COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

In the Matter of:

THE APPLICATION OF	)	
NEW CINGULAR WIRELESS PCS, LLC,	)	
A DELAWARE LIMITED LIABILITY COMPANY,	)	
D/B/A AT&T MOBILITY	)	
AND DIAMOND TOWERS V LLC,	)	
A DELAWARE LIMITED LIABILITY COMPANY	)	
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC	)	CASE NO.: 2020-00372
CONVENIENCE AND NECESSITY TO CONSTRUCT	)	
A WIRELESS COMMUNICATIONS FACILITY	)	
IN THE COMMONWEALTH OF KENTUCKY	)	
IN THE COUNTY OF WHITLEY	)	

SITE NAME: SMITH HOLLOW

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

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

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

information:

1. The complete names and addresses of the Applicants are: New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility, having an address of Meidinger Tower, 462 S. 4th Street, Suite 2400, Louisville, Kentucky 40202 and Diamond Towers V LLC, a Delaware limited liability company having an address of 820 Morris Turnpike, Suite 104, Short Hills NJ 07078.

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

3. AT&T Mobility is a limited liability company organized in the State of Delaware on October 20, 1994. Diamond Towers V LLC is a limited liability company organized in the State of Delaware on November 15, 2017.

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

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

6. AT&T Mobility operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. Copies of AT&T Mobility's FCC licenses to provide wireless services are attached to this Application or described as part of **Exhibit A**, and the facility will be constructed and operated in

accordance with applicable FCC regulations.

7. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve AT&T Mobility's services to an area currently not served or not adequately served by AT&T Mobility by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. The WCF will provide a necessary link in AT&T Mobility's communications network that is designed to meet the increasing demands for wireless services in Kentucky's wireless communications service area. The WCF is an integral link in AT&T Mobility's network design that must be in place to provide adequate coverage to the service area.

8. To address the above-described service needs, Applicants propose to construct a WCF at Kentucky Highway 92, Williamsburg, KY 40769 (36° 40' 30.13" North latitude, 84° 16' 27.91" 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 Matthew and Ashley Ratliff pursuant to a deed recorded at Deed Book 470, Page 658 in the office of the County Clerk. The proposed WCF will consist of a 255-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 265-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of AT&T Mobility's radio electronics equipment and appurtenant equipment. The Applicants' equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the

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

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

10. The site development plan and a vertical profile sketch of the WCF signed and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for AT&T Mobility's antennas has also been included as part of **Exhibit B**.

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

12. Applicants have considered the likely effects of the installation of the proposed WCF on nearby land uses and values and have concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate AT&T Mobility's antennas on an existing structure. When suitable towers or structures exist, AT&T Mobility attempts to co-locate on existing structures such as communications towers or other structures capable of supporting AT&T Mobility's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site.

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

14. A copy of the approval issued by the Kentucky Airport Zoning Commission

("KAZC") is attached as **Exhibit F**.

15. A 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. Diamond Towers V LLC, pursuant to a written agreement, has acquired the right to use the WCF site and associated property rights. A copy of the agreements or abbreviated agreements recorded with the County Clerk are attached as **Exhibit I**.

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

19. The identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained in **Exhibits B & C**. Personnel directly responsible for the design and construction of the proposed WCF are well qualified and experienced.

20. As noted on the Survey attached as part of **Exhibit B**, the surveyor has

determined that the site is not within any flood hazard area.

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

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

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

24. Notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2) that measure at least 2 feet in height and 4 feet in width and that contain all required

language in letters of required height, have been posted, one in a visible location on the proposed site and one on the nearest public road. Such signs shall remain posted for at least two weeks after filing of the Application, and a copy of the posted text is attached as **Exhibit M**. A legal notice advertisement regarding the location of the proposed facility has been published in a newspaper of general circulation in the county in which the WCF is proposed to be located. A copy of the newspaper legal notice advertisement is attached as part of **Exhibit M**.

25. The general area where the proposed facility is to be located is rural and heavily wooded. There are no existing residential structures located within 500' of the proposed tower location.

26. The process that was used by AT&T Mobility's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. AT&T Mobility's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Applicants when searching for sites for its antennas that would provide the coverage deemed necessary by AT&T Mobility. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant

to radio frequency requirements is attached as **Exhibit N**.

