location Latitude	Longitude		round Elev neters)		tructure Hgt neters)	to Tip	Antenna St Registratio	
2 38-11-09.0 N	083-25-12.0 W	31	77.0	5'	7.9			
Address: 1470 SOUTH TOLL	IVER ROAD (7629	92)						
City: MOREHEAD County	:ROWAN State	:KY (Constructio	n Deadli	ne:			
Antenna: 1 Maximum Transmitting ERP in	Watts: 140.820							
Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2	0 116.000	45 104.400 94.700	90 127.300 7.700	135 125.300 1.000	180 124.700 0.500	225 174.000 0.500	270 174.600 14.700	315 156.000 113.600
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 3	0 1 16 .000	45 104.400 46.700	90 127.300 306.900	135 125.300 397.600	180 124.700 115.300	225 174.000 6.500	270 174.600 0.800	315 156.000 0.900
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 116.000	45 104.400 0.421	90 127.300 0.421	135 125.300 7.600	180 124.700 62.700	225 174.000 210.700	270 174.600 160.100	315 156.000 17.300
Location Latitude 4 38-19-06 7 N	Longitude	(n	round Elev neters)	(r	tructure Hgt neters)	to Tip	Antenna St Registratio	
30-17-00.7 1	084-07-20.5 W	2.	71.3	12	26.2		1043355	
Address: 1062 MAYSVILLE City: MILLERSBURG Cou	nty: NICHOLAS	State: 1	VV Cons	tunatian l	Deadline:			
City: MILLERSBURG Cou	mty: NICHOLAS	State: 1	A Cons	ruction	Destaine:			
Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north)		45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2	158.500	140.400 176.800	124.300 51.900	128.600 29.000	122.500 0.400	127.600 10.800	146.600 59.600	134.900 176.800
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters)	0	45 140.400	90 124.300	135 128.600	180 122.500	225 127.600	270 146.600	315 134.900
Transmitting ERP (watts) Antenna: 3	2.000	20.200	108.000	135.400	28.500	2.600	0.400	0.500



Print Date:

Call Sign: KNKN956	File Number:	Print Date:
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Location Latitude	Longitude	(n	round Elev neters)		Structure Hg meters)	t to Tip	Antenna St Registratio	
5 38-41-0 3.8 N	084-03-26.6 W		31.0	1	27.1		1043359	
Address: 275 SOUTH BLUE	997							
City: Brooksville County: 1	BRACKEN Stat	e: KY	Construction	n Deadl	ine: 12-30-20	14		
					_			
Antenna: 1								
Maximum Transmitting ERP in Azimuth(from true north)	1 Watts: 140.820 0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	169.000	167.500	126.700	147.100	-	152.500	139.700	174.500
Fransmitting ERP (watts)	133.400	148.800	43.700	24.400	0.300	9.100	50.100	148.800
Maximum Transmitting ERP in	Watts: 140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Fransmitting ERP (watts)	1 69 .000	167.500	126.700	147.100		152.500	139.700	174.500
Antenna: 3	12.200	80.800	162.200	168.800	105.900	30.400	22.400	8.400
Maximum Transmitting ERP in	25000	45	00	125	100	225	270	215
Azimuth(from true north) Antenna Height AAT (meters)	'0 169.000 ∂	45 167.500	90 126.700	135 147.100	180 165,400	225 152.500	270 139,700	315 174.500
Transmitting ERP (watts)	23.200	9.000	120.700	26.500	118.900	157.600	177.800	68.800
Location Latitude	Longitude	(m	round Elev ieters)	(Structure Hg meters)	t to Tip	Antenna St Registratio	
6 38-35-58.3 N	083-10-00.7 W	4396	9.7	6	51.0			
Address: 803 HIGHWAY 546		•						
City: GARRISON County:	LEWIS State: 1	KY Con	struction]	Deadline	: 12-30-2014			
		\$*	6.00.000	Marie.				
A m 4 a m m m m m . 1				753				
	NN 44 140.000							
Maximum Transmitting ERP in		45	90	135	180	225	270	315
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters)	Watts: 140.820 0 94.800	45 131.000	90 101,600	135 71.200	180 75.500	225 126.000	270 153.200	315 87.400
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Fransmitting ERP (watts)	0		90 101.600 117.300	135 71.200 36.300				
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2	0 94.800 129.000	131.000	101.600	71.200	75.500	126.000	153.200	87.400
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Fransmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north)	0 94.800 129.000 1 Watts: 140.820 0	131.000 114.600	101.600	71.200	75.500 42.600	126.000	153.200	87.400 87.200
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Fransmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters)	0 94.800 129.000 1 Watts: 140.820 0 94.800	131.000 114.600 45 131.000	101.600 117.300 90 101.600	71.200 36.300 135 71.200	75.500 42.600 180 75.500	126.000 15.500 225 126.000	153.200 17.400 270 153.200	87.400 87.200 315 87.400
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters)	0 94.800 129.000 1 Watts: 140.820 0	131.000 114.600	101.600 117.300	71.200 36.300	75.500 42.600 180 75.500	126.000 15.500 225	153.200 17.400 270	87.400 87.200
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Iransmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Iransmitting ERP (watts)	0 94.800 129.000 1 Watts: 140.820 0 94.800	131.000 114.600 45 131.000 21.400	101.600 117.300 90 101.600	71.200 36.300 135 71.200 144.400	75.500 42.600 180 75.500	126.000 15.500 225 126.000 182.100	153.200 17.400 270 153.200 175.900	87.400 87.200 315 87.400 67.700
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Iransmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Iransmitting ERP (watts) Location Latitude	0 94.800 129.000 1 Watts: 140.820 0 94.800 73.300	131.000 114.600 45 131.000 21.400	90 101.600 29.200 101.600 29.200	71,200 36,300 135 71,200 144,400	75.500 42.600 180 75.500 211.200	126.000 15.500 225 126.000 182.100	153.200 17.400 270 153.200 175.900	87.400 87.200 315 87.400 67.700
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Fransmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Fransmitting ERP (watts) Location Latitude 10 38-01-26.0 N	0 94.800 129.000 1 Watts: 140.820 0 94.800 73.300 Longitude 083-57-08.0 W	131.000 114.600 45 131.000 21.400	101.600 117.300 90 101.600 29.200 round Elevaters) 7.9	71.200 36.300 135 71.200 144.400	75.500 42.600 180 75.500 211.200 Structure Hg meters) 58.6	126.000 15.500 225 126.000 182.100	153.200 17.400 270 153.200 175.900 Antenna St Registratio 1042213	87.400 87.200 315 87.400 67.700
Maximum Transmitting ERP in Azimuth (from true north) Antenna Height AAT (meters) Fransmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth (from true north) Antenna Height AAT (meters) Fransmitting ERP (watts) Location Latitude 10 38-01-26.0 N Address: 2122 Levee Road (7	0 94.800 129.000 1 Watts: 140.820 0 94.800 73.300 Longitude 083-57-08.0 W	131.000 114.600 45 131.000 21.400 GI (m	101.600 117.300 90 101.600 29.200 round Elevaters) 7.9	71.200 36.300 135 71.200 144.400	75.500 42.600 180 75.500 211.200 Structure Hg meters) 58.6	126.000 15.500 225 126.000 182.100	153.200 17.400 270 153.200 175.900 Antenna St Registratio 1042213	87.400 87.200 315 87.400 67.700
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Location Latitude 10 38-01-26.0 N Address: 2122 Levee Road (7	0 94.800 129.000 1 Watts: 140.820 0 94.800 73.300 Longitude 083-57-08.0 W	131.000 114.600 45 131.000 21.400 GI (m	101.600 117.300 90 101.600 29.200 round Elevaters) 7.9	71.200 36.300 135 71.200 144.400	75.500 42.600 180 75.500 211.200 Structure Hg meters)	126.000 15.500 225 126.000 182.100	153.200 17.400 270 153.200 175.900 Antenna St Registratio 1042213	87.400 87.200 315 87.400 67.700
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Iransmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Iransmitting ERP (watts) Location Latitude 10 38-01-26.0 N Address: 2122 Levee Road (7 City: MT. STERLING Cou	0 94.800 129.000 1 Watts: 140.820 0 94.800 73.300 Longitude 083-57-08.0 W 6302) nty: MONTGOMI	131.000 114.600 45 131.000 21.400 GI (m	101.600 117.300 90 101.600 29.200 round Elevaters) 7.9	71.200 36.300 135 71.200 144.400	75.500 42.600 180 75.500 211.200 Structure Hg meters) 58.6	126.000 15.500 225 126.000 182.100	153.200 17.400 270 153.200 175.900 Antenna St Registratio 1042213	87.400 87.200 315 87.400 67.700
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Location Latitude 10 38-01-26.0 N Address: 2122 Levee Road (7 City: MT. STERLING Cou Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north)	0 94.800 129.000 1 Watts: 140.820 0 94.800 73.300 Longitude 083-57-08.0 W 6302) nty: MONTGOMI	131.000 114.600 45 131.000 21.400 GI (m	101.600 117.300 90 101.600 29.200 round Elevaters) 7.9	71.200 36.300 135 71.200 144.400	75.500 42.600 180 75.500 211.200 Structure Hg meters) 58.6	126.000 15.500 225 126.000 182.100	153.200 17.400 270 153.200 175.900 Antenna St Registratio 1042213	87.400 87.200 315 87.400 67.700
Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Location Latitude 10 38-01-26.0 N Address: 2122 Levee Road (7 City: MT. STERLING Cou	0 94.800 129.000 1 Watts: 140.820 0 94.800 73.300 Longitude 083-57-08.0 W 6302) nty: MONTGOMI	131.000 114.600 45 131.000 21.400 Gr (m 31	90 101.600 29.200 round Elevneters) 7.9	71.200 36.300 135 71.200 144.400 (6	75.500 42.600 180 75.500 211.200 Structure Hg meters) 58.6	126.000 15.500 225 126.000 182.100 a to Tip	153.200 17.400 270 153.200 175.900 Antenna St Registratio 1042213	87.400 87.200 315 87.400 67.700 ructure n No.

Call Sign: KNKN956	File Number:	Print Date:

10	Latitude 38-01-26,0 N 2122 Levee Road (7	Longitude 083-57-08.0 W	(n	round Elev neters) 17.9	(Structure Hgt (meters) 68.6	to Tip	Antenna St Registratio 1042213	
	430518	nty: MONTGOME	ERY St	ate: KY	Constru	ction Deadline	e: 12-30-	2014	
Antenna: Maximum Azin Antenna F Transmitt Antenna:	2 Transmitting ERP in muth(from true north) leight AAT (meters) ing ERP (watts)	Watts: 140.820 0 92.500 0.100	45 100.200 0.200	90 119.400 1.800	135 105.700 14.400	180) 123.200 23.200	225 97.900 14.400	270 77.600 1.500	315 85.000 0.100
Aziı Antenna H	muth(from true north) Height AAT (meters) ing ERP (watts)	92,500 175,400	45 100.200 50.300	90 119.400 37.100	135 105.700 13.900	180 123.200 20.100	225 97.900 133.800	270 77.600 268.500	315 85.000 279.600
	Latitude	Longitude	(n	round Elenneters)		Structure Hgt (meters)	to Tip	Antenna St Registratio	
11	38-14-43.5 N	083-25-18.5 W	4	05.1		113.1		1042211	
	4950 HIGHWAY 79	, ASC 10-		- 1860 -					
City: MO	REHEAD County	: ROWAN Stat	e: KY	Constructi	on Deadl	ine: 12-30-20	14		
Azir Antenna F Transmitt Antenna:	Transmitting ERP in muth(from true north) leight AAT (meters) ing ERP (watts)	0 178.500 240.300	45 177.300 293.300	90 197,500 153,900	135 172.200 30.000	180 197.100 15.800	225 268.500 3.100	270 231.500 6.500	315 202.400 74.200
Azii Antenna H Transmitt Antenna:	muth(from true north) leight AAT (meters) ing ERP (watts)	0 178.500 0.200	45 177.300 1.100	90 197.500 2.600	135 172.200 2.200	180 197.100 1.700	225 268.500 0.300	270 231.500 0.100	315 202.400 0.200
Azii Antenna H	muth(from true north) Height AAT (meters) ing ERP (watts)	0 178.500 0.400	45 177.300 0.104	90 197.500 0.104	135 172.200 1.600		225 268.500 52.300	270 231.500 41.900	315 202.400 6.500
Location	Latitude	Longitude	(n	round Ele neters)	(St ruct ure Hgt (m et ers)	to Tip	Antenna St Registratio	
_	38-32-02.2 N ROUTE 2 BOX 357	084-01-42.7 W	2	87.7	•	93.0		1248707	
		ROBERTSON	State: K	Y Const	ruction I	Deadline: 12-3	0-2014		
Antenna: Maximum Azii Antenna I			45 137.900 92.200	90 100.500 9.400	135 124.900 2.400	180	225 140.100 0.700	270 1 49.5 00 12 .90 0	315 140.700 103.400

	1: KNKN956	File	Number:			1	rint Date	:	
	Latitude	Longitude		round Ele		Structure Hg meters)	gt to Tip	Antenna S Registratio	
13	38-32-02.2 N	084-01-42.7 W	28	37.7	9	3.0		1248707	
Address:	ROUTE 2 BOX 35	7A (76309)				2.0		1210107	
City: MT	OLIVET Count	y: ROBERTSON	State: K	Y Const	ruction D	eadline: 12-	30-2014		
Antenna:	2								
	Transmitting ERP i	n Watts: 140.820							
Azı	muth(from true north)	0	45	90	135	180	225	270	315
Antenna I	Height AAT (meters)	133.400	137.900	100.500	124.900	2221	140.100		140.700
Antenna:	ting ERP (watts)	1.400	30.900	155.600	213.600	45.400	4.800	1.700	0.600
Maximun	Transmitting ERP i	n Watts: 140.820							
Azi	muth(from true north)	0	45	90	135	180	225	270	315
	Height AAT (meters) ting ERP (watts)	133.400	137.900	100.500	124.900	146.500	140.100	149.500	140.700
Transmitt	ting ERF (watts)	2.700	0.427	1.000	4.500	61.200	213.600	155.600	21.400
Location	Latitude	Longitude		round Elev		tructure Hg	t to Tip	Antenna S	
14	20 41 05 EN	002 50 24 2 97		eters)		meters)		Registratio	n No.
	38-41-05.5 N	083-50-24.3 W	28	1.3	1	42.0		1234091	
	3530 TUCKAHOE	The section of the se							
City: May	ysville County: N	IASON State: K	Y Cons	truction D	eadline: 1	2-30-2014			
						and the second con-			
Maximum Azii Antenna I Transmitt	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts)	n Watts: 140.820 0 176.600 178.600	45 204.400 199.300	90 178.600 58.500	135 144.800 32.700	180 138.700 0.400	225 142.800 12.100	270 135.200 67.100	315 167.500 199.300
Azi Antenna I Transmitt Antenna:	n Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) 2	0 176.600 178.600	204.400	178.600	144.800	138.700	142.800	135.200	
Maximum Azi Antenna I Transmitt Antenna: Maximum Azi	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) 2 Transmitting ERP is muth(from true north)	0 176.600 178.600 n Watts: 140.820 0	204.400	178.600	144.800	138.700	142.800	135.200	167.500 199.300
Maximum Azi Antenna I Transmitt Antenna: Maximum Azi Antenna I	Transmitting ERP is muth(from true north) Height AAT (meters) sing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters)	0 176.600 178.600 n Watts: 140.820 0 176.600	204.400 199.300 45 204.400	178.600 58.500 90 178.600	144.800 32.700 135 144.800	138.700 0.400	142.800 12.100	135.200 67.100	167.500
Maximum Azii Antenna I Transmitt Antenna: Maximum Azii Antenna I Transmitt Antenna:	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) 2 Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts)	0 176.600 178.600 n Watts: 140.820 0 176.600 1.600	204.400 199.300 45	178.600 58.500	144.800 32.700	138.700 0.400 180	142.800 12.100 225	135.200 67.100 270	167.500 199.300 315
Maximum Azi Antenna I Transmitt Antenna: Maximum Azi Antenna I Transmitt Antenna: Maximum	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is a Transmitting ERP is a Transmitting ERP is a Transmitting ERP is muth(from true north)	0 176.600 178.600 n Watts: 140.820 0 176.600 1.600	204.400 199.300 45 204.400	178.600 58.500 90 178.600	144.800 32.700 135 144.800	138.700 0.400 180 138.700	142.800 12.100 225 142.800	135.200 67.100 270 135.200	167.500 199.300 315 167.500
Maximum Azi Antenna I Transmitt Antenna: Maximum Azi Antenna I Transmitt Antenna: Antenna: Antenna: Antenna: Azi Maximum Azi	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Transmitting ERP is muth(from true north)	0 176.600 178.600 n Watts: 140.820 0 176.600 1.600 n Watts: 140.820 0	204.400 199.300 45 204.400 35.900	178.600 58.500 90 178.600 180.700	144.800 32.700 135 144.800	138.700 0.400 180 138.700 52.700	142.800 12.100 225 142.800 5.600	135.200 67.100 270 135.200	167.500 199.300 315 167.500
Maximum Azir Antenna I Transmitt Antenna: Maximum Azir Antenna I Transmitt Antenna: Maximum Azir Antenna: Antenna:	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is a Transmitting ERP is a Transmitting ERP is a Transmitting ERP is muth(from true north)	0 176.600 178.600 n Watts: 140.820 0 176.600 n Watts: 140.820 0 176.600	204.400 199.300 45 204.400 35.900 45 204.400	178.600 58.500 90 178.600 180.700 90 178.600	144.800 32.700 135 144.800 248.000	138.700 0.400 180 138.700 52.700 180 138.700	142.800 12.100 225 142.800 5.600 225 142.800	135.200 67.100 270 135.200 2.000 270 135.200	315 167.500 0.700 315 167.500
Maximum Azi Antenna I Transmitt Antenna: Maximum Azii Antenna I Transmitt Antenna: Maximum Azii Antenna: Transmitt	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts)	0 176.600 178.600 n Watts: 140.820 0 176.600 1.600 n Watts: 140.820 0 176.600 1.500	204.400 199.300 45 204.400 35.900 45 204.400 0.305	178.600 58.500 90 178.600 180.700 90 178.600 0.305	144.800 32.700 135 144.800 248.000 135 144.800 5.500	138.700 0.400 180 138.700 52.700 180 138.700 45.400	142.800 12.100 225 142.800 5.600 225 142.800 152.700	135.200 67.100 270 135.200 2.000	167.500 199.300 315 167.500 0.700
Maximum Azi Antenna I Transmitt Antenna: Maximum Azii Antenna I Transmitt Antenna: Maximum Azii Antenna: Transmitt	Transmitting ERP is muth(from true north) Height AAT (meters) sing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) sing ERP (watts) Transmitting ERP is muth(from true north) Transmitting ERP is muth(from true north) Height AAT (meters)	0 176.600 178.600 n Watts: 140.820 0 176.600 n Watts: 140.820 0 176.600	204.400 199.300 45 204.400 35.900 45 204.400 0.305	178.600 58.500 90 178.600 180.700 90 178.600 0.305	144.800 32.700 135 144.800 248.000 135 144.800 5.500	138.700 0.400 180 138.700 52.700 180 138.700 45.400	142.800 12.100 225 142.800 5.600 225 142.800 152.700	135.200 67.100 270 135.200 2.000 270 135.200 116.000	167.500 199.300 315 167.500 0.700 315 167.500 12.500 ructure
Maximum Azi Antenna I Transmitt Antenna: Maximum Azii Antenna I Transmitt Antenna I Azii Antenna I Transmitt Antenna I Transmitt Location	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Latitude	0 176.600 178.600 n Watts: 140.820 0 176.600 1.600 n Watts: 140.820 0 176.600 1.500	204.400 199.300 45 204.400 35.900 45 204.400 0.305 Gr (m	178.600 58.500 90 178.600 180.700 90 178.600 0.305 ound Eleveters)	144.800 32.700 135 144.800 248.000 135 144.800 5.500 ation Sc	138.700 0.400 180 138.700 52.700 180 138.700 45.400 tructure Hg	142.800 12.100 225 142.800 5.600 225 142.800 152.700	135.200 67.100 270 135.200 2.000 270 135.200 116.000 Antenna St Registratio	167.500 199.300 315 167.500 0.700 315 167.500 12.500 ructure
Maximum Azi Antenna I Transmitt Antenna: Maximum Azi Antenna I Transmitt Antenna: Maximum Azi Antenna I Transmitt Location	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Latitude 37-56-51.0 N	0 176.600 178.600 n Watts: 140.820 0 176.600 1.600 n Watts: 140.820 0 176.600 1.500 Longitude	204.400 199.300 45 204.400 35.900 45 204.400 0.305 Gr (m 39	178.600 58.500 90 178.600 180.700 90 178.600 0.305	144.800 32.700 135 144.800 248.000 135 144.800 5.500 ation Sc	138.700 0.400 180 138.700 52.700 180 138.700 45.400	142.800 12.100 225 142.800 5.600 225 142.800 152.700	135.200 67.100 270 135.200 2.000 270 135.200 116.000	167.500 199.300 315 167.500 0.700 315 167.500 12.500 ructure
Maximum Azir Antenna I Transmitt Antenna: Maximum Azir Antenna I Transmitt Antenna: Maximum Azir Antenna I Transmitt Location 16 Address:	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Latitude 37-56-51.0 N 1158 COUNTY PA	0 176.600 178.600 n Watts: 140.820 0 176.600 1.600 n Watts: 140.820 0 176.600 1.500 Longitude 083-36-24.0 W	204.400 199.300 45 204.400 35.900 45 204.400 0.305 Gr (m 39	178.600 58.500 90 178.600 180.700 90 178.600 0.305 ound Eleveters) 1.7	144.800 32.700 135 144.800 248.000 135 144.800 5.500 ation St	138.700 0.400 180 138.700 52.700 180 138.700 45.400 tructure Hg meters) 5.6	142.800 12.100 225 142.800 5.600 225 142.800 152.700 t to Tip	135.200 67.100 270 135.200 2.000 270 135.200 116.000 Antenna St Registratio	167.500 199.300 315 167.500 0.700 315 167.500 12.500 ructure
Maximum Azir Antenna I Transmitt Antenna: Maximum Azir Antenna I Transmitt Antenna: Maximum Azir Antenna I Transmitt Location 16 Address:	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Latitude 37-56-51.0 N 1158 COUNTY PA	0 176.600 178.600 n Watts: 140.820 0 176.600 1.600 n Watts: 140.820 0 176.600 1.500 Longitude 083-36-24.0 W	204.400 199.300 45 204.400 35.900 45 204.400 0.305 Gr (m 39	178.600 58.500 90 178.600 180.700 90 178.600 0.305 ound Eleveters) 1.7	144.800 32.700 135 144.800 248.000 135 144.800 5.500 ation St	138.700 0.400 180 138.700 52.700 180 138.700 45.400 tructure Hg	142.800 12.100 225 142.800 5.600 225 142.800 152.700 t to Tip	135.200 67.100 270 135.200 2.000 270 135.200 116.000 Antenna St Registratio	167.500 199.300 315 167.500 0.700 315 167.500 12.500 ructure
Maximum Azi Antenna I Transmitt Antenna: Maximum Azi Antenna I Transmitt Antenna: Maximum Azi Antenna I Transmitt Location 16 Address: City: FRE	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Latitude 37-56-51.0 N 1158 COUNTY PA	0 176.600 178.600 n Watts: 140.820 0 176.600 1.600 n Watts: 140.820 0 176.600 1.500 Longitude 083-36-24.0 W	204.400 199.300 45 204.400 35.900 45 204.400 0.305 Gr (m 39	178.600 58.500 90 178.600 180.700 90 178.600 0.305 ound Eleveters) 1.7	144.800 32.700 135 144.800 248.000 135 144.800 5.500 ation St	138.700 0.400 180 138.700 52.700 180 138.700 45.400 tructure Hg meters) 5.6	142.800 12.100 225 142.800 5.600 225 142.800 152.700 t to Tip	135.200 67.100 270 135.200 2.000 270 135.200 116.000 Antenna St Registratio	167.500 199.300 315 167.500 0.700 315 167.500 12.500 ructure
Maximum Azir Antenna I Transmitt Antenna: Maximum Azir Antenna I Transmitt Antenna: Maximum Azir Azir Antenna I Transmitt Location 16 Address: City: FRE	Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Transmitting ERP is muth(from true north) Height AAT (meters) ing ERP (watts) Latitude 37-56-51.0 N 1158 COUNTY PA	0 176.600 178.600 n Watts: 140.820 0 176.600 1.600 n Watts: 140.820 0 176.600 1.500 Longitude 083-36-24.0 W RK ROAD (84346 nty: MENIFEE	204.400 199.300 45 204.400 35.900 45 204.400 0.305 Gr (m 39	178.600 58.500 90 178.600 180.700 90 178.600 0.305 ound Eleveters) 1.7	144.800 32.700 135 144.800 248.000 135 144.800 5.500 ation St	138.700 0.400 180 138.700 52.700 180 138.700 45.400 tructure Hg meters) 5.6	142.800 12.100 225 142.800 5.600 225 142.800 152.700 t to Tip	135.200 67.100 270 135.200 2.000 270 135.200 116.000 Antenna St Registratio	167.500 199.300 315 167.500 0.700 315 167.500 12.500 ructure

Call Sign	: KNKN956	File	Number:			Pr	int Date	:	
	Latitude	Longitude		ound Elev eters)		Structure Hgt (meters)	to Tip	Antenna St Registratio	
16	37-56-51.0 N	083-36-24.0 W	39	1.7		86.6		1042227	
	1158 COUNTY PAI	4.90							
City: FRI	ENCHBURG Cou	nty: MENIFEE	State: KY	Constru	ection D	eadline: 12-30	-2014		
Azi Antenna I Transmitt Antenna:	n Transmitting ERP in muth(from true north) Height AAT (meters) ting ERP (watts) 3	0 174.000 20. 500	45 196.600 136.000	90 135.600 272.900	135 116.70 284.10		225 143.100 51.100	270 146.500 37.700	315 161.000 14.100
Azi	n Transmitting ERP in muth(from true north)	1 Watts: 140.820	45	90	135	180	225	270	315
	Height AAT (meters) ting ERP (watts)	174.000	196.600	135.600	116.70		143.100	146.500	161.000
——————————————————————————————————————	ung EKG (WAIIS)	39.000	15.100	20.200	44,500	200.000	265.200	299,200	115.700
Location	Latitude	Longitude	. 54685886-	ound Elev eters)		Structure Hgt (meters)	to Tip	Antenna St Registratio	
17	38-43-27.3 N	083-59-05.2 W	2 84	4.7		60.7		Ü	
Address:	1910 Dutch Road Ri	idge (101049)							
City: Aug	gustaCounty: BRA	ACKEN State: 1	KY Cons	struction I	Deadline	: 12-30-2014			
Azi Antenna I	n Transmitting ERP in muth(from true north) Height AAT (meters) ting ERP (watts)	Watts: 140.820 0 96.600 178.200	45 122.500 74.900	90 103,100 6,100	135 51.900 0. 800	180 67.800 0.400	225 65.600 0.400	270 79.900 11.700	315 97.600 89.800
Maximum Azir Antenna I	n Transmitting ERP in muth(from true north) Height AAT (meters) ting ERP (watts)	Watts: 140.820 0 96.600 2.400	45 122.500 24.800	90 103.100 132.900	135 51.900 166.600		225 65.600 3.200	270 79.900 0.400	315 97.600 0.600
Azi Antenna H	n Transmitting ERP in muth(from true north) Height AAT (meters) ting ERP (watts)	96.600 1.700	45 122.500 0.333	90 103.100 0.333	135 51.900 6.000	180 67.800 49.500	225 65.600 166.600	270 79.900 126.600	315 97.600 13.700
Location	Latitude	Longitude	_	ound Elev eters)		St <mark>ruct</mark> ure Hgt (m et ers)	to Tip	Antenna St Registratio	- · · · ·
22	38-34-35.7 N	083-26-23.4 W	32	1.0		119 .5	1984	1206373	
	Off of SR # 10 (7629	•					e E CASA		
City: Cha	arters County: LEV	WIS State: KY	Constru	ction Dead	lline:				
Azii Antenna F	1 n Transmitting ERP in muth(from true north) Height AAT (meters) ting ERP (watts)	Watts: 140.820 0 209.500 152.800	45 182.600 137.700	90 156.500 121.300	135 135.100 47.800		225 142,700 18,200	270 191,300 23,100	315 173.300 109.400

Call Sign: KNKN956	File	Number:			P	rint Date	:	
Location Latitude	Longitude		ound Elev eters)	ation	Structure Hgr (meters)	t to Tip	Antenna St Registratio	
22 38-34-3 5.7 N	083-26-23.4 W	32	1.0		119.5		1206373	
Address: Off of SR # 10 (762	6 x 6 pt.							
City: Charters County: LE	WIS State: KY	Constru	ction Deac	lline:				
Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters)	n Watts: 140.820 0 209.500	45 182.600	90	135	1 80 00 112.200	225 142.700	270 191.300	315 173.300
Transmitting ERP (watts)	0.800	2.700	156.500 44.500	135.10 178.10		24.700	2.800	0.700
Antenna: 3 Maximum Transmitting ERP is	n Watts: 140.820							
Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 209.500 8.500	45 182.600 2.200	90 156.500 0.441	135 135.10 0.700	180 00 112.200 11.700	225 142.700 93.600	270 191.300 220.800	315 173.300 83.500
Location Latitude	Longitude	Santa P. P. Santa	round Elev leters)	ation	Structure Hg (meters)	t to Tip	Antenna St Registratio	
23 38-03-34.6 N	083-30-18.6 W	3 6	7.9		59.1		-	
Address: 148 Dogwood Lane			. 100					
City: Salt Lick County: BA	ATH State: KY	Constru	ction Dead	lline:				_
Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2	n Watts: 140.820 0 164.600 86.100	45 119.200 142.900	90 12 7.400 5 3. 100	135 129.10 37.600		225 91.500 18.800	270 141.700 66.800	315 180.300 133.400
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 3	0 164.600 18.000	45 119.200 119.500	90 127.400 239.900	135 129.10 249.70		225 91.500 44.900	270 141.700 33.100	315 180.300 12.400
Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	n Watts: 140.820 0 164.600 34.300	45 119.200 13.300	90 127.400 17.800	135 129.10 39.100		225 91.500 233.100	270 141.700 263.000	315 180.300 101.700
Location Latitude	Longitude	_	ound Elev	ation	Structure Hg	t to Tip	Antenna St Registratio	
24 37-57-38.2 N	083-46-12.6 W	`	2.2		77. 1		1252133	н 140.
Address: 377 WHISPERING						4045555		
City: MEANS County: MI	ENIFEE State: K	Y Cons	struction D	eadline	:		<u>. </u>	_
Antenna: 1 Maximum Transmitting ERP in Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	n Watts: 140.820 0 193.100 205.100	45 167.300 86.100	90 141.100 7.000	135 121.10 0.900	180 00 166.700 0.410	225 178,600 0.500	270 195,900 13,400	315 185.900 103.300

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

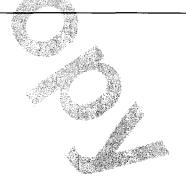
Location Latitude	Longitude		round Eleva ieters)		ucture Hg eters)	t to Tip	Antenna St Registratio	
24 37-57-3 8.2 N	083-46-12.6 W	38	32.2	77.	.1		1252133	
Address: 377 WHISPERING	PINE (85240)							
City: MEANS County: ME	NIFEE State: K	Y Cons	struction De	eadline:				
Antenna: 2 Maximum Transmitting ERP in	10 10 10 10 10 10 10 10 10 10 10 10 10 1							
Azimuth(from true north) Antenna Height AAT (meters)	0 193.100	45 167.300	90	135	180 166,700	225 178.600	270 195,900	315 185.900
Transmitting ERP (watts) Antenna: 3	4.00 0	55.200	141.100 276.600	121.100 325.000	69.600	3.000	0.700	0.700
Maximum Transmitting ERP in	Watts: 140.820							
Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	1 93 .100	167.300	141.100	121.100	166.700	178.600	195.900	185.900
	1.900	0.400	0.400	6.900	57.000	191.800	145.700	15.700
Location Latitude	Longitude	Gı	round Eleva	tion Str	ucture Hg	t to Tip	Antenna St	ructure
	, al	(m	eters)	(m	eters)		Registration	n No
25 37-55-42 0 N	083-32-46 4 W		ieters) 14-7	•	eters) 5-2		Registratio	n No.
=- 3/-33- 4 2.0 1	083-32-46.4 W		eters) 94.7	(m 10:	,		Registratio 1252134	n No.
Address: MORT BOTTS RO	AD (85243)	39	,	10:	5.2		•	n No.
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1	AD (85243) MENIFEE State	39	94.7	10:	5.2		•	n No.
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1 Maximum Transmitting ERP in	AD (85243) MENIFEE State 1 Watts: 140.820	39 he: KY	04.7	10:	5.2 e:		1252134	
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1	AD (85243) MENIFEE State 1 Watts: 140.820	39 e: KY 0	94.7 Construction	10: n Deadline	5.2 e: 180	225	270	315
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	AD (85243) MENIFEE State 1 Watts: 140.820	39 he: KY	04.7	10:	5.2 e:	225 162.500 1.100	1252134	
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2	AD (85243) MENIFEE State 1 Watts: 140.820 0 189.900 310.500	39 ME: KY C 45 177.500	90 189,000	10: n Deadline 135 179.800	5.2 e: 180 166.900	162.500	270 146.700	315 200.500
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north)	AD (85243) MENIFEE State 1 Watts: 140.820 0 189.900 310.500 1 Watts: 140.820 0	45 177.500	90 189,000	10: n Deadline 135 179.800	5.2 e: 180 166.900	162.500	270 146.700	315 200.500
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters)	AD (85243) MENIFEE State 1 Watts: 140.820 0 189.900 310.500 1 Watts: 140.820 0 189.900	45 177.500 126.400 45 177.500	90 189,000 6.600 90	10: n Deadline 135 179.800 1.300	180 166.900 0.621 180 166.900	162.500 1.100 225 162.500	270 146.700 20.100 270 146.700	315 200.500 166.600 315 200.500
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north)	AD (85243) MENIFEE State 1 Watts: 140.820 0 189.900 310.500 1 Watts: 140.820 0	45 177.500 126.400	90 189,000 6.600	10: n Deadline 135 179.800 1.300	5.2 e: 180 166.900 0.621	162.500 1.100	270 146.700 20.100	315 200,500 166,600 315
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 3 Maximum Transmitting ERP in	AD (85243) MENIFEE State 1 Watts: 140.820 189.900 100.000 1 Watts: 140.820 189.900 0.600	45 177.500 126.400 45 177.500	90 189,000 6.600 90	10: n Deadline 135 179.800 1.300	180 166.900 0.621 180 166.900	162.500 1.100 225 162.500	270 146.700 20.100 270 146.700	315 200.500 166.600 315 200.500
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 3 Maximum Transmitting ERP in Azimuth(from true north)	AD (85243) MENIFEE State 1 Watts: 140.820 0 189.900 310.500 1 Watts: 140.820 0 189.900 0.600 1 Watts: 140.820 0	45 177.500 126.400 45 177.500 8.100	90 189,000 6.600 90 189,000 42,500	10: n Deadline 135 179.800 1.300 135 179.800 50.700	180 166,900 0.621 180 166,900 14,000	162.500 1.100 225 162.500 1.100	270 146.700 20.100 270 146.700 0.200 270	315 200.500 166.600 315 200.500 0.101
Address: MORT BOTTS RO. City: DENNISON County: Antenna: 1 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Maximum Transmitting ERP in Azimuth(from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 3 Maximum Transmitting ERP in	AD (85243) MENIFEE State 1 Watts: 140.820 1 89.900 310.500 1 Watts: 140.820 0 189.900 0.600 1 Watts: 140.820	45 177.500 126.400 45 177.500 8.100	90 189,000 6.600 90 189,000 42,500	10: n Deadline 135 179.800 4.300 135 179.800 50.700	180 166,900 0.621 180 166,900 14,000	162.500 1.100 225 162.500 1.100	270 146.700 20.100 270 146.700 0.200	315 200.500 166.600 315 200.500 0.101

Control Points:

Control Pt. No. 1

Address: 2601 Palumbo Drive

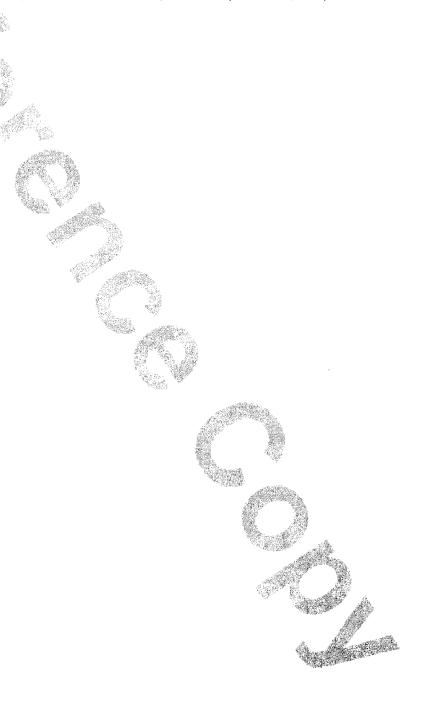
City: Lexington County: State: KY **Telephone Number:** (606)269-1050



Call Sign: KNKN956 File Number: Print Date:

Waivers/Conditions:

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



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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 1016 DALLAS, TX 75202

Call Sign KNLF251	File Number
Radio	Service
CW - PCS	Broadband

FCC Registration Number (FRN): 0003291192

Grant Date 06-02-2015	Effective Date 01-16-2020	Expiration Date 06-23-2025	Print Date
Market Number MTA026	Chan	nel Block A	Sub-Market Designator
	Marke Louisville-Lexi	t Name ngton-Evansvill	
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.

