COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF	)	
SKYWAY TOWERS LLC AND	)	
CELLCO PARTNERSHIP d/b/a VERIZON WIRELESS	)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC	)	CASE NO.: 2023-00074
CONVENIENCE AND NECESSITY TO CONSTRUCT	)	
A WIRELESS COMMUNICATIONS FACILITY	)	
IN THE COMMONWEALTH OF KENTUCKY	)	
IN THE COUNTY OF CARROLL	)	

SITE NAME: LOCUST

* * * * * * *

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

Skyway Towers, LLC, a Delaware limited liability company, and Cellco Partnership, a Delaware General Partnership d/b/a Verizon Wireless ("Applicants"), by counsel, pursuant to (i) KRS §§ 278.020, 278.040, 278.650, 278.665, and other statutory authority, and the rules and regulations applicable thereto, and (ii) the Telecommunications Act of 1996, respectfully 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 Verizon Wireless with wireless communications services.[1]

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

1 Applicants note that a CPCN was previously approved for this proposed WCF in case number 2020-00139. However, said CPCN expired as of August 18, 2021 prior to construction, and the present application is filed to request renewed authorization for construction of the proposed WCF.

1. The complete name and address of the Applicants are: Skyway Towers, LLC, a Delaware limited liability company, having an address of 3637 Madaca Lane, Tampa, FL 33618 and Cellco Partnership, a Delaware General Partnership, d/b/a Verizon Wireless, having an address of 2421 Holloway Road, Louisville, KY 40299.

2. Applicants propose construction of an antenna tower for communications services, which is to be located in an area outside the jurisdiction of a planning commission, and Applicants submit this application to the PSC for a certificate of public convenience and necessity pursuant to KRS §§ 278.020(1), 278.040, 278.650, 278.665, and other statutory authority.

3. Verizon Wireless is a Delaware general partnership, and a copy of an Amended Certificate of Assumed Name for Applicant entity on file with the Kentucky Secretary of State is attached as part of **Exhibit A**.

4. Skyway Towers, LLC is a limited liability company organized in the state of Delaware on June 10, 2014. The Certificate of Authorization issued by the Kentucky Secretary of State for Skyway Towers, LLC and Skyway Towers, LLC's Certificate of Formation are attached as part of **Exhibit A** and are hereby incorporated by reference.

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

6. Verizon Wireless operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of Verizon Wireless' FCC licenses to provide wireless services are attached to this Application or described as part of **Exhibit A**, and the facility will be constructed and operated in

accordance with applicable FCC regulations.

7. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve Verizon Wireless' services to an area currently not served or not adequately served by Verizon Wireless 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 Verizon Wireless 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 Verizon Wireless network design that must be in place to provide adequate coverage to the service area.

8. To address the above-described service needs, Applicants propose to construct a WCF in a lease area at 1002 Fairview Ridge, Milton, KY 40045 (38° 42' 20.66" North latitude, 85° 16' 51.00" 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 RWF Legacy Ranch, Inc. pursuant to a Deed recorded at Deed Book 204, Page 467 in the office of the County Clerk. The proposed WCF will consist of a 245-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 255-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Applicant's radio electronics equipment and appurtenant equipment. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the

manner in which the proposed WCF will be constructed is attached as **Exhibit B** and **Exhibit C**.

9. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete is attached as **Exhibit D**.

10. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of Verizon Wireless has also been included as part of **Exhibit B**.

11. Foundation design plans signed and sealed by a professional engineer registered in Kentucky and a description of the standards according to which the tower was designed are included as part of **Exhibit C**.

12. Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and 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, Applicants attempt to co-locate on existing structures such as communications towers or other structures capable of supporting Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

13. A copy of the Determination of No Hazard to Air Navigation issued by the Federal Aviation Administration ("FAA") is attached as **Exhibit E**.

14. A copy of the Kentucky Airport Zoning Commission ("KAZC") application to

construct the tower is attached as **Exhibit F**.

15. A geotechnical engineering firm has performed soil boring(s) and subsequent geotechnical engineering studies at the WCF site. A copy of the geotechnical engineering report, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, is attached as **Exhibit G**. The name and address of the geotechnical engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included as part of this exhibit.

16. Clear directions to the proposed WCF site from the County seat are attached as **Exhibit H**. The name and telephone number of the preparer of **Exhibit H** are included as part of this exhibit.

17. Applicants, pursuant to a written agreement, have acquired the right to use the WCF site and associated property rights. A copy of the agreement or an abbreviated agreement recorded with the County Clerk is attached as **Exhibit I**.

18. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced. The tower and foundation drawings for the proposed tower submitted as part of **Exhibit C** bear the signature and stamp of a professional engineer registered in the Commonwealth of Kentucky. All tower designs meet or exceed the minimum requirements of applicable laws and regulations.

19. The Construction Manager for the proposed facility is Jay Cantu and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibits B & C**.

20. As noted on the Survey attached as part of **Exhibit B**, the surveyor has determined that the site is not within any flood hazard area.

21. **Exhibit B** includes a map drawn to an appropriate scale that shows the location of the proposed tower and identifies every owner of real estate within 500 feet of the proposed tower (according to the records maintained by the County Property Valuation Administrator). Every structure and every easement within 500 feet of the proposed tower or within 200 feet of the access road including intersection with the public street system is illustrated in **Exhibit B**.

22. Applicants have notified every person who, according to the records of the County Property Valuation Administrator, owns property which is within 500 feet of the proposed tower or contiguous to the site property, by certified mail, return receipt requested, of the proposed construction. Each notified property owner has been provided with a map of the location of the proposed construction, the PSC docket number for this application, the address of the PSC, and has been informed of his or her right to request intervention. A list of the notified property owners and a copy of the form of the notice sent by certified mail to each landowner are attached as **Exhibit J** and **Exhibit K**, respectively. Copies of the certified green card receipts for each of the landowners who were provided notice are also included as part of **Exhibit J**.

23. Applicants have notified the applicable County Judge/Executive by certified mail, return receipt requested, of the proposed construction. This notice included the PSC docket number under which the application will be processed and informed the County Judge/Executive of his/her right to request intervention. A copy of this notice is attached as

Exhibit L.

24. Notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2) that measure at least 2 feet in height and 4 feet in width and that contain all required language in letters of required height, have been posted, one in a visible location on the proposed site and one on the nearest public road. Such signs shall remain posted for at least two weeks after filing of the Application, and a copy of the posted text is attached as **Exhibit M**. A legal notice advertisement regarding the location of the proposed facility has been published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the newspaper legal notice advertisement is attached as part of **Exhibit M**.

25. The general area where the proposed facility is to be located is rural and heavily wooded.

26. The process that was used by Verizon Wireless 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 Applicants when searching for sites for its antennas that would provide the coverage deemed necessary by Verizon Wireless

Radio Frequency Engineers. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit N**.

27. The tower must be located at the proposed location and proposed height to provide necessary service to wireless communications users in the subject area.

28. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

29. All responses and requests associated with this Application may be directed to:

David A. Pike
Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpike@pikelegal.com

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

Respectfully submitted,

David A. Pike
Pike Legal Group, PLLC
1578 Highway 44 East, Suite 6
P. O. Box 369
Shepherdsville, KY 40165-0369
Telephone: (502) 955-4400
Telefax: (502) 543-4410
Email: dpike@pikelegal.com
Attorney for Applicants

LIST OF EXHIBITS

A - Certificate of Authority & FCC License Documentation

B - Site Development Plan:

- 500' Vicinity Map
- Legal Descriptions
- Flood Plain Certification
- Site Plan
- Vertical Tower Profile

C - Tower and Foundation Design

D - Competing Utilities, Corporations, or Persons List

E - FAA

F - Kentucky Airport Zoning Commission

G - Geotechnical Report

H - Directions to WCF Site

I - Copy of Real Estate Agreement

J - Notification Listing & Certified Green Receipts

K - Copy of Property Owner Notification

L - Copy of County Judge/Executive Notice

M - Copy of Posted Notices and Newspaper Notice Advertisement

N - Copy of Radio Frequency Design Search Area

EXHIBIT A
CERTIFICATE OF AUTHORITY & FCC LICENSE DOCUMENTATION

COMMONWEALTH OF KENTUCKY
ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

0889888.06 amcray ADD
Alison Lundergan Grimes
Kentucky Secretary of State
Received and Filed:
6/16/2014 1:42 PM
Fee Receipt: $90.00

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

Certificate of Authority (Foreign Business Entity)

FBE

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

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

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

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

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

5. The date of organization is 11/14/2014 and the period of duration is _____.
(If left blank, the period of duration is considered perpetual.)

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

Street Address	City	State	Zip Code
20525 Amberfield Drive, Suite 102	Land O Lakes	FL	34638

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

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

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

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

Name	Street or P.O. Box	City	State	Zip Code
Daniel Behuniak	20525 Amberfield Drive, Suite 102	Land O Lakes	FL	34638
Scott Behuniak	20525 Amberfield Drive, Suite 102	Land O Lakes	FL	34638
Eric Bondurant	20525 Amberfield Drive, Suite 102	Land O Lakes	FL	34638

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

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

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

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

Signature of Authorized Representative	Printed Name & Title	Date
	Daniel Behuniak, CBO	6/10/2014

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

By: _____
Signature of Registered Agent — Printed Name — Title — Date

(01/12)

Angel Nunez
Assistant Secretary

Delaware

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY "SKYWAY TOWERS, LLC" IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE SO FAR AS THE RECORDS OF THIS OFFICE SHOW, AS OF THE TENTH DAY OF JUNE, A.D. 2014.

Jeffrey W. Bullock, Secretary of State

5242195 8300

AUTHENTICATION: 1440473

140816530

DATE: 06-10-14

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

LARP

0889888
Michael G. Adams
KY Secretary of State
Received and Filed
5/17/2022 2:24:06 PM
Fee receipt: $15.00

Commonwealth of Kentucky
Michael G. Adams, Secretary of St

Michael G. Adams
Secretary of State
P. O. Box 1150
Frankfort, KY 40602-1150
(502) 564-3490
http://www.sos.ky.gov

Annual Report
Online Filing

ARP

Company: SKYWAY TOWERS, LLC
Company ID: 0889888
State of origin: Delaware
Formation date: 6/16/2014 12:00:00 AM
Date filed: 5/17/2022 2:24:06 PM
Fee: $15.00

Principal Office

3637 MADACA LANE
TAMPA, FL 33618

Registered Agent Name/Address

INCORP SERVICES, INC.
828 LANE ALLEN ROAD STE 219
LEXINGTON, KY 40504

Members/Managers

Member	DANIEL P. BEHUNIAK	3637 Madaca Lane Tampa, FL 33618
Member	ERIC P. BONDURANT	3637 Madaca Lane Tampa, FL 33618
Member	SCOTT M. BEHUNIAK	3637 Madaca Lane Tampa, FL 33618

Signatures

Signature Scott M. Behuniak
Title Member

0641227.07	mstratton AMD
Alison Lundergan Grimes **Kentucky Secretary of State** Received and Filed: 6/12/2018 2:15 PM Fee Receipt: $20.00	

COMMONWEALTH OF KENTUCKY
ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

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

Amended Certificate of Assumed Name AAN
(Domestic or Foreign Business Entity)

Pursuant to the provisions of KRS 365, the undersigned applies to amend the certificate of assumed name and, for that purpose, submits the following statement:

1. The assumed name is Verizon Wireless.
(The name must be identical to the name on record with the Secretary of State.)

2. The certificate of assumed name was filed with the Secretary of State on: 6/21/2006.

3 The current principal office address (if any) is:

One Verizon Way	Basking Ridge	NJ	07960
Street Address or Post Office Box Numbers	City	State	Zip

4. The principal office address is hereby changed to:

Street Address or Post Office Box Numbers	City	State	Zip

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

6. The changes in the identity of the partners are as follows: See Addendum for current partners.

I declare under penalty of perjury under the laws of Kentucky that the forgoing is true and correct.

GTE Wireless LLC

J. Daniel Mason	J. Daniel Mason	Assistant Secretary	6/11/2018
Signature of Applicant	Printed Name	Title	Date

(01/12)

KYGET - 01.16.2012 Wolters Kluwer Online

Addendum

The full name of the Partnership is Cellco Partnership, a Delaware general partnership composed of the following partners:

General Partners of Cellco Partnership	***Address***
Bell Atlantic Mobile Systems LLC	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless LLC	One Verizon Way Basking Ridge, NJ 07920
Verizon Americas Inc.	One Verizon Way Basking Ridge, NJ 07920
GTE Wireless of the Midwest Incorporated	One Verizon Way Basking Ridge, NJ 07920

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: LICENSING MANAGER
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
KNKN837	0009611060
Radio Service CL - Cellular	
Market Numer CMA449	**Channel Block** A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003290673

Market Name
Kentucky 7 - Trimble

Grant Date	Effective Date	Expiration Date	Five Yr Build-Out Date	Print Date
08-31-2021	08-31-2021	10-01-2031		08-31-2021

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
1	38-10-37.0 N	085-06-25.0 W	360.0	90.8	1036601

Address: Top of Shelbyville Mountain
City: Shelbyville **County:** SHELBY **State:** KY **Construction Deadline:**

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	188.400	190.600	203.000	190.500	202.900	218.800	217.100	203.300
Transmitting ERP (watts)	27.480	50.000	19.910	2.510	0.210	0.100	0.440	3.790

Antenna: 5
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	188.400	190.600	203.000	190.500	202.900	218.800	217.100	203.300
Transmitting ERP (watts)	0.100	0.100	1.440	2.380	0.480	2.380	1.580	0.100

Antenna: 6
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	188.400	190.600	203.000	190.500	202.900	218.800	217.100	203.300
Transmitting ERP (watts)	51.690	14.230	1.140	0.300	0.570	8.130	41.390	69.660

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837 **File Number:** 0009611060 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
2	38-12-25.9 N	084-51-45.2 W	211.2	56.9	1051445

Address: 400C Clifton Avenue
City: FRANKFORT **County:** FRANKLIN **State:** KY **Construction Deadline:**

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	62.300	35.800	23.200	8.600	71.400	29.500	60.100	36.900
Transmitting ERP (watts)	55.320	50.990	15.260	1.540	0.340	1.580	15.980	54.030

Antenna: 5
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	62.300	35.800	23.200	8.600	71.400	29.500	60.100	36.900
Transmitting ERP (watts)	3.530	29.600	58.750	55.210	43.890	7.580	0.410	0.240

Antenna: 6
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	62.300	35.800	23.200	8.600	71.400	29.500	60.100	36.900
Transmitting ERP (watts)	3.590	0.240	0.490	7.700	44.940	57.490	54.760	29.400

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
3	38-28-54.3 N	085-15-56.5 W	252.9	90.5	1036602

Address: 4920 Fallen Timber Drive
City: SULPHUR **County:** HENRY **State:** KY **Construction Deadline:**

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	85.200	102.800	77.800	84.300	95.500	105.400	97.100
Transmitting ERP (watts)	0.390	10.470	67.610	87.100	22.910	1.150	0.200	0.200

Antenna: 5
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	85.200	102.800	77.800	84.300	95.500	105.400	97.100
Transmitting ERP (watts)	0.370	0.200	0.200	1.260	23.990	87.100	66.070	10.000

Antenna: 6
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	126.900	85.200	102.800	77.800	84.300	95.500	105.400	97.100
Transmitting ERP (watts)	95.500	43.650	3.550	0.200	0.200	0.200	3.980	44.670

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837 **File Number:** 0009611060 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	38-38-10.0 N	085-05-53.5 W	245.3	90.2	1036425

Address: 312 Whites Run Road
City: CARROLLTON **County:** CARROLL **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.300	107.900	120.600	148.800	94.800	91.100	112.600	147.700
Transmitting ERP (watts)	0.200	11.220	72.440	91.200	25.700	0.370	0.200	0.200

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.300	107.900	120.600	148.800	94.800	91.100	112.600	147.700
Transmitting ERP (watts)	0.200	0.200	0.200	0.940	18.570	33.150	30.890	10.840

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	156.300	107.900	120.600	148.800	94.800	91.100	112.600	147.700
Transmitting ERP (watts)	33.110	26.080	3.390	0.200	0.200	0.200	4.070	24.940

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
5	38-43-25.0 N	084-51-06.0 W	246.9	90.8	1036424

Address: 120 Boone Trail (off Highway 455)
City: Sparta **County:** GALLATIN **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.200	119.000	114.900	96.300	80.600	140.600	110.100	133.300
Transmitting ERP (watts)	0.200	0.500	11.300	20.180	19.990	13.040	0.740	0.200

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.200	119.000	114.900	96.300	80.600	140.600	110.100	133.300
Transmitting ERP (watts)	6.850	0.200	0.200	0.200	1.830	17.930	20.220	19.450

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	127.200	119.000	114.900	96.300	80.600	140.600	110.100	133.300
Transmitting ERP (watts)	20.450	20.140	19.650	2.430	0.200	0.200	0.200	5.480

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837 **File Number:** 0009611060 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
6	38-43-30.0 N	084-38-29.0 W	275.2	90.8	1036179

Address: 3000 Dry Ridge Mount Zion Road
City: DRY RIDGE **County:** GRANT **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.100	115.000	114.500	92.600	110.000	136.400	142.300	143.700
Transmitting ERP (watts)	0.360	9.930	41.040	48.250	18.580	1.120	0.200	0.200

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.100	115.000	114.500	92.600	110.000	136.400	142.300	143.700
Transmitting ERP (watts)	0.350	0.200	0.200	1.230	19.460	48.290	40.110	9.480

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	112.100	115.000	114.500	92.600	110.000	136.400	142.300	143.700
Transmitting ERP (watts)	51.290	30.370	3.550	0.200	0.200	0.200	3.980	31.080

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	38-35-22.1 N	084-34-38.2 W	286.5	91.7	1036600

Address: 8162 Dixie Highway
City: Williamstown **County:** GRANT **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.800	117.800	153.400	131.200	103.300	124.100	129.900	133.100
Transmitting ERP (watts)	0.200	14.790	79.430	87.100	21.880	0.200	0.200	0.200

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.800	117.800	153.400	131.200	103.300	124.100	129.900	133.100
Transmitting ERP (watts)	0.200	0.200	0.200	1.660	32.360	95.500	66.070	7.760

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.800	117.800	153.400	131.200	103.300	124.100	129.900	133.100
Transmitting ERP (watts)	100.000	41.690	1.950	0.200	0.200	0.200	6.030	56.230

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837 **File Number:** 0009611060 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
8	38-12-03.3 N	085-19-18.8 W	228.6	90.8	1036180

Address: (Simpsonville) 7202 Brunerstown Road
City: SIMPSONVILLE **County:** SHELBY **State:** KY **Construction Deadline:**

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	77.800	77.700	82.200	92.900	103.900	101.600	100.000	92.400
Transmitting ERP (watts)	23.690	197.020	127.210	10.100	0.960	0.960	0.960	1.460

Antenna: 5
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	77.800	77.700	82.200	92.900	103.900	101.600	100.000	92.400
Transmitting ERP (watts)	0.700	0.700	5.510	77.010	274.490	96.500	7.530	0.740

Antenna: 6
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	77.800	77.700	82.200	92.900	103.900	101.600	100.000	92.400
Transmitting ERP (watts)	25.970	1.720	0.960	0.960	0.960	8.600	124.310	201.610

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
9	38-41-11.3 N	084-20-37.8 W	244.4	88.4	1036605

Address: RT 1 BOX 510A SNAKE HILL OFF MONROE RD
City: FALMOUTH **County:** PENDLETON **State:** KY **Construction Deadline:**

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	146.200	108.800	86.000	113.400	88.700	111.100	81.600	95.800
Transmitting ERP (watts)	0.200	11.220	72.440	91.200	25.700	0.370	0.200	0.200

Antenna: 5
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	146.200	108.800	86.000	113.400	88.700	111.100	81.600	95.800
Transmitting ERP (watts)	0.200	0.200	0.200	0.910	26.300	91.200	74.130	12.020

Antenna: 6
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	146.200	108.800	86.000	113.400	88.700	111.100	81.600	95.800
Transmitting ERP (watts)	97.720	4.900	0.210	0.200	0.200	0.200	0.200	5.370

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837 **File Number:** 0009611060 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
10	38-24-39.0 N	084-19-07.0 W	244.0	129.0	1044001

Address: 0.4 KM NE OF SR 36 2.9 KM NE

City: Cynthiana **County:** HARRISON **State:** KY **Construction Deadline:**

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.300	106.200	91.500	96.400	97.000	87.700	83.600	113.900
Transmitting ERP (watts)	0.300	12.030	75.920	91.280	26.320	0.960	0.200	0.200

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.300	106.200	91.500	96.400	97.000	87.700	83.600	113.900
Transmitting ERP (watts)	0.350	0.200	0.200	1.000	26.940	93.400	74.190	10.720

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	106.300	106.200	91.500	96.400	97.000	87.700	83.600	113.900
Transmitting ERP (watts)	100.080	50.160	3.980	0.270	0.200	0.200	4.080	50.160

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
11	38-09-19.0 N	084-54-05.0 W	243.8	67.1	1036604

Address: 396 OLD HARRODSBURG RD

City: FRANKFORT **County:** FRANKLIN **State:** KY **Construction Deadline:**

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.400	89.800	61.900	68.700	66.700	57.900	65.300	79.300
Transmitting ERP (watts)	3.550	22.910	39.810	22.390	3.310	0.270	0.100	0.300

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	87.400	89.700	61.900	68.700	66.700	57.900	65.200	79.300
Transmitting ERP (watts)	49.000	6.310	0.490	0.200	0.980	12.030	64.600	97.770

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	38-39-42.6 N	085-11-59.5 W	260.6	64.0	1235824

Address: (Carrollton) 211 Davis Lane

City: CARROLLTON **County:** CARROLL **State:** KY **Construction Deadline:**

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.800	130.700	115.800	93.100	74.200	96.700	62.500	115.500
Transmitting ERP (watts)	13.140	322.530	387.760	42.520	4.060	1.230	1.020	1.020

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837 **File Number:** 0009611060 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	38-39-42.6 N	085-11-59.5 W	260.6	64.0	1235824

Address: (Carrollton) 211 Davis Lane
City: CARROLLTON **County:** CARROLL **State:** KY **Construction Deadline:**

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.800	130.700	115.800	93.100	74.200	96.700	62.500	115.500
Transmitting ERP (watts)	0.760	2.050	53.790	380.820	138.270	8.330	1.290	0.760

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	99.800	130.700	115.800	93.100	74.200	96.700	62.500	115.500
Transmitting ERP (watts)	1.140	1.020	1.020	3.970	144.070	499.530	109.290	5.110

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	38-34-31.7 N	085-10-49.7 W	254.8	92.0	1000357

Address: 1299 MILL CREEK RD
City: TURNERS CORNER **County:** HENRY **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.700	134.900	138.900	105.800	75.600	92.700	100.700	106.700
Transmitting ERP (watts)	0.390	10.470	67.610	87.100	22.910	1.150	0.200	0.200

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.700	134.900	138.900	105.800	75.600	92.700	100.700	106.700
Transmitting ERP (watts)	0.370	0.200	0.200	1.260	23.990	87.100	66.070	10.000

Antenna: 4
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	149.700	134.900	138.900	105.800	75.600	92.700	100.700	106.700
Transmitting ERP (watts)	95.500	43.650	3.550	0.200	0.200	0.200	3.980	44.670

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	38-40-30.2 N	084-58-18.8 W	245.7	91.1	1000358

Address: 7238 KENTUCKY HWY 47
City: SANDERS **County:** CARROLL **State:** KY **Construction Deadline:**

Antenna: 2
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	135.500	116.800	113.800	90.000	115.700	134.700	115.100	130.100
Transmitting ERP (watts)	0.200	0.910	26.300	91.200	74.130	12.020	0.200	0.200

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837 **File Number:** 0009611060 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
14	38-40-30.2 N	084-58-18.8 W	245.7	91.1	1000358

Address: 7238 KENTUCKY HWY 47

City: SANDERS **County:** CARROLL **State:** KY **Construction Deadline:**

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	135.500	116.800	113.800	90.000	115.700	134.700	115.100	130.100
Transmitting ERP (watts)	3.390	0.200	0.200	0.200	4.070	24.940	33.110	26.080

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	135.500	116.800	113.800	90.000	115.700	134.700	115.100	130.100
Transmitting ERP (watts)	30.230	33.150	18.280	0.380	0.200	0.200	0.200	10.140

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
15	38-22-31.0 N	085-10-05.6 W	271.3	126.2	1000277

Address: 474 ELM ST

City: EMINENCE **County:** HENRY **State:** KY **Construction Deadline:**

Antenna: 4

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.400	115.800	125.100	97.500	110.900	108.400	102.900	96.500
Transmitting ERP (watts)	0.350	3.550	37.150	93.330	77.620	18.620	1.740	0.200

Antenna: 5

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.400	115.800	125.100	97.500	110.900	108.400	102.900	96.500
Transmitting ERP (watts)	8.320	0.680	0.200	0.740	8.910	57.540	100.000	56.230

Antenna: 6

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	93.400	115.800	125.100	97.500	110.900	108.400	102.900	96.500
Transmitting ERP (watts)	77.620	93.330	35.480	3.390	0.270	0.200	1.860	19.500

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	38-36-14.0 N	085-20-21.9 W	262.7	126.2	1043334

Address: COLBERT LANE

City: BEDFORD **County:** TRIMBLE **State:** KY **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.700	114.200	128.200	102.700	100.400	180.500	135.200	147.800
Transmitting ERP (watts)	18.090	60.420	1.770	2.060	1.770	1.770	11.150	67.550

Licensee Name: CELLCO PARTNERSHIP

Call Sign: KNKN837 **File Number:** 0009611060 **Print Date:** 08-31-2021

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	38-36-14.0 N	085-20-21.9 W	262.7	126.2	1043334

Address: COLBERT LANE

City: BEDFORD **County:** TRIMBLE **State:** KY **Construction Deadline:**

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.700	114.200	128.200	102.700	100.400	180.500	135.200	147.800
Transmitting ERP (watts)	2.500	37.650	400.090	508.440	97.060	4.000	2.110	1.770

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	119.700	114.200	128.200	102.700	100.400	180.500	135.200	147.800
Transmitting ERP (watts)	3.280	1.770	1.770	3.180	133.980	496.870	390.980	21.150

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	38-12-30.4 N	084-50-11.5 W	233.5	54.8	

Address: Hwy 127 East 916 East Main Street

City: Frankfort **County:** FRANKLIN **State:** KY **Construction Deadline:** 02-05-2011

Antenna: 1

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.600	35.900	31.000	25.800	60.900	56.300	86.000	56.700
Transmitting ERP (watts)	458.530	214.470	17.840	0.910	0.910	0.910	24.060	224.580

Antenna: 2

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.600	35.900	31.000	25.800	60.900	56.300	86.000	56.700
Transmitting ERP (watts)	0.910	53.690	223.450	268.120	98.870	3.650	0.910	0.910

Antenna: 3

Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	75.600	35.900	31.000	25.800	60.900	56.300	86.000	56.700
Transmitting ERP (watts)	0.910	0.910	0.910	7.110	61.760	33.430	37.730	41.260

Control Points:

Control Pt. No. 3

Address: 500 W. Dove Rd

City: Southlake **County:** TARRANT **State:** TX **Telephone Number:** (800)264-6620

Waivers/Conditions:

NONE

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQGA717	0009798778
Radio Service	
AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
02-22-2022	02-22-2022	11-29-2036	02-23-2022

Market Number	Channel Block	Sub-Market Designator
REA003	F	27

Market Name
Great Lakes

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

Waivers/Conditions:

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

AWS operations must not cause harmful interference across the Canadian or Mexican Border. The authority granted herein is subject to future international agreements with Canada or Mexico, as applicable.

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA717 **File Number:** 0009798778 **Print Date:** 02-23-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQGA718	0009793647
Radio Service	
AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
02-22-2022	02-22-2022	11-29-2036	02-23-2022

Market Number	Channel Block	Sub-Market Designator
REA004	F	15

Market Name
Mississippi Valley

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

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA718 **File Number:** 0009793647 **Print Date:** 02-23-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQGA940	0009774996
Radio Service	
AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
12-21-2021	12-21-2021	11-29-2036	12-21-2021

Market Number	Channel Block	Sub-Market Designator
BEA047	B	11

Market Name
Lexington, KY-TN-VA-WV

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

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA940 **File Number:** 0009774996 **Print Date:** 12-21-2021

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQGA958	0009775568
Radio Service	
AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
01-03-2022	01-03-2022	11-29-2036	01-05-2022

Market Number	Channel Block	Sub-Market Designator
BEA070	B	0

Market Name
Louisville, KY-IN

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

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGA958 **File Number:** 0009775568 **Print Date:** 01-05-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQGD757	0010160394
Radio Service	
AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
01-10-2022	09-23-2022	12-18-2036	02-10-2023

Market Number	Channel Block	Sub-Market Designator
BEA070	C	0

Market Name
Louisville, KY-IN

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

Waivers/Conditions:

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

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGD757 **File Number:** 0010160394 **Print Date:** 02-10-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQGD776	0009792983
Radio Service	
AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
02-15-2022	02-15-2022	12-18-2036	02-16-2022

Market Number	Channel Block	Sub-Market Designator
CMA411	A	0

Market Name
Indiana 9 - Decatur

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

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQGD776 **File Number:** 0009792983 **Print Date:** 02-16-2022

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQJQ691	
Radio Service	
WU - 700 MHz Upper Band (Block C)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
09-20-2019	06-17-2022	06-13-2029	

Market Number	Channel Block	Sub-Market Designator
REA003	C	0

Market Name
Great Lakes

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-13-2013	06-13-2019		

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules

Conditions:

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

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

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQJQ691 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE NETWORK ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WQJQ692	
Radio Service	
WU - 700 MHz Upper Band (Block C)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
01-10-2020	02-11-2021	06-13-2029	

Market Number	Channel Block	Sub-Market Designator
REA004	C	0

Market Name
Mississippi Valley

1st Build-out Date	2nd Build-out Date	3rd Build-out Date	4th Build-out Date
06-13-2013	06-13-2019		

Waivers/Conditions:

If the facilities authorized herein are used to provide broadcast operations, whether exclusively or in combination with other services, the licensee must seek renewal of the license either within eight years from the commencement of the broadcast service or within the term of the license had the broadcast service not been provided, whichever period is shorter in length. See 47 CFR §27.13(b).

This authorization is conditioned upon compliance with section 27.16 of the Commission's rules

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.

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WQJQ692 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: CELLCO PARTNERSHIP

ATTN: REGULATORY
CELLCO PARTNERSHIP
5055 NORTH POINT PKWY, NP2NE ENGINEERING
ALPHARETTA, GA 30022

Call Sign	File Number
WRWF637	0010170298
Radio Service	
AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003290673

Grant Date	Effective Date	Expiration Date	Print Date
09-23-2022	09-23-2022	12-18-2036	02-16-2023

Market Number	Channel Block	Sub-Market Designator
BEA047	C	16

Market Name
Lexington, KY-TN-VA-WV

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

Waivers/Conditions:

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

Special Condition for AU/name change (6/4/2016): Grant of the request to update licensee name is conditioned on it not reflecting an assignment or transfer of control (see Rule 1.948); if an assignment or transfer occurred without proper notification or FCC approval, the grant is void and the station is licensed under the prior name.

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

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

FCC 601-MB
August 2021

Licensee Name: CELLCO PARTNERSHIP

Call Sign: WRWF637 **File Number:** 0010170298 **Print Date:** 02-16-2023

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

EXHIBIT B

SITE DEVELOPMENT PLAN:

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

SKYWAY TOWERS

3637 MADACA LANE
TAMPA, FL 33618

LOCUST

KY-03072

1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

TENANT: CELLCO PARTNERSHIP d/b/a VERIZON
"LV LOCUST"

NEW 245' SELF SUPPORT TOWER w/10' LIGHTNING ARRESTOR
TOTAL TOWER HEIGHT 255'

FROM CARROLL COUNTY FISCAL COURT: 440 MAIN STREET, CARROLLTON, KY 41008: HEAD SOUTH ON COURT ST TOWARD HIGHLAND AVE (217 FEET). TURN RIGHT ONTO US-42/HIGHLAND AVE (1.7 MILES). CONTINUE STRAIGHT ONTO KY-36 W (2.8 MILES). TURN LEFT ONTO STATE HWY 1492 (1.7 MILES). SLIGHT RIGHT ONTO FAIRVIEW RIDGE RD (1.0 MILE). SITE WILL BE LOCATED ON LEFT (SOUTH) SIDE OF ROAD.