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

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

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

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

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

Respectfully submitted,

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

LIST OF EXHIBITS

A - Certificate of Authority & FCC License Documentation

B - Site Development Plan:

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

C - Tower and Foundation Design

D - Competing Utilities, Corporations, or Persons List

E - FAA

F - Kentucky Airport Zoning Commission

G - Geotechnical Report

H - Directions to WCF Site

I - Copy of Real Estate Agreement

J - Notification Listing

K - Copy of Property Owner Notification

L - Copy of County Judge/Executive Notice

M - Copy of Posted Notices and Newspaper Notice Advertisement

N - Copy of Radio Frequency Design Search Area

EXHIBIT A
CERTIFICATE OF AUTHORITY & FCC LICENSE DOCUMENTATION

Commonwealth of Kentucky
Alison Lundergan Grimes, Secretary of State

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

Certificate of Authorization

Authentication number: 216299
Visit https://app.sos.ky.gov/ftshow/certvalidate.aspx to authenticate this certificate.

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

NEW CINGULAR WIRELESS PCS, LLC

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

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

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

Alison Lundergan Grimes
Secretary of State
Commonwealth of Kentucky
216299/0481848

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Alison Lundergan Grimes **Kentucky Secretary of State** Received and Filed: 11/28/2017 11:56 AM Fee Receipt: $90.00	

COMMONWEALTH OF KENTUCKY
ALISON LUNDERGAN GRIMES, SECRETARY OF STATE

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

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

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

2. The name of the entity is Diamond Towers V 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 11/15/17 and the period of duration is perpetual.
(If left blank, the period of duration is considered perpetual.)

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

820 Morris Turnpike, Suite 104	Short Hills	NJ	07078
Street Address	**City**	**State**	**Zip Code**

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

421 West Main Street	Frankfort	KY	40601
Street Address (No P.O. Box Numbers)	**City**	**State**	**Zip Code**

and the name of the registered agent at that office is Corporation Service Company.

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

Gene Grieco	820 Morris Turnpike, Suite 104	Short Hills	NJ	07078
Name	**Street or P.O. Box**	**City**	**State**	**Zip Code**
Michael G. Brett	820 Morris Turnpike, Suite 104	Short Hills	NJ	07078
Name	**Street or P.O. Box**	**City**	**State**	**Zip Code**
Edward Farscht	820 Morris Turnpike, Suite 104	Short Hills	NJ	07078
Name	**Street or P.O. Box**	**City**	**State**	**Zip Code**

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

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

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

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

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

Please indicate the Kentucky county in which your business operates:
County: _____.

To complete the following, please shade the box completely.

Please indicate the size of your business:	**Please indicate whether any of the following make up more than fifty percent (50%) of your business ownership:**
☑ Small (Fewer than 50 employees) ☐ Large (50 or more employees)	☐ Women-Owned ☐ Veteran Owned ☐ Minority Owned

Please indicate which of the following best describes your business:

☐ Agriculture	☐ Mining	☐ Services	☐ Construction
☐ Wholesale Trade	☐ Retail Trade	☐ Manufacturing	☐ Finance, Insurance, Real Estate
☐ Public Administration	☑ Transportation, Communications, Electric, Gas, Sanitary Services		
☐ Other			

[signature]	Gene Grieco, Authorized Person	11/22/17
Signature of Authorized Representative	**Printed Name & Title**	**Date**

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

By: [signature]	Michele L. Abbott	Asst. VP	11/27/17
Signature of Registered Agent	**Printed Name**	**Title**	**Date**

(05/17)

Federal Communications Commission
Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

Call Sign	File Number
KNKN673	
Radio Service CL - Cellular	
Market Numer CMA453	**Channel Block** A
Sub-Market Designator 0	

FCC Registration Number (FRN): 0003291192

Market Name
Kentucky 11 - Clay

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

Site Information:

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
4	36-44-50.6 N	084-08-43.6 W	469.7	62.2	1043812

Address: 969 CELL TOWER ROAD (76426)
City: WILLIAMSBURG **County:** WHITLEY **State:** KY **Construction Deadline:**

Antenna: 1

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	**0**	**45**	**90**	**135**	**180**	**225**	**270**	**315**
Antenna Height AAT (meters)	164.200	142.000	198.300	134.200	151.500	124.900	186.500	184.500
Transmitting ERP (watts)	80.790	33.632	2.346	0.254	0.164	0.164	5.156	40.160

