COMMONWEALTH OF KENTUCKY BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

SEP 06 2017

In the Matter of:	PUBLIC SERVICE
THE APPLICATION OF) COMMISSION
NEW CINGULAR WIRELESS PCS, LLC,)
A DELAWARE LIMITED LIABILITY COMPANY,)
D/B/A AT&T MOBILITY)
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC) CASE NO.: 2017-00368
CONVENIENCE AND NECESSITY TO CONSTRUCT)
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF GRAVES)
SITE NAME: SYMSONIA	

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

* * * * * * *

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility ("Applicant"), by counsel, pursuant to (i) KRS §§ 278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully submits this Application requesting issuance of a Certificate of Public Convenience and Necessity ("CPCN") from the Kentucky Public Service Commission ("PSC") to construct, maintain, and operate a Wireless Communications Facility ("WCF") to serve the customers of the Applicant with wireless communications services.

In support of this Application, Applicant respectfully provides and states the following information:

- 1. The complete name and address of the Applicant: New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility, having a local address of 601 West Chestnut Street, Louisville, Kentucky 40203.
- 2. Applicant proposes construction of an antenna tower for communications services, which is to be located in an area outside the jurisdiction of a planning commission, and Applicant submits this application to the PSC for a certificate of public convenience and necessity pursuant to KRS §§ 278.020(1), 278.040, 278.650, 278.665, and other statutory authority.
- 3. The Certificate of Authority filed with the Kentucky Secretary of State for the Applicant entity was attached to a prior application and is part of the case record for PSC case number 2017-00332 and is hereby incorporated by reference.
- 4. The Applicant operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Applicant's FCC licenses to provide wireless services are attached to this Application or described as part of **Exhibit A**, and the facility will be constructed and operated in accordance with applicable FCC regulations.
- 5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Applicant's services to an area currently not served or not adequately served by the Applicant by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. The WCF will provide a necessary link in the Applicant's communications network that is designed to meet the increasing demands

for wireless services in Kentucky's wireless communications service area. The WCF is an integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.

- 6. To address the above-described service needs, Applicant proposes to construct a WCF at 850 State Route 348 East, Symsonia, Kentucky (36°55'07.10" North latitude, 88°30'26.78" 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 Michael B. Reid pursuant to a Deed recorded at Deed Book 357, Page 682 in the office of the Graves County Clerk. The proposed WCF will consist of a 305-foot tall tower, with an approximately 15-foot tall lightning arrestor attached at the top, for a total height of 320-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Applicant's radio electronics equipment and appurtenant equipment. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as Exhibit B and Exhibit C.
- A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete is attached as Exhibit D.
- 8. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of the Applicant has also been included

as part of Exhibit B.

- 9. 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**.
- 10. Applicant has considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Applicant's antennas on an existing structure. When suitable towers or structures exist, Applicant attempts to co-locate on existing structures such as communications towers or other structures capable of supporting Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.
- 11. A copy of the Determination of No Hazard to Air Navigation issued by the Federal Aviation Administration ("FAA") is attached as **Exhibit E**.
- 12. A copy of the Kentucky Airport Zoning Commission ("KAZC") Conditional Approval to construct the tower is attached as **Exhibit F**.
- 13. 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.

- 14. 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.
- 15. Applicant, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit I**.
- 16. 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.
- 17. The Construction Manager for the proposed facility is Don Murdock and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibits B & C**.
- 18. 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.
- 19. **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.

- 20. Applicant has notified every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. Each notified property owner has been provided with a map of the location of the proposed construction, the PSC docket number for this application, the address of the PSC, and has been informed of his or her right to request intervention. A list of the notified property owners and a copy of the form of the notice sent by certified mail to each landowner are attached as **Exhibit J** and **Exhibit K**, respectively.
- 21. Applicant has notified the applicable County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the County Judge/Executive of his/her right to request intervention. A copy of this notice is attached as **Exhibit L**.
- 22. 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 filling of the Application, and a copy of the posted text is attached as **Exhibit M**. Notice of the location of the proposed facility has also been published in a newspaper of general circulation in the county in which the WCF is proposed to be located.
 - 23. The general area where the proposed facility is to be located is rural with

large parcels. No residential structures are located within a 500-foot radius of the proposed tower location.

- 24. The process that was used by the Applicant's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the Applicant. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit N**.
- 25. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area. In addition to expanding and improving voice and data service for AT&T mobile customers, this site will also provide wireless local loop ("WLL") broadband internet service in the subject area. As a participant in the FCC's Connect America Fund Phase II (CAF II) program, AT&T is aggressively deploying WLL service infrastructure to bring expanded internet access to residential and business customers in rural and other underserved

areas. WLL will support internet access at the high speeds required to use and enjoy the most current business, education and entertainment technologies. Broadband service via WLL will be delivered from the tower to a dedicated antenna located at the home or business receiving service and will support downloads at 10 Mbps and uploads at 1 Mbps.

- 26. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.
- 27. All responses and requests associated with this Application may be directed to:

David A. Pike
Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400

Telefax:

(502) 543-4410

Email:

dpike@pikelegal.com

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

Respectfully submitted,

David A. Pike

Pike Legal Group, PLLC

1578 Highway 44 East, Suite 6

P. O. Box 369

Shepherdsville, KY 40165-0369

Telephone: (502) 955-4400

Telefax:

(502) 543-4410

Email: dpike@pikelegal.com

Attorney for New Cingular Wireless PCS, LLC

d/b/a AT&T Mobility

LIST OF EXHIBITS

A - FCC License D	Documentation
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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

N - Copy of Radio Frequency Design Search Area

EXHIBIT A FCC LICENSE DOCUMENTATION

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

Longitude

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

Call Sign KNKN830	File Number
	Service Cellular
Market Numer CMA443	Channel Block A
Sub-Market	t Designator

Ground Elevation Structure Hgt to Tip Antenna Structure

FCC Registration Number (FRN): 0003291192

Market Name Kentucky 1 - Fulton

Grant Date	Effective Date	Expiration Date	Five Yr Build-Out Date	Print Date
08-30-2011	06-13-2017	10-01-2021		

Site Information:

Location Latitude

Address: SOUTH OF 521 MIDWAY ROAD (76098) City: MURRAY County: CALLOWAY CALLOWAY State: KY Construction Deadline: Antenna: 1 Azimuth (from true north) 0 45 90 135 180 225 270 315 Antenna Height AAT (meters) 94.300 98.100 103.900 91.600 77.400 92.600 89.800 92.8 Transmitting ERP (watts) 90.905 315.534 257.251 45.036 1.831 0.631 0.653 5.47 Antenna: 2 Azimuth (from true north) 0 45 90 135 180 225 270 315 Antenna Height AAT (meters) 94.300 98.100 103.900 91.600 77.400 92.600 89.800 92.8 Antenna: 3 Azimuth (from true north) 0 45 90 135 180 225 270 315 Antenna: 3 Azimuth (from true north) 0 45 90 135 180 225 270 315	4 36-32-58.2 N 088-1	9-52.1 W	(n	neters)	(1	meters) 15.9	, то тър	Registratio	
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Antenna Height AAT (meters) 94.300 98.100 103.900 91.600 77.400 92.600 89.800 92.8 Transmitting ERP (watts) 0.189 0.181 2.710 24.477 46.412 26.231 3.140 0.16 Antenna: 3 Azimuth (from true north) 0 45 90 135 180 225 270 315 Antenna Height AAT (meters) 94.300 98.100 103.900 91.600 77.400 92.600 89.800 92.8	Transmitting ERP (watts)	90.905	315.534	257.251	45.036	1.831	0.631	0.653	5.479
Transmitting ERP (watts) 0.189 0.181 2.710 24.477 46.412 26.231 3.140 0.16 Antenna: 3 Azimuth (from true north) 0 45 90 135 180 225 270 315 Antenna Height AAT (meters) 94.300 98.100 103.900 91.600 77.400 92.600 89.800 92.8	Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna: 3 Azimuth (from true north) 0 45 90 135 180 225 270 315 Antenna Height AAT (meters) 94.300 98.100 103.900 91.600 77.400 92.600 89.800 92.800	Antenna Height AAT (meters)	94.300	98.100	103.900	91.600	77.400	92.600	89.800	92.800
Antenna Height AAT (meters) 94.300 98.100 103.900 91.600 77.400 92.600 89.800 92.8	Transmitting ERP (watts)	0.189	0.181	2.710	24.477	46.412	26.231	3.140	0.165
70.100	Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315
Transmitting ERP (watts) 93.187 5.247 0.653 0.792 2.286 40.640 253.641 324	Antenna Height AAT (meters)	94.300	98.100	103.900	91.600	77.400	92.600	89.800	92.800
	Transmitting ERP (watts)	93.187	5.247	0.653	0.792	2.286	40,640	253.641	324.312

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: KNKN830 File Number: Print Date:

	Tite	rumber.						
Location Latitude Longit 7 36-40-48.5 N 088-59 Address: 368 US HIGHWAY 51 NOR	9-38.9 W	(m 12	ound Elev eters) 5.6		Structure Hg (meters) 97.5	t to Tip	Antenna St Registratio 1043413	
City: Clinton County: HICKMAN	State: K	- I leave a la l	truction D	eadline	:			
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99,500	101.100	87.000	99.800	107.400	111.400	116.100	103.500
Transmitting ERP (watts)	46.473	43.365	8.875	2.867	0.271	1.698	13.116	39.622
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.500	101.100	87.000	99.800	107.400	111.400	116.100	103.500
Fransmitting ERP (watts)	16.262	75.054	100.598	95.375	87.529	27.061	32.457	15.298
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.500	101.100	87.000	99.800	107.400	111.400	116.100	103.500
Fransmitting ERP (watts)	26.123	10.219	13.943	31.412	138.549	180.577	193.913	76.304
Location Latitude Longit 8 36-45-30.7 N 088-10	rude)-11.4 W	(m	round Elev neters) 66.1		Structure Hg (meters) 96.3	t to Tip	Antenna St Registratio	
Address: 771 Rudolph Road (76099) City: Hardin County: MARSHALL			struction		100.000		1010111	
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	130.300	111.500	104.000	127.20	00 98.400	106.100	109.000	115.300
Transmitting ERP (watts)	138.810	181.853	201.332	78.257	26.754	10.412	13.921	31.435
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	130.300	111.500	104.000	127.20	98.400	106.100	109.000	115.300
Transmitting ERP (watts)	0.495	0.767	13.331	103.93	33 243.934	88.607	9.081	2.358
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	130.300	111.500	104.000	127.20	00 98.400	106.100	109.000	115.300
Transmitting ERP (watts)	121.085	34.811	25.322	9.647	14.734	94.724	185.217	194.265



Call Sign: KNKN830	File Number:				Print Date:					
Location Latitude Longity 9 36-57-02.0 N 089-04 Address: 966 Westvaco Road (76102 City: WICKLIFFE County: BALLA	1-57.4 W	(m	round Elev neters) 9.6 Construct	3	Structure Hg meters) 35.1	t to Tip	Antenna Structure Registration No.			
	ALL DATE					-		506		
Antenna: 1 Azimuth (from true north)		45	90	135	180	225	270	315		
Antenna Height AAT (meters) Transmitting ERP (watts)	66.700	39.500	47.700	59.600	40.400	76.800	74.900	77.800		
	208.387	279.525	57.987	6.279	2.348	0.861	2.044	43.197		
Antenna: 2 Azimuth (from true north)		45	90	135	180	225	270	315		
Antenna Height AAT (meters)	66.700	39.500	47.700	59.600	40.400	76.800	74.900	77.800		
Transmitting ERP (watts)	13.096	122.483	310.652	139.984	16.567	3.121	0.637	1.151		
Antenna: 3 Azimuth (from true north)		45	90	135	180	225	270	315		
Antenna Height AAT (meters)	66.700	39.500	47.700	59.600	40.400	76.800	74.900	77.800		
Transmitting ERP (watts)	1.083	3.141	55.641	235.301	1 265.480	45.044	5.015	1.649		
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Address: 550 Powell Road (76108) City: FULTON County: HICKMAN Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Location Latitude Longin 15 36-38-43.9 N 088-28 Address: 1211 Bazzell Cemetery Road	0 54.600 54.186 0 54.600 37.483 tude 3-32.2 W	45 50.500 259.791 45 50.500 3.445	90 50.000 165.189 90 50.000 0.681 round Eleverters)	135 62.400 15.440 135 62.400 0.543	180 74.100 1.821 180 74.100 0.696 Structure Hg (meters)	225 82.600 0.520 225 82.600 23.278 t to Tip	270 70.400 0.538 270 70.400 173.429 Antenna Se Registratio	68.900 2.272 315 68.900 255.845		
Address: 550 Powell Road (76108) City: FULTON County: HICKMAN Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Location Latitude Longin 15 36-38-43.9 N 088-28 Address: 1211 Bazzell Cemetery Road City: Murray County: CALLOWAY	0 54.600 54.186 0 54.600 37.483 tude 8-32.2 W 1 (76104) Y State	45 50.500 259.791 45 50.500 3.445 Gr (m 17	90 50.000 165.189 90 50.000 0.681 round Elevaters) 71.9	135 62.400 15.440 135 62.400 0.543 vation S	180 74.100 1.821 180 74.100 0.696 Structure Hg (meters) 129.8	225 82.600 0.520 225 82.600 23.278 t to Tip	270 70.400 0.538 270 70.400 173.429 Antenna St Registratio 1210819	68.900 2.272 315 68.900 255.845 tructure in No.		
Address: 550 Powell Road (76108) City: FULTON County: HICKMAN Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Location Latitude Longin 15 36-38-43.9 N 088-28 Address: 1211 Bazzell Cemetery Road City: Murray County: CALLOWAY Antenna: 1 Azimuth (from true north)	0 54.600 54.186 0 54.600 37.483 tude 3-32.2 W 1 (76104) Y State:	45 50.500 259.791 45 50.500 3.445 Gr (m 17	90 50.000 165.189 90 50.000 0.681 round Eleveters) 71.9	135 62.400 15.440 135 62.400 0.543 vation \$\((\)	180 74.100 1.821 180 74.100 0.696 Structure Hg (meters) 129.8 ee: 10-17-201-	225 82.600 0.520 225 82.600 23.278 t to Tip	270 70.400 0.538 270 70.400 173.429 Antenna St Registration 1210819	68.900 2.272 315 68.900 255.845 tructure in No.		
Address: 550 Powell Road (76108) City: FULTON County: HICKMAN Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Location Latitude Longin 15 36-38-43.9 N 088-28 Address: 1211 Bazzell Cemetery Road City: Murray County: CALLOWAY	0 54.600 54.186 0 54.600 37.483 tude 8-32.2 W 1 (76104) Y State	45 50.500 259.791 45 50.500 3.445 Gr (m 17	90 50.000 165.189 90 50.000 0.681 round Elevaters) 71.9	135 62.400 15.440 135 62.400 0.543 vation S	180 74.100 1.821 180 74.100 0.696 Structure Hg (meters) 129.8 ee: 10-17-201-	225 82.600 0.520 225 82.600 23.278 t to Tip	270 70.400 0.538 270 70.400 173.429 Antenna St Registratio 1210819	68.900 2.272 315 68.900 255.84 tructure in No.		

Call Sign: KNKN830	File	Number:			Print Date:					
ELECTRON PROPERTY AND ADDRESS OF THE PROPERTY	8-32.2 W	(m 17	round Elev neters) 71.9	(Structure Hg (meters) 129.8	to Tip	Antenna St Registratio 1210819			
Address: 1211 Bazzell Cemetery Road City: Murray County: CALLOWA			onstruction	Deadlin	ne: 10-17-2014	1				
Antenna: 4 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters) Transmitting ERP (watts)	119.500 0.367	104.900 0.330	100.600 5.484	100.60 55.361		99.400 58.679	106.900 6.523	111.600 0.289		
Antenna: 5 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters) Transmitting ERP (watts)	119.500 92.571	104.900 5.224	100.600 0.656	100.60 0.800	0 101.500 2.278	99.400 41.111	106.900 254.363	111.600 324.895		
Location Latitude Longic 19 36-36-41.4 N 088-4	rude 7-03.9 W	(n	round Elev neters) 55.7		Structure Hg (meters) 98.4	to Tip	Antenna St Registratio			
Address: 13111 State Route 45 South			uction Dea				12.0.75			
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters)	113.900	104.300	100.500	100.10	0 118.200	120.600	142.500	118.400		
Transmitting ERP (watts)	75.324	249.922	174.975	24.513	3.151	0.522	1.154	5.702		
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters)	113.900	104.300	100.500	100.10	0 118.200	120.600	142.500	118.400		
Transmitting ERP (watts)	0.327	2.041	16.058	48.846	56.920	53.682	10.688	3.498		
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters) Transmitting ERP (watts)	113.900 52.956	104.300 5.694	100.500 1.994	100.10 0.772	0 118.200 1.841	120.600 39.724	142.500 185.306	118.400 249.412		
Location Latitude Longic 21 37-01-59.6 N 088-53	tude 5-53.8 W	(n	round Elev neters) 37.2		Structure Hg (meters)	t to Tip	Antenna St Registratio			
Address: HIGHWAY 358 SOUTH (City: LA CENTER County: BALL	76094)	ate: KY			81.7 dline: 10-17-2	2014	1001334			
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters) Transmitting ERP (watts)	89.800 112.389	81.800 322.213	70.500 224.476	81.800 23.789	84.100	79.400 0.660	91.200 0. 706	97.100 9.624		

Call Sign: KNKN830	File Number:				Print Date:					
Location Latitude Longit 21 37-01-59.6 N 088-55 Address: HIGHWAY 358 SOUTH (7)	5-53.8 W	(m	round Elev neters) 37.2		Structure Hgt (meters) 81.7	to Tip	Antenna St Registration 1061534			
City: LA CENTER County: BALL	ARD St	ate: KY	Construc	tion Dea	adline: 10-17-2	014				
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters)	89.800	81.800	70.500	81.800	84.100	79.400	91.200	97.100		
Transmitting ERP (watts)	0.245	0.296	9.047	63.327	119.917	49.080	4.913	0.289		
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters)	89.800	81.800	70.500	81.800	84.100	79.400	91.200	97.100		
Transmitting ERP (watts)	61.077	6.560	2.321	0.892	2.139	46.212	218.148	287.895		
Location Latitude Longit 22 37-02-00.0 N 088-23	tude 2-10.0 W	(m	round Elev neters) 05.5		Structure Hgt (meters) 106.7	to Tip	Antenna St Registratio 1040303	3 (1) (2) (3) (3) (3) (3)		
Address: 641 GARY JOHNSON ROA		The state of the s								
City: CALVERT CITY County: M.	ARSHALI	L State:	KY Cor	nstructio	on Deadline: 1	0-17-201	4			
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters)	86.900	86.100	95.100	91.700	77.400	93.100	107.000	101.600		
Transmitting ERP (watts)	19.290	27.291	31.707	11.704	2.348	0.517	1.589	4.904		
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters)	86.900	86.100	95.100	91.700	77.400	93.100	107.000	101.600		
Transmitting ERP (watts)	0.103	0.173	3.333	26,500	50.592	22.618	2.382	0.161		
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters)	86.900	86.100	95.100	91.700	77.400	93.100	107.000	101.600		
Transmitting ERP (watts)	51.334	5.515	1.916	0.726	1.742	37.531	178.683	239.865		
Location Latitude Longie	tude	100	round Elev neters)	ation	Structure Hgt (meters)	to Tip	Antenna St Registratio			
	2-19.4 W	1.3	32.3		94.5		1223751			
Address: 3018 Barge Island Road (76	2			n						
City: Benton County: MARSHALL	State:	KY Co	nstruction	Deadlin	ne: 10-17-2014					
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315		
Antenna Height AAT (meters)	100.900	74.800	82.900	90.300	83.200	75.100	82.700	89.800		
Transmitting ERP (watts)	64.257	218.461	153.987	21.410	2.758	0.447	1.004	4.863		

Call Sign: KNKN830	File Number:				Print Date:						
Location Latitude Longi 24 36-52-41.6 N 088-1 Address: 3018 Barge Island Road (7	2-19.4 W	(m	round Elev neters) 52.3	(1	structure Hgt meters) 14.5	to Tip	Antenna St Registratio 1223751				
City: Benton County: MARSHALI		KY Cor	nstruction	Deadline	: 10-17-2014						
Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 100.900 0.516	45 74.800 0.812	90 82.900 13.931	135 90.300 109.389	180 83.200 254.428	225 75.100 92.990	270 82.700 9.535	315 89.800 2.468			
Antenna: 3 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 100,900 126,395	45 74.800 36.677	90 82.900 26.446	90.300 10.150	180 83.200 15.357	225 75.100 99.601	270 82.700 194.625	315 89.800 203.444			
Location Latitude Longi 26 37-06-39.7 N 088-5 Address: 2967 BANDANA ROAD (7-32.4 W	(m	round Elev neters) 8.3	(1	Structure Hgt meters) 66.6	to Tip	Antenna St Registratio 1244919				
City: LA CENTER County: BALL	The state of the s	ate: KY	Construc	tion Deac	dline: 10-17-2	014					
Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 3 Azimuth (from true north) Antenna Height AAT (meters)	98.000 40.898 0 98.000 0.519	45 96.700 65.024 45 96.700 25.920 45	90 81.000 70.503 90 81.000 110.565 90	135 73.300 22.298 135 73.300 221,603	180	225 89.200 0.957 225 89.200 214.122 225	270	315 92.500 9.032 315 92.500 63.085 315			
Transmitting ERP (watts) Location Latitude Longi	37.744	96.700 5.696	81.000 3.296 round Elev	73.300 2.226	74.700 3.676 Structure Hgt	89.200 28.040	104.100 60.416 Antenna St	92.500 72.478			
27	1-13.9 W (76123)	(m	eters) (4.0	(1 9	meters) 02.7 adline: 10-17-		Registratio 1244912				
Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 90.300 106.670	45 82.200 236.325	90 73.600 87.322	135 91.100 9.136	180 97.500 2.326	225 88.700 0.497	270 101.500 0.777	315 87.500 13.791			

Call Sign: KNKN830	File Number:				Print Date:					
Address: 461 COUNTY ROAD 1235	1-13.9 W (76123)	(m 11	round Elev neters) 4.0	(1 9)	itructure Hgt meters) 2.7		Antenna St Registratio 1244912			
City: ARLINGTON County: CAR	LISLE S	State: KY	Constru	ction Dea	dline: 10-17-	2014				
Antenna: 2 Azimuth (from true north Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 3 Azimuth (from true north Antenna Height AAT (meters)	90.300 3.771	45 82.200 6.725 45 82.200	90 73.600 70.667 90 73.600	135 91.100 194.932 135 91.100	97.500 224.510 180 97.500	225 88.700 93.220 225 88.700	270 101.500 19.059 270 101.500	315 87.500 10.392 315 87.500		
Transmitting ERP (watts)	17.405	2.960	0.738	2.081	7.101	31.894	50.141	56.076		
Location Latitude Long 28 36-32-49.7 N 088-0 Address: 10475 STATE ROAD 121 City: NEW CONCORD County: C	9-16.0 W (76124)	(m 12	round Elev neters) 28.6 :: KY Co	(1 7	structure Hg meters) 7.7 on Deadline:		Antenna St Registratio 1245399			
And and a land of the state of		- 3	1		100		2.50			
Antenna: I Azimuth (from true north)		45	90	135	180	225	270	315		
Antenna Height AAT (meters) Transmitting ERP (watts)	65.300	82.000	68.100	72.000	52.100	54.800	45.900	46.700		
	103.508	96.740	121.896	67.061	24.395	17.896	22.126	33.816		
Antenna: 2 Azimuth (from true north		45	90	135	180	225	270	315		
Antenna Height AAT (meters)	65.300	82.000	68.100	72.000	52.100	54.800	45.900	46.700		
Transmitting ERP (watts)	0.291	1.775	14.241	42.943	50.803	47.977	9.728	3.207		
Antenna: 3 Azimuth (from true north		45	90	135	180	225	270	315		
Antenna Height AAT (meters)	65.300	82.000	68.100	72.000	52.100	54.800	45.900	46.700		
Transmitting ERP (watts)	131.978	37.385	27.253	10.383	15.864	101.405	199.819	210.869		
Location Latitude Long 29 36-33-30.0 N 088-3 Address: 2539 State Rte 94E (10072)	5-22.0 W	(m	round Elev neters) 72.2	(1	tructure Hg meters) 98.7	t to Tip	Antenna Se Registratio 1041880			
City: Sedalia County: GRAVES	State: KY	Constr	uction De	adline: 10)-17-2014					
Antonno 2 Animaly (6			00		100	222	270	215		
Antenna: 3 Azimuth (from true north Antenna Height AAT (meters)) 0	45	90	135	180	225	270	315		
	00 000	70.000	00 100		105 200	112 200	06.100	00 200		
Transmitting ERP (watts)	88.800 118.798	79.000 346.026	80.100 241.383	102.800 25.538	107.300 2.032	113.300 0.686	86.100 0.737	90.300 10.121		

Print Date:

Location Latitude Longid 29 36-33-30.0 N 088-35 Address: 2539 State Rte 94E (100720)	5-22.0 W	(m	round Elev neters) 72.2	(Structure Hg (meters) 98.7	t to Tip	Antenna St Registratio 1041880	
	State: KY	Constr	uction De	adline: 10	0-17-2014			
Antenna: 4 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	88.800 0.101	79.000 0.148	80.100 0.723	102.800 2.670	0 107.300 2.039	113.300 2.501	86.100 0.544	90.300 0.100
Antenna: 5 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	88.800 39.858	79.000 3.632	80.100 0.525	102.800 0.681	0 107.300 3.083	113.300 30.083	86.100 155.327	90.300 190.084
Antenna: 6 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	88.800 116.175	79.000 337.516	80.100 238.141	102.800 25.039		113.300 0.669	86.100 0.719	90.300 9.904
Antenna: 7 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	88.800 0.100	79.000 0.100	80.100 0.1 08	102.800 1.032	0 107.300 1.990	113.300 0.939	86.100 0.099	90.300 0.100
Antenna: 8 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	88.800 39.129	79.000 3.555	80.100 0.510	102.800 0.662	0 107.300 3.020	113.300 29.428	86.100 154.053	90.300 187.149
Location Latitude Longit 30 36-38-26.2 N 088-16 Address: 1431 Van Cleave Road City: MURRAY County: CALLOW	5-00.1 W	(m	round Elevaters)	9	Structure Hg (meters) 90.8 dline: 03-19-2		Antenna St Registratio 1030663	THE PERSON WAS A PROPERTY OF THE PARTY OF TH
Antenna: 1 Azimuth (from true north)		45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	95.400 99.973	94.000 347.694	102.000 284.408	97.700 49.684	75.000 2.009	79.400 0.693	73.500 0.722	84.000 6.047
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	95.400 0.658	94.000 0.593	102.000 9.481	97.700 98.900	75.000 202.269	79.400 103.412	73.500 11.469	84.000 0.466
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters) Transmitting ERP (watts)	95.400 102.904	94.000 5.789	102.000 0.721	97.700 0.870	75.000 2.492	79.400 44.530	73.500 280.630	84.000 358.642