FROM LOUISVILLE MTSO: 2421 HOLLOWAY ROAD LOUISVILLE, KY 40299: HEAD SOUTH ON HOLLOWAY RD TOWARD PLANTSIDE DR (0.1 MILES). TURN LEFT AT THE 1ST CROSS STREET ONTO PLANTSIDE DR (0.9 MILES). USE THE LEFT 2 LANES TO TURN LEFT ONTO BLANKENBAKER PKWY (0.7 MILES). USE THE RIGHT LANE TO TAKE THE RAMP ONTO I-64 E (0.3 MILES). MERGE ONTO I-64 E (1.6 MILES). TAKE EXIT 19B FOR KY-841 N/GENE SNYDER FWY/I-265 N (0.3 MILES). MERGE ONTO I-265/KY-841 E/GENE SNYDER FWY (8.9 MILES). TAKE EXIT 35A TO MERGE ONTO I-71 N TOWARD CINCINNATI (24.2 MILES). TAKE EXIT 34 FOR U.S. 421 TOWARD BEDFORD/CAMPBELLSBURG (0.3 MILES). TURN LEFT ONTO US-421 N/CAMPBELLSBURG RD (7.6 MILES). TURN RIGHT ONTO MAIN ST (0.2 MILES). TURN LEFT ONTO US-421 N (6.6 MILES). TURN RIGHT ONTO STATE HWY 1492 (3.4 MILES). CONTINUE ONTO FAIRVIEW RIDGE RD (469 FEET). SITE WILL BE LOCATED ON RIGHT (SOUTH) SIDE OF ROAD.

PREPARED BY: POWER OF DESIGN GROUP, LLC - (502) 437-5252

PROJECT SUMMARY

SKYWAY TOWERS SITE
LOCUST
SITE #: KY-03072

VERIZON SITE
LV LOCUST
PROJECT#: 16054011
LOCATION ID: 311922/5000359969

SITE ADDRESS
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY
E911 ADDRESS: TBD

TOWER OWNER
SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
CONTACT: CARRIE TORREY
PHONE: (813) 960-6213
MOBILE: (813) 928-4824
E-MAIL: CTORREY@SKYWAYTOWERS.COM

PROPERTY OWNER
RWF LEGACY RANCH, INC.
242 SW 5TH STREET
POMPANO BEACH, FL 33060
CONTACT: TOLEIHA WILLIAMSON, CEO
PHONE: (954) 782-2370

POLICE
CARROLL COUNTY SHERIFF
440 MAIN ST
CARROLLTON, KY 41008
PHONE: (502) 732-7010

FIRE
WESTSIDE VOLUNTEER FIRE DEPARTMENT
680 CARLISLE ST
CARROLLTON, KY 41008
PHONE: (502) 732-5668

GENERAL INFORMATION
LATITUDE : 38° 42' 20.66" N
LONGITUDE : 85° 16' 51.00" W
1983 (NAD83)
ELEVATION : 835.5'± AMSL
1988 (NAVD88)

PROPOSED LEASED PREMISES
100'-0" x 100'-0"
(10,000 SF)

VERIZON LEASE AREA
12'-0" x 30'-0"
(360 SF)

PROJECT TOTAL DISTURBED AREA
COMPOUND: (10,000 SF) = (0.23 ACRE)
ACCESS DRIVE: (12,515 SF) = (0.29 ACRE)
GROSS AREA: (22,515 SF) = (0.52 ACRE)

PROJECT DESCRIPTION

NOTE:ALL ITEMS WITHIN THESE CONSTRUCTION DOCUMENTS ARE BY TOWER OWNER'S GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS UNLESS NOTED AS (VZW GC) WHICH SHALL INCLUDE VERIZON GENERAL CONTRACTOR AND HIS SUB-CONTRACTORS. GENERALLY DESCRIBED BELOW:

SKYWAY TOWERS SCOPE:
- INSTALL A NEW 245' SELF SUPPORT TOWER w/ 10' LIGHTNING ROD (TOTAL 255')
- INSTALL A NEW TOWER FOUNDATION SYSTEM
- INSTALL A NEW 80'x75' FENCED GRAVEL COMPOUND
- INSTALL A NEW SITE H-FRAME
- INSTALL NEW TOWER LIGHTING AND TOWER LIGHTING CONTROLLER
- INSTALL A NEW ELECTRICAL SERVICE RUN TO SITE H-FRAME
- INSTALL A NEW GRAVEL ACCESS DRIVE
- NO WATER OR SEWAGE SERVICES RUN TO SITE
- INSTALL NEW TOWER & SITE GROUNDING SYSTEM
- INSTALL NEW VZW SUBSURFACE GROUNDING SYSTEM
- INSTALL A NEW 11'-6"x19'-6" CONCRETE EQUIPMENT / GENERATOR PAD
- INSTALL ELECTRICAL SERVICE CONDUIT WITH PULL TAPES FROM ILC ENCLOSURE STUB-UP WITHIN VZW EQUIPMENT PAD TO UTILITY H-FRAME
- INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC ENCLOSURE STUB-UPS TO EQUIPMENT ENCLOSURE STUB-UPS WITHIN VZW EQUIPMENT PAD
- INSTALL NEW CONDUITS WITH PULL TAPES FROM VZW ILC & EQUIPMENT ENCLOSURE STUB-UP LOCATIONS TO THE GENERATOR LOCATION WITHIN VZW EQUIPMENT PAD
- INSTALL NEW CONDUITS WITH PULL TAPES FROM RF CABINET TO OVP H-FRAME LIT FIBER LOCATION
- INSTALL (1) NEW "VERIZON ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM VZW EQUIPMENT TO NEW "VERIZON ONLY" 24" x 36" HANDHOLE OUTSIDE COMPOUND
- INSTALL (1) NEW "VERIZON ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE AND TRACER WIRE FROM NEW "VERIZON ONLY" 24" x 36" HANDHOLE OUTSIDE COMPOUND TO NEW "VERIZON ONLY" 36" x 60" HANDHOLE AT ROW
- INSTALL (1) NEW "VERIZON ONLY" FIBER OPTIC CONDUIT WITH PULL TAPE FROM NEW "VERIZON ONLY" 24" x 36" HANDHOLE OUTSIDE COMPOUND AND STUB UP AT FUTURE FIBER PEDESTAL LOCATION
- PERMANENT ELECTRIC POWER MUST BE AVAILABLE FOR VERIZON AT THE METER BASE PRIOR TO THE SITE BEING RELEASED AS TENANT READY

VERIZON SCOPE (VZW GC):
- INSTALL A NEW 11'-6"x14'-9" PREFABRICATED CANOPY ON EXISTING CONCRETE PAD
- INSTALL NEW 30KW DIESEL GENERATOR GENERATOR ON EXISTING CONCRETE PAD
- INSTALL VZW ICE BRIDGE AND FOUNDATIONS
- INSTALL VZW ANTENNA MOUNTING SUPPORT STRUCTURE ON TOWER
- INSTALL VZW ANTENNAS, LINES, COAX, GPS ANTENNA AND RADIO EQUIPMENT
- INSTALL EXISTING SUBSURFACE GROUND LEADS TO VZW EQUIPMENT & FACILITIES
- INSTALL VZW ELECTRIC SERVICE CONDUCTORS FROM UTILITY H-FRAME TO VZW ILC ENCLOSURE
- INSTALL VZW GENERATOR CIRCUITS FROM VZW ILC & EQUIPMENT ENCLOSURES TO VZW GENERATOR
- INSTALL CIRCUITS FROM VZW ILC TO VZW EQUIPMENT ENCLOSURES
- INSTALL NEW OUTDOOR OVP AND CABLING H-FRAME SUPPORT
- INSTALL (2) 1-1/4" & (1) 1" INNERDUCTS WITH PULL TAPES AND TRACER WIRE WITHIN OWNER INSTALLED "VERIZON ONLY" FIBER OPTIC CONDUITS

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

BUILDING CODE	2018 KENTUCKY BUILDING CODE
STRUCTURAL CODE	TIA/EIA-222 - REVISION G (INCLUDES ADDENDUM #2)
MECHANICAL CODE	2012 INTERNATIONAL MECHANICAL CODE (IMC 2012)
PLUMBING CODE	KENTUCKY STATE PLUMBING CODE (815 KAR CHAP. 20)
ELECTRICAL CODE	2014 NATIONAL ELECTRICAL CODE (NEC) - NFPA 70
FIRE/LIFE SAFETY CODE	2012 INTERNATIONAL FIRE CODE (2012 IFC)
ENERGY CODE	2012 INTERNATIONAL ENERGY CODE (COMMERCIAL)
GAS CODE	2009 NATIONAL FUEL GAS CODE (NFPA 54)

ACCESSIBILITY REQUIREMENTS:
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS ARE NOT REQUIRED IN ACCORDANCE WITH THE 2009 IBC BUILDING CODE.

APPLICABLE CODES

SURVEYOR
POWER OF DESIGN GROUP, LLC
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
PHONE: (502) 437-5252

ARCHITECTURAL
POWER OF DESIGN GROUP, LLC
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
PHONE: (502) 437-5252

ELECTRICAL
SHELBY ENERGY COOPERATIVE INC
ADDRESS: 620 OLD FINCHVILLE RD
SHELBYVILLE, KY 40065
CONTACT: BRIAN RICHARDSON
PHONE: (502) 437-8174
EMAIL: SHELBYENERGY@SHELBYENERGY.COM

CONSULTANT TEAM

SHEET NUMBER	DESCRIPTION
T-1	PROJECT INFORMATION, SITE MAPS, SHEET INDEX
B-1 TO B-1.1	SITE SURVEY
B-2	500' RADIUS AND ABUTTERS MAP
R-1	REVISION LOG
TOWER ELEVATION	
TE-1	TOWER ELEVATION
CIVIL	
C-1	OVERALL SITE PLAN w/AERIAL OVERLAY
C-1A	OVERALL SITE PLAN
C-3	DETAILED SITE PLAN
C-4	DIMENSIONED SITE PLAN

VICINITY MAP

LOCATION MAP

AERIAL

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

02/27/2023

STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER

EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.12.20	ISSUED FOR REVIEW
0	4.20.20	ISSUED AS FINAL
1	2.20.23	UPDATE STANDARDS

SITE INFORMATION:
LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

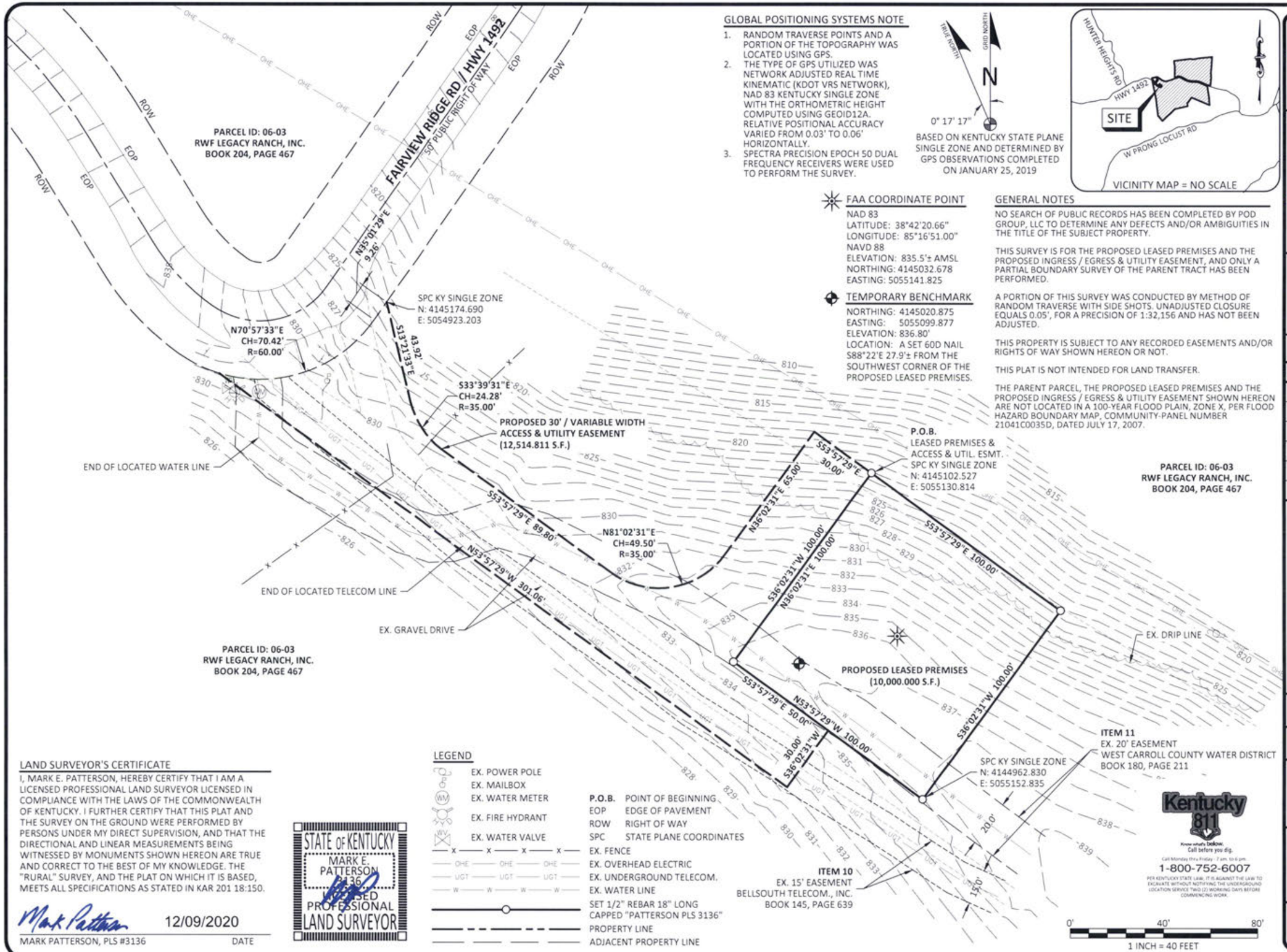
SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER:	23-149639
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	02.20.23

SHEET TITLE:
PROJECT INFORMATION, SITE MAPS, SHEET INDEX

SHEET NUMBER:
T-1



GLOBAL POSITIONING SYSTEMS NOTE

1. RANDOM TRAVERSE POINTS AND A PORTION OF THE TOPOGRAPHY WAS LOCATED USING GPS.
2. THE TYPE OF GPS UTILIZED WAS NETWORK ADJUSTED REAL TIME KINEMATIC (KDOT VRS NETWORK), NAD 83 KENTUCKY SINGLE ZONE WITH THE ORTHOMETRIC HEIGHT COMPUTED USING GEOID12A. RELATIVE POSITIONAL ACCURACY VARIED FROM 0.03' TO 0.06' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.

TRUE NORTH / GRID NORTH

N

0° 17' 17"

BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON JANUARY 25, 2019

VICINITY MAP = NO SCALE

FAA COORDINATE POINT

NAD 83
LATITUDE: 38°42'20.66"
LONGITUDE: 85°16'51.00"
NAVD 88
ELEVATION: 835.5'± AMSL
NORTHING: 4145032.678
EASTING: 5055141.825

TEMPORARY BENCHMARK

NORTHING: 4145020.875
EASTING: 5055099.877
ELEVATION: 836.80'
LOCATION: A SET 60D NAIL S88°22'E 27.9'± FROM THE SOUTHWEST CORNER OF THE PROPOSED LEASED PREMISES.

GENERAL NOTES

NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP, LLC TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE SUBJECT PROPERTY.

THIS SURVEY IS FOR THE PROPOSED LEASED PREMISES AND THE PROPOSED INGRESS / EGRESS & UTILITY EASEMENT, AND ONLY A PARTIAL BOUNDARY SURVEY OF THE PARENT TRACT HAS BEEN PERFORMED.

A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE EQUALS 0.05', FOR A PRECISION OF 1:32,156 AND HAS NOT BEEN ADJUSTED.

THIS PROPERTY IS SUBJECT TO ANY RECORDED EASEMENTS AND/OR RIGHTS OF WAY SHOWN HEREON OR NOT.

THIS PLAT IS NOT INTENDED FOR LAND TRANSFER.

THE PARENT PARCEL, THE PROPOSED LEASED PREMISES AND THE PROPOSED INGRESS / EGRESS & UTILITY EASEMENT SHOWN HEREON ARE NOT LOCATED IN A 100-YEAR FLOOD PLAIN, ZONE X, PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21041C0035D, DATED JULY 17, 2007.

LAND SURVEYOR'S CERTIFICATE

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED 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 SPECIFICATIONS AS STATED IN KAR 201 18:150.

Mark Patterson 12/09/2020

MARK PATTERSON, PLS #3136 DATE

STATE OF KENTUCKY
MARK E. PATTERSON
3136
LICENSED PROFESSIONAL LAND SURVEYOR

LEGEND

- EX. POWER POLE
- EX. MAILBOX
- EX. WATER METER
- EX. FIRE HYDRANT
- EX. WATER VALVE
- EX. FENCE
- EX. OVERHEAD ELECTRIC
- EX. UNDERGROUND TELECOM.
- EX. WATER LINE
- SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
- PROPERTY LINE
- ADJACENT PROPERTY LINE

P.O.B. POINT OF BEGINNING
EOP EDGE OF PAVEMENT
ROW RIGHT OF WAY
SPC STATE PLANE COORDINATES

Kentucky 811
Know what's below. Call before you dig.
Call Monday thru Friday - 7 a.m. to 6 p.m.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

PREPARED BY:
POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

SURVEY

REV.	DATE	DESCRIPTION
A	02.12.19	PRELIM ISSUE w/ TITLE
B	12.16.19	UPDATED TITLE REVIEW
0	12.09.20	ISSUED AS FINAL

SITE INFORMATION:

LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

TAX PARCEL NUMBER:
06-03

PROPERTY OWNERS:
RWF LEGACY RANCH, INC.
242 SW 5TH STREET
POMPANO BEACH, FL 33060

SOURCE OF TITLE:
BOOK 204, PAGE 467

SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER:	18-23435
DRAWN BY:	CPM
CHECKED BY:	MEP
SURVEY DATE:	01.25.19
PLAT DATE:	02.12.19

SHEET TITLE:
SITE SURVEY
THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

SHEET NUMBER: (2 pages)
B-1

LEGAL DESCRIPTIONS

PROPOSED LEASED PREMISES

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASED PREMISES TO BE LEASED FROM THE PROPERTY CONVEYED TO RWF LEGACY RANCH, INC. AS RECORDED IN THE CLERKS OFFICE OF CARROLL COUNTY, KENTUCKY IN BOOK 204, PAGE 467, PARCEL ID: 06-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JANUARY 25, 2019.

BEGINNING AT A SET 1/2" REBAR WITH CAP STAMPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC" IN THE NORTHERNMOST CORNER OF THE PROPOSED LEASED PREMISES HAVING A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N: 4145102.527 & E: 5055130.814 ON THE PROPERTY CONVEYED TO RWF LEGACY RANCH, INC. AS RECORDED IN BOOK 204, PAGE 467, PARCEL ID: 06-03; THENCE S53°57'29"E 100.00' TO A "SET IPC"; THENCE S36°02'31"W 100.00' TO A "SET IPC", HAVING A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N: 4144962.830, E: 5055152.835; THENCE N53°57'29"W 100.00' TO A "SET IPC"; THENCE N36°02'31"E 100.00' TO **THE POINT OF BEGINNING** CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK PATTERSON, PLS #3136 WITH POWER OF DESIGN GROUP, LLC DATED JANUARY 25, 2019.

PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' / VARIABLE WIDTH ACCESS & UTILITY EASEMENT TO BE GRANTED ON THE PROPERTY CONVEYED TO RWF LEGACY RANCH, INC. AS RECORDED IN THE CLERKS OFFICE OF CARROLL COUNTY, KENTUCKY IN BOOK 204, PAGE 467, PARCEL ID: 06-03, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEARING DATUM USED HEREIN IS BASED UPON KENTUCKY STATE PLANE COORDINATE SYSTEM, SINGLE ZONE, NAD 83, FROM A REAL TIME KINEMATIC GLOBAL POSITIONING SYSTEM OBSERVATION USING THE KENTUCKY TRANSPORTATION CABINET REAL TIME GPS NETWORK COMPLETED ON JANUARY 25, 2019.

BEGINNING AT A SET 1/2" REBAR WITH CAP STAMPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC" IN THE NORTHERNMOST CORNER OF THE PROPOSED LEASED PREMISES HAVING A STATE PLANE COORDINATE, KENTUCKY SINGLE ZONE VALUE OF N: 1415102.527 & E: 5055130.814 ON THE PROPERTY CONVEYED TO RWF LEGACY RANCH, INC. AS RECORDED IN BOOK 204, PAGE 467, PARCEL ID: 06-03; THENCE WITH THE WEST LINE OF SAID PROPOSED LEASED PREMISES S36°02'31"W 100.00' TO A "SET IPC"; THENCE WITH THE SOUTH LINE OF SAID PROPOSED LEASED PREMISES S53°57'29"E 50.00'; THENCE LEAVING SAID PROPOSED LEASED PREMISES S36°02'31"W 30.00'; THENCE N53°57'29"W 301.06' TO A POINT IN THE SOUTH RIGHT OF WAY LINE OF FAIRVIEW RIDGE RD / HWY 1492; THENCE ALONG SAID SOUTH RIGHT OF WAY LINE WITH A NON-TANGENTIAL CURVE TO THE LEFT HAVING A RADIUS OF 60.00', N70°57'33"E 70.42'; THENCE CONTINUING WITH SAID SOUTH RIGHT OF WAY LINE N35°01'29"E 9.26'; THENCE LEAVING SAID SOUTH RIGHT OF WAY LINE AND TRAVERSING PROPERTY CONVEYED TO RWF LEGACY RANCH, INC. S13°21'33"E 43.92'; THENCE WITH A CURVE TO THE LEFT HAVING A RADIUS OF 35.00', S33°39'31"E 24.28'; THENCE S53°57'29"E 89.80'; THENCE WITH A CURVE TO THE LEFT HAVING A RADIUS OF 35.00', N81°02'31"E 49.50'; THENCE N36°02'31"E 65.00'; THENCE S53°57'29"E 30.00' TO **THE POINT OF BEGINNING** CONTAINING 12,514.811 SQUARE FEET AS PER SURVEY BY MARK PATTERSON, PLS #3136 WITH POWER OF DESIGN GROUP, LLC DATED JANUARY 25, 2019.

PARENT PARCEL, DEED BOOK 204, PAGE 467 (NOT FIELD SURVEYED) PARCEL ID: 06-03

SITUATED IN THE COUNTY OF CARROLL, STATE OF KENTUCKY:

ONE HUNDRED AND THIRTY-FIVE ACRES OF LAND, BOUNDED ON THE NORTH BY THE LANDS OF BEN DONATHAN, THE HEIRS OF R. S. GROSS, DECEASED, AND L. D. KIPER, ON THE EAST BY THE LANDS OF JAMES THOMPSON AND J. E. YOUNG, ON THE SOUTH BY THE LANDS OF LOUIS CRIBBINS, AND ON THE WEST BY THE LANDS FORMERLY OWNED BY JOHN MORROW.

TAX I.D. NUMBER: 06-03

BEING THE SAME PROPERTY CONVEYED TO RWF LEGACY RANCH, INC., A FLORIDA CORPORATION, GRANTEE, FROM GARY RAY EDWARDS AND VICKIE L. EDWARDS, LINDA CARROLL JOHNSON AND RICHARD JOHNSON, LOIS FAY EDWARDS, VIVIAN K. EBLEY (FORMERLY VIVIAN K. IMEL) AND JUSTIN EBLEY, GRANTOR, BY DEED RECORDED 05/19/2017, AS BOOK 204, PAGE 467 OF THE CARROLL COUNTY RECORDS.

TITLE COMMITMENT

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC. AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESCRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE AND THIS SURVEY WAS COMPLETED WITH THE AID OF TITLE WORK PREPARED BY OLD REPUBLIC NATIONAL TITLE INSURANCE COMPANY, FOR THE BENEFIT OF SKYWAY TOWERS, LLC, COMMITMENT NO. 01-18067756-01T, COMMITMENT DATE OF NOVEMBER 6, 2019. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID REPORT.

SCHEDULE B-2, EXCEPTIONS

1. ANY DEFECT, LIEN, ENCUMBRANCE, ADVERSE CLAIM, OR OTHER MATTER THAT APPEARS FOR THE FIRST TIME IN THE PUBLIC RECORDS OR IS CREATED, ATTACHES, OR IS DISCLOSED BETWEEN THE COMMITMENT DATE AND THE DATE ON WHICH ALL OF THE SCHEDULE B, PART I—REQUIREMENTS ARE MET. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
2. FACTS WHICH WOULD BE DISCLOSED BY A COMPREHENSIVE SURVEY OF THE PREMISES HEREIN DESCRIBED. (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY OF THE PARENT PARCEL, AND THEREFORE CANNOT EXAMINE OR ADDRESS THIS ITEM.)
3. RIGHTS OR CLAIMS OF PARTIES IN POSSESSION. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
4. MECHANICS', CONTRACTORS' OR MATERIAL MEN'S LIENS AND LIEN CLAIMS, IF ANY, WHERE NO NOTICE THEREOF APPEARS OF RECORD. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
5. ANY CHANGES IN TITLE OCCURRING SUBSEQUENT TO THE EFFECTIVE DATE OF THIS COMMITMENT AND PRIOR TO THE DATE OF ISSUANCE OF THE TITLE POLICY. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
6. DELETING ANY COVENANT, CONDITION OR RESTRICTION INDICATING A PREFERENCE, LIMITATION OR DISCRIMINATION BASED ON RACE, COLOR, RELIGION, SEX, HANDICAP, FAMILIAL STATUS OR NATIONAL ORIGIN TO THE EXTENT SUCH MATTERS VIOLATE 42 USC 3604(C). NOTE: THE POLICY ISSUED HEREUNDER WILL INSURE AGAINST LOSS OR DAMAGE ARISING FROM THE PROVISIONS OF THE REFERENCED COVENANTS, CONDITIONS OR RESTRICTIONS UNDER WHICH THE LIEN OF THE INSURED MORTGAGE CAN BE EXTINGUISHED, SUBORDINATED, OR IMPAIRED. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
7. QUANTITY OF ACREAGE/SQUARE FOOTAGE AS SET FORTH IN SCHEDULE A, IF ANY. (POD GROUP, LLC DID NOT PERFORM A BOUNDARY SURVEY OF THE PARENT PARCEL, AND THEREFORE CANNOT EXAMINE OR ADDRESS THIS ITEM.)
8. TAXES AND SPECIAL ASSESSMENTS FOR CURRENT TAX YEAR AND ALL SUBSEQUENT YEARS. (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)
9. RIGHT OF WAY EASEMENTS IN FAVOR OF WEST CARROLL COUNTY WATER DISTRICT, RECORDED 03/27/1992 IN BOOK 117, PAGE 305 OF CARROLL COUNTY RECORDS. (RIGHT OF WAY EASEMENT AS RECORDED IN BOOK 117, PAGE 305 IS VAGUE IN DESCRIPTION, AND COULD NOT BE PLOTTED.)
10. EASEMENT IN FAVOR OF BELLSOUTH TELECOMMUNICATIONS, INC., RECORDED 02/12/2001, AS BOOK 145, PAGE 639 OF THE CARROLL COUNTY RECORDS. (EASEMENT AS RECORDED IN BOOK 145, PAGE 639 IS AN "AS CONSTRUCTED" EASEMENT, DOES AFFECT THE SUBJECT PROPERTY AND THE PROPOSED ACCESS & UTILITY EASEMENT BUT DOES NOT AFFECT THE PROPOSED LEASED PREMISES, AND IS SHOWN HEREON.)
11. RIGHT OF WAY EASEMENT IN FAVOR OF WEST CARROLL COUNTY WATER DISTRICT, RECORDED 08/24/2009 IN BOOK 180, PAGE 211 OF CARROLL COUNTY RECORDS. (RIGHT OF WAY EASEMENT AS RECORDED IN BOOK 180, PAGE 211 IS AN "AS CONSTRUCTED" EASEMENT, DOES AFFECT THE SUBJECT PROPERTY, THE PROPOSED ACCESS & UTILITY EASEMENT AND THE PROPOSED LEASED PREMISES, AND IS SHOWN HEREON.)
12. A MORTGAGE TO SECURE AN INDEBTEDNESS OF THE AMOUNT STATED AND ANY OTHER AMOUNTS PAYABLE UNDER THE TERMS THEREOF:
    AMOUNT: $150,000.00
    MORTGAGOR: RWF LEGACY RANCH, INC.
    MORTGAGEE: EPREM EPREMIAN
    DATED: 11/16/2018
    RECORDED 11/16/2018
    DOC#/BOOK-PAGE: 247-100
    (NOT A SURVEY MATTER, THEREFORE POD GROUP, LLC DID NOT EXAMINE OR ADDRESS THIS ITEM.)

    NOTE: SUBORDINATION, NON-DISTURBANCE AND ATTORNMENT AGREEMENT, RECORDED 02/07/2019 AS BOOK 248, PAGE 239 OF CARROLL COUNTY RECORDS. (AGREEMENT AS DESCRIBED IN BOOK 248, PAGE 239 AFFECTS THE SUBJECT PROPERTY, THE PROPOSED LEASED PREMISES AND THE PROPOSED ACCESS AND UTILITY EASEMENT.)
13. SUBJECT TO THE TERMS AND CONDITIONS MEMORANDUM OF AGREEMENT BY AND BETWEEN RWF LEGACY RANCH, INC., A FLORIDA CORPORATION (LANDLORD), AND SKYWAY TOWERS, LLC, A DELAWARE LIMITED LIABILITY COMPANY (TENANT), RECORDED 02/07/2019 AS BOOK L6, PAGE 607 OF THE CARROLL COUNTY RECORDS. (MEMORANDUM OF AGREEMENT AS DESCRIBED IN BOOK L6, PAGE 607 AFFECTS THE SUBJECT PROPERTY, THE PROPOSED LEASED PREMISES AND THE PROPOSED ACCESS AND UTILITY EASEMENT.)

STATE OF KENTUCKY
MARK E. PATTERSON
3136
LICENSED PROFESSIONAL LAND SURVEYOR

LAND SURVEYOR'S CERTIFICATE

I, MARK E. PATTERSON, HEREBY CERTIFY THAT I AM A LICENSED PROFESSIONAL LAND SURVEYOR LICENSED IN COMPLIANCE WITH THE LAWS OF THE COMMONWEALTH OF KENTUCKY. I FURTHER CERTIFY THAT THIS PLAT AND THE SURVEY ON THE GROUND WERE PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION, AND THAT THE DIRECTIONAL AND LINEAR MEASUREMENTS BEING WITNESSED 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 SPECIFICATIONS AS STATED IN KAR 201 18:150.

12/09/2020

MARK PATTERSON, PLS #3136 — DATE

PREPARED BY:
POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

SURVEY

REV.	DATE	DESCRIPTION
A	02.12.19	PRELIM ISSUE w/ TITLE
B	12.16.19	UPDATED TITLE REVIEW
0	12.09.20	ISSUED AS FINAL

SITE INFORMATION:

LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

TAX PARCEL NUMBER:
06-03

PROPERTY OWNERS:
RWF LEGACY RANCH, INC.
242 SW 5TH STREET
POMPANO BEACH, FL 33060

SOURCE OF TITLE:
BOOK 204, PAGE 467

SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER:	18-23435
DRAWN BY:	CPM
CHECKED BY:	MEP
SURVEY DATE:	01.25.19
PLAT DATE:	02.12.19

SHEET TITLE:
SITE SURVEY
THIS DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT PARCEL

SHEET NUMBER: (2 pages)
B-1.1

GENERAL NOTE:

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE CARROLL COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON JANUARY 25, 2019, RE-VERIFIED ON MARCH 17, 2020 AND RE-VERIFIED AGAIN ON FEBRUARY 14, 2023. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
3. NOT FOR RECORDING OR PROPERTY TRANSFER.