Antenna: 2

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	**0**	**45**	**90**	**135**	**180**	**225**	**270**	**315**
Antenna Height AAT (meters)	164.200	142.000	198.300	134.200	151.500	124.900	186.500	184.500
Transmitting ERP (watts)	1.159	16.802	80.666	104.784	22.590	1.407	0.209	0.204

Antenna: 3

Maximum Transmitting ERP in Watts:	140.820							
Azimuth(from true north)	**0**	**45**	**90**	**135**	**180**	**225**	**270**	**315**
Antenna Height AAT (meters)	164.200	142.000	198.300	134.200	151.500	124.900	186.500	184.500
Transmitting ERP (watts)	0.393	0.106	0.095	1.187	9.994	34.712	26.126	3.238

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

FCC 601-C
March 2018

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN673 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
7	36-38-29.0 N	083-46-24.9 W	917.4	64.9	1056643

Address: 2 MILES NORTHWEST OF NOETOWN 19 MIL (76435)
City: Middlesboro **County:** BELL **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)	514.300	514.900	478.800	557.800	452.400	334.800	345.400	421.600
Transmitting ERP (watts)	41.864	12.118	1.035	0.164	0.104	0.102	0.886	11.503

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)	514.300	514.900	478.800	557.800	452.400	334.800	345.400	421.600
Transmitting ERP (watts)	0.286	0.947	0.706	0.874	0.879	0.224	0.101	0.109

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
12	36-58-46.0 N	083-01-30.2 W	736.8	80.5	1010610

Address: 21834 HIGHWAY 160 (76432)
City: GORDON **County:** LETCHER **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)	316.700	319.800	30.000	54.700	30.000	198.900	238.900	287.300
Transmitting ERP (watts)	112.719	46.762	8.219	1.163	0.285	0.298	5.383	44.574

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)	316.700	319.800	30.000	54.700	30.000	198.900	238.900	287.300
Transmitting ERP (watts)	0.636	12.989	91.274	94.955	26.405	2.175	0.841	0.311

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)	316.700	319.800	30.000	54.700	30.000	198.900	238.900	287.300
Transmitting ERP (watts)	1.458	0.224	0.588	1.866	27.246	84.787	72.123	11.074

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	36-40-53.1 N	084-08-46.5 W	446.2	58.8	

Address: 895 WAGON WHEEL ROAD (76433)
City: WILLIAMSBURG **County:** WHITLEY **State:** KY **Construction Deadline:**

Antenna: 1
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.200	160.200	107.400	125.700	101.200	58.800	107.500	145.600
Transmitting ERP (watts)	24.755	89.034	70.279	10.065	1.351	0.211	0.387	1.828

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN673 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
13	36-40-53.1 N	084-08-46.5 W	446.2	58.8	

Address: 895 WAGON WHEEL ROAD (76433)
City: WILLIAMSBURG **County:** WHITLEY **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)	159.200	160.200	107.400	125.700	101.200	58.800	107.500	145.600
Transmitting ERP (watts)	0.124	3.716	14.234	28.095	19.823	32.016	11.426	8.167

Antenna: 3
Maximum Transmitting ERP in Watts: 140.820

Azimuth(from true north)	0	45	90	135	180	225	270	315
Antenna Height AAT (meters)	159.200	160.200	107.400	125.700	101.200	58.800	107.500	145.600
Transmitting ERP (watts)	21.702	2.370	0.815	0.286	0.611	12.974	63.085	92.160

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
16	36-50-41.4 N	084-09-27.9 W	410.0	97.8	1204258

Address: 4499 HIGHWAY 511 (64046)
City: Rockholds **County:** WHITLEY **State:** KY **Construction Deadline:** 02-23-2013

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)	144.000	137.900	124.500	157.700	188.600	187.400	152.500	147.000
Transmitting ERP (watts)	40.926	37.139	5.069	0.465	0.105	0.099	1.028	10.105

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)	144.000	137.900	124.500	157.700	188.600	187.400	152.500	147.000
Transmitting ERP (watts)	0.176	0.199	0.523	10.033	46.347	45.959	7.311	1.005

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-09-19.2 N	083-26-33.1 W	516.6	98.1	1043811