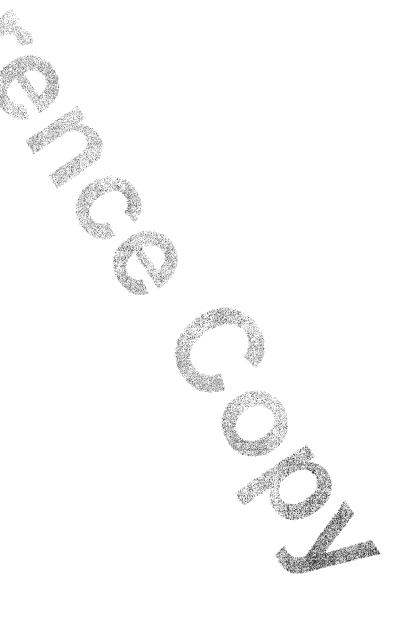
This license may not authorize operation throughout the entire geographic area or spectrum identified on the hardcopy version. To view the specific geographic area and spectrum authorized by this license, refer to the Spectrum and Market Area information under the Market Tab of the license record in 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.

Call Sign: KNLF251 File Number: Print Date:

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

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

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



Call Sign: KNLF251 File Number: Print Date:

700 MHz Relicensed Area Information:

Market Name Buildout Deadline Buildout Notification Status



REFERENCE COPY

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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 KNLH398	File Number
Radio	Service
CW - PCS	Broadband

FCC Registration Number (FRN): 0003291192

Grant Date 04-14-2017	Effective Date 08-31-2018	Expiration Date 04-28-2027	Print Date
Market Number BTA252	Chânne D	l Block	Sub-Market Designator
	Market 1 Lexingto		
st Build-out Date 04-28-2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Dat

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.

Conditions:

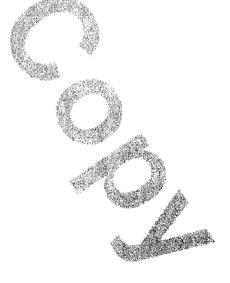
Pursuant to §309(h) of the Communications Act of 1934, as amended, 47 U.S.C. §309(h), this license is subject to the following conditions: This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequencies designated in the license beyond the term 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 harder 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.

Call Sign: KNLH398 File Number: Print Date:

700 MHz Relicensed Area Information:

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	Chan	nel Block A	Sub-Market Designator	
		t Name ngton-Evansvill		
st 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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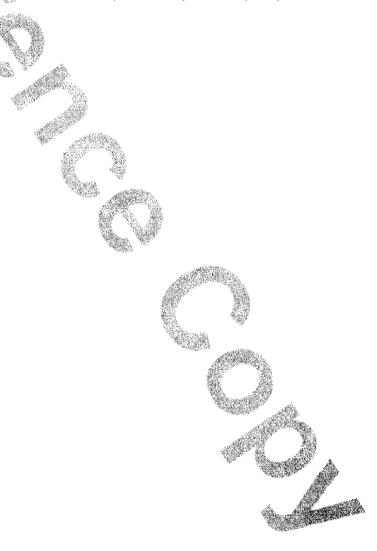
Call Sign: WPOI255 File Number: Print Date:

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).



Call Sign: WPOI255 File Number: Print Date:

700 MHz Relicensed Area Information:

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
	Service
	10-1755 MHz and 55 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	Chan	nel Block C	Sub-Market Designator
	40000	t Name /-TN-VA-WV	
st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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

Conditions:

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

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Call Sign: WQGD755 File Number: Print Date:

700 MHz Relicensed Area Information:

Market Name Buildout Deadline Buildout Notification Status



EXHIBIT B

SITE DEVELOPMENT PLAN:

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

FA NUMBER: 15147579 / SITE ID: KYLEX2051

PACE #: MRTNK047532

PROJECT TRACKING #: 10153678

SITE NAME: CHANDLER RD

312 CHANDLER RD SHARPSBURG, KY 40374 **BATH COUNTY**

PROPOSED 305' SELF-SUPPORT TOWER

ZONING DRAWINGS

LOCATION MAP SITE Grange City East Union KENTUCIE Sharpsburg Reynoldzeille Policylle

DRIVING DIRECTIONS

NO SCALE

DEPART COUNTY JUDGE EXECUTIVE'S OFFICE ON US-60 [KY-36] (EAST) 0.4 MI TURN LEFT (NORTH) ONTO KY-36 [W HIGHWAY 36] 0.5 MI KEEP STRAIGHT ONTO KY-36174 YDS KEEP STRAIGHT ONTO KY-36 [W HIGHWAY 36] 4.2 MI BEAR RIGHT (NORTH-WEST) ONTO KY-1325 [E FORK RD] 7.6 MI BEAR LEFT (WEST) ONTO KY-1325. THEN IMMEDIATELY TURN LEFT (SOUTH) ONTO KY-11 [N HIGHWAY 11] 2.3 MI TURN RIGHT (NORTH) ONTO CHEYENNE RD. THEN IMMEDIATELY TURN LEFT (WEST) ONTO OLD KY-11 0.1 MI TURN RIGHT (NORTH-WEST) ONTO CHANDLER RD 1.0 MI

PROJECT DESCRIPTION

CONSTRUCT (1) NEW 305' SELF-SUPPORT TOWER CONSTRUCT FENCED GRAVEL UTILITY COMPOUND WITH LOCKING ACCESS GATE, 80' x 80' WITHIN 100' x 100' LEASE AREA.

INSTALL GENERATOR

INSTALL (1) H-FRAME W/ UTILITY EQUIPMENT. INSTALL NEW POWER & TELCO UTILITY SERVICES.

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.

Uniti Towers



DRAWING INDEX

T-1		
1-1	TITLE SHEET	
1	SURVEY	
C-1.0	500' RADIUS & ADJOINER'S DRAWING	
C-1.1	OVERALL ADJOINER'S DRAWING	
C-2	OVERALL SITE PLAN	
C-3	ENLARGED COMPOUND LAYOUT	
C-4	TOWER ELEVATION	
0 4	TOTAL CELEVATION	

CHECKED BY:

ISSUED FOR: REV DATE DRWN DESCRIPTION

B&T ENGINEERING, INC.



TITLE SHEET

SHEET NUMBER:

DESIGN INFORMATION

FOR HUMAN HABITATION

A/E DOCUMENT REVIEW STATUS

ACCEPTED: WITH OR NO COMMENTS, CONSTRUCTION MAY PROCEED

PROJECT SUMMARY

FA15147579 (10153678)

17-05-21-00-00-06000

LITTLE ROCK, AR 72211

d/b/a AT&T MOBILITY

LOUISVILLE, KY 40202

MEIDINGER TOWER

N/A

UNMANNED

10802 EXECUTIVE CENTER DRIVE

38*16'01.03" NORTH (38.266953) NAD83

83'50'48.69" WEST (-83.846858) NAD83

NEW CINGULAR WIRELESS, PCS, LLC, A DELAWARE LIMITED LIABILITY COMPANY

462 S/ 4th STREET, SUITE 2400

FACILITY IS UNMANNED AND NOT

312 CHANDLER RD SHARPSBURG, KY 40374

NOT ACCEPTED: RESOLVE COMMENTS AND RESUBMIT

CHANDLER RD

BATH COUNTY HARMONI TOWERS

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

TITLE HARMONI TOWERS PROP

HARMONI TOWERS CONST. MGR.

HARMONI TOWERS SITE DEV. MGR .:

INTERCONNECT:

STATUS CODE:

SITE NAME:

SITE NUMBER

JURISDICTION:

TOWER OWNER:

LATITUDE:

APPLICANT:

CO-APPLICANT:

OCCUPANCY TYPE:

A.D.A. COMPLIANCE:

TAX MAP PROPERTY ID: SITE ADDRESS:

PROPERTY OWNER:

SIGNATURE

A&E FIRM: B+T GROUP 1717 S. BOULDER SUITE 300 TULSA, OK 74119

ELECTRIC EAST KENTUCKY POWER PROVIDER: (606) 876-4419

MIKE SPEEDIE (918) 587-4630

POINT TO POINT LAND SURVEYORS TELCO AT&T
100 GOVERNORS TRACE STE #103 PROVIDER: (XXX) XXX-XXXX
PEACHTREE CITY, GA 30269

PH. (678) 565-4440

CODE COMPLIANCE

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

BUILDING/DWELLING STRUCTURAL ELECTRICAL

CODE IBC 2018 IMC 2018 NEC 2017

THE PROPOSED PROJECT INCLUDES:

INSTALL EQUIPMENT PLATFORM AND CABINET

CONSTRUCT 12' WIDE GRAVEL ACCESS ROAD



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



B+T GRP



CHANDLER RD E# MRTNK047532 PT# 10153678 2 CHANDLER RD RPSBURG, KY 40374 3ATH COUNTY

DIS

A 8/20/20 DLS ZONING DRAWINGS 0 9/29/20 DLS ZONING DRAWINGS 1 10/14/20 MAS ZONING DRAWINGS

Expires 12/31/20

OVERALL VIEW PARENT PARCEL AMOS L. STOLTZFUS & RUTH Z. STOLTZFUS PID 013-00-00-012.00 DB 236 PG 87 SITE NTS

PARENT PARCEL

OWNER: AMOS L. STOLTZFUS & RUTH Z. STOLTZFUS

SITE ADDRESS: 675 CHANDLER RD, SHARPSBURG, KY 40374

PARCEL ID: 013-00-00-012.00

AREA: 361 ACRES (PER TAX ASSESSOR)

ALL ZONING INFORMATION SHOULD BE VERIFIED WITH THE PROPER ZONING OFFICIALS

REFERENCE: DEED BOOK 236 PAGE 87

SITE INFORMATION

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

LATITUDE = 38°16'01.03" (NAD 83) (38.266953°) LONGITUDE = -83°50'48.69" (NAD 83) (-83.846858°) AT CENTER OF LEASE AREA

ELEVATION AT CENTER OF LEASE AREA = 918.8' A.M.S.L.

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



GPS NOTES

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

POSITIONAL ACCURACY: 0.01 FEET (HORZ) 0.13 FEET (VERT) TYPE OF EQUIPMENT: GEOMAX ZENITH35 PRO BASE AND ROVER, DUAL FREQUENCY TYPE OF GPS FIELD PROCEDURE: ONLINE POSITION USER INTERFACE DATES OF SURVEY: 12-19-2019
DATUM / EPOCH: NAD_83(2011)(EPOCH:2010.0000)

PUBLISHED / FIXED CONTROL USE: N/A

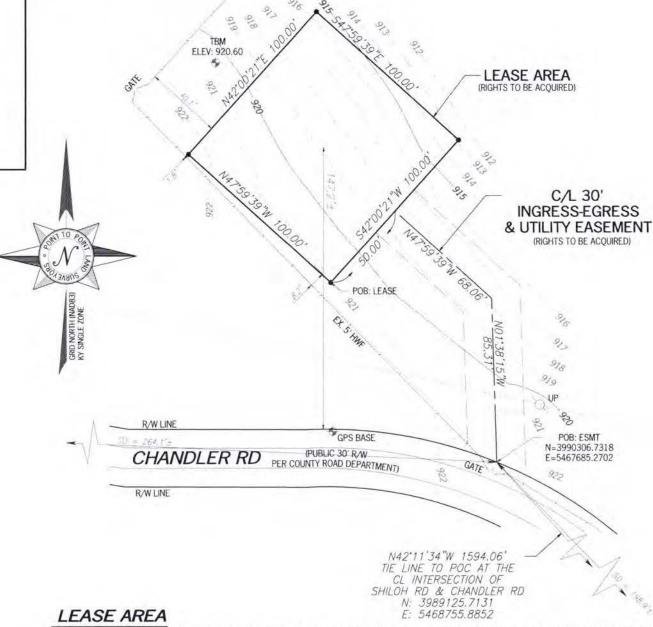
COMBINED GRID FACTOR(S): 0.99988926 CENTERED ON THE GPS BASE POINT AS SHOWN HEREON. CONVERGENCE ANGLE: 01°10'06.45"

30' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 30-FOOT INGRESS-EGRESS AND UTILITY EASEMENT (LYING 15 FEET EACH SIDE OF CENTERLINE) LYING AND BEING IN BATH COUNTY, KENTUCKY, AND BEING PART OF THE LANDS OF AMOS L. STOLTZFUS AND RUTH Z. STOLTZFUS, AS RECORDED IN DEED BOOK 236 PAGE 87, BATH COUNTY RECORDS, BATH COUNTY, KENTUCKY, AND BEING MORE PARTICULARLY DESCRIBED BY THE FOLLOWING CENTERLINE DATA:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A POINT CREATED BY THE CENTERLINE INTERSECTION OF SHILOH ROAD AND CHANDLER ROAD, SAID POINT HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3989125.7131, E: 5468755.8852; THENCE RUNNING ALONG A TIE LINE, NORTH 42°11'34" WEST, 1594.06 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF CHANDLER ROAD HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3990306.7318, E: 5467685.2702 AND THE TRUE POINT OF BEGINNING; THENCE LEAVING SAID RIGHT-OF-WAY LINE, NORTH 01°38'15" WEST, 85.31 FEET TO A POINT; THENCE, NORTH 47°59'39" WEST, 68.06 FEET TO THE ENDING AT A POINT ON THE LEASE AREA.

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

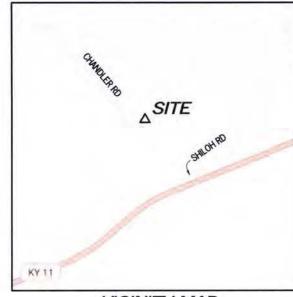


ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN BATH COUNTY, KENTUCKY, AND BEING PART OF THE LANDS OF AMOS L. STOLTZFUS AND RUTH Z. STOLTZFUS, AS RECORDED IN DEED BOOK 236 PAGE 87, BATH COUNTY RECORDS, BATH COUNTY, KENTUCKY, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A POINT CREATED BY THE CENTERLINE INTERSECTION OF SHILOH ROAD AND CHANDLER ROAD, SAID POINT HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3989125.7131, E: 5468755.8852; THENCE RUNNING ALONG A TIE LINE, NORTH 42°11'34" WEST, 1594.06 FEET TO A POINT ON THE EASTERLY RIGHT-OF-WAY LINE OF CHANDLER ROAD HAVING A KENTUCKY GRID NORTH, NAD83, SINGLE ZONE VALUE OF N: 3990306.7318, E: 5467685.2702; THENCE LEAVING SAID RIGHT-OF-WAY LINE, NORTH 01°38'15" WEST 85.31 FEET TO A POINT; THENCE, NORTH 47°59'39' WEST, 68.06 FEET TO A POINT ON THE LEASE AREA; THENCE RUNNING ALONG A LEASE AREA, SOUTH 42°00'21" WEST, 50.00 FEET TO A POINT AND THE TRUE POINT OF BEGINNING; THENCE, NORTH 47°59'39" WEST, 100.00 FEET TO A POINT; THENCE, NORTH 42°00'21" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 47°59'39" EAST, 100.00 FEET TO A POINT; THENCE, SOUTH 42°00'21 WEST, 100.00 FEET TO A POINT AND THE POINT OF BEGINNING.

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

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



VICINITY MAP

NOT TO SCALE

GENERAL NOTES

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

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

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. IDATE OF LAST FIELD VISIT: 12-19-2019

THE 1' CONTOURS AND SPOT ELEVATIONS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE ADJUSTED TO NAVD 88 DATUM (COMPUTED USING GEOID 18) AND HAVE A VERTICAL ACCURACY OF \pm 0.5°, CONTOURS OUTSIDE THE IMMEDIATE SITE AREA ARE

BEARINGS SHOWN ON THIS SPECIFIC PURPOSE SURVEY ARE BASED ON GRID NORTH.

PER THE FEMA FLOODPLAIN MAPS, THE SITE IS LOCATED IN AN AREA DESIGNATED AS ZONE X (AREA OF MINIMAL FLOOD HAZARD). COMMUNITY PANEL NO.: 21011C0050C

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 AN 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.



LEGEND

POB POINT OF BEGINNING
POC POINT OF COMMENCEMENT
IPS IRON PIN SET
IPF IRON PIN SET
IPF IRON PIN FOUND
UP UTLITY POLE
NOW OR FORMERLY
HOTE HOG WIRE FENCE
TEM TEMPORARY BENCH MARK
SD SIGHT DISTANCE



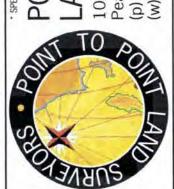
Know what's below. Call before you dig. P2P JOB #: 195268KY

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

DATE REVISION

> 103 565. URVEYORS Trace, Ste. 1 GA 30269 140 (f) 678.5 survey.com POIN

Governors ee Peachtre 678 W 00



SPECIFIC PURPOSE SURVEY PREPARED FOR



CHANDLER RD

SITE NO. KYLEX2051

BATH COUNTY, KENTUCKY

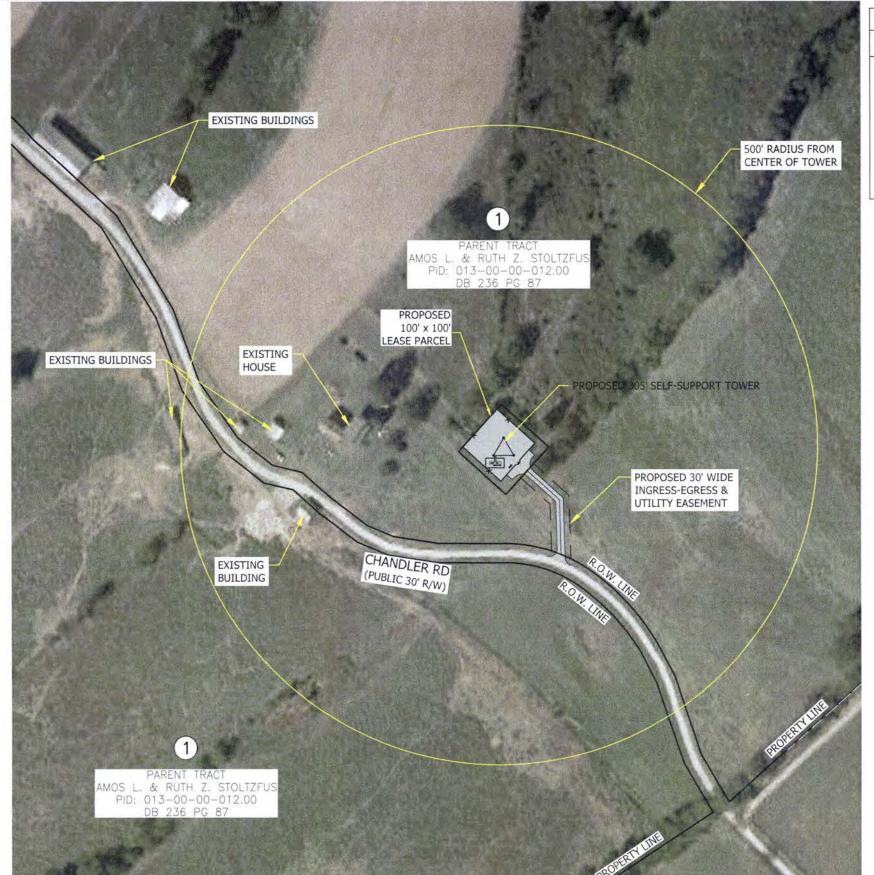
DRAWN BY: AKG

CHECKED BY: JKL APPROVED: D. MILLER

DATE: JANUARY 7, 2020

OF 1

SHEET



#	OWNER	ADDRESS	PID	REF
1	AMOS & RUTH STOLTZFUS	675 CHANDLER RD SHARPSBURG, KY 40374	013-00-00-012.00	DB 236 PG 87

NOTE:

- 1. SEE SHT. C-1.1 FOR INFORMATION ON PROPERTIES #2 #10.
- 2. PVA INFORMATION WAS OBTAINED ON 7/22/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
- 3. THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
- 4. NOT FOR RECORDING OR PROPERTY TRANSFER.







CHANDLER RI

PROJECT NO: CHECKED BY: DLS

ISSUED FOR: REV DATE DRWN DESCRIPTION A 8/20/20 DLS ZONING DRAWINGS 0 9/29/20 DLS ZONING DRAWINGS 1 10/14/20 MAS ZONING DRAWINGS

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



500' RADIUS & ADJOINER'S DRAWING

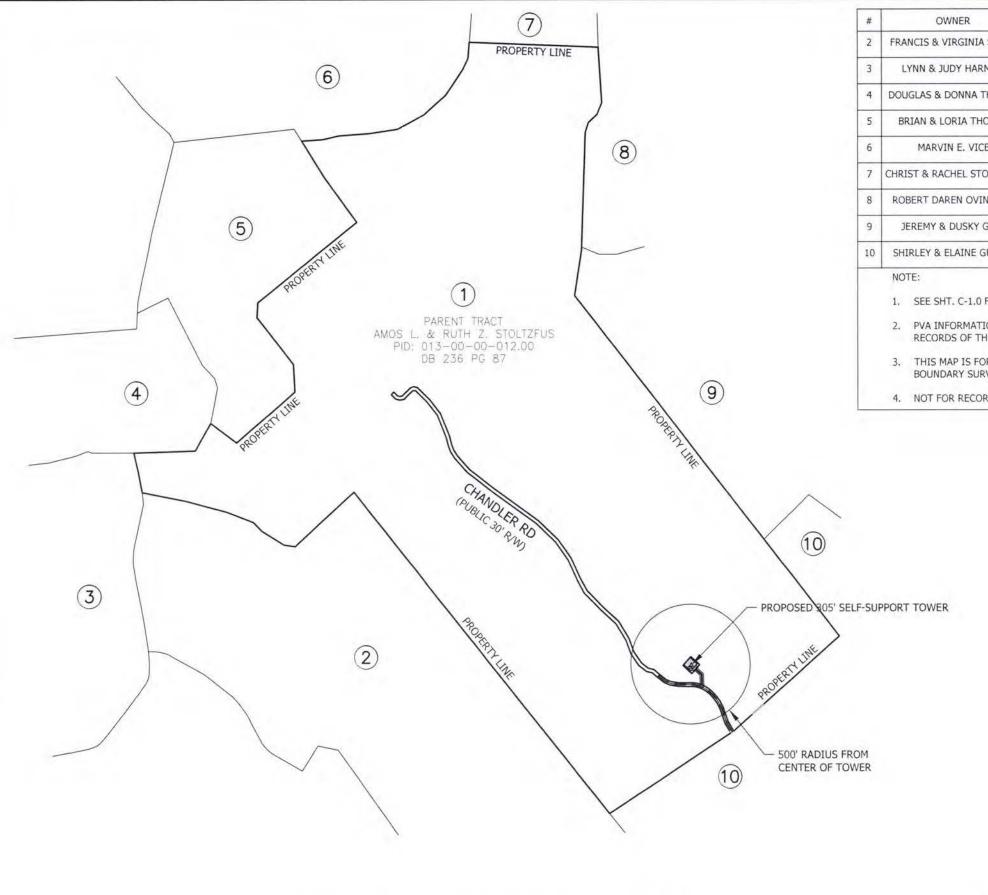
SHEET NUMBER:





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

500' RADIUS & ADJOINER'S DRAWING





- 1. SEE SHT. C-1.0 FOR INFORMATION ON PROPERTIES #1.
- PVA INFORMATION WAS OBTAINED ON 7/22/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
- THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
- 4. NOT FOR RECORDING OR PROPERTY TRANSFER.







CHANDLER RD FA# 15147579

FA# 15147579
PACE# MRTNK047532
PT# 10153678
312 CHANDLER RD
SHARPSBURG, KY 40374
BATH COUNTY

PROJECT NO: 137361
CHECKED BY: DLS

ISSUED FOR:

PROJ. DATE | DRWN | DESCRIPTION

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



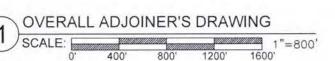
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> OVERALL Adjoiner's Drawing

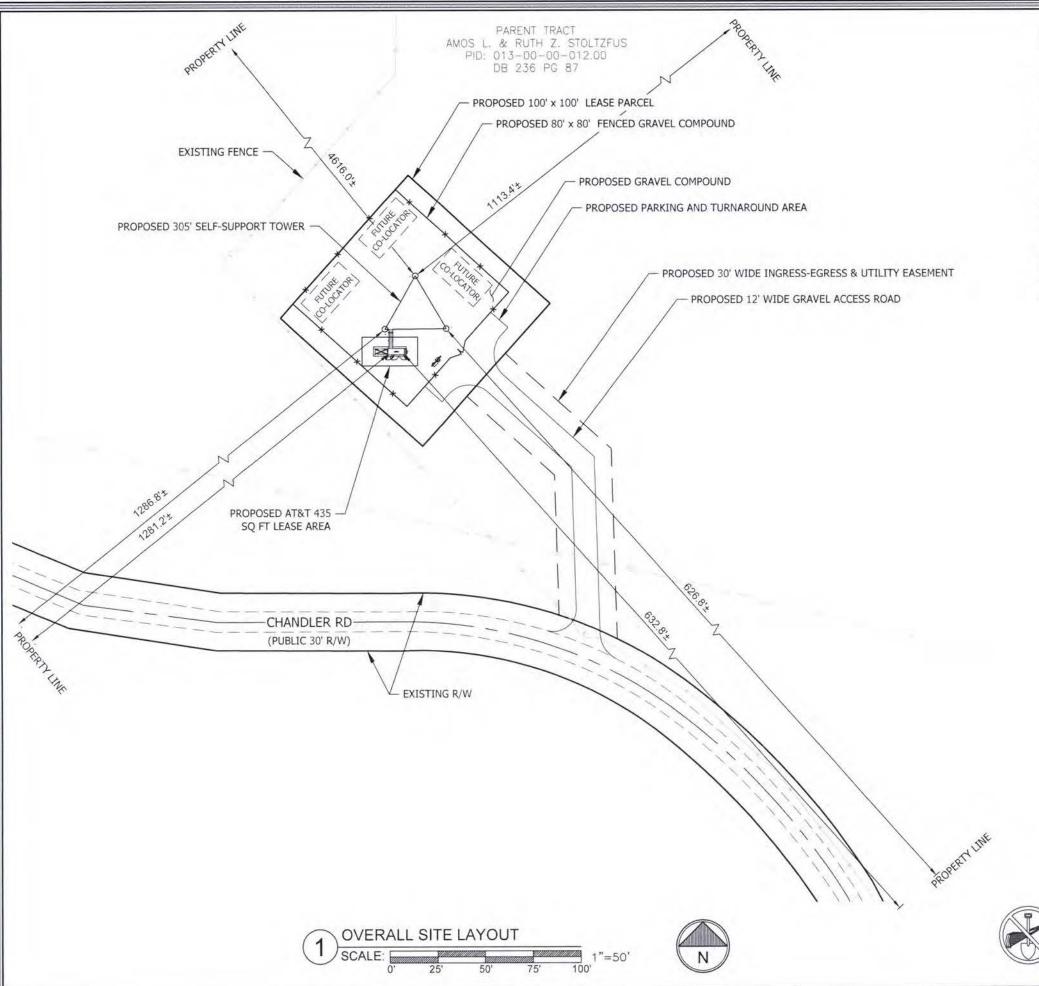
SHEET NUMBER:



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. PROPOSED SELF-SUPPORT TOWER.