NOTE:
PARCEL NUMBERS ARE OF RECORD IN THE CARROLL COUNTY PROPERTY VALUATION ADMINISTRATOR OFFICE.

A1 PARCEL ID: 06-03
RWF LEGACY RANCH INC
242 SW 5TH STREET
POMPANO BEACH,, FL 33060

B1 PARCEL ID: 06-01
DERMON TIMOTHY W
7735 WINDCHASE DR
BEAUMONT, TX 777138826

C1 PARCEL ID: 06-16-02-01&06-16-02
BAYLES WILLIAM
532 W PRONG LOCUST RD
MILTON, KY 40045

D1 PARCEL ID: 06-14-02
BAYLES WILLIAM
532 W PRONG LOCUST RD
MILTON, KY 40045

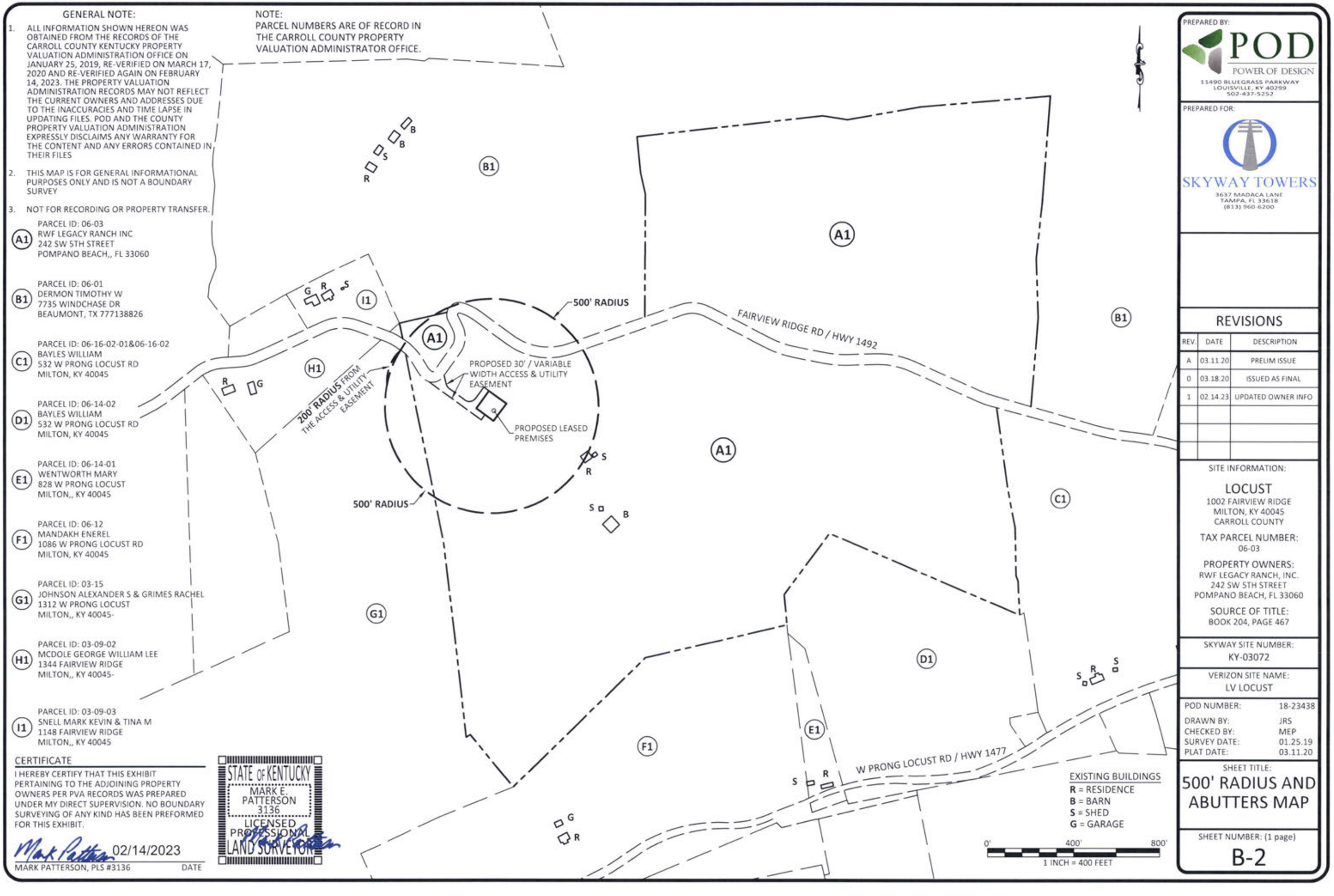
E1 PARCEL ID: 06-14-01
WENTWORTH MARY
828 W PRONG LOCUST
MILTON,, KY 40045

F1 PARCEL ID: 06-12
MANDAKH ENEREL
1086 W PRONG LOCUST RD
MILTON, KY 40045

G1 PARCEL ID: 03-15
JOHNSON ALEXANDER S & GRIMES RACHEL
1312 W PRONG LOCUST
MILTON,, KY 40045-

H1 PARCEL ID: 03-09-02
MCDOLE GEORGE WILLIAM LEE
1344 FAIRVIEW RIDGE
MILTON,, KY 40045-

I1 PARCEL ID: 03-09-03
SNELL MARK KEVIN & TINA M
1148 FAIRVIEW RIDGE
MILTON,, KY 40045



EXISTING BUILDINGS
R = RESIDENCE
B = BARN
S = SHED
G = GARAGE

0' 400' 800'
1 INCH = 400 FEET

CERTIFICATE

I HEREBY CERTIFY THAT THIS EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS PER PVA RECORDS WAS PREPARED UNDER MY DIRECT SUPERVISION. NO BOUNDARY SURVEYING OF ANY KIND HAS BEEN PREFORMED FOR THIS EXHIBIT.

Mark Patterson 02/14/2023
MARK PATTERSON, PLS #3136 DATE

STATE OF KENTUCKY
MARK E. PATTERSON
3136
LICENSED PROFESSIONAL LAND SURVEYOR

PREPARED BY:
POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

REVISIONS

REV.	DATE	DESCRIPTION
A	03.11.20	PRELIM ISSUE
0	03.18.20	ISSUED AS FINAL
1	02.14.23	UPDATED OWNER INFO

SITE INFORMATION:
LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

TAX PARCEL NUMBER:
06-03

PROPERTY OWNERS:
RWF LEGACY RANCH, INC.
242 SW 5TH STREET
POMPANO BEACH, FL 33060

SOURCE OF TITLE:
BOOK 204, PAGE 467

SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER:	18-23438
DRAWN BY:	JRS
CHECKED BY:	MEP
SURVEY DATE:	01.25.19
PLAT DATE:	03.11.20

SHEET TITLE:
500' RADIUS AND ABUTTERS MAP

SHEET NUMBER: (1 page)
B-2

REVISION LOG

REV *	MM/DD/YY	SHEET NUMBER	DESCRIPTION OF REVISION
A	3/12/2020	ALL SHEETS	ISSUED FOR REVIEW
0	4/20/2020	ALL SHEETS	ISSUED AS FINAL
1	2/20/2023	ALL SHEETS	UPDATE STANDARDS

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

02/27/2023

STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED
PROFESSIONAL ENGINEER

EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.12.20	ISSUED FOR REVIEW
0	4.20.20	ISSUED AS FINAL
1	2.20.23	UPDATE STANDARDS

SITE INFORMATION:
LOCUST

1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

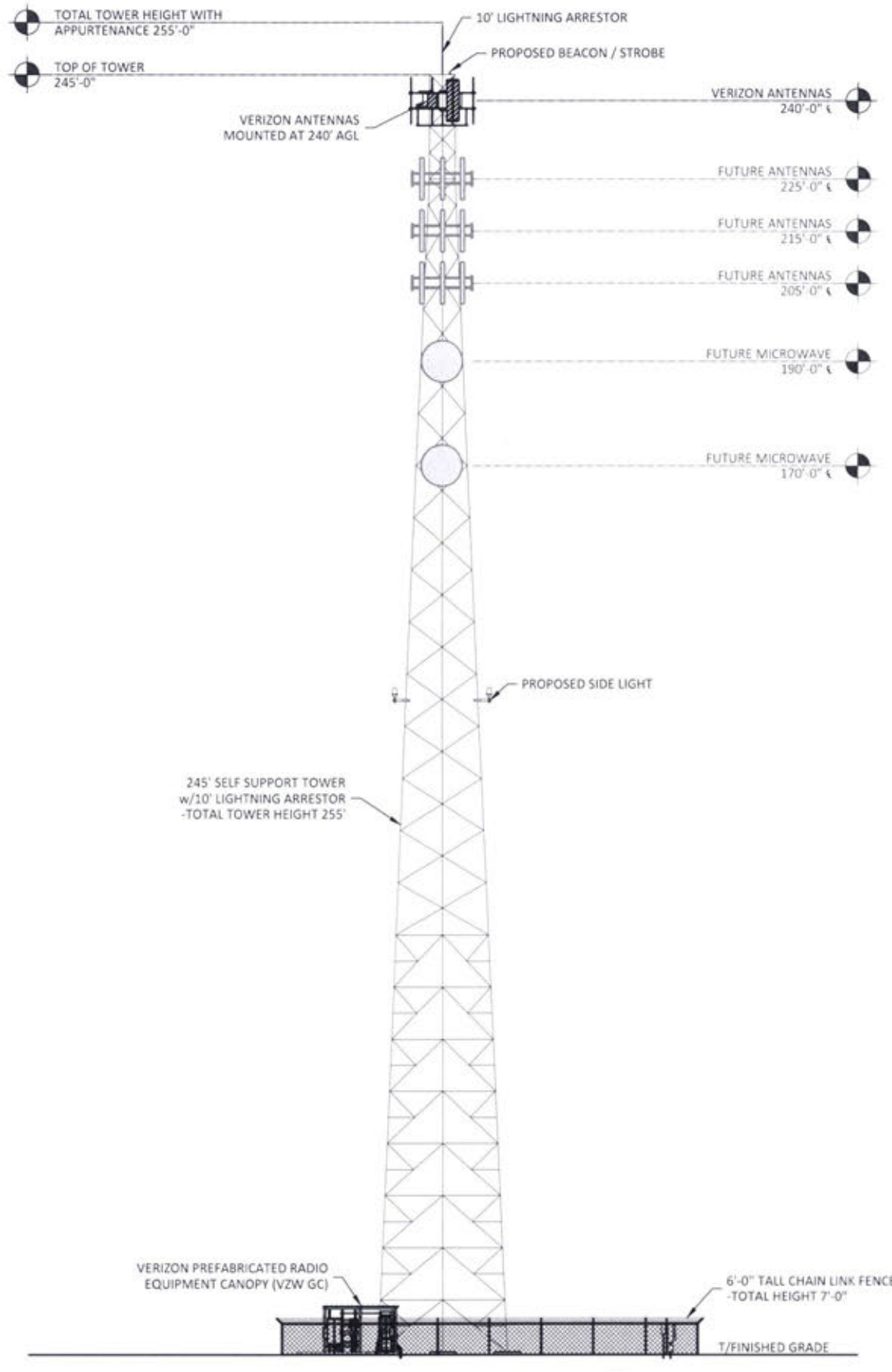
SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER: 23-149639
DRAWN BY: POD
CHECKED BY: MEP
DATE: 02.20.23

SHEET TITLE:
REVISION LOG

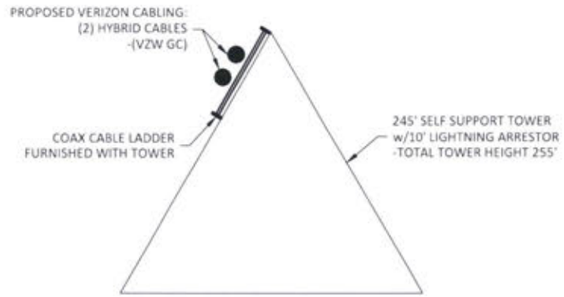
SHEET NUMBER:
R-1



TOWER ELEVATION 1 / TE-1
SCALE: N.T.S.

NOTE:

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL ANTENNA INFORMATION AGAINST FINAL RADIO ENGINEERING PLAN PROVIDED BY CELLCO PARTNERSHIP d/b/a VERIZON (VZW GC)
2. ALL TOWER LIGHTING SHALL BE INSTALLED AS REQUIRED BY THE FEDERAL AVIATION ADMINISTRATION AND RECOMMENDED BY THE USFWS INTERIM GUIDELINES (2000) FOR LIGHTING OF TOWERS OVER 200' IN HEIGHT.
3. FAA FORM 7460-2, PART 2, NOTICE OF ACTUAL CONSTRUCTION OR ALTERATION, IS REQUIRED TO BE E-FILED ANY TIME THE PROJECT IS ABANDONED OR WITHIN 5 DAYS AFTER CONSTRUCTION REACHES ITS GREATEST HEIGHT.



COAX PLAN
SCALE: N.T.S.

N

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

02/27/2023

STATE OF KENTUCKY
MARK E. PATTERSON
16,309
LICENSED
PROFESSIONAL ENGINEER

EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
A	3.12.20	ISSUED FOR REVIEW
0	4.20.20	ISSUED AS FINAL
1	2.20.23	UPDATE STANDARDS

SITE INFORMATION:
LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

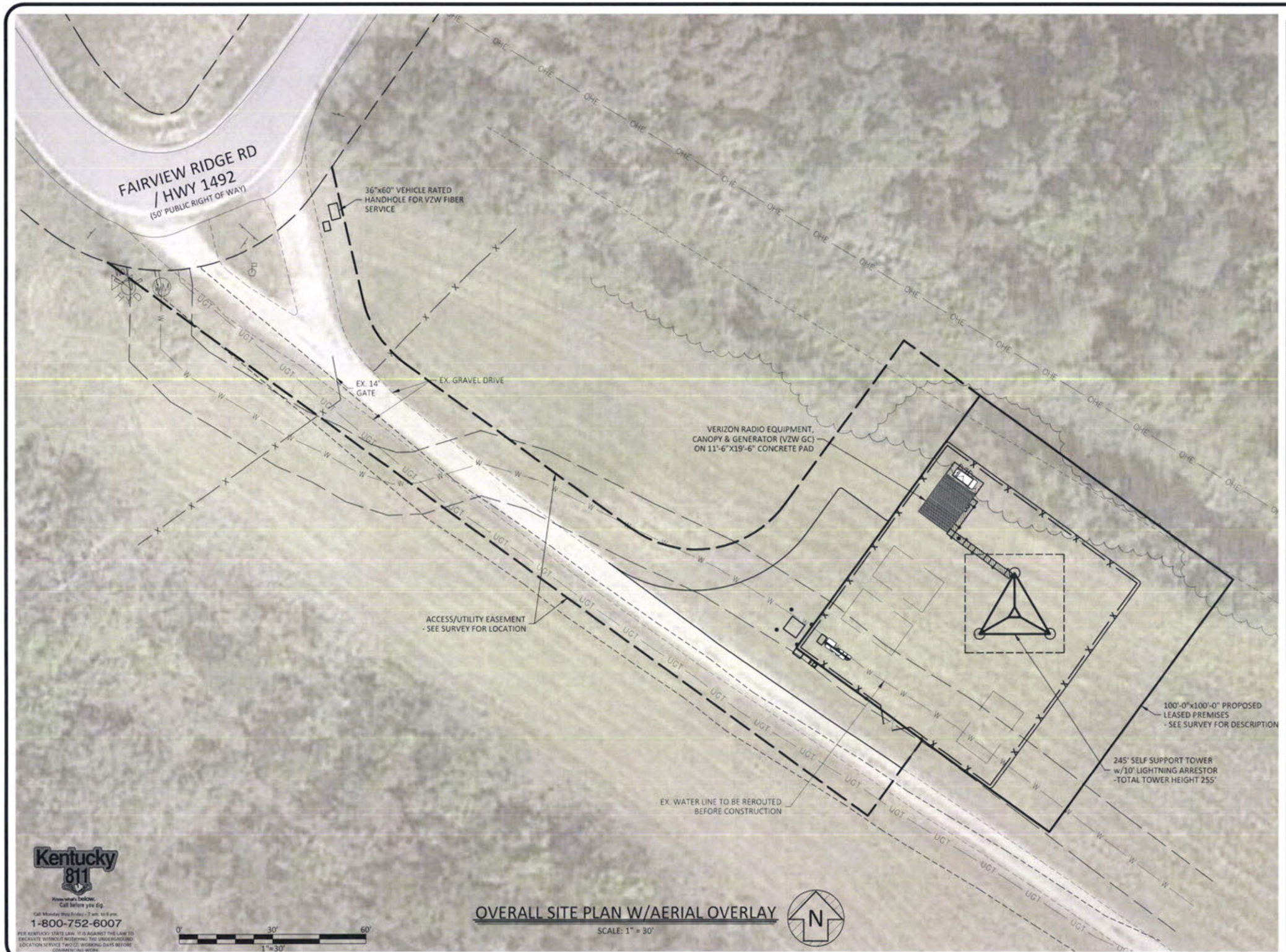
SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER: 23-149639
DRAWN BY: POD
CHECKED BY: MEP
DATE: 02.20.23

SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER:
TE-1



OVERALL SITE PLAN W/AERIAL OVERLAY

SCALE: 1" = 30'

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

02/27/2023

STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER

EN PERMIT: 3594

ZONING DRAWINGS

REV.	DATE	DESCRIPTION
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1	2.20.23	UPDATE STANDARDS

SITE INFORMATION:
LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

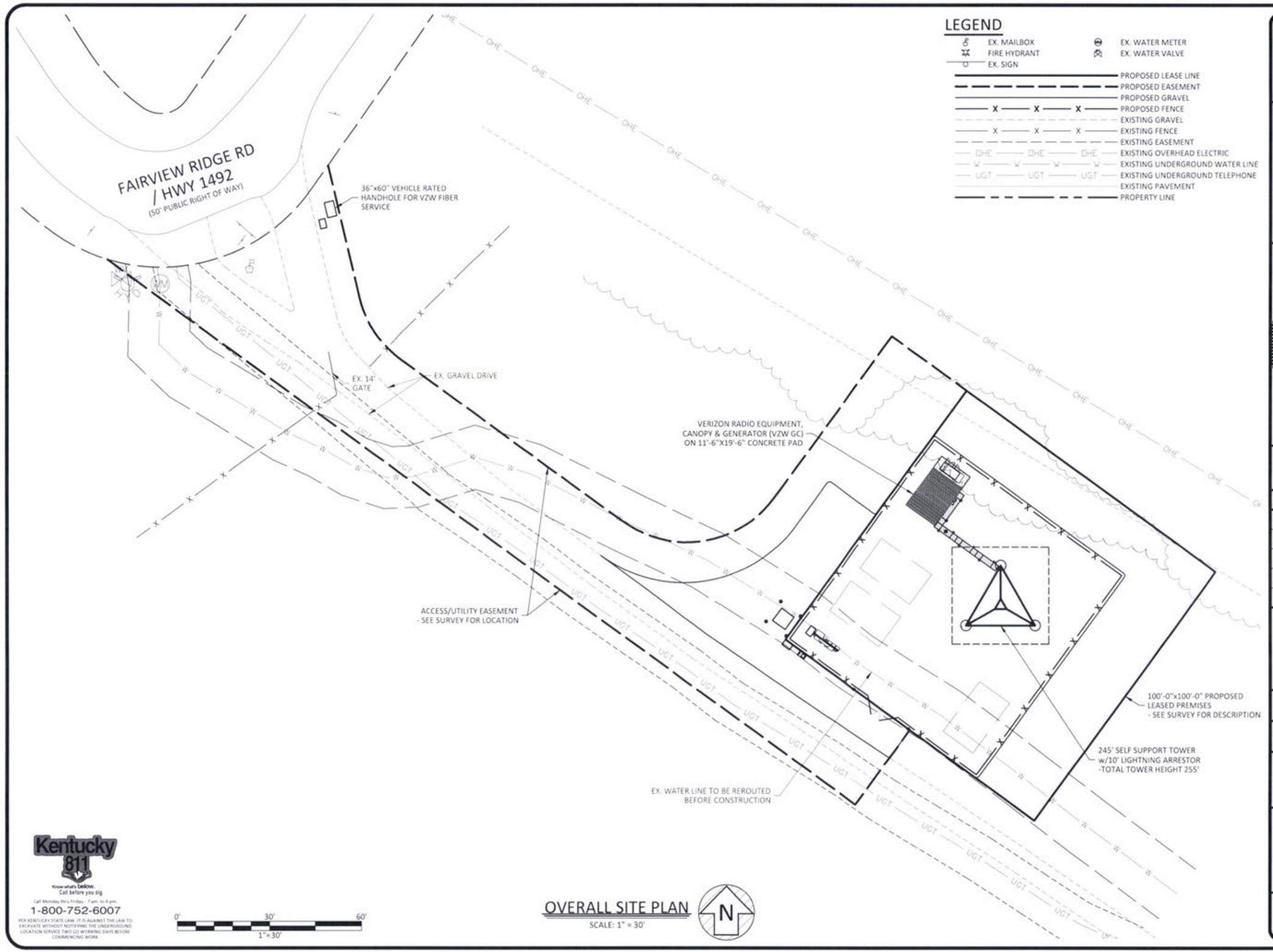
SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER:	23-149639
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	02.20.23

SHEET TITLE:
OVERALL SITE PLAN W/AERIAL OVERLAY

SHEET NUMBER:
C-1



OVERALL SITE PLAN
SCALE: 1" = 30'

0' 30' 60'
1"=30'

Kentucky 811
Know what's below. Call before you dig.
Call Monday thru Friday - 7 am. to 6 pm.
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

SKYWAY TOWERS
3637 MADACA LANE
TAMPA, FL 33618
(813) 960-6200

02/27/2023

STATE OF KENTUCKY
MARK E. PATTERSON
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EN PERMIT: 3594

ZONING DRAWINGS

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SITE INFORMATION:
LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

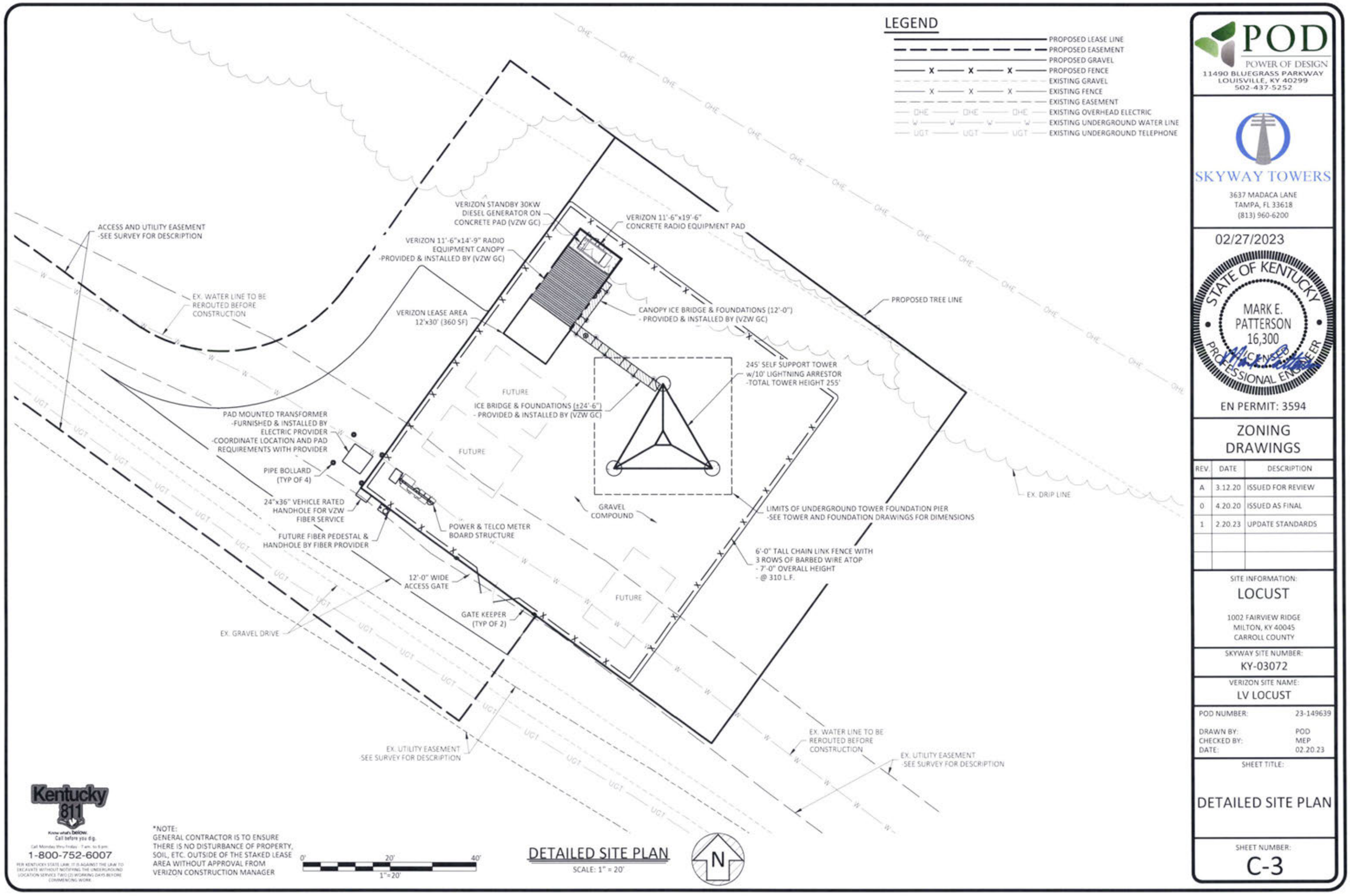
SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER:	23-149639
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	02.20.23

SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER:
C-1A



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*NOTE:
GENERAL CONTRACTOR IS TO ENSURE THERE IS NO DISTURBANCE OF PROPERTY, SOIL, ETC. OUTSIDE OF THE STAKED LEASE AREA WITHOUT APPROVAL FROM VERIZON CONSTRUCTION MANAGER

0' 20' 40'
1"=20'

DETAILED SITE PLAN
SCALE: 1" = 20'

N

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

SKYWAY TOWERS
3637 MADACA LANE
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02/27/2023

STATE OF KENTUCKY
MARK E. PATTERSON
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ZONING DRAWINGS

REV.	DATE	DESCRIPTION
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SITE INFORMATION:
LOCUST
1002 FAIRVIEW RIDGE
MILTON, KY 40045
CARROLL COUNTY

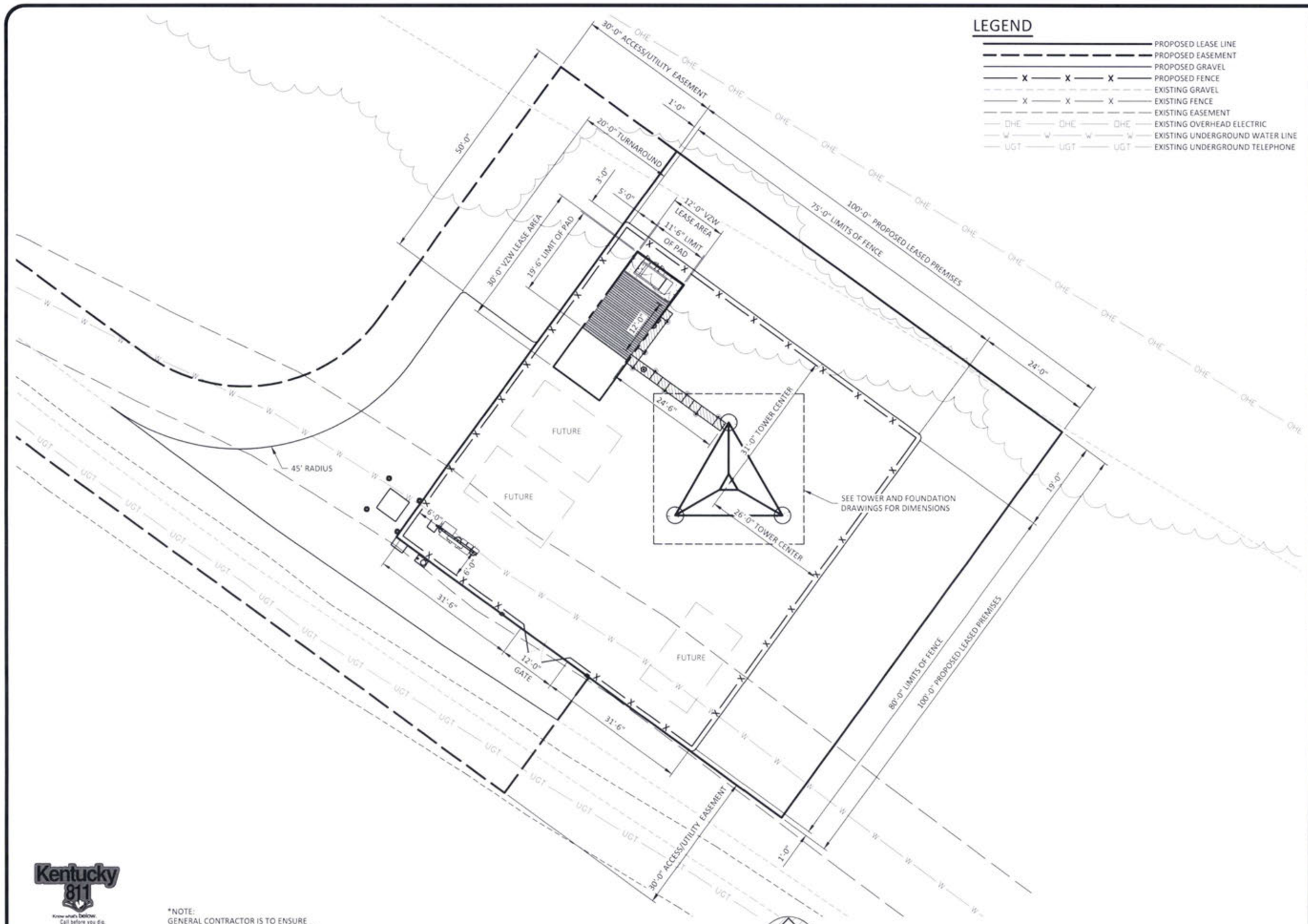
SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER:	23-149639
DRAWN BY:	POD
CHECKED BY:	MEP
DATE:	02.20.23

SHEET TITLE:
DETAILED SITE PLAN

SHEET NUMBER:
C-3



LEGEND

- PROPOSED LEASE LINE
- PROPOSED EASEMENT
- PROPOSED GRAVEL
- PROPOSED FENCE
- EXISTING GRAVEL
- EXISTING FENCE
- EXISTING EASEMENT
- EXISTING OVERHEAD ELECTRIC
- EXISTING UNDERGROUND WATER LINE
- EXISTING UNDERGROUND TELEPHONE

Kentucky 811
Know what's Below. Call before you dig.
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0' 20' 40'
1"=20'

DIMENSIONED SITE PLAN
SCALE: 1" = 20'

N

POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

SKYWAY TOWERS
3637 MADACA LANE
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02/27/2023

STATE OF KENTUCKY
MARK E. PATTERSON
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LICENSED PROFESSIONAL ENGINEER

EN PERMIT: 3594

ZONING DRAWINGS

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MILTON, KY 40045
CARROLL COUNTY

SKYWAY SITE NUMBER:
KY-03072

VERIZON SITE NAME:
LV LOCUST

POD NUMBER: 23-149639
DRAWN BY: POD
CHECKED BY: MEP
DATE: 02.20.23

SHEET TITLE:
DIMENSIONED SITE PLAN

SHEET NUMBER:
C-4

EXHIBIT C
TOWER AND FOUNDATION DESIGN

SKYWAY TOWERS

April 22, 2020

RE: KY-03073 Locust

Dear Commissioners,

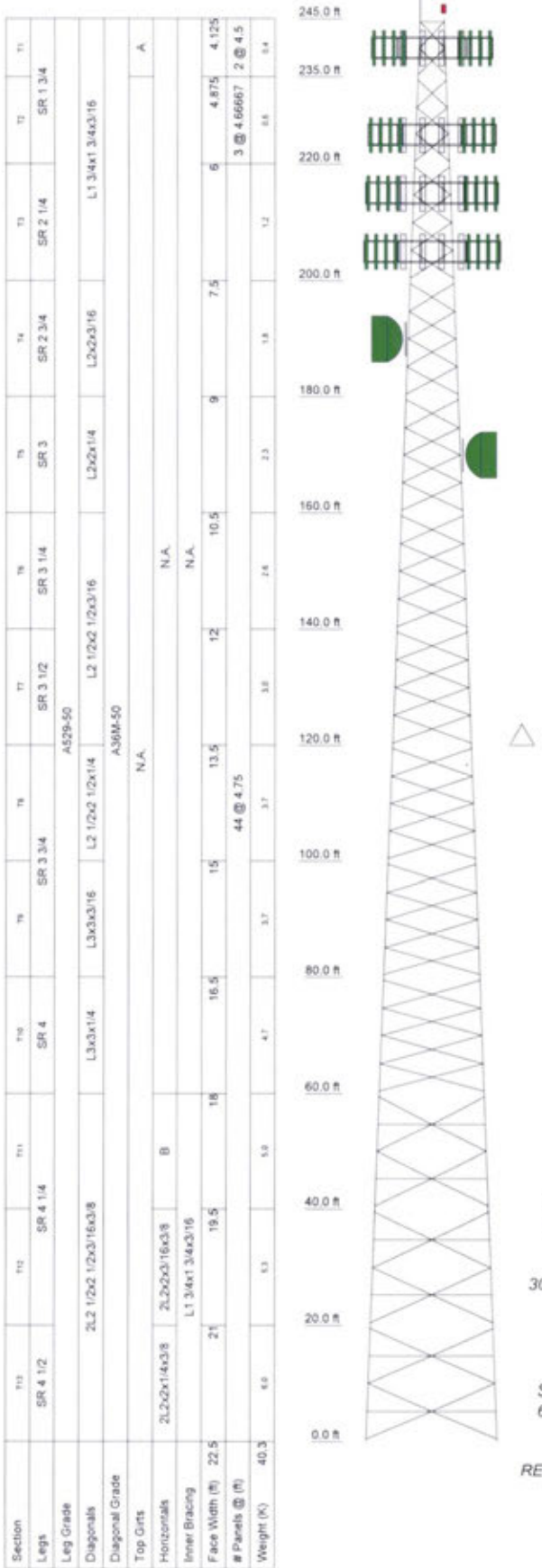
My name is **Jay Cantu,** and I am the Construction Manager for the proposed tower referenced within this application. I have been involved in the construction of wireless communications facilities for **20** years including the last 5 years as a **Construction Manager** with **Skyway Towers, LLC**. Prior to that, I held various positions at **Westower Communications in Houston, TX**.