Call Sign: KNKN830 File Number: Print Date:

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Location Latitude Longit 31 37-01-59.2 N 088-32 Address: 311 PUGH ROAD (82847)	2-46.3 W	(m	round Elev neters) 14.9		ructure Hg neters) 9.7	t to Tip	Antenna St Registratio	
City: PADUCAH County: MCCRA		State: KY	Constr	uction Dea	dline: 10-1	7-2014		
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	56.200	65.400	62.700	44.400	60.400	47.900	41.900	64.900
Transmitting ERP (watts)	138.239	395.682	273.086	31.636	2.365	0.791	0.870	14.102
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	56.200	65.400	62.700	44.400	60.400	47.900	41.900	64.900
Transmitting ERP (watts)	0.870	0.945	31.495	230.326	421.829	159.645	11.045	1.137
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	56.200	65.400	62.700	44.400	60.400	47.900	41.900	64.900
Transmitting ERP (watts)	1.780	0.299	0.112	0.233	0.252	1.208	2.817	2.371
Location Latitude Longit 32 36-59-09.8 N 088-21	ude -18.6 W	(m	round Elev eters) 8.2	(m	ructure Hg neters)	t to Tip	Antenna St Registratio	
Address: 1285 US HIGHWAY 95 (9) City: CALVERT CITY County: MA	5. LOUS / C. M.			95 struction	1.2	0-17-201	1222232	
City: CALVERT CITY County: MA	ARSHALI	L State:	KY Cor	istruction	Deadline: 1		4	315
City: CALVERT CITY County: MA Antenna: 1 Azimuth (from true north)	ARSHALI	State:	KY Cor	135	Deadline: 1	225	270	315 67.500
City: CALVERT CITY County: MA Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters)	ARSHALI 0	L State:	KY Cor	istruction	Deadline: 1		4	
City: CALVERT CITY County: MA Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 57.000 114.888	State: 45 62.900	90 62.000	135 50.300	Deadline: 1 180 45.400	225 47.200	270 53.800	67.500
City: CALVERT CITY County: MA Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north)	0 57.000 114.888	45 62.900 331.792	90 62.000 230.236	135 50.300 24.563	Deadline: 1 180 45.400 1.953	225 47.200 0.671	270 53.800 0.707	67.500 9.579 315
City: CALVERT CITY County: MA Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters)	0 57.000 114.888 0	45 62.900 331.792	90 62.000 230.236 90	135 50.300 24.563 135	Deadline: 1 180 45.400 1.953 180	225 47.200 0.671 225	270 53.800 0.707 270 53.800	67.500 9.579 315
City: CALVERT CITY County: MA Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	0 57.000 114.888 0 57.000	45 62.900 331.792 45 62.900	90 62.000 230.236 90 62.000	135 50.300 24.563 135 50.300	180 45.400 1.953 180 45.400	225 47.200 0.671 225 47.200	270 53.800 0.707 270 53.800	67.500 9.579 315 67.500
Address: 1285 US HIGHWAY 95 (9) City: CALVERT CITY County: MA Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 3 Azimuth (from true north) Antenna: 4 Azimuth (from true north) Antenna: 5 Azimuth (from true north) Antenna Height AAT (meters)	0 57.000 114.888 0 57.000 0.719	45 62.900 331.792 45 62.900 1.299	90 62.000 230.236 90 62.000 23.038	135 50.300 24.563 135 50.300 188.836	180 45.400 1.953 180 45.400 348.890	225 47.200 0.671 225 47.200 135.248	270 53.800 0.707 270 53.800 7.214	67.500 9.579 315 67.500 1.404



Call Sign: KNKN830 File Number: Print Date:

Location Latitude Longit 33 37-03-27.6 N 088-39 Address: 4147 Alben Barkley Drive	9-35.9 W	(m	ound Elev eters) 6.5	(1	Structure Hgt meters) 56.4	to Tip	Antenna St Registratio 1261390	
City: Paducah County: MCCRACK		te: KY	Constructi	on Deadl	line: 10-17-20)14		
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.600	77.100	83.500	78.100	49.200	54.800	60.700	73.700
Transmitting ERP (watts)	63.658	183.190	130.542	23.950	3.395	0.525	0.398	6.814
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.600	77.100	83.500	78.100	49.200	54.800	60.700	73.700
Transmitting ERP (watts)	0.323	0.908	12.412	76.128	155.305	62.287	7.839	1.323
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.600	77.100	83.500	78.100	49.200	54.800	60.700	73.700
and the first terms of the second						20.042	146 763	102 220
Transmitting ERP (watts)	47.164	5.084	1.161	0.385	3.481	30.943	146.763	183.338
Location Latitude Longit 34 36-36-12.1 N 089-01 Address: 5151 State Route 1529 (115	tude 1-51.1 W 5776)	Gr (m 10	round Elev neters) 11.2	vation S	Structure Hg meters) 60.7		Antenna St Registratio	ructure
Location Latitude Longit 34 36-36-12.1 N 089-01 Address: 5151 State Route 1529 (115 City: Clinton County: HICKMAN	rude 1-51.1 W 5776) State: K	Gr (m 10	round Elev neters) 11.2	vation S	Structure Hg meters)		Antenna St	ructure
Location Latitude Longit 34 36-36-12.1 N 089-01 Address: 5151 State Route 1529 (115 City: Clinton County: HICKMAN Antenna: 1 Azimuth (from true north)	tude 1-51.1 W 5776) State: K	Gr (m 10	round Elev neters) 11.2 struction D	vation S	Structure Hg meters) 60.7		Antenna St	ructure
Location Latitude Longit 34 36-36-12.1 N 089-01 Address: 5151 State Route 1529 (115 City: Clinton County: HICKMAN Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters)	1-51.1 W 5776) State: K 0 52.300	Gi (m 10 Y Cons 45 37.600	round Elevaters) 11.2 struction D 90 51.800	vation S (6 6 Deadline:	Structure Hgr meters) 50.7 10-17-2014 180 43.300	225 54.500	Antenna St Registratio	ructure n No. 315 62.300
Location Latitude Longit 34 36-36-12.1 N 089-01 Address: 5151 State Route 1529 (115 City: Clinton County: HICKMAN Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters)	tude 1-51.1 W 5776) State: K	Gi (m 10 Y Cons	round Elev neters) 11.2 struction D	vation S () 6 0eadline:	Structure Hgr meters) 50.7 10-17-2014 180	t to Tip	Antenna St Registratio	ructure n No.
Location Latitude Longit 34 36-36-12.1 N 089-01 Address: 5151 State Route 1529 (115 City: Clinton County: HICKMAN Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts)	tude 1-51.1 W 5776) State: K 0 52.300 278.250	Gi (m 10 Y Cons 45 37.600	round Elevaters) 11.2 struction D 90 51.800	vation S (6 6 Deadline:	Structure Hgr meters) 50.7 10-17-2014 180 43.300	225 54.500	Antenna St Registratio	ructure n No. 315 62.300
Location Latitude Longit 34 36-36-12.1 N 089-01 Address: 5151 State Route 1529 (115 City: Clinton County: HICKMAN Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north)	tude 1-51.1 W 5776) State: K 0 52.300 278.250	Gi (m 10 Y Cons 45 37.600 103.782	ound Elevieters) 11.2 struction D 90 51.800 10.449	vation S (0 6 9eadline: 135 46.600 2.715	Structure Hgr meters) 50.7 10-17-2014 180 43.300 0.593	225 54.500 0.966	Antenna St Registratio 270 71.100 15.867	ructure n No. 315 62.300 122.648
Location Latitude Longit 34 36-36-12.1 N 089-01 Address: 5151 State Route 1529 (115 City: Clinton County: HICKMAN Antenna: 1 Azimuth (from true north) Antenna Height AAT (meters) Transmitting ERP (watts) Antenna: 2 Azimuth (from true north) Antenna Height AAT (meters)	tude 1-51.1 W 5776) State: K 0 52.300 278.250 0	Gr (m 10 2Y Cons 45 37.600 103.782 45	ound Elevaters) 11.2 struction D 90 51.800 10.449 90	vation S (6 6 0eadline: 135 46.600 2.715 135	8tructure Hgr meters) 50.7 10-17-2014 180 43.300 0.593 180 43.300	225 54.500 0.966 225	270 71.100 15.867 270	315 62.300 122.648
Location Latitude Longit 34 36-36-12.1 N 089-01 Address: 5151 State Route 1529 (115 City: Clinton County: HICKMAN	tude 3-51.1 W 5776) State: K 0 52.300 278.250 0 52.300 7.844	Gi (m 10 Y Cons 45 37.600 103.782 45 37.600	round Elevaters) 11.2 struction D 90 51.800 10.449 90 51.800	vation S (0 6 eadline: 135 46.600 2.715 135 46.600	8tructure Hgr meters) 50.7 10-17-2014 180 43.300 0.593 180 43.300	225 54.500 0.966 225 54.500	270 71.100 15.867 270 71.100	315 62.300 122.648 315 62.300

Call Sign: KNKN830 File Number: Print Date:

Location Latitude Longi	tude		Ground Elev (meters)		Structure Hg (meters)	t to Tip	Antenna St Registratio	
35 37-00-56.6 N 088-4	3-49.8 W		143.3		71.6		1261050	
Address: 2136 Mayfield Metropolis R	oad (109	666)						
City: Paducah County: MCCRACH	CEN Sta	te: KY	Constructi	ion Dead	lline: 10-17-2	014		
Antenna: 1 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105,700	96.700	95.000	75.800	73.800	88.800	68.000	82.900
Transmitting ERP (watts)	156.876	63.244	5.131	0.692	0.325	0.405	10.985	82.231
Antenna: 2 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.700	96.700	95.000	75.800	73.800	88.800	68.000	82.900
Transmitting ERP (watts)	3.414	33,471	169.860	202.69	4 40.839	2.592	0.626	0.446
Antenna: 3 Azimuth (from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	105.700	96.700	95.000	75.800	73.800	88.800	68.000	82.900
Transmitting ERP (watts)	1.525	0.525	0.550	7.646	91.503	257.113	180.615	19.227

Control Points: Control Pt. No. 1

Address: 1650 Lyndon Farms Court

City: LOUISVILLE County: State: KY Telephone Number: (502)332-4700

Waivers/Conditions:

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

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

REFERENCE COPY

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

Call Sign WPSJ971	File Number
Radio	Service
CW - PCS	Broadband

FCC Registration Number (FRN): 0003291192

Grant Date 06-03-2011	Effective Date 06-14-2017	Expiration Date 05-29-2021	Print Date
Market Number BTA339	Chani	nel Block C	Sub-Market Designator
	A CONTRACTOR	t Name y-Mayfield, KY	
st Build-out Date 05-29-2006	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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

Conditions:

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

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.

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Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

Call Sign KNLH653	File Number
Radio	Service
CW - PCS	Broadband

FCC Registration Number (FRN): 0003291192

Grant Date 04-11-2017	Effective Date 06-14-2017	Expiration Date 04-28-2027	Print Date
Market Number BTA339	Chan	nel Block F	Sub-Market Designator
		t Name y-Mayfield, KY	
1st Build-out Date 04-28-2002	2nd Build-out Date	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

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

Conditions:

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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: KNLH653 File Number: Print Date:

Grant conditioned upon consummation of the assignment of license to Banana Communications, LLC within 180 days of June 9, 2008, per Memorandum Opinion and Order, DA 08-1380, released June 9, 2008.

EXHIBIT B

SITE DEVELOPMENT PLAN:

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



SITE NAME:

SYMSONIA

SITE NUMBER:

KYL03168

PROPOSED RAW LAND SITE WITH PROPOSED 305' SELF-SUPPORT **TOWER WITH A 15' LIGHTNING ARRESTOR AND INSTALLATION** OF A 12'-0" x 12'-0" CONCRETE SHELTER AND GENERATOR



DIRECTIONS

FPOM 101 E SOUTH ST, MAYFIELD, KY 42066

- DEPART E SOUTH ST TOWARD US 45 / S 7TH ST 49 FT
- TURN RIGHT ONTO US-45 / S 7TH ST 358 FT
- TURN RIGHT ONTO KY-58 / E BROADWAY ST 2.6 MI TURN LEFT ONTO KY-131 12.9 MI, 16 MIN
- TURN RIGHT ONTO KY-348 0.8 MI
- ARRIVE AT 850 STATE ROUTE 348 EAST

PROJECT SCOPE OF WORK

ZONING DRAWINGS FOR: CONSTRUCTION OF A PROPOSED UNMANNED TELECOMMUNICATIONS SITE WORK: PROPOSED TOWER, UNMANNED EQJIPMENT SHELTER AND

GENERATOR ON A CONCRETE FOUNDATIONS, AND UTILITY

COUNTY:

SITE ADDRESS:

SYMSONIA, KY 42082

APPLICANT.

60' WEST CHESTNUT ST.

DRAWING INDEX

T-1 TITLE SHEET & PROJECT INFORMATION

B-1 SITE SURVEY

B-2 500' RADUS & ABUTTER'S MAP

C-1 ENLARGED COMPOUND LAYOUT

CONTACT INFORMATION

BUILDING CODES AND STANDARDS CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE

AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL

COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR

Know what's below.

Call before you dig.

NSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS IEEE-81,

ANSI TI 311, FOR TELECOM - DC POWER SYSTEMS - TELECOM,

TELECOMMUN CATIONS INDUSTRY ASSOCIATION TIA-222 STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND
SUPPORTING STRUCTURES TIA 601

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

* * * CAUTION * * *

FOR EMERGENCIES CALL: 911

THE LITLITIES SHOWN MEREON ARE FOR THE CONTRACTOR'S CONVENIENCE ON THERE MAY BE OTHER LITLITIES NOT SHOWN ON THESE PLANS. THE ENGINEER ASSLIKES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE TILD CONTRACTOR'S RESPONSIBILITY TO VERRY ALL UTLITIES BY THE CONTRACTOR SHALL BE ANDREAD OF THE SOME RESPONSIBILITY TO VERRY ALL UTLITIES BY THE CONTRACTOR SHALL BE THE SOME RESPONSIBILITY OF THE CONTRACTOR.

C-2 TOWER ELEVATION

FIRE DEPARTMENT: SYMSONIA FIRE DEPARTMENT PHONE: 270-851-3800 POLICE DEPARTMENT:

PHONE: 270-527-3126

HONE 270-898-6967

ELEP ICHE COMPANY.

HONE: 855-293-7676

FOLLOWING STANDARDS:

TELECOMMUNICATIONS

EEE 1100, IEEE C62 41

2014 NEC

ENVIRONMENTA PROTECTION

2014 KENTUCKY BUILDING CODE

UR SDICT ON FOR THE LOCATION.

AMERICAN CONCRETE NSTITUTE 318

T&T

BENTON CITY POLICE DEPARTMENT







ZONING DRAWINGS NOT FOR CONSTRUCTION

DRAWN BY CHECKED BY:

REV	DATE	DESCRIPTION
0	05/25/2017	SSUED FOR ZONING
D	08/31/2017	ISSUED FOR ZONING
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
		*



ENG. PERMIT # 4363

13800773 SITE# KYL03168 SITE NAME: SYMSONIA SITE ADDRESS: 850 STATE ROUTE 348 EAST SYMSONIA, KY 42082

> **TITLE SHEET & PROJECT INFORMATION**

> > SHEET NUMBER

T-1

PROJECT INFORMATION

GRAVES

850 STATE ROUTE 348 EAST

NEW CINGULAR WIRELESS PCS, LLC A DELAWARE LIMITED LIABIL TY COMPANY, D/B/A AT&T MGBILITY

LOUISVILLE, KY 40203

LATITUDE: LONGITUDE: 36' 55' 07 10" -38' 30' 26.78"

PROPOSED LEASE AREA
ALL THAT TRACT OR PARCEL OF LAND LYING IN THE COUNTY OF GRAVES STATE OF KENTUCKY
CONSISTING OF A 100 FEET BY 100 PEET LEASE AREA COMMENCING AT A FOUND FENCE POST THAT
IS 345 FEET NORTHERLY OF THE INTERSECTION OF (KY348) SYMSONIA HWY AND HAM ROAD MORE
PARTICULARLY DESCRIBED AS FOLLOWS

THENCE NORTH 68 DEGREES 40 MINUTES 47 SECONDS EAST A DISTANCE OF 515 36 FEET TO THE

POINT OF BEGINNING. THENCE NORTH 00 DEGREES 08 MINUTES 29 SECONDS EAST, A DISTANCE OF 100 00 FEET. THENCE SOUTH 49 DEGREES 51 MINUTES 31 SECONDS EAST A DISTANCE OF 100.00 FEET THENCE SOUTH 00 DEGREES 08 MINUTES 23 SECONDS WEST A DISTANCE OF 100 00 FEET THENCE NORTH 89 DEGREES 51 MINUTES 31 SECONDS WEST A DISTANCE OF 100 00 FEET TO THE POINT OF BEGINNING

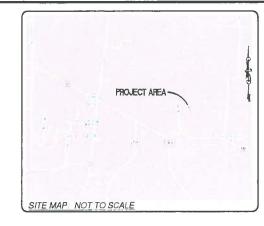
10 000 SQUARE FEET OR 0 2295 ACRES MORE OR LESS

PROPOSED ACCESS & UTILITY EASEMENT
ALL THAT TRACT OR PARCEL OF LAND LYING IN THE COUNTY OF GRAVES STATE OF KENTUCKY
CONSISTING OF A 25 FEET WIDE ACCESS AND UTILITY EASEMENT COMMENCING AT A FOUND FENCE
POST THAT IS 385 FEET NORTHERLY OF THE INTERSECTION OF (KY348) SYMSONIA HWY AND HAM
ROAD MORE PARTICULARLY DESCRIBED AS FOLLOWS

THENCE NORTH 68 DEGREES 40 MINUTES 47 SECONDS EAST A DISTANCE OF 515 36 FEET
THENCE NORTH 00 DEGREES 08 MINUTES 44 SECONDS EAST A DISTANCE OF 87 50 FEET TO THE POINT
OF BEGINNING OF A 25 FEET MIDE ACCESS AND UTILITY EASEMENT LYING 12 50 FEET ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE

THENCE NORTH 83 DEGREES 25 MINUTES 47 SECONDS WEST A DISTANCE OF 116 77 FEET THENCE SOUTH 89 DEGREES 12 MINUTES 53 SECONDS WEST A DISTANCE OF 154 36 FEET THENCE NORTH 89 DEGREES 32 MINUTES 01 SECONDS WEST A DISTANCE OF 230 54 FEET TO THE

PARCEL ID: 146.00.00.026.00 OWNER REID MICHAEL B DB 357/682 CENTER OF SELF SUPPORT TOWER POSITION OF GEODETIC COORDINATES POWER POLE FENCE -POT ACCESS & UTLITY EASEMENT N89"32"01"W 589"51"31"E N83°25'47'W 100.00 116.77 HAM POB ACCESS & UTILITY EASEMENT GATE N89°51'31"W 100,00 POB LEASE PARCEL ID: 146.00.00.026.01 OWNER:MCGREGOR BRAD & VICKIE DB 403/541 EXISTING STRUCTURE FENCE CORNER (SHED) PARCEL ID: 146.00.00.027.00 OWNER MCGREGOR BRAD & VICKIE DB 403/541



BENCHMARK

ELEVATION ESTABLISHED FROM GPE OBSERVATIONS CONSTRAINED TO OPUE SOLUTIONS, APPLYING GEOID 1ZA SEPARATIONS NAVDER DATUM.

BASIS OF BEARINGS

BEARINGS SHOWED HEREON ARE BASED UPON U.S. STATE PLANE NADES COORDINATE SYSTEM KENTUCKY SINGLE ZONE US FOOT, DETERMINED BY GPS CESSERVATIONS OVPLETED ON 3.31.17

UTILITY NOTES

SUPPLYOR DOES NOT GUARANTEE THAT ALL UTILITIES ARE SHOWN OR THER LOCATIONS IT IS THE PERFONSIBILITY OF THE CONTRACTOR AND DEVELOPER TO CONTACT LOCAL BY AND ANY OTHER AND VED AGENCES TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION REMOVA, RELOCATION AND/ DR REPLAMEMENT IS THE RESPONSIBILITY OF THE CONTRACTOR

SURVEYOR NOTES

NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED TO DETERMINE ANY DEFECTS AND/UR AMBQUITES IN THE TITLE OF THE PARENT PARCEL

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

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

THIS ELEVEY IS NOT INTENDED FOR LAND TRANSFER

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

THIS SURVEY PLAN WAS PERFORMED UNDER THE AUTHORITY THIS SURVEY PLAN WAS PERFORMED UNDER THE ALTHORITY OF KENTLOCKY REVISED STATUTES (201 KAR 18, 150), AND IS NOT TO BE CONSIDERED A GENERAL PROPERTY BOUNDARY SURVEY AS DEFINED WHI PERFURE REVISED STATUES IMMENSIONS (F. SHOWN) ALONG THE PERMETER OF THE LANDOWNER'S PROPERTY ARE PROVIDED MORE THIS SURVEYOR'S SCOPE OF SERVICES WITH A TAT AND ARE TO BE CONSIDERED FOR REFERENCE ON Y. THE EXACT LOCATION OF THE LANDOWNER'S PROPERTY MAY DIFFER UPON THE PREPARATION OF A FULL BOUNDARY SURVEY IN ACCORDANCE WITH THE REQUIREMENTS ESTABLISHED BY THE STATE OF KENTUCKY

THE SURVEY WAS PERFORMED WITH A CARLSON BRASH DUAL FREQUENCY, REAL THE KINEMATIC GLOBAL POSTICNING SYSTEM ROVER AND BASE STATION H/W BIG130147501133 & BIG130147501176 SERVAL NUMBERS REDUNDANT AND REPETITIVE MEASUREMENTS WERE TAKENTO INSURE CORRECT TIONS OF ALL DATA POINTS A TOLERANCE OF 0.04"

FLOOD INFORMATION

THE PROPOSED LEASE AREA SHOWN HEREON IS NOT LOCATED IN A 100-YEAR FLOOD PLAIN PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NO. 21083C0075C. DATED 2 03 2009. THE PROPOSED LEASE AREA IS LOCATED IN ZONE X

POINT OF BEGINNING

DW2 DRIVEWAY SW SDEWAK

SET 2"#24" R CAPPED: #3213 OR FOUND AS NOTED

0

WATER CONTROL VA VE FIRE HYDRANT ELECTRIC MANHOLE TELCO MANHOLE

X PARCEL NO: 145 00 00 02€ 00

ROPERTY OWNER RED MICHAEL B

LAND SURVEYOR'S CERTIFICATE

OURCE OF TITLE: DB 357/652

SITE INFO

PROFESSIONAL LATE SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY FURTHER CETTEY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LIMEAR MEASUREMENTS BEING WITHESSED BY MONUMENTS SHOWN HEREON ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE THE "RURAL" SURVEY, AND THE PLAT ON WHICH IT IS BASED, MEETS ALL SPECFICATION AS STATES IN KAR 201—18 150



REFERENCE IS MALE TO THE TITE REPORT ORDER #30300-2016208, SSLED BY STEWART TITE GLARANTY INSURANCE COMPANY, DATED 11:30:2016
ALL EASEMENTS CONTAINED WITHIN SAID TITLE REPORT AFFECTING THE MMEDIATE AREA SURROLADING THE LEASE HAVE BEEN PIOTTED. (EXCEPT FOR ROOFTOPS)

7 RIGHT OF WAY EASEMENT DATED JANUARY 5 1977, TO SYMSON A SEWER DISTRICT, OF RECORD IN DEED HOOK 261, PAGE 219, IN THE OFFICE AFORESAID (UNABLE TO PLOT, LEGAL DESCRIBATION IS BASED ON HOW IT WAS CONSTRUCTED)

B EASEMENT DATED MARCH 18, 2010, TO BELLSOUTH TE ECOMMUNICATIONS, NO D/B/A ATAY KENTUCKY, OF RECORD IN DEED EASEMENT S ALONG THE NORTH RIGHT OF WAY OF HWY 348 NOT PLOTTED)





FAA COORDINATE POINT 💠

LONG TUDE 55' 30' 26 75" WEST ELEVATION 412.5"

-A ACCURACY CERTIFICATION

HE HOR ZONTAL ACCURACY OF THE LAT TUDE NO LONG TUDE OF THE GEODETIC ORD NATES FALL WITHIN TWENTY (20) FEET THE ELEVATIONS (NAVORR) OF THE GROUND THE GROUND FINE (3) FEET

LEGEND

POINT OF TERMINUS
PUBLIC UTILITY EASEMENT ROW RIGHT OF WAY

SPOT ELEVATOR POSITION OF GEODETIC COORDINATES

EVERHEAD ELECTRIC PROPERTY LINE BARGED WIRE FENCE









DRAWN SY	MD
CHECKED BY	LIC/ACR
10.00.00	

REV	DATE	DESCRIPTION	
A	4 20 17	REVEW	
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-			-