Address: 2255 DAVIDSON FORK ROAD (76424)
City: THOUSAND STICKS **County:** LESLIE **State:** KY **Construction Deadline:** 02-23-2013

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)	255.100	250.600	210.300	157.900	145.900	186.400	230.000	208.500
Transmitting ERP (watts)	183.310	76.153	8.501	2.109	0.426	0.548	8.899	75.006

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)	255.100	250.600	210.300	157.900	145.900	186.400	230.000	208.500
Transmitting ERP (watts)	1.243	25.877	136.672	204.174	47.594	4.976	1.640	0.627

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN673 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
17	37-09-19.2 N	083-26-33.1 W	516.6	98.1	1043811

Address: 2255 DAVIDSON FORK ROAD (76424)
City: THOUSAND STICKS **County:** LESLIE **State:** KY **Construction Deadline:** 02-23-2013

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)	255.100	250.600	210.300	157.900	145.900	186.400	230.000	208.500
Transmitting ERP (watts)	2.923	0.456	0.895	4.155	54.327	193.511	147.915	23.334

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
18	36-45-42.1 N	083-40-29.0 W	685.2	129.5	1215974

Address: RO7 PO BOX 264E BIRD BRANCH ROAD (76437)
City: PINEVILLE **County:** BELL **State:** KY **Construction Deadline:** 02-23-2013

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)	314.900	270.100	337.000	312.300	338.800	334.000	355.300	387.000
Transmitting ERP (watts)	91.981	37.204	3.868	0.986	0.201	0.271	4.377	36.079

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)	314.900	270.100	337.000	312.300	338.800	334.000	355.300	387.000
Transmitting ERP (watts)	2.152	13.241	26.567	29.575	18.963	5.601	3.888	1.518

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)	314.900	270.100	337.000	312.300	338.800	334.000	355.300	387.000
Transmitting ERP (watts)	5.299	1.993	2.409	5.378	23.634	32.748	36.478	14.971

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	36-53-53.5 N	083-19-27.0 W	858.6	35.4	

Address: 3017 NORTH US HIGHWAY 421 (76355)
City: BAXTER **County:** HARLAN **State:** KY **Construction Deadline:** 02-23-2013

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)	423.700	288.900	270.400	273.500	415.500	424.000	260.500	381.500
Transmitting ERP (watts)	118.281	51.051	5.389	1.305	0.258	0.357	5.945	46.435

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)	423.700	288.900	270.400	273.500	415.500	424.000	260.500	381.500
Transmitting ERP (watts)	4.387	28.108	56.992	61.619	38.611	11.792	8.653	3.099

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN673 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
19	36-53-53.5 N	083-19-27.0 W	858.6	35.4	

Address: 3017 NORTH US HIGHWAY 421 (76355)
City: BAXTER **County:** HARLAN **State:** KY **Construction Deadline:** 02-23-2013

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)	423.700	288.900	270.400	273.500	415.500	424.000	260.500	381.500
Transmitting ERP (watts)	1.510	0.244	0.451	2.060	26.719	99.966	80.742	11.222

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
22	37-09-01.0 N	083-41-03.6 W	484.0	94.4	1267062

Address: Bear Creek Rd (87003)
City: Hector **County:** CLAY **State:** KY **Construction Deadline:** 02-23-2013

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)	247.900	220.000	188.600	160.500	206.100	259.700	247.500	246.500
Transmitting ERP (watts)	153.770	65.269	4.896	0.487	0.313	0.307	9.959	76.610

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)	247.900	220.000	188.600	160.500	206.100	259.700	247.500	246.500
Transmitting ERP (watts)	1.554	22.565	112.704	140.260	30.708	1.874	0.302	0.278

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)	247.900	220.000	188.600	160.500	206.100	259.700	247.500	246.500
Transmitting ERP (watts)	1.012	0.314	0.295	4.424	44.416	139.728	106.944	13.222

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	37-08-58.7 N	083-45-07.4 W	452.6	96.0	1043808

Address: LUCAS ROAD ON TOP OF HILL (76428)
City: MANCHESTER **County:** CLAY **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)	212.800	191.000	150.800	181.400	199.900	198.200	202.800	202.900
Transmitting ERP (watts)	111.736	45.822	5.058	1.185	0.248	0.336	5.441	44.976