I can be reached at **813-960-6200** to discuss this site further.

Sincerely,

Jay Cantu

Jay Cantu
Construction Manager
713-416-1545 Mobile
jcnatu@skywaytowers.com



Section	T13	T12	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	SR 4 1/2	SR 4 1/4		SR 4	SR 3 3/4		SR 3 1/2	SR 3 1/4	SR 3	SR 2 3/4	SR 2 1/4	SR 1 3/4	
Leg Grade	A529-50												
Diagonals	2L2 1/2x2 1/2x3/16x3/8			L3x3x1/4	L3x3x3/16	L2 1/2x2 1/2x1/4	L2 1/2x2 1/2x3/16		L2x2x1/4	L2x2x3/16	L1 3/4x1 3/4x3/16		
Diagonal Grade	A36M-50												
Top Girts	N.A.												A
Horizontals	2L2x2x1/4x3/8	2L2x2x3/16x3/8	B					N.A.					
Inner Bracing	L1 3/4x1 3/4x3/16							N.A.					
Face Width (ft)	22.5	21	19.5	18	16.5	15	13.5	12	10.5	9	7.5	6	4.875
# Panels @ (ft)	40.3	44 @ 4.75										3 @ 4.66667	2 @ 4.5
Weight (K)	6.6	5.3	5.0	4.7	3.7	3.7	3.8	2.6	2.3	1.8	1.2	0.6	0.4

DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Lightning Rod 1"x10'	245	4-1/2" OD Dish Mount (Carrier 5)	190
Top Beacon	245	8'HP MW Dish (60sq ft EPA bare (1000#s); 85 sq ft. EPA with 1/2" Ice (1000#s) (Carrier 5)	190
200 sq ft EPA bare (4000#s); 225 sq. ft. EPA with 1/2" ice (5000#s) (Carrier 1)	240	4-1/2" OD Dish Mount (Carrier 6)	170
150 sq ft EPA bare (4000#s); 175 sq ft EPA with 1/2" Ice (6000#s) (Carrier 2)	225	8'HP MW Dish (60sq ft EPA bare (1000#s); 85 sq ft. EPA with 1/2" Ice (1000#s) (Carrier 6)	170
125 sq ft EPA bare (4000#s); 150 sq ft EPA with 1/2" Ice (6000#s) (Carrier 3)	215		
105 sq ft EPA bare (4000#s); 130 sq ft EPA with 1/2" Ice (6000#s) (Carrier 4)	205		

SYMBOL LIST

MARK	SIZE	MARK	SIZE
A	L1 3/4x1 3/4x3/16	B	2L1 3/4x1 3/4x3/16x3/8

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

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

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:
DOWN: 532 K
SHEAR: 39 K

UPLIFT: -459 K
SHEAR: 36 K

AXIAL 217 K
SHEAR 9 K *MOMENT 1371 kip-ft*
TORQUE 4 kip-ft
30 mph WIND - 1.500 in ICE

AXIAL 88 K
SHEAR 66 K *MOMENT 9799 kip-ft*
TORQUE 43 kip-ft
REACTIONS - 106 mph WIND

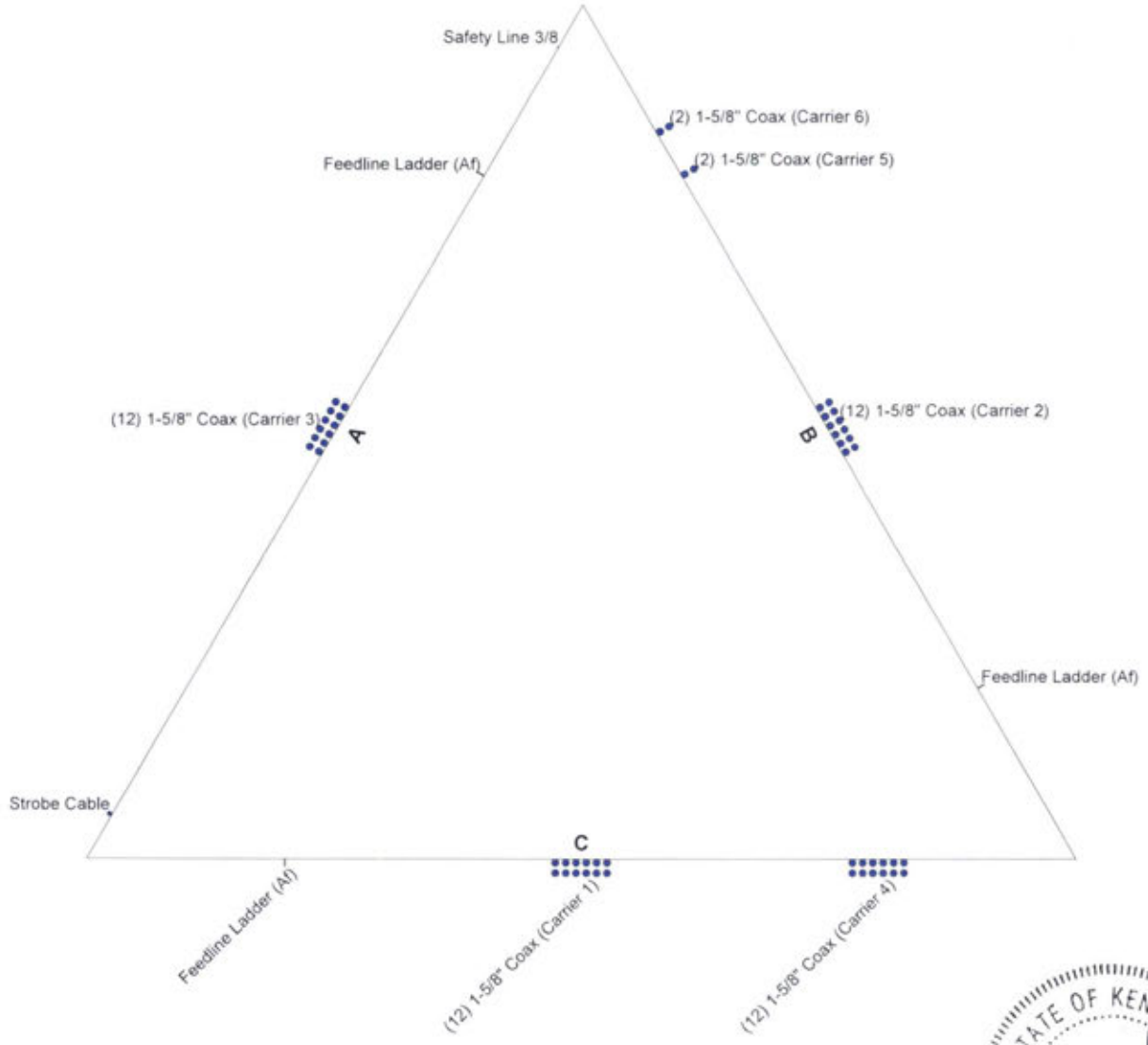
STATE OF KENTUCKY
BRAD R. MILAKOVSKY
PROFESSIONAL LICENSED ENGINEER
2/6/23

ARCOSA
TELECOM STRUCTURES

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

Job: ATS#: 9902 - Locust (Site# KY-03072)			
Project: 245' SST/38.705739, -85.280833			
Client: Skyway Towers	Drawn by: clint.coody	App'd:	
Code: TIA-222-H	Date: 02/03/23	Scale: NTS	
Path:		Dwg No. E-1	

Feed Line Plan



STATE OF KENTUCKY
BRAD F. MILANOWSKI
LICENSED PROFESSIONAL ENGINEER
2/6/23

ARCOSA
TELECOM STRUCTURES

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

Job: ATS#: 9902 - Locust (Site# KY-03072)			
Project: 245' SST/38.705739, -85.280833			
Client: Skyway Towers	Drawn by: clint.coody	App'd:	
Code: TIA-222-H	Date: 02/03/23	Scale: NTS	
Path:		Dwg No. E-7	

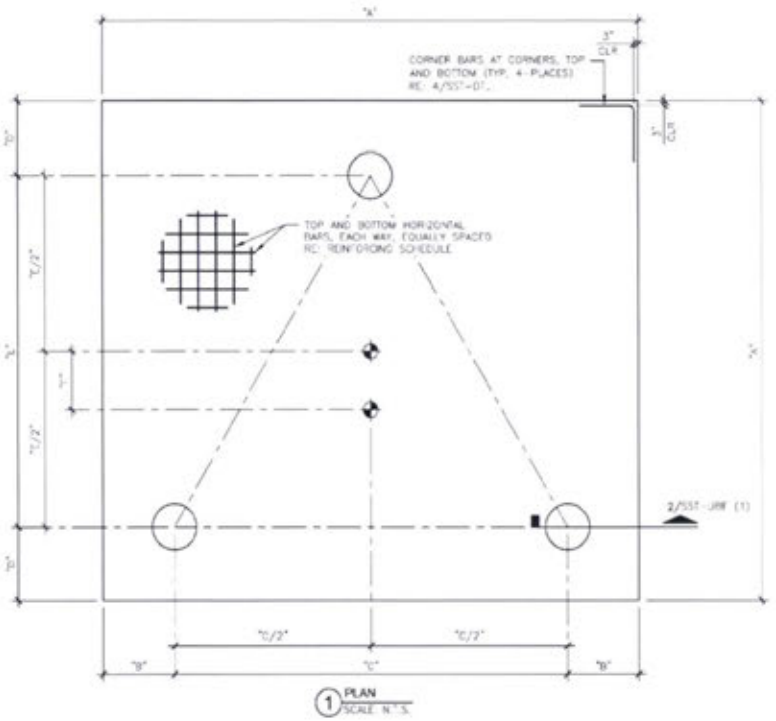
DIMENSIONING SCHEDULE	
A	31'-6"
B	4'-6"
C	22'-6"
D	6'-1/16"
E	19'-5-13/16"
F	3'-3"
J	0'-6"
K	6'-0"
L	2'-0"
MIN. OVERLAP "M"	2'-3"
DIAMETER	3'-6"

REINFORCING SCHEDULE	SIZE	TOTAL QTY
VERTICAL BARS WITH 90° BEND	#8	39
HORIZONTAL TIES	#4	42
HORIZONTAL U-BAR (PEDESTAL)	#4	12
TOP HORIZONTAL BARS	#9	70
BOTTOM HORIZONTAL BARS	#9	70
CORNER BARS	#4	8
VERTICAL U-BARS (PAD)	#4	70

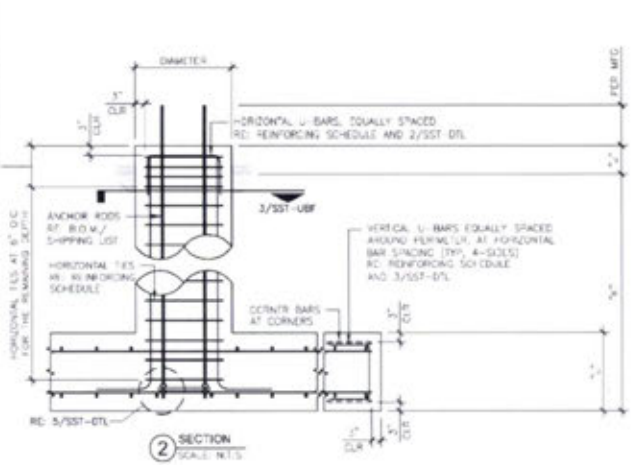
BASE REACTIONS: (FACTORED LOADS)		
GLOBAL REACTIONS		
MOMENT	9799	KIP-FT
AXIAL	88	KIPS
SHEAR	66	KIPS
REACTIONS PER LEG		
COMPRESSION AXIAL	552	KIPS
COMPRESSION SHEAR	39	KIPS
UPLIFT AXIAL	459	KIPS
UPLIFT SHEAR	36	KIPS

NOTES:
1. REINFORCEMENT STEEL SHALL CONFORM TO THE REQUIREMENT OF ASTM A-615 (GRADE 60) EXCEPT THAT TIES MAY BE ASTM 615 (GRADE 4 WITH 3" MINIMUM CLEAR COVER.
2. REINFORCEMENT STEEL SHALL BE DETAILED, FABRICATED, BENT, AND PLACED IN ACCORDANCE WITH THE CRSI MANUAL OF STANDARD PRACTICE AND THE ACI 315 (LATEST EDITION).
3. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE GEOTECH REPORT FOR THIS PROJECT AND FOLLOW THE RECOMMENDATIONS IN THAT REPORT WHEN CONSTRUCTING THE FOUNDATION.
   GEOTECHNICAL PROPERTIES BY: POWER OF DESIGN GROUP, LLC
   PROJECT NUMBER: 18.23440
   DATE: 3/27/2020
4. THIS FOUNDATION HAS BEEN DESIGNED, IN ACCORDANCE WITH THE TIA 222-H STANDARD, SPECIFICALLY FOR THE TOWER AND SOIL CONDITION REFERENCED ABOVE. IF ANYTHING DIFFERS THIS DESIGN SHALL BE CONSIDERED INVALID AND MUST BE REDESIGNED PRIOR TO CONSTRUCTION.
5. CONCRETE VOLUME IN CUBIC YARDS: 78.31
6. ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS.
7. CONCRETE MIXTURES SHALL MEET DURABILITY REQUIREMENTS OF CHAPTER 19 OF THE ACI 318-14.
8. ALL CONCRETE TESTING SHALL BE IN ACCORDANCE WITH ACI 318-14. A MINIMUM OF (2) 6"X12" OR (3) 4"X8" CONCRETE CYLINDERS PER INDIVIDUAL FOUNDATION AND A MINIMUM OF (6) 6"X12" OR (9) 4"X8" CYLINDERS PER BATCH REQUIRED.
9. SLUMP TEST SHALL BE MADE IN ACCORDANCE WITH ASTM C143. THE ALLOWABLE CONCRETE SLUMP SHALL BE 4 INCHES (±1") UNLESS ADMIXTURES ARE USED. ADMIXTURE SHALL BE IN ACCORDANCE WITH ASTM C494 STANDARD TYPES A, B, C, D OR E. THE ENGINEER SHALL PRE-APPROVE SUPER PLASTICIZER USE. DO NOT USE CHLORIDE-CONTAINING ADMIXTURES. AIR ENTRAINING ADMIXTURES SHALL CONFORM T ASTM C260.
10. BACKFILL MATERIAL SHALL BE COMPACTED TO A MINIMUM UNIT WEIGHT SPECIFIED IN GEOTECH REPORT. THE SOIL SHALL BE INSTALLED IN 6 TO 8" LIFTS AND COMPACTED THOROUGHLY TO ACHIEVE APPROPRIATE UNIT WEIGHT UNLESS GEOTECH SPECIFIES OTHER COMPACTION REQUIREMENTS.
11. VERIFY ALL DIMENSIONS AGAINST MANUFACTURER'S DRAWINGS.

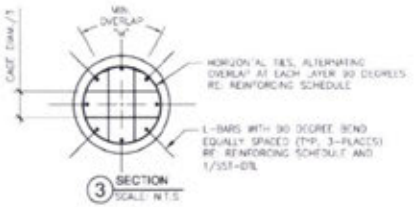
STIPULATION FOR REUSE:
1. THIS DRAWING WAS SPECIFICALLY DESIGNED FOR USE BY THE CUSTOMER ON THIS DRAWING AT THE SPECIFIED LOCATION. USE OF THIS DRAWING FOR REFERENCE OR EXAMPLE ON ANOTHER PROJECT REQUIRES THE SERVICES OF A PROPERLY LICENSED ENGINEER.



1 PLAN
SCALE: N.T.S.



2 SECTION
SCALE: N.T.S.



3 SECTION
SCALE: N.T.S.

B+T GRP
17175 BOULDER AVE #300, TULSA, OK 74119
(918) 587-4630

ARCOSA
TELECOM STRUCTURES
4020 TULL AVE. MUSKOGEE, OK 74403

ISSUED FOR:

REV	DATE	DESCRIPTION
0	02/06/23	ISSUED FOR CONSTRUCTION

COA: 4011
EXPIRES: 12/31/2023

STATE OF KENTUCKY
BRAD MILLER
LICENSED PROFESSIONAL ENGINEER
2/6/23

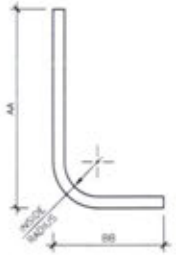
PROJECT INFORMATION
PROJECT NO: 167013.001
SITE NAME: LOCUST
SITE NO: 9902
CLIENT NAME: ARCOSA TELECOM STRUCTURES
DRAWN BY: CLINT COODY
CHECKED BY: JL

SHEET TITLE
UNIT BASE FOUNDATION

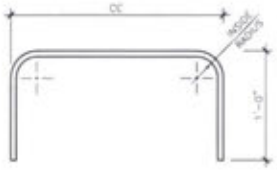
SHEET NUMBER	REVISION
SST-UBF	0

DIMENSIONING SCHEDULE	
AA*	5' 9 3/4"
BB	1' 0"
CC*	2' 9 15/16"
DD*	1' 6"
EE	3' 0"

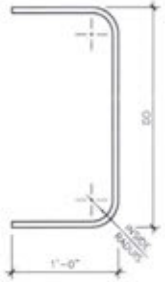
*NOTE: CONTRACTOR TO VERIFY DIMENSIONS PRIOR TO FABRICATION



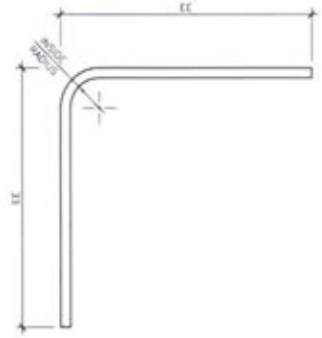
1 L-BAR
SCALE: N.T.S.



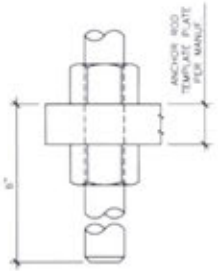
2 HORIZONTAL U-BAR
SCALE: N.T.S.



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



4 CORNER BAR
SCALE: N.T.S.



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

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

ARCOSA
TELECOM STRUCTURES
4020 TULL AVE. MUSKOGEE, OK 74403

ISSUED FOR:

REV	DATE	DESCRIPTION
0	02/06/23	ISSUED FOR CONSTRUCTION

COA: 4011

EXPIRES: 12/31/2023

STATE OF KENTUCKY
BRAD P. MILAZZO
LICENSED PROFESSIONAL ENGINEER
2/6/23

PROJECT INFORMATION

PROJECT NO: 167013.001
SITE NAME: LOCUST
SITE NO: 9902
CLIENT NAME: ARCOSA TELECOM STRUCTURES

DRAWN BY: CLINT COODY
CHECKED BY: JL

SHEET TITLE

DIMENSIONING DETAIL

SHEET NUMBER	REVISION
SST-DTL	0

SST Unit Base Foundation

Project #:	167013.001
Site Name:	Locust
Site #:	9902

TIA-222 Revision: H

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

Superstructure Analysis Reactions		
Global Moment, **M**:	9799	ft-kips
Global Axial, **P**:	88	kips
Global Shear, **V**:	66	kips
Leg Compression, P_{comp}:	532	kips
Leg Comp. Shear, V_{u_comp}:	39	kips
Leg Uplift, P_{uplift}:	459	kips
Leg Uplift. Shear, V_{u_uplift}:	36	kips
Tower Height, **H**:	245	ft
Base Face Width, **BW**:	22.5	ft
BP Dist. Above Fdn, bp_{dist}:	3	in

Pier Properties		
Pier Shape:	Circular	
Pier Diameter, **dpier**:	3.5	ft
Ext. Above Grade, **E**:	0.50	ft
Pier Rebar Size, **Sc**:	8	
Pier Rebar Quantity, **mc**:	13	
Pier Tie/Spiral Size, **St**:	4	
Pier Tie/Spiral Quantity, **mt**:	14	
Pier Reinforcement Type:	Tie	
Pier Clear Cover, cc_{pier}:	3	in

Pad Properties		
Depth, **D**:	6.00	ft
Pad Width, W_1:	31.50	ft
Pad Thickness, **T**:	2.00	ft
Pad Rebar Size (Bottom dir. 2), Sp_2:	9	
Pad Rebar Quantity (Bottom dir. 2), mp_2:	35	
Pad Clear Cover, cc_{pad}:	3	in

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

Soil Properties		
Total Soil Unit Weight, **γ**:	110	pcf
Ultimate Net Bearing, Qnet:	10.000	ksf
Cohesion, **Cu**:	2.000	ksf
Friction Angle, **ϕ**:	0	degrees
SPT Blow Count, N_{blows}:	60	
Base Friction, **μ**:	0.32	
Neglected Depth, **N**:	2.0	ft
Foundation Bearing on Rock?	Yes	
Groundwater Depth, **gw**:	N/A	ft

<-- Toggle between Gross and Net

Foundation Analysis Checks				
	Capacity	Demand	Rating	Check
Lateral (Sliding) (kips)	459.09	66.00	**14.4%**	**Pass**
Bearing Pressure (ksf)	8.00	6.05	**75.6%**	**Pass**
*Overturning (kip*ft)*	11238.26	10515.79	**93.6%**	**Pass**
*Pier Flexure (Comp.) (kip*ft)*	1279.26	175.50	**13.7%**	**Pass**
*Pier Flexure (Tension) (kip*ft)*	221.65	162.00	**73.1%**	**Pass**
Pier Compression (kip)	6123.66	539.79	**8.8%**	**Pass**
*Pad Flexure (kip*ft)*	2912.33	2767.80	**95.0%**	**Pass**
Pad Shear - 1-way (kips)	692.39	577.40	**83.4%**	**Pass**
Pad Shear - Comp 2-way (ksi)	0.190	0.148	**77.9%**	**Pass**
*Flexural 2-way (Comp) (kip*ft)*	1648.43	105.30	**6.4%**	**Pass**
Pad Shear - Tension 2-way (ksi)	0.190	0.150	**79.1%**	**Pass**
*Flexural 2-way (Tension) (kip*ft)*	1648.43	97.20	**5.9%**	**Pass**

Structural Rating:	**95.0%**
Soil Rating:	**93.6%**

Version 4.0.3

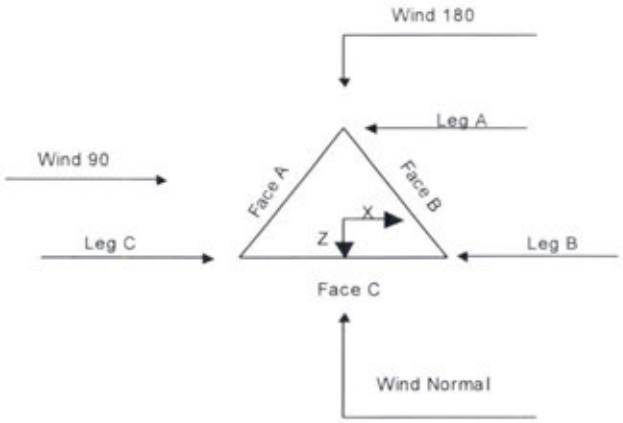
Tower Input Data

The main tower is a 3x free standing tower with an overall height of 245.000 ft above the ground line.
The base of the tower is set at an elevation of 0.000 ft above the ground line.
The face width of the tower is 4.125 ft at the top and 22.500 ft at the base.
This tower is designed using the TIA-222-H standard.
The following design criteria apply:

Tower is located in Carroll County, Kentucky.
Tower base elevation above sea level: 827.000 ft.
Basic wind speed of 106 mph.
Risk Category II.
Exposure Category C.
Simplified Topographic Factor Procedure for wind speed-up calculations is used.
Topographic Category: 1.
Crest Height: 0.000 ft.
Nominal ice thickness of 1.500 in.
Ice thickness is considered to increase with height.
Ice density of 56.000 pcf.
A wind speed of 30 mph is used in combination with ice.
Temperature drop of 50.000 °F.
Deflections calculated using a wind speed of 60 mph.
Please see feedline plan for proper feedline placement. Deviation from plan may reduce tower capacity..
A non-linear (P-delta) analysis was used.
Pressures are calculated at each section.
Stress ratio used in tower member design is 1.
Local bending stresses due to climbing loads, feed line supports, and appurtenance mounts are not considered.

Options

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



Triangular Tower

Tower Section Geometry

Tower Section	Tower Elevation	Assembly Database	Description	Section Width	Number of Sections	Section Length
	ft			ft		ft
T1	245.000-235.000			4.125	1	10.000
T2	235.000-220.000			4.875	1	15.000
T3	220.000-200.000			6.000	1	20.000
T4	200.000-180.000			7.500	1	20.000
T5	180.000-160.000			9.000	1	20.000
T6	160.000-140.000			10.500	1	20.000
T7	140.000-120.000			12.000	1	20.000
T8	120.000-100.000			13.500	1	20.000
T9	100.000-80.000			15.000	1	20.000
T10	80.000-60.000			16.500	1	20.000
T11	60.000-40.000			18.000	1	20.000
T12	40.000-20.000			19.500	1	20.000
T13	20.000-0.000			21.000	1	20.000

Tower Section Geometry *(cont'd)*

Tower Section	Tower Elevation	Diagonal Spacing	Bracing Type	Has K Brace End Panels	Has Horizontals	Top Girt Offset	Bottom Girt Offset
	ft	ft				in	in
T1	245.000-235.000	4.500	X Brace	No	No	6.000	6.000
T2	235.000-220.000	4.667	X Brace	No	No	6.000	6.000

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

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Type	Leg Size	Leg Grade	Diagonal Type	Diagonal Size	Diagonal Grade
T1 245.000-235.000	Solid Round	1 3/4	A529-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T2 235.000-220.000	Solid Round	1 3/4	A529-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T3 220.000-200.000	Solid Round	2 1/4	A529-50 (50 ksi)	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T4 200.000-180.000	Solid Round	2 3/4	A529-50 (50 ksi)	Equal Angle	L2x2x3/16	A36M-50 (50 ksi)
T5 180.000-160.000	Solid Round	3	A529-50 (50 ksi)	Equal Angle	L2x2x1/4	A36M-50 (50 ksi)
T6 160.000-140.000	Solid Round	3 1/4	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36M-50 (50 ksi)
T7 140.000-120.000	Solid Round	3 1/2	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x3/16	A36M-50 (50 ksi)
T8 120.000-100.000	Solid Round	3 3/4	A529-50 (50 ksi)	Equal Angle	L2 1/2x2 1/2x1/4	A36M-50 (50 ksi)
T9 100.000-80.000	Solid Round	3 3/4	A529-50 (50 ksi)	Equal Angle	L3x3x3/16	A36M-50 (50 ksi)
T10 80.000-60.000	Solid Round	4	A529-50 (50 ksi)	Equal Angle	L3x3x1/4	A36M-50 (50 ksi)
T11 60.000-40.000	Solid Round	4 1/4	A529-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)
T12 40.000-20.000	Solid Round	4 1/4	A529-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)
T13 20.000-0.000	Solid Round	4 1/2	A529-50 (50 ksi)	Double Equal Angle	2L2 1/2x2 1/2x3/16x3/8	A36M-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Top Girt Type	Top Girt Size	Top Girt Grade	Bottom Girt Type	Bottom Girt Size	Bottom Girt Grade
T1 245.000-235.000	Equal Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)	Solid Round		A36M-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	No. of Mid Girts	Mid Girt Type	Mid Girt Size	Mid Girt Grade	Horizontal Type	Horizontal Size	Horizontal Grade
T11 60 000-40 000	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L1 3/4x1 3/4x3/16x3/8	A36M-50 (50 ksi)
T12 40 000-20 000	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2x2x3/16x3/8	A36M-50 (50 ksi)
T13 20 000-0 000	None	Flat Bar		A36 (36 ksi)	Double Equal Angle	2L2x2x1/4x3/8	A36M-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Secondary Horizontal Type	Secondary Horizontal Size	Secondary Horizontal Grade	Inner Bracing Type	Inner Bracing Size	Inner Bracing Grade
T11 60 000-40 000	Solid Round		A36M-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T12 40 000-20 000	Solid Round		A36M-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)
T13 20 000-0 000	Solid Round		A36M-50 (50 ksi)	Single Angle	L1 3/4x1 3/4x3/16	A36M-50 (50 ksi)

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Gusset Area (per face) ft²	Gusset Thickness in	Gusset Grade	Adjust. Factor A_f	Adjust. Factor A_r	Weight Mult.	Double Angle Stitch Bolt Spacing Diagonals in	Double Angle Stitch Bolt Spacing Horizontals in	Double Angle Stitch Bolt Spacing Redundants in
T1 245 000-235 000	0 000	0 375	A36M-50 (50 ksi)	1	1	1	36 000	36 000	36 000
T2 235 000-220 000	0 000	0 375	A36M-50 (50 ksi)	1	1	1	36 000	36 000	36 000
T3 220 000-200 000	0 000	0 375	A36M-50 (50 ksi)	1	1	1	36 000	36 000	36 000
T4 200 000-180 000	0 000	0 375	A36M-50 (50 ksi)	1	1	1	36 000	36 000	36 000
T5 180 000-160 000	0 000	0 375	A36M-50 (50 ksi)	1	1	1	36 000	36 000	36 000
T6	0 000	0 375	A36M-50	1	1	1	36 000	36 000	36 000