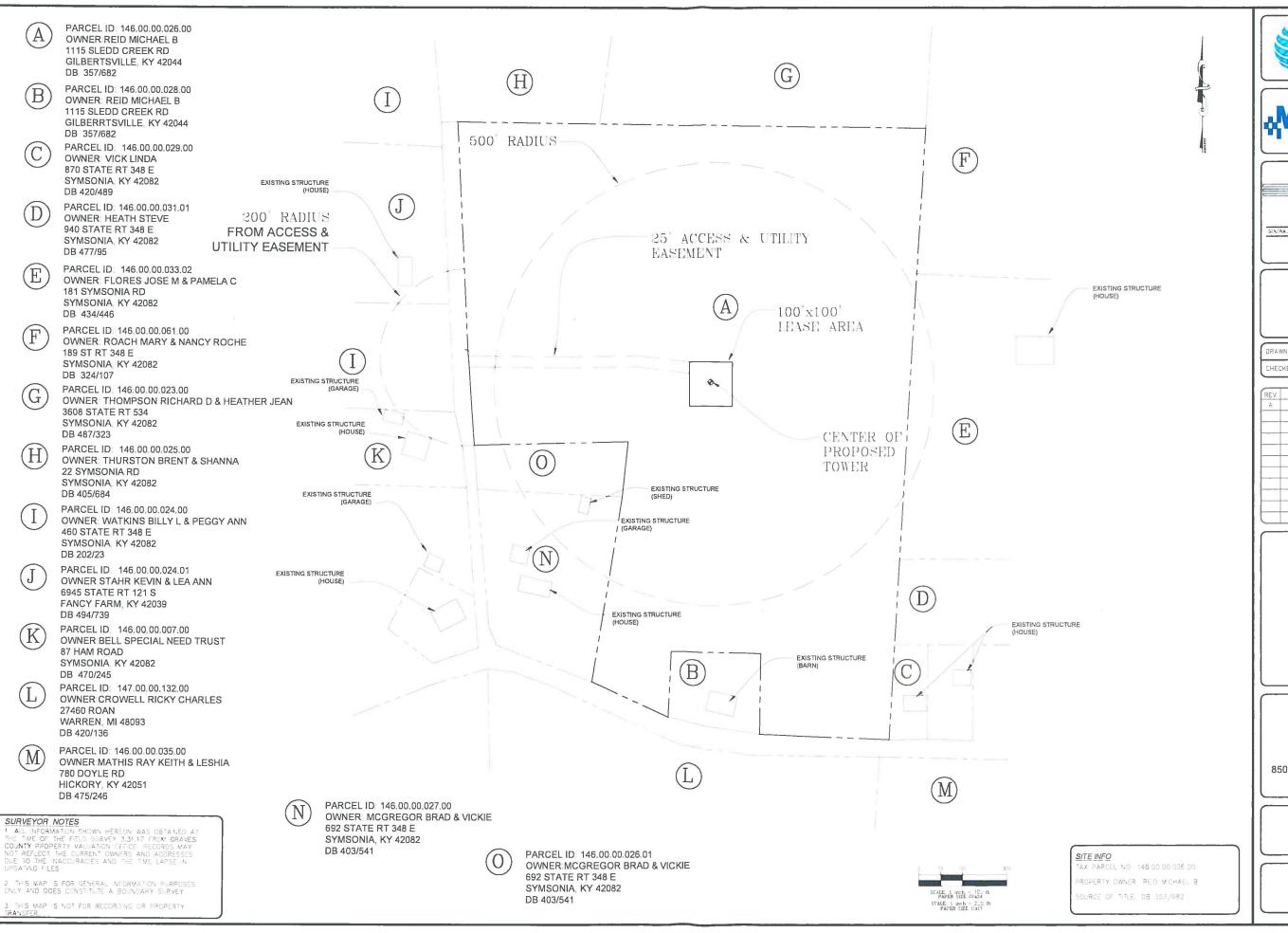


13800773 KYL03168 SYMSONIA

850 STATE ROUTE 348 EAST SYMSONIA, KY 42082 GRAVES COUNTY

> **TOPOGRAPHIC** SITE SURVEY

> > SHEET NUMBER B-1









4603 Bermuda Onvel Sugar Land TX 77479 Voice (281) 796-2651 F.Fax (866, 598-3136 Inshtower.com.

DRAWN SY MD

CHECKED BY JC/ACR

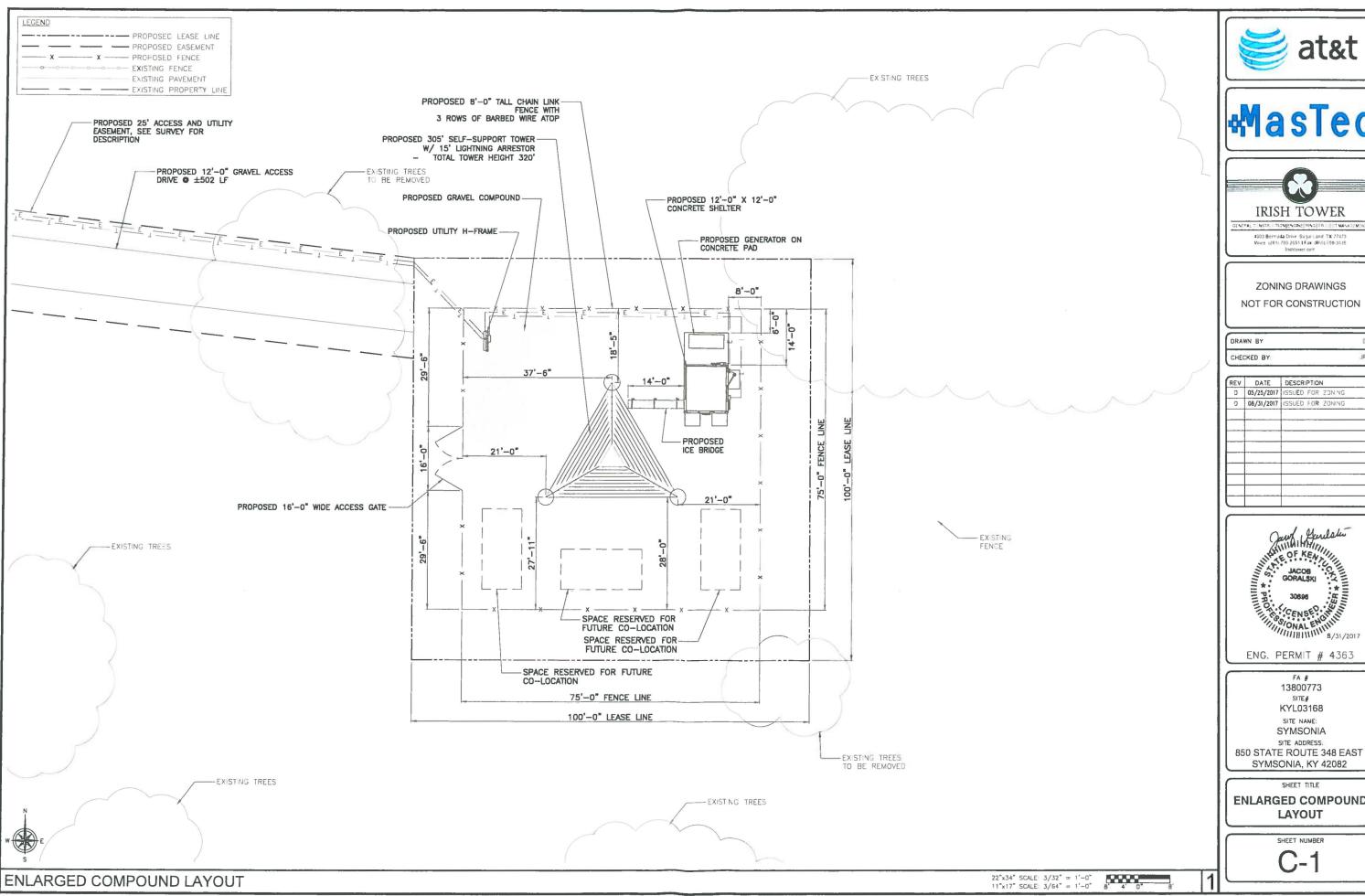
REV DATE DESCRIPTION
A 4 20 17 REMEW



FA #
13800773
SITE#
KYL03168
SITE NAME
SYMSONIA
SITE ADDRESS
850 STATE ROUTE 348 EAST
SYMSONIA, KY 42082
GRAVES COUNTY

500' RADIUS & ABUTTER'S MAP

B-2









4603 Bernuda Drive Sugar and TX 77473 Voice (281) 795-2651 Fax (84.6) 598-3136 Inshtover com.

NOT FOR CONSTRUCTION

DRAWN BY	DL
CHECKED BY	JRG

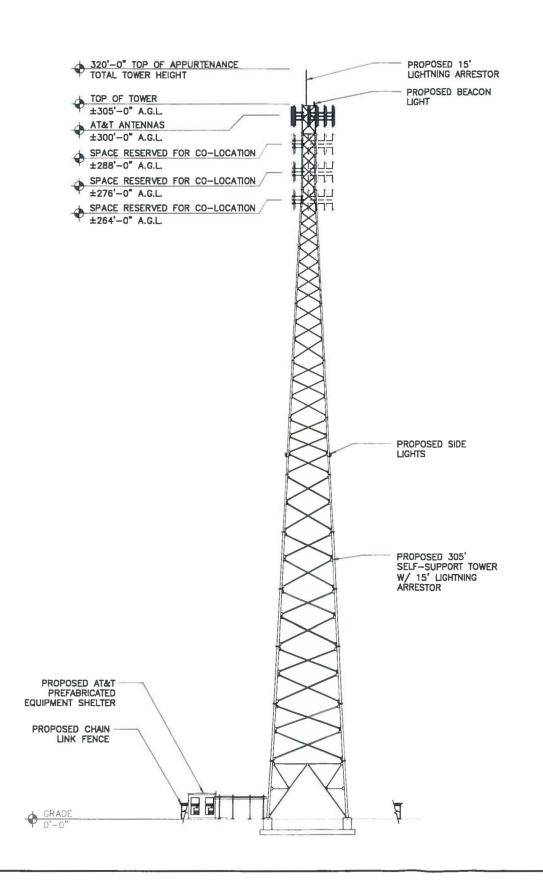
REV	DATE	DESCRIPTION
0	05/25/2017	ISSUED FOR ZON YO
ŋ	08/31/2017	ISSUED FOR ZONING
_		



ENG. PERMIT # 4363

13800773 KYL03168 SYMSONIA SITE ADDRESS. SYMSONIA, KY 42082

ENLARGED COMPOUND LAYOUT









NEPAL CONSTRUCTION [ENGINEERING] FR EST MANA TEMENT

4003 Bermuda Drive Sugar Land TX 77479

Voice (281) 796-2551 Fax (856) 598 3135

[inshitover.com:

ZONING DRAWINGS

NOT FOR CONSTRUCTION

DRAWN B	Υ-	DL
CHECKED	BY:	JRG

REV	DATE	DESCRIPTION
0	05/25/2017	ISSUED FOR ZONING
0	08/31/2017	ISSUED FOR ZONING



ENG. PERMIT # 4363

FA # 13800773
SITE#
KYL03168
SITE NAME:
SYMSONIA
SITE ADDRESS:
850 STATE ROUTE 348 EAST
SYMSONIA, KY 42082

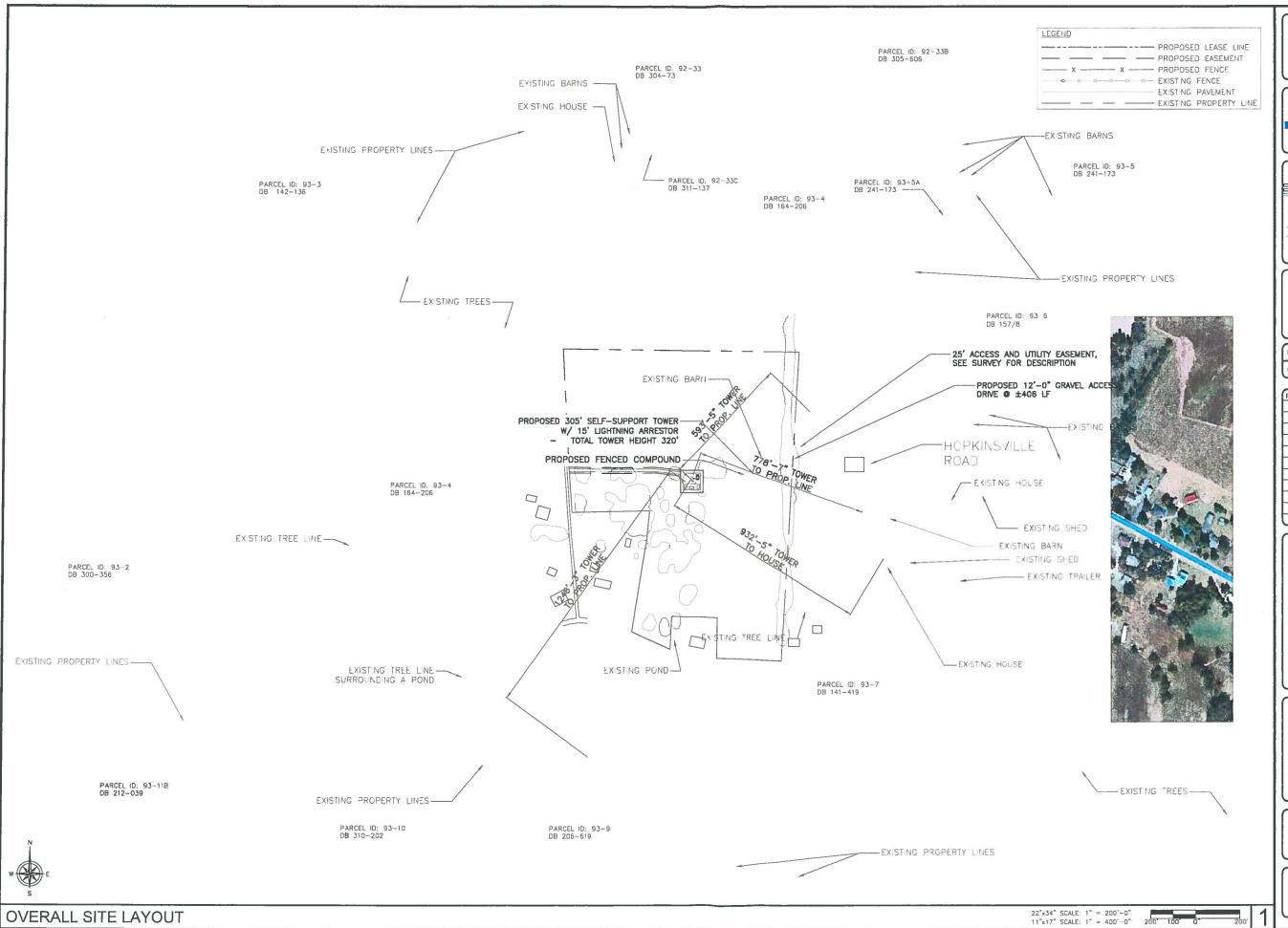
SHEET TITL

TOWER ELEVATION

C-2

22"x34" SCALE: 1" = 20'-0" 11"x17" SCALE: 1" = 40'-0"

SCALE 1" = 20'-0"









4603 Bermuda Drive Sugar Land TX 77479 Voice (281) 796-2651 Fax (859) 598-311F Inshlower.com

ZONING DRAWINGS
NOT FOR CONSTRUCTION

DRAWN BY	D
CHECKED BY:	JR

REV	DATE	DESCRIPTION
Э	05/25/2017	ISSUED FOR ZONING
ŋ	08/31/2017	ISSUED FOR ZUNING



ENG. PERMIT # 4363

FA #
13800773
SITE#
KYL03168
SITE NAME:
SYMSONIA
SITE ADDRESS:
850 STATE ROUTE 348 EAST
SYMSONIA, KY 42082

SHEET TITLE

OVERALL SITE LAYOUT

C-X

EXHIBIT C TOWER AND FOUNDATION DESIGN



Structural Design Report

305' S3TL Series HD1 Self-Supporting Tower Site: Symsonia, KY Site Number: KYL03168

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

> > Job Number: 169677

August 30, 2017

Tower Profile	1-2
Foundation Design Summary	3
Maximum Leg Loads	4
Maximum Diagonal Loads	5
Maximum Foundation Loads	6
Calculations	7-21



(1) 5/8" 7 7 1/4 NO) 2222 × 1/4 NO) 2222 × 1/4 NO) 2222 × 1/4 NO) 2222 × 1/4 NO) 2400 × 1/4 NO)					-	12.75 OD X .500	X .500				10	10.75 OD X .500	. 500		8.6	8.625 OD X .500	200		A	8	O	٥		Е	ш
NONE		9	I	-	I	-	L 4	4 X 5/1	(C)		L4X4	X 1/4		7		¥	L 3	X 3 X 3/16		٦	Σ	L2X2	× 1/4	z	0
NONE		I	۵	I	Д	O									NC	ONE							+		
NONE		r	а	S	Д	S										ž	ONE						4	1	
3000 284	als	S	a.	s	۵	S										ž	ONE								
12 14 15 15 15 15 15 15 15	tals	S	д	S	Д	٦										ž	ONE								
1				(2) 3/4	4				(2) 5/8"					(1) 3	"/4"						(1) 5/8				
300° 300°	dth	31.	-	29.		27'		25	-	23.	21	1	19'	4	1	15'	13.	-	+	,6	7:		5,		
Section Sect	Height	T	כ	۲	כ	_	כ					12 @ 1	.0					9 @ 6	1.6667"			13 (
280 260 240 220 200 180 140 120 100 80 60 40 20	the	8684	-	8503	3	8158	8	7543		6864	620	7	6058	48.	30	4305	4135	3(383	2979	2227	184	0	1175	>
	¥			$\rightarrow \sim$			(10)		10,		100.	20		40'	(60)		180	500.	220'		240	260'	280'		1 1 1

Base Reactions

Total For	ındation	Individual F	ooting
Shear (kips)	117.43	Shear (kips)	71.86
Axial (kips)	376,83	Compression (kips)	793
Moment (ft-kips)	21403	Uplift (kips)	689
Torsion (ft-kips)	49.2		

Material List

Display	Value	
Α	8.625 OD X .322	
В	5.563 OD X .500	
С	5.563 OD X .375	
D	4,500 OD X .337	
E	2.875 OD X .276	
F	2.375 OD X 154	
G	L 5 X 3 1/2 X 1/4 (SLV)	
Н	L 4 X 4 X 5/16	
I	L 5 X 3 1/2 X 5/16 (SLV)	
J	L 3 1/2 X 3 1/2 X 1/4	
К	L 3 1/2 X 3 X 1/4 (SLV)	
L	L 2 1/2 X 2 1/2 X 1/4	
М	L 2 1/2 X 2 1/2 X 3/16	
N	L2X2X3/16	
0	L2X2X1/8	
P	NONE	
Q	L 4 X 4 X 1/4	
R	L2X2X1/4	
S	L3X3X1/4	
T	1 @ 13.333'	
U	1 @ 6.667'	
V	249	

Notes

- 1) All legs are A500 (50 ksi Min. Yield).
- 2) All braces are A572 Grade 50.
- 3) All brace bolts are A325-X.
- 4) The tower model is S3TL Series HD1.
- Transmission lines are to be attached to standard 12 hole waveguide ladders with stackable hangers.
- 6) Azimuths are relative (not based on true north).
- 7) Foundation loads shown are maximums.
- (6) 1 3/4" dia. F1554 grade 105 anchor bolts per leg.
 Minimum 65.5" embedment from top of concrete to top of nut.
- 9) All unequal angles are oriented with the short leg vertical.
- 10) Weights shown are estimates. Final weights may vary.
- 11) This tower was designed for a basic wind speed of 89 mph with 0" of radial ice, and 30 mph with 1" of radial ice, in accordance with ANSI/TIA-222-G, Structure Class II, Exposure Category C, Topographic Category 1.
- 12) The foundation loads shown are factored loads.
- 13) The tower design meets the requirements for an Ultimate Wind Speed of 115 mph (Risk Category II), in accordance with the 2012 International Building Code.
- 14) Tower Rating: 98,94%



Sabre Communications Corporation 7101 Southbridge Drive P.O. Box 658

P.O. Box 658 Sioux City IA 51102-0658 Phone (712) 258-6690 Fax (712) 279-0814

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Site Name Symsonia, KY KYL03168
Description 305' S3TL

By REB

Date 8/30/2017

Page 1

Designed Appurtenance Loading

Elev	Description	Tx-Line
310	(1) Extendible Lightning Rod	
300	(1) 278 Sq. FT. EPA /6000# (No Ice)	(18) 1 5/8"
288	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"

Elev	Description	Tx-Line
276	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"
264	(1) 208 sq. ft. EPA 4000# (no ice)	(18) 1 5/8"

Sabre Industries
Towers and Poles
Towers and Poles
For (1/2) 28-6686
Fax (1/2) 279-0814
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169677

Customer AT&T

Site Name Symsonia, KY KYL03168

Description: 305' S3TL Date

8/30/2017 By REB

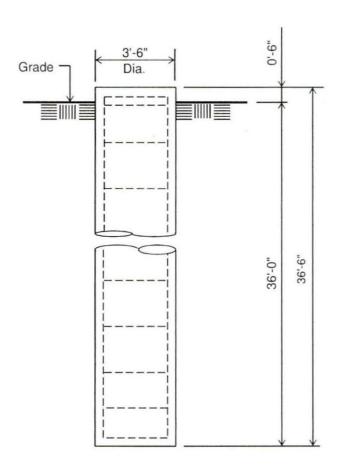


No.: 169677

Date: 8/30/17 By: DJH

Customer: AT&T Site: Symsonia, KY KYL03168

305 ft. Model S3TL Series HD1 Self Supporting Tower At 89 mph Wind with no ice and 30 mph Wind with 1 in. Ice per ANSI/TIA-222-G. Antenna Loading per Page 1



ELEVATION VIEW

(13.01 Cu. Yds. each) (3 REQUIRED; NOT TO SCALE)

Notes:

- 1). Concrete shall have a minimum 28-day compressive strength of 4500 PSI, in accordance with ACI 318-11.
- 2). Rebars to conform to ASTM specification A615 Grade 60.
- All rebar to have a minimum of 3" concrete cover.
- 4). All exposed concrete corners to be chamfered 3/4".
- 5). The foundation design is based on the geotechnical report by ECS Southeast, LLP; project# 26:3125-F1; dated June 27, 2017.
- 6). See the geotechnical report for drilled pier installation requirements, if specified.
- 7). The foundation is based on the following factored loads:
 Factored uplift (kips) = 689
 Factored download (kips) = 793
 Factored shear (kips) = 72

	Rebar Schedule per Pier
Pier	(16) #11 vertical rebar w/#4 ties, two (2) within top 5" of pier then 9" C/C

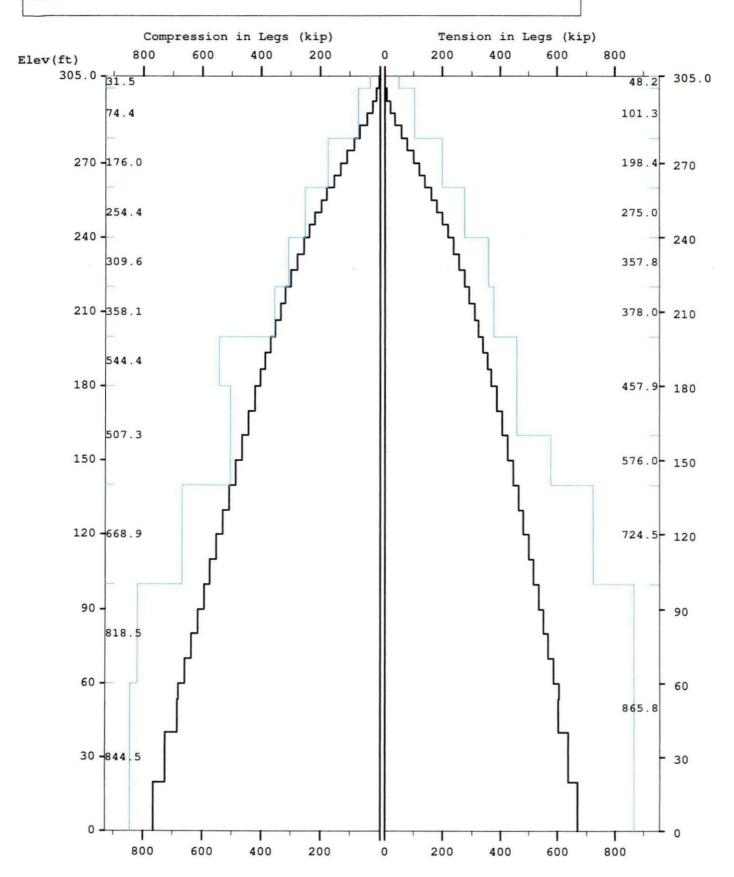
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15:47:17

24 aug 2017

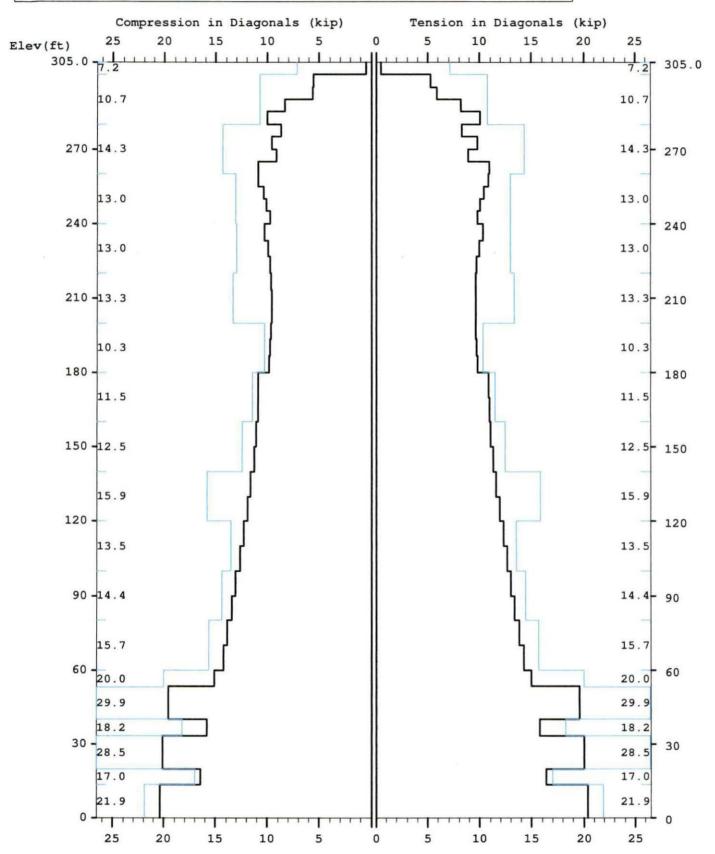
Maximum



24 aug 2017 15:47:17

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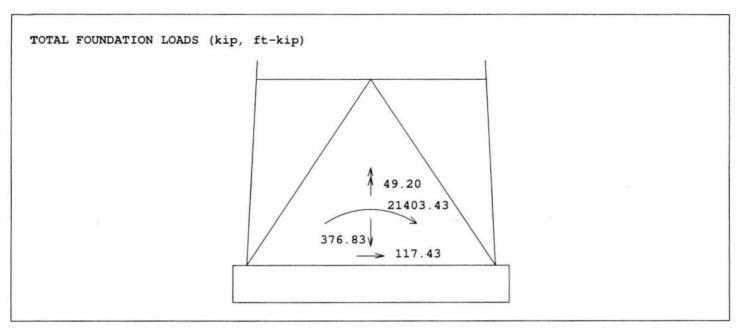
DRAWFORCE Ver 2.2 (c) Guymast Inc. 2006-2009 Phone: (416) 736-7453