CENTER OF TOWER:

LATITUDE: NORTH 38°16'01.03" (38.266953) NAD 83 LONGITUDE: WEST -83°50'48.69" (-83.846858) NAD 83 GROUND ELEVATION @ 918.8' (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:

4616.0'± NORTHWEST: 1113.4'± NORTHEAST: SOUTHEAST: 626.8'± 1286.8'± SOUTHWEST:







CHANDLER RD

PROJECT NO: CHECKED BY: DLS ISSUED FOR: REV DATE DRWN DESCRIPTION
A 8/20/20 DLS ZONING DRAWINGS 0 9/29/20 DLS ZONING DRAWINGS

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

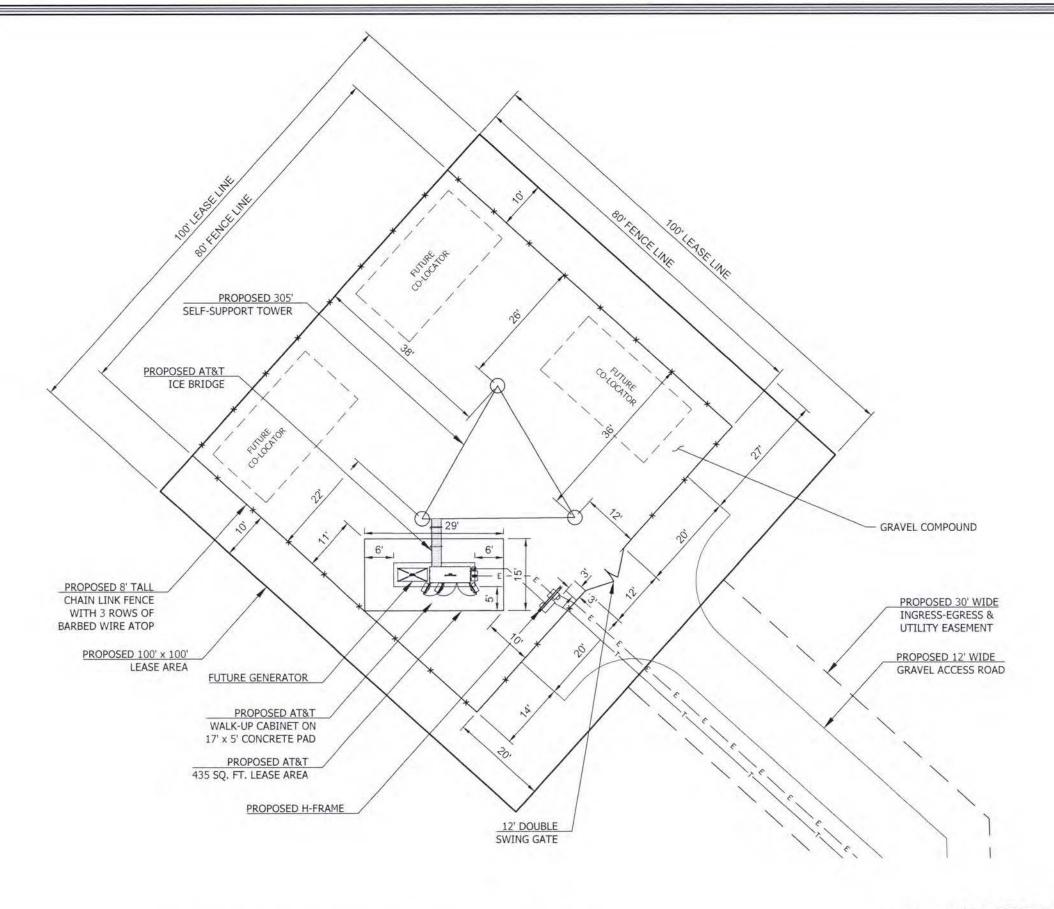
1 10/14/20 MAS ZONING DRAWINGS



OVERALL SITE LAYOUT

SHEET NUMBER:

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



ENLARGED COMPOUND LAYOUT



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









HARMONI TOWERS
CHANDLER RD
FA# 15147579
PACE# NRTNK047532
PT# 10153678
312 CHANDLER RD
SHARPSBURG, NY 40374
BATH COUNTY

PROJECT NO: 137361
CHECKED BY: DLS
ISSUED FOR:

| REV | DATE | DRWN | DESCRIPTION | A | B/20/20 | DLS | ZONING DRAWINGS | 0 | 9/29/20 | DLS | ZONING DRAWINGS | 1 | 10/14/20 | MAS | ZONING DRAWINGS |

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

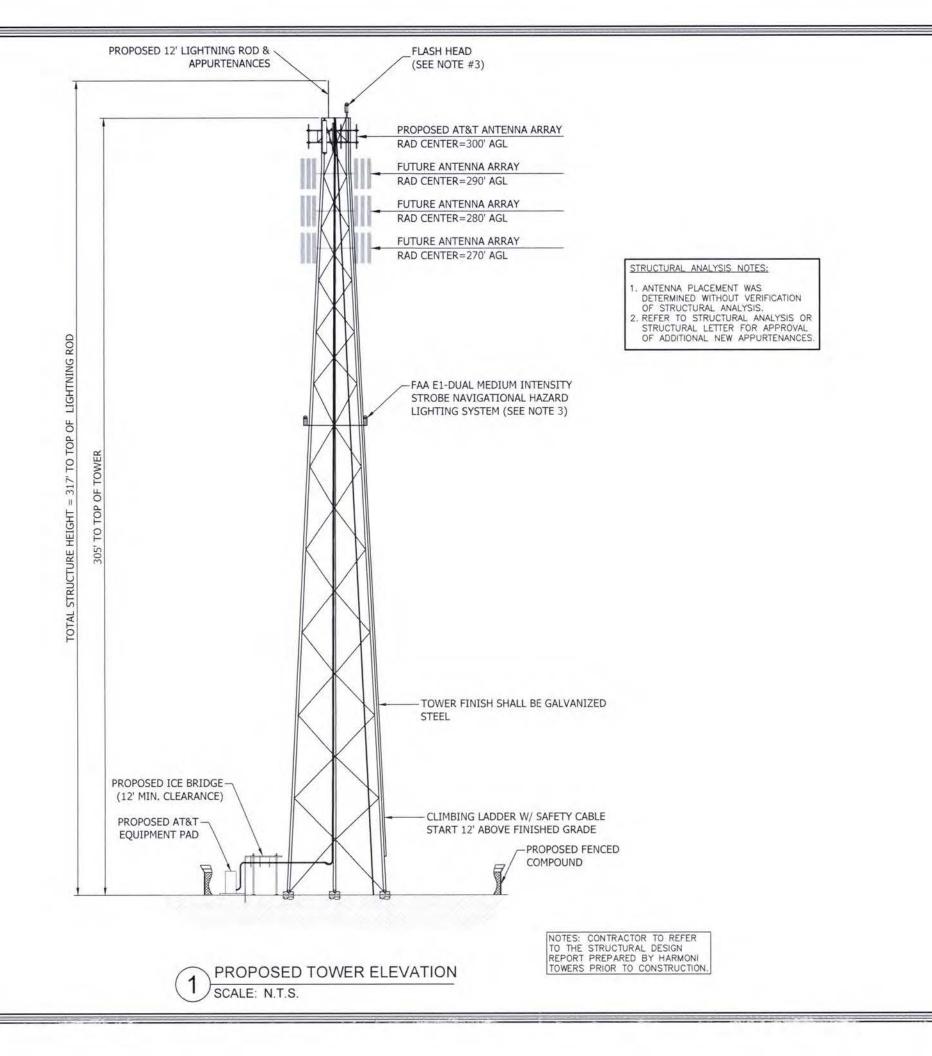


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> ENLARGED COMPOUND LAYOUT

SHEET NUMBER:

C-3









CHANDLER RD
FAR 15147579
PACE# NRTINK047532
PT# 10153678
312 CHANDLER RD
SHARPSBURG, NY 40374
BATH COUNTY

PROJECT NO:

CHECKED BY:

ISSUED FOR:

DLS

	155	OLED	FOR:
REV	DATE	DRWN	DESCRIPTION
Α	8/20/20	DLS	ZONING DRAWINGS
0	9/29/20	DLS	ZONING DRAWINGS
1	10/14/20	MAS	ZONING DRAWINGS

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



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> TOWER ELEVATION

> > SHEET NUMBER:

C-4

EXHIBIT C TOWER AND FOUNDATION DESIGN





July 20, 2020

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

RE: Site Name – Bethel Relo Proposed Cell Tower 38.2669530 North Latitude, 83.8468580 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 Culpepper Culpepper Date: 2020.07.20 11:06:41 -05'00'

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

		76	#	+	114	113	*	112	ž		T10	c	47		14.1		129	£		7.4	11	ži.	F
Legs		SR 4 3/4	3/4		SR 4 1/2	12	SR 4 1/4	1/4		SR 4		w	SR 3 3/4		SR 3 1/2	SR.	SR 3 1/4	SR 3	SR	SR 2 3/4	SR 2 1/4	SR	SR 1 3/4
Leg Grade											7 8	A529-50		5									
Diagonals			21.3	2L3x3x3/16x3/8			212	2L2 1/2x2 1/2x3/16x3/8	3/16x3/8	L3x3x1/4	x1/4		L3x3x3/16	3/16			L2 1/2x2 1/2x3/16	2x3/16	L2x2x	L2x2x3/16	L1 3/4	L1 3/4×1 3/4×3/16	9
Diagonal Grade												A36M-50	0										
Top Girts												N.A.											4
Horizontals			21.2 1/2	2L2 1/2x2 1/2x3/16x3/8	3/8		2L2x2x3/16x3/8	/16x3/8	m								NA						
Inner Bracing				1	L1 3/4x1 3/4x3/16	4x3/16										Ī	A Z						
Face Width (ft)	27	25.5		24	22.5	53	21	19,5		18	16.5		15	13.5		12	10.5		a	7.5		6	4875 4125
# Panels @ (ft)											56 @ 4.75	75					38773		v 7	V.001			11 23
Weight (K)	61.1	7.2	7.0.	99	10	2	5.3		11	4.7		12	3.6		3.2	92		27	4	1,8	2	90	9 0
	0.0 ft	ZUJU II.	20.0 ft	40.0 ft	60.0 ft		80 O ft	100.0 ft		120.0 ft	140.0 ft		160.0 ft	180,0 ft		200.0 ft	220.0 ft		240.0 ft	260.0 ft	W. S.	280.0 ft	295.0 ft

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod 1"x10"	305	Sector1(CaAa=10000 Sq.in)No Ice	276
Top Beacon	305	(Carrier 3)	
Sector1(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	300	Sector2(CaAa=10000 Sq.in)No Ice (Carrier 3)	276
Sector2(CaAa=13333.33 Sq.in)No Ice (Carrier 1)	300	Sector3(CaAa=10000 Sq.in)No Ice (Carrier 3)	276
Sector3(CaAa=13333.33 Sq.in)No Ice	300	4 1/2" OD Dish Mount (Carrier 4)	264
(Carrier 1)	250	4 1/2" OD Dish Mount (Carner 4)	264
Sector1(CaAa=10000 Sq.in)No Ice	288	6' MW Dish (Carrier 4)	264
(Carrier 2)		6' MW Dish (Carrier 4)	264
Sector2(CaAa=10000 Sq.in)No Ice (Carrier 2)	288	4 1/2" OD Dish Mount (Carrier 5)	252
		4 1/2" OD Dish Mount (Carrier 5)	252
Sector3(CaAa=10000 Sq.in)No Ice (Carrier 2)	288	6' MW Dish (Carrier 5)	252
(54770) 2/		6' MW Dish (Carrier 5)	252

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	L1 3/4×1 3/4×3/16	В	2L1 3/4x1 3/4x3/16x3/8

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

- 1. Tower is located in Bath County, Kentucky.
- 2. Tower designed for Exposure C to the TIA-222-H Standard.
- 3. Tower designed for a 106 mph basic wind in accordance with the TIA-222-H Standard.
- Tower is also designed for a 30 mph basic wind with 1.50 in ice. Ice is considered to increase in thickness with height.
- Deflections are based upon a 60 mph wind.
 Tower Risk Category II.

- Topographic Category 1 with Crest Height of 0,000 ft
 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: 658 K SHEAR: 49 K

UPLIFT: -565 K SHEAR: 44 K

> AXIAL 273 K

SHEAR MOMENT 11 K 2173 kip-ft

TORQUE 7 kip-ft 30 mph WIND - 1.500 in ICE

> AXIAL 104 K

SHEAR MOMENT 82 K 14592 kip-ft

TORQUE 49 kip-ft REACTIONS - 106 mph WIND





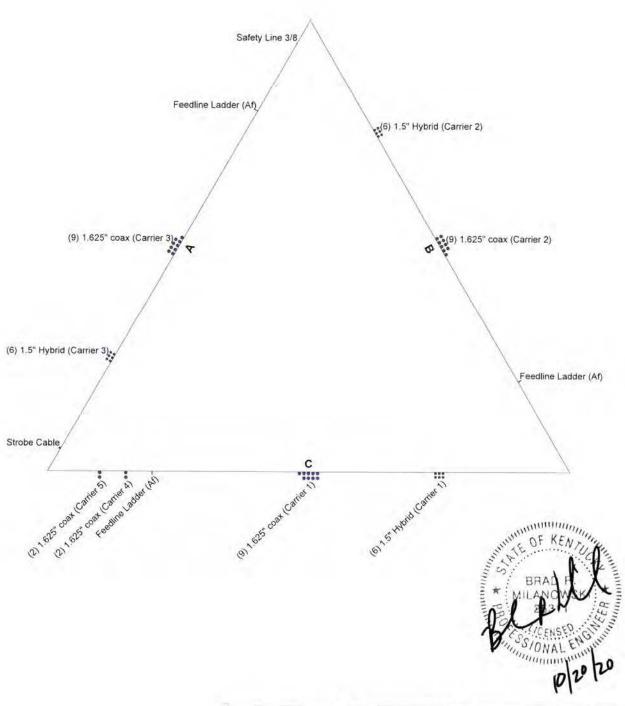
B+T Group

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

ATS #8642 - Chandler Road (Site# KYLEX205)

oject: 305' SST/38.266953, -83.846858

Client: Harmoni(Uniti) Towers Drawn by JLandon App'd Code TIA-222-H Date: 10/20/20 Scale NTS Dwg No. E-1



B+T Group
1717 S. Boulder Ave, Ste 300
Tulsa, OK 74119
Phone: (918) 587-4630
FAX: (918) 295-0265
Polect: 305' SST/38.266953, -83.846858
Client: Harmoni(Uniti) Towers Drawn by JLandon App'd:
Code: TIA-222-H
Path: Date: 10/20/20 Scale NTS
Dwg No. E-7

DIMENSIONING SCHEDULE	
A	37'0"
8 -	5.0
0	27'0"
D D	6 9 11/16"
- E	23' 4-9/16"
F	3"10-3/4"
	0.6
X	6'0'
1	2.6
MIN OVERLAP "M"	2,3,
DIAMPTER	3, 1/4

REINFORCING SCHEDULE	SIZE	TOTAL QTY
VERTICAL BARS WITH 90° BEND	#8	48
HORIZONTAL TIES	#4	42
HORIZONTAL U-BAR (PEDESTAL)	#4	12
TOP HORIZONTAL BARS	#8	76
BOTTOM HORIZONTAL BARS	#8	76
CORNER BARS	#4	8
VERTICAL LI-BARS (PAD)	#4	76

BASE REACTIONS: (FAC	TORED L	OADS
GLOBAL REAC	TIONS	44
MOMENT	14592	KIP-FT
JAKKA	104	KIPS:
SHEAR	87	KIPS
REACTIONS P	ER LEG	_
COMPRESSION AXIAL	658	KIPS .
COMPRESSION SHEAR	49	KIPS.
UPLIFT AXIAL	565	KIPS.
UPLIFT SHEAR	44	KIPS.

- NOTES:

 1 REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT THES MAY BE ASTM-615 (GRADE 40) WITH 3" MINIMUM CLEAR COVER
 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 DAXS GROUP PROJECT NUMBER: GE020-07035-08 TOATE SEPTEMBER 29, 2020

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.

CONCRETE VOLUME IN CUBIC YARDS: 129.9

- COMMETTE VOLUME IN CUBIC YARDS, 129.9

 ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

 CONCRETE FAILL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS.

 CONCRETE TESTING SHALL MEET DUBABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318;14

 ALL CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 318.14 A MINIMUM OF (2) 6"XL2" OR (3) 4"X8" CONCRETE CV UNDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6"X12" OR (6) 4"X8" CYUNDRESS PER BOTTO HEQUIRED.

 SLIMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM CL43. THE ALLOWABILE CONCRETE SLIMP SHALL BE 4 INCHES 16.1" UNLESS.

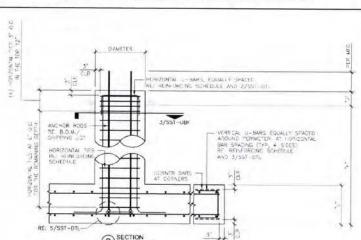
 ADMINITURES ARE USED. ADMINITURE SHALL BE IN ACCORDANCE WITH ASTM CL43. THE ALLOWABILE CONCRETE SLIMP SHALL BE 4 INCHES 16.1" UNLESS.

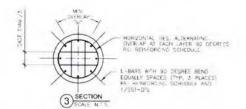
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- BASISFIL MATERIAL SHALL BE COMPACTED TO A MINIMUM UNIT WEIGHT SPECIFIED IN BEOTECH REPORT. THE SOIL SHALL BE INSTALLED IN BY TO 8: DETS AND COMPACTED THOROUGHLY TO ACHIEVE APPROPRIATE UNIT WEIGHT UNLESS GEOTECH SPECIFIES OTHER COMPACTION. REQUIREMENTS.
- LO VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.

STIPULATION FOR REUSE.

THIS DRAWING WAS SPECIFICACLY DESIGNED FOR USE BY THE COSTOMER ON THIS DRAWING AT THE SPECIFIED QUARTON, USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANUTRER PROJECT REQUIRES THE SERVICES OF A PROPERTY DICENSED ENGINEER.







1717 5 BO VLDER AVE #300, TULSA; OK 74119 (918) 587-4630



4020 TULL AVE. MUSKOGEE, OK 74403

REV	DATE	DESCRIPTION
.0	10/20/20	ISSUED FOR CONSTRUCTION
\neg		



THEY ARE ACTING UNDER THE DIRECTIONS OF A LICENSES PROFESSIONAL ENGINEER TO ALTER THIS DOCUMENT

PROJECT INFORMATION.

PROJECT NO: 145727.001.01 SITE NAME: CHANDLER ROAD

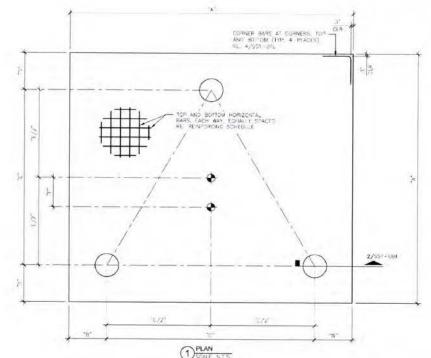
DUENT NAME: ARGOSA TELECOM STRUCTURES

DRAWN BY: JL CHECKED BY: BS

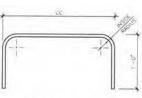
SHEET TITLE:

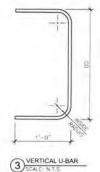
UNIT BASE FOUNDATION

SHEET NUMBER SST-UBF REVISION:















ARCOSA

B+T GRP

PERCOPACIONE WHILE

4020 TULL AVE. MUSKOGEE, DK 74403

REV.	DATE	DESCRIPTION
0	10/20/20	ISSUED FOR CONSTRUCTION



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PROJECT INFORMATION:

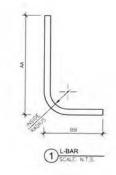
PROJECT NO: 145727.001.01 SITE NAME: CHANDLER ROAD SITE NO: 8642 CLIENT NAME: ARCOSA TELECOM STRUCTURE

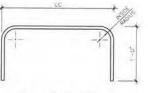
DRAWN BY 1L CHECKED BY BS

SHEET TITLE

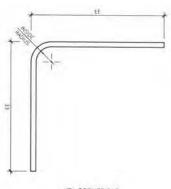
DIMENSIONING DETAIL

SHEET NUMBER: SST-DTI REVISION: 0











tnxTower .

B+T Group 1717 S. Boulder Ave, Ste 300

Tulsa, OK 74119 Phone: (918) 587-4630 FAX: (918) 295-0265

Job	ΓS #8642 - Chandler Road (Site# KYLEX2051)	Page 1 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Tower Input Data

The main tower is a 3x free standing tower with an overall height of 305.000 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 4.125 ft at the top and 27.000 ft at the base.

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

The following design criteria apply:

Tower is located in Bath County, Kentucky.

Tower base elevation above sea level: 922.000 ft.

Basic wind speed of 106 mph.

Risk Category II.

Exposure Category C.

Simplified Topographic Factor Procedure for wind speed-up calculations is used.

Topographic Category: 1. Crest Height: 0.000 ft.

Nominal ice thickness of 1.500 in.

Ice thickness is considered to increase with height.

Ice density of 56.000 pcf.

A wind speed of 30 mph is used in combination with ice.

Temperature drop of 50.000 °F.

Deflections calculated using a wind speed of 60 mph.

Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity...

A non-linear (P-delta) analysis was used.

Pressures are calculated at each section.

Stress ratio used in tower member design is 1.

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

Options

Consider Moments - Legs 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
- V Leg Bolts Are At Top Of Section
 V Secondary Horizontal Braces Leg
- Secondary Horizontal Braces Leg
 Use Diamond Inner Bracing (4 Sided)
 SR Members Have Cut Ends
 SR Members Are Concentric

Distribute Leg Loads As Uniform Assume Legs Pinned

- V 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

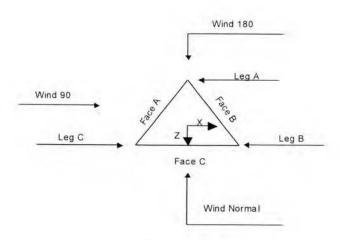
Use ASCE 10 X-Brace Ly Rules

- 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

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

Job		Page
-	ATS #8642 - Chandler Road (Site# KYLEX2051)	2 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon



Triangular Tower

	Tower Section Geometry							
Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length		
	ft			ft		ft		
TI	305.000-295.000			4.125	1	10.000		
T2 -	295.000-280.000			4.875	1	15.000		
T3	280.000-260.000			6.000	1	20.000		
T4	260 000-240 000			7.500	1	20.000		
T5	240.000-220.000			9.000	1	20.000		
T6	220.000-200.000			10.500	1	20 000		
T7	200.000-180.000			12.000	i	20 000		
T8	180.000-160.000			13.500	1	20 000		
T9	160.000-140.000			15.000	1	20.000		
T10	140.000-120.000			16.500	1	20.000		
T11	120.000-100.000			18.000	1	20.000		
T12	100.000-80.000			19.500	1	20.000		
T13	80.000-60.000			21.000	1	20.000		
T14	60.000-40.000			22.500	1	20.000		
T15	40.000-20.000			24 000	1	20.000		
T16	20 000-0 000			25.500	1	20.000		

Tower Section Geometry (cont'd)

Job		Page
AT	S #8642 - Chandler Road (Site# KYLEX2051)	3 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Tower	Tower	Diagonal	Bracing	Has	Has	Top Girt	Bottom Girt
Section	Elevation	Spacing	Type	K Brace	Horizontals	Offset	Offset
				End		1.34	EL MARTINIA CO
	ft	ft		Panels		in	in
TI	305.000-295.000	4.500	X Brace	No	No	6.000	6.000
T2	295 000-280 000	4.667	X Brace	No	No	6 000	6 000
T3	280.000-260.000	4.750	X Brace	No	No	6.000	6.000
T4	260.000-240.000	4 750	X Brace	No	No	6 000	6.000
T5	240.000-220.000	4 750	X Brace	No	No	6 000	6.000
T6	220.000-200.000	4.750	X Brace	No	No	6 000	6.000
T7	200 000-180 000	4.750	X Brace	No	No	6 000	6.000
T8	180 000-160 000	4.750	X Brace	No	No	6 000	6.000
T9	160 000-140 000	4.750	X Brace	No	No	6 000	6.000
T10	140 000-120 000	4.750	X Brace	No	No	6 000	6.000
T11	120 000-100 000	4.750	Double K	No	Yes	6.000	6.000
T12	100.000-80.000	4.750	Double K	No	Yes	6 000	6.000
T13	80.000-60.000	4.750	Double K	No	Yes	6 000	6.000
T14	60.000-40.000	4 750	Double K	No	Yes	6.000	6.000
T15	40.000-20.000	4 750	Double K	No	Yes	6.000	6.000
T16	20.000-0.000	4.750	Double K	No	Yes	6.000	6 000

Tower	Section	Geometry	(cont'd
Tower	Section	Geometry	(cont a

Towns	Leg	Leg	Diagonal	Diagonal	Diagonal
Туре	Size	Grade	Type	Size	Grade
Solid Round	1 3/4	A529-50	Equal Angle	1.1 3/4×1 3/4×3/16	A36M-50
			riquit tingle	21 3/421 3/423/10	(50 ksi)
Solid Round	1 3/4	# C76/25 (C76/25 PM)	Foual Angle	1 1 3/4×1 3/4×3/16	A36M-50
			edam rugic	41 51 441 51 445 10	(50 ksi)
Solid Round	2 1/4		Equal Angle	1.1 3/4×1 3/4×3/16	A36M-50
				27 37 TAT 37 TAS/ 15	(50 ksi)
Solid Round	2.3/4		Faual Angle	1.2x2x3/16	A36M-50
	3,510,		Equal Angle	152.82.837.10	(50 ksi)
Solid Round	3		Faual Angle	12 1/2×2 1/2×3/16	A36M-50
			Equal Angle	DE 1/2X2 1/2X3/10	(50 ksi)
Solid Round	3 1/4		Faual Apple	1.2 1/2×2 1/2×3/16	A36M-50
			Equal rangic	CZ WZXZ WZXJ/10	(50 ksi)
Solid Round	3 1/2		Faual Angle	13v3v3/16	A36M-50
	3.775		equal ringle	L33333710	(50 ksi)
Solid Round	3 3/4		Fanal Angle	13v3v3/16	A36M-50
			Equal rangic	L3X3X3/10	(50 ksi)
Solid Round	3 3/4		Equal Angle	132323/16	A36M-50
	0.707		Equal Migre	138383/10	(50 ksi)
Solid Round	4		Faural Anole	13v3v1/4	A36M-50
			Equal Fingle	23838174	(50 ksi)
Solid Round	4		Double Angle	21.2.1/252.1/252/1652/9	A36M-50
	9	The state of the s	Doddie Angle	2L2 1/2X2 1/2X3/10X3/8	(50 ksi)
Solid Round	4 1/4		Double Angle	21.2 1/2×2 1/2×2/16×2/9	A36M-50
	2.407		Double Angle	21.2 1/232 1/23/103/6	(50 ksi)
Solid Round	4 1/2		Double Angle	21 3 2 2 2 / 16 2 3 / 9	A36M-50
A CICH AND MAN	25.00		Dodole Aligie	21.3333/1033/6	
Solid Round	4 1/2		Double Angle	21 3 2 3 2 3 / 16 2 3 / 9	(50 ksi) A36M-50
WHEEL STREET	1.11-		Loudie Angle	4L3X3X3/10X3/8	
Solid Round	4 3/4		Double Angla	21.3×3×3/16×3/9	(50 ksi) A36M-50
	7.2/7		Dodole Angle	2L3X3X3/10X3/8	
Solid Round	4 3/4		Double Angle	21 332/162/8	(50 ksi)
	7.2/7		Double Angle	2L3X3X3/10X3/8	A36M-50 (50 ksi)
100 100 100 100 100 100 100 100 100 100	Solid Round	Solid Round 1 3/4 Solid Round 2 1/4 Solid Round 2 3/4 Solid Round 3 Solid Round 3 1/4 Solid Round 3 1/2 Solid Round 3 3/4 Solid Round 4 Solid Round 4 Solid Round 4 Solid Round 4 1/4 Solid Round 4 1/2 Solid Round 4 1/2 Solid Round 4 3/4	Solid Round 1 3/4 A529-50 (50 ksi) Solid Round 1 3/4 A529-50 (50 ksi) Solid Round 2 1/4 A529-50 (50 ksi) Solid Round 2 3/4 A529-50 (50 ksi) Solid Round 3 1/4 A529-50 (50 ksi) Solid Round 3 1/2 A529-50 (50 ksi) Solid Round 3 3/4 A529-50 (50 ksi) Solid Round 3 3/4 A529-50 (50 ksi) Solid Round 4 A529-50 (50 ksi) Solid Round 4 A529-50 (50 ksi) Solid Round 4 1/4 A529-50 (50 ksi) Solid Round 4 1/2 A529-50 (50 ksi) Solid Round 4 1/2 A529-50 (50 ksi) Solid Round 4 1/2 A529-50 (50 ksi) Solid Round 4 3/4 A529-50 (50 ksi) Solid Round 4 3/4 A529-50 (50 ksi)	Solid Round	Solid Round 1 3/4

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

Job /	ATS #8642 - Chandler Road (Site# KYLEX2051)	Page 4 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

	Tower Section Geometry (cont'd)								
Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade			
T1 305.000-295.000	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50	Solid Round		A529-50			

	Tower Section Geometry (cont'd)									
Tower Elevation	No. of Mid	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade			
JI	Girts									
T11 120.000-100.000	None	Flat Bar		A36 (36 ksi)	Double Angle	2L1 3/4x1 3/4x3/16x3/8	A36M-50 (50 ksi)			
T12 100 000-80 000	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2x2x3/16x3/8	A36M-50 (50 ksi)			
T13 80.000-60.000	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)			
T14 60 000-40 000	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)			
T15 40.000-20.000	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)			
T16 20.000-0.000	None	Flat Bar		A36 (36 ksi)	Double Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)			

	Tower Section Geometry (cont'd)								
Tower Elevation	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade			
Ťiı	Solid Round		A572-50	Single Angle	L1 3/4x1 3/4x3/16	A36M-50			
120.000-100.000			(50 ksi)			(50 ksi)			
T12	Solid Round		A572-50	Single Angle	L1 3/4x1 3/4x3/16	A36M-50			
100.000-80.000			(50 ksi)			(50 ksi)			
T13	Solid Round		A572-50	Single Angle	L1 3/4x1 3/4x3/16	A36M-50			
80.000-60.000			(50 ksi)			(50 ksi)			
T14	Solid Round		A572-50	Single Angle	L1 3/4x1 3/4x3/16	A36M-50			
60.000-40.000			(50 ksi)			(50 ksi)			
T15	Solid Round		A572-50	Single Angle	L1 3/4x1 3/4x3/16	A36M-50			
40.000-20.000			(50 ksi)			(50 ksi)			
T16 20 000-0 000	Solid Round		A572-50	Single Angle	L1 3/4x1 3/4x3/16	A36M-50			
			(50 ksi)	CONGRES SALES	E-1	(50 ksi)			

Tower Section Geometry (cont'd)

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AT	S #8642 - Chandler Road (Site# KYLEX2051)	5 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Tower Elevation fi	Gusset Area (per face)	Gusset Thickness in	Gusset Grade	Adjust Factor A ₁	Adjust. Factor A,	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals	Double Angle Stitch Bolt Spacing Horizontals	Stitch Bolt Spacing Redundants
T1	0.000		11/1/20				in	in	in
305 000-295 0	0.000	0.375	A36M-50 (50 ksi)	1	- 1	1	36.000	36.000	36 000
T2 295 000-280 0 00	0.000	0.375	A36M-50 (50 ksi)	1	1	4	36.000	36.000	36.000
T3 280 000-260 0 00	0.000	0.375	A36M-50 (50 ksi)	Ī	I.	11	36.000	36.000	36 000
T4 260 000-240 0 00	0.000	0.375	A36M-50 (50 ksi)	1	1 -	1	36.000	36.000	36.000
T5 240 000-220 0 00	0.000	0.375	A36M-50 (50 ksi)	1	£	1	36.000	36.000	36 000
T6 220 000-200 0 00	0.000	0.375	A36M-50 (50 ksi)	1	I	1	36.000	36.000	36.000
T7 200 000-180 0 00	0.000	0 375	A36M-50 (50 ksi)	1	1	1	36 000	36.000	36 000
T8 180 000-160 0	0 000	0.375	A36M-50 (50 ksi)	Ī	1	1	36.000	36,000	36.000
T9 160,000-140.0 00	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36 000	36.000
T10 140 000-120 0 00	0.000	0.375	A36M-50 (50 ksi)	1	1	1	36.000	36 000	36.000
T11 120,000-100.0 00	0.000	0.375	A36M-50 (50 ksi)	1	1	1	Mid-Pt	Mid-Pt	36.000
T12 100 000-80 00 0	0.000	0.375	A36M-50 (50 ksi)	1	1	1	Mid-Pt	Mid-Pt	36 000
T13 80.000-60.000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	Mid-Pt	Mid-Pt	36.000
T14 60.000-40 000	0.000	0.375	A36M-50 (50 ksi)	1	1	1	Mid-Pt	Mid-Pt	36.000
T15 40 000-20 000 T16	0.000	0.375	A36M-50 (50 ksi)	1	1	1	Mid-Pt	Mid-Pt	36.000
20 000-0 000	WAND.	0.375	A36M-50 (50 ksi)	Į.	1	1	Mid-Pt	Mid-Pt	36,000

Tower Section Geometry (cont'd)

						K Fa	ctors1			Inner Brace
Tower Elevation	Calc K Single	Calc K Solid	Legs	X Brace Diags	K Brace Diags	Single Diags	Girts	Horîz.	Sec. Horiz.	
- 02	Angles	Rounds		X	X	X	X	X	X	X
ft				Y	Y	Y	Y	Y	Y	Y
TI	No	No	1	1	1	1	1	I	1	1

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	ATS #8642 - Chandler Road (Site# KYLEX2051)	6 of 38
Project		Date
	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

						K Fa	ctors1			
Tower Elevation	Calc K Single Angles	Calc K Solid Rounds	Legs	X Brace Diags X	K Brace Diags X	Single Diags X	Girts X	Horiz.	Sec. Horiz. X	Inner Brace X
ft				Y	Y	Y	Y	Y	Y	Y
305 000-295 0 00				1	1	1	1	1	1	L
T2 295.000-280.0 00	No	No	1	1	1	1	1	1	1	1
T3 280 000-260 0 00	No	No	T)	1	1	1	1	1	1	1
T4 260.000-240.0 00	No	No	1	1	1	1	1	1	1	1
T5 240,000-220.0 00	No	No	1	1	1	1	1	1	1	1
T6 220.000-200.0 00	No	No	i	1	1	1	1	1	1	1
T7 200.000-180.0 00	No	No	1	1	1	Ī	1	1	1	1
T8 180.000-160.0 00	No	No	1	1	1	1	1	1	1	1
T9 160.000-140.0 00	No	No	I	1	1	1	I	1	1	1
T10 140 000-120 0 00	No	No	ı	1	1	1	1	i i	i i	1
T11 120 000-100.0 00	No	No	1	1	1	I.	1	1	1	1
T12 100.000-80.00 0	No	No	1	1	1	I I	1	1	1	1
T13 80 000-60 000	No	No	1	1	1	1	1	1	1	1
T14 60.000-40.000 T15	No No	No No	1	1	I I	1	1	1	1	1
10.000-20.000 T16	No	No	1	1	1	1	1	1	1	1
20.000-0.000				1	1	1	1	1	1	1