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

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Calc K Single Angles	Calc K Solid Rounds	K Factors[1] Legs	X Brace Diags X Y	K Brace Diags X Y	Single Diags X Y	Girts X Y	Horiz. X Y	Sec. Horiz. X Y	Inner Brace X Y
T1 245.000-235.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T2 235.000-220.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T3 220.000-200.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T4 200.000-180.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T5 180.000-160.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T6 160.000-140.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T7 140.000-120.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T8 120.000-100.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1
T9 100.000-80.000	No	No	1	1 1	1 1	1 1	1 1	1 1	1 1	1 1

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

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

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Net Width Deduct in	Leg U	Diagonal Net Width Deduct in	Diagonal U	Top Girt Net Width Deduct in	Top Girt U	Bottom Girt Net Width Deduct in	Bottom Girt U	Mid Girt Net Width Deduct in	Mid Girt U	Long Horizontal Net Width Deduct in	Long Horizontal U	Short Horizontal Net Width Deduct in	Short Horizontal U
T1	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
245.000-235.000														
T2	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
235.000-220.000														
T3	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
220.000-200.000														
T4	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
200.000-180.000														
T5	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
180.000-160.000														
T6	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
160.000-140.000														
T7	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
140.000-120.000														
T8	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
120.000-100.000														
T9	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
100.000-80.000														
T10	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
80.000-60.000														
T11	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
60.000-40.000														
T12	0.000	1	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
40.000-20.000														

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

Tower Elevation ft	Redundant Horizontal		Redundant Diagonal		Redundant Sub-Diagonal		Redundant Sub-Horizontal		Redundant Vertical		Redundant Hip		Redundant Hip Diagonal	
	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U	Net Width Deduct in	U
T1 245.000-235.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T2 235.000-220.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T3 220.000-200.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T4 200.000-180.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T5 180.000-160.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T6 160.000-140.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T7 140.000-120.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T8 120.000-100.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T9 100.000-80.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T10 80.000-60.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T11 60.000-40.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T12 40.000-20.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75
T13 20.000-0.000	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75	0.000	0.75

Tower Section Geometry *(cont'd)*

Tower Elevation ft	Leg Connection Type	Leg		Diagonal		Top Girt		Bottom Girt		Mid Girt		Long Horizontal		Short Horizontal	
		Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.	Bolt Size in	No.
T1 245.000-235.000	Flange	0.000 A325N	0	0.625 A325X	1	0.625 A325X	1	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T2 235.000-220.000	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T3 220.000-200.000	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T4 200.000-180.000	Flange	0.750 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T5 180.000-160.000	Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T6 160.000-140.000	Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T7 140.000-120.000	Flange	1.000 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T8 120.000-100.000	Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T9 100.000-80.000	Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T10 80.000-60.000	Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.000 A325X	0	0.625 A325N	0
T11 60.000-40.000	Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.625 A325X	1	0.625 A325N	0
T12 40.000-20.000	Flange	1.250 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.625 A325X	1	0.625 A325N	0
T13 20.000-0.000	Flange	1.500 A325N	6	0.625 A325X	1	0.000 A325X	0	0.000 A325X	0	0.625 A325N	0	0.625 A325X	1	0.625 A325N	0

Feed Line/Linear Appurtenances - Entered As Round Or Flat

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
1-5/8" Coax (Carrier 1) **	C	No	No	Ar (CaAa)	240.000 - 10.000	0.000	0	12	6	0.750	1.980		0.001
1-5/8" Coax (Carrier 2) **	B	No	No	Ar (CaAa)	225.000 - 10.000	0.000	0	12	6	0.750	1.980		0.001
1-5/8" Coax (Carrier 3) *	A	No	No	Ar (CaAa)	215.000 - 10.000	0.000	0	12	6	0.750	1.980		0.001
1-5/8" Coax (Carrier 4) *	C	No	No	Ar (CaAa)	205.000 - 10.000	0.000	-0.3	12	6	0.750	1.980		0.001

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Face Offset in	Lateral Offset (Frac FW)	#	# Per Row	Clear Spacing in	Width or Diameter in	Perimeter in	Weight klf
1-5/8" Coax (Carrier 5) *	B	No	No	Ar (CaAa)	190.000 - 10.000	0.000	-0.3	2	1	0.750	1.980		0.001
1-5/8" Coax (Carrier 6) *	B	No	No	Ar (CaAa)	170.000 - 10.000	0.000	-0.35	2	1	0.750	1.980		0.001
Safety Line 3/8	A	No	No	Ar (CaAa)	245.000 - 10.000	0.000	0.45	1	1	0.375	0.375		0.000
Strobe Cable **	A	No	No	Ar (CaAa)	245.000 - 10.000	0.000	-0.45	1	1	1.250	1.250		0.001
Feedline Ladder (Af)	C	No	No	Af (CaAa)	240.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008
Feedline Ladder (Af)	B	No	No	Af (CaAa)	225.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008
Feedline Ladder (Af) **	A	No	No	Af (CaAa)	215.000 - 10.000	0.000	0.3	1	1	3.000	0.250		0.008

Feed Line/Linear Appurtenances - Entered As Area

Description	Face or Leg	Allow Shield	Exclude From Torque Calculation	Component Type	Placement ft	Total Number	C_AA_A ft²/ft	Weight klf
**								

Feed Line/Linear Appurtenances Section Areas

Tower Section	Tower Elevation ft	Face	A_R ft²	A_F ft²	C_AA_A In Face ft²	C_AA_A Out Face ft²	Weight K
T1	245.000-235.000	A	0.000	0.000	1.625	0.000	0.009
		B	0.000	0.000	0.000	0.000	0.000
		C	0.000	0.000	12.088	0.000	0.091
T2	235.000-220.000	A	0.000	0.000	2.438	0.000	0.014
		B	0.000	0.000	12.088	0.000	0.091
		C	0.000	0.000	36.265	0.000	0.274
T3	220.000-200.000	A	0.000	0.000	39.515	0.000	0.292
		B	0.000	0.000	48.353	0.000	0.365
		C	0.000	0.000	60.233	0.000	0.414
T4	200.000-180.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	52.313	0.000	0.381
		C	0.000	0.000	95.873	0.000	0.562
T5	180.000-160.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	60.233	0.000	0.414
		C	0.000	0.000	95.873	0.000	0.562
T6	160.000-140.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	64.193	0.000	0.430
		C	0.000	0.000	95.873	0.000	0.562

Tower Section	Tower Elevation ft	Face	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T7	140.000-120.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	64.193	0.000	0.430
		C	0.000	0.000	95.873	0.000	0.562
T8	120.000-100.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	64.193	0.000	0.430
		C	0.000	0.000	95.873	0.000	0.562
T9	100.000-80.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	64.193	0.000	0.430
		C	0.000	0.000	95.873	0.000	0.562
T10	80.000-60.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	64.193	0.000	0.430
		C	0.000	0.000	95.873	0.000	0.562
T11	60.000-40.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	64.193	0.000	0.430
		C	0.000	0.000	95.873	0.000	0.562
T12	40.000-20.000	A	0.000	0.000	51.603	0.000	0.383
		B	0.000	0.000	64.193	0.000	0.430
		C	0.000	0.000	95.873	0.000	0.562
T13	20.000-0.000	A	0.000	0.000	25.802	0.000	0.192
		B	0.000	0.000	32.097	0.000	0.215
		C	0.000	0.000	47.937	0.000	0.281

Feed Line/Linear Appurtenances Section Areas - With Ice

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft^2	A_F ft^2	C_AA_A In Face ft^2	C_AA_A Out Face ft^2	Weight K
T1	245.000-235.000	A	1.829	0.000	0.000	8.942	0.000	0.127
		B		0.000	0.000	0.000	0.000	0.000
		C		0.000	0.000	15.178	0.000	0.361
T2	235.000-220.000	A	1.819	0.000	0.000	13.354	0.000	0.189
		B		0.000	0.000	15.153	0.000	0.359
		C		0.000	0.000	45.458	0.000	1.078
T3	220.000-200.000	A	1.805	0.000	0.000	63.032	0.000	1.321
		B		0.000	0.000	60.457	0.000	1.429
		C		0.000	0.000	73.558	0.000	1.705
T4	200.000-180.000	A	1.787	0.000	0.000	77.813	0.000	1.665
		B		0.000	0.000	72.734	0.000	1.601
		C		0.000	0.000	112.553	0.000	2.515
T5	180.000-160.000	A	1.767	0.000	0.000	77.446	0.000	1.651
		B		0.000	0.000	97.253	0.000	1.944
		C		0.000	0.000	112.215	0.000	2.497
T6	160.000-140.000	A	1.745	0.000	0.000	77.038	0.000	1.634
		B		0.000	0.000	109.114	0.000	2.099
		C		0.000	0.000	111.838	0.000	2.477
T7	140.000-120.000	A	1.720	0.000	0.000	76.577	0.000	1.616
		B		0.000	0.000	108.508	0.000	2.073
		C		0.000	0.000	111.413	0.000	2.454
T8	120.000-100.000	A	1.692	0.000	0.000	76.048	0.000	1.595
		B		0.000	0.000	107.812	0.000	2.043
		C		0.000	0.000	110.925	0.000	2.428
T9	100.000-80.000	A	1.658	0.000	0.000	75.425	0.000	1.571
		B		0.000	0.000	106.992	0.000	2.008
		C		0.000	0.000	110.350	0.000	2.398
T10	80.000-60.000	A	1.617	0.000	0.000	74.661	0.000	1.542
		B		0.000	0.000	105.987	0.000	1.965
		C		0.000	0.000	109.646	0.000	2.361
T11	60.000-40.000	A	1.564	0.000	0.000	73.669	0.000	1.504

Tower Section	Tower Elevation ft	Face or Leg	Ice Thickness in	A_R ft²	A_F ft²	C_AA_A In Face ft²	C_AA_A Out Face ft²	Weight K
		B		0.000	0.000	104.682	0.000	1.911
		C		0.000	0.000	108.732	0.000	2.313
T12	40.000-20.000	A	1.486	0.000	0.000	72.226	0.000	1.450
		B		0.000	0.000	102.785	0.000	1.834
		C		0.000	0.000	107.402	0.000	2.245
T13	20.000-0.000	A	1.331	0.000	0.000	34.681	0.000	0.673
		B		0.000	0.000	49.512	0.000	0.843
		C		0.000	0.000	52.384	0.000	1.056

Feed Line Center of Pressure

Section	Elevation ft	CP_X in	CP_Z in	CP_X Ice in	CP_Z Ice in
T1	245.000-235.000	-0.936	2.214	-2.128	1.125
T2	235.000-220.000	0.349	2.118	-1.164	2.068
T3	220.000-200.000	1.714	-2.416	0.292	-1.390
T4	200.000-180.000	5.254	-2.281	3.071	-1.659
T5	180.000-160.000	6.102	-4.231	3.892	-4.085
T6	160.000-140.000	6.342	-5.154	4.323	-5.474
T7	140.000-120.000	6.812	-5.512	4.675	-5.895
T8	120.000-100.000	7.234	-5.832	5.003	-6.272
T9	100.000-80.000	7.140	-5.740	5.136	-6.412
T10	80.000-60.000	7.441	-5.965	5.408	-6.694
T11	60.000-40.000	9.439	-7.559	6.510	-7.948
T12	40.000-20.000	9.774	-7.817	6.867	-8.246
T13	20.000-0.000	6.382	-4.996	4.654	-5.303

Shielding Factor Ka

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T1	1	1-5/8" Coax	235.00 - 240.00	0.6000	0.5569
T1	13	Safety Line 3/8	235.00 - 245.00	0.6000	0.5569
T1	14	Strobe Cable	235.00 - 245.00	0.6000	0.5569
T1	16	Feedline Ladder (Af)	235.00 - 240.00	0.6000	0.5569
T2	1	1-5/8" Coax	220.00 - 235.00	0.6000	0.6000
T2	3	1-5/8" Coax	220.00 - 225.00	0.6000	0.6000
T2	13	Safety Line 3/8	220.00 - 235.00	0.6000	0.6000
T2	14	Strobe Cable	220.00 - 235.00	0.6000	0.6000
T2	16	Feedline Ladder (Af)	220.00 - 235.00	0.6000	0.6000
T2	17	Feedline Ladder (Af)	220.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T3	1	1-5/8" Coax	225.00 - 200.00	0.6000	0.6000
T3	3	1-5/8" Coax	220.00 - 200.00	0.6000	0.6000
T3	5	1-5/8" Coax	220.00 - 200.00	0.6000	0.6000
T3	7	1-5/8" Coax	215.00 - 200.00	0.6000	0.6000
T3	13	Safety Line 3/8	205.00 - 200.00	0.6000	0.6000
T3	14	Strobe Cable	220.00 - 200.00	0.6000	0.6000
T3	16	Feedline Ladder (Af)	220.00 - 200.00	0.6000	0.6000
T3	17	Feedline Ladder (Af)	220.00 - 200.00	0.6000	0.6000
T3	18	Feedline Ladder (Af)	215.00 - 200.00	0.6000	0.6000
T4	1	1-5/8" Coax	200.00 - 180.00	0.6000	0.6000
T4	3	1-5/8" Coax	200.00 - 180.00	0.6000	0.6000
T4	5	1-5/8" Coax	200.00 - 180.00	0.6000	0.6000
T4	7	1-5/8" Coax	200.00 - 180.00	0.6000	0.6000
T4	9	1-5/8" Coax	190.00 - 180.00	0.6000	0.6000
T4	13	Safety Line 3/8	200.00 - 180.00	0.6000	0.6000
T4	14	Strobe Cable	200.00 - 180.00	0.6000	0.6000
T4	16	Feedline Ladder (Af)	200.00 - 180.00	0.6000	0.6000
T4	17	Feedline Ladder (Af)	200.00 - 180.00	0.6000	0.6000
T4	18	Feedline Ladder (Af)	200.00 - 180.00	0.6000	0.6000
T5	1	1-5/8" Coax	180.00 - 160.00	0.6000	0.6000
T5	3	1-5/8" Coax	180.00 - 160.00	0.6000	0.6000
T5	5	1-5/8" Coax	180.00 - 160.00	0.6000	0.6000
T5	7	1-5/8" Coax	180.00 - 160.00	0.6000	0.6000
T5	9	1-5/8" Coax	180.00 - 160.00	0.6000	0.6000
T5	11	1-5/8" Coax	170.00 - 160.00	0.6000	0.6000
T5	13	Safety Line 3/8	180.00 - 160.00	0.6000	0.6000
T5	14	Strobe Cable	180.00 - 160.00	0.6000	0.6000
T5	16	Feedline Ladder (Af)	180.00 - 160.00	0.6000	0.6000
T5	17	Feedline Ladder (Af)	180.00 - 160.00	0.6000	0.6000
T5	18	Feedline Ladder (Af)	180.00 - 160.00	0.6000	0.6000
T6	1	1-5/8" Coax	140.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
T6	3	1-5/8" Coax	140.00 - 160.00	0.6000	0.6000
T6	5	1-5/8" Coax	140.00 - 160.00	0.6000	0.6000
T6	7	1-5/8" Coax	140.00 - 160.00	0.6000	0.6000
T6	9	1-5/8" Coax	140.00 - 160.00	0.6000	0.6000
T6	11	1-5/8" Coax	140.00 - 160.00	0.6000	0.6000
T6	13	Safety Line 3/8	140.00 - 160.00	0.6000	0.6000
T6	14	Strobe Cable	140.00 - 160.00	0.6000	0.6000
T6	16	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T6	17	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T6	18	Feedline Ladder (Af)	140.00 - 160.00	0.6000	0.6000
T7	1	1-5/8" Coax	120.00 - 140.00	0.6000	0.6000
T7	3	1-5/8" Coax	120.00 - 140.00	0.6000	0.6000
T7	5	1-5/8" Coax	120.00 - 140.00	0.6000	0.6000
T7	7	1-5/8" Coax	120.00 - 140.00	0.6000	0.6000
T7	9	1-5/8" Coax	120.00 - 140.00	0.6000	0.6000
T7	11	1-5/8" Coax	120.00 - 140.00	0.6000	0.6000
T7	13	Safety Line 3/8	120.00 - 140.00	0.6000	0.6000
T7	14	Strobe Cable	120.00 - 140.00	0.6000	0.6000
T7	16	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T7	17	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T7	18	Feedline Ladder (Af)	120.00 - 140.00	0.6000	0.6000
T8	1	1-5/8" Coax	100.00 - 120.00	0.6000	0.6000
T8	3	1-5/8" Coax	100.00 - 120.00	0.6000	0.6000
T8	5	1-5/8" Coax	100.00 - 120.00	0.6000	0.6000
T8	7	1-5/8" Coax	100.00 - 120.00	0.6000	0.6000
T8	9	1-5/8" Coax	100.00 - 120.00	0.6000	0.6000
T8	11	1-5/8" Coax	100.00 - 120.00	0.6000	0.6000
T8	13	Safety Line 3/8	100.00 - 120.00	0.6000	0.6000
T8	14	Strobe Cable	100.00 - 120.00	0.6000	0.6000
T8	16	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T8	17	Feedline Ladder (Af)	100.00 -	0.6000	0.6000

Tower Section	Feed Line Record No.	Description	Feed Line Segment Elev.	K_a No Ice	K_a Ice
			120.00		
T8	18	Feedline Ladder (Af)	100.00 - 120.00	0.6000	0.6000
T9	1	1-5/8" Coax	80.00 - 100.00	0.6000	0.6000
T9	3	1-5/8" Coax	80.00 - 100.00	0.6000	0.6000
T9	5	1-5/8" Coax	80.00 - 100.00	0.6000	0.6000
T9	7	1-5/8" Coax	80.00 - 100.00	0.6000	0.6000
T9	9	1-5/8" Coax	80.00 - 100.00	0.6000	0.6000
T9	11	1-5/8" Coax	80.00 - 100.00	0.6000	0.6000
T9	13	Safety Line 3/8	80.00 - 100.00	0.6000	0.6000
T9	14	Strobe Cable	80.00 - 100.00	0.6000	0.6000
T9	16	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T9	17	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T9	18	Feedline Ladder (Af)	80.00 - 100.00	0.6000	0.6000
T10	1	1-5/8" Coax	60.00 - 80.00	0.6000	0.6000
T10	3	1-5/8" Coax	60.00 - 80.00	0.6000	0.6000
T10	5	1-5/8" Coax	60.00 - 80.00	0.6000	0.6000
T10	7	1-5/8" Coax	60.00 - 80.00	0.6000	0.6000
T10	9	1-5/8" Coax	60.00 - 80.00	0.6000	0.6000
T10	11	1-5/8" Coax	60.00 - 80.00	0.6000	0.6000
T10	13	Safety Line 3/8	60.00 - 80.00	0.6000	0.6000
T10	14	Strobe Cable	60.00 - 80.00	0.6000	0.6000
T10	16	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T10	17	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T10	18	Feedline Ladder (Af)	60.00 - 80.00	0.6000	0.6000
T11	1	1-5/8" Coax	40.00 - 60.00	0.6000	0.6000
T11	3	1-5/8" Coax	40.00 - 60.00	0.6000	0.6000
T11	5	1-5/8" Coax	40.00 - 60.00	0.6000	0.6000
T11	7	1-5/8" Coax	40.00 - 60.00	0.6000	0.6000
T11	9	1-5/8" Coax	40.00 - 60.00	0.6000	0.6000
T11	11	1-5/8" Coax	40.00 - 60.00	0.6000	0.6000
T11	13	Safety Line 3/8	40.00 - 60.00	0.6000	0.6000
T11	14	Strobe Cable	40.00 - 60.00	0.6000	0.6000
T11	16	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T11	17	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T11	18	Feedline Ladder (Af)	40.00 - 60.00	0.6000	0.6000
T12	1	1-5/8" Coax	20.00 - 40.00	0.6000	0.6000
T12	3	1-5/8" Coax	20.00 - 40.00	0.6000	0.6000
T12	5	1-5/8" Coax	20.00 - 40.00	0.6000	0.6000
T12	7	1-5/8" Coax	20.00 - 40.00	0.6000	0.6000
T12	9	1-5/8" Coax	20.00 - 40.00	0.6000	0.6000
T12	11	1-5/8" Coax	20.00 - 40.00	0.6000	0.6000
T12	13	Safety Line 3/8	20.00 - 40.00	0.6000	0.6000
T12	14	Strobe Cable	20.00 - 40.00	0.6000	0.6000
T12	16	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T12	17	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T12	18	Feedline Ladder (Af)	20.00 - 40.00	0.6000	0.6000
T13	1	1-5/8" Coax	10.00 - 20.00	0.6000	0.6000
T13	3	1-5/8" Coax	10.00 - 20.00	0.6000	0.6000
T13	5	1-5/8" Coax	10.00 - 20.00	0.6000	0.6000
T13	7	1-5/8" Coax	10.00 - 20.00	0.6000	0.6000
T13	9	1-5/8" Coax	10.00 - 20.00	0.6000	0.6000
T13	11	1-5/8" Coax	10.00 - 20.00	0.6000	0.6000
T13	13	Safety Line 3/8	10.00 - 20.00	0.6000	0.6000
T13	14	Strobe Cable	10.00 - 20.00	0.6000	0.6000
T13	16	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T13	17	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000
T13	18	Feedline Ladder (Af)	10.00 - 20.00	0.6000	0.6000

Discrete Tower Loads

Description	Face or Leg	Offset Type	Offsets: Horz Lateral ft / Vert ft / ft	Azimuth Adjustment °	Placement ft		C_AA_A Front ft^2	C_AA_A Side ft^2	Weight K
Lightning Rod 1"x10'	C	From Leg	0.000 0.000 5.000	0.000	245.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.000 2.017 3.050 5.148	1.000 2.017 3.050 5.148	0.040 0.049 0.065 0.116
Top Beacon	B	From Leg	0.000 0.000 1.000	0.000	245.000	No Ice 1/2" Ice 1" Ice 2" Ice	2.700 3.100 3.500 4.300	2.700 3.100 3.500 4.300	0.050 0.070 0.090 0.130
**									
200 sq ft EPA bare (4000#s), 225 sq ft EPA with 1/2" ice (6000#s) (Carrier 1)	C	None		0.000	240.000	No Ice 1/2" Ice 1" Ice 2" Ice	200.000 225.000 250.000 300.000	200.000 225.000 250.000 300.000	4.000 6.000 8.000 12.000
*									
150 sq ft EPA bare (4000#s), 175 sq ft EPA with 1/2" Ice (6000#s) (Carrier 2)	C	None		0.000	225.000	No Ice 1/2" Ice 1" Ice 2" Ice	150.000 175.000 200.000 250.000	150.000 175.000 200.000 250.000	4.000 6.000 8.000 12.000
**									
125 sq ft EPA bare (4000#s), 150 sq ft EPA with 1/2" Ice (6000#s) (Carrier 3)	C	None		0.000	215.000	No Ice 1/2" Ice 1" Ice 2" Ice	125.000 150.000 175.000 225.000	125.000 150.000 175.000 225.000	4.000 6.000 8.000 12.000
**									
105 sq ft EPA bare (4000#s), 130 sq ft EPA with 1/2" Ice (6000#s) (Carrier 4)	C	None		0.000	205.000	No Ice 1/2" Ice 1" Ice 2" Ice	105.000 130.000 155.000 205.000	105.000 130.000 155.000 205.000	4.000 6.000 8.000 12.000
**									
4-1/2" OD Dish Mount (Carrier 5)	C	From Leg	0.500 0.000 0.000	0.000	190.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.881 2.207 2.543 3.241	1.881 2.207 2.543 3.241	0.057 0.074 0.094 0.148
**									
4-1/2" OD Dish Mount (Carrier 6)	B	From Leg	0.500 0.000 0.000	0.000	170.000	No Ice 1/2" Ice 1" Ice 2" Ice	1.881 2.207 2.543 3.241	1.881 2.207 2.543 3.241	0.057 0.074 0.094 0.148
**									

Dishes

Description	Face or Leg	Dish Type	Offset Type	Offsets: Horz Lateral Vert ft	Azimuth Adjustment °	3 dB Beam Width °	Elevation ft	Outside Diameter ft		Aperture Area ft²	Weight K
8'HP MW Dish (60sq ft EPA bare (1000#s); 85 sq ft EPA with 1/2" Ice (1000#s) (Carrier 5) **	C	Paraboloid w/Shroud (HP)	From Leg	1.000 0.000 0.000	0.000		190.000	8.000	No Ice 1/2" Ice 1" Ice 2" Ice	60.000 85.000 110.000 160.000	1.000 1.000 1.000 1.000
8'HP MW Dish (60sq ft EPA bare (1000#s); 85 sq ft EPA with 1/2" Ice (1000#s) (Carrier 6) **	B	Paraboloid w/Shroud (HP)	From Leg	1.000 0.000 0.000	0.000		170.000	8.000	No Ice 1/2" Ice 1" Ice 2" Ice	60.000 85.000 110.000 160.000	1.000 1.000 1.000 1.000

Load Combinations

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

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

Maximum Member Forces

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T1	245 - 235	Leg	Max Tension	15	7.451	1.530	-0.001
			Max. Compression	18	-10.427	0.092	0.004
			Max. Mx	2	-10.418	-1.749	0.004
			Max. My	4	-1.844	-0.048	0.636
			Max. Vy	2	-3.685	0.094	-0.000
			Max. Vx	24	2.272	0.009	0.124
		Diagonal	Max Tension	20	3.509	0.000	0.000
			Max. Compression	8	-3.456	0.000	0.000
			Max. Mx	2	0.059	0.024	-0.001
			Max. My	8	-3.442	0.000	-0.015
			Max. Vy	31	0.018	0.010	0.002
			Max. Vx	8	0.005	0.000	0.000
		Top Girt	Max Tension	22	1.001	0.000	0.000
			Max. Compression	3	-1.194	0.000	0.000
			Max. Mx	31	-0.098	-0.026	0.000
			Max. My	28	0.025	0.000	0.001
			Max. Vy	31	0.025	0.000	0.000
			Max. Vx	28	-0.001	0.000	0.000
T2	235 - 220	Leg	Max Tension	15	30.703	1.483	0.001
			Max. Compression	2	-37.176	1.031	-0.004
			Max. Mx	2	-37.175	-1.938	0.004
			Max. My	16	-3.997	-0.069	0.879
			Max. Vy	2	-5.934	1.031	-0.004
			Max. Vx	4	2.194	-0.066	-0.879
		Diagonal	Max Tension	4	5.135	0.000	0.000
			Max. Compression	20	-4.698	0.000	0.000
			Max. Mx	14	0.036	-0.098	-0.002
			Max. My	4	-4.681	-0.021	0.085
			Max. Vy	14	-0.031	0.097	-0.002
			Max. Vx	4	-0.024	0.000	0.000
T3	220 - 200	Leg	Max Tension	15	76.350	2.504	-0.001
			Max. Compression	2	-90.883	1.570	-0.027
			Max. Mx	2	-37.195	3.963	-0.013
			Max. My	4	-4.034	-0.071	-1.973
			Max. Vy	2	-9.776	1.570	-0.027
			Max. Vx	16	-3.404	-0.066	0.939
		Diagonal	Max Tension	4	7.674	0.000	0.000
			Max. Compression	20	-6.989	0.000	0.000
			Max. Mx	14	-0.592	0.043	-0.001
			Max. My	20	-6.962	-0.009	0.036
			Max. Vy	33	-0.028	0.033	0.002
			Max. Vx	20	-0.009	0.000	0.000

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T4	200 - 180	Leg	Max Tension	15	126.222	3.264	0.164
			Max. Compression	2	-144.281	0.865	0.025
			Max. Mx	2	-90.906	6.402	-0.060
			Max. My	16	-8.298	-0.015	2.640
			Max. Vy	2	-10.234	0.865	0.025
			Max. Vx	12	4.397	-0.032	-0.472
		Diagonal	Max Tension	8	8.309	0.000	0.000
			Max. Compression	24	-8.260	0.000	0.000
			Max. Mx	31	1.051	0.038	0.003
			Max. My	22	-7.503	0.004	0.014
			Max. Vy	32	0.036	0.036	0.003
			Max. Vx	22	-0.003	0.000	0.000
T5	180 - 160	Leg	Max Tension	15	172.050	3.697	-0.108
			Max. Compression	2	-194.378	0.904	-0.008
			Max. Mx	2	-144.298	5.958	0.237
			Max. My	12	-10.892	-0.029	-2.673
			Max. Vy	2	-11.452	0.904	-0.008
			Max. Vx	4	5.059	0.014	-0.407
		Diagonal	Max Tension	20	8.999	0.000	0.000
			Max. Compression	4	-8.614	0.000	0.000
			Max. Mx	30	1.439	0.052	0.004
			Max. My	10	-8.385	-0.008	-0.015
			Max. Vy	34	0.045	0.052	-0.005
			Max. Vx	10	0.003	0.000	0.000
T6	160 - 140	Leg	Max Tension	15	214.621	4.022	-0.126
			Max. Compression	2	-241.830	0.935	-0.026
			Max. Mx	2	-194.398	6.606	-0.190
			Max. My	4	-15.413	0.133	-2.941
			Max. Vy	2	-12.324	0.935	-0.026
			Max. Vx	4	5.125	0.014	-0.452
		Diagonal	Max Tension	20	8.926	0.000	0.000
			Max. Compression	20	-9.281	0.000	0.000
			Max. Mx	30	1.455	0.072	0.006
			Max. My	18	-9.086	-0.013	0.018
			Max. Vy	34	0.056	0.072	-0.007
			Max. Vx	18	-0.003	0.000	0.000
T7	140 - 120	Leg	Max Tension	15	254.239	4.264	-0.146
			Max. Compression	2	-286.687	1.083	-0.044
			Max. Mx	2	-241.852	7.074	-0.243
			Max. My	4	-18.437	0.123	-3.018
			Max. Vy	2	-13.155	1.083	-0.044
			Max. Vx	4	5.341	0.015	-0.655
		Diagonal	Max Tension	2	9.201	0.000	0.000
			Max. Compression	2	-9.333	0.000	0.000
			Max. Mx	28	0.581	0.088	0.008
			Max. My	6	-8.264	0.014	-0.014
			Max. Vy	28	0.062	0.088	0.008
			Max. Vx	28	-0.002	0.000	0.000
T8	120 - 100	Leg	Max Tension	15	291.918	5.351	-0.210
			Max. Compression	2	-330.220	0.155	0.006
			Max. Mx	2	-286.711	7.636	-0.296
			Max. My	4	-21.243	0.120	-3.329
			Max. Vy	2	-14.170	0.155	0.006
			Max. Vx	4	5.639	0.002	-0.143
		Diagonal	Max Tension	2	10.030	0.000	0.000
			Max. Compression	2	-9.908	0.000	0.000
			Max. Mx	28	0.566	0.114	0.010
			Max. My	4	-6.609	0.042	-0.014
			Max. Vy	28	0.073	0.114	0.010
			Max. Vx	28	-0.003	0.000	0.000
T9	100 - 80	Leg	Max Tension	15	328.106	4.921	-0.191