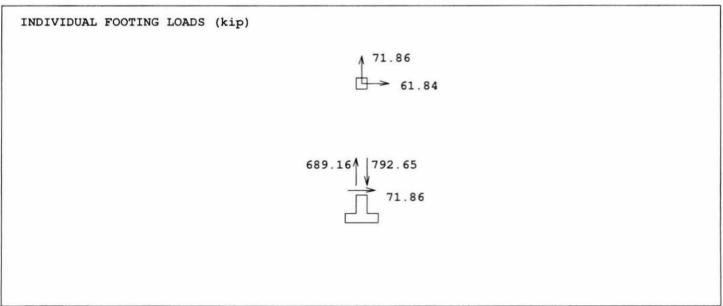
24 aug 2017

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15:47:17

Maximum





Sabre Towers and Poles

on: 24 aug 2017 at: 15:47:17

MAST GEOMETRY (ft) -----

PANEL TYPE	NO.OF LEGS	ELEV.AT BOTTOM	ELEV.AT TOP	F.WAT BOTTOM	F.WAT TOP	TYPICAL PANEL HEIGHT
× × × × × × × × × × × × × × × × × × ×		300.00 295.00 280.00 275.00 260.00 240.00 220.00 180.00 140.00 120.00 100.00 80.00 60.00 53.33 40.00 33.33 20.00	305.00 300.00 295.00 280.00 275.00 260.00 240.00 220.00 180.00 140.00 140.00 120.00 100.00 80.00 60.00 53.33 40.00 33.33	5.00 5.00 5.50 7.00 9.00 11.00 13.00 15.00 17.00 19.00 21.00 27.67 29.00 27.67 29.67 31.67 33.00	5.00 5.00 5.00 5.50 7.00 9.00 11.00 15.00 17.00 21.00 23.00 27.00 27.67 29.67 31.00 31.67	5.00 5.00 5.00 5.00 5.00 6.67 6.67 10.00 10.00 10.00 10.00 10.00 10.00 6.67 13.33 6.67

MEMBER PROPERTIES

MEMBER TYPE	BOTTOM ELEV ft	TOP ELEV ft	X-SECTN AREA in.sq	RADIUS OF GYRAT in	ELASTIC MODULUS ksi	THERMAL EXPANSN /deg
LE LE LE LE LE LE LE LE LE LE LE LE LE L	300.00 280.00 240.00 220.00 200.00 140.00 100.00 0.00 300.00 240.00 240.00 240.00 160.00 180.00 160.00 13.33 0.00 13	305.00 300.00 280.00 240.00 220.00 200.00 140.00 305.00 300.00 280.00 240.00 220.00 180.00 140.00 53.33 40.00 33.33 20.00 13.33 305.00 300.00 280.00	1.075 2.254 4.407 6.111 7.952 8.399 12.763 16.101 19.242 0.484 0.715 0.938 1.090 1.568 1.938 2.402 2.559 2.402 2.559 2.402 2.559 2.402 2.062 0.484 0.715 0.938	0.787 0.787 0.787 0.787 0.787 0.787 0.787 0.787 0.626 0.626 0.626 0.626 0.626 0.626 0.626 0.626 0.626 0.626 0.626 0.626	29000 . 29000 .	0.0000117 0.0000117
HO BR BR	0.00 40.00 20.00	13.33 53.33 33.33	2.402 1.438 1.438	0.626 0.000 0.000	29000. 29000. 29000.	0.0000117 0.0000117 0.0000117

169677 0.000 29000. 0.0000117 0.00 13.33 1.688 BR

FACTORED MEMBER RESISTANCES _____

BOTTOM	TOP	COMP	EGS TENS	COMP	GONALS TENS	COMP	ZONTALS TENS	COMP	BRACING TENS
ft	ft	kip	kip	kip	kip	kip	kip	kip	kip
300.0	305.0	31.48	48.15	7.16	7.16	5.73	5.73	0.00	0.00
295.0	300.0	74.39	101.25	10.74	10.74	8.38	8.38	0.00	0.00
280.0 275.0	295.0	74.39 175.98	101.25 198.45	10.74 14.32	10.74 14.32	0.00	0.00	0.00	0.00
260.0	275.0	175.98	198.45	14.32	14.32	0.00	0.00	0.00	0.00
240.0	260.0	254.38	274.95	13.03	13.03	0.00	0.00	0.00	0.00
220.0	240.0	309.64	357.75	13.00	13.00	0.00	0.00	0.00	0.00
200.0	220.0	358.08	378.00	13.34	13.34	0.00	0.00	0.00	0.00
180.0 160.0	200.0 180.0	544.40 507.33	457.90 457.90	10.34	10.34 11.47	0.00	0.00	0.00	0.00
140.0	160.0	507.33	576.00	12.46	12.46	0.00	0.00	0.00	0.00
120.0	140.0	668.86	724.50	15.85	15.85	0.00	0.00	0.00	0.00
100.0	120.0	668.86	724.50	13.50	13.50	0.00	0.00	0.00	0.00
80.0	100.0	818.52	865.80	14.39	14.39	0.00	0.00	0.00	0.00
60.0 53.3	80.0 60.0	818.52 844.46	865.80 865.80	15.70	15.70 20.02	0.00	0.00	0.00	0.00
40.0	53.3	844.46	865.80	29.94	29.94	15.50	15.50	7.41	7.41
33.3	40.0	844.46	865.80	18.24	18.24	0.00	0.00	0.00	0.00
20.0	33.3	844.46	865.80	28.50	28.50	17.13	17.13	6.59	6.59
13.3	20.0	844.46	865.80	16.98	16.98	0.00	0.00	0.00	0.00
0.0	13.3	844.46	865.80	21.92	21.92	15.58	15.58	8.95	8.95

89 mph wind with no ice. Wind Azimuth: 0♦

MAST LOADING

LOAD TYPE	ELEV ft	APPLYLO RADIUS ft	ADAT AZI	LOAD AZI	FORCES HORIZ kip	DOWN kip	MOME VERTICAL ft-kip	TORSNAL ft-kip
C C C C	310.0 300.0 288.0 276.0 264.0	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.29 10.39 7.71 7.64 7.57	0.15 7.20 4.80 4.80 4.80	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
0000000000000	305.0 300.0 300.0 290.0 285.0 285.0 285.0 275.0 275.0 265.0 266.0 240.0 220.0 220.0 220.0 220.0 220.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	180.0 180.0 42.0 42.0 63.7 76.5 76.5 76.5 80.8 89.1 101.2 58.7 330.0 329.1 329.9 329.2 329.9 329.4 330.0 329.6	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.07 0.07 0.15 0.14 0.16 0.17 0.17 0.19 0.21 0.21 0.22 0.24 0.25 0.24 0.25 0.24 0.25	0.04 0.09 0.08 0.10 0.11 0.11 0.16 0.17 0.20 0.22 0.23 0.25 0.26 0.26 0.32	0.00 0.00 0.06 0.06 0.06 0.06 0.06 0.06	0.00 0.00 0.10 0.12 0.12 0.12 0.11 0.11

Page 2

^{*} Only 3 condition(s) shown in full
* Some wind loads may have been derived from full-scale wind tunnel testing

D	180.0	0.00	329.9	0.0	0.25	169677 0.33	0.01	0.05
D	150.0	0.00	329.9	0.0	0.26	0.34	0.01	0.05
D	150.0 140.0	0.00	329.8	0.0	0.27	0.35	0.01	0.05
D	140.0	0.00	330.0	0.0	0.29	0.33	0.01	0.05
D	100.0	0.00	329.9	0.0	0.29	0.42	0.01	0.04
D	100.0	0.00	330.0	0.0	0.29	0.46	0.01	0.04
D	80.0	0.00	329.9	0.0	0.30	0.47	0.01	0.04
D	80.0	0.00	330.0	0.0	0.29	0.50	0.01	0.04
	60.0	0.00	329.9	0.0	0.29	0.51	0.01	0.04
D D	60.0 53.3	0.00	330.0	0.0	0.26	0.48	0.01	0.04
D	53.3	0.00	329.9	0.0	0.30	0.56	0.01	0.04
D	40.0	0.00	329.9	0.0	0.30	0.56	0.01	0.04
	40.0	0.00	330.0	0.0	0.24	0.48	0.01	0.04
D	33.3	0.00	330.0	0.0	0.24	0.48	0.01	0.04
D	33.3	0.00	330.0	0.0	0.28	0.59	0.01	0.04
D	20.0	0.00	330.0	0.0	0.28	0.59	0.01	0.04
	20.0	0.00	330.0	0.0	0.21	0.49	0.01	0.03
D	13.3 13.3	0.00	330.0	0.0	0.21	0.49	$0.01 \\ 0.01$	0.03
D	0.0	0.00	330.0	0.0	0.25	0.59	0.01	0.03

SUPPRESS PRINTING

	FOR	THIS LO	ADING	MAXIMUMS			
LOADS	DISPL	MEMBER	FOUNDN	ALL	DISPL	MEMBER	FOUNDN
INPUT		FORCES	LOADS			FORCES	LOADS
no	yes	yes	yes	no	no	no	no

89 mph wind with no ice. Wind Azimuth: 00

MAST LOADING

.....FORCES.....MOMENTS..... VERTICAL TORSNAL LOAD ELEV APPLY..LOAD..AT LOAD TYPE RADIUS AZI AZI kip kip ft-kip ft-kip 0.12 5.40 3.60 3.60 3.60 310.0 300.0 0.00 0.0 0.0 0.00 0.00 0.29 00000 10.39 7.71 7.64 7.57 0.0 0.00 288.0 276.0 264.0 0.0 0.00 0.00 0.00 0.00 0.00 0.0 0.03 0.03 0.07 0.06 0.07 D 305.0 0.00 180.0 0.0 0.07 0.00 0.00 0.07 0.00 D 300.0 0.00 180.0 0.0 0.00 42.0 D 300.0 0.00 0.0 0.04 D 290.0 0.00 0.0 0.14 0.04 0.10 290.0 0.00 63.7 0.0 0.16 0.04 0.12 0000 285.0 0.00 0.12 63.7 0.0 0.16 0.04 0.00 0.00 0.00 0.00 0.00 285.0 76.5 76.5 80.8 0.17 0.17 0.19 0.08 0.08 0.12 0.0 0.05 0.12 280.0 280.0 275.0 275.0 0.0 0.05 0.12 D 0.11 0.12 0.13 0.13 0.15 D 0.19 0.04 0.11 80.8 0.0 D 99.1 0.0 0.03 101.2 0.21 0.22 0.22 D 265.0 0.00 0.0 0.03 0.07 D 265.0 0.00 0.0 0.00 0.05 DDD 260.0 0.00 58.7 0.0 0.15 0.00 0.05 0.24 0.25 0.24 0.24 0.00 260.0 240.0 330.0 0.0 0.17 0.01 0.05 329.1 329.9 329.2 0.0 0.17 0.05 0.01 0.00 0.00 0.00 0.00 240.0 220.0 D 0.0 0.19 0.01 0.05 D 0.26 0.20 D 220.0 329.9 0.0 0.01 0.05 D 200.0 329.4 0.0 0.01 0.05 0.24 D 200.0 0.00 330.0 0.0 0.27 0.01 0.05 D 180.0 0.00 329.6 0.0 0.28 0.01 0.05 329.9 329.9 D 180.0 0.00 0.0 0.25 0.25 0.01 0.05 0.26 150.0 0.00 0.26 0.0 0.01 0.05

						169677		
D	150.0	0.00	329.8	0.0	0.27	0.26	0.01	0.05
D	140.0	0.00	329.8	0.0	0.27	0.26	0.01	0.05
D	140.0	0.00	330.0	0.0	0.29	0.31	0.01	0.05
D	100.0	0.00	329.9	0.0	0.29	0.32	0.01	0.04
D	100.0	0.00	330.0	0.0	0.29	0.35	0.01	0.04
D	80.0	0.00	329.9	0.0	0.30	0.35	0.01	0.04
D	80.0	0.00	330.0	0.0	0.29	0.38	0.01	0.04
D	60.0		329.9	0.0	0.29	0.38	0.01	0.04
D	60.0		330.0	0.0	0.26	0.36	0.01	0.04
D	53.3		330.0	0.0	0.26	0.36	0.01	0.04
	53.3		329.9	0.0	0.30	0.42	0.01	0.04
D	40.0		329.9	0.0	0.30	0.42	0.01	0.04
D	40.0		330.0	0.0	0.24	0.36	0.01	0.04
D	33.3		330.0	0.0	0.24	0.36	0.01	0.04
D	33.3		330.0	0.0	0.28	0.44	0.01	0.04
D	20.0		330.0	0.0	0.28	0.44	0.01	0.04
D	20.0		330.0	0.0	0.21	0.37	0.01	0.03
D	13.3		330.0	0.0	0.21	0.37	0.01	0.03
DDD	13.3		330.0	0.0	0.25	0.44	0.01	0.03
D	0.0	0.00	330.0	0.0	0.25	0.44	0.01	0.03

SUPPRESS PRINTING

	FOR	THIS	LOA	DING
LOADS	DISPL	MEMBE	ER	FOUNDN
INPUT		FORCE	ES	LOADS

......MAXIMUMS......ALL DISPL MEMBER FOUNDN FORCES LOADS

no yes yes yes no no no no

30 mph wind with 1 ice. Wind Azimuth: 0+

MAST LOADING

LOAD TYPE	ELEV ft	APPLYLO RADIUS ft	ADAT AZI	LOAD	FORC HORIZ kip	ES DOWN kip	MOME VERTICAL ft-kip	TORSNAL ft-kip
C C C	310.0 300.0 288.0 276.0 264.0	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.06 1.48 1.91 1.88 1.86	0.35 22.16 14.74 14.69 14.65	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	305.0 300.0 300.0 295.0 295.0 290.0 285.0 280.0 275.0 265.0 265.0 260.0 240.0 220.0 220.0 220.0 200.0 180.0	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	180.0 180.0 42.0 42.0 70.0 70.0 70.0 88.5 90.2 96.9 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.3 39.9		0.01 0.01 0.02 0.02 0.02 0.02 0.02 0.02	0.25 0.42 0.42 0.36 0.36 0.43 0.43 0.61 0.65 0.73 0.73 0.73 0.85 0.90 0.92 0.98	0.00 0.00 0.27 0.27 0.27 0.25 0.25 0.27 0.24 0.14 0.14 0.13 0.02 0.03 0.03 0.03 0.03 0.03 0.03	0.00 0.00 0.01 0.01 0.01 0.01 0.01 0.01

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						169677		
D	150.0	0.00	329.8	0.0	0.03	1.01	0.03	0.00
D	140.0	0.00	329.8	0.0	0.03	1.01	0.03	0.00
D	140.0	0.00	329.9	0.0	0.03	1.09	0.03	0.00
D	90.0	0.00	329.9	0.0	0.03	1.18	0.03	0.00
D	90.0	0.00	329.9	0.0	0.03	1.21	0.03	0.00
D	60.0	0.00	329.9	0.0	0.03	1.26	0.03	0.00
D	60.0	0.00	330.0	0.0	0.03	1.14	0.03	0.00
D	53.3	0.00	330.0	0.0	0.03	1.14	0.03	0.00
D	53.3	0.00	329.9	0.0	0.03	1.46	0.03	0.00
D	40.0	0.00	329.9	0.0	0.03	1.46	0.03	0.00
D	40.0	0.00	330.0	0.0	0.02	1.14	0.03	0.00
D	33.3	0.00	330.0	0.0	0.02	1.14	0.03	0.00
D	33.3	0.00	330.0	0.0	0.03	1.48	0.03	0.00
D	20.0	0.00	330.0	0.0	0.03	1.48	0.03	0.00
D	20.0	0.00	330.0	0.0	0.02	1.15	0.03	0.00
D	13.3	0.00	330.0	0.0	0.02	1.15	0.03	0.00
D	13.3	0.00	330.0	0.0	0.03	1.57	0.04	0.00
D	0.0	0.00	330.0	0.0	0.03	1.57	0.04	0.00

SUPPRESS PRINTING

	FOR	THIS LO	ADING		MAXIMUMS			
LOADS	DISPL	MEMBER	FOUNDN	ALL	DISPL	MEMBER	FOUNDN	
INPUT		FORCES	LOADS			FORCES	LOADS	
no	yes	yes	yes	no	no	no	no	

MAXIMUM MAST DISPLACEMENTS:

ELEV ft	NORTH	FLECTIONS (f EAST	t) DOWN	TILTS	(DEG) EAST	TWIST DEG
305.0 300.0 295.0 290.0 285.0 280.0 275.0 265.0 265.0 240.0 245.0 245.0 240.0 213.3 206.7 220.0 193.3 186.7 180.0 170.0 160.0 150.0 140.0 120.0 110.0 100.0 100.0 80.0 70.0 80.	4.692 G 4.502 G 4.309 G 4.121 G 3.931 G 3.750 G 3.4468 G 3.246 G 3.246 G 2.657 G 2.657 G 2.657 G 2.657 G 2.657 G 2.657 G 2.1524 G 2.1526 G	-4.514 D -4.330 D -4.145 D -3.963 D -3.781 D -3.607 D -3.439 D -3.278 D -2.971 D -2.827 D -2.827 D -2.827 D -2.2668 D -2.555 D -2.427 D -1.833 D -1.703 D -1.833 D -1.703 D -1.852 D -1.467 D -1.359 D -1.253 D -1.253 D -1.253 D -1.253 D -1.253 D -1.359 D -1.253 D -1.359 D -1.359 D -1.253 D -1.359 D -1.253 D -1.359 D -1.359 D -1.253 D -1.359 D -1.253 D -1	0.066 G 0.063 G 0.059 G 0.055 G 0.055 G 0.052 G 0.048 G 0.047 e 0.044 e 0.044 e 0.044 e 0.042 e 0.041 e 0.037 e 0.036 e 0.037 e 0.038 e 0.037 e 0.038 e 0.032 e 0.039 e 0.029 e 0.029 e 0.029 e 0.029 e 0.020 e 0.023 e 0.024 a 0.015 a 0.015 a 0.016 a 0.017 a 0.017 a 0.008 i 0.007 a 0.004 a	2.181 G 2.180 G 2.169 G 2.137 G 2.079 G 1.986 G 1.928 G 1.788 G 1.708 G 1.514 G 1.514 G 1.514 G 1.514 G 1.514 G 1.514 G 1.514 G 1.514 G 1.081 G 0.965 G 0.921 G 0.965 G 0.921 G 0.965 G 0.921 G 0.876 G 0.921 G 0.965 G 0.921 G 0.876 G 0.921 G 0.965	-2.099 D -2.089 D -2.086 D -2.056 D -1.911 D -1.856 D -1.721 D -1.585 D -1.522 D -1.458 D -1.320 D -1.177 D -1.109 D -1.109 D -1.040 D -0.929 D -0.886 D -0.842 D -0.772 D -0.648 D -0.584 D -0.309 D -0.209 D -0.	0.135 L 0.135 L 0.135 L 0.135 L 0.131 R -0.126 R -0.120 R -0.115 R -0.110 R -0.096 R -0.096 R -0.097 R -0.070 R -0.073 R -0.070 R -0.050 R -0.050 R -0.054 R -0.050 R -0.054 R -0.050 R -0.055 R
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

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MAXIMUM TENSI	NI NC	MAST	MEMBERS	(kip)
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=======		=======	==	==		
ELEV ft	LEGS	DIAG		HORIZ	BRACE	
305.0	0.15 U	0.46	м	0.09	A 0.00	Α
300.0	5.43 M	5.29		1.68	κ 0.00	Α
295.0			T	0.28	A 0.00	Α
290.0	18.86 M	5.83	В	0.13	s 0.00	Α
285.0	34.64 M	8.21	N	0.30	A 0.00	Α
280.0	57.01 M	10.09	В	0.55	м 0.00	Α
275.0	76.89 M	8.24	М	0.20	A 0.00	Α
270.0	97.86 M	9.78	Н	0.15	A 0.00	Α
265.0	118.04 M	8.95	Т	0.13	A 0.00	А
260.0	137.87 M	10.92	Т	0.16		А
255.0	160.47 M	10.90	Т	0.10		
250.0	180.63 M	10.44	T	0.18		
245.0	199.90 м	10.04	Т	0.09		
240.0	217.16 M	9.78	Т	0.16		
	236.21 M	10.29	Т			
233.3	256.06 M	9.98	Т	0.12		
226.7	274.88 M	9.74	Т	0.14		
220.0	292.26 M	9.64	т	0.11		
213.3	309.02 M	9.58	Т	0.08		Α
206.7	324.81 M	9.59	Т	0.10	A 0.00	A
200.0	340.19 M	9.63	Т	0.07	A 0.00	Α
193.3	354.77 M	9.71	N	0.12	A 0.00	Α
186.7	369.18 M	9.82	т	0.06	A 0.00	Α
180.0	386.16 M	10.85	т	0.11	A 0.00	Α
170.0	406.35 M	10.94	N	0.12	A 0.00	Α
160.0	425.55 M	11.08		0.08	A 0.00	Α
150.0		11.29	T	0.11	A 0.00	Α
140.0	444.44 M			0.07	A 0.00	Α
130.0	462.66 M	11.55		0.07	A 0.00	Α
120.0	480.68 M	11.89	V	0.05	A 0.00	Α
110.0	498.35 M	12.24	Р	0.07	A 0.00	А
100.0	515.94 M	12.61	V	0.05	A 0.00	Α
90.0	533.23 M	12.99	P	0.05	A 0.00	А
80.0	550.43 M	13.40	٧	0.05		
70.0	567.44 M	13.81	P	0.07		
60.0	584.31 M	14.21	٧	0.30		
53.3	604.17 M	14.99	Р	1.07		
55.5				2.07	0.00	_

0.00 A
0.00 M
0.00 M
0.00 M
0.00 A
0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
305.0	-0.31 i	-0.50 G	-0.08 S	0.00 A
300.0	-9.67 G	-5.56 B	-1.47 Q	0.00 A
295.0	-24.11 G	-5.67 N	-0.20 s	0.00 A
290.0	-41.64 G	-8.34 B	-0.15 A	0.00 A
285.0	-65.90 G	-10.07 B	-0.23 s	0.00 A
280.0	-86.46 G	-8.70 G	-0.59 G	0.00 A
275.0	-111.10 G	-9.63 T	-0.15 S	0.00 A
270.0			-0.13 s	0.00 A
265.0	-131.63 G 	-9.11 B	-0.10 s	0.00 A
260.0		-10.92 T	-0.14 S	0.00 A
255.0	-178.63 G	-10.96 B	-0.08 S	0.00 A
250.0	-199.78 G	-10.44 T	-0.16 s	0.00 A
245.0	-219.91 G	-10.10 B	-0.08 s	0.00 A
240.0	-238.18 G	-9.78 T	-0.14 S	0.00 A
233.3	-258.32 G	-10.34 B	-0.10 s	0.00 A
226.7	-279.65 G	-9.99 T	-0.12 S	0.00 A
220.0	-299.86 G	-9.79 н	-0.09 s	0.00 A
213.3	-318.75 G		-0.07 s	0.00 A
206.7	-336.97 G	-9.62 H	-0.09 s	0.00 A
200.0	-354.30 G	-9.61 H	-0.06 s	0.00 A
193.3	-371.32 G	-9.66 H	-0.11 S	0.00 A
186.7	-387.69 G	-9.74 H	-0.05 s	0.00 A
180.0	-403.93 G	-9.84 B	-0.10 s	0.00 A
170.0	-423.18 G	-10.91 H	-0.11 S	0.00 A
160.0	-446.23 G	-10.98 H	-0.07 s	0.00 A
150.0	-468.28 G	-11.13 H	-0.09 s	0.00 A
140.0	-490.12 G	-11.33 H	-0.06 s	0.00 A
130.0	-511.48 G	-11.61 H	-0.06 s	0.00 A
120.0	-532.88 G	-11.94 D	-0.05 s	0.00 A
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110.0	-553.	99 G	-12.29 J	-0.06		0.00 A		
	-575.		-12.66 D			970 00000		
100.0	-596.	05 G	-13.04 J	-0.04		0.00 A		
90.0	-617.	10 G	-13.45 D	-0.04	S	0.00 A		
80.0	-638.	12 G	-13.85 J	-0.05	I	0.00 A		
70.0	-659.		-14.26 D	-0.08	Α	0.00 A		
60.0				-0.27	S	0.00 A		
53.3	-682.		-15.09 J	-1.28	C	0.00 o		
40.0	-684.		-19.61 J	-0.22	S	0.00 A		
33.3	-724.	42 G	-15.85 J	-1.21	C	0.00)		
20.0		27 G	-20.11 D	-0.09		0.00 J		
	-765.	93 G	-16.46 J					
13.3	-767.	78 G	-20.42 J	-1.08		0.00 T		
2 5				0.00	A	0.00 A	8	
		======	ATION LOADS:			TOTAI	Ĺ	
AXIMUM INI		-LOAD EAST	-COMPONENTS - DOWN	UPLI	FT	TOTAI SHEAR	R	
NORTH	====== G	 -LOAD EAST 61.84 K	-COMPONENTS- DOWN 792.65	UPL1 G -689.	.16 M		R	
NORTH 71.86	 G TAL LOA		-COMPONENTS - DOWN	UPLI G -689.	.16 M)-ft)	SHEAR	R	
AXIMUM INI NORTH 71.86	G TAL LOA	-LOAD EAST 61.84 K	-COMPONENTS- DOWN 792.65	UPL3 G -689. (kip & kip	.16 M .0-ft) ====	SHEAF 71.86 RNING	R 5 G	TORSION
NORTH 71.86	G TAL LOA ====== RIZONTA EAST	-LOAD EAST 61.84 K DS ON FO	-COMPONENTS- DOWN 792.65 DUNDATION :	UPLI G -689. (kip & kip	-20512	SHEAF 71.86 RNING ST	R 5 G TOTAL	
NORTH 71.86 G MAXIMUM TO MAXIMUM TO MAXIMUM TO MORTH 117.4 G	G TAL LOA ====== RIZONTA EAST @	L TOTAL 0.0 117.4	-COMPONENTS-DOWN 792.65 DUNDATION: DOWN 376.8	UPLI G -689. (kip & kip NORTH	-20512	SHEAF 71.86 RNING ST (TOTAL a 0.0 21403.4	49.2
NORTH 71.86 NAXIMUM TO NORTH 117.4 G	G TAL LOA ====== RIZONTA EAST @ 111.8 P	-LOAD EAST 61.84 K DS ON FO	-COMPONENTS-DOWN 792.65 DUNDATION: DOWN 376.8 a	UPLI G -689. (kip & kip NORTH 21403.4	-20512	SHEAF 71.86	TOTAL 0.0 21403.4 G	49.2 X
MAXIMUM INI NORTH 71.86 MAXIMUM TO NORTH 117.4 G	G TAL LOA ====== RIZONTA EAST @ 111.8 P	L TOTAL 0.0 117.4 G alysis (COMPONENTS-DOWN 792.65 DUNDATION: DOWN 376.8 a	UPLI G -689. (kip & kip NORTH 21403.4	-20512	SHEAF 71.86	TOTAL 0.0 21403.4 G	49.2 X