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)	212.800	191.000	150.800	181.400	199.900	198.200	202.800	202.900
Transmitting ERP (watts)	0.630	13.113	68.789	97.232	23.078	2.526	0.830	0.308

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN673 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
23	37-08-58.7 N	083-45-07.4 W	452.6	96.0	1043808

Address: LUCAS ROAD ON TOP OF HILL (76428)
City: MANCHESTER **County:** CLAY **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)	212.800	191.000	150.800	181.400	199.900	198.200	202.800	202.900
Transmitting ERP (watts)	4.442	3.181	3.850	5.507	16.941	16.885	21.020	12.170

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
24	36-52-13.8 N	083-24-54.2 W	835.2	80.5	1007945

Address: 3700 WATTS CREEK TOWER ROAD (76431)
City: WALLINS CREEK **County:** HARLAN **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)	357.800	283.300	392.600	363.200	337.000	470.900	325.200	332.900
Transmitting ERP (watts)	116.142	48.918	4.986	1.287	0.267	0.341	5.779	46.632

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)	357.800	283.300	392.600	363.200	337.000	470.900	325.200	332.900
Transmitting ERP (watts)	1.626	16.756	46.777	60.050	27.346	5.464	2.977	1.029

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)	357.800	283.300	392.600	363.200	337.000	470.900	325.200	332.900
Transmitting ERP (watts)	1.479	0.233	0.427	2.031	27.025	95.886	77.822	11.442

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
25	36-36-37.5 N	083-42-49.1 W	346.5	60.3	1232693

Address: 131 AMESBURY STREET (76438)
City: MIDDLESBORO **County:** BELL **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)	30.000	30.000	30.000	30.000	30.000	30.000	30.000	30.000
Transmitting ERP (watts)	145.069	41.420	3.508	0.571	0.313	0.301	3.015	39.614

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)	30.000	30.000	30.000	30.000	30.000	30.000	30.000	30.000
Transmitting ERP (watts)	0.125	3.991	32.278	53.652	8.875	0.818	0.150	0.111

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: KNKN673 **File Number:** **Print Date:**

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
25	36-36-37.5 N	083-42-49.1 W	346.5	60.3	1232693

Address: 131 AMESBURY STREET (76438)
City: MIDDLESBORO **County:** BELL **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)	30.000	30.000	30.000	30.000	30.000	30.000	30.000	30.000
Transmitting ERP (watts)	0.906	0.242	0.226	0.866	20.330	108.084	76.154	7.898

Location	Latitude	Longitude	Ground Elevation (meters)	Structure Hgt to Tip (meters)	Antenna Structure Registration No.
26	36-42-35.9 N	083-40-58.1 W	636.1	57.3	

Address: RURAL ROUTE 1 BOX 109 (76441)
City: PINEVILLE **County:** BELL **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)	218.900	188.400	284.100	201.300	245.000	65.400	242.700	257.700
Transmitting ERP (watts)	15.060	36.966	29.277	42.643	20.844	12.416	3.511	5.735

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)	218.900	188.400	284.100	201.300	245.000	65.400	242.700	257.700
Transmitting ERP (watts)	0.639	0.133	0.186	4.240	28.970	66.602	17.897	2.186

Control Points:

Control Pt. No. 1

Address: 1650 LYNDON FARMS COURT

City: LOUISVILLE **County:** **State:** KY **Telephone Number:** (502)329-4700

Waivers/Conditions:

WE MAKE NO FINDING IN THESE CASES THE ISSUES RAISED IN FOOTNOTE 3 OF LA STAR CELLULAR TELEPHONE COMPANY, 7 FF Rcd 3762 (1992). THEREFORE, THESE GRANTS OF TRANSFERS/ASSIGNMENTS ARE CONDITIONED ON ANY SUBSEQUENT ACTION THE COMMISSION MAY TAKE CONCERING THE

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

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

ATTN: CECIL J. MATHEW
NEW CINGULAR WIRELESS PCS, LLC
208 S AKARD ST., RM 1016
DALLAS, TX 75202

Call Sign	File Number
KNLF251	
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

Grant Date	Effective Date	Expiration Date	Print Date
06-02-2015	01-16-2020	06-23-2025	

Market Number	Channel Block	Sub-Market Designator
MTA026	A	15

Market Name
Louisville-Lexington-Evansvill

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

Waivers/Conditions:

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

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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

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

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

Call Sign	File Number
WPOI255	
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0003291192

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

Market Number	Channel Block	Sub-Market Designator
MTA026	A	19

Market Name
Louisville-Lexington-Evansvill

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

Waivers/Conditions:

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

This authorization is subject to the condition that the remaining balance of the winning bid amount will be paid in accordance with Part 1 of the Commission's rules, 47 C.F.R. Part 1.