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

Job	ATC #9642 Chardles Deed (Cit-# IVVI EV2054)	Page 7 of 38
X	ATS #8642 - Chandler Road (Site# KYLEX2051)	7 01 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Tower Elevation fi	Leg		Diago	nal	Top C	irt	Botto	n 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 305.000-295.0 00	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 295 000-280 0 00	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 280 000-260 0 00	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 260.000-240.0 00	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 240.000-220.0 00	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 220.000-200.0 00	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 200 000-180.0 00	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 180.000-160.0 00	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 160 000-140 0 00	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 140,000-120,0 00	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
T11 120.000-100.0 00		1	0.000	0.75	0.000	0.75	0.000	0 75	0.000	0.75	0.000	0.75	0.000	0.75
T12 100.000-80.00 0	.,	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T13 80 000-60 000 T14	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
50 000-40 000 T15 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
T16 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

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Project		Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Tower Elevation ft	Leg Connection Type	Leg		Diago	nal	Top G	irt	Bottom	Girt	Mid G	irt	Long Hor	izontal	Short Hor	izontal
		Bolt Size	No	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.	Bolt Size	No.
T1 305 000-295 0 00		0 000 A325N	0	0.625 A325X	1	0,625 A325X	1	0 000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	-0
T2 295.000-280.0 00	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	.0	0.625 A325N	0
T3 280.000-260.0 00	Flange	0.750 A325N	6	0.625 A325X	ī	0 000 A325X	0	0 000 A325N	0	0.625 A325N	0	0 000 A325X	0	0.625 A325N	0
T4 260 000-240 0 00	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T5 240 000-220 0 00	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T6 220 000-200 0 00	Flange	0.750 A325N	6	0 625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0 625 A325N	0
T7 200 000-180 0 00	Flange	1.000 A325N	6	0.625 A325X	1	.0.000 A325X	0	0 000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	-0
T8 180 000-160 0 00	Flange	1 000 A325N	6	0.625 A325X	Ī	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T9 160 000-140 0 00	Flange	1.000 A325N	6	0 625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T10 140 000-120 0 00	Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0 000 A325X	0	0.625 A325N	0
T11 120 000-100 0 00	Flange	1.250 A325N	6	0.625 A325X	1	0 000 A325X	0	0,000 A325N	0	0.625 A325N	0	0.625 A325X	1	0 625 A325N	.0
T12 100 000-80 00 0	Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325N	0	0.625 A325N	0	0.625 A325X	1	0.625 A325N	0
T13 80 000-60 000	Flange	1 250 A325N	6	0.625 A325X	1.	0 000 A325X	0	0.000 A325N	0	0.625 A325N	0	0 625 A325X	1	0.625 A325N	0
T14 60.000-40.000 T15	Flange	1.250 A325N 1.250	6	0.625 A325X 0.625	1	0.000 A325X 0.000	0.	0.000 A325N 0.000	0	0.625 A325N 0.625	0	0 625 A325X 0.625	1	0.625 A325N 0.625	0
40.000-20.000 T16	Flange	A325N 1.500	6	A325X 0.625	1	A325X 0.000	0	A325N 0.000	0	A325N 0.625	0	A325X 0.625	i	A325N 0.625	0
20.000-0.000		A325N		A325X		A325X		A325N		A325N		A325X		A325N	

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or	Allow Shield	Exclude From	Component Type	Placement	Face Offset	Lateral Offset	#	# Per	Clear Spacing	Width or Diameter	Perimeter	Weight
	Leg		Torque Calculation		ft	in	(Frac FW)		Row	in	in	in	klf
1.625" coax (Carrier 1)	С	No	No	Ar (CaAa)	300,000 - 10,000	0.000	0	9	5	0.750	1.980		0,001
1.5" Hybrid	C	No	No	Ar (CaAa)	300.000 -	0.000	-0.25	6	3	0.750	1.500		0.001

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Job	Example State of Control of the Year	Page
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Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by

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
(Carrier 1)					10.000								
1.625" coax (Carrier 2)	В	No	No	Ar (CaAa)	288.000 - 10.000	0.000	0	9	5	0 750	1.980		0.001
1.5" Hybrid (Carrier 2) **	В	No	No	Ar (CaAa)	288 000 - 10 000	0.000	-0.25	6	3	0.750	1.500		0.001
1.625" coax (Carrier 3)	A	No	No	Ar (CaAa)	276.000 - 10.000	0.000	0	9	5	0.750	1 980		0.001
1.5" Hybrid (Carner 3)	A	No	No	Ar (CaAa)	276 000 - 10 000	0.000	-0.25	6	3	0.750	1.500		0 001
1.625° coax (Carrier 4)	C	No	No	Ar (CaAa)	264.000 - 10.000	0.000	0.35	2	1	0.750	1.980		0.001
1 625" coax (Carrier 5) **	C	No	No	Ar (CaAa)	252.000 - 10.000	0.000	0.4	2	1	0.750	1 980		0.001
Safety Line 3/8	A	No	No	Ar (CaAa)	305.000 - 10.000	0.000	0.45	1	1	0.375	0 375		0.000
Strobe Cable	A	No	No	Ar (CaAa)	305 000 - 10.000	0.000	-0.45	1	1	1 250	1 250		0 001
Feedline Ladder (Af)	C	No	No	Af (CaAa)	300 000 - 10 000	0.000	0.3	1	1	3,000	0.250		0.008
Feedline Ladder (Af)	В	No	No	Af (CaAa)	288 000 - 10 000	0.000	0.3	1	1	3 000	0.250		0.008
Feedline Ladder (Af) **	A	No	No	Af (CaAa)	276,000 - 10,000	0.000	0.3	1	1	3.000	0.250		0.008

		Fee	d Line	/Linear	Appurte	enances -	Entered A	s Area
Description	Face or	Allow Shield	Exclude From	Component Type	Placement	Total Number	C_4A_A	Weight
	Leg		Torque Calculation		fi	1.3400.00	ft²/ft	klf
**								

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation	Face	A_R	A_F	C ₄ A ₄ In Face	C ₄ A ₄ Out Face	Weight
	ft		ft²	fr²	fř	fr ²	K
T1	305,000-295,000	A	0.000	0.000	1.625	0.000	0.009
		В	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	13.618	0.000	0.103
T2	295.000-280.000	A	0.000	0.000	2.438	0.000	0.014
		В	0.000	0.000	21 789	0.000	0.164
		C	0 000	0.000	40.855	0.000	0.308

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

Job		Page
A.	TS #8642 - Chandler Road (Site# KYLEX2051)	10 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Tower Section	Tower Elevation	Face	A_R	A_F	C_4A_A In Face	C ₄ A ₄ Out Face	Weight
	ft		fr	ft ²	ft ²	fr	K
T3	280.000-260.000	A	0.000	0.000	46 829	0.000	0.347
		В	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	56.057	0.000	0.416
T4	260 000-240 000	A	0.000	0.000	57.723	0.000	0.429
		В	0.000	0.000	54 473	0.000	0.410
		C	0.000	0.000	67 145	0.000	0.456
T5	240.000-220.000	A	0.000	0.000	57.723	0.000	0.429
		В	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T6	220.000-200.000	A	0.000	0.000	57.723	0.000	0.429
		В	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
17	200.000-180.000	A	0.000	0.000	57.723	0.000	0.429
		В	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T8	180.000-160.000	A	0.000	0.000	57.723	0.000	0.429
		В	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T9	160 000-140 000	A	0.000	0.000	57.723	0.000	0.429
		В	0.000	0.000	54 473	0.000	0.410
		C	0.000	0.000	70 313	0.000	0.468
T10	140.000-120.000	A	0.000	0.000	57.723	0.000	0.429
		В	0.000	0.000	54 473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T11	120 000-100 000	A	0.000	0.000	57 723	0.000	0.429
		В	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70 313	0.000	0.468
T12	100 000-80 000	A	0.000	0.000	57.723	0.000	0.429
		В	0.000	0.000	54.473	0.000	0.410
		C	0.000	0.000	70.313	0.000	0.468
T13	80 000-60 000	A	0.000	0.000	57 723	0.000	0.429
		В	0.000	0.000	54.473	0.000	0.410
200		C	0.000	0.000	70 313	0.000	0.468
T14	60 000-40 000	A	0.000	0.000	57.723	0.000	0.429
		В	0.000	0.000	54,473	0.000	0.410
mi e	12 22 22 22	C	0.000	0.000	70.313	0.000	0 468
T15	40.000-20.000	A	0.000	0.000	57.723	0.000	0.429
		В	0.000	0.000	54.473	0.000	0.410
mi c	Carlot Carlo	C	0.000	0.000	70.313	0.000	0.468
T16	20.000-0.000	A	0.000	0.000	28 862	0.000	0.214
		В	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	Face	Ice Thickness	A_R	A_F	C _A A _A In Face	C ₄ A ₄ Out Face	Weight
	fi	Leg	in	ft ²	str.	ft ²	ft ²	K
TI	305.000-295.000	A	1.870	0.000	0.000	9.107	0.000	0.132
		В		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	21.424	0.000	0.443
T2	295 000-280 000	A	1.863	0.000	0.000	13.613	0.000	0.196
		В		0.000	0.000	34.222	0.000	0.706
		C		0.000	0.000	64 166	0.000	1 323
T3	280.000-260.000	A	1 851	0.000	0.000	86.335	0.000	1 664
		В		0.000	0.000	85.348	0.000	1.756
		C		0.000	0.000	90.423	0.000	1 831
T4	260.000-240.000	A	1.837	0.000	0 000	103.040	0.000	2 002

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

Job		Page
A.	TS #8642 - Chandler Road (Site# KYLEX2051)	11 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Tower Section	Tower Elevation	Face or	Ice Thickness	A_R	A_F	C ₁ A _{.1} In Face	C _A A _A Out Face	Weigh
	fi	Leg	in	fr	fr.	ft²	fr'	K
		В		0.000	0.000	85 096	0.000	1 746
		C		0.000	0.000	125 542	0.000	2.340
T5	240.000-220.000	A	1 821	0.000	0.000	102.647	0.000	1 988
		В		0.000	0.000	84.826	0.000	1.735
		C		0.000	0.000	135 171	0.000	2 469
T6	220.000-200.000	A	1.805	0.000	0.000	102.223	0.000	1 972
		В		0.000	0.000	84.533	0.000	1 723
		C		0.000	0.000	134.650	0.000	2.449
T7	200.000-180.000	A	1 787	0.000	0.000	101 761	0.000	1.956
		В		0.000	0.000	84.215	0.000	1 710
		C		0.000	0.000	134.082	0.000	2.426
T8	180.000-160.000	A	1.767	0.000	0.000	101 252	0.000	1 938
		В		0.000	0.000	83.865	0.000	1.696
		C		0.000	0.000	133 458	0.000	2 401
T9	160.000-140.000	A	1 745	0.000	0.000	100.687	0.000	1.918
		В		0.000	0.000	83 475	0.000	1 681
		C		0.000	0.000	132.763	0.000	2.374
T10	140.000-120.000	A	1.720	0.000	0.000	100.049	0.000	1.895
		В		0.000	0.000	83.036	0.000	1.664
		C		0.000	0.000	131 980	0.000	2.344
T11	120.000-100.000	A	1.692	0.000	0.000	99 316	0.000	1.869
		В		0.000	0.000	82 531	0.000	1 644
		C		0.000	0.000	131 080	0.000	2 309
T12	100,000-80,000	A	1.658	0.000	0.000	98.452	0.000	1.839
		В		0.000	0.000	81 936	0.000	1.621
		C		0.000	0.000	130 019	0.000	2.268
T13	80.000-60.000	A	1.617	0.000	0.000	97.395	0.000	1.803
		В		0.000	0.000	81.207	0.000	1.592
		C		0.000	0.000	128 721	0.000	2 2 1 9
T14	60 000-40 000	A	1.564	0.000	0.000	96.020	0.000	1 756
		В		0.000	0.000	80.261	0.000	1.556
Table of the		C		0.000	0.000	127.033	0.000	2 155
T15	40.000-20.000	A	1.486	0.000	0.000	94.020	0.000	1.689
		В		0.000	0.000	78 884	0.000	1.504
		C		0.000	0.000	124.579	0.000	2 065
T16	20.000-0.000	A	1 331	0.000	0.000	45 026	0.000	0.781
		В		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	CP_X	CP_Z	CP_X	CP_Z
	to the second			Ice	Ice
	ft	in	in	in	in
TI	305.000-295.000	0.415	3 412	-1.012	2 144
T2	295.000-280.000	3.272	1 361	1.779	1.815
T3	280.000-260.000	0.560	-2.397	-0.533	-1.384
T4	260 000-240 000	-1.522	-0.952	-3.317	0.682
T5	240.000-220.000	-1.963	-0.492	-4.189	1 426
T6	220.000-200.000	-2.137	-0.534	-4.589	1 552
T7	200.000-180.000	-2.143	-0.539	-4.794	1 621
T8	180.000-160.000	-2 263	-0.569	-5.091	1.717
T9	160 000-140 000	-2 381	-0.599	-5.365	1.806
T10	140 000-120 000	-2.479	-0.624	-5.595	1.882
T11	120.000-100.000	-3 199	-0.787	-6.661	2 206
T12	100 000-80 000	-3.289	-0.811	-6.870	2 277
T13	80.000-60.000	-3.142	-0.782	-6.797	2 267

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Job	ATS #8642 - Chandler Road (Site# KYLEX2051)	Page 12 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Section	Elevation	CP_X	CP_Z	CP_X	CP_Z
				Ice	lee
	fi	in	in	in	in
T14	60.000-40.000	-3.245	-0.808	-6 964	2 326
T15	40.000-20.000	-3,330	-0.830	-7.048	2 359
T16	20.000-0.000	-2.025	-0.518	-4 252	1 463

Shielding Factor Ka

١	Tower	Feed Line	Description	Feed Line	Ka	K_{μ}
ı	Section	Record No.		Segment Elev.	No Ice	Ice
١	TI	- 1	1 625" coax	295.00 - 300.00	0.6000	0.5508
١	TI	2	1.5" Hybrid	295.00 - 300.00	0.6000	0.5508
I	Ti	14	Safety Line 3/8	295 00 - 305 00	0.6000	0.5508
١	TI	15	Strobe Cable	295.00 - 305.00	0.6000	0.5508
I	-T1	17	Feedline Ladder (Af)	295.00 - 300.00	0.6000	0.5508
I	T2	1	1 625" coax	280 00 - 295 00	0.6000	0.6000
I	Т2	2	1.5" Hybrid	280 00 - 295 00	0.6000	0 6000
I	T2	4	1 625" coax	280 00 - 288 00	0 6000	0.6000
I	72	5	1.5" Hybrid	280.00 - 288.00	0.6000	0.6000
I	T2	14	Safety Line 3/8	280.00 - 295.00	0.6000	0.6000
I	T2	15	Strobe Cable	280.00 - 295.00	0.6000	0.6000
I	Т2	- 17	Feedline Ladder (Af)	280 00 - 295 00	0.6000	0.6000
ı	Т2	18	Feedline Ladder (Af)	280.00 - 288.00	0.6000	0 6000
I	Т3	-1	1 625" coax	260.00 - 280.00	0.6000	0 6000
ı	Т3	2	1.5" Hybrid	260 00 - 280 00	0.6000	0.6000
ı	Т3	4	1.625" coax	260 00 - 280 00	0.6000	0.6000
ı	Т3	5	1.5" Hybrid	260.00 - 280.00	0.6000	0.6000
ı	Т3	7	1 625" coax	260.00 - 276.00	0.6000	0.6000
ı	Т3	8	1.5" Hybrid	260.00 - 276.00	0.6000	0.6000
I	Т3	10	1 625" coax	260 00 - 264 00	0.6000	0.6000
I	Т3	14	Safety Line 3/8	260.00 - 280.00	0.6000	0.6000
I	Т3	15	Strobe Cable	260.00 - 280.00	0.6000	0.6000
١	Т3	17	Feedline Ladder (Af)	260.00 - 280.00	0 6000	0.6000
l	Т3	18	Feedline Ladder (Af)	260.00 -	0.6000	0.6000

Job	ATC #9642 Chandler Bood (Site# IVI EV2064)	Page 13 of 38
	ATS #8642 - Chandler Road (Site# KYLEX2051)	13 01 30
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K _a Ice
т3	19	Feedline Ladder (Af)	7.500	0.6000	0.6000
T4	1	1.625" coax	276.00 240.00 -	0 6000	0.6000
'Γ4	2	1.5" Hybrid		0.6000	0 6000
T4	4	1 625" coax	260 00 240 00 - 260 00	0.6000	0.6000
T4	5	1.5" Hybrid	240 00 - 260 00	0.6000	0.6000
T4	7	1.625" coax	240.00 - 260.00	0 6000	0.6000
T4	8	1.5" Hybrid	240 00 - 260 00	0.6000	0.6000
T4	10	1 625" coax	240,00 - 260.00	0 6000	0.6000
T4	12	1 625" coax	240 00 - 252 00	0 6000	0.6000
T4	14	Safety Line 3/8	240 00 - 260 00	0 6000	0.6000
T4	15	Strobe Cable	240.00 - 260.00	0 6000	0.6000
T4	17	Feedline Ladder (Af)	240.00 - 260.00	0.6000	0.6000
T4	18	Feedline Ladder (Af)	240.00 - 260.00	0 6000	0.6000
Т4	19	Feedline Ladder (Af)	240.00 - 260.00	0.6000	0.6000
T5	1	1.625" coax	220.00 - 240.00	0.6000	0.6000
Т5	2	1 5" Hybrid	220.00 - 240.00	0.6000	0.6000
T5	4	1 625" coax	220 00 - 240 00	0.6000	0 6000
T5	5	I 5" Hybrid	220.00 - 240.00	0.6000	0.6000
T5	7	1 625" coax	220.00 - 240.00	0.6000	0.6000
Т5	8	I 5" Hybrid	220 00 - 240 00	0.6000	0.6000
T5	10	1.625" coax	220.00 - 240.00	0.6000	0.6000
T5	12	1 625" coax	220.00 - 240.00	0.6000	0 6000
T5	14	Safety Line 3/8	220 00 - 240 00	0.6000	0 6000
T5	15	Strobe Cable	220.00 - 240.00	0 6000	0.6000
T5.	17	Feedline Ladder (Af)	220.00 - 240.00	0.6000	0.6000
T5	18	Feedline Ladder (Af)	220.00 - 240.00	0 6000	0.6000
T5	19	Feedline Ladder (Af)	220.00 - 240.00	0 6000	0.6000
Т6	1	1 625" coax	200.00 - 220.00	0.6000	0.6000
Т6	2	1.5" Hybrid	200 00 - 220 00	0.6000	0 6000
Т6	4	1 625" coax	200.00 - 220.00	0.6000	0.6000
Т6	5	1.5" Hybrid		0.6000	0.6000

Job		Page
AT	S #8642 - Chandler Road (Site# KYLEX2051)	14 of 38
Project		Date
	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client	11	Designed by
	Harmoni(Uniti) Towers	JLandon

Tower	Feed Line	Description	Feed Line	K _a	K _a Ice	
Section	Record No.		Segment Elev.	No Ice		
Т6	7	1 625" coax	220.00 200.00 -	0.6000	0.600	
Т6	8	1.5" Hybrid	220.00 200.00 -	0.6000	0.600	
2.54			220.00			
Т6	10	1.625" coax	200.00 - 220.00	0.6000	0.600	
Т6	12	1 625" coax	200 00 - 220 00	0.6000	0.600	
Т6	14	Safety Line 3/8	200.00 -	0 6000	0.600	
Т6	15	Strobe Cable	220.00 200.00 -	0.6000	0.6000	
Т6	17	Feedline Ladder (Af)	220.00 -	0.6000	0.6000	
Т6	18	Feedline Ladder (Af)	220.00 200.00 -	0.6000	0.6000	
Т6	19	Feedline Ladder (Af)	220 00 200.00 -	0 6000	0.6000	
			220.00	97374		
T7	1,	1.625" coax	180.00 - 200.00	0 6000	0.6000	
T7	2	1 5" Hybrid	180 00 - 200 00	0 6000	0.6000	
T7	4	1.625" coax	180.00 - 200.00	0 6000	0.6000	
T7	.5	1.5" Hybrid	180.00 -	0.6000	0.6000	
Т7	7	1 625" coax	200.00 180.00 -	0 6000	0.6000	
T7	8	t 5" Hybrid	200.00 180.00 -	0.6000	0.6000	
T7	10	1.625" coax	200.00 180.00 -	0.6000	0.6000	
Т7	12	1.625" coax	200.00 180.00 -	0.6000	0.6000	
Т7	14	(00000 POOT) - 57 1940000	200 00			
		Safety Line 3/8	180.00 - 200.00	0.6000	0.6000	
Т7	15	Strobe Cable	180.00 - 200.00	0.6000	0.6000	
T7	17	Feedline Ladder (Af)	180.00 - 200.00	0.6000	0.6000	
T7	18	Feedline Ladder (Af)	180.00 -	0.6000	0.6000	
Т7	19	Feedline Ladder (Af)	200 00 180 00 -	0.6000	0 6000	
Т8	1	1 625" coax	200.00 160.00 -	0 6000	0.6000	
Т8	2	1.5" Hybrid	180.00 160.00 -	0.6000	0.6000	
Т8	4	1 625" coax	180.00 160.00 -	0.6000	0.6000	
			180.00	027-200000		
Т8	5	1.5" Hybrid	160.00 - 180.00	0.6000	0.6000	
Т8	7	1 625" coax	160.00 - 180.00	0 6000	0.6000	
Т8	8 1.5" Hybrid		160.00 - 180.00	0.6000	0.6000	
Т8	F8 10 1 625" coax		160 00 -	0.6000	0.6000	
Т8	12	1 625" coax	180.00 160.00 -	0.6000	0.6000	
Т8	14	Safety Line 3/8	180.00 160.00 -	0.6000	0.6000	

Job		Page
AT	S #8642 - Chandler Road (Site# KYLEX2051)	15 of 38
Project	2051 007/00 000050	Date
	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

K _a Ice	K _a No Ice	Feed Line Segment Elev.	Description	Feed Line Record No.	Tower Section
	W. 1997	180.00	1200 - 21 - 22000		TO
0.6000	0.6000	160 00 - 180 00	Strobe Cable	15	Т8
0.6000	0.6000	160.00 -	Feedline Ladder (Af)	1.7	Т8
	22.22	180.00	F 11 1 11 110	10	Т8
0.6000	0.6000	180.00	Feedline Ladder (Af)	18	1.0
0.6000	0.6000	160.00 -	Feedline Ladder (Af)	19	Т8
0.6000	0.6000	180.00	1 625" coax	1	Т9
0.0000	0.0000	160.00	AT MARKAN ALBORES		
0.6000	0.6000	140.00 -	1.5" Hybrid	2	Т9
0.6000	0.6000	160 00 140 00 -	1 625" coax	4	Т9
	5 VEV2	160.00		-	Т9
0.6000	0.6000	140.00 - 160.00	1.5" Hybrid	5	1.9
0.6000	0.6000	140.00 -	1.625" coax	7	Т9
0.6000	0.6000	160,00 140.00 -	1.5" Hybrid	8	Т9
	17.0000	160.00			0.71
0 6000	0.6000	140 00 - 160 00	1 625" coax	10	Т9
0 6000	0.6000	140.00 -	1.625" coax	12	Т9
		160.00	C-C 1 - 2/0	14	Т9
0.6000	0.6000	140.00 - 160.00	Safety Line 3/8	14	1.5
0.6000	0.6000	140.00 -	Strobe Cable	15	Т9
0.6000	0.6000	160.00 140.00 -	Feedline Ladder (Af)	17	Т9
		160.00			TVA
0.6000	0.6000	140.00 -	Feedline Ladder (Af)	18	Т9
0 6000	0.6000	140 00 -	Feedline Ladder (Af)	19	Т9
0.6000	0.6000	160.00	1 625" coax	1	T10
0.0000	0.0000	140.00			1346.0
0.6000	0.6000	120 00 -	1.5" Hybrid	2	T10
0 6000	0.6000	120.00 -	1.625" coax	4	T10
0.4000	0.6000	140.00 120.00 -	1.5" Hybrid	5	T10
0.6000	0.6000	140.00			2.40.70
0.6000	0.6000	120 00 -	1.625" coax	7	T10
0.6000	0.6000	140.00	1.5" Hybrid	8	T10
	V2330900	140.00		10	T10
0.6000	0.6000	120.00 -	1.625" coax	10	110
0.6000	0.6000	120.00 -	1.625" coax	12	T10
0.6000	0.6000	140.00	Safety Line 3/8	14	T10
		140.00			
0.6000	0.6000	120.00 -	Strobe Cable	15	T10
0.6000	0.6000	120.00 -	Feedline Ladder (Af)	17	T10
0 6000	0.6000	140 00 120 00 -	Feedline Ladder (Af)	18	T10
0.6000	0.6000	140.00			103000
0 6000	0.6000	120.00 -	Feedline Ladder (Af)	19	T10
0.6000	0.6000	140.00	1 625" coax	1	TII

Job AT:	S #8642 - Chandler Road (Site# KYLEX2051)	Page 16 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev	K _a No Ice	K _a Ice
			120.00		
T11	2	1 5" Hybrid		0.6000	0.600
T11	4	1 625" coax		0.6000	0.600
T11	5	1 5" Hybrid	100 00 -	0.6000	0.600
T11	7.	1 625" coax	0.0000000000000000000000000000000000000	0.6000	0.600
T11	8	1 5" Hybrid	120 00 100 00 -	0.6000	0.6000
T11	10	1.625" coax	120 00 100 00 -	0.6000	0.600
T11	12	1.625" coax	120.00 100.00 -	0 6000	0.6000
T11	14	Safety Line 3/8	120.00 100.00 -	0 6000	0.6000
TII	15	Strobe Cable		0 6000	0.6000
T11	17	Feedline Ladder (Af)	120.00 100.00 -	0.6000	0.6000
T11	18	Feedline Ladder (Af)	120.00 100.00 -	0,6000	0.6000
T11	19	Feedline Ladder (Af)	120.00 100.00 -	0 6000	0.6000
			120.00	20000	
T12	1		80 00 - 100 00	0.6000	0.600
T12	2 4	1.5" Hybrid		0.6000	0.600
T12	4	1 625" coax		0.6000	0.600
T12	5	1.5" Hybrid		0.6000	0.600
T12	7	1.625" coax		0.6000	0.600
T12 T12	8	1.5" Hybrid		0 6000	0.600
T12	10 12	1.625" coax		0.6000	0.600
T12	14	1 625" coax Safety Line 3/8		0.6000	0.600
T12	15	Strobe Cable		0.6000	0.600
T12	17	Feedline Ladder (Af)		0.6000	0.600
T12	18	Feedline Ladder (Af)		0.6000	0.600
T12	19	Feedline Ladder (Af)		0.6000	0.600
T13	1	1 625" coax	60.00 - 80.00	0.6000	0.6000
T13	2	1.5" Hybrid	60 00 - 80 00	0.6000	0.6000
T13	4	1 625" coax	60 00 - 80 00	0 6000	0.600
T13	5	1.5" Hybrid	60 00 - 80 00	0.6000	0.600
T13	7	1.625" coax	60 00 - 80 00	0 6000	0.600
T13	8	1 5" Hybrid	60.00 - 80.00	0.6000	0.6000
T13	10	1.625" coax	60 00 - 80 00	0.6000	0.6000
T13	12	1.625" coax	60.00 - 80.00	0.6000	0.6000
T13	14	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T13	15	Strobe Cable	60.00 - 80.00	0.6000	0.6000
T13	17	Feedline Ladder (Af)	60 00 - 80 00	0.6000	0.6000
T13	18	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.600
T13	19	Feedline Ladder (Af)	60.00 - 80.00	0,6000	0.6000
T14	1	1.625" coax	40.00 - 60.00	0.6000	0.6000
T14	2	1.5" Hybrid	40,00 - 60.00	0.6000	0.6000
T14	4	1 625" coax	40.00 - 60.00	0.6000	0 6000
T14	5	1.5" Hybrid	40 00 - 60 00	0.6000	0.6000
T14	7	1 625" coax	40.00 - 60.00	0.6000	0.600
T14	8	1.5" Hybrid	40.00 - 60.00	0 6000	0.600
T14	10	1.625" coax	40 00 - 60 00	0.6000	0.6000
T14	12	1.625" coax	40 00 - 60 00	0,6000	0.6000
T14	14	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T14	15	Strobe Cable Feedline Ladder (Af)	40.00 - 60.00 40.00 - 60.00	0.6000	0.6000

Job		Page
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	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client	20 - 10 - 10	Designed by
	Harmoni(Uniti) Towers	JLandon

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K _a No Ice	K., Ice
T14	18	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T14	19	Feedline Ladder (Af)	40 00 - 60 00	0.6000	0.6000
T15	1	1 625" coax	20.00 - 40.00	0.6000	0.6000
T15	2	1.5" Hybrid	20 00 - 40 00	0.6000	0.6000
T15	4	1 625" coax	20.00 - 40.00	0.6000	0.6000
T15	5	1.5" Hybrid	20 00 - 40 00	0.6000	0.6000
T15	7	1.625" coax	20.00 - 40.00	0.6000	0.6000
T15	8	1.5" Hybrid	20 00 - 40 00	0.6000	0.6000
T15	10	1.625" coax	20 00 - 40 00	0.6000	0.6000
T15	12	1 625" coax	20.00 - 40.00	0.6000	0.6000
T15	14	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T15	15	Strobe Cable	20.00 - 40.00	0.6000	0.6000
T15	17	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T15	18	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T15	19	Feedline Ladder (Af)	20.00 - 40.00	0 6000	0.6000
T16	1	1 625" coax	10.00 - 20.00	0.6000	0.6000
T16	2	1 5" Hybrid	10.00 - 20.00	0.6000	0.6000
T16	4	1 625" coax	10 00 - 20 00	0.6000	0.6000
T16	.5	1.5" Hybrid	10.00 - 20.00	0 6000	0.6000
T16	7	1.625" coax	10.00 - 20.00	0.6000	0.6000
T16	8	1.5" Hybrid	10.00 - 20.00	0.6000	0.6000
T16	10	1 625" coax	10.00 - 20.00	0.6000	0.6000
T16	12	1 625" coax	10 00 - 20 00	0.6000	0.6000
T16	14	Safety Line 3/8	10.00 - 20.00	0.6000	0.6000
T16	15	Strobe Cable	10.00 - 20.00	0.6000	0.6000
T16	17	Feedline Ladder (Af)	10.00 - 20.00	0 6000	0.6000
T16	18	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T16	19	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000

Description	Face or Leg	Offset Type	Offsets: Horz Lateral Vert	Azimuth Adjustment	Placement		C ₄ A ₄ Front	C ₄ A ₄ Side	Weigh
			fi fi fi	0	ft		ff	ft²	K
Lightning Rod I"x10"	C	From Leg	0.000	0.000	305 000	No Ice	1.000	1.000	0.040
			0.000			1/2" Ice	2.017	2.017	0.049
			5.000			I" Ice	3.050	3 050	0.065
	-		1000000			2" Ice	5.148	5.148	0.116
Top Beacon	В	From Leg	0.000	0.000	305.000	No Ice	2.700	2.700	0.050
			0.000			1/2" Ice	3.100	3.100	0.070
			1.000			1" Ice	3.500	3 500	0.090
**						2" Ice	4.300	4.300	0.130
Sector1(CaAa=13333 33	A	From Leg	4.000	0.000	300 000	No Ice	92 600	62 040	0.700
Sq in)No Ice			0.000			1/2" Ice	115.750	77.550	1.400
(Carrier 1)			0.000			1" Ice	138.900	93.060	2.100
						2" Ice	185.200	124.080	3.500
Sector2(CaAa=13333 33	В	From Leg	4.000	0.000	300.000	No Ice	92.600	62.040	0.700
Sq in)No Ice			0.000			1/2" Ice	115 750	77.550	1 400
(Carrier 1)			0.000			I" Ice	138,900	93.060	2.100
						2" Ice	185.200	124.080	3 500