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

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

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MAST	LOADING
====	

LOAD TYPE	ELEV ft	APPLYLO RADIUS ft	ADAT AZI	LOAD AZI	HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C C C C C	310.0 300.0 288.0 276.0 264.0	0.00 0.00 0.00 0.00 0.00	0.0 0.0 0.0 0.0	0.0 0.0 0.0 0.0	0.08 2.95 2.19 2.17 2.15	0.13 6.00 4.00 4.00 4.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
	305.0 300.0 300.0 290.0 290.0 280.0 275.0 265.0 265.0 265.0 220.0 220.0 220.0 220.0 180.0 150.0 140.0 150.0 140.0 150.0 140.0 150.0 140.0 100.0 80.0 60.0 80.0 60.0 80.0 80.0 80.0	0.00 0.00	180.0 180.0 42.0 63.7 766.5 80.8 80.8 99.1 101.2 58.7 330.0 1329.9 330.0 329.9 330.0		0.02 0.02 0.04 0.04 0.04 0.05 0.06 0.06 0.06 0.07 0.07 0.07 0.07 0.08 0.08 0.08 0.08	0.03 0.03 0.08 0.07 0.08 0.09 0.13 0.14 0.15 0.16 0.16 0.18 0.22 0.22 0.22 0.27 0.27 0.27 0.29 0.29 0.34 0.35 0.39 0.39 0.39 0.42 0.40 0.40 0.40 0.40 0.40 0.40 0.40	0.00 0.00 0.00 0.05 0.05 0.05 0.05 0.05 0.05 0.01	0.00 0.00 0.03 0.03 0.03 0.03 0.02 0.02 0.02 0.01
D	0.0	0.00	330.0	0.0	0.07	0.49	0.01	0.01

SUPPRESS PRINTING

	FOR	THIS LO	ADING		MAX	IMUMS	
LOADS	DISPL	MEMBER	FOUNDN	ALL	DISPL	MEMBER	FOUNDN
INPUT		FORCES	LOADS			FORCES	LOADS
no	yes	yes	yes	no	no	no	no

MAXIMUM MAST DISPLACEMENTS:

ELEV	DE	FLECTIONS (ft)	TILTS	(DEG)	TWIST
ft	NORTH	EAST	DOWN	NORTH	EAST	DEG
305.0	1.343 G	-1.292 D	0.018 G	0.623 G	-0.600 D	-0.038 F
300.0	1.288 G	-1.240 D	0.017 G	0.623 G	-0.600 D	-0.038 F
295.0	1.233 G	-1.187 D	0.017 G	0.620 G	-0.597 D	-0.038 F

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290.0 285.0 280.0 275.0 270.0 265.0 255.0 240.0 241.0 241.3 206.7 200.0 1186.7 180.0 170.0 160.0 140.0 130.0 120.0	1.179 G 1.125 G 1.073 G 1.024 G 0.976 G 0.929 G 0.885 G 0.800 G 0.761 G 0.723 G 0.675 G 0.630 G 0.546 G 0.546 G 0.546 G 0.472 G 0.472 G 0.472 G 0.473 G 0.474 G 0.475 G 0.475 G 0.475 G 0.475 G	-1.135 D -1.082 D -1.033 D -0.985 D -0.985 D -0.894 D -0.851 D -0.851 D -0.770 D -0.7732 D -0.695 D -0.649 D -0.666 D -0.565 D -0.565 D -0.488 D -0.454 D -0.390 D -0.318 D -0.318 D -0.212 D -0.183 D -0.156 D	0.016 G 0.016 G 0.015 G 0.015 G 0.014 G 0.014 G 0.013 G 0.012 G 0.012 G 0.012 G 0.011 G 0.010 G 0.010 G 0.010 G 0.010 G 0.009 G 0.007 G 0.007 G 0.007 G 0.007 G 0.007 G 0.007 G 0.006 G	169677 0.611 G 0.594 G 0.5568 G 0.551 G 0.531 G 0.511 G 0.488 G 0.471 G 0.452 G 0.413 G 0.413 G 0.371 G 0.370 G 0.371 G 0.289 G 0.289 G 0.276 G 0.264 G 0.251 G 0.212 G 0.212 G 0.193 G 0.174 G 0.159 G 0.159 G 0.145 G	-0.588 D -0.572 D -0.546 D -0.530 D -0.512 D -0.470 D -0.473 D -0.435 D -0.435 D -0.378 D -0.378 D -0.337 D -0.337 D -0.298 D -0.278 D	-0.037 F -0.036 F -0.034 F -0.037 F -0.037 F -0.029 F -0.027 F -0.025 F -0.024 F -0.023 F -0.022 F -0.021 F -0.020 F -0.018 F -0.018 F -0.017 F -0.018 F -0.017 F -0.019 F -0.019 F -0.019 F -0.019 F -0.019 F -0.010 F
160.0	0.291 G	-0.279 D	0.008 G	0.212 G	-0.204 D	-0.012 F
140.0	0.221 G	-0.212 D	0.007 G	0.174 G	-0.167 D	-0.010 F
		-0.156 D	0.006 G	0.145 G	-0.139 D	-0.009 F
100.0	0.114 G	-0.131 D -0.109 D	0.006 G 0.005 G	0.130 G 0.116 G	-0.125 D -0.111 D	-0.008 F -0.007 F
90.0	0.093 G 0.074 G	-0.089 D -0.071 D	0.005 G 0.004 G	0.104 G 0.092 G	-0.100 D -0.089 D	-0.006 F -0.005 F
70.0 60.0	0.056 G 0.040 G	-0.054 D -0.038 D	0.004 G 0.003 G	0.080 G 0.068 G	-0.077 D -0.066 D	-0.004 F -0.004 F
53.3	0.033 G 0.019 G	-0.031 D -0.018 D	0.003 G 0.002 K	0.061 G 0.045 G	-0.059 D -0.043 D	-0.003 F -0.003 F
33.3	0.015 G 0.006 G	-0.014 D -0.006 D	0.002 J 0.001 J	0.038 G 0.022 G	-0.036 D -0.022 D	-0.002 F -0.001 F
13.3	0.003 G 0.000 A	-0.003 D 0.000 A	0.001 J 0.000 A	0.015 G 0.000 A	-0.014 D 0.000 A	-0.001 F 0.000 A

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
305.0			0.03 A	0.00 A
300.0	0.00 I	0.13 A	0.54 K	0.00 A
295.0	0.09 A	1.42 H	0.10 A	0.00 A
290.0	3.64 A	1.72 H	0.03 G	0.00 A
285.0	7.62 A	2.30 H	0.11 A	0.00 A
280.0	13.44 A	2.89 H	0.14 A	0.00 A
275.0	18.97 A	2.22 A	0.08 A	0.00 A
270.0	23.73 A	2.83 H	0.05 A	0.00 A
265.0	29.43 A	2.49 B	0.05 A	0.00 A
260.0	34.02 A	3.10 н	0.05 A	0.00 A
255.0	40.04 A	3.08 H	0.03 A	0.00 A
250.0	45.52 A	2.97 B	0.06 A	0.00 A
245.0	50.80 A	2.84 B	0.03 A	0.00 A
240.0	55.46 A	2.79 B	0.05 A	0.00 A
233.3	60.63 A	2.91 B	0.04 A	0.00 A
226.7	65.93 A	2.85 н	0.04 A	0.00 A
220.0	70.97 A	2.77 н	0.04 A	0.00 A

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	75.50	2 76		169677	
213.3	75.58 A	2.76 н	0.03	A 0.00	Α
206.7	80.03 A	2.73 н	0.03	A 0.00	٨
	84.19 A	2.75 н			
200.0	88.21 A	2.76 н	0.02	Α 0.00	А
193.3	91.95 A	2.78 н	0.04	A 0.00	Α
186.7			0.02	A 0.00	А
180.0	95.65 A	2.82 н	0.04	A 0.00	А
170.0	99.98 A	3.11 н			
	105.11 A	3.15 H			
160.0	109.95 A	3.19 н	0.03	A 0.00	Α
150.0	114.70 A	3.25 H	0.04	A 0.00	Α
140.0			0.02	A 0.00	Α
130.0	119.19 A	3.33 B	0.02	A 0.00	Α
120.0	123.56 A	3.42]	0.02		
	127.81 A	3.52 D			
110.0	132.03 A	3.62)	0.02	A 0.00	Α
100.0	136.11 A	3.73 D	0.02	A 0.00	Α
90.0			0.02	A 0.00	Α
80.0	140.10 A	3.84 〕	0.01	c 0.00	А
70.0	143.99 A	3.96 D	0.01		
	147.80 A	4.07]			
60.0	152.68 A	4.27 D	0.10	A 0.00	Α
53.3	151.20 A	5.59 D	0.27	0.00	I
40.0			0.09	A 0.00	Α
33.3	159.95 A	4.47]	0.25	I 0.00	В
20.0	158.41 A	5.72)	0.04		
	166.95 A	4.67 D			
13.3	165.40 A	5.83 D	0.22	1 0.00	A
0.0			0.00	A 0.00	А

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
305.0			-0.02 G	0.00 A
300.0	-0.12 C	-0.15 G	-0.35 E	0.00 A
295.0	-4.07 G	-1.68 н	-0.03 G	0.00 A
290.0	-8.47 G	-1.57 H	-0.05 A	0.00 A
285.0	-13.97 G	-2.42 B	-0.04 G	0.00 A
280.0	-21.42 G	-2.87 в	-0.18 G	0.00 A
275.0	-27.42 G	-2.60 G	-0.03 G	0.00 A
270.0	-35.52 G	-2.69 в	-0.03 G	0.00 A
265.0	-41.40 G	-2.65 н	-0.03 G	
	-48.90 G	-3.11 B		0.00 A
260.0			-0.03 G	0.00 A

		na maka ma	16	59677
255.0	-56.04 G	-3.14 B	-0.01 G	0.00 A
250.0	-62.29 G	-2.97 B	-0.04 G	0.00 A
245.0	-68.20 G	-2.89 B	-0.02 G	0.00 A
240.0	-73.64 G	-2.79 н	-0.03 G	0.00 A
	-79.61 G	-2.97 н		
233.3	-86.04 G	-2.86 н	-0.02 G	0.00 A
226.7	-92.12 G	-2.82 H	-0.03 G	0.00 A
220.0	-97.86 G	-2.77 H	-0.02 G	0.00 A
213.3	-103.39 G	-2.77 H	-0.02 G	0.00 A
206.7	-108.69 G		-0.02 G	0.00 A
200.0			-0.01 G	0.00 A
193.3	-113.93 G	-2.79 н	-0.02 G	0.00 A
186.7	-119.04 G	-2.81 H	-0.01 G	0.00 A
180.0	-124.10 G	-2.84 H	-0.02 G	0.00 A
170.0	-130.13 G	-3.16 H	-0.02 G	0.00 A
160.0	-137.39 G	-3.18 н	-0.02 G	0.00 A
150.0	-144.38 G	-3.24 н	-0.02 G	0.00 A
	-151.32 G	-3.29 н		
140.0	-158.18 G	-3.38 н	-0.01 G	0.00 A
130.0	-165.11 G		-0.01 G	0.00 A
120.0	-171.95 G	-3.56 J	-0.01 G	0.00 A
110.0	-178.79 G	-3.67 D	-0.01 G	0.00 A
100.0	-185.64 G		-0.01 G	0.00 A
90.0	-192.54 G		-0.01 G	0.00 A
80.0			-0.02 I	0.00 A
70.0	-199.47 G	-4.00 J	-0.03 A	0.00 A
60.0	-206.43 G		-0.06 G	0.00 A
53.3	-213.95 G	-4.37 J	-0.40 C	0.00 B
40.0	-215.42 G	-5.65 D	-0.05 G	0.00 A
33.3	-227.84 G	-4.58 D	-0.38 C	0.00 F
	-229.38 G	-5.79 D		
20.0	-241.76 G	-4.75 J	-0.02 G	0.00 F
13.3	-243.31 G	-5.87 D	-0.34 C	0.00 G
0.0			0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

	LOADC	OMPONENTS		TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
21.95 G	18 90 K	251.13 G	-170.63 A	21.95 G

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

Page 12

169677

	HORIZONTA	L	DOWN		-OVERTURNING	3	TORSION
NORTH	EAST (TOTAL 0.0		NORTH	EAST	@ O.O	
33.7 G	-32.1 D	33.7 G	109.3	6135.7 G	-5883.4 D	6135.7 G	-14.0 F

DRILLED STRAIGHT PIER DESIGN BY SABRE TOWERS & POLES

Tower Description 305' S3TL Series HD1
Customer Name AT&T
Job Number 169677
Date 8/30/2017
Engineer DJH

Factored Uplift (kips)	689	Anchor Bolt Count (per leg)	6
Factored Download (kips)	793		
Factored Shear (kips)	72		
Ultimate Bearing Pressure	100		
Bearing Φs	0.75		
Bearing Design Strength (ksf)	75		
Water Table Below Grade (ft)	999		
Bolt Circle Diameter (in)	18		
Top of Concrete to Top			
of Bottom Threads (in)	65.5		
Pier Diameter (ft)	3.5	Minimum Pier Diameter (ft)	2.83
Ht. Above Ground (ft)	0.5		
Pier Length Below Ground (ft)	36		
Quantity of Bars	16		
Bar Diameter (in)	1.41		
Tie Bar Diameter (in)	0.5		
Spacing of Ties (in)	9		
Area of Bars (in ²)	24.98	Minimum Area of Steel (in ²)	6.93
Spacing of Bars (in)	6.60	, ,	
f'c (ksi)	4.5		
fy (ksi)	60		
Unit Wt. of Concrete (kcf)	0.15		
Download Friction Φs	0.75	1	
Uplift Friction Φs	0.75	1	
Volume of Concrete (yd3)	13.01		
Skin Friction Factor for Uplift	1	Length to Ignore Download (ft)	
Ignore Bottom Length in Download?		0	
	T		0.0

Depth at Bottom of Layer (ft)	Ult. Skin Friction (ksf)	(Ult. Skin Friction)*(Uplift Factor)	γ (kcf)
5	0.00	0.00	0.115
10	0.30	0.30	0.115
22	0.70	0.70	0.115
30	4.00	4.00	0.135
50	6.00	6.00	0.135
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0
0	0.00	0.00	0

Download:

Factored Net Weight of Concrete (kips)
Bearing Design Strength (kips)
Skin Friction Design Strength (kips)
Download Design Strength (kips)

0.9	
721.6	
642.4	
1364.0	

Factored Net Download (kips)

793.9

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

		٠	٠			
	n	ı	i	Ŧ	٠	٠
U	ν	ı	ı	ı	ι	

Nominal Skin Friction (kips)	856.6		
Wc, Weight of Concrete (kips)	52.7		
W _R , Soil Resistance (kips)	2377.6		
ΦsWr+0.9Wc (kips)	1830.6		
Uplift Design Strength (kips)	689.8	Factored Uplift (kips)	689.0
Pier Design:			
Design Tensile Strength (kips)	1349.1	Tu (kips)	689.0
φV _n (kips)	75.6	V _u (kips)	72.0
$\phi V_c = \phi 2(1 + N_u/(500A_g)) f'_c^{1/2} b_w d \text{ (kips)}$	0.9		
V _s (kips)	88.0	*** $V_s \max = 4 f'_c^{1/2} b_w d \text{ (kips)}$	378.7
Maximum Spacing (in)	11.15	(Only if Shear Ties are Required)	
		*** Ref. ACI 11.5.5 & 11.5.6.3	

Anchor Bolt Pull-Out:

$\phi P_c = \phi \lambda (2/3) f'_c^{1/2} (2.8 A_{SLOPE} + 4 A_{FLAT})$	208.9	P _u (kips)	689.0
Rebar Development Length (in)	54.71	Required Length of Development (in)	32.20

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



August 14th^h, 2017 Kentucky Public Service Commission 211 Sower Blvd. P.O. Box 615 Frankfort, KY 40602-0615

RE: Site Name – Symsonia Proposed Cell Tower 36 55 07.10 North Latitude, 88 30 26.78 West Longitude

Dear Commissioners:

The Project / Construction Manager for the proposed new communications facility will be Don Murdock. His contact information is (615) 207-8280 or Don.Murdock@mastec.com

Don has been in the industry completing civil construction and constructing towers since 2009. He has worked at Mastec Network Solutions since 2009 completing project and construction management on new site build projects.

Thank you,

Don Murdock, Sr. Project Manager – Tennessee/Kentucky Market MasTec Network Solutions

Wastee Wetwork Soldtie

(615) 207-8280

EXHIBIT D
COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST

PSC Home

KY Public Service Commission

Master Utility Search

- Search for the utility of interest by using any single or combination of criteria.
- Enter Partial names to return the closest match for Utility Name and Address/City/Contact entries.

Utility ID Utility Name

Address/City/Contact Utility Type

Status

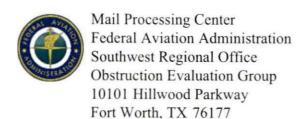
▼ Active ▼

					-	-
	Deltity	Utility Manie	Units Type	Class	CH _e	Stal
View	4107900	365 Wireless, LLC	Cellular	D	Atlanta	GA
View	4109300	Access Point, Inc.	Cellular	D	Cary	NC
View	4108300	Air Voice Wireless, LLC	Cellular	Α	Bloomfield Hill	MI
View	4110650	Alliant Technologies of KY, L.L.C.	Cellular	С	Morristown	NJ
View	44451184	Alltel Communications, LLC	Cellular	Α	Basking Ridge	NJ
View	4107800	American Broadband and Telecommunications Company	Cellular	С	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	С	Clayton	WA
View	4107400	Bandwidth.com, Inc.	Cellular	Α	Raleigh	NC
View	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
View	4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
View	4108750	Blue Jay Wireless, LLC	Cellular	С	Carrollton	TX
View	4202300	Bluegrass Wireless, LLC	Cellular	Α	Elizabethtown	KY
View	4107600	Boomerang Wireless, LLC	Cellular	В	Hiawatha	IA
View	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
View	4110050	CampusSims, Inc.	Cellular	D	Boston	MA

View	4100700	Cellco Partnership dba Verizon Wireless	Cellular	Α	Basking Ridge	NJ
View	4106600	4106600 Cintex Wireless, LLC		D	Rockville	MD
View	4101900	Consumer Cellular, Incorporated	Cellular	Α	Portland	OR
View	4106400	Credo Mobile, Inc.	Cellular	Α	San Francisco	CA
View	4108850	Cricket Wireless, LLC	Cellular	Α	San Antonio	TX
View	4001900	CTC Communications Corp. d/b/a EarthLink Business I	Cellular	D	Grand Rapids	MI
View	10640	Cumberland Cellular Partnership	Cellular	Α	Elizabethtown	KY
View	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	Α	Ivel	KY
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
View	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
View	4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
View	4105900	Flash Wireless, LLC	Cellular	С	Concord	NC
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Oak Hill	VA
View	4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
View	4102200	Globalstar USA, LLC	Cellular	В	Covington	LA
View	4109600	Google North America Inc.	Cellular	В	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	4106000	GreatCall, Inc. d/b/a Jitterbug	Cellular	Α	San Diego	CA
View	10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	Α	Basking Ridge	NJ
View	4110600	Horizon River Technologies, LLC	Cellular	С	Atlanta	GA
View	4103100	i-Wireless, LLC	Cellular	Α	Newport	KY
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Tulsa	OK
View	22215360	KDDI America, Inc.	Cellular	D	New York	NY
View	10872	Kentucky RSA #1 Partnership	Cellular	Α	Basking Ridge	NJ
View	10680	Kentucky RSA #3 Cellular General	Cellular	Α	Elizabethtown	KY
View	10681	Kentucky RSA #4 Cellular General	Cellular	Α	Elizabethtown	KY
View	4109750	Konatel, Inc. dba telecom.mobi	Cellular	D	Johnstown	PA
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4108800	MetroPCS Michigan, LLC	Cellular	Α	Bellevue	WA
View	4109650	Mitel Cloud Services, Inc.	Cellular	D	Mesa	ΑZ
View	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	Α	San Antonio	TX

		Othity Waster Information - Search				
View	10900	New Par dba Verizon Wireless	Cellular	Α	Basking Ridge	NJ
View	4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
View	4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS
View	4001800	OnStar, LLC	Cellular	Α	Detroit	MI
View	4110750	Onvoy Spectrum, LLC	Cellular	С	Plymouth	MN
View	4109050	Patriot Mobile LLC	Cellular	D	Southlake	TX
View	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
View	33351182	PNG Telecommunications, Inc.		D	Cincinnati	ОН
View	4202100	Powertel/Memphis, Inc. dba T-Mobile	Cellular	Α	Bellevue	WA
View	4107700	Puretalk Holdings, LLC	Cellular	Α	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular	Α	Dania	FL
View	4108700	Ready Wireless, LLC	Cellular	В	Hiawatha	IA
View	4110350	Regional Strategic Partners LLC	Cellular	D	Buford	GA
View	4110500	Republic Wireless, Inc.	Cellular	D	Raleigh	NC
View	4106200	Rural Cellular Corporation	Cellular		Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	D	Los Angeles	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Freemont	NE
View	4106300	SI Wireless, LLC	Cellular	Α	Carbondale	IL
View	4110150	Spectrotel, Inc. d/b/a Touch Base Communications	Cellular	D	Neptune	NJ
View	4200100	Sprint Spectrum, L.P.	Cellular	Α	Atlanta	GA
View	4200500	SprintCom, Inc.	Cellular	Α	Atlanta	GA
View	4109550	Stream Communications, LLC	Cellular	D	Dallas	TX
View	4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular	D	Red Bluff	CA
View	4202200	T-Mobile Central, LLC dba T- Mobile	Cellular	Α	Bellevue	WA
View	4002500	TAG Mobile, LLC	Cellular	D	Carrollton	TX
View	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	South Portland	ME
View	4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
View	4108900	Telrite Corporation dba Life Wireless	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	D	Kansas City	MC
View	4109950	The People's Operator USA, LLC	Cellular	D	New York	NY
View	4109000	Ting, Inc.	Cellular	Α	Toronto	ON
View	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
VIEW						

EXHIBIT E FAA



Issued Date: 09/05/2017

Dave Cundiff - Dana Irvin AT&T Mobility 208 S. Akard St., 1012.4 Dallas, TX 75202

** DETERMINATION OF NO HAZARD TO AIR NAVIGATION **

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

Structure:

Antenna Tower Symsonia

Location:

symsonia, KY

Latitude:

36-55-07.10N NAD 83

Longitude:

88-30-26.78W

Heights:

413 feet site elevation (SE)

320 feet above ground level (AGL)
733 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 1, 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 03/05/2019 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 does not constitute authority to transmit on the frequency(ies) identified in this study. The proponent is required to obtain a formal frequency transmit license from the Federal Communications Commission (FCC) or National Telecommunications and Information Administration (NTIA), prior to on-air operations of these frequency(ies).

This determination of No Hazard is granted provided the following conditional statement is included in the proponent's construction permit or license to radiate:

Upon receipt of notification from the Federal Communications Commission that harmful interference is being caused by the licencee's (permittee's) transmitter, the licensee (permittee) shall either immediately reduce the power to the point of no interference, cease operation, or take such immediate corrective action as is necessary to eliminate the harmful interference. This condition expires after 1 year of interference-free operation.

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.

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 (202) 267-0105, or j.garver@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2017-ASO-17131-OE.