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Compression	2	-372.391	1.260	-0.058
			Max. Mx	2	-330.242	7.242	-0.283
			Max. My	4	-24.113	0.101	-2.967
			Max. Vy	2	-15.413	1.260	-0.058
			Max. Vx	4	5.992	0.019	-0.762
		Diagonal	Max Tension	2	10.481	0.000	0.000
			Max. Compression	2	-10.315	0.000	0.000
			Max. Mx	28	0.558	0.142	0.013
			Max. My	4	-6.785	0.046	-0.017
			Max. Vy	28	0.084	0.142	0.013
			Max. Vx	28	-0.003	0.000	0.000
T10	80 - 60	Leg	Max Tension	15	363.333	5.434	-0.200
			Max. Compression	2	-414.469	0.931	-0.082
			Max. Mx	2	-372.419	8.936	-0.378
			Max. My	4	-26.785	0.117	-3.761
			Max. Vy	2	-16.066	0.931	-0.082
			Max. Vx	4	6.703	-0.008	-1.210
		Diagonal	Max Tension	2	11.373	0.000	0.000
			Max. Compression	2	-11.337	0.000	0.000
			Max. Mx	31	1.049	0.180	-0.016
			Max. My	14	-10.476	0.056	0.021
			Max. Vy	28	0.097	0.180	-0.017
			Max. Vx	28	-0.004	0.000	0.000
T11	60 - 40	Leg	Max Tension	15	397.502	7.039	-0.275
			Max. Compression	2	-455.787	-0.616	-0.014
			Max. Mx	2	-455.759	-9.034	0.351
			Max. My	4	-29.736	0.122	-4.564
			Max. Vy	2	-16.822	-0.616	-0.014
			Max. Vx	4	6.724	-0.028	-0.490
		Diagonal	Max Tension	3	12.656	0.000	0.000
			Max. Compression	2	-13.283	0.000	0.000
			Max. Mx	30	1.679	0.271	0.000
			Max. My	27	0.078	0.000	-0.007
			Max. Vy	30	-0.100	0.000	0.000
			Max. Vx	27	-0.002	0.000	0.000
		Horizontal	Max Tension	2	2.027	-0.059	0.000
			Max. Compression	15	-1.890	-0.043	0.002
			Max. Mx	29	0.188	-0.172	0.003
			Max. My	14	0.644	-0.049	0.005
			Max. Vy	29	0.092	-0.172	0.003
			Max. Vx	27	-0.002	-0.172	0.004
		Inner Bracing	Max Tension	5	0.000	0.000	0.000
			Max. Compression	33	-0.010	0.000	0.000
			Max. Mx	26	-0.009	-0.117	0.000
			Max. My	2	-0.005	0.000	-0.000
			Max. Vy	26	0.049	0.000	0.000
			Max. Vx	2	0.000	0.000	0.000
T12	40 - 20	Leg	Max Tension	15	429.870	6.686	-0.264
			Max. Compression	2	-495.378	0.229	-0.045
			Max. Mx	2	-495.350	-8.643	0.340
			Max. My	4	-32.786	0.085	-3.856
			Max. Vy	2	-17.729	0.229	-0.045
			Max. Vx	4	6.730	0.085	-3.856
		Diagonal	Max Tension	3	12.612	0.000	0.000
			Max. Compression	3	-13.120	0.000	0.000
			Max. Mx	32	1.895	0.299	0.000
			Max. My	27	0.280	0.000	-0.007
			Max. Vy	32	0.104	0.000	0.000
			Max. Vx	27	-0.002	0.000	0.000
		Horizontal	Max Tension	2	1.936	-0.079	0.001
			Max. Compression	15	-1.846	-0.057	0.002

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
			Max. Mx	27	-0.024	-0.211	0.004
			Max. My	14	0.618	-0.066	0.006
			Max. Vy	29	0.105	-0.208	0.004
			Max. Vx	27	-0.002	-0.208	0.004
		Inner Bracing	Max Tension	1	0.000	0.000	0.000
			Max. Compression	33	-0.010	0.000	0.000
			Max. Mx	26	-0.009	-0.129	0.000
			Max. My	2	-0.006	0.000	-0.000
			Max. Vy	26	0.050	0.000	0.000
			Max. Vx	2	0.000	0.000	0.000
T13	20 - 0	Leg	Max Tension	15	460.488	7.110	-0.296
			Max. Compression	2	-533.249	0.000	0.000
			Max. Mx	2	-533.217	-9.116	0.380
			Max. My	4	-35.838	0.080	-4.094
			Max. Vy	2	-18.216	0.000	0.000
			Max. Vx	4	6.694	0.080	-4.094
		Diagonal	Max Tension	25	12.459	0.000	0.000
			Max. Compression	3	-13.169	0.000	0.000
			Max. Mx	27	2.344	0.313	0.000
			Max. My	27	0.862	0.000	-0.007
			Max. Vy	27	-0.103	0.000	0.000
			Max. Vx	27	0.002	0.000	0.000
		Horizontal	Max Tension	2	2.083	-0.120	0.002
			Max. Compression	15	-1.936	-0.086	0.003
			Max. Mx	27	-0.096	-0.259	0.006
			Max. My	37	0.106	-0.257	0.007
			Max. Vy	29	-0.115	-0.238	0.004
			Max. Vx	37	0.003	-0.257	0.007
		Inner Bracing	Max Tension	1	0.000	0.000	0.000
			Max. Compression	37	-0.010	0.000	0.000
			Max. Mx	31	-0.009	-0.133	0.000
			Max. My	14	-0.006	0.000	0.000
			Max. Vy	31	0.048	0.000	0.000
			Max. Vx	14	-0.000	0.000	0.000

Maximum Reactions

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
Leg C	Max. Vert	18	511.486	32.425	-18.240
	Max. H_x	18	511.486	32.425	-18.240
	Max. H_z	5	-401.281	-26.117	16.792
	Min. Vert	7	-442.765	-29.546	16.501
	Min. H_x	7	-442.765	-29.546	16.501
	Min. H_z	18	511.486	32.425	-18.240
Leg B	Max. Vert	10	513.792	-32.472	-18.729
	Max. H_x	23	-442.727	29.562	17.012
	Max. H_z	25	-398.838	25.648	17.691
	Min. Vert	23	-442.727	29.562	17.012
	Min. H_x	10	513.792	-32.472	-18.729
	Min. H_z	10	513.792	-32.472	-18.729
Leg A	Max. Vert	2	532.122	0.623	39.148
	Max. H_x	21	21.779	5.039	0.970
	Max. H_z	2	532.122	0.623	39.148
	Min. Vert	15	-459.305	-0.690	-35.613
	Min. H_x	9	23.370	-5.026	1.004

Location	Condition	Gov. Load Comb.	Vertical K	Horizontal, X K	Horizontal, Z K
	Min. H_z	15	-459.305	-0.690	-35.613

Tower Mast Reaction Summary

Load Combination	Vertical K	Shear$_x$ K	Shear$_z$ K	Overturning Moment, M_x kip-ft	Overturning Moment, M_z kip-ft	Torque kip-ft
Dead Only	73.047	-0.000	-0.000	12.203	-8.965	0.000
1.2 Dead+1.0 Wind 0 deg - No Ice	87.657	0.026	-65.633	-9799.356	-38.123	25.222
0.9 Dead+1.0 Wind 0 deg - No Ice	65.743	0.026	-65.635	-9777.133	-35.260	25.200
1.2 Dead+1.0 Wind 30 deg - No Ice	87.657	31.778	-53.255	-8084.029	-4880.652	42.964
0.9 Dead+1.0 Wind 30 deg - No Ice	65.743	31.779	-53.256	-8066.129	-4864.904	42.918
1.2 Dead+1.0 Wind 60 deg - No Ice	87.657	51.221	-28.787	-4422.727	-7930.619	16.330
0.9 Dead+1.0 Wind 60 deg - No Ice	65.743	51.222	-28.788	-4414.516	-7906.570	16.273
1.2 Dead+1.0 Wind 90 deg - No Ice	87.657	59.032	-0.147	-24.720	-9089.213	-10.563
0.9 Dead+1.0 Wind 90 deg - No Ice	65.743	59.033	-0.147	-28.367	-9062.087	-10.619
1.2 Dead+1.0 Wind 120 deg - No Ice	87.657	54.724	30.309	4542.377	-8280.349	-1.858
0.9 Dead+1.0 Wind 120 deg - No Ice	65.743	54.724	30.310	4526.580	-8255.611	-1.897
1.2 Dead+1.0 Wind 150 deg - No Ice	87.657	31.164	53.243	8077.397	-4733.940	5.000
0.9 Dead+1.0 Wind 150 deg - No Ice	65.743	31.164	53.244	8052.139	-4718.624	4.991
1.2 Dead+1.0 Wind 180 deg - No Ice	87.657	-0.016	61.860	9405.634	6.046	-25.270
0.9 Dead+1.0 Wind 180 deg - No Ice	65.743	-0.016	61.861	9376.823	8.689	-25.249
1.2 Dead+1.0 Wind 210 deg - No Ice	87.657	-31.119	53.131	8086.318	4738.758	-41.959
0.9 Dead+1.0 Wind 210 deg - No Ice	65.743	-31.120	53.132	8060.989	4728.752	-41.914
1.2 Dead+1.0 Wind 240 deg - No Ice	87.657	-54.233	30.056	4552.869	8222.407	-13.995
0.9 Dead+1.0 Wind 240 deg - No Ice	65.743	-54.234	30.056	4536.944	8203.160	-13.937
1.2 Dead+1.0 Wind 270 deg - No Ice	87.657	-59.022	-0.117	6.434	9056.867	10.455
0.9 Dead+1.0 Wind 270 deg - No Ice	65.743	-59.023	-0.117	2.641	9035.249	10.510
1.2 Dead+1.0 Wind 300 deg - No Ice	87.657	-51.696	-29.043	-4414.688	7928.829	-0.423
0.9 Dead+1.0 Wind 300 deg - No Ice	65.743	-51.697	-29.044	-4406.596	7910.281	-0.386
1.2 Dead+1.0 Wind 330 deg - No Ice	87.657	-31.823	-53.356	-8062.982	4832.150	-5.894
0.9 Dead+1.0 Wind 330 deg - No Ice	65.743	-31.823	-53.357	-8045.213	4822.009	-5.884
1.2 Dead+1.0 Ice+1.0 Temp	216.554	-0.002	-0.003	18.557	-45.393	-0.001

Load Combination	Vertical	$Shear_x$	$Shear_z$	Overturning Moment, M_x	Overturning Moment, M_z	Torque
	K	K	K	kip-ft	kip-ft	kip-ft
1.2 Dead+1.0 Wind 0 deg+1.0 Ice+1.0 Temp	216.554	0.007	-8.659	-1324.128	-52.272	2.205
1.2 Dead+1.0 Wind 30 deg+1.0 Ice+1.0 Temp	216.554	4.356	-7.190	-1109.421	-737.444	3.875
1.2 Dead+1.0 Wind 60 deg+1.0 Ice+1.0 Temp	216.554	7.169	-3.984	-611.547	-1186.368	1.348
1.2 Dead+1.0 Wind 90 deg+1.0 Ice+1.0 Temp	216.554	8.225	-0.030	11.275	-1349.877	-1.201
1.2 Dead+1.0 Wind 120 deg+1.0 Ice+1.0 Temp	216.554	7.435	4.036	641.865	-1211.245	-0.806
1.2 Dead+1.0 Wind 150 deg+1.0 Ice+1.0 Temp	216.554	4.264	7.240	1148.708	-712.058	0.126
1.2 Dead+1.0 Wind 180 deg+1.0 Ice+1.0 Temp	216.554	-0.004	8.382	1330.436	-42.786	-2.212
1.2 Dead+1.0 Wind 210 deg+1.0 Ice+1.0 Temp	216.554	-4.225	7.164	1142.708	620.341	-3.675
1.2 Dead+1.0 Wind 240 deg+1.0 Ice+1.0 Temp	216.554	-7.358	3.999	644.300	1110.920	-0.885
1.2 Dead+1.0 Wind 270 deg+1.0 Ice+1.0 Temp	216.554	-8.223	-0.022	17.970	1254.722	1.178
1.2 Dead+1.0 Wind 300 deg+1.0 Ice+1.0 Temp	216.554	-7.243	-4.022	-609.618	1097.458	0.352
1.2 Dead+1.0 Wind 330 deg+1.0 Ice+1.0 Temp	216.554	-4.395	-7.262	-1112.787	643.409	-0.305
Dead+Wind 0 deg - Service	73.047	0.008	-21.029	-3126.747	-17.719	8.076
Dead+Wind 30 deg - Service	73.047	10.182	-17.063	-2578.065	-1566.581	13.778
Dead+Wind 60 deg - Service	73.047	16.411	-9.224	-1406.978	-2542.097	5.220
Dead+Wind 90 deg - Service	73.047	18.914	-0.047	-0.288	-2912.683	-3.413
Dead+Wind 120 deg - Service	73.047	17.534	9.711	1460.489	-2654.027	-0.605
Dead+Wind 150 deg - Service	73.047	9.985	17.059	2591.145	-1519.716	1.619
Dead+Wind 180 deg - Service	73.047	-0.005	19.820	3015.989	-3.613	-8.094
Dead+Wind 210 deg - Service	73.047	-9.971	17.023	2593.977	1510.150	-13.456
Dead+Wind 240 deg - Service	73.047	-17.376	9.630	1463.814	2624.372	-4.471
Dead+Wind 270 deg - Service	73.047	-18.911	-0.038	9.664	2891.221	3.379
Dead+Wind 300 deg - Service	73.047	-16.563	-9.305	-1404.414	2530.431	-0.127
Dead+Wind 330 deg - Service	73.047	-10.196	-17.095	-2571.329	1539.990	-1.908

Solution Summary

Load Comb.	Sum of Applied Forces PX	PY	PZ	Sum of Reactions PX	PY	PZ	% Error
	K	K	K	K	K	K	
1	0.000	-73.047	0.000	0.000	73.047	0.000	0.000%
2	0.026	-87.657	-65.638	-0.026	87.657	65.633	0.004%
3	0.026	-65.743	-65.638	-0.026	65.743	65.635	0.003%
4	31.780	-87.657	-53.258	-31.778	87.657	53.255	0.004%
5	31.780	-65.743	-53.258	-31.779	65.743	53.256	0.003%
6	51.224	-87.657	-28.789	-51.221	87.657	28.787	0.003%
7	51.224	-65.743	-28.789	-51.222	65.743	28.788	0.003%
8	59.035	-87.657	-0.147	-59.032	87.657	0.147	0.003%
9	59.035	-65.743	-0.147	-59.033	65.743	0.147	0.003%
10	54.727	-87.657	30.311	-54.724	87.657	-30.309	0.004%
11	54.727	-65.743	30.311	-54.724	65.743	-30.310	0.003%
12	31.166	-87.657	53.247	-31.164	87.657	-53.243	0.004%
13	31.166	-65.743	53.247	-31.164	65.743	-53.244	0.003%
14	-0.016	-87.657	61.864	0.016	87.657	-61.860	0.003%
15	-0.016	-65.743	61.864	0.016	65.743	-61.861	0.003%
16	-31.121	-87.657	53.134	31.119	87.657	-53.131	0.004%

Load Comb.	Sum of Applied Forces PX K	PY K	PZ K	Sum of Reactions PX K	PY K	PZ K	% Error
17	-31.121	-65.743	53.134	31.120	65.743	-53.132	0.003%
18	-54.237	-87.657	30.058	54.233	87.657	-30.056	0.004%
19	-54.237	-65.743	30.058	54.234	65.743	-30.056	0.003%
20	-59.025	-87.657	-0.117	59.022	87.657	0.117	0.003%
21	-59.025	-65.743	-0.117	59.023	65.743	0.117	0.003%
22	-51.699	-87.657	-29.045	51.696	87.657	29.043	0.003%
23	-51.699	-65.743	-29.045	51.697	65.743	29.044	0.003%
24	-31.824	-87.657	-53.359	31.823	87.657	53.356	0.003%
25	-31.824	-65.743	-53.359	31.823	65.743	53.357	0.003%
26	0.000	-216.554	0.000	0.002	216.554	0.003	0.002%
27	0.007	-216.554	-8.660	-0.007	216.554	8.659	0.000%
28	4.356	-216.554	-7.190	-4.356	216.554	7.190	0.000%
29	7.170	-216.554	-3.984	-7.169	216.554	3.984	0.000%
30	8.226	-216.554	-0.030	-8.225	216.554	0.030	0.000%
31	7.436	-216.554	4.037	-7.435	216.554	-4.036	0.000%
32	4.264	-216.554	7.241	-4.264	216.554	-7.240	0.000%
33	-0.004	-216.554	8.383	0.004	216.554	-8.382	0.000%
34	-4.226	-216.554	7.165	4.225	216.554	-7.164	0.000%
35	-7.359	-216.554	4.000	7.358	216.554	-3.999	0.000%
36	-8.223	-216.554	-0.022	8.223	216.554	0.022	0.000%
37	-7.243	-216.554	-4.022	7.243	216.554	4.022	0.000%
38	-4.395	-216.554	-7.263	4.395	216.554	7.262	0.000%
39	0.008	-73.047	-21.030	-0.008	73.047	21.029	0.001%
40	10.182	-73.047	-17.064	-10.182	73.047	17.063	0.001%
41	16.412	-73.047	-9.224	-16.411	73.047	9.224	0.001%
42	18.915	-73.047	-0.047	-18.914	73.047	0.047	0.001%
43	17.534	-73.047	9.712	-17.534	73.047	-9.711	0.001%
44	9.985	-73.047	17.060	-9.985	73.047	-17.059	0.001%
45	-0.005	-73.047	19.821	0.005	73.047	-19.820	0.001%
46	-9.971	-73.047	17.024	9.971	73.047	-17.023	0.001%
47	-17.377	-73.047	9.630	17.376	73.047	-9.630	0.001%
48	-18.912	-73.047	-0.038	18.911	73.047	0.038	0.001%
49	-16.564	-73.047	-9.306	16.563	73.047	9.305	0.001%
50	-10.196	-73.047	-17.096	10.196	73.047	17.095	0.001%

Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	6	0.00000001	0.00001734
2	Yes	13	0.00005315	0.00011988
3	Yes	13	0.00003957	0.00008987
4	Yes	13	0.00005036	0.00011408
5	Yes	13	0.00003695	0.00008428
6	Yes	13	0.00004782	0.00010878
7	Yes	13	0.00003454	0.00007913
8	Yes	13	0.00005048	0.00011440
9	Yes	13	0.00003704	0.00008455
10	Yes	13	0.00005307	0.00011978
11	Yes	13	0.00003947	0.00008973
12	Yes	13	0.00005049	0.00011432
13	Yes	13	0.00003707	0.00008453
14	Yes	13	0.00004769	0.00010837
15	Yes	13	0.00003443	0.00007880
16	Yes	13	0.00005057	0.00011458
17	Yes	13	0.00003713	0.00008473

18	Yes	13	0.00005317	0.00012014
19	Yes	13	0.00003955	0.00009000
20	Yes	13	0.00005052	0.00011452
21	Yes	13	0.00003708	0.00008465
22	Yes	13	0.00004775	0.00010855
23	Yes	13	0.00003449	0.00007896
24	Yes	13	0.00005032	0.00011392
25	Yes	13	0.00003692	0.00008418
26	Yes	6	0.00000001	0.00013044
27	Yes	14	0.00000001	0.00008290
28	Yes	14	0.00000001	0.00008351
29	Yes	14	0.00000001	0.00008393
30	Yes	14	0.00000001	0.00008507
31	Yes	14	0.00000001	0.00008607
32	Yes	14	0.00000001	0.00008552
33	Yes	14	0.00000001	0.00008487
34	Yes	14	0.00000001	0.00008415
35	Yes	14	0.00000001	0.00008343
36	Yes	14	0.00000001	0.00008155
37	Yes	14	0.00000001	0.00008052
38	Yes	14	0.00000001	0.00008125
39	Yes	13	0.00000001	0.00009241
40	Yes	13	0.00000001	0.00009085
41	Yes	13	0.00000001	0.00008939
42	Yes	13	0.00000001	0.00009098
43	Yes	13	0.00000001	0.00009247
44	Yes	13	0.00000001	0.00009094
45	Yes	13	0.00000001	0.00008929
46	Yes	13	0.00000001	0.00009117
47	Yes	13	0.00000001	0.00009277
48	Yes	13	0.00000001	0.00009106
49	Yes	13	0.00000001	0.00008922
50	Yes	13	0.00000001	0.00009069

Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	245 - 235	12.610	39	0.440	0.091
T2	235 - 220	11.638	39	0.442	0.089
T3	220 - 200	10.147	39	0.424	0.086
T4	200 - 180	8.322	39	0.385	0.082
T5	180 - 160	6.687	39	0.342	0.077
T6	160 - 140	5.260	39	0.295	0.069
T7	140 - 120	4.021	39	0.250	0.056
T8	120 - 100	2.958	39	0.209	0.043
T9	100 - 80	2.074	39	0.171	0.033
T10	80 - 60	1.337	39	0.131	0.022
T11	60 - 40	0.769	39	0.096	0.014
T12	40 - 20	0.378	39	0.063	0.009
T13	20 - 0	0.123	39	0.030	0.004

Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
245.000	Lightning Rod 1"x10'	39	12.610	0.440	0.091	51130
240.000	200 sq ft EPA bare (4000#s), 225 sq ft EPA with 1/2" ice (6000#s)	39	12.127	0.442	0.090	51130
225.000	150 sq ft EPA bare (4000#s), 175 sq ft EPA with 1/2" Ice (6000#s)	39	10.639	0.433	0.087	38684
215.000	125 sq ft EPA bare (4000#s), 150 sq ft EPA with 1/2" Ice (6000#s)	39	9.669	0.415	0.085	19398
205.000	105 sq ft EPA bare (4000#s), 130 sq ft EPA with 1/2" Ice (6000#s)	39	8.759	0.396	0.083	25616
190.000	8'HP MW Dish (60sq ft EPA bare (1000#s), 85 sq ft EPA with 1/2" Ice (1000#s)	39	7.480	0.364	0.080	24506
170.000	8'HP MW Dish (60sq ft EPA bare (1000#s), 85 sq ft EPA with 1/2" Ice (1000#s)	39	5.948	0.319	0.074	22874

Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt °	Twist °
T1	245 - 235	39.681	2	1.388	0.284
T2	235 - 220	36.611	2	1.396	0.278
T3	220 - 200	31.906	2	1.337	0.269
T4	200 - 180	26.155	2	1.213	0.255
T5	180 - 160	21.003	2	1.076	0.241
T6	160 - 140	16.514	2	0.929	0.215
T7	140 - 120	12.616	2	0.787	0.174
T8	120 - 100	9.278	2	0.656	0.134
T9	100 - 80	6.505	2	0.536	0.103
T10	80 - 60	4.192	2	0.412	0.069
T11	60 - 40	2.411	2	0.300	0.042
T12	40 - 20	1.183	2	0.197	0.028
T13	20 - 0	0.386	2	0.093	0.014

Critical Deflections and Radius of Curvature - Design Wind

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
245.000	Lightning Rod 1"x10'	2	39.681	1.388	0.284	16209
240.000	200 sq ft EPA bare (4000#s), 225 sq ft EPA with 1/2" ice (6000#s)	2	38.155	1.395	0.281	16209
225.000	150 sq ft EPA bare (4000#s), 175 sq ft EPA with 1/2" Ice (6000#s)	2	33.460	1.363	0.272	12302
215.000	125 sq ft EPA bare (4000#s), 150 sq ft EPA with 1/2" Ice (6000#s)	2	30.401	1.308	0.266	6139
205.000	105 sq ft EPA bare (4000#s), 130 sq ft EPA with 1/2" Ice (6000#s)	2	27.531	1.246	0.258	8106
190.000	8'HP MW Dish (60sq ft EPA bare (1000#s), 85 sq ft EPA with 1/2" Ice (1000#s)	2	23.502	1.146	0.249	7839

Elevation ft	Appurtenance	Gov. Load Comb.	Deflection in	Tilt °	Twist °	Radius of Curvature ft
170.000	8'HP MW Dish (60sq ft EPA bare (1000#s), 85 sq ft EPA with 1/2" Ice (1000#s)	2	18.677	1.003	0.230	7377

Bolt Design Data

Section No	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T1	245	Diagonal	A325X	0.625	1	3.509	9.598	0.366 ✔	1	Member Block Shear
		Top Girt	A325X	0.625	1	1.001	9.598	0.104 ✔	1	Member Block Shear
T2	235	Leg	A325N	0.750	6	1.241	30.101	0.041 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	5.135	9.598	0.535 ✔	1	Member Block Shear
T3	220	Leg	A325N	0.750	6	5.116	30.101	0.170 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	7.674	9.598	0.800 ✔	1	Member Block Shear
T4	200	Leg	A325N	0.750	6	12.723	30.101	0.423 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	8.309	10.740	0.774 ✔	1	Member Block Shear
T5	180	Leg	A325N	1.000	6	21.035	54.517	0.386 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	8.999	14.320	0.628 ✔	1	Member Block Shear
T6	160	Leg	A325N	1.000	6	28.673	54.517	0.526 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	8.926	13.025	0.685 ✔	1	Member Block Shear
T7	140	Leg	A325N	1.000	6	35.768	54.517	0.656 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	9.201	13.025	0.706 ✔	1	Member Block Shear
T8	120	Leg	A325N	1.250	6	42.371	87.220	0.486 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	10.031	17.257	0.581 ✔	1	Bolt Shear
T9	100	Leg	A325N	1.250	6	48.650	87.220	0.558 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	10.481	14.168	0.740 ✔	1	Member Block Shear
T10	80	Leg	A325N	1.250	6	54.681	87.220	0.627 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	11.373	17.257	0.659 ✔	1	Bolt Shear
T11	60	Leg	A325N	1.250	6	60.552	87.220	0.694 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	12.656	26.051	0.486 ✔	1	Member Block Shear
		Horizontal	A325X	0.625	1	7.900	19.195	0.412 ✔	1	Member Block Shear
T12	40	Leg	A325N	1.250	6	66.247	87.220	0.760 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	12.612	26.051	0.484 ✔	1	Member Block Shear
		Horizontal	A325X	0.625	1	8.586	21.480	0.400 ✔	1	Member Block Shear

Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size in	Number Of Bolts	Maximum Load per Bolt K	Allowable Load per Bolt K	Ratio Load / Allowable	Allowable Ratio	Criteria
T13	20	Leg	A325N	1.500	6	71.642	126.472	0.566 ✔	1	Bolt Tension
		Diagonal	A325X	0.625	1	12.459	26.051	0.478 ✔	1	Member Block Shear
		Horizontal	A325X	0.625	1	9.243	28.641	0.323 ✔	1	Member Block Shear

Compression Checks

Leg Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $P_u / \phi P_n$
T1	245 - 235	1 3/4	10.009	4.504	123.5 K=1.00	2.405	-5.963	35.601	0.167 [1] ✔
T2	235 - 220	1 3/4	15.014	4.671	128.1 K=1.00	2.405	-31.892	33.103	0.963 [1] ✔
T3	220 - 200	2 1/4	20.019	4.754	101.4 K=1.00	3.976	-83.810	84.331	0.994 [1] ✔
T4	200 - 180	2 3/4	20.019	4.754	83.0 K=1.00	5.940	-137.761	161.540	0.853 [1] ✔
T5	180 - 160	3	20.019	4.754	76.1 K=1.00	7.069	-188.027	208.347	0.902 [1] ✔
T6	160 - 140	3 1/4	20.019	4.754	70.2 K=1.00	8.296	-235.702	260.312	0.905 [1] ✔
T7	140 - 120	3 1/2	20.019	4.754	65.2 K=1.00	9.621	-280.709	317.273	0.885 [1] ✔
T8	120 - 100	3 3/4	20.019	4.754	60.9 K=1.00	11.045	-324.273	379.106	0.855 [1] ✔
T9	100 - 80	3 3/4	20.019	4.754	60.9 K=1.00	11.045	-366.546	379.106	0.967 [1] ✔
T10	80 - 60	4	20.019	4.754	57.1 K=1.00	12.566	-408.703	445.717	0.917 [1] ✔
T11	60 - 40	4 1/4	20.019	4.754	53.7 K=1.00	14.186	-444.892	517.034	0.860 [1] ✔
T12	40 - 20	4 1/4	20.019	4.754	53.7 K=1.00	14.186	-484.756	517.034	0.938 [1] ✔
T13	20 - 0	4 1/2	20.019	4.754	50.7 K=1.00	15.904	-522.850	593.004	0.882 [1] ✔

[1] $P_u / \phi P_n$ controls

Diagonal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	245 - 235	L1 3/4x1 3/4x3/16	6.485	3.258	113.9 K=1.00	0.621	-3.456	13.715	0.252 [1] ✔
T2	235 - 220	L1 3/4x1 3/4x3/16	7.435	3.736	130.5 K=1.00	0.621	-4.698	10.431	0.450 [1] ✔
T3	220 - 200	L1 3/4x1 3/4x3/16	8.697	4.343	151.7 K=1.00	0.621	-6.989	7.721	0.905 [1] ✔
T4	200 - 180	L2x2x3/16	9.987	4.964	151.2 K=1.00	0.715	-7.872	8.951	0.879 [1] ✔
T5	180 - 160	L2x2x1/4	11.329	5.625	172.6 K=1.00	0.938	-8.517	9.009	0.945 [1] ✔
T6	160 - 140	L2 1/2x2 1/2x3/16	12.706	6.303	152.8 K=1.00	0.902	-8.556	11.057	0.774 [1] ✔
T7	140 - 120	L2 1/2x2 1/2x3/16	14.108	6.994	169.6 K=1.00	0.902	-8.810	8.981	0.981 [1] ✔
T8	120 - 100	L2 1/2x2 1/2x1/4	15.529	7.694	188.0 K=1.00	1.190	-9.498	9.633	0.986 [1] ✔
T9	100 - 80	L3x3x3/16	16.963	8.412	169.4 K=1.00	1.090	-10.039	10.877	0.923 [1] ✔
T10	80 - 60	L3x3x1/4	18.408	9.124	184.9 K=1.00	1.440	-10.765	12.050	0.893 [1] ✔
T11	60 - 40	2L2 1/2x2 1/2x3/16x3/8	10.829	10.632	168.2 K=1.00	1.800	-12.326	17.635	0.699 [1] ✔
T12	40 - 20	2L 'a' > 60.882 in - 264 2L2 1/2x2 1/2x3/16x3/8	11.508	11.313	179.0 K=1.00	1.800	-12.540	15.641	0.802 [1] ✔
T13	20 - 0	2L 'a' > 64.783 in - 303 2L2 1/2x2 1/2x3/16x3/8 2L 'a' > 68.665 in - 342	12.195	11.991	189.7 K=1.00	1.800	-12.973	13.970	0.929 [1] ✔

[1] P_u / ϕP_n controls

Horizontal Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T11	60 - 40	2L1 3/4x1 3/4x3/16x3/8	19.106	9.376	209.5 K=1.00	1.242	-7.900	8.097	0.976 [1] ✔
T12	40 - 20	2L 'a' > 53.975 in - 262 2L2x2x3/16x3/8	20.606	10.126	198.1 K=1.00	1.430	-8.586	10.289	0.835 [1] ✔
T13	20 - 0	2L 'a' > 58.196 in - 301 2L2x2x1/4x3/8 2L 'a' > 62.785 in - 340	22.106	10.866	214.1 K=1.00	1.880	-9.243	11.739	0.787 [1] ✔

[1] P_u / ϕP_n controls

Top Girt Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	245 - 235	L1 3/4x1 3/4x3/16	4.163	4.017	140.3 K=1.00	0.621	-1.194	9.026	0.132 [1] ✔

[1] P_u / ϕP_n controls

Inner Bracing Design Data (Compression)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T11	60 - 40	L1 3/4x1 3/4x3/16	9.553	9.553	333.8 K=1.00	0.621	-0.010	1.596	0.006 [1] ✔
		KL/R > 250 (C) - 269							
T12	40 - 20	L1 3/4x1 3/4x3/16	10.303	10.303	360.0 K=1.00	0.621	-0.010	1.372	0.007 [1] ✔
		KL/R > 250 (C) - 308							
T13	20 - 0	L1 3/4x1 3/4x3/16	11.053	11.053	386.2 K=1.00	0.621	-0.010	1.192	0.008 [1] ✔
		KL/R > 250 (C) - 346							

[1] P_u / ϕP_n controls

Tension Checks

Leg Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	245 - 235	1 3/4	10.009	0.500	13.7	2.405	7.451	108.238	0.069 [1] ✔
T2	235 - 220	1 3/4	15.014	0.500	13.7	2.405	30.703	108.238	0.284 [1] ✔
T3	220 - 200	2 1/4	20.019	0.500	10.7	3.976	76.350	178.924	0.427 [1] ✔
T4	200 - 180	2 3/4	20.019	0.500	8.7	5.940	126.222	267.281	0.472 [1] ✔
T5	180 - 160	3	20.019	0.500	8.0	7.069	172.050	318.086	0.541 [1] ✔
T6	160 - 140	3 1/4	20.019	0.500	7.4	8.296	214.621	373.310	0.575 [1]