Job A	ΓS #8642 - Chandler Road (Site# KYLEX2051)	Page 18 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Description	Face or Leg	Offset Type	Offsets: Horz Lateral	Azimuth Adjustment	Placement		C ₄ A ₄ Front	C ₄ A _{.4} Side	Weigh
			Vert	D			62	62	v
			ft		JI		fř	Jr.	K
			ft						
Sector3(CaAa=13333.33	C	From Leg	4 000	0.000	300.000	No Ice	92 600	62.040	0.700
Sq.in)No Ice		Anthers are Light-	0.000			1/2" Ice	115.750	77.550	1.400
(Carrier 1)			0.000			1" Ice	138.900	93.060	2.100
**						2" Ice	185 200	124.080	3.500
SectorI(CaAa=10000	A	From Leg	4.000	0.000	288 000	No Ice	69 440	46.525	0.700
Sq in)No Ice	25	riom Leg	0.000	0.000	288.000	1/2" Ice	86.800	58 156	1.400
(Carrier 2)			0.000			1" Ice	104 160	69.787	2 100
(Carrier 2)			0.000			2" Ice	138 880	93.050	3 500
Sector2(CaAa=10000	В	From Leg	4 000	0.000	288 000	No Ice	69 440	46 525	0.700
Sq in)No Ice	U	Trom Leg	0.000	0.000	200.000	1/2" Ice	86.800	58.156	1.400
(Carrier 2)			0.000			l" Ice	104.160	69.787	2.100
(carrer 2)			0.000			2" Ice	138 880	93.050	3 500
Sector3(CaAa=10000	C	From Leg	4.000	0.000	288.000	No Ice	69.440	46 525	0.700
Sq.in)No Ice			0.000	0.000	200.000	1/2" Ice	86 800	58 156	1.400
(Carrier 2)			0.000			1" Ice	104 160	69.787	2 100
						2" Ice	138.880	93 050	3.500
**									
Sector1(CaAa=10000	A	From Leg	4.000	0.000	276.000	No Ice	69.440	46.525	0.700
Sq in)No Ice			0.000			1/2" Ice	86,800	58 156	1.400
(Carrier 3)			0.000			1" Ice	104 160	69.787	2.100
Sector2(CaAa=10000	В	F	4.000	0.000	277 000	2" Ice	138 880	93.050	3.500
Sq in)No Ice	ь	From Leg	4.000 0.000	0.000	276.000	No Ice	69.440	46.525	0.700
(Carrier 3)			0.000			1/2" Ice 1" Ice	86.800 104.160	58.156 69.787	1 400 2 100
(Carrier 3)			0.000			2" Ice	138.880	93.050	3.500
Sector3(CaAa=10000	C	From Leg	4 000	0.000	276.000	No Ice	69.440	46.525	0.700
Sq m)No Ice		Trom Leg	0.000	0.000	270.000	1/2" Ice	86.800	58 156	1 400
(Carrier 3)			0.000			I" Ice	104.160	69.787	2 100
			27.414.30			2" Ice	138.880	93.050	3 500
***	1.6								
4 1/2" OD Dish Mount	C	From Leg	0.500	0.000	264.000	No Ice	1.615	1.615	0.057
(Carrier 4)			0.000			1/2" Ice I" Ice	2.207	2.207	0.074
			0.000			2" Ice	2.543	2.543	0.094
4 1/2" OD Dish Mount	В	From Leg	0.500	0.000	264.000	No Ice	3 241 1.615	3.241 1.615	0.148
(Carrier 4)	ь	riom Leg	0.000	0.000	204.000	1/2" Ice	2 207	2 207	0.037
(Currer)			0.000			I" Ice	2.543	2 543	0 094
			0.000			2" Ice	3.241	3.241	0.148
**									
4 1/2" OD Dish Mount	C	From Leg	0.500	0.000	252 000	No Ice	1.615	1.615	0.057
(Carrier 5)			0.000			1/2" Ice	2.207	2.207	0.074
			0.000			I" Ice	2.543	2.543	0.094
LIMEOD D. L.	-		0.500		111111	2" Ice	3 241	3.241	0.148
4 1/2" OD Dish Mount	В	From Leg	0.500	0.000	252.000	No Ice	1.615	1.615	0.057
(Carrier 5)			0.000			1/2" Ice	2.207	2 207	0.074
			0.000			1" Ice	2.543	2.543	0.094
						2" Ice	3.241	3.241	0.148

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

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Д	ATS #8642 - Chandler Road (Site# KYLEX2051)	19 of 38
Project		Date
	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client		Designed by
	Harmoni(Uniti) Towers	JLandon

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment	3 dB Beam Width	Elevation	Outside Diameter		Aperture Area	Weigh K
6' MW Dish	C	Paraboloid w/o	From	1.000	0.000		264.000	ft 6.000	No Ice	28 270	0 140
(Carrier 4)		Radome	Leg	0.000	0.000		204.000	0.000	1/2" Ice	29.050	0.140
(comment)		reaconic	5	0.000					1" Ice	29.830	0 440
				0.000					2" Ice	31.390	0.740
6' MW Dish	В	Paraboloid w/o	From	1.000	0.000		264 000	6.000	No Ice	28.270	0.140
(Carrier 4)		Radome	Leg	0.000			20.000	0,000	1/2" Ice	29.050	0.290
			W	0.000					1" Ice	29.830	0.440
									2" Ice	31 390	0.740
**										7.77	200
6' MW Dish	C	Paraboloid w/o	From	1 000	0.000		252.000	6.000	No Ice	28.270	0.140
(Carrier 5)		Radome	Leg	0.000					1/2" Ice	29.050	0.290
				0.000					I" Ice	29.830	0.440
									2" Ice	31.390	0.740
6' MW Dish	В	Paraboloid w/o	From	1.000	0.000		252.000	6.000	No Ice	28.270	0.140
(Carrier 5)		Radome	Leg	0.000					1/2" Ice	29.050	0.290
				0.000					I" Ice	29.830	0.440
									2" Ice	31.390	0.740

Load Combinations

Comb. No.	Description	
1	Dead Only	
2	1.2 Dead+1.0 Wind 0 deg - No Ice	
3	0.9 Dead+1.0 Wind 0 deg - No Ice	
4	1 2 Dead+1 0 Wind 30 deg - No Ice	
5	0.9 Dead+1.0 Wind 30 deg - No Ice	
6	1.2 Dead+1.0 Wind 60 deg - No Ice	
7	0.9 Dead+1.0 Wind 60 deg - No Ice	
8	1.2 Dead+1.0 Wind 90 deg - No Ice	
9	0 9 Dead+1.0 Wind 90 deg - No Ice	
10	1.2 Dead+1.0 Wind 120 deg - No Ice	
11	0.9 Dead+1.0 Wind 120 deg - No Ice	
12	1.2 Dead+1.0 Wind 150 deg - No Ice	
13	0.9 Dead+1 0 Wind 150 deg - No Ice	
14	1.2 Dead+1 0 Wind 180 deg - No Ice	
15	0.9 Dead+1.0 Wind 180 deg - No Ice	
16	1 2 Dead+1 0 Wind 210 deg - No Ice	
17	0 9 Dead+1 0 Wind 210 deg - No Ice	
18	1.2 Dead+1.0 Wind 240 deg - No Ice	
19	0.9 Dead+1.0 Wind 240 deg - No Ice	
20	1 2 Dead+1 0 Wind 270 deg - No Ice	
21	0.9 Dead+1.0 Wind 270 deg - No Ice	
22	1 2 Dead+1 0 Wind 300 deg - No Ice	
23	0.9 Dead+1.0 Wind 300 deg - No Ice	
24	1 2 Dead+1 0 Wind 330 deg - No Ice	
25	0.9 Dead+1.0 Wind 330 deg - No Ice	
26	1 2 Dead+1 0 Ice+1 0 Temp	
27	1 2 Dead+1 0 Wind 0 deg+1 0 Ice+1 0 Temp	
28	1 2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	
29	1.2 Dead+1 0 Wind 60 deg+1 0 Ice+1 0 Temp	
30	1 2 Dead+1 0 Wind 90 deg+1 0 Ice+1 0 Temp	
31	1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	
32	1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	
33	1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	

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ATS	S #8642 - Chandler Road (Site# KYLEX2051)	20 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Comb. No.		Description
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	
3.8	1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	
39	Dead+Wind 0 deg - Service	
40	Dead+Wind 30 deg - Service	
41	Dead+Wind 60 deg - Service	
42	Dead+Wind 90 deg - Service	
43	Dead+Wind 120 deg - Service	
44	Dead+Wind 150 deg - Service	
45	Dead+Wind 180 deg - Service	
46	Dead+Wind 210 deg - Service	
47	Dead+Wind 240 deg - Service	
48	Dead+Wind 270 deg - Service	
49	Dead+Wind 300 deg - Service	
50	Dead+Wind 330 deg - Service	

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment	Minor Axis Moment
TI	305 - 295	Leg	Max Tension	15	7.910		-0 005
3.5	303 - 293	Leg	Max Compression	18	-9.540		0.001
			Max. Mx	2	-9.530		0.006
			Max. My	4	-1 074	Moment kip-ft 1.523 -0.058 -1.713 -0.029 -0.057 0.006 0.000 0.000 0.000 0.012 0.000 0.000 0.000 0.000 0.000 0.000 0.000 1.429 0.933 -1.792 -0.061 0.933 -0.058 0.000	0.789
			Max. Vy	2	-3.311		-0 003
			Max Vx	4	-2.235		-0 146
		Diagonal	Max Tension	20	3.493		0.000
		Diagonal	Max Compression	8	-3 387		0.000
			Max. Mx	2	-0 342		-0.002
			Max. My	8	-3.373		-0.002
			Max Vy	31	0.019		0.002
			Max. Vx	8	0.007		0.000
		Top Girt	Max Tension	14	1 383		0.000
		Top Girt	Max Compression	2	-1 519		0.000
			Max. Mx	35	-0.194		0.000
			Max. My	38	0.040		0.001
			Max Vy	35	0.026		0.000
			Max Vx	38	-0.001		0.000
T2	295 - 280	Leg	Max Tension	15	34.145		-0.013
12	273 - 200	Leg	Max Compression		-38 087		-0.013
			Max Mx	2 2	-38.086		0.018
			Max My	16	-1 188		
			Max Vy	2	-5 446		-1 153 -0.017
			Max Vx	4	2.446		-0.727
		Diagonal	Max Tension	12	5.225		0.000
		Diagonal	Max Compression	20	-4.865		0.000
			Max Mx	7	0.782		0.001
			Max My	20	-4.852		0.059
			Max. Vy	27	-0.025		0.002
			Max. Vx	20	-0.016		0.002
Т3	280 - 260	Leg	Max Tension	15	82.130		-0.017
13	200 - 200	Leg	Max Compression	13	-90.382		-0.017
			Max. Mx	2 2	-38 105	3.624	-0.011
			Max My	4	-2 541	-0.091	-0.051
				2		1 598	-0.011
			Max. Vy	4	-9.312		
			Max. Vx	4.	3.643	0.038	-0.974

Job ATS	S #8642 - Chandler Road (Site# KYLEX2051)	Page 21 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment	Minor Ax Moment
		Diagonal	Max Tension	20	7.721	0.000	0.000
		Diagonal	Max Compression	20	-6.851	0.000	
			Max Mx	8	2.301		0.000
			Max. My	20	-6.822	0.034 -0.008	-0 001
				34			0.031
			Max Vy		0.029	0.027	-0.002
T4	260 - 240	Low	Max, Vx	20	-0.007	0.000	0.000
1.4	200 - 240	Leg	Max Tension	7	131.257	3 294	0.177
			Max Compression	2	-143.944	0.881	0.001
			Max Mx	2	-90 407	6 195	-0.045
			Max. My	4	-5.083	0.218	-2 796
			Max. Vy	2	-10.222	0.881	0.001
			Max Vx	4	4.336	0.023	-0 487
		Diagonal	Max Tension	20	8.649	0.000	0.000
			Max Compression	20	-8 403	0.000	0.000
			Max. Mx	34	0.381	0.039	-0.004
			Max My	8	-8.117	-0 007	-0.016
			Max Vy	32	0.038	0.039	0.004
			Max Vx	8	0.003	0.000	0.000
T5	240 - 220	Leg	Max Tension	7	176.681	3.586	0.162
			Max Compression	2	-193.007	0.873	0.004
			Max Mx	2	-143.962	5.967	-0.009
			Max. My	24	-9.692	0.283	2 662
			Max Vy	18	-10.950	0.873	0.034
			Max Vx	24	-4.500	0.026	0.414
		Diagonal	Max Tension	8	8.758	0.000	0.000
			Max Compression	8	-9.054	0.000	0.000
			Max Mx	36	1 387	0.060	-0.004
			Max. My	20	-8 992	-0.010	0.020
			Max Vy	32	0.051	0.059	0.006
			Max_Vx	20	-0.004	0.000	0.000
T6	220 - 200	Leg	Max Tension	7	218.126	3 872	0.138
200	777 777	1.08	Max Compression	2	-238 480	0.957	0.007
			Max. Mx	18	-192.545	6 325	0.314
			Max. My	24	-13.915	0.240	2.667
			Max. Vy	18	-11.851	0.961	0.040
			Max Vx	24	-4.723	0.027	0.517
		Diagonal	Max Tension	8	9.021	0.027	0.000
		Diagonal	Max Compression	8	-9.155	0.000	
			Max Mx	32			0.000
				22	0.442	0.075	0.007
			Max. My		-7.881	0 010	0.016
			Max. Vy	32	0.058	0.075	0.007
T7	200 - 180	Leg	Max Vx	22 7	-0.003	0 000	0.000
1.1	200-100	Leg	Max Tension		257.282	4.357	0.128
			Max Compression	18	-282,480	0.943	0.030
			Max Mx	18	-238 296	6.862	0.273
			Max. My	24	-17,554	0.220	2.882
			Max. Vy	18	-13.003	0.943	0.030
		Barrer I.	Max. Vx	24	-5 053	0.023	0.467
		Diagonal	Max Tension	8	9617	0 000	0.000
			Max. Compression	8	-9.564	0.000	0.000
			Max. Mx	32	0.456	0.105	0.010
			Max. My	22	-8.309	0.014	0.018
			Max. Vy	32	0.074	0 105	0.010
			Max Vx	22	-0.003	0.000	0.000
Т8	180 - 160	Leg	Max Tension	7	295 273	5.403	0.128
			Max Compression	18	-326 139	0.206	0.011
			Max. Mx	18	-282.506	7.425	0.229
			Max. My	24	-20 950	0.206	2 997
			Max. Vy	18	-14.367	0.206	0.011
			Max. Vx	24	-5.446	0.006	0.198

Job ATS	S #8642 - Chandler Road (Site# KYLEX2051)	Page 22 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Section No.	Elevation ft	Component Type	Condition	Gov. Load	Axial	Major Axis Moment	Minor Axi Moment
				Comb.	K	kip-fi	kip-ft
			Max Compression	8	-10.145	0.000	0.000
			Max. Mx	32	0.483	0.127	0.012
			Max. My	22	-9.465	0.026	0.017
			Max. Vy	38	0.081	0.127	-0.012
			Max Vx	38	0.003	0.000	0.000
T9	160 - 140	Leg	Max Tension	7	332.255	5.049	0.095
			Max Compression	18	-369 164	1.280	0.041
			Max Mx	18	-326 163	7 389	0.185
			Max My	24	-24 155	0.176	2 925
			Max Vy	18	-15.763	1.280	0.041
			Max Vx	24	-5 893	0.029	0.757
		Diagonal	Max Tension	8	10.987	0.000	0.000
		Max Compression	8	-10.759	0.000	0.000	
			Max Mx	38	0.558	0.150	-0 014
			Max. My	22	-9.993	0.032	0.018
			Max Vy	38	0.088	0.150	-0.014
			Max Vx	38	0.003	0.000	0.000
T10	140 - 120	Leg	Max Tension	7	368 715	6.244	0.093
		. 1100 16	Max Compression	18	-412.608	0.059	0.045
			Max Mx	18	-369.194	9 131	0.194
			Max My	24	-27 154	0 192	3.707
			Max. Vy	18	-16.692	0.059	0.045
			Max. Vx	24	-6.821	-0.029	0.892
		Diagonal	Max Tension	10	12.014	0.000	0.000
		Componen	Max Compression	8	-11.786	0.000	0.000
			Max Mx	32	0.705	0.186	-0.017
			Max My	22	-11 100	0.059	0.025
			Max. Vy	36	0.103	0.185	0.023
			Max Vx	38	0.004	0.000	
T11	120 - 100	Leg	Max Tension	7			0.000
1.1.1	120 - 100	Leg			404 247	6.557	0.084
			Max Compression Max Mx	18	-455 257	0.287	0.042
				18	-455.230	-8.536	-0.090
			Max. My	24	-30.370	0.141	4.305
			Max. Vy	18	-17 633	0.287	0.042
		Diagonal	Max Vx	24	-6.982	-0.028	0.890
		Diagonal	Max Tension	9	13.302	0.000	0.000
			Max Compression	10	-13.813	0.000	0.000
			Max. Mx	36	1.609	0.289	0.000
			Max. My	31	-0.325	0.000	-0.007
			Max Vy	36	-0.107	0.000	0.000
			Max. Vx	31	0.003	0.000	0.000
		Horizontal	Max Tension	18	7.700	0.000	0.000
			Max Compression	18	-7 700	-0.059	0.000
			Max Mx	33	-1 486	-0.188	0.003
			Max, My	6	3.921	-0.049	0.005
			Max Vy	33	0.099	-0.188	0.003
			Max Vx	35	-0.002	-0.188	0.004
		Inner Bracing	Max Tension	25	0.001	0.000	0.000
			Max Compression	37	-0 011	0.000	0.000
			Max. Mx	26	-0.010	-0.127	0.000
			Max. My	18	-0.004	0.000	-0.000
			Max Vy	26	0.053	0.000	0.000
			Max_Vx	18	0.000	0.000	0.000
T12	100 - 80	Leg	Max Tension	7	438.537	6.983	0.073
		273	Max Compression	18	-497.054	0 293	0.051
			Max. Mx	18	-455.287	9.116	0.171
			Max. My	24	-33.519	0.108	4 385
			Max Vy	18	-18 468	0.293	0.051
			Max. Vx	24	-7.188	-0.034	1 174
		Diagonal	Max Tension	9	13.636	0.000	0.000

Job		Page
AT:	S #8642 - Chandler Road (Site# KYLEX2051)	23 of 38
Project		Date
	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment	Minor Axi Moment
			May Mu			kip-fi	kip-ft
			Max Mx	36	1,614	0.326	0.000
			Max My	31	-0.326	0.000	-0.008
			Max Vy	36	-0.113	0.000	0.000
		Tr	Max. Vx	31	0.003	0.000	0.000
		Horizontal	Max Tension	18	8.425	0.000	0.000
			Max Compression	18	-8 425	-0.078	0.001
			Max. Mx	31	0.493	-0.236	0.005
			Max My	6	4 284	-0.068	0.006
			Max. Vy	31	-0.116	-0.236	0.005
		Land Warrange	Max. Vx	35	-0.003	-0.236	0.005
		Inner Bracing	Max Tension	23	0.000	0.000	0.000
			Max Compression	37	-0.012	0 000	0.000
			Max Mx	26	-0.010	-0.145	0.000
			Max My	18	-0.004	0.000	-0 000
			Max, Vy	26	0.056	0.000	0.000
TOLO	00. 70	100 0456	Max. Vx	18	0.000	0.000	0 000
T13	80 - 60	Leg	Max Tension	7	471.885	8.257	0.077
			Max. Compression	18	-538 673	-0.793	0.036
			Max. Mx	18	-538.639	-10 624	-0.065
			Max. My	24	-36.767	0 108	4.771
			Max Vy	18	-19 647	-0 793	0.036
			Max. Vx	24	-7 453	-0.060	0.740
		Diagonal	Max Tension	9	14.373	0.000	0.000
			Max Compression	11	-14.515	0.000	0.000
			Max Mx	36	1.726	0.423	0.000
			Max. My	31	-0.272	0.000	-0.010
			Max Vy	36	-0.139	0.000	0.000
			Max. Vx	31	0.003	0.000	0.000
		Horizontal	Max Tension	18	9.143	0.000	0.000
			Max. Compression	18	-9 143	-0.112	0.000
			Max Mx	31	0.569	-0.313	0.007
			Max, My	6	4.645	-0.100	0.009
			Max Vy	31	-0.145	-0.313	0.007
			Max Vx	35	-0.003	-0.313	0.007
		Inner Bracing	Max Tension	1	0.000	D.000	0.000
			Max Compression	37	-0.014	0.000	0.000
			Max Mx	26	-0.012	-0.162	0.000
			Max. My	18	-0.004	0.000	-0 000
			Max. Vy	26	0.059	0.000	0.000
			Max Vx	18	0.000	0.000	0.000
T14	60 - 40	Leg	Max Tension	7	504 385	7 943	0.064
			Max Compression	18	-579 624	0.109	0.039
			Max. Mx	18	-579 590	-10.319	-0.050
			Max. My	24	-40 338	0.112	4.470
			Max Vy	18	-20.839	0.109	0.039
			Max Vx	24	-7.665	-0.044	1 020
		Diagonal	Max Tension	9	14.737	0.000	0.000
		D'idgoliai	Max Compression	8	-14.894	0.000	0.000
			Max Mx	36	1.876	0 465	0.000
			Max. My	31	-0.122	0.000	-0.011
			Max Vy	36	-0.144	0.000	0.000
			Max Vx	31		0.000	
		Horizontal	Max Tension		0.003		0.000
		Horizoniai		18	9 854	0.000	0.000
			Max Compression	18	-9.854 0.721	-0.128	0.001
			Max. Mx	27	0.721	-0.346	0.007
			Max My	6	5.004	-0.115	800.0
			Max. Vy	31	-0.151	-0.344	0.007
		Y C	Max Vx	35	-0.003	-0 344	0.007
		Inner Bracing	Max Tension	1	0.000	0.000	0.000
			Max Compression	37	-0.014	0.000	0.000
			Max. Mx	26	-0.013	-0 179	0.000

Job AT:	S #8642 - Chandler Road (Site# KYLEX2051)	Page 24 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JL andon

Section No.	Elevation ft	Component Type	Condition	Gov. Load	Axial	Major Axis Moment	Minor Axi: Moment
				Comb.		kip-ft	kip-ft
			Max My	18	-0.005	0.000	-0.000
			Max Vy	26	0.060	0.000	0.000
			Max Vx	18	-0.000	0.000	0.000
T15	40 - 20	Leg	Max Tension	7	536 150	8.992	0.065
			Max Compression	18	-620.293	-0.774	0.022
			Max Mx	18	-620.256	-11.743	-0.055
			Max. My	24	-43.910	0.150	4.856
			Max Vy	18	K Moment kip-ft -0.005 0.000 0.060 0.000 -0.000 0.000 536.150 8.992 -620.293 -0.774 -620.256 -11.743	0.022	
	Diagonal Max Vx Max Tension Max Mx Max My Max Vy Max Vx Horizontal Horizontal Max Tension Max Tension Max Tension Max Compression Max Mx Max My Max Vy Max Vy Max Mx Max My Max Vy Max Ny Max Vx Inner Bracing Max Compression Max Mx Max My Max Vx Max Ny Max Vx Max Vx	24	-7 755	-0.050	0.548		
		Diagonal	Max Tension	9	15.297	0.000	0.000
			Max Compression	8	-15.580	0.000	0.000
			Max Mx	36	2 260	0.501	0.000
			Max. My	31	0.258	0.000	-0.012
			Max Vy	36	-0.148	0.000	0.000
			Max Vx	31	0.003	0.000	0.000
		Horizontal	Max Tension	18	10.557	0.000	0.000
			Max Compression	18	-10.557	-0.145	0.001
			Max Mx	27	0.811	-0.383	0.008
			Max. My	29			0.009
			ACRES 100 CV 500 CV	31			0.008
			Max Vx	29	0.003	-0.383	0.009
		Inner Bracing	Max Tension	1			0.000
			Max Compression	37			0.000
			Max. Mx	31			0.000
			Max. My	18			-0.000
			Max Vy	31			0.000
			Max Vx	18			0.000
T16	20 - 0	Leg	Max Tension	7	566.783		0.063
			Max. Compression	18			0.000
			Max Mx	18			-0.066
			Max My	24			4.430
			Max. Vy	18			0.000
			Max Vx	24			4 430
		Diagonal	Max Tension	9			0.000
		OKS DE CONTROL	Max. Compression	8			0.000
			Max Mx	31			0.000
			Max My	31			-0.012
			Max Vy	31			0.000
			Max. Vx	31			0.000
		Horizontal	Max Tension	18			0 000
			Max Compression	18			0.002
			Max Mx	35			0.002
			Max, My	29			0.010
			Max Vy	35			0.009
			Max. Vx	29			0.009
		Inner Bracing	Max Tension	1			0.000
			Max Compression	29			0.000
			Max Mx	35	-0.013	-0.193	0.000
			Max My	35	-0.012	0.000	-0.000
			Max. Vy	35	0.058	0.000	0.000
			Max. Vx	35	0.000	0.000	0.000

Location		Maximum Reactions				
	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K	

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

Job A7	S #8642 - Chandler Road (Site# KYLEX2051)	Page 25 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Location	Condition	Gov. Load	Vertical K	Horizontal, X K	Horizontal, Z K
		Comb.			
Leg C	Max. Vert	18	658 093	42 155	-24.217
	Max H,	18	658.093	42 155	-24.217
	Max. H _z	7	-565.326	-38 039	21 792
	Min. Vert	7	-565.326	-38.039	21 792
	Min H,	7	-565 326	-38 039	21.792
	Min H ₂	18	658 093	42.155	-24.217
Leg B	Max. Vert	10	654.894	-42.322	-23.637
	Max H _x	23	-563 034	38 252	21 142
	Max H ₂	23	-563.034	38.252	21.142
	Min. Vert	23	-563.034	38 252	21.142
	Min. H _s	10	654.894	-42 322	-23.637
	Min Hz	10	654.894	-42.322	-23 637
Leg A	Max. Vert	2	652.539	-0.227	48 096
	Max. H _x	21	40.417	6.290	2.063
	Max H ₂	2	652.539	-0.227	48.096
	Min. Vert	15	-543 471	0.253	-42 263
	Min H _s	9	40.417	-6.295	2 063
	Min H,	15	-543 471	0.253	-42 263

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear _e Sh	Shear ₂	Overturning Moment, Mz	Overturning Moment, M _z kip-ft	Torque kip-fi
		K	K	kip-ft		
Dead Only	86 402	-0 000	0.000	6.734	5.754	-0.000
1.2 Dead+1.0 Wind 0 deg - No	103 682	0.000	-80 510	-14449.998	6.993	-11.268
Ice						
0.9 Dead+1 0 Wind 0 deg - No	77 761	0.000	-80.512	-14420.571	5.245	-11 252
Ice						
1 2 Dead+1.0 Wind 30 deg - No	103.682	39 423	-65 416	-11775 207	-7227 670	15 899
Ice						
0.9 Dead+1.0 Wind 30 deg - No	77.761	39 424	-65 418	-11751 558	-7213.518	15.894
Ice						
1.2 Dead+1.0 Wind 60 deg - No	103.682	66 030	-37.783	-6856 891	-12036.955	5.977
Ice						
0.9 Dead+1.0 Wind 60 deg - No	77.761	66.031	-37.784	-6843.935	-12012.307	5 955
Ice						
1 2 Dead+1.0 Wind 90 deg - No	103 682	77.324	-1.327	-337 747	-13995.040	1 677
Ice						
0 9 Dead+1 0 Wind 90 deg - No	77 761	77 326	-1 328	-338 970	-13966 208	1.642
Ice						
1.2 Dead+1 0 Wind 120 deg -	103.682	71.521	38.644	6744.242	-12855 206	31.006
No Ice						
0.9 Dead+1.0 Wind 120 deg -	77.761	71.523	38 645	6727 721	-12828 967	30.968
No Ice						
1.2 Dead+1.0 Wind 150 deg -	103.682	37 717	65 200	11730.791	-6780 091	43.270
No Ice						
0.9 Dead+1.0 Wind 150 deg -	77.761	37.718	65 201	11703 185	-6767 029	43 242
No Ice						
1.2 Dead+1.0 Wind 180 deg -	103.682	0.000	73.513	13345.181	6.988	11.266
No Ice						
0.9 Dead+1.0 Wind 180 deg -	77 761	0.000	73 515	13313.910	5 240	11.252
No Ice						
1.2 Dead+1.0 Wind 210 deg -	103 682	-37 829	65 393	11785.671	6825 817	-10.300
No Ice						
0.9 Dead+1.0 Wind 210 deg -	77.761	-37 830	65 394	11757.920	6809 178	-10.297
No Ice						

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

Job AT	S #8642 - Chandler Road (Site# KYLEX2051)	Page 26 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Load Combination	Vertical	$Shear_x$	Shear:	Overturning Moment, M _s	Overturning Moment, M ₌	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 240 deg -	103.682	-71 712	38 754	6775 513	12923 521	-1 53
No Ice						
0.9 Dead+1 0 Wind 240 deg -	77.761	-71 714	38 755	6758.909	12893.645	-1 50
No Ice						
1.2 Dead+1 0 Wind 270 deg -	103.682	-77.324	-1 327	-337 749	14008 946	-1.68
No Ice						
0.9 Dead+1.0 Wind 270 deg -	77.761	-77 326	-1 328	-338 971	13976.619	-1.64
No Ice						
1.2 Dead+1.0 Wind 300 deg +	103.682	-65.839	-37 673	+6825.403	11996 566	-35.45
No Ice						
0.9 Dead+1.0 Wind 300 deg -	77.761	-65.840	-37.674	-6812.528	11968.566	-35.42
No Ice						
1 2 Dead+1 () Wind 33() deg -	103,682	-39.311	-65.223	-11720 206	7209.964	-48.86
No Ice						
0.9 Dead+1.0 Wind 330 deg -	77.761	-39 312	-65.225	-11696.701	7192.400	-48.83
No Ice						
1.2 Dead+1.0 Ice+1.0 Temp	273.435	0.001	-0.001	51 881	66.111	-0.00
1.2 Dead+1 0 Wind 0 deg+1 0	273 435	0.000	-10 944	-2016.374	66.703	-3 50
ce+1.0 Temp						
1.2 Dead+1.0 Wind 30 deg+1.0	273.435	5.438	-9 166	-1682.891	-974.144	-0.44
ce+1 0 Temp				1.0000000000000000000000000000000000000		-31,53
2 Dead+1 0 Wind 60 deg+1 0	273.435	9.305	-5.343	-962 534	-1705.204	0.14
ce+1 0 Temp			44.5	07505		7.00
2 Dead+1.0 Wind 90 deg+1.0	273 435	10.862	-0 117	21.282	-1991 198	1.69
ce+1 0 Temp		0.500.000				2.00.2
2 Dead+1 0 Wind 120	273.435	9.690	5 361	1047.167	-1764.012	5.07
teg+1.0 Ice+1.0 Temp			E SEA	0.777.0755.00	10.16.419.16	5000
2 Dead+1 0 Wind 150	273 435	5 288	9 148	1782 815	-934.058	6.17
deg+1 0 Ice+1 0 Temp				113003010	33.020	
2 Dead+1.0 Wind 180	273.435	0.000	10.444	2037 997	66.693	3.50
deg+1 0 Ice+1 0 Temp					7464.14.045	F. (4.19)
2 Dead+1 0 Wind 210	273.435	-5 297	9.164	1787.317	1070.051	0.93
leg+1.0 Ice+1.0 Temp						7 7
2 Dead+1.0 Wind 240	273.435	-9 706	5 370	1049 875	1902 116	0.24
leg+1.0 Ice+1.0 Temp		3.001.59	14.470	1012.072	1702.110	0.24
2 Dead+1.0 Wind 270	273 435	-10 862	-0.117	21 275	2124 592	-1.69
leg+1.0 Ice+1 0 Temp	7/20175	.0.002		2,12,2	2127.572	-1.07
2 Dead+1.0 Wind 300	273 435	-9.290	-5 334	-959.936	1834 095	-5.46
leg+1 0 Ice+1 0 Temp	2130135	7.470	52.224	-737.750	1054.075	72.40
2 Dead+1 0 Wind 330	273 435	-5 429	-9.150	-1678.387	1104 950	-6.67
leg+1.0 Ice+1.0 Temp	-/-/	3503.50	3,150	-10/0307	1104/220	70.07
Dead+Wind 0 deg - Service	86.402	0.000	-25 796	-4619 253	5.794	-3.60
Dead+Wind 30 deg - Service	86.402	12.631	-20.960	-3763 424	-2308 892	5.110
Dead+Wind 60 deg - Service	86.402	21.156	-12 106	-2189 733	-3847 708	1 91
Dead+Wind 90 deg - Service	86.402	24 775	-0.425	-103.831	-4474 259	0.50
Dead+Wind 120 deg - Service	86 402	22 916	12.382	2162 075	-4109.631	9.92
Dead+Wind 150 deg - Service	86 402	12 085	20 890	3757 489	-2165 852	13 882
Dead+Wind 180 deg - Service	86.402	0.000	23.554	4274.023	5.792	3.60
Dead+Wind 210 deg - Service	86.402	-12 120	20.952	3775 059	2187.589	
Dead+Wind 240 deg - Service	86 402	-22.977	12.417	2172.102		-3 32
Dead+Wind 270 deg - Service	86 402	-24.775	-0.425		4138.605	-0.482
Dead+Wind 300 deg - Service	86 402	-24 775 -21 095		-103.832	4485.836	-0.50
Dead+Wind 330 deg - Service			-12,070	-2179.680	3841.902	-11.35
read willed 330 deg - Service	86.402	-12 595	-20 898	-3745.840	2310.335	-15 67

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Project		Date
	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client	W	Designed by
	Harmoni(Uniti) Towers	JLandon