Signature Control No: 341377681-342981597 Jay Garver

(DNE)

Specialist

Attachment(s) Frequency Data Map(s)

cc: FCC

Frequency Data for ASN 2017-ASO-17131-OE

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

Verified Map for ASN 2017-ASO-17131-OE

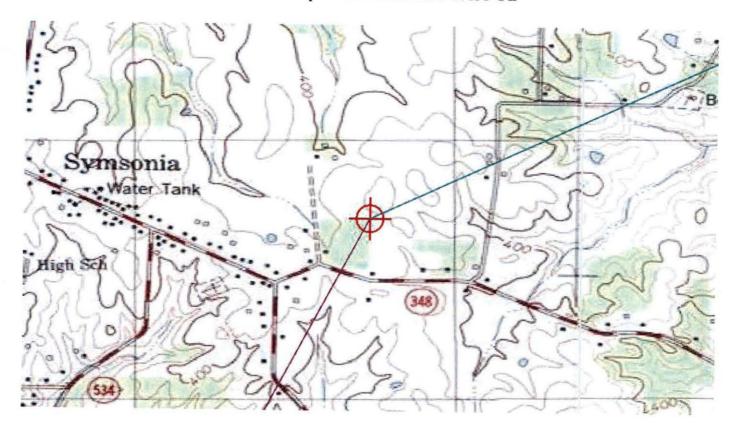


EXHIBIT F KENTUCKY AIRPORT ZONING COMMISSION



KENTUCKY AIRPORT ZONING COMMISSION

MATTHEW BEVIN Governor

421 Buttermilk Pike Covington, KY 41017 www.transportation.ky.gov 859-341-2700

CONDITIONAL APPROVAL

August 23, 2017

John Monday John Monday 3300 E. Renner Rd B3132 Richardson, TX 75082

SUBJECT: AS-042-M25-2017-068

STRUCTURE:

Antenna

LOCATION:

Symsonia, KY

COORDINATES: 36° 55' 7.10" N / 88° 30' 26.78" W

HEIGHT:

320' AGL/733' AMSL

Your application for a permit to construct or alter the above structure was reviewed at the Thursday, August 10, 2017 regular meeting of the Kentucky Airport Zoning Commission. This letter is to advise you that your permit has been tentatively approved by the Commission pending the FAA Determination. Upon receipt of notification of No Hazard, No IFR/VFR Effects from the FAA and FAA recommended lighting, final approval of your application will be granted and copies forwarded to you.

If you have any questions or would like to check on the status of your permit, please feel free to call me at 859-341-2700.

Sincerely,

John Houlihan Administrator



EXHIBIT G GEOTECHNICAL REPORT



. Geotechnical • Construction Materials • Environmental • Facilities

June 27, 2017

Mr. Jacob Goralski, P.E. Irish Tower, LLC 4603 Bermuda Drive. Sugar Land, TX 77479

ECS Project No. 26:3125-F1

Reference:

Report of Subsurface Exploration and Geotechnical Engineering Services

Symsonia Tower

850 State Route 348 East Symsonia, Kentucky

Dear Mr. Goralski:

ECS Southeast, LLP (ECS) has completed the subsurface exploration for the proposed construction of a self-supported tower located at 850 State Route 348 East, in Symsonia, Kentucky approximately 500 feet east of the intersection with Ham Road. The purpose of these services was to explore the subsurface soil and groundwater conditions at the site, and to develop geotechnical recommendations pertaining to foundation support of the structure. This report explains our understanding of the project, documents our findings, and presents our conclusions and geotechnical engineering recommendations to serve as an aid during the design and construction of the project.

PROJECT INFORMATION AND PROPOSED CONSTRUCTION

The project will consist of the construction of a new 305+-foot tall self-supported tower with a 15-foot lightning arrestor and fenced equipment compound. The proposed tower site is located in a grassy area. See the attached Site Location Diagram (Figure 1) and Boring Location Diagram (Figure 2). We have received preliminary site plans showing the site boundaries and proposed tower location. No loading information was provided for the tower. Based on information provided from the client, the current elevation at the center of the tower is at an approximate elevation of 416 feet MSL. To achieve the proposed grading at the tower site, we anticipate that negligible cut and fill will be required. We do not anticipate that any significant stormwater management (SWM) facilities or site retaining walls will be required for this project.

EXPLORATION PROCEDURES

The site subsurface conditions were explored on June 15, 2017 through the completion of three Standard Penetration Test (SPT) borings drilled 35 feet from the staked center of the tower location. The borings were drilled to auger refusal. The approximate boring locations are shown on the attached Boring Location diagram (Figure 2). The boring locations were based on a survey stake-out that was performed by others. Prior to drilling, underground utilities were cleared through the Kentucky 811system.

A CME 55 truck-mounted drill rig was utilized to complete the SPT borings. The drill rig utilized 3 1/4 inch hollow stem augers to advance the boreholes. Representative soil samples were secured by means of conventional split-barrel sampling procedures (ASTM D1586). In this procedure, a 2-inch O.D., split-barrel sampler is driven into the soil a distance of 18 inches by a 140-pound hammer falling 30 inches. The number of blows required to drive the sampler Symsonia Tower ECS Project No. 26:3125-F1 June 27, 2017 Page 2

through the final 12-inch interval, after initial setting of 6 inches, is termed the Standard Penetration Test (SPT) value or N-value, and is indicated for each sample on the attached boring log.

The SPT values can be used as a qualitative indication of the in-place relative density of cohesionless soils, and as a relative indication of consistency in cohesive soils. This indication is qualitative, since many factors can significantly affect the standard penetration resistance value and prevent a direct correlation between drill crews, drill rigs, drilling procedures, and hammer-rod-sampler assemblies. The drill rig utilized an automatic hammer to drive the sampler.

Field logs of the soil encountered at the boring locations were maintained by the drilling crew. After recovery, each geotechnical sample was removed from the sampler and visually classified by the driller. Representative portions of each soil sample were then sealed in plastic bags and transported to our laboratory in Nashville (Franklin), Tennessee for further visual examination. Observations for groundwater were made during sampling and upon completion of the drilling operations. After completion of the drilling operations, the boreholes were backfilled with auger cuttings and excess soil was mounded at the surface.

CLASSIFICATION AND LABORATORY TESTING PROCEDURES

A geotechnical engineer classified each soil sample on the basis of texture and plasticity in accordance with the Unified Soil Classification System (ASTM D 2487). The group symbols for each soil type are indicated in parentheses following the soil descriptions on the boring logs summary. A brief explanation of the Unified Soil Classification System (USCS) is included with this report. The engineer grouped the various soil types into the major zones noted on the boring logs. The stratification lines designating the interfaces between materials on the exploration records are approximate; in situ, the transitions may be gradual.

The soil samples will be retained in our laboratory for a period of 60 days, after which, they will be discarded unless other instructions are received as to their disposition.

SITE GEOLOGY

The USGS Geologic Map of the Symsonia Quadrangle (1964) indicates this particular site is underlain by Loess sands. The loess sands typically consist of light olive gray to yellowish brown silt and fine sand. Lower lying elevations (less than EL. 500 ft) typically include cross-bedded silts and sands, while the loess materials mantle most of the upland areas (often 3 to 4 feet thick). In select areas, the loess deposits have eroded away. Black carbonized plant and wood materials may sometimes be encountered beneath the loess materials in the eolian sands.

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Figure 1 - USGS Geologic Map of the Symsonia Quadrangle (approximate site location highlighted)

SUBSURFACE CONDITIONS

The subsurface conditions discussed in the following paragraphs, and those shown on the boring logs, represent an estimate of the subsurface conditions based on interpretation of the exploration data using normally accepted geotechnical engineering judgments. It should be noted that the transition between different soil strata is often less distinct than what is shown on the exploration records.

In general, the exploration revealed approximately 8 to 10 inches of topsoil overlying silt to depths ranging from approximately 19½ to 22 feet. SPT N-values for the silt materials varied from 6 to 24 blows per foot (bpf). Auger refusal was encountered at each boring location at depths ranging from approximately 19½ to 22 feet below the existing ground surface. The encountered conditions are shown on the attached boring logs.

Groundwater was not encountered at the time of our exploration. It should be noted that groundwater can vary on a seasonal basis due to precipitation, evaporation, surface run-off, area stream levels and other factors not immediately apparent at the time of this exploration. It is also possible for groundwater to exist in a perched condition within the soil overburden or at the soil/rock interface.

ANALYSIS AND RECOMMENDATIONS

General

The following recommendations have been developed on the basis of the previously described project information and subsurface conditions identified during this study. If there are any changes to the project characteristics, or if differing subsurface conditions are encountered during construction, ECS should be consulted so that the recommendations of this report can be reviewed and revised, as necessary.

Subgrade Preparation

Vegetation, topsoil, and all other soft, unsuitable, or deleterious material should be removed from the existing ground surface at the foundation areas. These operations should extend at least 5 feet beyond the edge of planned structures, where practical. After examining the exposed soils, loose and yielding areas should be identified by proofrolling with an approved piece of equipment, such as a loaded dump truck, having an axle weight of at least 10 tons. Unsuitable or unstable subgrade materials may require moisture conditioning, in-place densification, or removal and replacement with new engineered fill.

Engineered Fill

The first layer of fill should be placed in a relatively uniform horizontal lift and be adequately keyed into the stripped and scarified subgrade soils. Fill materials should be free of organics, wet/frozen materials, or other deleterious materials. Engineered fill materials should consist of low to moderately plastic clays and silts, or coarse grained material such as sand and gravel, with a maximum Liquid Limit no greater than 50, and a maximum Plasticity Index no greater than 30. In general, we recommend material to be used as engineered fill have a Standard Proctor maximum dry density of at least 90 pcf. Engineered soil fill should be placed in maximum loose lifts of 8 inches and compacted to at least 95 percent of the Standard Proctor (ASTM D698) maximum dry density, with the upper 2 feet compacted to at least 98 percent of the same standard. Soil engineered fill should be compacted within 2 percentage points of the optimum moisture content, per the Standard Proctor method. Soil fill should not contain rock material greater than 4 inches in diameter.

Symsonia Tower ECS Project No. 26:3125-F1 June 27, 2017 Page 4

Fill operations should be observed on a full-time basis by an experienced engineering technician to determine the required degree of compaction is being achieved. We recommend that a minimum of one compaction test per 2,500 square-foot area be performed for each lift of engineered fill for structural areas, and that at least one test per lift per 100 linear feet of utility trench backfill.

Equipment Shelter Foundations

Based upon our findings, the equipment shelter may be supported by a turned-down monolithic slab-on-grade with foundation elements bearing on the undisturbed natural residual soils or properly-compacted engineered fill. These foundations can be designed for a maximum net allowable soil bearing pressure of up to 2,500 psf. For footings constructed in accordance with the requirements outlined in this report, maximum total settlement is expected to be less than 1 inch (plus any consolidation settlement from new fill loads). Maximum differential settlement is expected to be half the total settlement. Shallow foundations should be designed to bear at least 18 inches below the final exterior grades. The slab-on-grade may be designed using a modulus of subgrade reaction of 100 pounds per cubic inch (pci). A layer of free draining gravel may be used underlying the slab to serve as a leveling pad and provide a capillary break. All slab and foundation subgrades should be evaluated immediately prior to concrete placement by ECS to verify that the exposed subgrades are capable of satisfactorily supporting the design loads.

Self-support Tower Foundation

The proposed tower can be supported on drilled shaft (caisson) foundations. Based on previous experience with tower structures, we anticipate that wind loading, associated uplift resistance, and lateral loading may control the sizing and depth of the tower foundation. We have provided estimated soil parameters at various depths to aid in drilled shaft foundation design in the attached Geotechnical Data Form.

Uplift forces can be resisted by the factored weight of the shaft and the side shear along the circumference of the shaft (skin friction). The compression forces can be resisted by the side shear along the circumference of the shaft and the end bearing capacity. In determining the dimensions of the drilled shafts, we recommend that a minimum factor of safety of 1.25 with regard to the weight of the concrete should be used in conjunction with the presented allowable side shear values. For uplift and compression, we recommend no contribution to resisting loads be considered from side shear within 5 feet of the ground surface, soft clay or from potentially liquefiable zones.

Casing of the excavation may be required, depending on the condition of the soils and the ground water elevation at the time of construction. Once the bearing level is reached, all loose materials and any accumulated water seepage should be removed prior to placement of pier reinforcing cage and concrete. Up to 1 inch of water standing in the base of the pier is acceptable at the time of concrete placement and an inflow rate of 1 inch per 5 minutes is also acceptable. Higher inflow rates, which could likely be encountered, may require additional control or that drilled shaft concrete be placed by tremie method. The drilled shaft contractor should be prepared to handle such a condition and to ensure suitable end bearing conditions.

The drilled shaft concrete should be placed in intimate contact with undisturbed natural soil/rock. To reduce the potential for arching, we recommend the drilled shaft concrete mix be designed for a slump of 5 to 7 inches. Provided water seepage is minimal, our experience and current research in the field indicates that the drilled shafts can be constructed by "free fall" placement of concrete without affecting the strength and quality of concrete. The concrete should "free fall" without hitting the sides of the casing or reinforcing steel. The use of a hopper or other suitable

Symsonia Tower ECS Project No. 26:3125-F1 June 27, 2017 Page 5

device is recommended to control concrete placement and direct it toward the center of the shaft. The placement of concrete in the cased shaft should proceed until the concrete level is above the external fluid level and should be maintained above this level throughout casing removal. However, if significant seepage is present within the excavation or if slurry is used, it will be necessary to place the concrete by tremie method, and we recommend a concrete slump of 7 to 9 inches for this method of concrete placement.

The shaft design and construction procedures should be reviewed with the foundation contractor prior to the start of construction. If you desire, we would be pleased to review the plans and specifications for the project once they are completed so we may have the opportunity to comment on the impact of the soil/rock and groundwater conditions on the final design.

Seismic Site Classification

Based on our interpretation of the International Building Code (IBC) 2012, it is our opinion that a Seismic Site Class "C" is appropriate for this site. In accordance with IBC 2012 and United States Geological Survey's (USGS) Seismic Hazard Curves and Uniform Hazard Response Spectra program, the following parameters may be used in design:

- Latitude: 36.91825, Longitude: -88.50939
- $S_s = 1.077, S_t = 0.369$
- $S_{MS} = 1.077$, $S_{M1} = 0.528$
- $S_{DS} = 0.718, S_{D1} = 0.352$

*Spectral accelerations were determined from USGS National Seismic Hazard Maps

General Construction Considerations

Positive site drainage should be maintained during earthwork operations and should help maintain the integrity of the soil. Placement of fill on the near surface soils which have become saturated may be very difficult. When wet, these soils will degrade quickly with disturbance from contractor operations and will be extremely difficult to stabilize for fill placement.

The surficial soils are considered moderately erodible. All erosion and sedimentation shall be controlled in accordance with Best Management Practices and current County requirements. At the appropriate time, we would be pleased to provide a proposal for NPDES monitoring and construction materials testing related services.

Symsonia Tower ECS Project No 26:3125-F1 June 27, 2017 Page 6

CLOSING

Our professional services have been performed, our findings obtained, and our recommendations prepared in accordance with generally accepted geotechnical engineering principles and practices. ECS is not responsible for the conclusions, opinions, or recommendations made by others based on these data. No third party is given the right to rely on this report without express written permission.

The scope of services for this study does not include environmental assessment or investigation for the presence or absence of wetlands, hazardous or toxic materials in the soil or groundwater within or beyond the site studied. Any statements in this report regarding odors, staining of soils, or other unusual conditions observed are strictly for the information of our client.

We appreciate this opportunity to be of service to you during the design phase of this project. If you have any questions with regard to the information and recommendations presented in this report, please do not hesitate to contact us.

Respectfully.

ECS SOUTHEAST, LLP

Brooke Ferry, E.I.

Brooke temp-

Geotechnical Project Manager

Donald L. Anderson

Principal Reviewer

Mark D. Luskin, P.E., Engineering Manager

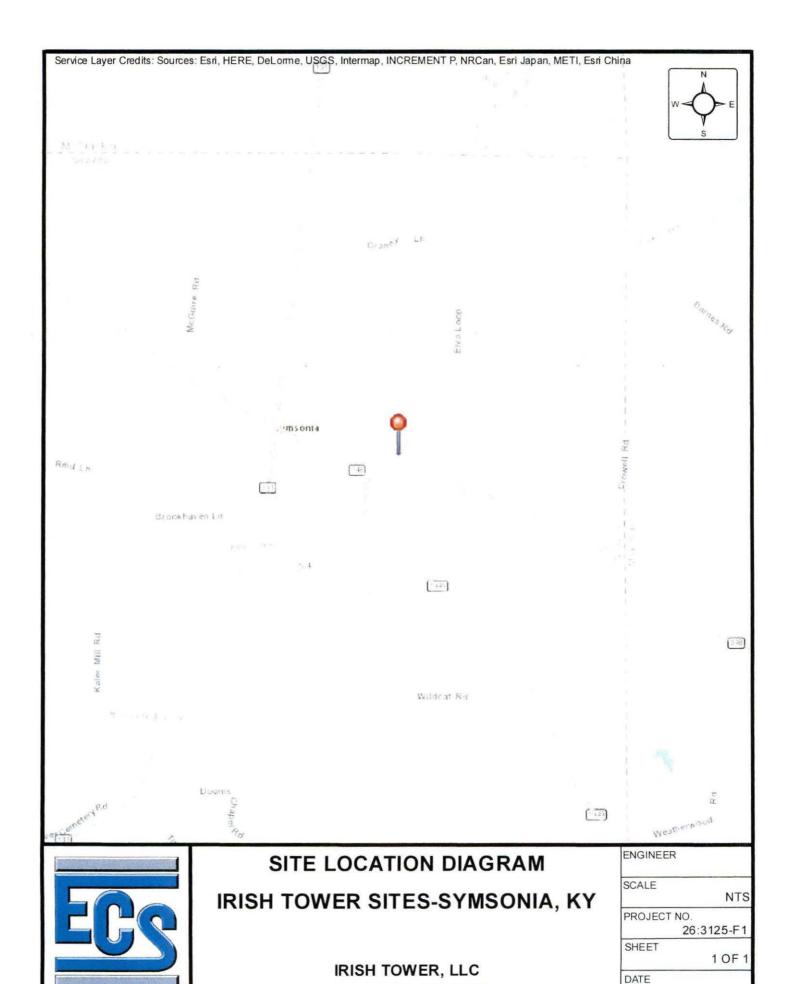
Attachments: Figure 1: Site Location Map

Figure 2: Boring Location Diagrams

Geotechnical Data Form

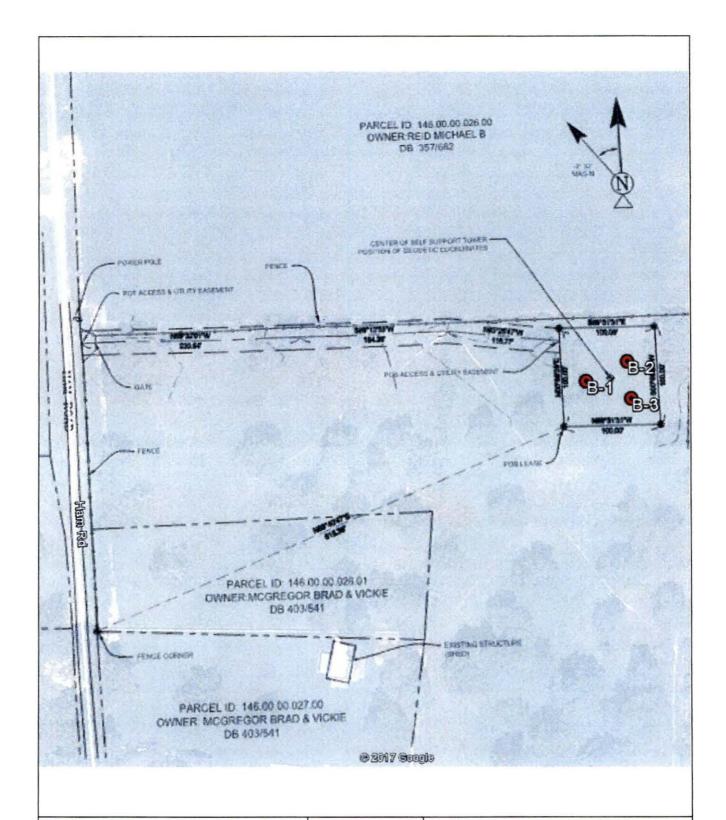
SPT Boring Log (B-1 through B-3) Reference Notes for Boring Logs

USGS Summary Report



SYMSONIA KY 42082

6/9/2017



Symsonia

850 State Rout 348 East Symsonia, KY ECS Project No. 26:3125-F1



Figure 2: Boring Location Diagram

GEOTECHNICAL DATA FORM

Background Information

Client: Irish Tower, LLC

Project: Symsonia Tower

Location: Ham Road, Symsonia, Kentucky

ECS Project No.: 26:3125-J

Type: Height: Self Supported

305'+/-



Subsurface Conditions

Depth (feet)	Soil Behavior Type	Average N (spt)	Relative Density/Consistency	USCS Classificati on
0 - 22	SILT	8	Loose	ML
22+	SANDSTONE	50/0		•

Estimated Soil Parameters for LPILE

Depth (feet)	LPILE Soil Type	γ (pcf)	S _u (psf)	6 '	K*	E ₅₀ *
0 - 22	Medium Dense Silt	115	-	32	90	-
22+	Sandstone	135	5000+	*	2000	0.00

γ= In-situ Soil Density

Su= Undrained Shear Strength

6'= Effective Friction Angle

K= Horizontal Subgrade Reaction

Foundation Recommendations

For Drilled Shaft Foundations**

Depth (ft)	Allowable End Bearing (KSF)
0 - 22	2.5
22 - 30	8
*30+	50

Depth Interval	Allowable Average Side Friction (PSF)
0 - 10	150
10 - 22	350
22 - 30	2000
*30+	3000

^{**}Ignore in top 5 feet in design, minimum embedment depth of 10% tower height applies.

Construction Criteria

- Proofroil site prior to construction to detect unsuitable soil near the surface.
 Compact building pads/roadway subgrade and each 8 inch lift of approved fill to 95% maximum dry density in accordance with ASTM D698 standard proctor.
 Approved fill materials are soils with less than 3% organics, less than 50 liquid limit and less than 30 plastic index.
 Foundation construction should be observed by Geotechnical Engineer.
 Drilled shaft foundations should be installed in accordance with the requirements of the Deep Foundation Institute and monitored by the Geotechnical Engineer.

^{*}Parameters estimated from values suggested in LPILE user manual.

^{*}Paramaters were increased with embedment depth due to anticipated increase in bedrock quality

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REFERENCE NOTES FOR BORING LOGS

MATERIAL1,	2						
	ASPH	ALT					
	CONCRETE						
80000	GRAVEL						
3505	TOPS	OIL					
	VOID						
	BRICK	<					
80001	AGGR	EGATE BASE COURSE					
8. 8% a	FILL ³	MAN-PLACED SOILS					
44.4	GW	WELL-GRADED GRAVEL gravel-sand mixtures, little or no fines					
5.4	GP	POORLY-GRADED GRAVEL gravel-sand mixtures, little or no fines					
HH	GM	SILTY GRAVEL gravel-sand-silt mixtures					
10,2	GC	CLAYEY GRAVEL gravel-sand-clay mixtures					
	SW	WELL-GRADED SAND gravelly sand, little or no fines					
	SP	POORLY-GRADED SAND gravelly sand, little or no fines					
6 0 0 0 5 X 6 8 8 8 5 8 6 0 0 0 5 X	SM	SILTY SAND sand-silt mixtures					
7777	SC	CLAYEY SAND sand-clay mixtures					
	ML	SILT non-plastic to medium plasticity					
Ш	МН	ELASTIC SILT high plasticity					
7///	CL	LEAN CLAY low to medium plasticity					
1/1	СН	FAT CLAY high plasticity					
	OL	ORGANIC SILT or CLAY non-plastic to low plasticity					
1000	ОН	ORGANIC SILT or CLAY high plasticity					
	PT	PEAT					

	DRILLING SAMPLI	NG SYMB	OLS & ABBREVIATIONS
SS	Split Spoon Sampler	PM	Pressuremeter Test
ST	Shelby Tube Sampler	RD	Rock Bit Drilling
WS	Wash Sample	RC	Rock Core, NX, BX, AX
BS	Bulk Sample of Cuttings	REC	Rock Sample Recovery %
PA	Power Auger (no sample)	RQD	Rock Quality Designation %
HSA	Hollow Stem Auger		

		PARTICLE SIZE IDENTIFICATION	
DESIGNA	TION	PARTICLE SIZES	
Boulders	3	12 inches (300 mm) or larger	
Cobbles		3 inches to 12 inches (75 mm to 300 mm)	
Gravel:	Coarse	3/4 inch to 3 inches (19 mm to 75 mm)	
	Fine	4.75 mm to 19 mm (No. 4 sieve to 3/4 inch)	
Sand:	Coarse	2.00 mm to 4.75 mm (No. 10 to No. 4 sieve)	
	Medium	0.425 mm to 2.00 mm (No. 40 to No. 10 sieve)	
	Fine	0.074 mm to 0.425 mm (No. 200 to No. 40 sieve)	
Silt & Cla	ay ("Fines")	<0.074 mm (smaller than a No. 200 sieve)	

COHESIV	E SILTS &	CLAYS
UNCONFINED COMPRESSIVE STRENGTH, Qp4	SPT ⁵ (BPF)	CONSISTENCY ⁷ (COHESIVE)
<0.25	<3	Very Soft
0.25 - < 0.50	3 - 4	Soft
0.50 - <1.00	5 - 8	Medium Stiff
1.00 - <2.00	9 - 15	Stiff
2.00 - <4.00	16 - 30	Very Stiff
4.00 - 8.00	31 - 50	Hard
>8.00	>50	Very Hard

RELATIVE AMOUNT ⁷	COARSE GRAINED (%) ⁸	FINE GRAINED (%) ⁸
Trace	≤5	≤5
Dual Symbol (ex: SW-SM)	10	10
With	15 - 20	15 - 25
Adjective (ex: "Silty")	≥25	≥30

GRAVELS, SANDS & NON-COHESIVE SILTS		
SPT ⁵	DENSITY	
<5	Very Loose	
5 - 10	Loose	
11 - 30	Medium Dense	
31 - 50	Dense	
>50	Very Dense	

	WATER LEVELS ⁶		
$\overline{\vee}$	WL	Water Level (WS)(WD)	
		(WS) While Sampling	
		(WD) While Drilling	
$\underline{\underline{\Psi}}$	SHW	Seasonal High WT	
•	ACR	After Casing Removal	
<u>⋄</u>	SWT	Stabilized Water Table	
	DCI	Dry Cave-In	
	WCI	Wet Cave-In	

highly organic soils

¹Classifications and symbols per ASTM D 2488-09 (Visual-Manual Procedure) unless noted otherwise.

²To be consistent with general practice, "POORLY GRADED" has been removed from GP, GP-GM, GP-GC, SP, SP-SM, SP-SC soil types on the boring logs.

³Non-ASTM designations are included in soil descriptions and symbols along with ASTM symbol [Ex: (SM-FILL)].

⁴Typically estimated via pocket penetrometer or Torvane shear test and expressed in tons per square foot (tsf).