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T7	140 - 120	3 1/2	20.019	0.500	6.9	9.621	254.239	432.951	0.587 [1]
T8	120 - 100	3 3/4	20.019	0.500	6.4	11.045	291.918	497.010	0.587 [1]
T9	100 - 80	3 3/4	20.019	0.500	6.4	11.045	328.106	497.010	0.660 [1]
T10	80 - 60	4	20.019	0.500	6.0	12.566	363.333	565.487	0.643 [1]
T11	60 - 40	4 1/4	20.019	0.500	5.7	14.186	397.502	638.381	0.623 [1]
T12	40 - 20	4 1/4	20.019	0.500	5.7	14.186	429.871	638.381	0.673 [1]
T13	20 - 0	4 1/2	20.019	0.500	5.3	15.904	460.488	715.694	0.643 [1]

[1] P_u / ϕP_n controls

Diagonal Design Data (Tension)

Section No.	Elevation ft	Size	L ft	L_u ft	Kl/r	A in^2	P_u K	ϕP_n K	Ratio $\frac{P_u}{\phi P_n}$
T1	245 - 235	L1 3/4x1 3/4x3/16	6.485	3.258	72.8	0.360	3.509	17.567	0.200 [1]
T2	235 - 220	L1 3/4x1 3/4x3/16	7.435	3.736	83.5	0.360	5.135	17.567	0.292 [1]
T3	220 - 200	L1 3/4x1 3/4x3/16	8.697	4.343	97.1	0.360	7.674	17.567	0.437 [1]
T4	200 - 180	L2x2x3/16	9.987	4.964	96.6	0.431	8.309	21.001	0.396 [1]
T5	180 - 160	L2x2x1/4	11.329	5.625	110.8	0.563	8.999	27.440	0.328 [1]
T6	160 - 140	L2 1/2x2 1/2x3/16	12.706	6.303	97.2	0.571	8.926	27.838	0.321 [1]
T7	140 - 120	L2 1/2x2 1/2x3/16	14.108	6.994	107.9	0.571	9.201	27.838	0.331 [1]
T8	120 - 100	L2 1/2x2 1/2x1/4	15.529	7.694	120.1	0.752	10.031	36.654	0.274 [1]
T9	100 - 80	L3x3x3/16	16.963	8.412	107.5	0.712	10.481	34.712	0.302 [1]
T10	80 - 60	L3x3x1/4	18.408	9.124	117.7	0.939	11.373	45.794	0.248 [1]
T11	60 - 40	2L2 1/2x2 1/2x3/16x3/8	10.829	10.632	164.0	1.139	12.656	55.529	0.228 [1]
T12	40 - 20	2L 'a' > 60.882 in - 263 2L2 1/2x2 1/2x3/16x3/8	11.508	11.313	174.5	1.139	12.612	55.529	0.227 [1]
T13	20 - 0	2L 'a' > 64.783 in - 302 2L2 1/2x2 1/2x3/16x3/8	12.195	11.991	185.0	1.139	12.459	55.529	0.224 [1]

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
		2L 'a' > 68.665 in - 341							✔

[1] P_u / ϕP_n controls

Horizontal Design Data (Tension)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T11	60 - 40	2L1 3/4x1 3/4x3/16x3/8	18.394	9.020	201.6	0.721	7.900	35.134	0.225 [1] ✔
T12	40 - 20	2L 'a' > 51.925 in - 280 2L2x2x3/16x3/8	19.894	9.770	190.0	0.862	8.586	42.001	0.204 [1] ✔
T13	20 - 0	2L 'a' > 56.149 in - 319 2L2x2x1/4x3/8	22.106	10.866	214.1	1.129	9.243	55.027	0.168 [1] ✔
		2L 'a' > 62.785 in - 340							

[1] P_u / ϕP_n controls

Top Girt Design Data (Tension)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T1	245 - 235	L1 3/4x1 3/4x3/16	4.163	4.017	89.8	0.360	1.001	17.567	0.057 [1] ✔

[1] P_u / ϕP_n controls

Inner Bracing Design Data (Tension)

Section No.	Elevation	Size	L	L_u	Kl/r	A	P_u	ϕP_n	Ratio $\frac{P_u}{\phi P_n}$
	ft		ft	ft		in^2	K	K	
T11	60 - 40	L1 3/4x1 3/4x3/16	9.553	9.553	213.5	0.621	0.000	27.949	0.000 [1] ✔

[1] P_u / ϕP_n controls

Section Capacity Table

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	ϕP_{allow} K	% Capacity	Pass Fail
T1	245 - 235	Leg	1 3/4	1	-5.963	35.601	16.7	Pass
T2	235 - 220	Leg	1 3/4	21	-31.892	33.103	96.3	Pass
T3	220 - 200	Leg	2 1/4	42	-83.810	84.331	99.4	Pass
T4	200 - 180	Leg	2 3/4	69	-137.761	161.540	85.3	Pass
T5	180 - 160	Leg	3	96	-188.027	208.347	90.2	Pass
T6	160 - 140	Leg	3 1/4	123	-235.702	260.312	90.5	Pass
T7	140 - 120	Leg	3 1/2	150	-280.709	317.273	88.5	Pass
T8	120 - 100	Leg	3 3/4	177	-324.273	379.106	85.5	Pass
T9	100 - 80	Leg	3 3/4	204	-366.546	379.106	96.7	Pass
T10	80 - 60	Leg	4	231	-408.703	445.717	91.7	Pass
T11	60 - 40	Leg	4 1/4	258	-444.892	517.034	86.0	Pass
T12	40 - 20	Leg	4 1/4	297	-484.756	517.034	93.8	Pass
T13	20 - 0	Leg	4 1/2	336	-522.850	593.004	88.2	Pass
T1	245 - 235	Diagonal	L1 3/4x1 3/4x3/16	8	-3.456	13.715	25.2 36.6 (b)	Pass
T2	235 - 220	Diagonal	L1 3/4x1 3/4x3/16	22	-4.698	10.431	45.0 53.5 (b)	Pass
T3	220 - 200	Diagonal	L1 3/4x1 3/4x3/16	43	-6.989	7.721	90.5	Pass
T4	200 - 180	Diagonal	L2x2x3/16	71	-7.872	8.951	87.9	Pass
T5	180 - 160	Diagonal	L2x2x1/4	97	-8.517	9.009	94.5	Pass
T6	160 - 140	Diagonal	L2 1/2x2 1/2x3/16	124	-8.556	11.057	77.4	Pass
T7	140 - 120	Diagonal	L2 1/2x2 1/2x3/16	154	-8.810	8.981	98.1	Pass
T8	120 - 100	Diagonal	L2 1/2x2 1/2x1/4	181	-9.498	9.633	98.6	Pass
T9	100 - 80	Diagonal	L3x3x3/16	208	-10.039	10.877	92.3	Pass
T10	80 - 60	Diagonal	L3x3x1/4	235	-10.765	12.050	89.3	Pass
T11	60 - 40	Diagonal	2L2 1/2x2 1/2x3/16x3/8	264	-12.326	17.635	69.9	Pass
T12	40 - 20	Diagonal	2L2 1/2x2 1/2x3/16x3/8	303	-12.540	15.641	80.2	Pass
T13	20 - 0	Diagonal	2L2 1/2x2 1/2x3/16x3/8	342	-12.973	13.970	92.9	Pass
T11	60 - 40	Horizontal	2L1 3/4x1 3/4x3/16x3/8	262	-7.900	8.097	97.6	Pass
T12	40 - 20	Horizontal	2L2x2x3/16x3/8	301	-8.586	10.289	83.5	Pass
T13	20 - 0	Horizontal	2L2x2x1/4x3/8	340	-9.243	11.739	78.7	Pass
T1	245 - 235	Top Girt	L1 3/4x1 3/4x3/16	4	-1.194	9.026	13.2	Pass
T11	60 - 40	Inner Bracing	L1 3/4x1 3/4x3/16	269	-0.010	1.596	0.6	Pass
T12	40 - 20	Inner Bracing	L1 3/4x1 3/4x3/16	308	-0.010	1.372	0.7	Pass
T13	20 - 0	Inner Bracing	L1 3/4x1 3/4x3/16	346	-0.010	1.192	0.8	Pass
							Summary	
						Leg (T3)	99.4	Pass
						Diagonal (T8)	98.6	Pass
						Horizontal (T11)	97.6	Pass
						Top Girt (T1)	13.2	Pass
						Inner Bracing (T13)	0.8	Pass
						Bolt Checks	80.0	Pass
						RATING =	**99.4**	**Pass**

EXHIBIT D
COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST

KY Public Service Commission

Master Utility Search

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

Utility ID	Utility Name	Address/City/Contact	Utility Type	Status
				Active

Search

	Utility ID	Utility Name	Utility Type	Class	City	State
View	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	Henderson	NV
View	4108300	Air Voice Wireless, LLC d/b/a AirTalk Wireless	Cellular	B	Houston	TX
View	4113150	ALLDATA COMMUNICATIONS CORP.	Cellular	C	Brooklyn	NY
View	4111900	ALLNETAIR, INC.	Cellular	D	West Palm Beach	FL
View	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
View	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
View	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	OH
View	4108650	AmeriMex Communications Corp.	Cellular	A	Safety Harbor	FL
View	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
View	4105700	Assurance Wireless USA, L.P.	Cellular	A	Atlanta	GA
View	4113100	BARK TECHNOLOGIES, INC.	Cellular	C	Atlanta	GA

View	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
View	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
View	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
View	4107600	Boomerang Wireless, LLC	Cellular	B	Kennett Square	PA
View	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
View	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4106600	Cintex Wireless, LLC	Cellular	D	Houston	TX
View	4112900	Clear Mobile, LLC	Cellular	C	Edmond	OK
View	4111150	Comcast OTR1, LLC	Cellular	B	Phoeniexville	PA
View	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4112700	Cox Wireless, LLC	Cellular	C	Atlanta	GA
View	4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
View	4111500	CSC Wireless, LLC d/b/a Altice Wireless	Cellular	D	Long Island City	NY
View	4112000	DISH Wireless L.L.C.	Cellular	A	Englewood	CO
View	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
View	4111800	Earthlink, LLC	Cellular	B	Atlanta	GA
View	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
View	4113250	Elevate Platforms, LLC	Cellular	C	Nashville	TN
View	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
View	4110450	Excellus Communications, LLC	Cellular	D	Harrisburg	SD
View	4112400	Excess Telecom Inc.	Cellular	D	Beverly Hills	CA
View	4105900	Flash Wireless, LLC	Cellular	D	Charlotte	NC
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Herndon	VA
View	4111750	Gabb Wireless, Inc.	Cellular	D	Lehi	UT
View	4109350	Global Connection Inc. of America	Cellular	D	Newport	KY
View	4102200	Globalstar USA, LLC	Cellular	C	Covington	LA
View	4112850	GO TECHNOLOGY MANAGEMENT, LLC	Cellular	C	Atlanta	GA

View	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
View	4112950	Hoop Wireless, LLC	Cellular	C	Lakewood	NJ
View	4103100	i-Wireless, LLC	Cellular	B	Newport	KY
View	4112550	IDT Domestic Telecom, Inc.	Cellular	D	Newark	NJ
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Plano	TX
View	4112650	Insight Mobile, Inc.	Cellular	C	Los Angeles	CA
View	4111950	J Rhodes Enterprises LLC	Cellular	D	Gulf Breeze	FL
View	22215360	KDDI America, Inc.	Cellular	D	Staten Island	NY
View	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
View	4112200	Lexvor Inc.	Cellular	D	Irvine	CA
View	4111250	Liberty Mobile Wireless, LLC	Cellular	A	Sunny Isles Beach	FL
View	4111400	Locus Telecommunications, LLC	Cellular	D	Fort Lee	NJ
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4112500	Marconi Wireless Holdings, LLC	Cellular	D	Westlake Village	CA
View	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
View	4111700	Mint Mobile, LLC	Cellular	C	Costa Mesa	CA
View	4111850	Mobi, Inc.	Cellular	D	Honolulu	HI
View	4113350	NatWireless, LLC	Cellular	C	Houston	TX
View	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
View	4112350	NewPhone Wireless, L.L.C.	Cellular	D	Houston	TX
View	4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
View	4110700	Norcell, LLC	Cellular	D	Clayton	WA
View	4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS
View	4001800	OnStar, LLC	Cellular	A	Detroit	MI
View	4110750	Onvoy Spectrum, LLC	Cellular	D	Chicago	IL
View	4109050	Patriot Mobile LLC	Cellular	D	Grapevine	TX
View	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
View	33351182	PNG Telecommunications,	Cellular	D	Cincinnati	OH

		Inc. dba PowerNet Global Communications				
View	4112800	Prepaid Wireless Group, LLC dba Prepaid Wireless Wholesale	Cellular	C	Rockville	MD
View	4107700	Puretalk Holdings, Inc.	Cellular	A	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
View	4108700	Ready Wireless, LLC	Cellular	D	Cedar Rapids	IA
View	4113200	Red Pocket Inc.	Cellular	C	Thousand Oaks	CA
View	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	A	Los Angeles	CA
View	4113050	Sarver Corporation	Cellular	C	Ontario	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Fremont	NE
View	4110150	Spectrotel of the South LLC dba Touch Base Communications	Cellular	D	Neptune	NJ
View	4111450	Spectrum Mobile, LLC	Cellular	A	St. Louis	MO
View	4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
View	4200500	SprintCom, LLC	Cellular	A	Atlanta	GA
View	4111600	STX Group LLC dba Twigby	Cellular	D	Murfreesboro	TN
View	4113450	Syntegra North America, LLC	Cellular	C	Denton	TX
View	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
View	4002500	TAG Mobile, LLC	Cellular	D	Plano	TX
View	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	Saco	ME
View	4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL
View	4112100	Tello LLC	Cellular	C	Atlanta	GA
View	4108900	Telrite Corporation	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	D	Dallas	TX
View	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
View	4103300	Touchtone Communications, Inc.	Cellular	D	Cedar Knolls	NJ
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4112250	TROOMI WIRELESS, Inc.	Cellular	D	Lehi	UT
View	4002000	Truphone, Inc.	Cellular	D	Durham	NC
View	4112600	Tube Incorporated dba Reach Mobile	Cellular	D	Atlanta	GA

View	4112750	Unity Wireless, Inc.	Cellular	C	Pembroke Pines	FL
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	D	Costa Mesa	CA
View	10630	Verizon Americas LLC dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4113300	Via Wireless, LLC	Cellular	C	Houston	TX
View	4110800	Visible Service LLC	Cellular	D	Basking Ridge	NJ
View	4113000	Whoop Connect Inc.	Cellular	C	New York	NY
View	4106500	WiMacTel, Inc.	Cellular	D	Calgary, AB	CA
View	4110950	Wing Tel Inc.	Cellular	D	New York	NY
View	4113400	Wrazzle, Inc.	Cellular	C	New Milford	CT
View	4112150	Zefcom, LLC	Cellular	D	Wichita Falls	TX

EXHIBIT E
FAA

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

Aeronautical Study No.
2022-ASO-25251-OE
Prior Study No.
2019-ASO-15052-OE

Issued Date: 01/18/2023

Operations
Skyway Towers, LLC
3637 Madaca Lane
Tampa, FL 33618

**** 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 KY-03072 Locust_2022
Location:	Milton, KY
Latitude:	38-42-20.66N NAD 83
Longitude:	85-16-51.00W
Heights:	835 feet site elevation (SE) 255 feet above ground level (AGL) 1090 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 M, Obstruction Marking and Lighting, a med-dual system-Chapters 4,8(M-Dual),&15.

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 07/18/2024 unless:

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

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

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (817) 222-5928, or chris.smith@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2022-ASO-25251-OE.

Signature Control No: 539973505-568763653 (DNE)
Chris Smith
Specialist

Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2022-ASO-25251-OE

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

TOPO Map for ASN 2022-ASO-25251-OE


(114.65)
1180
Madison
1223
(349)
GAMKE
1097
Vevay
1167
(399)
1449
(984)
1277
762
ROBINSON (8I1)
484 – 17
122.9
Milton
1144
688
UC
stacks
Hanover
INDIANA
KENTUCKY
1158
1170
(320)
(Pvt)
CRAW DADDY
460 – 33
Carrollton
980
1100
(298)
(64I)
1275
(414)
1199
(320)
1137
(320)

EXHIBIT F
KENTUCKY AIRPORT ZONING COMMISSION

TEAM KENTUCKY TRANSPORTATION CABINET

KENTUCKY TRANSPORTATION CABINET

KENTUCKY AIRPORT ZONING COMMISSION

TC 55-2
Rev. 06/2020
Page 2 of 2

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

APPLICANT (*name*) Skyway Towers, LLC	**PHONE** 813-960-6200	**FAX** 813-960-6210	**KY AERONAUTICAL STUDY #**
ADDRESS (*street*) 3637 Madaca Lane	**CITY** Tampa	**STATE** FL	**ZIP** 33618
APPLICANT'S REPRESENTATIVE (*name*) Carrie Torrey	**PHONE** 813 960-6213	**FAX** 813-960-6200	
ADDRESS (*street*) 3637 Madaca Lane	**CITY** Tampa	**STATE** FL	**ZIP** 33618
APPLICATION FOR ☑ New Construction ☐ Alteration ☐ Existing **DURATION** ☑ Permanent ☐ Temporary (*months* *days*)		**WORK SCHEDULE** Start End	
TYPE ☐ Crane ☐ Building ☑ Antenna Tower ☐ Power Line ☐ Water Tank ☐ Landfill ☐ Other	**MARKING/PAINTING/LIGHTING PREFERRED** ☐ Red Lights & Paint ☐ White- medium intensity ☐ White- high intensity ☑ Dual- red & medium intensity white ☐ Dual- red & high intensity white ☐ Other		
LATITUDE 38° 42' 20.66"	**LONGITUDE** 85° 16' 51.00"	**DATUM** ☑ NAD83 ☐ NAD27 ☐ Other	
NEAREST KENTUCKY City Milton County Carroll	**NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT** Robinson		
SITE ELEVATION (AMSL, *feet*) 835'	**TOTAL STRUCTURE HEIGHT** (AGL, *feet*) 255'	**CURRENT** (*FAA aeronautical study #*) 2022-ASO-25251-OE	
OVERALL HEIGHT (*site elevation plus total structure height, feet*) 1090'		**PREVIOUS** (*FAA aeronautical study #*) 2019-ASO-15052-OE	
DISTANCE (*from nearest Kentucky public use or Military airport to structure*) 3.93 NM		**PREVIOUS** (*KY aeronautical study #*) AS-021-LOU-2020-014	
DIRECTION (*from nearest Kentucky public use or Military airport to structure*) West Northwest			

DESCRIPTION OF LOCATION (*Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.*)

Fairview Ridge Rd, Milton, KY 40045 (map attached)

DESCRIPTION OF PROPOSAL

Proposed 245' Self-Support Tower with 10' lightning rod

FAA Form 7460-1 (*Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?*)
☑ No ☐ Yes, when?

CERTIFICATION (*I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.*)

PENALITIES (*Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.*)

NAME	TITLE	SIGNATURE	DATE
Carrie Torrey	Program Manager	Carrie Torrey	1-18-23

COMMISSION ACTION

☐ Chairperson, KAZC
☐ Administrator, KAZC

☐ Approved
☐ Disapproved

SIGNATURE

DATE

TOPO Map for ASN 2022-ASO-25251-OE

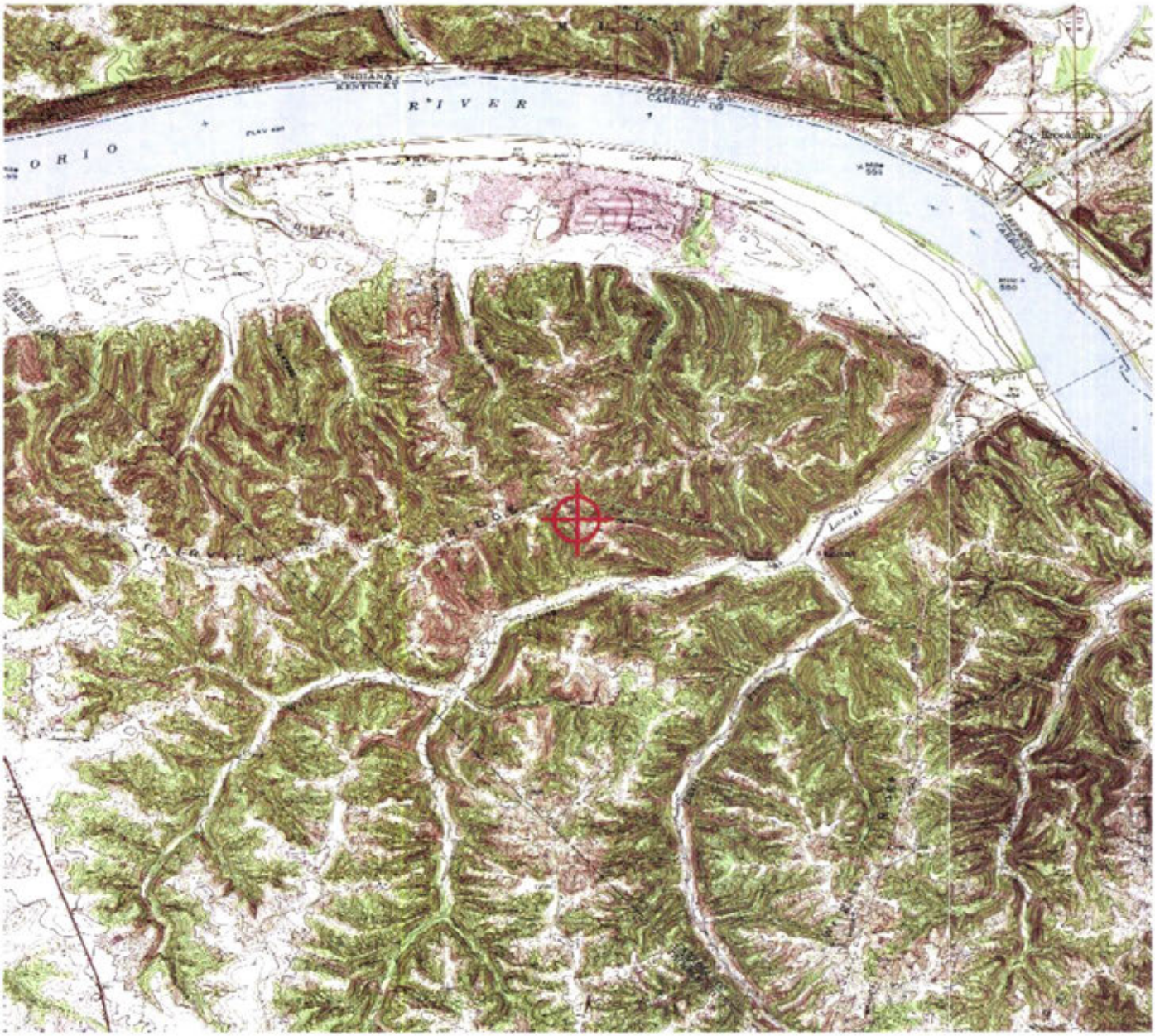


EXHIBIT G
GEOTECHNICAL REPORT

Date: April 14, 2020

POD Job Number: 18-23440

GEOTECHNICAL REPORT

LOCUST

(KY-03072)

38° 42' 20.66" N
85° 16' 51.00" W

1002 Fairview Ridge Road,
Milton, KY 40045

Prepared For:

SKYWAY TOWERS

Prepared By:

POD
POWER OF DESIGN

11490 Bluegrass Parkway | Louisville, Kentucky 40299 | 502.437.5252
POWER OF DESIGN GROUP, LLC

POD
POWER OF DESIGN

April 14, 2020

Ms. Carrie Torrey
Skyway Towers
3637 Madaca Lane
Tampa, FL 33618

Re: Geotechnical Report – **PROPOSED 245' SELF-SUPPORT TOWER w/ 10' LIGHTNING ARRESTOR**
Site Name: **LOCUST (KY-03072)**
Site Address: 1002 Fairview Ridge Road, Milton, Carroll County, Kentucky
Coordinates: N38° 42' 20.66", W85° 16' 51.00"
POD Project No. 18-23440

Dear Ms. Torrey:

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

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

Cordially,

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

STATE OF KENTUCKY
MARK E. PATTERSON
16300
LICENSED
PROFESSIONAL ENGINEER

Copies submitted: (3) Ms. Carrie Torrey

LETTER OF TRANSMITTAL

TABLE OF CONTENTS

APPENDIX

BORING LOCATION PLAN
BORING LOGS
SOIL SAMPLE CLASSIFICATION

Geotechnical Report
PROPOSED 245' SELF-SUPPORT TOWER w/ 10' LIGHTNING ARRESTOR
Site Name: **LOCUST (KY-03072)**
1002 Fairview Ridge Road, Milton, Carroll County, Kentucky
N38° 42' 20.66", W85° 16' 51.00"

1. PURPOSE AND SCOPE

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

2. PROJECT CHARACTERISTICS

Skyway is proposing to construct a self-support tower and either an equipment shelter, slab or platform at N38° 42' 20.66", W85° 16' 51.00", 1002 Fairview Ridge Road, Milton, Carroll County, Kentucky. The site is located in an open field next to a wooded area in front of a home along Fairview Ridge Road. The surrounding area is rural with the Ohio River a few miles to the north. The proposed lease area will be 10,000 square feet and will be accessed by a short access road along an existing gravel drive from Fairview Ridge Road southeast to the site. The proposed elevation at the tower location is about EL 835 and there is over 16-feet of change in elevation across the proposed lease area. The proposed tower location is shown on the Boring Location Plan in the Appendix.

3. SUBSURFACE CONDITIONS

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

According to the Kentucky Geological Survey, Kentucky Geologic Map Information Services, the site is underlain by the Upper Ordovician age Bull Fork Formation of limestone with shale. The formation had a low karst potential.

The borings encountered about 6 inches of topsoil at the existing ground surface. Below the topsoil, the borings encountered silty clay (CL) of low plasticity to auger refusal at depths ranging from 5.7 to 6.1 feet. The SPT N-values in the clay soil were between 4 to over 50 blows per foot (bpf) generally indicating a soft to hard consistency. As high as 1 foot below the ground surface, significant amounts of limestone fragments were encountered in the silty clay. Auger

refusal is defined as the depth at which the boring can no longer be advanced using the current drilling method.

The refusal material was cored in Boring B-1 from 5.9 to 25.9 feet below the ground surface. Limestone with shale seams that was hard, weathered and light gray with mud seams was encountered. The shale seams were soft and washed out of the core barrel. The recoveries of the cores were 12, 34, 34 and 53 percent with RQD values of 0, 0, 0 and 25 percent. These values generally represent very poor to fair quality rock from a foundation support viewpoint.

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

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

4. FOUNDATION DESIGN RECOMMENDATIONS

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

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

4.1. Proposed Tower

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

4.1.1. Drilled Piers

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

Depth Below Ground Surface, feet	0 - 3	3 – 6	6 - 20	20 – 25
Ultimate Bearing Pressure (psf)		11,000	21,000	27,500
C Undrained Shear Strength, psf	500	2,000	4,000	5,000
Ø Angle of Internal Friction degrees	0	0	0	0
Total Unit Weight, pcf	120	120	135	135
Soil Modulus Parameter k, pci	30	500	2000	2000
Passive Soil Pressure, psf/one foot of depth		1,350 + 40(D-3)	3,000 + 45(D-6)	3,350 + 45(D-20)
Side Friction, psf		400	800	1000

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

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

4.1.2. Mat Foundation

The tower could be supported on a common mat foundation bearing on the limestone bedrock at least 6 feet in depth can be designed using a net allowable bearing pressure of 5,000 pounds per square foot may be used. This value may be increased by 30 percent for the maximum edge pressure under transient loads. The friction value can be increased

to 0.32 between the concrete and bedrock. The passive pressures given for the drilled pier foundation may be used to resist lateral forces.

The mat must found only on bedrock. Soil pockets should be removed and replaced with a free draining, angular stone if needed.

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

4.2. Equipment Platform

An equipment platform may be supported on shallow piers bearing in the clay at about 3 feet and designed for a net allowable soil pressure of 2,000 pounds per square foot. The piers should bear at a depth of at least 24 inches to minimize the effects of frost action. All existing topsoil or soft natural soil should be removed beneath footings.

4.3. Equipment Slab

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

4.4. Equipment Building

If an equipment building support on a slab is chosen in place of the equipment platform, it may be supported on shallow spread footings bearing in the clay soil and designed for a net allowable soil pressure of 2,000 pounds per square foot.

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

Floor slabs must be supported on at least 4-inch layer of relatively clean granular material such as gravel or crushed stone containing not more than 10 percent material that passes through a No. 4 sieve. This is to help distribute concentrated loads and equalize moisture conditions beneath the slab. Provided that a minimum of 4 in. of granular material is placed below the slab, a modulus of subgrade reaction (k) of 110 lbs/cu.in. can be used for design of the floor slabs.

4.5. Drainage and Groundwater Considerations

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

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

5. GENERAL CONSTRUCTION PROCEDURES AND RECOMMENDATIONS

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

5.1 Drilled Piers

The following recommendations are recommended for drilled pier construction:

- Clean the foundation bearing area so it is nearly level or suitably benched and is free of ponded water or loose material.
- Make provisions for ground water removal from the drilled shaft excavation. While groundwater was not encountered during the soil drilling, some significant seepage may be encountered. The drilled pier contractor should have pumps on hand to remove water from the drilled pier.
- Specify concrete slumps ranging from 4 to 7 inches for the drilled shaft construction. These slumps are recommended to fill irregularities along the sides and bottom of the drilled hole,

displace water as it is placed, and permit placement of reinforcing cages into the fluid concrete.

- Retain the geotechnical engineer to observe foundation excavations after the bottom of the hole is leveled, cleaned of any mud or extraneous material, and dewatered.

- Install a temporary protective steel casing to prevent side wall collapse, prevent excessive mud and water intrusion in the drilled shaft.

- The protective steel casing may be extracted as the concrete is placed provided a sufficient head of concrete is maintained inside the steel casing to prevent soil or water intrusion into the newly placed concrete.

- Direct the concrete placement into the drilled hole through a centering chute to reduce side flow or segregation.

5.2 Fill Compaction

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

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

5.3 Construction Dewatering

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

If groundwater is encountered in the drilled pier excavations, it may be difficult to dewater since pumping directly from the excavations could cause a deterioration of the bottom of the excavation. If the pier excavations are not dewatered, concrete should be placed by the tremie method.

6 FIELD INVESTIGATION

Three soil test borings were drilled near the base of the proposed tower. Split-spoon samples were obtained by the Standard Penetration Test (SPT) procedure (ASTM D1586) in all test borings. The borings encountered auger refusal at depths between 5.7 and 6.1 feet. A rock core of the refusal material was taken in Boring B-1 from 5.9 to 25.9 feet. The split-spoon samples were inspected and visually classified by a geotechnical engineer. Representative portions of the soil samples were sealed in glass jars and returned to our laboratory.