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPOI255 **File Number:** **Print Date:**

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

Spectrum Lease Associated with this License. See Spectrum Leasing Arrangement Letter dated 12/06/2004 and File # 0001918558.

The Spectrum Leasing Arrangement, which became effective upon approval of application file number 0001918558, was terminated on 04/14/2005. See file number 0002135370.

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WPOI255 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

Call Sign	File Number
WQGA824	
Radio Service AW - AWS (1710-1755 MHz and 2110-2155 MHz)	

FCC Registration Number (FRN): 0003291192

Grant Date	Effective Date	Expiration Date	Print Date
11-29-2006	08-31-2018	11-29-2021	

Market Number	Channel Block	Sub-Market Designator
CMA453	A	0

Market Name
Kentucky 11 - Clay

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

Waivers/Conditions:

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

Conditions:

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

Call Sign: WQGA824 **File Number:** **Print Date:**

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

Federal Communications Commission

Wireless Telecommunications Bureau

RADIO STATION AUTHORIZATION

LICENSEE: NEW CINGULAR WIRELESS PCS, LLC

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

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

FCC Registration Number (FRN): 0003291192

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

Market Number	Channel Block	Sub-Market Designator
BEA047	C	9

Market Name
Lexington, KY-TN-VA-WV

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

Waivers/Conditions:

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

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

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

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

Licensee Name: NEW CINGULAR WIRELESS PCS, LLC

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

700 MHz Relicensed Area Information:

Market	Market Name	Buildout Deadline	Buildout Notification	Status

EXHIBIT B

SITE DEVELOPMENT PLAN:

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

at&t

SITE NAME:

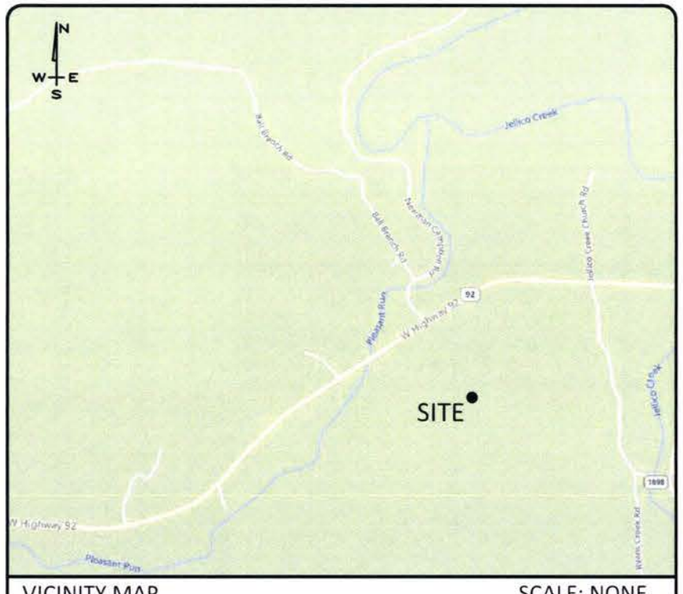
SMITH HOLLOW

FA NUMBER:

13800691

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.

NEW RAWLAND SITE WITH A NEW 255' SELF-SUPPORT TOWER W/10' LIGHTNING ARRESTOR AND INSTALLATION OF A VERTIV 80" X 80" WALK IN CABINET & A GENERAC 30KW GENERATOR ON A 10'-0" X 17'-0" CONCRETE FOUNDATION



VICINITY MAP SCALE: NONE

DRIVE DIRECTIONS

STARTING AT THE WHITLEY COUNTY CIRCUIT COURT CLERK'S OFFICE:
100 MAIN STREET, WILLIAMSBURG, KY 40769

HEAD SOUTHWEST ON MAIN ST TOWARD N 2ND ST	0.2 MILES
CONTINUE STRAIGHT ONTO STATE HWY 296/MAIN ST	1.7 MILES
TURN RIGHT ONTO KY-92 W	7.3 MILES
TURN LEFT ONTO JELLICO CREEK RD	0.5 MILES

ARRIVE AT SITE ACCESS DRIVE ON THE LEFT

SCOPE OF WORK:

CONSTRUCTION DRAWINGS FOR:
CONSTRUCTION OF A NEW UNMANNED TELECOMMUNICATIONS FACILITY.