⁵Standard Penetration Test (SPT) refers to the number of hammer blows (blow count) of a 140 lb. hammer falling 30 inches on a 2 inch OD split spoon sampler required to drive the sampler 12 inches (ASTM D 1586). "N-value" is another term for "blow count" and is expressed in blows per foot (bpf).

⁶ The water levels are those levels actually measured in the borehole at the times indicated by the symbol. The measurements are relatively reliable when augering, without adding fluids, in granular soils. In clay and cohesive silts, the determination of water levels may require several days for the water level to stabilize. In such cases, additional methods of measurement are generally employed.

⁷Minor deviation from ASTM D 2488-09 Note 16.

⁸Percentages are estimated to the nearest 5% per ASTM D 2488-09.

USGS Design Maps Summary Report

User-Specified Input

Report Title 3125-F1

Thu June 22, 2017 16:54:09 UTC

Building Code Reference Document 2012/2015 International Building Code

(which utilizes USGS hazard data available in 2008)

Site Coordinates 36.91825°N, 88.50939°W

Site Soil Classification Site Class C - "Very Dense Soil and Soft Rock"

Risk Category I/II/III



USGS-Provided Output

$$S_s = 1.077 g$$

$$S_{MS} = 1.077 g$$

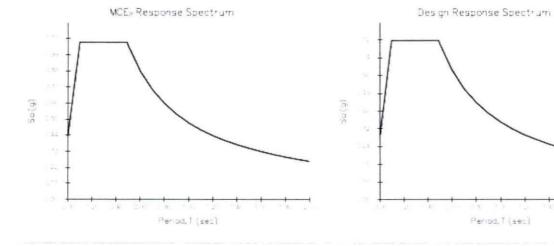
$$S_{ps} = 0.718 g$$

$$S_1 = 0.369 g$$

$$S_{M1} = 0.528 g$$

$$S_{D1} = 0.352 g$$

For information on how the SS and S1 values above have been calculated from probabilistic (risk-targeted) and deterministic ground motions in the direction of maximum horizontal response, please return to the application and select the "2009 NEHRP" building code reference document.



Although this information is a product of the U.S. Geological Survey, we provide no warranty, expressed or implied, as to the accuracy of the date contained therein. This tool is not a substitute for technical subject-matter knowledge.

EXHIBIT H DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site:

- Beginning at the offices of the Graves County Judge Executive, 101 East South Street, Mayfield, KY 42066 start out going east on E South St toward KY-80/KY-121 Bus/S 6th St.
- 2. Take the 1st left onto S 6th St/KY-80/KY-121 Bus.
- 3. Take the 1st right onto E Broadway/KY-58. Continue to follow KY-58.
- Turn left onto State Route 131/KY-131. Continue to follow KY-131.
- 5. Turn right onto State Route 348 E/KY-348.
- 6. Arrive at 850 State Route 348 E, Symsonia, Kentucky on the left.
- 7. The site coordinates are 36°55'07.10" North latitude, 88°30'26.78" West longitude



Prepared by:
Robert W. Grant
Pike Legal Group PLLC
1578 Highway 44 East, Suite 6
PO Box 369

Shepherdsville, KY 40165-0369

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

EXHIBIT I COPY OF REAL ESTATE AGREEMENT

Market Evansville Cell Site Number, KYL03168 Cell Site Name, Symsonia (KY) Fixed Asset Number, 13800773

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 Michael B. Reid and Kathryn M. Reid, as husband and wife, having a mailing address of 1115 Sledd Creek Road, Gilbertsville, KY 42044 ("Landlord") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of 575 Morosgo Drive NE, Atlanta, GA 30324("Tenant").

BACKGROUND

Landlord owns or controls that certain plot, parcel or tract of land, as described on **Exhibit 1**, together with all rights and privileges arising in connection therewith, located off of Ham Road, Parcel I.D. #146.00.00.026.00, in the County of Graves, State of Kentucky (collectively, the "Property"). Tenant desires to use a portion of the Property in connection with its federally licensed communications business. Landlord desires to grant to Tenant the right to use a portion of the Property in accordance with this Agreement.

The parties agree as follows:

1. OPTION TO LEASE.

- (a) Landlord grants to Tenant an option (the "Option") to lease a certain portion of the Property containing approximately 10.000 square feet including the air space above such ground space, as described on attached Exhibit 1 (the "Premises"), for the placement of Tenant's Communication Facility.
- During the Option Term, and during the term of this Agreement, Tenant and its agents, engineers, surveyors and other representatives will have the right to enter upon the Property to inspect, examine, conduct soil borings, drainage testing, material sampling, radio frequency testing and other geological or engineering tests or studies of the Property (collectively, the "Tests"), to apply for and obtain licenses, permits, approvals, or other relief required of or deemed necessary or appropriate at Tenant's sole discretion for its use of the Premises and include, without limitation, applications for zoning variances, zoning ordinances, amendments, special use permits, and construction permits (collectively, the "Government Approvals"), initiate the ordering and/or scheduling of necessary utilities, and otherwise to do those things on or off the Property that, in the opinion of Tenant, are necessary in Tenant's sole discretion to determine the physical condition of the Property, the environmental history of the Property, Landlord's title to the Property and the feasibility or suitability of the Property for Tenant's Permitted Use, all at Tenant's expense. Tenant will not be liable to Landlord or any third party on account of any pre-existing defect or condition on or with respect to the Property, whether or not such defect or condition is disclosed by Tenant's inspection. Tenant will restore the Property to its condition as it existed at the commencement of the Option Term, reasonable wear and tear and loss by casualty or other causes beyond Tenant's control excepted.
- (c) In consideration of Landlord granting Tenant the Option, Tenant agrees to pay Landlord the sum of within forty five (45) business days of the Effective Date. The Option will be for an initial term of one (1) year commencing on the Effective Date (the "Initial Option Term") and may be renewed by Tenant for an additional one (1) year (the "Renewal Option Term") upon written notification to Landlord and the payment of an additional no later than five (5) days prior to the expiration date of the Initial Option Term. The Initial Option Term and any Renewal Option Term are collectively referred to as the "Option Term."
- (d) The Option may be sold, assigned or transferred at any time by Tenant to an Affiliate (as that term is hereinafter defined) of Tenant or to any third party agreeing to be subject to the terms hereof. Otherwise,

the Option may not be sold, assigned or transferred without the written consent of Landlord, such consent not to be unreasonably withheld, conditioned or delayed. From and after the date the Option has been sold, assigned or transferred by Tenant to an Affiliate or a third party agreeing to be subject to the terms hereof. Tenant shall immediately be released from any and all liability under this Agreement, including the payment of any rental or other sums due, without any further action.

- (e) During the Option Term. Tenant may exercise the Option by notifying Landlord in writing. If Tenant exercises the Option then Landlord leases the Premises to Tenant subject to the terms and conditions of this Agreement. If Tenant does not exercise the Option during the Initial Option Term or any extension thereof, this Agreement will terminate and the parties will have no further liability to each other.
- (f) If during the Option Term, or during the term of this Agreement the Option is exercised. Landlord decides to subdivide, sell, or change the status of the zoning of the Premises, Property or any of Landlord's contiguous, adjoining or surrounding property (the "Surrounding Property,") or in the event of foreclosure, Landlord shall immediately notify Tenant in writing. Landlord agrees that during the Option Term, or during the Term of this Agreement if the Option is exercised, Landlord shall not initiate or consent to any change in the zoning of the Premises, Property or Surrounding Property or impose or consent to any other use or restriction that would prevent or limit Tenant from using the Premises for the Permitted Use. Any and all terms and conditions of this Agreement that by their sense and context are intended to be applicable during the Option Term shall be so applicable.
- PERMITTED USE. 2. Tenant may use the Premises for the transmission and reception of communications signals and the installation, construction, maintenance, operation, repair, replacement and upgrade of its communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable support structure, associated antennas, equipment shelters or cabinets and fencing and any other items necessary to the successful and secure use of the Premises (collectively, the "Communication Facility"), as well as the right to test, survey and review title on the Property; Tenant further has the right but not the obligation to add, modify and/or replace equipment in order to be in compliance with any current or future federal, state or local mandated application, including, but not limited to, emergency 911 communication services, at no additional cost to Tenant or Landlord (collectively, the "Permitted Use"). Landlord and Tenant agree that any portion of the Communication Facility that may be conceptually described on Exhibit 1 will not be deemed to limit Tenant's Permitted Use. If Exhibit 1 includes drawings of the initial installation of the Communication Facility, Landlord's execution of this Agreement will signify Landlord's approval of Exhibit 1. For a period of ninety (90) days following the start of construction, Landlord grants Tenant, its subtenants, licensees and sublicensees, the right to use such portions of Landlord's contiguous, adjoining or Surrounding Property as described on Exhibit 1 as may reasonably be required during construction and installation of the Communication Facility. Tenant will make best efforts to restore such portions of Landlord's contiguous, adjoining or Surrounding Property as described on Exhibit 1. Tenant has the right to install and operate transmission cables from the equipment shelter or cabinet to the antennas, electric lines from the main feed to the equipment shelter or cabinet and communication lines from the Property's main entry point to the equipment shelter or cabinet, and to make other improvements, alterations, upgrades or additions appropriate for Tenant's Permitted Use, including the right to construct a fence around the Premises and undertake any other appropriate means to secure the Premises at Tenant's expense. Tenant has the right to modify, supplement, replace, upgrade, expand the equipment, increase the number of antennas or relocate the Communication Facility within the Premises at any time during the term of this Agreement. Tenant will be allowed to make such alterations to the Property in order to ensure that Tenant's Communication Facility complies with all applicable federal, state or local laws, rules or regulations.

TERM.

(a) The initial lease term will be five (5) years (the "Initial Term"), commencing on the effective date of written notification by Tenant to Landlord of Tenant's exercise of the Option (the "Term Commencement Date"). The Initial Term will terminate on the fifth (5th) anniversary of the Term Commencement Date.

- (b) This Agreement will automatically renew for four (4) additional five (5) year term(s) (each five (5) year term shall be defined as an "Extension Term"), upon the same terms and conditions unless Tenant notifies Landlord in writing of Tenant's intention not to renew this Agreement at least sixty (60) days prior to the expiration of the Initial Term or then-existing Extension Term.
- (e) Unless (i) Landlord or Tenant notifies the other in writing of its intention to terminate this Agreement at least six (6) months prior to the expiration of the final Extension Term, or (ii) the Agreement is terminated as otherwise permitted by this Agreement prior to the end of the final Extension Term, then upon the expiration of the final Extension Term, this Agreement shall continue in force upon the same covenants, terms and conditions for a further term of one (1) year, and for annual terms thereafter ("Annual Term") until terminated by either party by giving to the other written notice of its intention to so terminate at least six (6) months prior to the end of any such Annual Term. Monthly rental during such Annual Terms shall be equal to the Rent paid for the last month of the final Extension Term. If Tenant remains in possession of the Premises after the termination of this Agreement, then Tenant will be deemed to be occupying the Premises on a month-to-month basis (the "Holdover Term"), subject to the terms and conditions of this Agreement.
- (d) The Initial Term, any Extension Terms, any Annual Terms and any Holdover Term are collectively referred to as the Term (the "Term").

4. RENT.

- (a) Commencing on the first day of the month following the date that Tenant commences construction (the "Rent Commencement Date"), Tenant will pay Landlord on or before the fifth (5th) day of each calendar month in advance (the "Rent"), at the address set forth above. In any partial month occurring after the Rent Commencement Date, Rent will be prorated. The initial Rent payment will be forwarded by Tenant to Landlord within forty-five (45) days after the Rent Commencement Date.
 - (b) In year one (1) of each Extension Term, the monthly Rent will increase by over the Rent paid during the previous five (5) year term.
- (c) All charges payable under this Agreement such as utilities and taxes shall be billed by Landlord within one (1) year from the end of the calendar year in which the charges were incurred; any charges beyond such period shall not be billed by Landlord, and shall not be payable by Tenant. The foregoing shall not apply to monthly Rent which is due and payable without a requirement that it be billed by Landlord. The provisions of this subsection shall survive the termination or expiration of this Agreement.

APPROVALS.

- (a) Landlord agrees that Tenant's ability to use the Premises is contingent upon the suitability of the Premises and Property for Tenant's Permitted Use and Tenant's ability to obtain and maintain all Government Approvals. I andlord authorizes Tenant to prepare, execute and file all required applications to obtain Government Approvals for Tenant's Permitted Use under this Agreement and agrees to reasonably assist Tenant with such applications and with obtaining and maintaining the Government Approvals.
- (b) Tenant has the right to obtain a title report or commitment for a leasehold title policy from a title insurance company of its choice and to have the Property surveyed by a surveyor of its choice.
- (c) Tenant may also perform and obtain, at Tenant's sole cost and expense, soil borings, percolation tests, engineering procedures, environmental investigation or other tests or reports on, over, and under the Property, necessary to determine if Tenant's use of the Premises will be compatible with Tenant's engineering specifications, system, design, operations or Government Approvals.
- 6. TERMINATION. This Agreement may be terminated, without penalty or further liability, as follows:
- (a) by either party on thirty (30) days prior written notice, if the other party remains in default under Section 15 of this Agreement after the applicable cure periods:
- (b) by Tenant upon written notice to Landlord, if Tenant is unable to obtain or maintain, any required approval(s) or the issuance of a license or permit by any agency, board, court or other governmental authority necessary for the construction or operation of the Communication Facility as now or hereafter intended

by Tenant; or if Tenant determines, in its sole discretion that the cost of or delay in obtaining or retaining the same is commercially unreasonable:

- (c) by Tenant, upon written notice to Landlord, if Tenant determines, in its sole discretion, due to the title report results or survey results, that the condition of the Premises is unsatisfactory for its intended uses;
- (d) by Tenant upon written notice to Landlord for any reason or no reason, at any time prior to commencement of construction by Tenant; or
- (e) by Tenant upon sixty (60) days' prior written notice to Landlord for any reason or no reason, so long as Tenant pays Landlord a termination fee equal to three (3) months' Rent, at the then-current rate, provided, however, that no such termination fee will be payable on account of the termination of this Agreement by Tenant under any termination provision contained in any other Section of this Agreement, including the following: 5 Approvals, 6(a) Termination, 6(b) Termination, 6(c) Termination, 6(d) Termination, 11(d) Environmental, 18 Condemnation, or 19 Casualty.

INSURANCE.

(a) During the Term, Tenant will carry, at its own cost and expense, the following insurance: (i) workers' compensation insurance as required by law; and (ii) commercial general liability (CGL) insurance with respect to its activities on the Property, such insurance to afford protection of up to

per occurrence and general aggregate, based on Insurance Services Office (ISO) Form CG 00 01 or a substitute form providing substantially equivalent coverage. Tenant's CGL insurance shall contain a provision including Landlord as an additional insured. Such additional insured coverage:

- (i) shall be limited to bodily injury, property damage or personal and advertising injury caused, in whole or in part, by Tenant, its employees, agents or independent contractors;
- (ii) shall not extend to claims for punitive or exemplary damages arising out of the acts or omissions of Landlord, its employees, agents or independent contractors or where such coverage is prohibited by law or to claims arising out of the gross negligence of Landlord, its employees, agents or independent contractors; and
 - (iii) shall not exceed Tenant's indemnification obligation under this Agreement, if any,
- (b) Notwithstanding the foregoing. Tenant shall have the right to self-insure the coverages required in subsection (a). In the event Tenant elects to self-insure its obligation to include Landlord as an additional insured, the following provisions shall apply (in addition to those set forth in subsection (a)):
 - (i) Landlord shall promptly and no later than thirty (30) days after notice thereof provide Tenant with written notice of any claim, demand, lawsuit, or the like for which it seeks coverage pursuant to this Section and provide Tenant with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like;
 - (ii) Landlord shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of Tenant; and
 - (iii) Landlord shall fully cooperate with Tenant in the defense of the claim, demand, lawsuit, or the like.

8. INTERFERENCE.

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

9. INDEMNIFICATION.

- (a) Tenant agrees to indemnify, defend and hold Landlord harmless from and against any and all injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) arising directly from the installation, use, maintenance, repair or removal of the Communication Facility or Tenant's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Landlord, its employees, agents or independent contractors.
- (b) Landlord agrees to indemnify, defend and hold Tenant harmless from and against any and all injury, loss, damage or liability (or any claims in respect of the foregoing), costs or expenses (including reasonable attorneys' fees and court costs) arising directly from the actions or failure to act of Landlord, its employees or agents, or Landlord's breach of any provision of this Agreement, except to the extent attributable to the negligent or intentional act or omission of Tenant, its employees, agents or independent contractors.
- (c) The indemnified party: (i) shall promptly provide the indemnifying party with written notice of any claim, demand, lawsuit, or the like for which it seeks indemnification pursuant to this Section and provide the indemnifying party with copies of any demands, notices, summonses, or legal papers received in connection with such claim, demand, lawsuit, or the like; (ii) shall not settle any such claim, demand, lawsuit, or the like without the prior written consent of the indemnifying party; and (iii) shall fully cooperate with the indemnifying party in the defense of the claim, demand, lawsuit, or the like. A delay in notice shall not relieve the indemnifying party of its indemnity obligation, except (1) to the extent the indemnifying party can show it was prejudiced by the delay; and (2) the indemnifying party shall not be liable for any settlement or litigation expenses incurred before the time when notice is given.

WARRANTIES.

- (a) Tenant and Landlord each acknowledge and represent that it is duly organized, validly existing and in good standing and has the right, power and authority to enter into this Agreement and bind itself hereto through the party set forth as signatory for the party below.
- (b) Landlord represents, warrants and agrees that: (i) Landlord solely owns the Property as a legal lot in fee simple, or controls the Property by lease or license; (ii) the Property is not and will not be encumbered by any liens, restrictions, mortgages, covenants, conditions, easements, leases, or any other agreements of record or not of record, which would adversely affect Tenant's Permitted Use and enjoyment of the Premises under this

Agreement; (iii) as long as Tenant is not in default then Landlord grants to Tenant sole, actual, quiet and peaceful use, enjoyment and possession of the Premises without hindrance or ejection by any persons lawfully claiming under Landlord; (iv) Landlord's execution and performance of this Agreement will not violate any laws, ordinances, covenants or the provisions of any mortgage, lease or other agreement binding on Landlord; and (v) if the Property is or becomes encumbered by a deed to secure a debt, mortgage or other security interest. Landlord will provide promptly to Tenant a mutually agreeable subordination, non-disturbance and attornment agreement executed by Landlord and the holder of such security interest.

11. ENVIRONMENTAL.

- (a) Landlord represents and warrants that, except as may be identified in **Exhibit 11** attached to this Agreement, (i) the Property, as of the date of this Agreement, is free of hazardous substances, including asbestos-containing materials and lead paint, and (ii) the Property has never been subject to any contamination or hazardous conditions resulting in any environmental investigation, inquiry or remediation. Landlord and Tenant agree that each will be responsible for compliance with any and all applicable governmental laws, rules, statutes, regulations, codes, ordinances, or principles of common law regulating or imposing standards of liability or standards of conduct with regard to protection of the environment or worker health and safety, as may now or at any time hereafter be in effect, to the extent such apply to that party's activity conducted in or on the Property.
- (b) Landlord and Tenant agree to hold harmless and indemnify the other from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of the indemnifying party for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any action, notice, claim, order, summons, citation, directive, litigation, investigation or proceeding ("Claims"), to the extent arising from that party's breach of its obligations or representations under Section 11(a). Landlord agrees to hold harmless and indemnify Tenant from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Landlord for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from subsurface or other contamination of the Property with hazardous substances prior to the Effective Date of this Agreement or from such contamination caused by the acts or omissions of Landlord during the Term. Tenant agrees to hold harmless and indemnify Landlord from, and to assume all duties, responsibilities and liabilities at the sole cost and expense of Tenant for, payment of penalties, sanctions, forfeitures, losses, costs or damages, and for responding to any Claims, to the extent arising from hazardous substances brought onto the Property by Tenant.
- (c) The indemnifications of this Section 11 specifically include reasonable costs, expenses and fees incurred in connection with any investigation of Property conditions or any clean-up, remediation, removal or restoration work required by any governmental authority. The provisions of this Section 11 will survive the expiration or termination of this Agreement.
- (d) In the event Tenant becomes aware of any hazardous substances on the Property, or any environmental, health or safety condition or matter relating to the Property, that, in Tenant's sole determination, renders the condition of the Premises or Property unsuitable for Tenant's use, or if Tenant believes that the leasing or continued leasing of the Premises would expose Tenant to undue risks of liability to a government agency or other third party. Tenant will have the right, in addition to any other rights it may have at law or in equity, to terminate this Agreement upon written notice to Landlord.
- 12. ACCESS. At all times throughout the Term of this Agreement, and at no additional charge to Tenant, Tenant and its employees, agents, and subcontractors, will have twenty-four (24) hour per day, seven (7) day per week pedestrian and vehicular access ("Access") to and over the Property, from an open and improved public road to the Premises, for the installation, maintenance and operation of the Communication Facility and any utilities serving the Premises. As may be described more fully in Exhibit 1, Landlord grants to Tenant an easement for such Access and Landlord agrees to provide to Tenant such codes, keys and other instruments necessary for such Access at no additional cost to Tenant. Upon Tenant's request, Landlord will execute a separate recordable easement evidencing this right. Landlord shall execute a letter granting Tenant Access to the Property substantially in the form attached as Exhibit 12; upon Tenant's request, Landlord shall execute additional letters during the Term. Landlord acknowledges that in the event Tenant cannot obtain Access to the

Premises, Tenant shall incur significant damage. If Landlord fails to provide the Access granted by this Section 12, such failure shall be a default under this Agreement. In connection with such default, in addition to any other rights or remedies available to Tenant under this Agreement or at law or equity, Landlord shall pay Tenant, as liquidated damages and not as a penalty. In consideration of Tenant's damages until Landlord cures such default. Landlord and Tenant agree that Tenant's damages in the event of a denial of Access are difficult, if not impossible, to ascertain, and the liquidated damages set forth above are a reasonable approximation of such damages.

13. REMOVAL/RESTORATION. All portions of the Communication Facility brought onto the Property by Tenant will be and remain Tenant's personal property and, at Tenant's option, may be removed by Tenant at any time during or after the Term. Landlord covenants and agrees that no part of the Communication Facility constructed, erected or placed on the Premises by Tenant will become, or be considered as being affixed to or a part of, the Property, it being the specific intention of Landlord that all improvements of every kind and nature constructed, erected or placed by Tenant on the Premises will be and remain the property of Tenant and may be removed by Tenant at any time during or after the Term. Tenant will repair any damage to the Property resulting from Tenant's removal activities. Any portions of the Communication Facility that Tenant does not remove within one hundred twenty (120) days after the later of the end of the Term and cessation of Tenant's operations at the Premises shall be deemed abandoned and owned by Landlord. However, to the extent required by law, Tenant will remove the above-ground portions of the Communications Facility within such one hundred twenty (120) day period. Notwithstanding the foregoing, Tenant will not be responsible for the replacement of any trees, shrubs or other vegetation.

14. MAINTENANCE/UTILITIES.

- (a) Tenant will keep and maintain the Premises in good condition, reasonable wear and tear and damage from the elements excepted. 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.
- Tenant will be responsible for paving on a monthly or quarterly basis all utilities charges for electricity, telephone service or any other utility used or consumed by Tenant on the Premises. In the event Tenant cannot secure its own metered electrical supply. Tenant will have the right, at its own cost and expense, to submeter from Landlord. When submetering is required under this Agreement. Landlord will read the meter and provide Tenant with an invoice and usage data on a monthly basis. Landlord agrees that it will not include a markup on the utility charges. Landlord further agrees to provide the usage data and invoice on forms provided by Tenant and to send such forms to such address and/or agent designated by Tenant. Tenant will remit payment within forty-five (45) days of receipt of the usage data and required forms. As noted in Section 4(c) above, any utility fee recovery by Landlord is limited to a twelve (12) month period. If Tenant submeters electricity from Landlord, Landlord agrees to give Tenant at least twenty-four (24) hours advance notice of any planned interruptions of said electricity. Landlord acknowledges that Tenant provides a communication service which requires electrical power to operate and must operate twenty-four (24) hours per day, seven (7) days per week. If the interruption is for an extended period of time, in Tenant's reasonable determination, Landlord agrees to allow Fenant the right to bring in a temporary source of power for the duration of the interruption. Landlord will not be responsible for interference with, interruption of or failure, beyond the reasonable control of Landlord, of such services to be furnished or supplied by Landlord.
- (c) Landlord hereby grants to any company providing utility or similar services, including electric power and telecommunications, to Tenant an easement over the Property, from an open and improved public road to the Premises, and upon the Premises, for the purpose of constructing, operating and maintaining such lines, wires, circuits, and conduits, associated equipment cabinets and such appurtenances thereto, as such companies may from time to time require in order to provide such services to the Premises. Upon Tenant's or the service company's request, Landlord will execute a separate recordable easement evidencing this grant, at no cost to Tenant or the service company.

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, I andlord will have the right to exercise any and all rights and remedies available to it under law and equity.
- (b) The following will be deemed a default by Landlord and a breach of this Agreement: (i) Landlord's failure to provide Access to the Premises as required by Section 12 of this Agreement within twenty-four (24) hours after written notice of such failure; (ii) Landlord's failure to cure an interference problem as required by Section 8 of this Agreement within twenty-four (24) hours after written notice of such failure; or (iii) Landlord's failure to perform any term, condition or breach of any warranty or covenant under this Agreement within forty-five (45) days after written notice from Tenant specifying the failure. No such failure, however, will be deemed to exist if Landlord has commenced to cure the default within such period and provided such efforts are prosecuted to completion with reasonable diligence. Delay in curing a default will be excused if due to causes beyond the reasonable control of Landlord. If Landlord remains in default beyond any applicable cure period, Tenant will have: (i) the right to cure Landlord's default and to deduct the costs of such cure from any monies due to Landlord from Tenant, and (ii) any and all other rights available to it under law and equity.
- 16. <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:

New Cingular Wireless PCS, LLC

Attn: Network Real Estate Administration

Re: Cell Site #KYL03168; Cell Site Name: Symsonia (KY)

Fixed Asset No.: 13800773 575 Morosgo Drive NE Atlanta, GA 30324

With a copy to:

New Cingular Wireless PCS, LLC

Attn.: Legal Department

Re: Cell Site #: KYL03168; Cell Site Name: Symsonia (KY)

Fixed Asset No.: 13800773

208 S. Akard Street Dallas, TX 75202-4206

The copy sent to the Legal Department is an administrative step which alone does not constitute legal notice.