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

7 WARRANTY AND LIMITATIONS OF STUDY

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

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

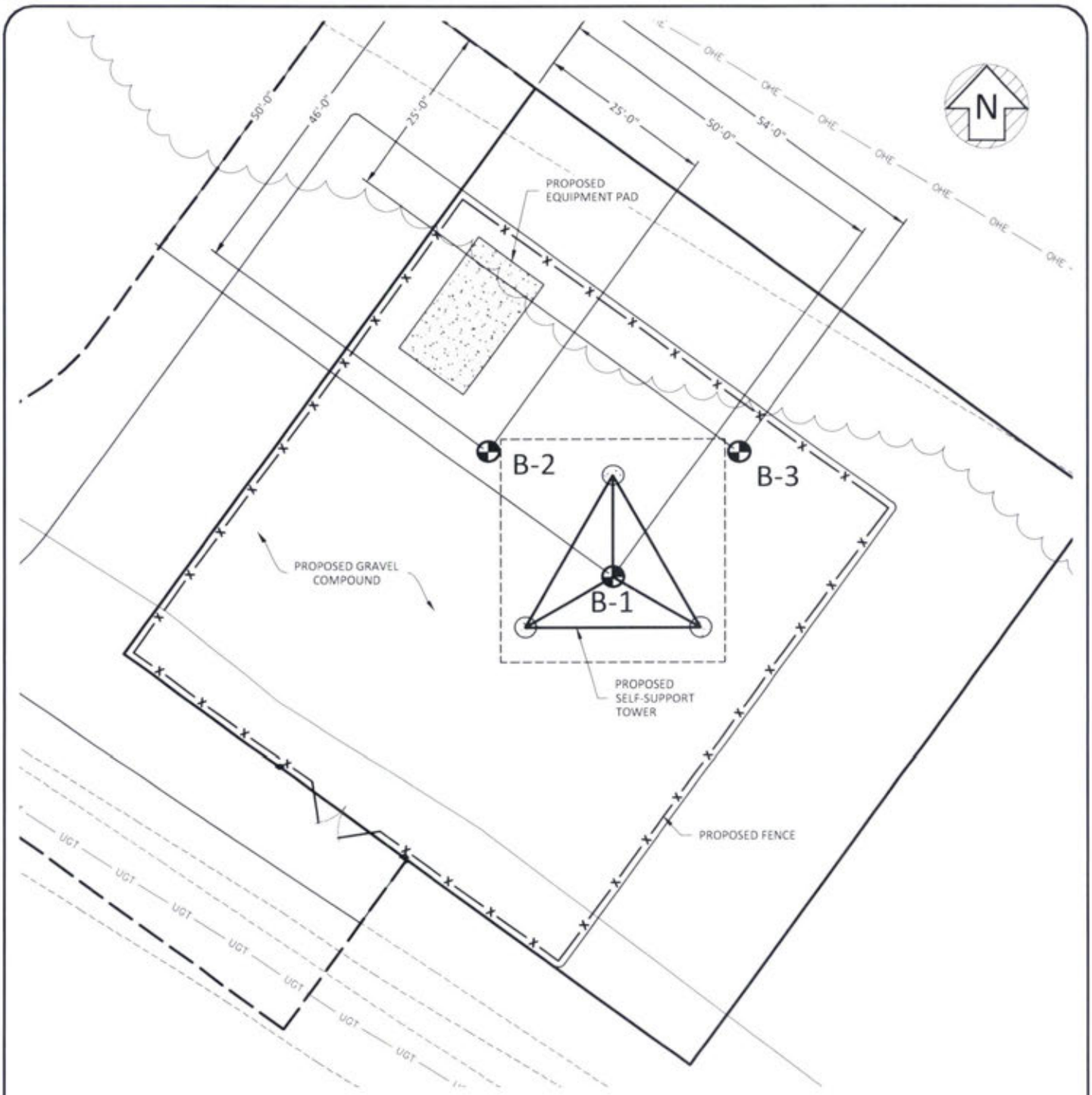
The nature and extent of variation and change in the subsurface conditions at the site may not become evident until the course of construction. Construction monitoring by the geotechnical engineer or a representative is therefore considered necessary to verify the subsurface conditions and to check that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

APPENDIX

BORING LOCATION PLAN

BORING LOGS

SOIL SAMPLE CLASSIFICATION



LEGEND

B-1 BORING LOCATION

0' 20' 40'

1"= 20'

SHEET TITLE: **BORING LOCATION PLAN**	VERIZON WIRELESS SITE NAME: LV LOCUST LATITUDE: 38° 42' 20.66" N LONGITUDE: 85° 16' 51.00" W TAX PARCEL NUMBER: 06-03 DEED BOOK 204, PAGE 467	SITE INFORMATION: LOCUST KY-03072 1002 FAIRVIEW RIDGE MILTON, KY 40045 CARROLL COUNTY	POD POWER OF DESIGN 4500 OLD LAGRANGE ROAD BUCKNER, KY 40010 502-437-5252
SHEET NUMBER: 1	POD NUMBER: 18-23440 DRAWN BY: POD CHECKED BY: MEP DATE: 3.20.20	OWNER INFORMATION: RWF LEGACY RANCH, INC. 242 SW 5TH STREET POMPANO BEACH, FL 33060	SKYWAY TOWERS

POD
POWER OF DESIGN

Boring Log

Boring: B-1

Project:	Locust	**City, State**	Milton, KY
Method:	H.S.A.	**Boring Date:**	18-Mar-20
Location:	Proposed Tower		
Inside Diameter:	4"	**Drill Rig Type:**	D-50 (ATV)
Hammer Type:	Auto		
Groundwater:	DRY	**Weather:**	
Driller:	Strata Group, LLC	**Note:**	About 6 inches of topsoil were encountered at the existing ground surface.

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.5	5.9	SILTY CLAY (CL) - medium stiff, moist, brown	0 - 1.5	SS	0, 2, 3	12	5,					1.8
	1.5	- very stiff, dry with limestone fragments	1.5 - 3	SS	4, 6, 9	4	15,					
	4.0	- hard	4 - 5.5	SS	6, 10, 50	6	60,					
5.9	25.9	LIMESTONE with SHALE - limestone was hard, weathered, light gray with mud seams. Most of the shale was soft and washed out.	5.9-10.9	RC		12		0%				
			10.9-15.9	RC		34		0%				
			15.9-20.9	RC		34		0%				
			20.9-25.9	RC		53		25%				
		Boring Terminated at 25.9 feet										

POD
POWER OF DESIGN

Boring Log

Boring: B-2

Project: Locust **City, State** Milton, KY

Method: H.S.A.	**Boring Date:** 18-Mar-20	**Location:** 25' northwest of B-1
Inside Diameter: 4"	**Drill Rig Type:** D-50 (ATV)	**Hammer Type:** Auto
Groundwater: DRY		**Weather:**
Driller: Strata Group, LLC	Note: About 6 inches of topsoil were encountered at the existing ground surface.	

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.5	6.1	SILTY CLAY (CL) - medium stiff, moist, brown	0 - 1.5	SS	0, 2, 2	12	4,					2.2
	1.5	- with limestone fragments	1.5 - 3	SS	5, 5, 7	5	12,					
	4.0	- hard	4 - 5.5	SS	7, 10, 21	8	31,					
		Boring Terminated at 6.1 feet										

POD
POWER OF DESIGN

Boring Log

Boring: B-3

Project: Locust **City, State** Milton, KY

Method: H.S.A.	**Boring Date:** 18-Mar-20	**Location:** 25' northeast of B-1
Inside Diameter: 4"	**Drill Rig Type:** D-50 (ATV)	**Hammer Type:** Auto
Groundwater: DRY		**Weather:**
Driller: Strata Group, LLC	Note: About 6 inches of topsoil were encountered at the existing ground surface.	

From (ft)	To (ft)	Material Description	Sample Depth (ft)	Sample Type	Blows per 6-inch increment	Recovery (in)	SPT-N value	Rock Quality (RQD,%)	Atterberg Limits	Moisture Content (%)	% Fines (clay & silt)	Unconfined Compressive Strength, (ksf)
0.5	5.7	SILTY CLAY (CL) - medium stiff, moist, brown	0 - 1.5	SS	0, 3, 2	8	5,					1.8
	1.5	- stiff with limestone fragments	1.5 - 3	SS	4, 5, 6	5	11,					
	4.0	- very stiff	4 - 5.5	SS	7, 8, 16	5	24,					
		Boring Terminated at 5.7 feet										

SOIL SAMPLE CLASSIFICATION

FINE AND COARSE GRAINED SOIL INFORMATION

COARSE GRAINED SOILS (SANDS & GRAVELS)

N	Relative Density
0-4	Very Loose
5-10	Loose
11-20	Firm
21-30	Very Firm
31-50	Dense
Over 50	Very Dense

FINE GRAINED SOILS (SILTS & CLAYS)

N	Consistency	Qu, KSF Estimated
0-1	Very Soft	0-0.5
2-4	Soft	0.5-1
5-8	Firm	1-2
9-15	Stiff	2-4
16-30	Very Stiff	4-8
Over 31	Hard	8+

PARTICLE SIZE

Boulders	Greater than 300 mm (12 in)
Cobbles	75 mm to 300 mm (3 to 12 in)
Gravel	4.74 mm to 75 mm (3/16 to 3 in)
Coarse Sand	2 mm to 4.75 mm
Medium Sand	0.425 mm to 2 mm
Fine Sand	0.075 mm to 0.425 mm
Silts & Clays	Less than 0.075 mm

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

ROCK PROPERTIES

ROCK QUALITY DESIGNATION (RQD)

Percent RQD	Quality
0-25	Very Poor
25-50	Poor
50-75	Fair
75-90	Good
90-100	Excellent

ROCK HARDNESS

Very Hard:	Rock can be broken by heavy hammer blows.
Hard:	Rock cannot be broken by thumb pressure, but can be broken by moderate hammer blows.
Moderately Hard:	Small pieces can be broken off along sharp edges by considerable hard thumb pressure; can be broken with light hammer blows.
Soft:	Rock is coherent but breaks very easily with thumb pressure at sharp edges and crumbles with firm hand pressure.
Very Soft:	Rock disintegrates or easily compresses when touched; can be hard to very hard soil.

$$\text{Recovery} = \frac{\text{Length of Rock Core Recovered}}{\text{Length of Core Run}} \times 100$$

63 REC

$$\text{RQD} = \frac{\text{Sum of 4 in. and longer Rock Pieces Recovered}}{\text{Length of Core Run}} \times 100$$

NQ

43 RQD

Core Diameter	Inches
BQ	1-7/16
NQ	1-7/8
HQ	2-1/2

SYMBOLS

KEY TO MATERIAL TYPES

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

ROCKS	
Symbols	Typical Names
	Limestone or Dolomite
	Shale
	Sandstone

SOIL PROPERTY SYMBOLS

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

SAMPLING SYMBOLS

SS	Split Spoon Sample
UD	Relatively Undisturbed Sample
Core 1	Rock Core Sample

EXHIBIT H
DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at 440 Main Street Carrollton, KY 41008, head south on Court Street toward Highland Ave and travel approximately 217 feet.
2. Turn right onto US-42 / Highland Ave and travel approximately 1.7 miles.
3. Continue straight onto KY-36 W and travel approximately 2.8 miles.
4. Turn left onto State Hwy 1492 and travel approximately 1.7 miles.
5. Take a slight right onto Fairview Ridge Road and travel approximately 1 mile.
6. The site is on the left at 1002 Fairview Ridge, Milton, KY 40045.
7. The site coordinates are:
    a. North 38 deg 42 min 20.66 sec
    b. West 85 deg 16 min 51.00 sec

Prepared by:
Chris Shouse
Pike Legal Group
1578 Highway 44 East, Suite 6
P.O. Box 396
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

EXHIBIT I
COPY OF REAL ESTATE AGREEMENT

Prepared by and Return to:
Skyway Towers, LLC
3637 Madaca Lane
Tampa, FL 33618
Attn: Property Management, Arlene K Evers

State: Kentucky
County: Carroll
Parcel ID: Map 06-03

MEMORANDUM OF AGREEMENT

This Memorandum of Agreement is entered into on this 18th day of January, 2019, by and between RWF Legacy Ranch, Inc., a Florida corporation, having a mailing address of ~~242~~ SW 5th Street Pompano Beach, Florida 33060 (hereinafter referred to as "**Landlord**"), and Skyway Towers, LLC, a Delaware limited liability company, having a mailing address of 3637 Madaca Lane, Tampa, Florida 33618 (hereinafter referred to as "**Tenant**").

1. Landlord and Tenant entered into a certain Option and Lease Agreement ("**Agreement**") on the 18th day of January, 2019, for the purpose of installing, operating, and maintaining a Communications Tower Facility and other improvements. The property is more fully described in **Exhibit 1** attached hereto and made a part hereof (the "**Property**"). All of the foregoing is set forth in the Agreement.

2. The initial term will be five (5) years ("**Initial Term**") commencing on the Commencement Date, with seven (7) successive five (5) year renewal options.

3. In the event Landlord receives a bona fide written offer to sell, assign or transfer Landlord's interest under the Agreement and/or the Landlord's rights to receive rents under the terms of the Agreement (the "**Rental Stream Offer**"), Tenant retains a right of first refusal to match the Rental Stream Offer.

4. This Memorandum of Agreement is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Agreement, all of which are hereby ratified and affirmed.

5. In the event of a conflict between the provisions of this Memorandum of Agreement and the provisions of the Agreement, the provisions of the Agreement shall control.

6. The Agreement shall be binding upon and inure to the benefit of the parties and their respective heirs, successors, and assigns, subject to the provisions of the Agreement.

TRW

IN WITNESS WHEREOF, the parties have executed this Memorandum of Agreement as of the day and year first above written.

WITNESSES:

Print Name: Cesar Hardy

Susan H Crouse

Print Name: SUSAN H Crouse

"LANDLORD"

RWF Legacy Ranch, Inc., a Florida corporation

By: _____

Print Name: Travis Williamson

Its: Vice President

Date: 1/7/2019

LANDLORD ACKNOWLEDGEMENT

STATE OF Florida)

) ss:

COUNTY OF Broward)

I CERTIFY that on January 7th, 2019, Travis Williamson personally came before me and acknowledged under oath to my satisfaction, that he:

(a) is the President of RWF Legacy Ranch, Inc., a Florida corporation, the corporation named in the attached instrument;

(b) is authorized to execute this instrument on behalf of the corporation; and

(c) executed the instrument as the act of the corporation.

[Affix Notary Seal]

SUSAN H CROUSE
Notary Public - State of Florida
Commission # GG 256936
My Comm. Expires Sep 10, 2022
Bonded through National Notary Assn.

Susan H Crouse

Notary Public State of Florida

Print Name: SUSAN H. Crouse

My Commission Expires: Sep 10, 2022

[TENANT SIGNATURES AND ACKNOWLEDGEMENT FOLLOW ON NEXT PAGE]

WITNESSES:

"TENANT"

Skyway Towers, LLC,
a Delaware limited liability company

Print Name: KATRINA McCLATTON

Print Name: Arlene Clavers

By: _____
Print Name: Scott M. Behuniak
Its: President / COO
Date: 1-18-19

TENANT ACKNOWLEDGEMENT

STATE OF FLORIDA)
) ss:
COUNTY OF HILLSBOROUGH)

The foregoing instrument was acknowledged before me this 18th day of January, 2019, by Scott M. Behuniak, as President / COO of Skyway Towers, LLC, a Delaware limited liability company, on behalf of the company, who is personally known.

[Affix Notary Seal]

Carrie L. Torrey
NOTARY PUBLIC
STATE OF FLORIDA
Comm# FF906399
Expires 8/24/2019

Notary Public State of Florida
Print Name: Carrie L. Torrey
My Commission Expires: 8/24/19

EXHIBIT 1
DESCRIPTION OF THE PROPERTY

The Property is situated in Carroll County in the State of Kentucky, and is described as follows:

Parcel ID: Map 06-03

One hundred and thirty-five acres of land, bounded on the north by the lands of Ben Donathan, the heirs of R. S. Gross, deceased, and L. D. Kiper, on the east by the lands of James Thompson and J. E. Young, on the south by the lands of Louis Cribbins, and on the west by the lands formerly owned by John Morrow.

Being the same property conveyed to Lena Mae Edwards from Lois Faye Garrett and Porter Garrett, her husband; Linda Carroll Johnson and Richard Johnson, her husband; Gary Ray Edwards and Vicki Lynn Edwards, his wife; and, Vivian K. Imel and Kim Imel, her husband, by Quitclaim Deed dated April 4, 1983, of record in Deed Book 95, Page 449. Lena Mae Edwards died November 17, 2016, and pursuant to her Last Will and Testament of record in Will Book J22, Page 485, Gary Ray Edwards, Lois Fay Edwards, Linda Carroll Johnson, and Vivian K. Imel (now Vivian K. Ebley), were devised the above described property. See also Affidavit for Estate of Lena Mae Edwards recorded in Deed Book 204, Page 281-283. All documents are recorded in the Office of the Carroll County Court Clerk.

Note:
This Exhibit may be supplemented or replaced by full legal description based upon a land survey of the Property once a land survey is received by Tenant.

DOCUMENT NO: 96198
RECORDED:February 07,2019 02:46:00 PM
TOTAL FEES: $20.00
COUNTY CLERK: ALICE W. MARSH
DEPUTY CLERK: DANIELLE KINMAN
COUNTY: CARROLL COUNTY
BOOK: L 6 PAGES: 607 - 610

EXHIBIT J
NOTIFICATION LISTING
CERTIFIED GREEN CARD RECEIPTS

Locust – Notice List

RWF LEGACY RANCH INC
242 SW 5TH STREET
POMPANO BEACH, FL 33060

DERMON TIMOTHY W
7735 WINDCHASE DR
BEAUMONT, TX 777138826

BAYLES WILLIAM
532 W PRONG LOCUST RD
MILTON, KY 40045

WENTWORTH MARY
828 W PRONG LOCUST
MILTON, KY 40045

MANDAKH ENEREL
1086 W PRONG LOCUST RD
MILTON, KY 40045

JOHNSON ALEXANDER S & GRIMES RACHEL
1312 W PRONG LOCUST
MILTON, KY 40045

MCDOLE GEORGE WILLIAM LEE
1344 FAIRVIEW RIDGE
MILTON, KY 40045

SNELL MARK KEVIN & TINA M
1148 FAIRVIEW RIDGE
MILTON, KY 40045


U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
7022 3330 0000 4290 3093
SHEPHERDSVILLE
MAR 02 2023
KY 40165
WENTWORTH MARY
828 W PRONG LOCUST
MILTON, KY 40045


U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
7022 3330 0000 4290 3147
SHEPHERDSVILLE
MAR 02 2023
KY 40165
RWF LEGACY RANCH INC
242 SW 5TH STREET
POMPANO BEACH, FL 33060


U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
7022 3330 0000 4290 2928
SHEPHERDSVILLE
MAR 02 2023
KY 40165
JOHNSON ALEXANDER S &
GRIMES RACHEL
1312 W PRONG LOCUST
MILTON, KY 40045


U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
7022 3330 0000 4290 3079
SHEPHERDSVILLE
MAR 02 2023
KY 40165
DERMON TIMOTHY W
7735 WINDCHASE DR
BEAUMONT, TX 777138826


U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
7022 3330 0000 4290 3109
SHEPHERDSVILLE
MAR 02 2023
KY 40165
MCDOLE GEORGE WILLIAM LEE
1344 FAIRVIEW RIDGE
MILTON, KY 40045


U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.
7022 3330 0000 4290 3086
SHEPHERDSVILLE
MAR 02 2023
KY 40165
BAYLES WILLIAM
532 W PRONG LOCUST RD
MILTON, KY 40045

7022 3330 0000 4290 3116

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.

MANDAKH ENEREL
1086 W PRONG LOCUST RD
MILTON, KY 40045

7022 3330 0000 4290 3123

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.

SNELL MARK KEVIN & TINA M
1148 FAIRVIEW RIDGE
MILTON, KY 40045

7022 3330 0000 4290 3130

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
Domestic Mail Only
For delivery information, visit our website at www.usps.com®.

DAVID WILHOITE
COUNTY JUDGE EXECUTIVE
440 MAIN STREET
CARROLLTON KY 41008

EXHIBIT K
COPY OF PROPERTY OWNER NOTIFICATION

PIKE LEGAL

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

Notice of Proposed Construction of Wireless Communications Facility Site Name: Locust

Dear Landowner:

Skyway Towers, LLC, a Delaware limited liability company, and Cellco Partnership, a Delaware General Partnership d/b/a Verizon Wireless have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 1002 Fairview Ridge, Milton, KY 40045 (38° 42' 20.66" North latitude, 85° 16' 51.00" West longitude). The proposed facility will include a 245-foot tall antenna tower, plus a 10-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area. As you may know, the PSC previously approved construction of this proposed facility in 2020. However, the facility has not yet been constructed, and the present application is filed to request update authorization from the PSC to construct the proposed facility.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2023-00074 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Applicants' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us toll free at (800) 516-4293 if you have any comments or questions about this proposal.

Sincerely,
David A. Pike
Attorney for Applicant

enclosure

Driving Directions to Proposed Tower Site

1. Beginning at 440 Main Street Carrollton, KY 41008, head south on Court Street toward Highland Ave and travel approximately 217 feet.
2. Turn right onto US-42 / Highland Ave and travel approximately 1.7 miles.
3. Continue straight onto KY-36 W and travel approximately 2.8 miles.
4. Turn left onto State Hwy 1492 and travel approximately 1.7 miles.
5. Take a slight right onto Fairview Ridge Road and travel approximately 1 mile.
6. The site is on the left at 1002 Fairview Ridge, Milton, KY 40045.
7. The site coordinates are:
    a. North 38 deg 42 min 20.66 sec
    b. West 85 deg 16 min 51.00 sec

Prepared by:
Chris Shouse
Pike Legal Group
1578 Highway 44 East, Suite 6
P.O. Box 396
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

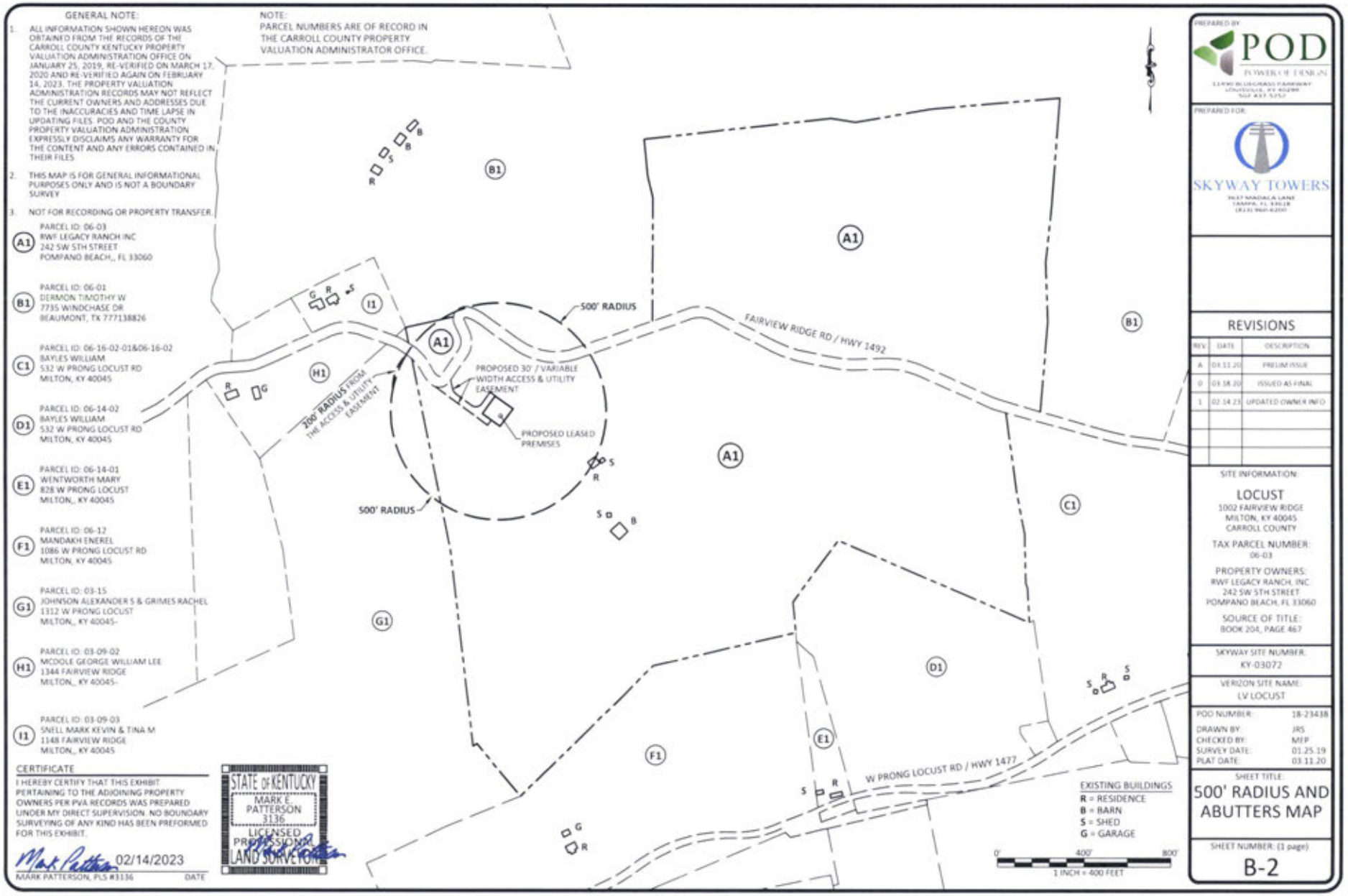


EXHIBIT L
COPY OF COUNTY JUDGE/EXECUTIVE NOTICE

PIKE LEGAL

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

VIA CERTIFIED MAIL

David Wilhoite
County Judge Executive
440 Main Street
Carrollton, KY 41008

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2023-00074
Site Name: Locust

Dear Judge/Executive:

Skyway Towers, LLC, a Delaware limited liability company, and Cellco Partnership, a Delaware General Partnership d/b/a Verizon Wireless has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 1002 Fairview Ridge, Milton, KY 40045 (38° 42' 20.66" North latitude, 85° 16' 51.00" West longitude). The proposed facility will include a 245-foot tall antenna tower, plus a 10-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area. As you may know, the PSC previously approved construction of this proposed facility in 2020. However, the facility has not yet been constructed, and the present application is filed to request update authorization from the PSC to construct the proposed facility.

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 2023-00074 in any correspondence sent in connection with this matter.

We have attached a map showing the site location for the proposed tower. Applicants' radio frequency engineers assisted in selecting the proposed site for the facility, and they have determined it is the proper location and elevation needed to provide quality service to wireless customers in the area. Please feel free to contact us with any comments or questions you may have.

Sincerely,
David A. Pike
Attorney for Applicant
enclosures

Driving Directions to Proposed Tower Site

1. Beginning at 440 Main Street Carrollton, KY 41008, head south on Court Street toward Highland Ave and travel approximately 217 feet.
2. Turn right onto US-42 / Highland Ave and travel approximately 1.7 miles.
3. Continue straight onto KY-36 W and travel approximately 2.8 miles.
4. Turn left onto State Hwy 1492 and travel approximately 1.7 miles.
5. Take a slight right onto Fairview Ridge Road and travel approximately 1 mile.
6. The site is on the left at 1002 Fairview Ridge, Milton, KY 40045.
7. The site coordinates are:
    a. North 38 deg 42 min 20.66 sec
    b. West 85 deg 16 min 51.00 sec

Prepared by:
Chris Shouse
Pike Legal Group
1578 Highway 44 East, Suite 6
P.O. Box 396
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

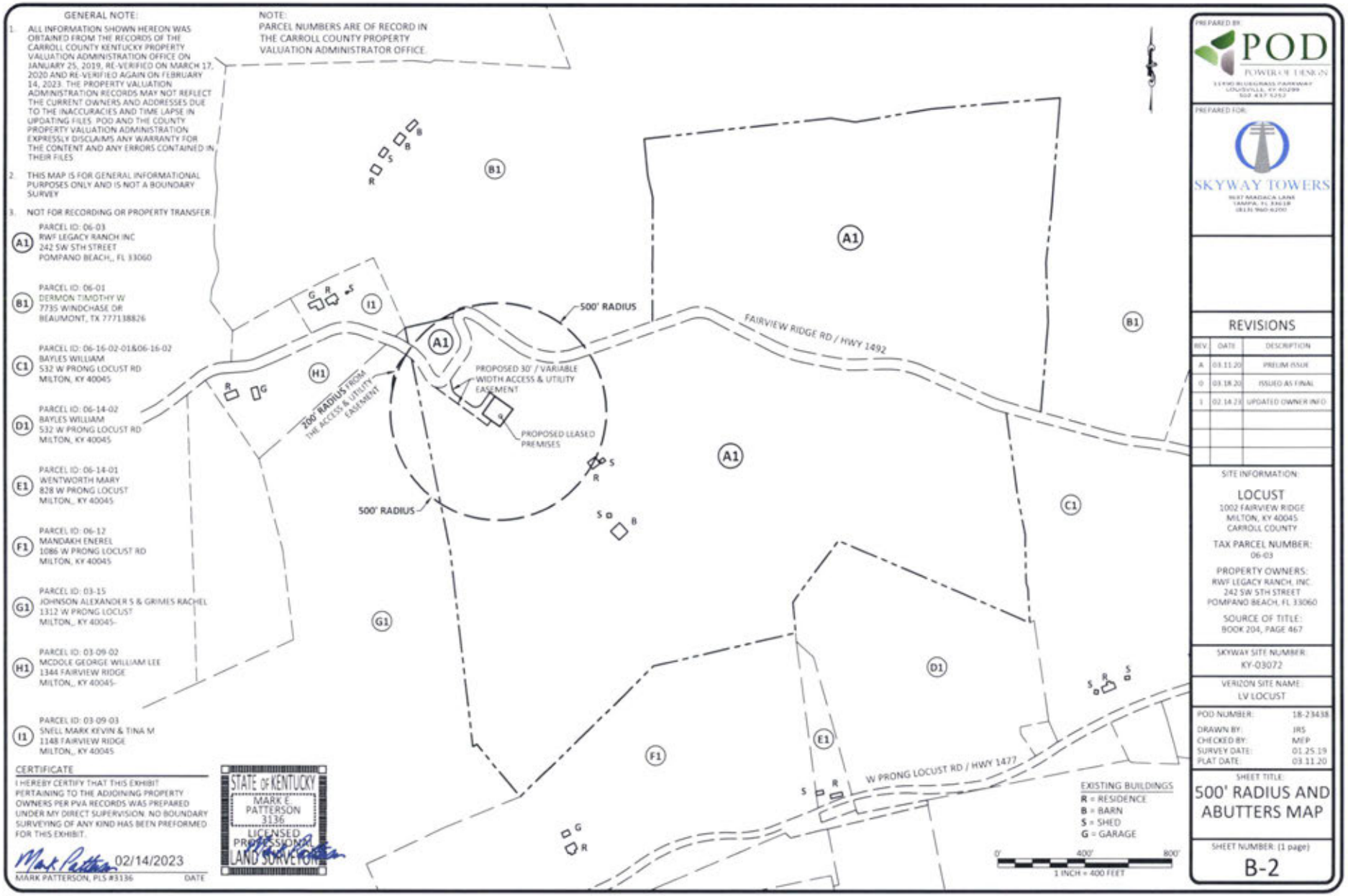


EXHIBIT M
COPY OF POSTED NOTICES
AND NEWSPAPER NOTICE ADVERTISEMENT

SITE NAME: LOCUST
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.

Skyway Towers, LLC and Cellco Partnership d/b/a Verizon Wireless propose to construct a telecommunications **tower** on this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2023-00074 in your correspondence.

Skyway Towers, LLC and Cellco Partnership d/b/a Verizon Wireless propose to construct a telecommunications **tower** near this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2023-00074 in your correspondence.

PIKE LEGAL

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

VIA TELEPHONE: (502) 732-4261
VIA FAX: (502) 732-0453

Carrollton News Democrat
Attn: Public Notice Ad Placement
122 6th Street
Carrollton, KY 41008

RE: Legal Notice Advertisement
Site Name: Locust

Dear Carrollton News Democrat:

Please publish the following legal notice advertisement in the next edition of *Carrollton News Democrat*:

NOTICE

Skyway Towers, LLC, a Delaware limited liability company, and Cellco Partnership, a Delaware General Partnership d/b/a Verizon Wireless have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on 1002 Fairview Ridge, Milton, KY 40045 (38° 42' 20.66" North latitude, 85° 16' 51.00" 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 2023-00074 in any correspondence sent in connection with this matter.

After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Pike Legal Group, PLLC, P. O. Box 369, Shepherdsville, KY 40165. Please call me at (800) 516-4293 if you have any questions. Thank you for your assistance.

Sincerely,
Chris Shouse
Pike Legal Group, PLLC

EXHIBIT N
COPY OF RADIO FREQUENCY DESIGN SEARCH AREA


Hunter Heights
1492
Fairview Ridge Rd
© 2018 Google
Google Earth
1477