2000		m of Applied Force			1S		
Load	PX	PY	PZ	PX	PY	PZ	% Erro
Comb.	K	K	K	K	K	K	
1	0.000	-86 402	0.000	0.000	86 402	-0.000	0.000%
2	0.000	-103 682	-80.517	-0 000	103.682	80.510	0.005%
3	0.000	-77 762	-80 517	-0.000	77 761	80,512	0.005%
4	39 426	-103.682	-65 422	-39.423	103.682	65.416	0.005%
5	39.426	-77.762	-65 422	-39.424	77 761	65.418	0.004%
6	66.035	-103.682	-37 786	-66 ()3()	103.682	37.783	0.005%
7	66.035	-77.762	-37 786	-66,031	77.761	37.784	0.004%
8	77 330	-103 682	-1 327	-77.324	103.682	1.327	0.005%
9	77.330	-77 762	-1 327	-77.326	77.761	1.328	0.004%
10	71 527	-103.682	38.647	-71.521	103.682	-38.644	0.005%
11	71.527	-77 762	38 647	-71 523	77.761	-38.645	0.005%
12	37 721	-103 682	65.205	-37 717	103.682	-65.200	0.005%
13	37 721	-77.762	65.205	-37.718	77.761	-65.201	0.004%
14	0.000	-103 682	73 519	-0.000	103.682	-73 513	0.005%
15	0.000	-77 762	73 519	-0.000	77.761	-73 515	0.004%
16	-37 832	-103.682	65 398	37.829	103 682	-65 393	0.005%
17	-37.832	-77.762	65.398	37.830	77.761	-65 394	0.004%
18	-71 718	-103.682	38 758	71 712	103.682	-38 754	0.005%
19	-71.718	-77 762	38.758	71.714	77 761	-38 755	0.005%
20	-77.330	-103.682	-1 327	77.324	103 682	1.327	0.005%
21	-77.330	-77.762	-1 327	77 326	77 761	1.328	0.004%
22	-65 844	-103 682	-37.676	65.839	103.682	37 673	0.005%
23	-65.844	-77 762	-37.676	65 840	77 761	37.674	0.004%
24	-39.315	-103 682	-65.229	39 311	103 682	65 223	0.005%
25	-39.315	-77 762	-65 229	39 312	77 761	65 225	0.004%
26	0.000	-273 435	0.000	-0.001	273 435	0.001	0.001%
27	0.000	-273 435	-10.946	-0.000	273 435	10.944	0.001%
28	5 439	-273 435	-9.167	-5 438	273.435	9.166	0.001%
29	9.307	-273 435	-5.343	-9 305	273.435	5 343	0.001%
30	10.864	-273.435	-0.117	-10.862	273.435	0.117	0.001%
31	9.691	-273.435	5 362	-9 690	273.435	-5.361	0.001%
32	5.289	-273 435	9 150	-5 288	273.435	-9.148	0.001%
33	0.000	-273.435	10.446	-0 000	273.435	-10.444	0.001%
34	-5.298	-273 435	9 165	5.297	273.435	-9.164	0.001%
35	-9.707	-273 435	5.371	9.706	273.435	-5.370	0.000%
36	-10 864	-273 435	-0.117	10.862	273.435	0 117	0.000%
37	-9.291	-273 435	-5.334	9.290	273 435	5 334	0.001%
38	-5 430	-273.435	-9.152	5 429	273.435	9.150	0.001%
39	0.000	-86.402	-25 798	-0.000	86.402	25 796	0.002%
40	12 632	-86 402	-20 961	-12.631	86 402	20 960	0.002%
41	21 157	-86 402	-12 107	-21.156	86.402	12 106	0.002%
42	24.777	-86 402	-0.425	-24 775	86 402	0.425	
43	22 917	-86.402	12 383	-22.916	86.402	-12.382	0.002%
44	12 086	-86 402	20.892	-12.085	86 402	-12.382	0.002%
45	0 000	-86 402	23.555	-0.000			0.002%
46	-12.121	-86 402 -86 402			86.402	-23.554	0.002%
47	-12.121		20.953	12 120	86.402	-20 952	0.002%
48	-24.777	-86.402 -86.402	12 418	22 977	86 402	-12.417	0.002%
49	-21 096	-86.402 -86.402	-0.425	24 775	86,402	0.425	0.002%
50	-12 596		-12.071	21.095	86 402	12.070	0.002%
20	-12.390	-86 402	-20.899	12 595	86.402	20.898	0.002%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00000001

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Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

2 3	Yes	14	0.00006516	0.00012463
3	Yes	14	0.00004882	0.00009376
4	Yes	14	0.00006222	0.00011933
5	Yes	14	0.00004600	0.00008860
6	Yes	14	0.00005977	0.00011485
7	Yes	14	0.00004365	0.00008422
8	Yes	14	0.00006224	0.00011931
9	Yes	14	0.00004603	0.00008860
10	Yes	14	0.00006506	0.00012430
11	Yes	14	0.00004873	0.00009349
12	Yes	14	0.00006241	0.00011963
13	Yes	14	0.00004619	0.00008891
14	Yes	14	0.00005983	0.00011504
15	Yes	14	0.00004370	0.00008438
16	Yes	14	0 00006244	0.00011971
17	Yes	14	0.00004622	0.00008898
18	Yes	14	0.00006509	0.00012438
19	Yes	14	0.00004876	0.00009356
20	Yes	14	0.00006224	0.00011929
21	Yes	14	0.00004603	0 00008859
22	Yes	14	0.00005978	0 00011484
23	Yes	14	0.00004366	0.00008422
24	Yes	14	0.00006219	0.00011925
25	Yes	14	0.00004598	0.00008854
26	Yes	10	0.00000001	0.00011533
27	Yes	15	0.00000001	0 00014318
28	Yes	15	0.00000001	0.00014011
29	Yes	15	0.00000001	0.00014103
30	Yes	15	0.00000001	0.00014313
31	Yes	15	0.00012319	0.00014623
32	Yes	15	0.00012312	0.00014517
33	Yes	15	0.00012307	0.00014643
34	Yes	15	0.00012338	0.00014801
35	Yes	16	0.00000001	0.00007773
36	Yes	15	0.00012311	0.00014843
37	Yes	15	0.00012255	0.00014558
38	Yes	15	0.00000001	0 00014293
39	Yes	14	0.00000001	0.00009825
40	Yes	14	0.00000001	0.00009667
41	Yes	14	0.00000001	0.00009539
42	Yes	14	0.00000001	0.00009666
43	Yes	14	0.00000001	0.00009808
44	Yes	14	0.00000001	0.00009671
45	Yes	14	0.00000001	0.00009545
46	Yes	14	0.00000001	0.00009676
47	Yes	14	0.00000001	0.00009812
48	Yes	14	0.00000001	0.00009663
49	Yes	14	0.00000001	0.00009534
50	Yes	14	0.00000001	0.00009661

Maximum Tower Deflections - Service Wind

Section No.	Elevation	Horz. Deflection	Gov. Load	Tilt	Twist
	fi	in	Comb.	o	o
T1	305 - 295	18.135	47	0.543	0.092
T2	295 - 280	16.944	47	0.545	0.091
T3	280 - 260	15 142	47	0.526	0.090
T4	260 - 240	12 905	47	0.484	0.086
T5	240 - 220	10.860	47	0.439	0.074

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Project		Date
	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client		Designed by
	Harmoni(Uniti) Towers	JLandon

Section No.	Elevation	Horz. Deflection	Gov. Load	Tilt	Twist
	ft	in	Comb.	0	0
T6	220 - 200	9.032	47	0.390	0.063
T7	200 - 180	7.400	47	0.344	0.053
T8	180 - 160	5.961	47	0 302	0.045
T9	160 - 140	4.683	47	0.263	0.036
T10	140 - 120	3.556	47	0.224	0.027
TH	120 - 100	2.597	47	0.188	0.020
T12	100 - 80	1.826	47	0.150	0.017
T13	80 - 60	1.204	47	0.116	0.013
T14	60 - 40	0.722	47	0.086	0.009
T15	40 - 20	0.364	47	0.055	0.006
T16	20 - 0	0.125	47	0.028	0.003

Critical Deflections and Radius of Curvature - Service Wind

Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	in	0	10	ft
305.000	Lightning Rod 1"x10"	47	18.135	0.543	0.092	69849
300.000	Sector1(CaAa=13333.33 Sq.in)No Ice	47	17.541	0.545	0.091	69849
288 000	Sector1(CaAa=10000 Sq.in)No Ice	47	16 098	0.539	0.091	82782
276.000	Sector1(CaAa=10000 Sq.in)No Ice	47	14.676	0.518	0.090	19124
264 000	6' MW Dish	47	13 336	0.493	0.087	25140
252.000	6' MW Dish	47	12 064	0.466	0.081	24647

Maximum Tower Deflections - Design Wind

Section No.	Elevation	Horz. Deflection	Gov. Load	Tilt	Twist
	ft	in	Comb.	0	0
TI	305 - 295	56.670	18	1.696	0.286
T2	295 - 280	52.946	18	1.703	0.284
T3	280 - 260	47.311	18	1.642	0.281
T4	260 - 240	40.321	18	1.510	0.267
T5	240 - 220	33.932	18	1.370	0.230
T6	220 - 200	28 219	18	1.219	0.197
T7	200 - 180	23 121	18	1.076	0.166
T8	180 - 160	18.626	18	0.943	0.140
T9	160 - 140	14.631	18	0.822	0.113
T10	140 - 120	11.111	18	0.698	0.086
TII	120 - 100	8.117	18	0.586	0.064
T12	100 - 80	5.708	18	0.468	0.052
T13	80 - 60	3 762	18	0.363	0.040
T14	60 - 40	2.256	18	0.268	0.030
T15	40 - 20	1.139	18	0.173	0.020
T16	20 - 0	0.393	18	0.086	0.010

Critical Deflections and Radius of Curvature - Design Wind

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Client	Harmoni(Uniti) Towers	Designed by

Elevation	Appurtenance	Gov. Load	Deflection	Tilt	Twist	Radius of Curvature
ft		Comb.	in	0	ø	Ĥ.
305.000	Lightning Rod 1"x10"	18	56.670	1.696	0.286	22612
300.000	Sector1(CaAa=13333.33 Sq in)No Ice	18	54.814	1.703	0.285	22612
288.000	Sector1(CaAa=10000 Sq in)No Ice	18	50.302	1.684	0.283	27022
276.000	Sector1(CaAa=10000 Sq in)No Ice	18	45.857	1.618	0.279	6116
264 000	6' MW Dish	18	41.668	1 538	0.272	8077
252.000	6' MW Dish	18	37.692	1 455	0.254	7916

Bolt Design Data

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Rati Loa Allow	rd	Allowable Ratio	Criteria
TI	305	Diagonal	A325X	0,625	I	3.493	9 598	0 364	V	1	Member Block Shear
		Top Girt	A325X	0.625	1	1 383	9.598	0.144	V	1	Member Block Shear
T2	295	Leg	A325N	0.750	6	1.318	30 101	0.044	V	1	Bolt Tension
		Diagonal	A325X	0.625	1	5.225	9.598	0.544	V	1	Member Block Shear
T3	280	Leg	A325N	0.750	6	5.689	30.101	0.189	V	1	Bolt Tension
		Diagonal	A325X	0.625	1	7 721	9.598		V	1	Member Block Shear
T4	260	Leg	A325N	0.750	6	13.686	30.101	0.455	V	1	Bolt Tension
		Diagonal	A325X	0 625	1	8.649	10.740	0.805	V	(Member Block Shear
T5	240	Leg	A325N	0.750	6	21.874	30.101	0.727	V	1	Bolt Tension
		Dragonal	A325X	0.625	1	8.758	13.025	0.672	V	1	Member Block Shear
T6	220	Leg	A325N	0.750	6	29 445	30 101	0.978	V	E	Bolt Tension
		Diagonal	A325X	0.625	1	9.021	13.025	0.693	V	Ţ	Member Block Shear
T7	200	Leg	A325N	1.000	6	36.352	54 517	0.667	V	1	Bolt Tension
		Diagonal	A325X	0.625	1	9617	14.168	0.679	V	1	Member Block Shear
T8	180	Leg	A325N	1.000	6	42.877	54.517	0 786	V	1	Bolt Tension
		Diagonal	A325X	0.625	1	10.444	14.168	0.737	V	1	Member Block Shear
T9	160	Leg	A325N	1.000	6	49.209	54.517	0.903	V	1	Bolt Tension
200	N.T.	Diagonal	A325X	0 625	1	10.987	14 168	0.776	V	1	Member Block Shear
T10	140	Leg	A325N	1.250	6	55,373	87.220	0.635	V	1	Bolt Tension
		Diagonal	A325X	0.625	1	12.014	17.257	0.696	V	1	Bolt Shear
TII	120	Leg	A325N	1.250	6	61 449	87.220	0.705	V	-1	Bolt Tension
		Diagonal	A325X	0 625	1	13 302	26.051		V	1	Member Block Shear
nucard ar		Horizontal	A325X	0 625	1	7.700	19.195	0.401	V	1	Member Block Shear
T12	100	Leg	A325N	1 250	6	67.371	87.220	0.772	V	1.	Bolt Tension

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Client	Harmoni(Uniti) Towers	Designed by JLandon

Section No.	Elevation	Component Type	Bolt Grade	Bolt Size	Number Of	Maximum Load	Allowable Load	Rat Loc	ıd	Allowable Ratio	Criteria
	ft			in	Bolts	per Bolt K	per Bolt K	Allow	able		
		Diagonal	A325X	0.625	1	13.636	26.051	0 523	V	1	Member Block Shear
		Horizontal	A325X	0.625	1	8.425	21.480	0.392	V	1	Member Block Shear
T13	80	Leg	A325N	1.250	6	73.086	87 220	0.838	V	1	Bolt Tension
		Diagonal	A325X	0.625	1	14.374	28.336	0.507	V	1	Member Block Shear
		Horizontal	A325X	0 625	1	9.143	26.051	0.351	V	1	Member Block Shear
T14	60	Leg	A325N	1.250	6	78.644	87.220	0 902	V	1	Bolt Tension
		Diagonal	A325X	0.625	1	14.737	28.336	0.520	V	1	Member Block Shear
		Horizontal	A325X	0.625	1	9.854	26 051	0.378	V	1	Member Bloc Shear
T15	40	Leg	A325N	1.250	6	84.060	87.220	0.964	V	1	Bolt Tension
		Diagonal	A325X	0.625	1	15.297	28 336	0.540	V	1	Member Bloc Shear
		Horizontal	A325X	0.625	1	10.557	26 051	0.405	V	1	Member Bloc Shear
T16	20	Leg	A325N	1.500	6	89.354	126.472	0.707	V	1	Bolt Tension
		Diagonal	A325X	0.625	1	15.346	28 336	0.542	V	1	Member Bloc Shear
		Horizontal	A325X	0.625	1	11.240	26.051	0.431	V	1	Member Bloc Shear

Compression Checks

Leg Design Data (Compression)

Section	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio	
No	ft	ft	fi	ft		in^2	K	K	$\frac{P_u}{\phi P_v}$	
TI	305 - 295	1 3/4	10 009	4 504	123.5 K=1.00	2.405	-5 486	35.601	0 154	
T2	295 - 280	1 3/4	15 014	4.671	128.1 K=1.00	2.405	-33 000	33.103	0.997	
Т3	280 - 260	2 1/4	20.019	4.754	101.4 K=1.00	3.976	-83 769	84 331	0 993	
T4	260 - 240	2 3/4	20.019	4.754	83.0 K=1.00	5 940	-137 449	161 540	0.851	
T5	240 - 220	3	20.019	4.754	76.1 K=1.00	7.069	-186 937	208.347	0.897	
Т6	220 - 200	3 1/4	20.019	4.754	70.2 K=1.00	8.296	-232 605	260 312	0.894	
T7	200 - 180	3 1/2	20 019	4.754	65.2 K=1.00	9.621	-276,559	317.273	0.872	
Т8	180 - 160	3 3/4	20.019	4.754	60.9 K=1.00	11.045	-320 115	379 106	0.844	

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Section No.	Elevation	Size	L	Lu	Kl/r	A	P_{u}	ϕP_n	Ratio P _u
	,ft		ft	ft		in	K	K	ϕP_n
Т9	160 - 140	3 3/4	20 019	4.754	60 9 K=1 00	11.045	-363 193	379 106	0.958
T10	140 - 120	4	20 019	4 754	57.1 K=1.00	12.566	-406 636	445,717	0.912
TH	120 - 100	4	20.019	4 754	57.1 K=1.00	12.566	-444.221	445.717	0.997
T12	100 - 80	4 1/4	20 019	4 754	53.7 K=1.00	14 186	-486 050	517,034	0.940
T13	80 - 60	4 1/2	20.019	4.754	50.7 K=1.00	15.904	-527 484	593 004	0.890 1
T14	60 - 40	4 1/2	20.019	4.754	50.7 K=1.00	15.904	-568 542	593.004	0.959 1
T15	40 - 20	4 3/4	20.019	4.754	48.0 K=1.00	17.721	-609 086	673.582	0.904
T16	20 - 0	4 3/4	20.019	4,754	48.0 K=1.00	17 721	-648.499	673.582	0.963

 $^{{}^{\}dagger}P_{\mu}/\phi P_{n}$ controls

Diagonal I	Design Data	(Compression)
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Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_π	$Ratio$ P_{π}
	fi		fi	fi		in ²	K	K	ϕP_n
T1	305 - 295	L1 3/4x1 3/4x3/16	6.485	3.258	113.9 K=1.00	0.621	-3 387	13.715	0.247
T2	295 - 280	L1 3/4x1 3/4x3/16	7.435	3 736	130 5 K=1.00	0.621	-4 865	10.431	0.466
T3	280 - 260	L1 3/4x1 3/4x3/16	8.697	4 343	151 7 K=1.00	0 621	-6.851	7.721	0.887
T4	260 - 240	L2x2x3/16	9.987	4.964	151.2 K=1.00	0.715	-8.163	8.951	0.912
T5	240 - 220	L2 1/2x2 1/2x3/16	11,329	5.625	136.4 K=1.00	0.902	-8 314	13.885	0.599
T6	220 - 200	L2 1/2x2 1/2x3/16	12 706	6.303	152.8 K=1.00	0.902	-8 691	11,057	0.786 1
Т7	200 - 180	L3x3x3/16	14 108	6.994	140.8 K=1.00	1.090	-9.314	15.733	0.592
Т8	180 - 160	L3x3x3/16	15.529	7.694	154.9 K=1.00	1.090	-10 145	13.000	0.780
Т9	160 - 140	L3x3x3/16	16.963	8.412	169.4 K=1.00	1 090	-10.759	10.877	0.989
T10	140 - 120	L3x3x1/4	18.408	9 124	184.9 K=1.00	1 440	-11.740	12 050	0.974
T11	120 - 100	2L2 1/2x2 1/2x3/16x3/8	10.829	10.644	168.4 K=1.00	1.800	-13 166	17.598	0.748
T12	100 - 80	2L 'a' > 60.948 in - 261 2L2 1/2x2 1/2x3/16x3/8	11.508	11 313	179 0 K=1 00	1.800	-13 676	15.641	0.874

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A	S #8642 - Chandler Road (Site# KYLEX2051)	33 of 38
Project		Date
	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client	AN CONTRACTOR STATE	Designed by
	Harmoni(Uniti) Towers	JLandon

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P _u
	fi			ft	in ²		K	K	ϕP_n
									V
		2L 'a' > 64.783 in - 300							160
T13	80 - 60	2L3x3x3/16x3/8	12.195	11.991	159.5	2.180	-14.456	23.170	0.624
					K=1.00				V
		$2L'a' \ge 68500 \text{ in} - 339$							
T14	60 - 40	2L3x3x3/16x3/8	12.889	12 687	168.8	2.180	-14.894	20.849	0.714
					K = 1.00				V
		2L 'a' > 72 475 in - 378							
T15	40 - 20	2L3x3x3/16x3/8	13 589	13 378	178.0	2 180	-15.580	18 864	0.826
					K=1.00				V
		2L 'a' > 76 419 in - 417							
T16	20 - 0	2L3x3x3/16x3/8	14.294	14.084	187.4	2.180	-15.809	17 103	0.924
					K=1 00	COLUMN THE	200000000000000000000000000000000000000	.A. 21 2 M.E.	V
		2L 'a' > 80 455 in - 456							

 $^{^{1}}P_{u}/\phi P_{n}$ controls

Horizontal	Design Data	(Compression)
		(- op. ooo.o)

Section No.	Elevation	Size	L	L_u	Kl/r	A	$P_{\scriptscriptstyle H}$	ϕP_n	Ratio P _u
	ft		fi	fi		in ²	K	K	ϕP_n
TH	120 - 100	2L1 3/4x1 3/4x3/16x3/8	19.106	9.386	209.8 K=1.00	1 242	-7,700	8.079	0.953
		2L 'a' > 54.035 in - 259							
	100 - 80	2L2x2x3/16x3/8	20.606	10.126	198.1 K=1.00	1.430	-8 425	10.289	0.819
		2L 'a' > 58 196 in - 298							
T13 80 -	80 - 60	2L2 1/2x2 1/2x3/16x3/8	22 106	10.866	171.9 K=1.00	1 800	-9 143	16.912	0.541
		2L 'a' > 62 219 in - 337							
T14	60 - 40	2L2 1/2x2 1/2x3/16x3/8	23.606	11.616	183.8 K=1.00	1.800	-9.854	14.861	0 663
		2L 'a' > 66 514 in - 376							
T15	40 - 20	2L2 1/2x2 1/2x3/16x3/8	25 106	12.355	195.5 K=1.00	1.800	-10 557	13 179	0.801
		2L 'a' > 70.749 in - 415							
T16	20 - 0	2L2 1/2x2 1/2x3/16x3/8	26.606	13 105	207.4 K=1.00	1.800	-11.240	11.746	0.957
		2L 'a' > 75.043 in - 454							*

 $^{^{1}}P_{u}/\phi P_{n}$ controls

Top Girt Design Data (Compression)
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Section No.	Elevation	Size	L	L_{u}	Kl/r	A	P_a	ϕP_n	Ratio P.,
	fi		ft	ft		in ²	K	K	ϕP_n

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

Job		Page
AT	S #8642 - Chandler Road (Site# KYLEX2051)	34 of 38
Project		Date
J 113 & Jan 14 and 15 and 16 a	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by JLandon

Section No.	Elevation	Size	L	L_{μ}	Kl/r	A	P_u	ϕP_n	Ratio P.,
	ft		ft	ft		in ²	K	K	ϕP_n
TI	305 - 295	L1 3/4x1 3/4x3/16	4 163	4.017	140.3 K=1.00	0.621	-1.519	9 026	0.168

 $^{{}^{1}}P_{n}/\phi P_{n}$ controls

Inner Bracing Design Data (Compression)

Section No.	Elevation	Size	L	L_u	KUr	A	P_u	ϕP_n	Ratio P _u
	ft		ft	ft		in ²	K	K	ϕP_n
TH	120 - 100	L1 3/4x1 3/4x3/16	9.553	9.553	333.8 K=1.00	0.621	-0.011	1.596	0.007
T12	100 - 80	KL/R > 250 (C) - 268 L1 3/4x1 3/4x3/16	10.303	10.303	360 0 K=1 00	0.621	-0.012	1.372	0.008 1
T13	80 - 60	KL/R > 250 (C) - 307 L1 3/4x1 3/4x3/16	11 053	11.053	386 2 K=1 00	0.621	-0.014	1.192	0.011
T14	60 - 40	KL/R > 250 (C) - 346 L1 3/4x1 3/4x3/16	11.803	11 803	412.4 K=1.00	0.621	-0.014	1 045	0.013
T15	40 - 20	KL/R > 250 (C) - 385 L1 3/4x1 3/4x3/16	12 553	12 553	438.6 K=1.00	0.621	-0 014	0 924	0.015
T16	20 - 0	KL/R > 250 (C) - 424 L1 3/4x1 3/4x3/16	13.303	13.303	464 8 K=1 00	0.621	-0 013	0.823	0.016
		KL/R > 250 (C) - 465							

 $^{^{1}}P_{u}$ / ϕP_{u} controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation	Size	L	Lu	Kl/r	A	P_u	ϕP_n	Ratio P _u
	ft		ft	ft		in ²	K	K	ϕP_n
TI	305 - 295	1 3/4	10,009	0.500	13.7	2 405	7 910	108.238	0.073
T2	295 - 280	1 3/4	15.014	0.500	13.7	2 405	34 145	108.238	0,315
T3	280 - 260	2 1/4	20.019	0 500	10.7	3.976	82.130	178 924	0.459
T4	260 - 240	2 3/4	20.019	0.500	8.7	5 940	131.257	267,281	0.491

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Job		Page
ATS	6 #8642 - Chandler Road (Site# KYLEX2051)	35 of 38
Project	305' SST/38.266953, -83.846858	Date 13:50:20 10/19/20
Client	Harmoni(Uniti) Towers	Designed by

Section No	Elevation	Size	L	Lu	Kl/r	A	P_u	ϕP_n	Ratio P _u
	ft		ft	ft		in ²	K	K	ϕP_n
T5	240 - 220	3	20.019	0.500	8.0	7.069	176,681	318 086	0.555
Т6	220 - 200	3 1/4	20.019	0.500	7.4	8 296	218.126	373.310	0.584
T7	200 - 180	3 1/2	20.019	0.500	6.9	9 621	257.282	432,951	0.594
Т8	180 - 160	3 3/4	20.019	0.500	6.4	11 045	295.273	497.010	0.594
Т9	160 - 140	3 3/4	20.019	0.500	6.4	11 045	332.255	497.010	0.669
T10	140 - 120	4	20.019	0.500	6.0	12 566	368.715	565.487	0 652
TH	120 - 100	4	20.019	0.500	6.0	12.566	404 247	565.487	0.715
T12	100 - 80	4 1/4	20.019	0.500	5.7	14.186	438 537	638.381	0.687
T13	.80 - 60	4 1/2	20.019	0.500	5.3	15,904	471,885	715.694	0.659
T14	60 - 40	4 1/2	20.019	0.500	5.3	15.904	504.385	715.694	0.705
T15	40 - 20	4 3/4	20.019	0.500	5.1	17.721	536.150	797 425	0.672
T16	20 - 0	4 3/4	20 019	0.500	5.1	17.721	566.783	797 425	0.711

 $^{^{1}}P_{u}/\phi P_{s}$ controls

Diagonal	Design	Data	(Tension))
- 17				_

Section No.	Elevation	Size	Ĺ	Lu	Kl/r	A	P_{μ}	ϕP_n	Ratio P _u
	fi	fi	fi		in ²	K	K	ϕP_n	
Tl	305 - 295	1.1 3/4x1 3/4x3/16	6.485	3.258	72.8	0.360	3.493	17.567	0.199
T2	295 - 280	L1 3/4x1 3/4x3/16	7.435	3.736	83.5	0 360	5 225	17.567	0.297
Т3	280 - 260	L1 3/4x1 3/4x3/16	8 697	4.343	97.1	0.360	7 721	17.567	0.439
T4	260 - 240	L2x2x3/16	9.987	4.964	96.6	0.431	8.649	21,001	0.412
T5	240 - 220	L2 1/2x2 1/2x3/16	11.329	5.625	86.8	0.571	8.758	27.838	0.315
T6	220 - 200	L2 I/2x2 1/2x3/16	12.706	6.303	97.2	0.571	9.021	27.838	0 324
T7	200 - 180	L3x3x3/16	14.108	6.994	89.4	0.712	9.617	34,712	0.277
T8	180 - 160	L3x3x3/16	15.529	7.694	98.3	0.712	10.444	34.712	0.301
T9	160 - 140	L3x3x3/16	16.963	8 412	107.5	0.712	10.987	34 712	0.317

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Job		Page
,	ATS #8642 - Chandler Road (Site# KYLEX2051)	36 of 38
Project		Date
	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client	A V Company of the Co	Designed by
	Harmoni(Uniti) Towers	JLandon

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_{u}	ϕP_n	Ratio P.,
	ft		ft	ff		in ²	K	K	ϕP_n
									V
T10	140 - 120	L3x3x1/4	18.408	9.124	117.7	0.939	12 014	45.794	0 262
									V
T11	120 - 100	2L2 1/2x2 1/2x3/16x3/8	10.829	10 644	164.2	1.139	13 302	55.529	0 240
									V
		2L 'a' > 60.948 in - 260							
T12	100 - 80	2L2 1/2x2 1/2x3/16x3/8	11.508	11.313	174 5	1.139	13.636	55.529	0.246
									V
77.77		2L 'a' > 64 783 in - 299							
T13	80 - 60	2L3x3x3/16x3/8	12 195	11.991	153.2	1.424	14 374	69,423	0.207
									V
200	221100	2L'a' > 68.500 in - 338							-
T14	60 - 40	2L3x3x3/16x3/8	12 889	12.687	162.1	1 424	14.737	69 423	0.212
									V
701.7	AW	2L 'a' > 72.475 in - 377	AMERICANA						
T15	40 - 20	2L3x3x3/16x3/8	13 589	13 378	171.0	1 424	15.297	69 423	0.220
		EV 1 21 EV 11 EV 11 EV							V
T16	20 0	2L 'a' > 76 419 in - 416	1127212200	112/12/02/2009					
110	20 - 0	2L3x3x3/16x3/8	14.294	14.084	180.0	1 424	15 346	69.423	0.221
		21 () 20 (55)							V
		2L 'a' > 80.455 in - 455							

 $^{^{1}}P_{u}/_{\phi}P_{u}$ controls

Horizontal Design	Data	(Tension)
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Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P.,
	fi		ft	fi		in ²	K	K	ϕP_n
TH	120 - 100	2L1 3/4x1 3/4x3/16x3/8	19.106	9 386	209.8	0.721	7.700	35 134	0.219
T12	100 - 80	2L 'a' > 54 035 in - 265 2L2x2x3/16x3/8	20 606	10 126	196.9	0.862	8 425	42 001	0.201
T13	80 - 60	2L 'a' > 58 196 in - 298 2L2 1/2x2 1/2x3/16x3/8	22.106	10 866	167.6	1 139	9.143	55 529	0.165
T14	60 - 40	2L'a' > 62 219 in - 343 2L2 1/2x2 1/2x3/16x3/8	23.606	11 616	179.2	1 139	9.854	55 529	0.177
T15	40 - 20	2L 'a' > 66 514 m - 382 2L2 1/2x2 1/2x3/16x3/8	25.106	12 355	190.6	1 139	10.557	55,529	0.190
T16	20 - 0	2L 'a' > 70.749 in - 415 2L2 1/2x2 1/2x3/16x3/8	26.606	13.105	202.1	1 139	11.240	55 529	0.202
		2L 'a' > 75.043 in - 454							

 $^{^{\}downarrow}P_{n}/_{\phi}P_{n}$ controls

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

	Page
42 - Chandler Road (Site# KYLEX2051)	37 of 38
505' SST/38 266953 -83 846858	Date 13:50:20 10/19/20
AND THE PROPERTY OF THE PROPER	Designed by
	42 - Chandler Road (Site# KYLEX2051) 805' SST/38.266953, -83.846858 Harmoni(Uniti) Towers

Top Girt Design Data (Tension)									
Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio P.,
	fi		fi	_//		in ²	K	K	ϕP_n
TI	305 - 295	L1 3/4x1 3/4x3/16	4,163	4 017	89.8	0.360	1 383	17.567	0.079

 $^{{}^{\}dagger}P_{\mu}/\phi P_{\pi}$ controls

		Inner	Bracin	g Des	ign D	ata (T	ension)	
Section No.	Elevation	Size	L	L_u	Kl/r	A	P _u	ϕP_n	Ratio P _u
	ft		ft	ft		in^2	K	K	ϕP_n
Tii	120 - 100	L1 3/4x1 3/4x3/16	9.553	9.553	213.5	0.621	0.001	27.949	0.000
T12	100 - 80	L1 3/4x1 3/4x3/16	10.303	10 303	230.3	0.621	0.000	27_949	0.000

¹ $P_u / \phi P_n$ controls

Section Capacity Table

Section	Elevation	Component	Size	Critical	P	$ oldsymbol{\theta} P_{allow} $	%	Pass	-
No.	ft	Туре		Element	K	K	Capacity	Fail	
TI	305 - 295	Leg	1 3/4	1	-5 486	35 601	15.4	Pass	-
T2	295 - 280	Leg	1 3/4	21	-33.000	33 103	99.7	Pass	
T3	280 - 260	Leg	2 1/4	42	-83 769	84.331	99.3	Pass	
T4	260 - 240	Leg	2 3/4	69	-137.449	161 540	85.1	Pass	
T5.	240 - 220	Leg	3	96	-186.937	208 347	89.7	Pass	
T6	220 - 200	Leg	3 1/4	123	-232.605	260 312	89.4	Pass	
							97.8 (b)	* 550.0	
T7	200 - 180	Leg	3 1/2	148	-276.559	317 273	87.2	Pass	
T8	180 - 160	Leg	3 3/4	175	-320.115	379 106	84.4	Pass	
T9	160 - 140	Leg	3 3/4	202	-363 193	379 106	95.8	Pass	
T10	140 - 120	Leg	4	229	-406.636	445 717	91.2	Pass	
T11	120 - 100	Leg	4	256	-444.221	445.717	99.7	Pass	
T12	100 - 80	Leg	4 1/4	295	-486.050	517.034	94.0	Pass	
T13	80 - 60	Leg	4 1/2	334	-527.484	593.004	89.0	Pass	
T14	60 - 40	Leg	4 1/2	373	-568 542	593 004	95.9	Pass	
T15	40 - 20	Leg	4 3/4	412	-609.086	673.582	90.4	Pass	
							96.4 (b)		
T16	20 - 0	Leg	4 3/4	451	-648.499	673.582	96.3	Pass	
TI	305 - 295	Diagonal	L1 3/4x1 3/4x3/16	8	-3.387	13.715	24.7	Pass	
							36.4 (b)		
T2	295 - 280	Diagonal	L1 3/4x1 3/4x3/16	22	-4.865	10 431	46.6	Pass	
							54.4 (b)	\$100.10	
T3	280 - 260	Diagonal	L1 3/4x1 3/4x3/16	43	-6 851	7 721	88.7	Pass	
T4	260 - 240	Diagonal	L2x2x3/16	70	-8.163	8.951	91.2	Pass	
T5	240 - 220	Diagonal	L2 1/2x2 1/2x3/16	98	-8.314	13.885	59.9	Pass	

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

Job		Page
AT	S #8642 - Chandler Road (Site# KYLEX2051)	38 of 38
Project		Date
	305' SST/38.266953, -83.846858	13:50:20 10/19/20
Client	are to take an expense	Designed by
	Harmoni(Uniti) Towers	JLandon

Section	Elevation	Component	Size	Critical	P	oP_{allow}	26	Pass
No.	ft	Type		Element	K	K	Capacity	Fail
100000							672 (b)	
T6	220 - 200	Diagonal	L2 1/2x2 1/2x3/16	125	-8.691	11 057	78.6	Pass
T7	200 - 180	Diagonal	L3x3x3/16	152	-9.314	15 733	59.2	Pass
2008 N							679(b)	
T8	180 - 160	Diagonal	L3x3x3/16	179	-10.145	13.000	78.0	Pass
T9	160 - 140	Diagonal	L3x3x3/16	206	-10.759	10 877	98 9	Pass
T10	140 - 120	Diagonal	L3x3x1/4	233	-11 740	12.050	97.4	Pass
T11	120 - 100	Diagonal	2L2 1/2x2 1/2x3/16x3/8	261	-13.166	17.598	74.8	Pass
T12	100 - 80	Diagonal	2L2 1/2x2 1/2x3/16x3/8	300	-13.676	15.641	87.4	Pas
T13	80 - 60	Diagonal	2L3x3x3/16x3/8	339	-14 456	23.170	62 4	Pass
T14	60 - 40	Diagonal	2L3x3x3/16x3/8	378	-14.894	20 849	71.4	Pass
T15	40 - 20	Diagonal	2L3x3x3/16x3/8	417	-15.580	18.864	82 6	Pass
T16	20 - 0	Diagonal	2L3x3x3/16x3/8	456	-15.809	17 103	92.4	Pass
TH	120 - 100	Horizontal	2L1 3/4x1 3/4x3/16x3/8	259	-7.700	8.079	95.3	Pass
T12	100 - 80	Horizontal	2L2x2x3/16x3/8	298	-8 425	10 289	81.9	Pass
T13	80 - 60	Horizontal	2L2 1/2x2 1/2x3/16x3/8	337	-9.143	16.912	54.1	Pass
T14	60 - 40	Horizontal	2L2 1/2x2 1/2x3/16x3/8	376	-9.854	14.861	66.3	Pass
T15	40 - 20	Horizontal	2L2 1/2x2 1/2x3/16x3/8	415	-10.557	13.179	80.1	Pass
T16	20 - 0	Horizontal	2L2 1/2x2 1/2x3/16x3/8	454	-11 240	11 746	95.7	Pass
TI	305 - 295	Top Girt	L1 3/4x1 3/4x3/16	4	-1.519	9.026	16.8	Pass
T11	120 - 100	Inner Bracing	I.1 3/4x1 3/4x3/16	268	-0.011	1 596	0.7	Pass
T12	100 - 80	Inner Bracing	L1 3/4x1 3/4x3/16	307	-0.012	1 372	0.8	Pass
T13	80 - 60	Inner Bracing	L1 3/4x1 3/4x3/16	346	-0.014	1.192	1.1	Pass
T14	60 - 40	Inner Bracing	L1 3/4x1 3/4x3/16	385	-0.014	1.045	1.3	Pass
T15	40 - 20	Inner Bracing	L1 3/4x1 3/4x3/16	424	-0.014	0.924	1.5	Pass
T16	20 - 0	Inner Bracing	L1 3/4x1 3/4x3/16	465	-0 013	0.823	1.6	Pass
							Summary	1 44.5.
						Leg (T2)	99.7	Pass
						Diagonal	98.9	Pass
						(T9) Horizontal	95.7	Pass
						(T16) Top Girt (T1)	16.8	Pass
						Inner Bracing (T16)	1.6	Pass
						Bolt Checks	97.8	Pass
						RATING =	99.7	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.