If to Landlord: Michael B. Reid and Kathryn M. Reid

1115 Sledd Creek Road Gilbertsville, KY 42044

Either party hereto may change the place for the giving of notice to it by thirty (30) days' prior written notice to the other as provided herein.

- 18. <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 forty-eight (48) hours. If a condemning authority takes all of the Property, or a portion sufficient, in Tenant's sole determination, to render the Premises unsuitable for Tenant, this Agreement will terminate as of the date the title vests in the condemning authority. The parties will each be entitled to pursue their own separate awards in the condemnation proceeds, which for Tenant will include, where applicable, the value of its Communication Facility, moving expenses, prepaid Rent, and business dislocation expenses. Tenant will be entitled to reimbursement for any prepaid Rent on a prorata basis.
- CASUALTY. Landlord will provide notice to Tenant of any casualty or other harm affecting the Property within forty-eight (48) hours of the casualty or other harm. If any part of the Communication Facility or Property is damaged by casualty or other harm as to render the Premises unsuitable, in Tenant's sole determination, then Tenant may terminate this Agreement by providing written notice to Landlord, which termination will be effective as of the date of such easualty or other harm. Upon such termination, Tenant will be entitled to collect all insurance proceeds payable to Tenant on account thereof and to be reimbursed for any prepaid Rent on a prorata basis. Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property, but only until such time as Tenant is able to activate a replacement transmission facility at another location; notwithstanding the termination of the Agreement, such temporary facilities will be governed by all of the terms and conditions of this Agreement, including Rent. If Landlord or Tenant undertakes to rebuild or restore the Premises and/or the Communication Facility, as applicable, Landlord agrees to permit Tenant to place temporary transmission and reception facilities on the Property at no additional Rent until the reconstruction of the Premises and/or the Communication Facility is completed. If Landlord determines not to rebuild or restore the Property. Landlord will notify Tenant of such determination within thirty (30) days after the casualty or other harm. If Landlord does not so notify Tenant, and Tenant decides not to terminate under this Section, then Landlord will promptly rebuild or restore any portion of the Property interfering with or required for Tenant's Permitted Use of the Premises to substantially the same condition as existed before the casualty or other harm. Landlord agrees that the Rent shall be abated until the Property and/or the Premises are rebuilt or restored, unless Tenant places temporary transmission and reception facilities on the Property.
- 20. WAIVER OF LANDLORD'S LIENS. Landlord waives any and all lien rights it may have, statutory or otherwise, concerning the Communication Facility or any portion thereof. The Communication Facility shall be deemed personal property for purposes of this Agreement, regardless of whether any portion is deemed real or personal property under applicable law; Landlord consents to Tenant's right to remove all or any portion of the Communication Facility from time to time in Tenant's sole discretion and without Landlord's consent.

TAXES.

(a) Landlord shall be responsible for timely payment of all taxes and assessments levied upon the lands, improvements and other property of Landlord, including any such taxes that may be calculated by the taxing authority using any method, including the income method. Tenant shall be responsible for any taxes and assessments attributable to and levied upon Tenant's leasehold improvements on the Premises if and as set forth in this Section 21. Nothing herein shall require Tenant to pay any inheritance, franchise, income, payroll, excise, privilege, rent, capital stock, stamp, documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Landlord.

- (b) In the event Landlord receives a notice of assessment with respect to which taxes or assessments are imposed on Tenant's leasehold improvements on the Premises. Landlord shall provide Tenant with copies of each such notice immediately upon receipt, but in no event later than thirty (30) days after the date of such notice of assessment. If Landlord does not provide such notice or notices to Tenant within such time period, Landlord shall be responsible for payment of the tax or assessment set forth in the notice, and Landlord shall not have the right to reimbursement of such amount from Tenant. If Landlord provides a notice of assessment to Tenant within such time period and requests reimbursement from Tenant as set forth below, then Tenant shall reimburse Landlord for the tax or assessments identified on the notice of assessment on Tenant's leasehold improvements, which has been paid by Landlord. If Landlord seeks reimbursement from Tenant. Landlord shall, no later than thirty (30) days after Landlord's payment of the taxes or assessments for the assessed tax year, provide Tenant with written notice including evidence that Landlord has timely paid same, and Landlord shall provide to Tenant any other documentation reasonably requested by Tenant to allow Tenant to evaluate the payment and to reimburse Landlord.
- (c) For any tax amount for which Tenant is responsible under this Agreement, Tenant shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as Tenant may deem appropriate. This right shall include the ability to institute any legal, regulatory or informal action in the name of Landlord, Tenant, or both, with respect to the valuation of the Premises. Landlord shall cooperate with respect to the commencement and prosecution of any such proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Tenant and any refunds or rebates secured as a result of Tenant's action shall belong to Tenant, to the extent the amounts were originally paid by Tenant. In the event Tenant notifies Landlord by the due date for assessment of Tenant's intent to contest the assessment, Landlord shall not pay the assessment pending conclusion of the contest, unless required by applicable law.
- (d) Landlord shall not split or cause the tax parcel on which the Premises are located to be split, bifurcated, separated or divided without the prior written consent of Tenant.
- (e) Tenant shall have the right but not the obligation to pay any taxes due by Landlord hereunder if Landlord fails to timely do so, in addition to any other rights or remedies of Tenant. In the event that Tenant exercises its rights under this Section 21(e) due to such Landlord default, Tenant shall have the right to deduct such tax amounts paid from any monies due to Landlord from Tenant as provided in Section 15(b), provided that Tenant may exercise such right without having provided to Landlord notice and the opportunity to cure per Section 15(b).
- (f) Any tax-related notices shall be sent to Tenant in the manner set forth in Section 17 and, in addition, of a copy of any such notices shall be sent to the following address. Promptly after the Effective Date of this Agreement, Landlord shall provide the following address to the taxing authority for the authority's use in the event the authority needs to communicate with Tenant. In the event that Tenant's tax addresses changes by notice to Landlord, Landlord shall be required to provide Tenant's new tax address to the taxing authority or authorities.

New Cingular Wireless PCS, LLC
Attn: Network Real Estate Administration -- Taxes
Re: Cell Site #KYL03168; Cell Site Name: Symsonia (KY)
Fixed Asset No: 13800773
575 Morosgo Drive NE
Atlanta, GA 30324

(g) Notwithstanding anything to the contrary contained in this Section 21. Tenant shall have no obligation to reimburse any tax or assessment for which the Landlord is reimbursed or rebated by a third party.

22. SALE OF PROPERTY

- (a) Landlord shall not be prohibited from the selling, leasing or use of any of the Property or the Surrounding Property except as provided below.
- (b) If Landlord, at any time during the Term of this Agreement, decides to rezone or sell, subdivide or otherwise transfer all or any part of the Premises, or all or any part of the Property or Surrounding Property, to a purchaser other than Tenant, Landlord shall promptly notify Tenant in writing, and such rezoning, sale, subdivision or transfer shall be subject to this Agreement and Tenant's rights hereunder. In the event of a change in ownership, transfer or sale of the Property, within ten (10) days of such transfer, Landlord or its successor shall send the documents listed below in this subsection (b) to Tenant. Until Tenant receives all such documents. Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement.
 - i. Old deed to Property
 - ii. New deed to Property
 - iii. Bill of Sale or Transfer
 - iv. Copy of current Tax Bill
 - v. New IRS Form W-9
 - vi. Completed and Signed AT&T Payment Direction Form
 - vii. Full contact information for new Landlord including phone number(s)
- (c) Landlord agrees not to sell, lease or use any areas of the Property or Surrounding Property for the installation, operation or maintenance of other wireless communications facilities if such installation, operation or maintenance would interfere with Tenant's Permitted Use or communications equipment as determined by radio propagation tests performed by Tenant in its sole discretion. Landlord or Landlord's prospective purchaser shall reimburse Tenant for any costs and expenses of such testing. If the radio frequency propagation tests demonstrate levels of interference unacceptable to Tenant, Landlord shall be prohibited from selling, leasing or using any areas of the Property or the Surrounding Property for purposes of any installation, operation or maintenance of any other wireless communications facility or equipment.
- (d) The provisions of this Section shall in no way limit or impair the obligations of Landlord under this Agreement, including interference and access obligations.
- 23. RENTAL STREAM OFFER. If at any time after the date of this Agreement, Landlord receives a bona fide written offer from a third party seeking an assignment or transfer of Rent payments associated with this Agreement ("Rental Stream Offer"). Landlord shall immediately furnish Tenant with a copy of the Rental Stream Offer. Tenant shall have the right within twenty (20) days after it receives such copy to match the Rental Stream Offer and agree in writing to match the terms of the Rental Stream Offer. Such writing shall be in the form of a contract substantially similar to the Rental Stream Offer. If Tenant chooses not to exercise this right or fails to provide written notice to Landlord within the twenty (20) day period, Landlord may assign the right to receive Rent payments pursuant to the Rental Stream Offer, subject to the terms of this Agreement. If Landlord attempts to assign or transfer Rent payments without complying with this Section, the assignment or transfer shall be void. Tenant shall not be responsible for any failure to make payments under this Agreement and reserves the right to hold payments due under this Agreement until Landlord complies with this Section.

24. MISCELLANEOUS.

- (a) Amendment/Waiver. This Agreement cannot be amended, modified or revised unless done in writing and signed by Landlord and Tenant. No provision may be waived except in a writing signed by both parties. The failure by a party to enforce any provision of this Agreement or to require performance by the other party will not be construed to be a waiver, or in any way affect the right of either party to enforce such provision thereafter.
- (b) Memorandum/Short Form Lease. Contemporaneously with the execution of this Agreement, the parties will execute a recordable Memorandum or Short Form of Lease substantially in the form attached as

- Exhibit 24b. Either party may record this Memorandum or Short Form of Lease at any time during the Term, in its absolute discretion. Thereafter during the Term of this Agreement, either party will, at any time upon fifteen (15) business days' prior written notice from the other, execute, acknowledge and deliver to the other a recordable Memorandum or Short Form of Lease.
- (c) Limitation of Liability. Except for the indemnity obligations set forth in this Agreement, and otherwise notwithstanding anything to the contrary in this Agreement. Tenant and Landlord each waives any claims that each may have against the other with respect to consequential, incidental or special damages, however caused, based on any theory of liability.
- (d) Compliance with Law. Tenant agrees to comply with all federal, state and local laws, orders, rules and regulations ("Laws") applicable to Tenant's use of the Communication Facility on the Property. Landlord agrees to comply with all Laws relating to Landlord's ownership and use of the Property and any improvements on the Property.
- (e) Bind and Benefit. The terms and conditions contained in this Agreement will run with the Property and bind and inure to the benefit of the parties, their respective heirs, executors, administrators, successors and assigns.
- (f) Entire Agreement. This Agreement and the exhibits attached hereto, all being a part hereof, constitute the entire agreement of the parties hereto and will supersede all prior offers, negotiations and agreements with respect to the subject matter of this Agreement. Exhibits are numbered to correspond to the Section wherein they are first referenced. Except as otherwise stated in this Agreement, each party shall bear its own fees and expenses (including the fees and expenses of its agents, brokers, representatives, attorneys, and accountants) incurred in connection with the negotiation, drafting, execution and performance of this Agreement and the transactions it contemplates.
- (g) Governing Law. This Agreement will be governed by the laws of the state in which the Premises are located, without regard to conflicts of law.
- (h) Interpretation. Unless otherwise specified, the following rules of construction and interpretation apply: (i) captions are for convenience and reference only and in no way define or limit the construction of the terms and conditions hereof; (ii) use of the term "including" will be interpreted to mean "including but not limited to"; (iii) whenever a party's consent is required under this Agreement, except as otherwise stated in this Agreement or as same may be duplicative, such consent will not be unreasonably withheld, conditioned or delayed; (iv) exhibits are an integral part of this Agreement and are incorporated by reference into this Agreement; (v) use of the terms "termination" or "expiration" are interchangeable; (vi) reference to a default will take into consideration any applicable notice, grace and cure periods, (vii) to the extent there is any issue with respect to any alleged, perceived or actual ambiguity in this Agreement, the ambiguity shall not be resolved on the basis of who drafted the Agreement; (viii) the singular use of words includes the plural where appropriate and (ix) if any provision of this Agreement is held invalid, illegal or unenforceable, the remaining provisions of this Agreement shall remain in full force if the overall purpose of the Agreement is not rendered impossible and the original purpose, intent or consideration is not materially impaired.
- (i) Affiliates. All references to "Tenant" shall be deemed to include any Affiliate of New Cingular Wireless PCS, LLC using the Premises for any Permitted Use or otherwise exercising the rights of Tenant pursuant to this Agreement. "Affiliate" means with respect to a party to this Agreement, any person or entity that (directly or indirectly) controls, is controlled by, or under common control with, that party. "Control" of a person or entity means the power (directly or indirectly) to direct the management or policies of that person or entity, whether through the ownership of voting securities, by contract, by agency or otherwise.
- (j) Survival. Any provisions of this Agreement relating to indemnification shall survive the termination or expiration hereof. In addition, any terms and conditions contained in this Agreement that by their sense and context are intended to survive the termination or expiration of this Agreement shall so survive.
- (k) W-9. As a condition precedent to payment, Landlord agrees to provide Tenant with a completed IRS Form W-9, or its equivalent, upon execution of this Agreement and at such other times as may be reasonably requested by Tenant, including, any change in Landlord's name or address.
- Execution/No Option. The submission of this Agreement to any party for examination or consideration does not constitute an offer, reservation of or option for the Premises based on the terms set forth

herein. This Agreement will become effective as a binding Agreement only upon the handwritten legal execution, acknowledgment and delivery hereof by Landlord and Tenant. This Agreement may be executed in two (2) or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties. All parties need not sign the same counterpart.

- (m) Attorneys' Fees. In the event that any dispute between the parties related to this Agreement should result in litigation, the prevailing party in such litigation shall be entitled to recover from the other party all reasonable fees and expenses of enforcing any right of the prevailing party, including without limitation, reasonable attorneys' fees and expenses. Prevailing party means the party determined by the court to have most nearly prevailed even if such party did not prevail in all matters. This provision will not be construed to entitle any party other than Landlord, Tenant and their respective Affiliates to recover their fees and expenses.
- (n) WAIVER OF JURY TRIAL. EACH PARTY. TO THE EXTENT PERMITTED BY LAW, KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVES ITS RIGHT TO A TRIAL BY JURY IN ANY ACTION OR PROCEEDING UNDER ANY THEORY OF LIABILITY ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS AGREEMENT OR THE TRANSACTIONS IT CONTEMPLATES.

[SIGNATURES APPEAR ON NEXT PAGE]

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

"LANDLORD"

Michael	В.	Reid	and	Kathryn	Μ.	Reid.	as	husband	and
wife									

By: / Juckack B. Reid

Its: Owner
Date: 3/24/17

LANDLORD ACKNOWLEDGMENT

STATE OF KY	
COUNTY OF Marshall) SSS	
Michael B. Reid March.	2017 before me, personally appeared, who acknowledged under oath, tha
he/she/they is/are the person/officer named in the within inst his/her/their stated capacity as the voluntary act and deed of the	trument, and that he/she/they executed the same in

Notary Public: Malley Warnehe My Commission Expires: 11-2448 #523063

By: Athun M Rul Print Name: Kathryn M. Reid Its: Owner Date: 3/34/17

LANDLORD ACKNOWLEDGMENT

STATE OF KY COUNTY OF Marcha (())	
On the DU day of March Kathyn Poid he/she/they is/are the person/officer named in the within his/her/their stated capacity as the voluntary act and dec	, 2017 before me, personally appeared , who acknowledged under oath, that in instrument, and that he/she/they executed the same in d of the Landlord for the purposes therein contained.
	Notary Public: Shabony Commission Expires: 10-34-18 #523063

15

"TENANT"

	New Cingular Wireless PCS, LLC, a Delaware limited liability company By: AT&T Mobility Corporation Its: Manager By: Name: Bryan/Coleman Title: Area/Manager Network Engineering Gulf States/TNKY Site Acquisition Date: G S Zel 7
Coleman and acknowledged under oath that States/TNKY Site Acquisition of AT&T Mobi) ss:
MCLAUGALAN	Notary Public: Act the Management of the Managem

EXHIBIT 1

DESCRIPTION OF PREMISES

	Pageof
to the Option and Lease Agreement dated Kathryn M. Reid, as husband and wife, as Land liability company, as Tenant.	lord, and New Cingular Wireless PCS, LLC, a Delaware limited

. . . -- ----

TRACT I:

The Property is legally described as follows:

Being 57 acres and 15 poles of land and being a part of the S.B. Qr. of Sec. 11 T 5 R 2 E and also part of the land allotted to J.L. Wallace in the division of the Eli Wallace, Sr. lands, beginning at the southwest corner of the land allotted to Calvin Wallace, now A.M. Wallace land, at a post oak with one post oak pointer in the South line of the quarter; thence south 83 degrees 29 minutes W 42 poles and 18 1/2 links to a stake; white oak pointer and known as the Freazor corner; thence north 14 1/2 degrees W 40 poles to a stake at the Peter Lyles corner; thence north 11 degraes W 123 poles with the Peter Lyles line to a point near two post oaks, one of which is marked for a corner and the other for a fore and aft tree; thence north 82 degrees 24 minutes E 65 3/4 poles to the southwest corner of the Calvin Wallace land; thence South 4 degrees 52 minutes E 160 poles and 22 links to the beginning, containing 57 acres and 15 poles of land.

EXCEPT:

25 acres of land, more or less, and being all of the following described land that lies south of the Mayfield and Benton Road which was conveyed by these grantors to Charles L. Cromwell, et ux. by deed dated March 19, 1951, recorded March 19, 1951, in Deed Book 149, page 324, Graves County Court Clerk's Office.

ALSO, EXCEPT:

The lot conveyed by deed dated May 4, 1973, and recorded in Deed Book 23B, page 368, in the aforesaid clark's office, and more

southwest corner of the above described tract of property; thence east along the north right of way line of Highway #348 (Symsonia and Benton Highway) a distance of 192 feet to an iron stake; thence north a distance of 340 feet to an iron stake; thence west a distance of 262 feet to an iron stake located on the east line of the Herman Hamm Lane; thence south along the east right of way line of the Herman Hamm Lane, 260 feet to the point of beginning.

Being the same property in all respects that was conveyed to Edna Earl Reid and husband, Barton Reid, from Lela Shemwell, widow, by deed dated March 1, 1976, and recorded in Deed Book 255, page 35, in the Graves County Court Clerk's Office.

TRACT II:

It being two acres of land in the town of Symsonia and bounded as follows, to wit:

Beginning at the South corner of said land (same being the S.W. Corner of H. C. Redwine home place); thence west with the Wadesboro & Paducah Road 5 rods to a stake within one rod of Josephine Redwine East line; thence West, parallel with Josephine Redwins line to the Broadfoot land; thence East with the South Broadfoot line to H. C. Redwine West line, said line parallel with Josephine Redwine East line to the beginning corner; said land conveyed to T. A. Adams by H. C. Redwine by deed of September 18, 1905, by record of December 14, 1906, Deed Book 34, page 600-1.

Also the remainder of my land laying between the above described land and Josephine Redwine East line to wit beginning with the S. W. corner of above described land; thence west one rod with Wadesboro & Paducah Road to Josephine Redwine East line; thence north 21 rods; thence west 6 rods; thence north to the Smith Broadfoot line; thence East with the Broadfoot line to the above described land; thence south with the above described line to the beginning corner except a sufficient room for a wagon road at the corner of Josephine Redwine N.W. corner of her front lot.

Being the same property conveyed to Grantors from Lela Shemwell, a widow, by deed dated January 7, 1961, of record in Deed Book 185, page 195, of the Graves County Court Clerk's Office.



EXHIBIT 11

ENVIRONMENTAL DISCLOSURE

Landlord represents and warrants that the Property, as of the date of this Agreement, is free of hazardous substances except as follows:

1. NONE.

EXHIBIT 12 STANDARD ACCESS LETTER [FOLLOWS ON NEXT PAGE]

February 27, 2017

Building Staff / Security Staff Michael B. Reid and Kathryn M. Reid 1115 Sledd Creek Road Gilbertsville, KY 42044

Re: Authorized Access granted to AT&T

Dear Building and Security Staff,

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

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

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

Landlord Signature

Landlord Signature

EXHIBIT J NOTIFICATION LISTING

Symsonia - Notice List

Reid Michael B 1115 Sledd Creek Rd Gilbertsville, KY 42044

Vick Linda 870 State Rt 348 E Symsonia, KY 42082

Heath Steve 940 State Rt 348 E Symsonia, KY 42082

Flores Jose M & Pamela C 181 Symsonia Rd Symsonia, KY 42082

Roach Mary & Nancy Roche 189 St Rt 348 E Symsonia, KY 42082

Thompson Richard D & Heather Jean 3608 State Rt 534 Symsonia, KY 42082

Thurston Brent & Shanna 22 Symsonia Rd Symsonia, KY 42082

Watkins Billy L & Peggy Ann 460 State Rt 348 E Symsonia, KY 42082

Stahr Kevin & Lea Ann 6945 State Rt 121 S Fancy Farm, KY 42039

Bell Special Need Trust 87 Ham Road Symsonia, KY 42082

Crowell Ricky Charles 27460 Roan Warren, MI 48093 Mathis Ray Keith & Leshia 780 Doyle Rd Hickory, KY 42051

McGregor Brad & Vickie 692 State Rt 348 E Symsonia, KY 42082

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: Symsonia

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 850 State Route 348 East, Symsonia, Kentucky (36°55'07.10" North latitude, 88°30'26.78" West longitude). The proposed facility will include a 305-foot tall tower, with an approximately 15-foot tall lightning arrestor attached at the top, for a total height of 320-feet. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the Butler 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 2017-00368 in any correspondence sent in connection with this matter.

In addition to expanding and improving voice and data service for AT&T mobile customers, this site will also support deployment of wireless local loop ("WLL") technology to provide broadband internet service to homes and businesses in the area. WLL will support internet access at the high speeds required to use and enjoy the most current business, education and entertainment technologies.

We have attached a map showing the site location for the proposed tower. AT&T Mobility's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us toll free at (800) 516-4293 if you have any comments or questions about this proposal.

Sincerely, David A. Pike Attorney for Applicants

enclosure

Driving Directions to Proposed Tower Site:

- Beginning at the offices of the Graves County Judge Executive, 101 East South Street, Mayfield, KY 42066 start out going east on E South St toward KY-80/KY-121 Bus/S 6th St.
- 2. Take the 1st left onto S 6th St/KY-80/KY-121 Bus.
- 3. Take the 1st right onto E Broadway/KY-58. Continue to follow KY-58.
- 4. Turn left onto State Route 131/KY-131. Continue to follow KY-131.
- 5. Turn right onto State Route 348 E/KY-348.
- 6. Arrive at 850 State Route 348 E, Symsonia, Kentucky on the left.
- 7. The site coordinates are 36°55'07.10" North latitude, 88°30'26.78" West longitude



Prepared by: Robert W. Grant Pike Legal Group PLLC 1578 Highway 44 East, Suite 6 PO Box 369 Shepherdsville, KY 40165-0369

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

EXHIBIT L COPY OF COUNTY JUDGE/EXECUTIVE NOTICE



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

Hon. Jesse Perry Graves County Judge Executive 101 East South Street Mayfield, KY 42066

RE: Notice of Proposal to Construct Wireless Communications Facility

Kentucky Public Service Commission Docket No. 2017-00368

Site Name: Symsonia

Dear Judge Perry:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 850 State Route 348 East, Symsonia, Kentucky (36°55'07.10" North latitude, 88°30'26.78" West longitude). The proposed facility will include a 305-foot tall tower, with an approximately 15-foot tall lightning arrestor attached at the top, for a total height of 320-feet. 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 2017-00368 in any correspondence sent in connection with this matter.

In addition to expanding and improving voice and data service for AT&T mobile customers, this site will also support deployment of wireless local loop ("WLL") technology to provide broadband internet service to homes and businesses in the area. WLL will support internet access at the high speeds required to use and enjoy the most current business, education and entertainment technologies.

We have attached a map showing the site location for the proposed tower. AT&T Mobility's radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us with any comments or questions you may have.

Sincerely, David A. Pike Attorney for Applicants enclosures

Driving Directions to Proposed Tower Site:

- Beginning at the offices of the Graves County Judge Executive, 101 East South Street, Mayfield, KY 42066 start out going east on E South St toward KY-80/KY-121 Bus/S 6th St.
- 2. Take the 1st left onto S 6th St/KY-80/KY-121 Bus.
- 3. Take the 1st right onto E Broadway/KY-58. Continue to follow KY-58.
- 4. Turn left onto State Route 131/KY-131. Continue to follow KY-131.
- 5. Turn right onto State Route 348 E/KY-348.
- 6. Arrive at 850 State Route 348 E, Symsonia, Kentucky on the left.
- 7. The site coordinates are 36°55'07.10" North latitude, 88°30'26.78" West longitude



Prepared by: Robert W. Grant Pike Legal Group PLLC 1578 Highway 44 East, Suite 6 PO Box 369 Shepherdsville, KY 40165-0369

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

EXHIBIT M COPY OF POSTED NOTICES

SITE NAME: SYMSONIA NOTICE SIGNS

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

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2017-00368 in your correspondence.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility proposes to construct a telecommunications **tower** near this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2017-00368 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

Mayfield Messenger Newspaper Attn: Public Notice Ad Placement 201 N 8th St Mayfield, KY 42066

RE:

Legal Notice Advertisement

Site Name: Symsonia

Dear Mayfield Messenger Newspaper:

Please publish the following legal notice advertisement in the next edition of *Mayfield Messenger Newspaper*

NOTICE

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 850 State Route 348 East, Symsonia, Kentucky (36°55'07.10" North latitude, 88°30'26.78" 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 2017-00368 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, Robert W. Grant Pike Legal Group, PLLC

EXHIBIT N COPY OF RADIO FREQUENCY DESIGN SEARCH AREA



Lat: 36.914181 Lon: -88.512144 Radius: .5 miles

Symsonia Search Area