Utility ID Utility Name

Address/City/Contact Utility Type

Status

 Enter Partial names to return the closest match for Utility Name and Address/City/Contact entries.

 ✓ Active ✓

Sharen

	Utility 1D	Utility Name	Utility Type	Class	City	State
View	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	San Francisco	CA
View	4108300	Air Voice Wireless, LLC	Cellular	В	Bloomfield Hill	MI
View	4110650	Alliant Technologies of KY, L.L.C.	Cellular	D	Morristown	NJ
View	4111900	ALLNETAIR, INC.	Cellular	С	West Palm Beach	FL
View	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	Α	Lisle	IL
View	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
View	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	ОН
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	Α	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	Α	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	Α	Elizabethtown	KY

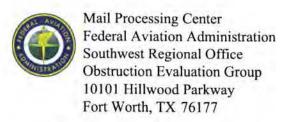
View	4107600	Boomerang Wireless, LLC	Cellular	D	Hiawatha	IA
View	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
View	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	ĽΝ
View	4106600	Cintex Wireless, LLC	Cellular	D	Houston	TX
View	4111150	Comcast OTR1, LLC	Cellular	С	Phoeniexville	PA
View	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4106400	Credo Mobile, Inc.	Cellular	Α	San Francisco	CA
View	4108850	Cricket Wireless, LLC	Cellular	Α	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	Α	Elizabethtown	KY
View	4111650	DataBytes, Inc.	Cellular	D	Rogers	AR
View	4112000	DISH Wireless L.L.C.	Cellular	С	Englewood	со
View	4111200	Dynalink Communications, Inc.	Cellular	С	Brooklyn	NY
View	4111800	Earthlink, LLC	Cellular	С	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	ок
View	4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
View	4105900	Flash Wireless, LLC	Cellular	С	Concord	NC
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Oak Hill	VA
View	4111750	Gabb Wireless, Inc.	Cellular	D	Provo	UΤ
View	4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
View	4102200	Globalstar USA, LLC	Cellular	В	Covington	LA
View	4112050	GLOTELL US, Corp.	Cellular	С	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	ŊĴ
View	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
View	····	i-Wireless, LLC	Cellular	В	Newport	KY
View		IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Dallas	TX
View	4111950	J Rhodes Enterprises LLC	Cellular	С	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	Α	Elizabethtown	KY

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View 4110150 Spectrotel, Inc. d/b/a Touch Base Communications Cellular D Neptune N	IJ
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	SA
View 4200500 SprintCom, Inc. Cellular A Atlanta G	SA
	N
Horizon Cellular	: A
View 4202200 T-Mobile Central, LLC dba T- Cellular A Bellevue W	VA
View 4002500 TAG Mobile, LLC Cellular D Plano TO	χ
View 4109700 Telecom Management, Inc. dba Cellular D Portland M	1E
View 4107200 Telefonica USA, Inc. Cellular D Miami Fl	الــــــــــــــــــــــــــــــــــــ

Utility Master Information -- Search

View	4108900	Telrite Corporation	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	В	Atlanta	GA
View	4109000	Ting, Inc.	Cellular	Α	Toronto	ON
View	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
View	4103300	Touchtone Communications, Inc.	Cellular	D	Whippany	Ų
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	i	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



Issued Date: 03/31/2020

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 KYLEX2051

Location: Sharpsburg, KY

Latitude: 38-16-01.30N NAD 83

Longitude: 83-50-48.69W

Heights: 919 feet site elevation (SE)

317 feet above ground level (AGL) 1236 feet above mean sea level (AMSL)

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

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

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

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

At least 10 days prior to start of construction (7460-2, Part 1)

X Within 5 days after the construction reaches its greatest height (7460-2, Part 2)

This determination expires on 10/01/2021 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.

(c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASO-7604-OE.

Signature Control No: 433282115-435155733

(DNE)

Angelique Eersteling Technician

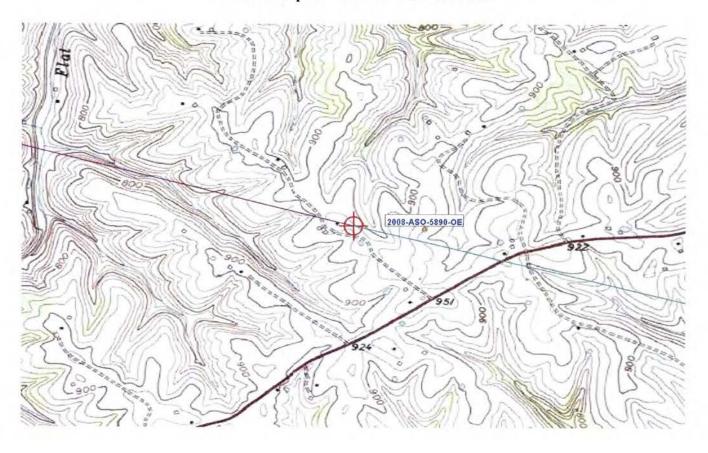
Attachment(s) Frequency Data Map(s)

cc: FCC

Frequency Data for ASN 2020-ASO-7604-OE

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

Verified Map for ASN 2020-ASO-7604-OE



TOPO Map for ASN 2020-ASO-7604-OE

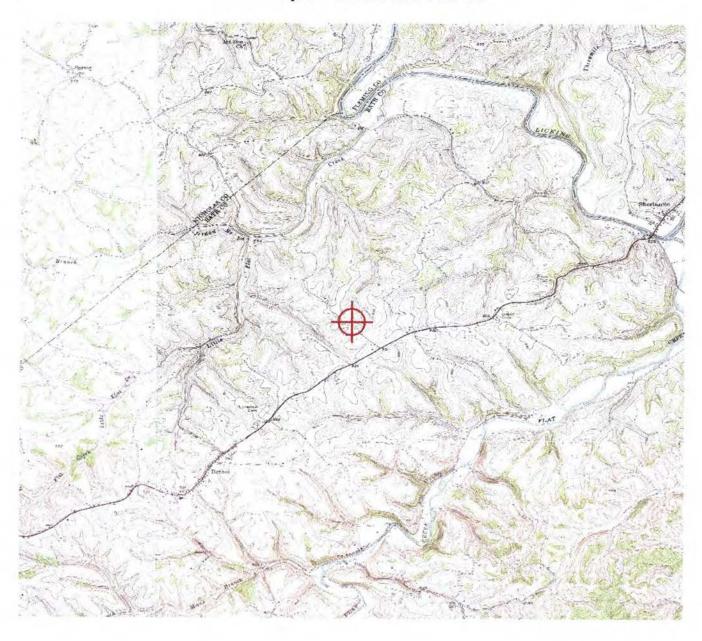


EXHIBIT F KENTUCKY AIRPORT ZONING COMMISSION



KENTUCKY AIRPORT ZONING COMMISSION

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

APPROVAL OF APPLICATION

August 13, 2020

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

SUBJECT: AS-BATH-SYM-2020-100

STRUCTURE: Antenna Tower LOCATION: Sharpsburg, KY

COORDINATES: 38° 16' 1.3" N / 83° 50' 48.69" W

HEIGHT: 317' AGL/1236' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 317' AGL/1236' AMSL Antenna Tower near Sharpsburg, KY 38° 16' 1.3" N / 83° 50' 48.69" W.

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

Duel - Red & Medium Intensity White Obstruction Lighting Required

Randall S. Royer

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



EXHIBIT G GEOTECHNICAL REPORT



BORRELLI

GEOTECHNICAL INVESTIGATION REPORT

September 29, 2020

Prepared For:

B+T Group



Chandler Road KYLEX2051

Proposed Self-Supporting Tower

675 Chandler Road, Sharpsburg (Bath County), Kentucky 40374 Latitude N 38° 16 '01.0" Longitude W 83° 50' 48.7"

> Delta Oaks Group Project GEO20-07036-08 Revision 0 geotech@deltaoaksgroup.com

Performed By:

Erin Benson, E.I.

Reviewed By:

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

DELTA OAKS

DELTA OAKS GROUP

INTRODUCTION

This geotechnical investigation report has been completed for the proposed self-supporting tower located at 675 Chandler Road in Sharpsburg (Bath County), Kentucky. The purpose of this investigation was to provide engineering recommendations and subsurface condition data at the proposed tower location. A geotechnical engineering interpretation of the collected information was completed and utilized to suggest design parameters regarding the adequacy of the structure's proposed foundation capacity under various loading conditions. This report provides the scope of the geotechnical investigation; geologic material identification; results of the geotechnical laboratory testing; and design parameter recommendations for use in the design of the telecommunication facility's foundation and site development.

SITE CONDITION SUMMARY

The proposed tower and compound are located in a grassy field exhibiting a generally flat topography across the tower compound and subject property.

REFERENCES

- Survey Drawings, prepared by Point to Point Land Surveyors, dated January 7, 2020
- TIA Standard (TIA-222-G), dated August 2005

SUBSURFACE FIELD INVESTIGATION SUMMARY

The subsurface field investigation was conducted through the advancement of one mechanical soil test boring to the auger refusal depth of 8.7 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 5.0 feet of rock coring was conducted in accordance with ASTM D 2113. Soil and rock samples were transported to our laboratory and classified by a geotechnical engineer in accordance with ASTM D 2487. A detailed breakdown of the material encountered in our subsurface field investigation can be found in the boring log presented in the Appendix of this report.

Additional testing was performed on selected samples in accordance with ASTM D 7012 (Unconfined Compressive Strength – Rock). Laboratory data can be found 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.

DELTA OAKS

DELTA OAKS GROUP

SUBSURFACE CONDITION SUMMARY

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

FILL

Topsoil was encountered during the subsurface field investigation from the existing ground surface to a depth of 1.0 foot bgs.

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 and lean clay. The materials ranged from a firm to very hard cohesion.

Auger advancement refusal was encountered during the subsurface field investigation at a depth of 8.7 feet bgs.

ROCK

Rock was encountered during the subsurface investigation at a depth of 8.7 feet bgs. The rock can be described as intensely fractured, moderately weathered, moderately hard limestone.

SUBSURFACE WATER

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

FROST PENETRATION

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

CORROSIVITY

Soil resistivity was performed in accordance with ASTM G187 with a test result of 2,850 ohmscm.



FOUNDATION DESIGN SUMMARY

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

GENERAL SUBSURFACE STRENGTH PARAMETERS

Boring	Depth (bgs)	uscs	Moist/Buoyant Unit Weight (pct)	Phi Angle (degrees)	Cohesion (psf)
	0.0 – 1.0	TOPSOIL	105	0	0
	1.0 - 1.5	CL - ML	105	0	500
B-1	1.5 - 6.5	CL	110	0	1,000
	6.5 - 8.7	CL	130	0	6,000
	8.7 – 13.7	LIMESTONE	135	0	12,000

- 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 (psi)		
		3.0	6,910		
	5.0 × 5.0	4.0	7,150		
	3.0 x 3.0	5.0	7,400		
		6.0	7,650		
		3.0	6,540		
	10.0 × 10.0	4.0	6,660		
	10.0 x 10.0	5.0	6,780		
		6.0	6,910		
	15.0 × 15.0	3.0	6,410		
B-1		4.0	6,500		
.0-1		5.0	6,580		
		6.0 6,660			
		3.0	6,350		
	20.0 × 20.0	4,0 6,4	6,410		
	20.0 × 20.0	5.0	6,480		
		6.0	6,540		
		3.0	6,320		
	25.0 × 25.0	4.0	6.370		
	25.0 x 25.0	5.0	6,410		
		6.0	6,460		

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



ULTIMATE PASSIVE PRESSURE VS. DEPTH - TOWER FOUNDATION

Soil Laye	ers (feef)	Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Тор	0	105	0	0	0	1	0
Bottom	1	105	0	0	105	1	52.5
Тор	1	105	0	500	105	1	552.5
Bottom	1.5	105	0	500	157.5	1	578.75
Тор	1.5	110	0	1000	157.5	1	1078.75
Bottom	2.5	110	0	1000	267.5	1	1133.75
Тор	2.5	110	0	1000	267.5	1	2267.5
Bottom	6.5	110	0	1000	707.5	1	2707.5
Тор	6.5	130	0	6000	707.5	1	12707.5
Bottom	8.7	130	0	6000	993.5	1	12993.5
Тор	8.7	135	0	12000	993.5	1	24993.5
Bottom	10	135	0	12000	1169	1	25169



SUBSURFACE STRENGTH PARAMETERS - DRILLED SHAFT FOUNDATION

Boring	Depin (pas) Bearing Capacity		Ultimate Skin Friction - Compression (psf)	Ultimate Skin Friction Upliff (psf)
	0.0 - 3.0	4.		*
D. I	3.0 - 6.0	61,340	550	550
B-1	6.0 - 8.7	79,770	2,400	2,400
	8.7 - 13.7	79,620	4,800	4,800

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



SUBSURFACE STRENGTH PARAMETERS - SUPPORT STRUCTURE FOUNDATION

Boring	Depth (bgs)	Net Ultimate Bearing Capacity (pst)	Minimum Design Footing Width (ff)	Modulus of Subgrade Reaction (pci)	
	2.5	6,480			
B-1	3.0	6,750		200	
	4.0	7,270	2.0	200	
	5.0	7,790			

- 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 2.5 feet bgs.
- A sliding friction factor of 0.30 can be utilized along the base of the proposed foundation.
- An Ultimate Passive Pressure Table is presented on the following page. An appropriate reduction should be considered in accordance with local building code frost penetration depth.
- Delta Oaks Group recommends an appropriate factor of safety be utilized for the design of the foundation.



ULTIMATE PASSIVE PRESSURE VS. DEPTH - SUPPORT STRUCTURE FOUNDATION

Soil Layers (feet)		Moist Unit Weight	Phi Angle	Cohesion	PV	KP	Ph
Тор	0	105	0	0	0	1	0
Bottom	1	105	0	0	105	1	52.5
Тор	1	105	0	500	105	1	552.5
Bottom	1.5	105	0	500	157.5	1	578.75
Тор	1.5	110	0	1000	157.5	1	1078.75
Bottom	2.5	110	0	1000	267.5	1	1133.75
Тор	2.5	110	0	1000	267.5	1	2267.5
Bottom	6.5	110	0	1000	707.5	1	2707.5
Тор	6.5	130	0	6000	707.5	1	12707.5
Bottom	8.7	130	0	6000	993.5	1	12993.5
Тор	8.7	135	0	12000	993.5	1	24993.5
Bottom	10	135	0	12000	1169	1	25169

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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.

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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.

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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

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PROJECT NAME Chandler Road - KY

PROJECT NUMBER GEO20-07036-08

PROJECT LOCATION 675 Chandler Road, Sharpsburg, KY 40374

CLIENT B+T Group

Boring No.: B-1

PAGE 1 OF 1

DATE DRILLED: 9/23/2020 DRILLING METHOD: Hollow Stem Auger GROUND ELEVATION: 920 BORING DEPTH (ft): 13.7		GROUND WATER LEVELS: AT TIME OF DRILLING: — Not Encountered AT END OF DRILLING: — Not Encountered AFTER DRILLING: — Not Encountered														
O DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE TYPE		MATERIAL	Pocket Penetrometer (tsf)	BLOWS 1st	BLOWS 2nd	BLOWS 3rd	N VALUE	11	20		SPT N		70 €	30 90
0.0	TOPSOIL	1	11 1								J 20	30	40 5	0 60	70 8	90
		X	16													
	SILTY CLAY (CL - ML), firm, brown, with sand, moist	1/1		CL-ML		4	2	3	5	4						
	LEAN CLAY (CL), stiff, brown, with sand, trace silt, moist	1		CL						1 \						
26		IV				3	4	5	9	1						
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-												1				
1 8	Tan and gray, trace silt and sand															
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															1	
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7.5	•	$ /\rangle$				ì						1	\top			
. +																
-	LIMESTONE, gray, intensely fractured, moderately weathered, moderately hard	П	H													
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		П	I			0070	2070									
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	Compressive Strength 6,390 psi @ 11.2'	Ш														
	A STATE OF THE STA	Ш														
10.5		Ш														
12.5		П	T										\top			
-		П	I													
			T													
-	Refusal at 8.7 feet. Bottom of borehole at 13.7 feet.							H								
15.0																

EXHIBIT H DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

- Beginning at the Bath County Judge Executive's Office, located at 19 E. Main Street Owingsville, KY 40360, head east (toward N. Court Street / Johnstan Street) on E. Main Street and travel approximately 0.1 miles.
- 2. Turn left onto Suddith Street and travel approximately 0.2 miles.
- Follow Suddith Street as it turns right and becomes E. High Street and travel approximately 0.1 miles.
- 4. Turn left onto KY-36 W and travel approximately 4.8 miles.
- 5. Turn right onto KY-1325 and travel approximately 7.6 miles.
- 6. Turn left onto KY-11 S and travel approximately 2.3 miles.
- 7. Turn right onto Cheyenne Road and travel approximately 233 feet.
- 8. Turn left onto Shiloh Road and travel approximately 417 feet.
- 9. Turn right onto Chandler Road and travel approximately 0.3 miles.
- 10. The site is located on the right at 312 Chandler Road, Sharpsburg, KY 40374.
- 11. The site coordinates are:
 - a. North 38 deg 16 min 01.03 sec
 - b. West 83 deg 50 min 48.69 sec



Prepared by: Chris Shouse Pike Legal Group 1578 Highway 44 East, Suite 6 P.O. Box 396 Shepherdsville, KY 40165-3069

Telephone: 502-955-4400 or 800-516-4293

EXHIBIT I COPY OF REAL ESTATE AGREEMENT

UNITI Site ID: KYLEX2051 UNITI Site Name: Chandler Rd

FA No.: 15147579

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 Amos L. Stoltzfus and Ruth Z. Stoltzfus, having a mailing address of 675 Chandler Rd, Sharpsburg, KY 40374, ("Landlord") and Uniti Towers LLC, a Delaware limited liability company having a mailing address of 10802 Executive Center Drive, Benton Building, Suite 300, Little Rock AR 72211 ("Tenant").

BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, as described on Exhibit 1, together with all rights and privileges arising in connection therewith, located at 312 Chandler Rd, in the City/Town of Sharpsburg, County of Bath, State of Kentucky (collectively, the "Property"). Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

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.
- Oburing 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 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 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.

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

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".

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, (the "Rent"), at the address set forth above. In any partial month occurring after the Rent Commencement Date, Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within forty-five (45) days after the Rent Commencement Date.
- (b) In year two (2) of the Initial Term, and each year thereafter, including throughout any Extension Terms exercised, the monthly Rent will increase by over the Rent paid during the previous year, 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.

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

8. INTERFERENCE.

- (a) Prior to or concurrent with the execution of this Agreement, Landlord has provided or will provide Tenant with a list of radio frequency user(s) and frequencies used on the Property as of the Effective Date. Tenant warrants that its use of the Premises will not interfere with those existing radio frequency uses on the Property, as long as the existing radio frequency user(s) operate and continue to operate within their respective frequencies and in accordance with all applicable laws and regulations.
- (b) Landlord will not grant, after the Effective Date, a lease, license or any other right to any third party, if the exercise of such grant may in any way adversely affect or interfere with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will notify Tenant in writing prior to granting any third party the right to install and operate communications equipment on the Property.
- (c) Landlord will not, nor will Landlord permit its employees, tenants, licensees, invitees, agents or independent contractors to interfere in any way with the Communication Facility, the operations of Tenant or the rights of Tenant under this Agreement. Landlord will cause such interference to cease within twenty-four (24) hours after receipt of notice of interference from Tenant. In the event any such interference does not cease within the aforementioned cure period, Landlord shall cease all operations which are suspected of causing interference (except for intermittent testing to determine the cause of such interference) until the interference has been corrected.
- (d) For the purposes of this Agreement, "interference" may include, but is not limited to, any use on the Property or Surrounding Property that causes electronic or physical obstruction with, or degradation of, the communications signals from the Communication Facility.

9. INDEMNIFICATION.

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

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

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.
- 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, 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. <u>ASSIGNMENT/SUBLEASE</u>. 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:

Amos L. and Ruth Z Stoltzfus

675 Chandler Rd Sharpsburg, KY 43074 Telephone: 606-247-3315

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. <u>CONDEMNATION.</u> 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.
- **CASUALTY.** Landlord will provide notice to Tenant of any casualty or other harm affecting the Property within twenty-four (24) hours of the casualty or other harm. If any part of the Communication Facility or Property is damaged by casualty or other harm as to render the Premises unsuitable, in Tenant's sole determination, then Tenant may terminate this Agreement by providing written notice to Landlord, which termination will be effective as of the date of such casualty or other harm. Upon such termination, Tenant will be entitled to collect all insurance proceeds payable to Tenant on account thereof and to be reimbursed for any prepaid Rent on a *pro rata* basis. Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property, but only until such time as Tenant is able to activate a replacement transmission facility at another location; notwithstanding the termination of this Agreement, such temporary facilities will be governed by all of the terms and conditions of this Agreement, including Rent. If Landlord or Tenant undertakes to rebuild or restore the Premises and/or the Communication Facility, as applicable, Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property at no additional Rent until the reconstruction of the Premises and/or the Communication Facility is completed. If Landlord determines not to rebuild or restore the Property, Landlord will notify Tenant of such determination within thirty (30) days after the casualty or other harm. If Landlord does not so notify Tenant and Tenant decides not to

terminate under this Section, then Landlord will promptly rebuild or restore any portion of the Property interfering with or required for Tenant's Permitted Use of the Premises to substantially the same condition as existed before the casualty or other harm. Landlord agrees that the Rent shall be abated until the Property and/or the Premises are rebuilt or restored, unless Tenant places temporary transmission and reception facilities on the Property.

- 20. WAIVER OF LANDLORD'S LIENS. Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility or any portion thereof. The Communication Facility shall be deemed personal property for purposes of this Agreement, regardless of whether any portion is deemed real or personal property under applicable law; Landlord consents to Tenant's right to remove all or any portion of the Communication Facility from time to time in Tenant's sole discretion and without Landlord's consent.21.
- (a) Landlord shall be responsible for (i) all taxes and assessments levied upon the lands, improvements and other property of Landlord including any such taxes that may be calculated by a taxing authority using any method, including the income method (ii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with this Agreement and (iii) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with a sale of the Property or assignment of Rent payments by Landlord. Tenant shall be responsible for (y) any taxes and assessments attributable to and levied upon Tenant's leasehold improvements on the Premises if and as set forth in this Section 21 and (z) all sales, use, license, value added, documentary, stamp, gross receipts, registration, real estate transfer, conveyance, excise, recording, and other similar taxes and fees imposed in connection with an assignment of this Agreement or sublease by Tenant. Nothing herein shall require Tenant to pay any inheritance, franchise, income, payroll, excise, privilege, rent, capital stock, stamp, documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Landlord.
- (b) In the event Landlord receives a notice of assessment with respect to which taxes or assessments are imposed on Tenant's leasehold improvements on the Premises, Landlord shall provide Tenant with copies of each such notice immediately upon receipt, but in no event later than thirty (30) days after the date of such notice of assessment. If Landlord does not provide such notice or notices to Tenant in a timely manner and Tenant's rights with respect to such taxes are prejudiced by the delay, Landlord shall reimburse Tenant for any increased costs directly resulting from the delay and Landlord shall be responsible for payment of the tax or assessment set forth in the notice, and Landlord shall not have the right to reimbursement of such amount from Tenant. If Landlord provides a notice of assessment to Tenant within such time period and requests reimbursement from Tenant as set forth below, then Tenant shall reimburse Landlord for the tax or assessments identified on the notice of assessment on Tenant's leasehold improvements, which has been paid by Landlord. If Landlord seeks reimbursement from Tenant, Landlord shall, no later than thirty (30) days after Landlord's payment of the taxes or assessments for the assessed tax year, provide Tenant with written notice including evidence that Landlord has timely paid same, and Landlord shall provide to Tenant any other documentation reasonably requested by Tenant to allow Tenant to evaluate the payment and to reimburse Landlord.
- (c) For any tax amount for which Tenant is responsible under this Agreement, Tenant shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as permitted by law. This right shall include the ability to institute any legal, regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate with respect to the commencement and prosecution of any such proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant, to the extent the amounts were originally paid by Tenant. In the event Tenant notifies Landlord by the due date for assessment of Tenant's intent to contest the assessment, Landlord shall not pay the assessment pending conclusion of the contest, unless required by applicable law.
- (d) Landlord shall not split or cause the tax parcel on which the Premises are located to be split, bifurcated, separated or divided without the prior written consent of Tenant.

- (e) Tenant shall have the right but not the obligation to pay any taxes due by Landlord hereunder if Landlord fails to timely do so, in addition to any other rights or remedies of Tenant. In the event that Tenant exercises its rights under this Section 21(e) due to such Landlord default, Tenant shall have the right to deduct such tax amounts paid from any monies due to Landlord from Tenant as provided in Section 15(b), provided that Tenant may exercise such right without having provided to Landlord notice and the opportunity to cure per Section 15(b).
- (f) Any tax-related notices shall be sent to Tenant in the manner set forth in Section 17. Promptly after the Effective Date of this Agreement, Landlord shall provide the Notice address set forth in Section 17 to the taxing authority for the authority's use in the event the authority needs to communicate with Tenant. In the event that Tenant's tax address changes by notice to Landlord, Landlord shall be required to provide Tenant's new tax address to the taxing authority or authorities.
- (g) Notwithstanding anything to the contrary contained in this Section 21, Tenant shall have no obligation to reimburse any tax or assessment for which the Landlord is reimbursed or rebated by a third party.

22. SALE OF PROPERTY.

- (a) Landlord may sell the Property or a portion thereof to a third party, provided: (i) the sale is made subject to the terms of this Agreement; and (ii) if the sale does not include the assignment of Landlord's full interest in this Agreement, the purchaser must agree to perform, without requiring compensation from Tenant or any subtenant, any obligation of Landlord under this Agreement, including Landlord's obligation to cooperate with Tenant as provided hereunder.
- (b) If Landlord, at any time during the Term of this Agreement, decides to rezone or sell, subdivide or otherwise transfer all or any part of the Premises, or all or any part of the Property or Surrounding Property, to a purchaser other than Tenant, Landlord shall promptly notify Tenant in writing, and such rezoning, sale, subdivision or transfer shall be subject to this Agreement and Tenant's rights hereunder. In the event of a change in ownership, transfer or sale of the Property, within ten (10) days of such transfer, Landlord or its successor shall send the documents listed below in this Section 22(b) to Tenant. Until Tenant receives all such documents, Tenant's failure to make payments under this Agreement shall not be an event of default and Tenant reserves the right to hold payments due under this Agreement.
 - i. Old deed to Property
 - ii. New deed to Property
 - iii. Bill of Sale or Transfer
 - iv. Copy of current Tax Bill
 - v. New IRS Form W-9
 - vi. Completed and Signed Tenant Payment Direction Form
 - vii. Full contact information for new Landlord including phone number(s)
- (c) Landlord agrees not to sell, lease or use any areas of the Property or Surrounding Property for the installation, operation or maintenance of other wireless communication facilities if such installation, operation or maintenance would interfere with Tenant's Permitted Use or communications equipment as determined by radio propagation tests performed by Tenant in its sole discretion. Landlord or Landlord's prospective purchaser shall reimburse Tenant for any costs and expenses of such testing. If the radio frequency propagation tests demonstrate levels of interference unacceptable to Tenant, Landlord shall be prohibited from selling, leasing or using any areas of the Property or the Surrounding Property for purposes of any installation, operation or maintenance of any other wireless communication facility or equipment.
- (d) The provisions of this Section shall in no way limit or impair the obligations of Landlord under this Agreement, including interference and access obligations.
- 23. RIGHT OF FIRST REFUSAL. Notwithstanding the provisions contained in Section 22, if at any time after the Effective Date, Landlord receives a bona fide written offer from a third party seeking any sale, conveyance, assignment or transfer, whether in whole or in part, of any property interest in or related to the Premises, including without limitation any offer seeking an assignment or transfer of the Rent payments

associated with this Agreement or an offer to purchase an easement with respect to the Premises ("Offer"), Landlord shall immediately furnish Tenant with a copy of the Offer. Tenant shall have the right within ninety (90) days after it receives such copy to match the financial terms of the Offer and agree in writing to match such terms of the Offer. Such writing shall be in the form of a contract substantially similar to the Offer, but Tenant may assign its rights to a third party. If Tenant chooses not to exercise this right or fails to provide written notice to Landlord within the ninety (90) day period, Landlord may sell, convey, assign or transfer such property interest in or related to the Premises pursuant to the Offer, subject to the terms of this Agreement. If Landlord attempts to sell, convey, assign or transfer such property interest in or related to the Premises without complying with this Section 23, the sale, conveyance, assignment or transfer shall be void. Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement until Landlord complies with this Section 23. Tenant's failure to exercise the right of first refusal shall not be deemed a waiver of the rights contained in this Section 23 with respect to any future proposed conveyances as described herein.

24. MISCELLANEOUS.

- (a) Amendment/Waiver. This Agreement cannot be amended, modified or revised unless done in writing and signed by Landlord and Tenant. No provision may be waived except in a writing signed by both parties. The failure by a party to enforce any provision of this Agreement or to require performance by the other party will not be construed to be a waiver, or in any way affect the right of either party to enforce such provision thereafter.
- (b) Memorandum. Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum of Lease substantially in the form attached as Exhibit 24b. Either party may record this Memorandum of Lease at any time during the Term, in its absolute discretion. Thereafter during the Term, either party will, at any time upon fifteen (15) business days' prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum of Lease.
- (c) Limitation of Liability. Except for the indemnity obligations set forth in this Agreement, and otherwise notwithstanding anything to the contrary in this Agreement, Tenant and Landlord each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.
- (d) Compliance with Law. Tenant agrees to comply with all federal, state and local laws, orders, rules and regulations ("Laws") applicable to Tenant's use of the Communication Facility on the Property. Landlord agrees to comply with all Laws relating to Landlord's ownership and use of the Property and any improvements on the Property.
- (e) Bind and Benefit. The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.
- (f) Entire Agreement. This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement. Exhibits are numbered to correspond to the Section wherein they are first referenced. Except as otherwise stated in this Agreement, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys, and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Agreement and the transactions it contemplates.
- (g) Governing Law. This Agreement will be governed by the laws of the state in which the Premises are located, without regard to conflicts of law.
- (h) Interpretation. Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (iii) whenever a party's consent is required under this Agreement, except as otherwise stated in the Agreement or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of this Agreement and are incorporated by reference into this Agreement; (v) use of the terms "termination" or "expiration" are interchangeable; (vi)

reference to a default will take into consideration any applicable notice, grace and cure periods; (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Agreement, the ambiguity shall not be resolved on the basis of who drafted the Agreement; (viii) the singular use of words includes the plural where appropriate and (ix) if any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force if the overall purpose of the Agreement is not rendered impossible and the original purpose, intent or consideration is not materially impaired.

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- (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"

By: Ruth 2 Stoltzfus

By: Ruth 2 Stoltzfus

Print Name: Ruth 2 Stoltzfus

Date:

"TENANT"

Uniti Towers LLC

Print Name: Ginger Majors

Its: VP-Real Estate

Date: 7 4 70 6

[ACKNOWLEDGMENTS APPEAR ON NEXT PAGE]

TENANT ACKNOWLEDGMENT

STATE OF ARKANSAS

COUNTY OF PULASKI

On the 4th day of March acknowledged of Uniti Towers I such was authorized to execute this instrument on behalf	LC, the Tonant named in the attached instrument, and as
NOTAR LOS OF BUBLIC & SE	Notary Public: 19701 (19) My Commission Expires: 1/13/2027

LANDLORD ACKNOWLEDGMENT

BE IT REMEMBERED, that on this D day of
BE IT REMEMBERED, that on this day of personally appeared Ruth Z. Stoltzfus who, being duly sworn on her oath, deposed and made proof to my satisfaction that she is the person named in the within instrument; and I, having first made known to her the contents thereof, she did acknowledge that shey signed, sealed and delivered the same as her voluntary act and deed for the purposes therein contained Notary Public: My Commission Expires:

EXHIBIT 1

DESCRIPTION OF PREMISES

Page 1 of 4

to the Option and Lease Agreement dated March 4, 2020, by and between Amos L. Stoltzfus and Ruth Z. Stoltzfus, as Landlord, and Uniti Towers LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

The following described real property located on Chandler Road in Bath County, Kentucky, to-wit: Tract No. I

A certain parcel of land lying and being in Bath County, Kentucky on the waters of Little Flat Creek and described as follows: BEGINNING at a large elm tree on the East side North 4 1/4 West 22 poles to a stone on the same side of the branch corner to Peters; thence North 23 3/4 East 18 poles to a stone 7 links North 12 East from a beech tree North 8 East 10 poles to an elm stump corner to Peters; thence North 9 1/2 West 20 poles to a stone in Peters line and corner to Lot No. 6; thence South 9 3/4 West 17.60 poles to a stone; thence South 44 3/4 West 17.40 poles to a stone; thence South 47 1/2 West 19.70 poles to a beech stump; thence South 72 3/4 West 8 poles to a stone corner to Lot No. 4; thence South 43 1/2 East 65 poles to a stone corner to Lot Nos. 1, 2 and 3; thence North 72 East 53.50 poles to a stone in Peters line and corner to Lot No. 5; thence North 4 1/2 East 66 poles to the beginning containing 39 acres and two roods.

Tract No. II

A certain parcel of land lying and being in Bath County, Kentucky, on Little Flat Creek and described as follows: Bounded on the East by the lands of George Baird and T.B. Reid; on the North by the land of Winnie Vice; on the West by the land of A.K. Gorham and on the South by the lands of Lee Cannon and William Hawkins, containing 52 acres, which parcel of land consists of Lots 1, 2, 3, 4 and 5 of the Plat of division of William R. Vice, deceased: Tract No. III A certain parcel of land lying and being in Bath County, Kentucky on Little Flat Creek and described as follows: BEGINNING at a stake, at corner made for the said Luther B. Vice and M.H. Vice in Jacob Boyd's line; thence with his line North 37 1/2 West 96.2 poles to a stake, corner to the land of Charles H. Cannon and wife; thence with their line North 75 3/4 East 17.36 poles to a stake, corner to same; thence North 70 1/4 East 17 poles to a stake, corner to same; thence South 14 1/4 East 232 poles, crossing the branch, to a stake, corner to same; thence North 60 1/4 East 14.64 poles to a black locust tree, corner to same; thence North 33 1/2 East 1/5.36 poles to a stake, corner to same in Nick Reed's line; thence with his line South 35 1/2 East 57.8 poles to a stake in branch, corner to same; thence South 39 1/2 East 3.68 poles to a fence post, a corner made with the Saie Luther B. Vice; thence with a line made between him and the said M.H Vice up the hollow South 47 3/4 West 29.8 poles to a black walnut tree, corner made for same; thence 41 1/4 West 16.4 poles to another black walnut tree, corner made for same; thence South 18 1/4 West 17.48 poles to the center of ?ve small black ash trees growing from the same stump, corner made for same; thence South 31 West 21.8 poles to a stake, corner made for same; thence South 14 1/2 East 27. 8 poles to a fence post, corner made for same; thence South 49 West 51 .72 poles to the beginning, containing 60 acres and six square poles of land. Tract No. IV

A certain parcel of land lying and being in Bath County, Kentucky, on the waters of Little Flat Creek and described as follows: Beginning at a stone in the line of Jacob Boyd, corner to Peters; thence North 58 East 75 6/100 poles to a stake, at corner to said Peters; thence South 45 ¾ poles to a point in the middle of the Maysville and Mt. Sterling Turnpike road; thence with the middle of said pike, North 52 1/2 East 1 5/10 poles to another point in the middle of same; thence leaving the pike North 45 3/4 West 68 24/100 poles to a stake, corner to the Peters land; thence North 49 1/2 East 72 2/10 poles to a Stone, corner to Sim Evans; thence North 41 West 98 84/100 poles to a fence post, corner with M.H. Vice; thence with said M.H. Vice's line up the hollow South 47 3/4 West 29 8/10 poles to a black walnut tree, corner made for same; thence South 18 1/4 West 17 48/ 100 poles to the center of five small black ash trees growing from the same stump, corner for same; thence South 31 West 21 8/10 poles to a stake, corner for Same; thence South 14 1/2 East 27 8/10 poles to a fence post, corner for same; thence South 49 West 51 72/100 poles to a stake in Jacob Boyd's line, corner with said M.H. Vice; thence South 38 1/2 East 44 64/100 poles to the beginning, containing 69 acres, one rood and 29 square poles.

A certain parcel of land lying and being in Bath County, Kentucky on the waters of Little Flat Creek and described as follows: BEGINNING at a set stone, corner to the land of Jacob Boyd; thence with his line South 37 1/2 East 68.64 poles to a stake in the line of said Boyd, corner made for the land conveyed by the parties of the first part to H.M. Vice by deed of even date herewith; thence with the line of said Vice North 75 3/4 East 17.36 poles to a stake, corner made for same; thence

North 70 1/4 East 17 poles to a stake, corner made for same; thence South 14 1/4 East 2.32 poles crossing the branch to a stake, corner made for same; thence North 60 1/4 East 14.64 poles to a black locust tree, corner made for same; thence North 33 1/2 East 105.36 poles to a stake, corner made for same in the line of Nick Reed; thence with said Reed's line North 36 West 59.2 poles to a set stone, corner to him and G.A. Vice; thence with said Vice's line and the line of Lee Cannon South 49 West 146.8 poles to the beginning, containing 68 acres, three roods and 27 square poles of land. Tract No. VI

A certain parcel of land lying and being in Bath County, Kentucky, on the waters of Little Flat Creek and Bounded on the North by the lands formerly owned by Lizzie Vice Cannon and C.H. Cannon, both now deceased, now S.B. Cannon, et al., and lands formerly owned by Tom Capps; on the East by the lands formerly owned by Lizzie V. Cannon and C.H. Cannon, both now deceased, now S.B. Cannon, et al; on the South by Kenneth Shields, formerly Hawkins and on the West by Noah Smith, formerly Boyd, containing 72 acres be the same more or less. The above six tracts of land contain in the aggregate 364 acres, more or less; all tracts adjoin and make up one boundary and said boundary is bounded on the North by lands formerly belonging to Gano Hendrix, now Darnell, Elizabeth Sharp, Arathur Maze and Kate Shields; on the East by Dorothy Ledford and Game Hendrix (now Darnell); on the South by N.H. Smith and on the West by Douglas Thomas, Kenneth Shields and Kate Shields. There is also conveyed hereby all legal and existing passways appurtenant to or affecting said land, including passways conveyed by Alvin Cannon and Alta Cannon, his wife, to Leander Cannon, by deed dated December 16, 1919, of record at Deed Book 80, Page 568, Bath County Clerk's Office. This conveyance is also subject to any and all legal and existing passways, if any, across said land for the benefit of others.

AND BEING the same property conveyed to Amos L. Stoltzfus and Ruth Z. Stoltzfus from Etna Ann Smathers and William T. Smathers, Jr., and Dr. S.B. Cannon II and Susan Cannon by Deed dated December 19, 2014 and recorded December 19, 2014 in Deed Book 236, Page 87. Tax Parcel No. 013-00-00-012.00

The Premises are described and/or depicted as follows:

LEASE AREA

All that tract or parcel of land lying and being in Bath County, Kentucky, and being part of the lands of Amos L. Stoltzfus and Ruth Z. Stoltzfus, as recorded in Deed Book 236 Page 87, Bath County Records, Bath County, Kentucky, and being more particularly described as follows:

To find the point of beginning, COMMENCE at a point created by the centerline intersection of Shiloh Road and Chandler Road, said point having a Kentucky Grid North, NAD83, Single Zone Value of N: 3989125.7131, E: 5468755.8852; thence running along a tie line, North 42°11'34" West, 1594.06 feet to a point on the easterly right-of-way line of Chandler Road having a Kentucky Grid North, NAD83, Single Zone Value of N: 3990306.7318, E: 5467685.2702; thence leaving said right-of-way line, North 01°38'15" West, 85.31 feet to a point; thence, North 47°59'39" West, 68.06 feet to a point on the Lease Area; thence running along a Lease Area, South 42°00'21" West, 50.00 feet to a point and the true POINT OF BEGINNING; Thence, North 47°59'39" West, 100.00 feet to a point; Thence, North 42°00'21" East, 100.00 feet to a point; Thence, South 47°59'39" East, 100.00 feet to a point; Thence, South 42°00'21" West, 100.00 feet to a point and the POINT OF BEGINNING.

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

Said tract contains 0.2296 acres (10,000 square feet), more or less, as shown in a survey prepared for Uniti Towers, LLC by POINT TO POINT LAND SURVEYORS, INC. dated January 7, 2020.

30' INGRESS-EGRESS & UTILITY EASEMENT

Together with a 30-foot Ingress-Egress and Utility Easement (lying 15 feet each side of centerline) lying and being in Bath County, Kentucky, and being part of the lands of Amos L. Stoltzfus and Ruth Z. Stoltzfus, as recorded in Deed Book 236 Page 87, Bath County Records, Bath County, Kentucky, and being more particularly described by the following centerline data:

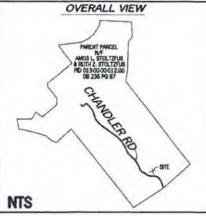
To find the point of beginning, COMMENCE at a point created by the centerline intersection of Shiloh Road and Chandler Road, said point having a Kentucky Grid North, NAD83, Single Zone Value of N: 3989125.7131, E: 5468755.8852; thence running along a tie line, North 42°11'34" West, 1594.06 feet to a point on the easterly right-of-way line of Chandler Road having a Kentucky Grid North, NAD83, Single Zone Value of N: 3990306.7318, E: 5467685.2702 and the true POINT OF BEGINNING; Thence leaving said right-of-way line, North 01°38'15" West, 85.31 feet to a point; Thence, North 47°59'39" West, 68.06 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 January 7, 2020.

Notes:

- THIS EXHIBIT MAY BE REPLACED BY A LAND SURVEY AND/OR CONSTRUCTION DRAWINGS OF THE PREMISES ONCE RECEIVED BY TENANT.
- ANY SETBACK OF THE PREMISES FROM THE PROPERTY'S BOUNDARIES SHALL BE THE DISTANCE REQUIRED BY THE
 APPLICABLE GOVERNMENT AUTHORITIES.
- 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: MADE L. STOLTZPLE & RUTH Z. STOLTZPLE

BITE MODELS: 673 OWNOLES IID, BIOLIFEBURG, NY 40374

FARESTL DE CLESCOSCOSTIZADO

ANEA: 361 ACRES OVER TAX ASSESSOR

ALL SCHOOL DECORMATESH SHOULD BE VEHICLD WITH THE PROPER ZERBAG CETICALS.

REPUBLICE: DETO BOOK 216 MAR 87

SITE INFORMATION

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

LATITUDE = 38", 8"01,01" (NAD 83) (38,266953") LONGITUDE = -83"90"48,69" (NAD 83) (83,846858") AT CENTER OF LEASE AREA

ELEVATION AT CENTER OF LEASE AREA . 918.8" A.M.S.L.

SURVEYOR'S CERTIFICATE

C. O. DOWNELL DIRECTOR A MENTIONY PROFESSIONAL LAND IMPACTOR. CONTENTIAL IN PROCESSIONAL CONTENTIAL IN PROCESSIONAL CONTENTIAL IN PROCESSIONAL CONTENTIAL IN CONTENTIAL INCIDENTIAL CONTENTIAL INCIDENTIAL CONTENTIAL CONTEN



GPS NOTES

THE POLICIANTS OPER STATETICS UPON WHICH THIS SUPPLY IT SAIDLE HOME THEN PRODUCED AT THE ROY CONFEDERS LEVEL:

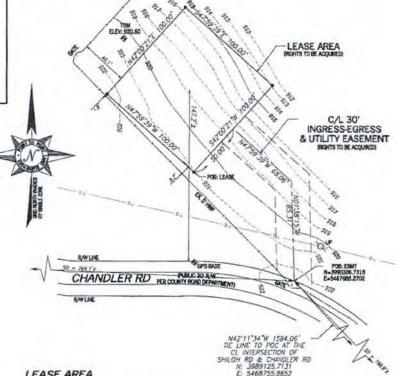
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30' INGRESS-EGRESS & UTILITY EASEMENT

TOGETHER WITH A 30-FOOT INGRESS-EGRESS AND UTILITY EASIMENT (LYNG 15 FEET EACH SIDE OF CENTERLINE) LYNG AND BEING IN BATH COUNTY, RENTILIOKY, AND BEING BY PART OF THE LANGS OF AMOS IL STOLTERUS, AND REITH 2, STOLTERUS, AS RECORDED IN DEED BOOK 235 PAGE 87, BATH COUNTY, RECORDE, BATH COUNTY, REPORT ON A THE COUNTY RECORDED BY THE FOLLOWING CONTRESINED DATA:

TO PIND THE POINT OF BEGINNING, COMMENCE AT A POINT DISEATED BY THE CONTIGUES. INTERSECTION OF SHILDH POUR AND CHANDLER ROAD, SAID POINT HAVING A KENTUCKY GRID NORTH, NABES, SINGLE ZONE VALLE OF IN 3999125, 7131, E 5469755,8852; THENCE RINNING A CHANDLER ROAD, SAID NORTH 427-1134 WEST, 1594 DO FEET TO A POINT ON THE EASTERLY ROCKT-CHAND LINE OF CHANDLER ROAD HAVING A KENTUCKY GRID NORTH, NABES, SINGLE ZONE VALUE OF IN 3990205, 7318, E 5467882, 2702 AND THE TICKE POINT OF BEGINNING, THENCE LEAVING ADD RIGHT-CHAND LINE, NORTH 0138157 WEST, 68,31 FEET TO A POINT, THENCE, NORTH 475979 WEST, 68.05 FEET TO THE DEBING AT A POINT ON THE LEASE AFEA.

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



LEASE AREA

ALL THAT TRACT OR PARCEL OF LAND LYING AND BEING IN BATH COUNTY, KENTUCKY, AND BEING PART OF THE LANDS OF AMOS IL. STOLTZFUS AND RUTH Z. STOLTZFUS, AS RECORDED IN DEED BOOK 236 PAGE 87, BATH COUNTY RECORDS, BATH COUNTY, KENTUCKY, AND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

TO FIND THE POINT OF BEGINNING, COMMENCE AT A POINT CREATED BY THE CENTERLINE INTERSECTION OF SHLICH ROAD AND CHANGLER ROAD, SAD POINT HAVING A KENTUCKY GRID NORTH, NADBS, SINGLE ZONG WALLE OF N. 3889125,7131, E: 5468755,8852; THENCE RUNNING A CONG A TE LINE, NORTH A 271134* WEST, 1540,6 FEET TO A POINT ON THE ELISTERLY RIGHTLOFWAY LINE, OF CHANGLER ROAD HAWING A KENTUCKY GRID NORTH, MOREH, ANDERS, SINGLE ZONE VALUE OF N. 3990305,7318, E: 5467685.2702; THENCE LEAVING SAD RIGHTWAY LINE, NORTH OIT 38115* WEST, 85.31 FEET TO A POINT; THENCE, NORTH A 775939* WEST, 50.00 FEET TO A POINT; THENCE, SOUTH A 270021* WEST, 50.00 FEET TO A POINT; THENCE RUNNING ALONG A LEASE AREA, SOUTH A 270021* WEST, 50.00 FEET TO A POINT; THENCE, SOUTH A 270021* CAST, 100.00 FEET TO A POINT; THENCE, SOUTH A 270021* CAST, 100.00 FEET TO A POINT; THENCE, SOUTH A 270021*

BEARINGS ARE BASED ON KENTUCKY GRID NORTH, NADB3, SINGLE ZONE.

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



VICINITY MAP

GENERAL NOTES

* THIS SPLICED PLAFFORD SLAWLY IS FOR THE LEASED PROMISES AND EAST-BOTTS. ONLY THIS SPLICED RAPINGS SLAWLY WAS PROVIDED FOR THE COLLISING USE OF THIS SPRICED. AND COLLISIONS IN ON IN TRANSPORTING. OF THE WOOD SLAWLY SPLICED SLAWLY SPLICED SLAWLY SPLICED SPLICED SPLICED. OF THE SECOND SPLICED SPLICED SPLICED SPLICED SPLICED. SUITABLES, OF THE SPLICED SPLICED SPLICED SPLICED SPLICED SUITABLES, OUTSIDE SPLICED SPLICE

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THE FIELD DATA LIPON WHICH THIS SPECIFIC PLAPOSE SERVEY IS DIKED HAS A DECEMBER PRECISION OF THE POOT IN 18,000 - FRET AND AN ANGULAR EMICH OF THE PARKET PORT AND WAS NOT ALLESTED FOR CLOSURE.

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PER THE FEMA RUCCOPLAIN MAPS, THE WITE IS LOCATED IN AN AMEA DESIGNATED AS 2006 X (AMEA OF MISSIAL RUCCO HAZAMES, COMMANIETY PHARE), NO. 1 210110000500 DATER: 12/17/2010.

NO NETLAND AREAS HAVE BEEN EMERICATED BY THIS SPECIFIC PLRYOSE SURVEY. ALL TORS DECISIONS BOLED BY VEHED WITH THE PROPER BYING OFFICIALS

ANY UNCERNICEND LITERS SHOWN HAVE BEEN LOCATED PROBLADMS OPCURED FELL SHAWN SHOWN IN A BANK OF CHARLE THAT ANY INCOMPANIES HAVE AND ANY INCOMPANIES HAVE ANY INCOMPANIES HAVE AND A SHAWN AND A SHAWN







Know what's below. Call before you dig 12 100 1 19525567

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

NO. DATE REVISION

4497

100 Governors Trace, Ste. 103 Peachtree City, GA 30269 (p) 678.565.4440 (f) 678.565.44 (w) pointtopolintsurvey.com SURVEYORS

POINT

0

POINT



SPECIFIC REPORT SURVEY PREPARED FOR



CHANDLER RD

SITE NO. KYLEX2051 BATH COUNTY, NENTUCKY

CHECKED BY: JA

PPROVEDE D. MILLER DATE: JUNEIARY 7, 2000

EXHIBIT J NOTIFICATION LISTING

Bethel - Chandler Road - Notice List

STOLTZFUS AMOS & RUTH 675 CHANDLER RD SHARPSBURG, KY 40374

SMITH FRANCIS LARUE & VIRGINIA 1512 BETHEL RIDGE RD SHARPSBURG, KY 40374

HARMON LYNN & JUDY 1779 LITTLE FLAT LEDFORD RD SHARPSBURG, KY 40374

THOMAS BRIAN DOUGLAS HOUSE THOMAS DONNA 2140 LITTLE FLAT LEDFORD RD SHARPSBURG, KY 40374

THOMAS BRIAN 2140 LITLE FLAT LEDFORD SHARPSBURG, KY 40374

HOUSE DONNA 2140 LITTLE FLAT LEDFORD RD SHARPSBURG, KY 40374

HOUSE DONNA 2170 LITTLE FLAT LEDFORD RD SHARPSBURG, KY 40374

RIDDLE CATLIN 2188 LITTLE FLAT LEDFORD RD SHARPSBURG, KY 40374

VICE MARVIN E 175 SCRUB GRASS RD CARLISLE, KY 40311

THOMAS BRIAN & LORIA 2140 LITTLE FLAT LEDFORD RD SHARPSBURG, KY 40374

STOLTZFUS CHRIST M & RACHEL S 1300 LONG LN PEMBROKE, KY 42266

OVINGTON ROBERT DAREN 1517 SHARP RD SHARPSBURG, KY 40374 OVINGTON ROBERT DAREN C/O ROBERT OVINGTON 1541 SHARP RD SHARPSBURG, KY 40374

GINN JEREMY & DUSKY 743 COYOTE RD SHARPSBURG, KY 40374

GRIMES SHIRLEY & ELAINE 37 SHILOH RD SHARPSBURG, KY 40374

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: Bethel / Chandler Road

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 312 Chandler Road, Sharpsburg, KY 40374 (38° 16' 01.03" North latitude, 83° 50' 48.69" West longitude). The proposed facility will include a 305-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 317-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 2020-00343 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

- Beginning at the Bath County Judge Executive's Office, located at 19 E. Main Street Owingsville, KY 40360, head east (toward N. Court Street / Johnstan Street) on E. Main Street and travel approximately 0.1 miles.
- 2. Turn left onto Suddith Street and travel approximately 0.2 miles.
- 3. Follow Suddith Street as it turns right and becomes E. High Street and travel approximately 0.1 miles.
- 4. Turn left onto KY-36 W and travel approximately 4.8 miles.
- 5. Turn right onto KY-1325 and travel approximately 7.6 miles.
- 6. Turn left onto KY-11 S and travel approximately 2.3 miles.
- 7. Turn right onto Cheyenne Road and travel approximately 233 feet.
- 8. Turn left onto Shiloh Road and travel approximately 417 feet.
- 9. Turn right onto Chandler Road and travel approximately 0.3 miles.
- 10. The site is located on the right at 312 Chandler Road, Sharpsburg, KY 40374.
- 11. The site coordinates are:
 - a. North 38 deg 16 min 01.03 sec
 - b. West 83 deg 50 min 48.69 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



z	OWNER	ADDRESS	PID	REF
i	AMOS & RUTH STOLTZFUS	675 CHANDLER RD SHARPSBURG, KY 40374	013-00-00-012,00	DB 236 PG 87

NOTE:

- 1. SEE SHT. C-1.1 FOR INFORMATION ON PROPERTIES #2 #10.
- PVA INFORMATION WAS OBTAINED ON 7/22/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
- THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
- 4. NOT FOR RECORDING OR PROPERTY TRANSFER.







PACE# MRUNGH7572

PROJECT NO. 15'361 CHECKED BY: DES

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



IT IS A MOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DESCRICTION OF A LICENSEE PROPESSIONAL EMONEER, TO ALTER THIS DOCUMENT

> 500' RADIUS & ADJOINER'S DRAWING

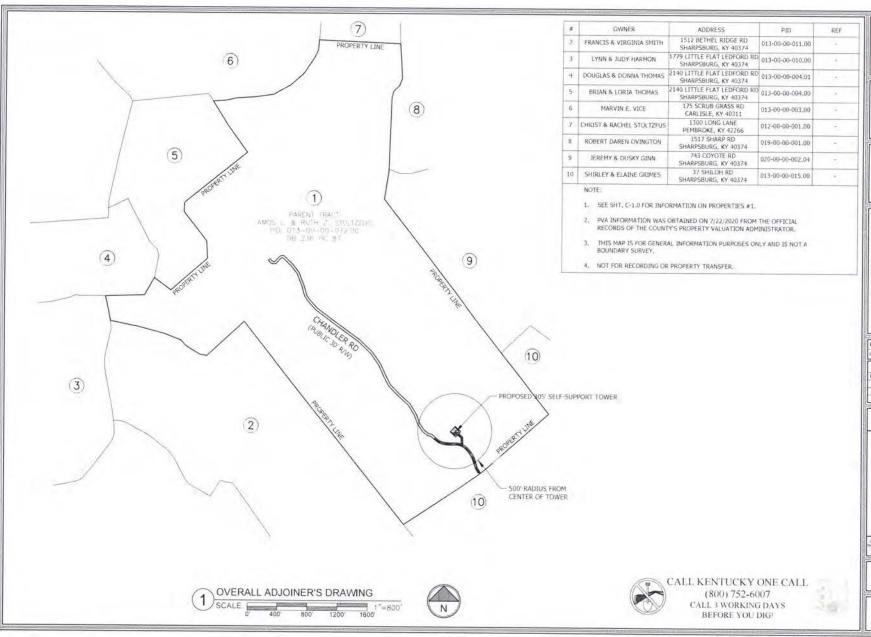
C-1.0





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











CHANDLER RD

PACE MRTNN 04732 PACE MRTNN 04732 PLE 10133CB 312 CHANDLIN RD SHARSHER, NA 10374 BATH COLVIN

PRO	HECT NO)	18736
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REY	DATE	DRWN	DESCRIPTION
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0.	9/29/20	OLS	ZONING DRAWINGS
11	10/14/20	MAS	ZONING DRAWINGS

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



OVERALL. ADJOINER'S DRAWING

SHEET NUMBER

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

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

RE: Notice of Proposal to Construct Wireless Communications Facility

Kentucky Public Service Commission Docket No. 2020-00343

Site Name: Bethel / Chandler Road

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 312 Chandler Road, Sharpsburg, KY 40374 (38° 16' 01.03" North latitude, 83° 50' 48.69" West longitude). The proposed facility will include a 305-foot tall tower, with an approximately 12-foot tall lightning arrestor attached at the top, for a total height of 317-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 2020-00343 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

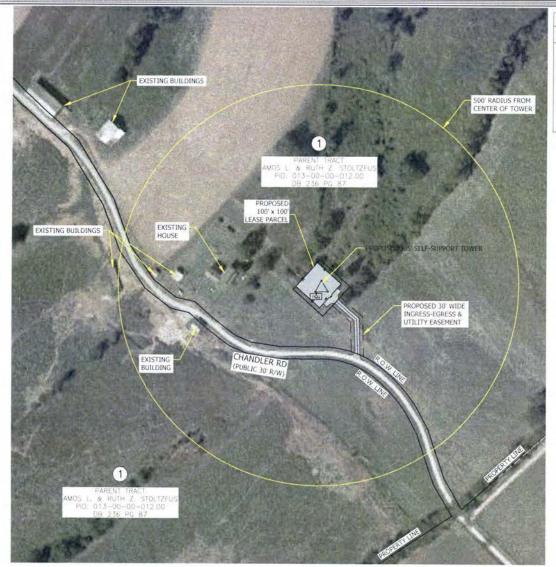
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- 3. Follow Suddith Street as it turns right and becomes E. High Street and travel approximately 0.1 miles.
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- 8. Turn left onto Shiloh Road and travel approximately 417 feet.
- 9. Turn right onto Chandler Road and travel approximately 0.3 miles.
- 10. The site is located on the right at 312 Chandler Road, Sharpsburg, KY 40374.
- 11. The site coordinates are:
 - a. North 38 deg 16 min 01.03 sec
 - b. West 83 deg 50 min 48.69 sec



Prepared by: Chris Shouse Pike Legal Group 1578 Highway 44 East, Suite 6 P.O. Box 396 Shepherdsville, KY 40165-3069

Telephone: 502-955-4400 or 800-516-4293



#	OWNER:	ADDRESS	PID	REF
1	AMOS & RUTH STOLTZFUS	675 CHANDLER RD SHARPSBURG, KY 40374	013-00-00-012.00	DB 236 PG 87

NOTE

- 1. SEE SHT, C-1.1 FOR INFORMATION ON PROPERTIES #2 #10.
- PVA INFORMATION WAS OBTAINED ON 7/22/2020 FROM THE OFFICIAL RECORDS OF THE COUNTY'S PROPERTY VALUATION ADMINISTRATOR.
- THIS MAP IS FOR GENERAL INFORMATION PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY.
- 4. NOT FOR RECORDING OR PROPERTY TRANSFER.







CHANDLER RD
1 v# 15147579
PACI# AIR INFORMATS29

PRO	HECT NO	(3.736)				
СН	CKED BY	DE				
ISSUED FOR						
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1	10/14/20	WAS	ZONING DRAWINGS			

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



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

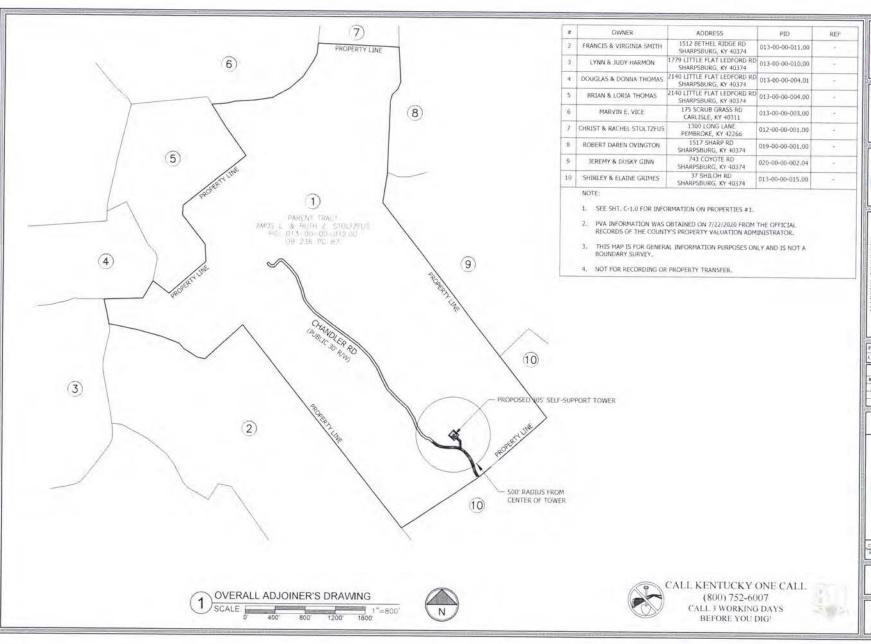
500' RADIUS & Adjoiner's Drawing

C-1.0



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









HARMONI

HARMON TOWERS CHANDLER RD

PROJECT NO. 11-30 ENGLAND BY A COLUMN BY A

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



T IS A MOLATION OF LAW FOR ANY POLISION, UNLESS BY ARE ACTING UNDER THE DIRECTION OF A LICENSIST PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT

> OVERALL ADJOINER'S DRAWING

C-1.1

EXHIBIT M COPY OF POSTED NOTICES AND NEWSPAPER NOTICE ADVERTISEMENT

SITE NAME: BETHEL / CHANDLER ROAD NOTICE SIGNS

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

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility 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 2020-00343 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 2020-00343 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: (606) 674-9994 VIA EMAIL: cecil@kynewsgroup.com

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

RE: Legal Notice Advertisement Site Name: Bethel / Chandler Road

Dear Bath County News Outlook:

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

NOTICE

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Uniti Towers LLC, a Delaware limited liability company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on 312 Chandler Road, Sharpsburg, KY 40374 (38° 16' 01.03" North latitude, 83° 50' 48.69" West longitude). You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00343 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