SITE WORK: NEW TOWER, UNMANNED WALK-IN CABINET WITH GENERATOR ON CONCRETE FOUNDATION, AND UTILITY INSTALLATIONS.

PROJECT INFORMATION

COUNTY:	WHITLEY
SITE ADDRESS:	KENTUCKY HIGHWAY 92 WILLIAMSBURG, KY 40769
APPLICANT:	DIAMOND COMMUNICATIONS 30 CHATHAM ROAD SHORT HILLS, NJ 07078 (973) 544-6834
LATITUDE:	36° 40' 30.13"
LONGITUDE:	-84° 16' 27.91"

CONTACT INFORMATION

FIRE DEPARTMENT
WILLIAMSBURG FIRE DEPT.
PHONE: (606) 549-6037

POLICE DEPARTMENT
WILLIAMSBURG POLICE DEPARTMENT
PHONE: (606) 549-6038

ELECTRIC COMPANY
KENTUCKY UTILITIES COMPANY
PHONE: (800) 981-0600

TELEPHONE COMPANY
AT&T
PHONE: (800) 288-2020

BUILDING CODES AND STANDARDS

CONTRACTOR'S WORK SHALL COMPLY WITH ALL APPLICABLE NATIONAL, STATE AND LOCAL CODES AS ADOPTED BY THE LOCAL AUTHORITY HAVING JURISDICTION FOR THE LOCATION.

- CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:
- AMERICAN CONCRETE INSTITUTE 318
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION TIA-222
- STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND SUPPORTING STRUCTURES TIA-601
- COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
- INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS IEEE-81, IEEE 1100, IEEE C62.41
- ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION
- 2018 KBC
- 2014 NEC

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

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GD-7	EROSION CONTROL DETAILS
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C-2	ENLARGED COMPOUND LAYOUT
C-3	TOWER ELEVATION
C-4	WIC FOUNDATION PLAN (TURNDOWN)
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G-2	WIC GROUNDING DETAILS
G-3	GROUNDING DETAILS
G-4	GROUNDING DETAILS
G-5	GROUNDING NOTES

LANDLORD APPROVAL

SIGNATURE DATE

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

PREPARED FOR:
Diamond Communications LLC

PREPARED FOR:
at&t

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

11/12/2020

CONSTRUCTION PERMIT: 3594

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION
A	10.08.20	ISSUED FOR REVIEW
B	10.29.20	CLIENT COMMENTS
C	10.30.20	CLIENT COMMENTS
D	11.10.20	STARTING ADDRESS
E	11.12.20	ISSUED FOR ZONING

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

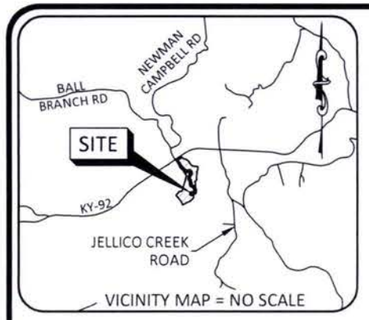
FA NUMBER:
13800691

POD NUMBER: 20-69321

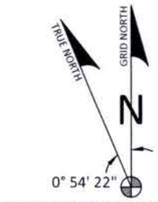
DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
TITLE SHEET & PROJECT INFORMATION

SHEET NUMBER:
T-1



VICINITY MAP = NO SCALE



BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON JULY 21, 2020

GLOBAL POSITIONING SYSTEMS NOTE

1. THE BOUNDARY CORNERS 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 0.05' TO 0.07' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.

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THIS SURVEY IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT ONLY, 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 0.07', FOR A PRECISION OF 1:46,207 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 LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON IS LOCATED IN ZONE X AND IS NOT LOCATED IN A 100-YEAR FLOOD PLAIN PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21235C0200E, DATED MARCH 16, 2015.

Kentucky 811
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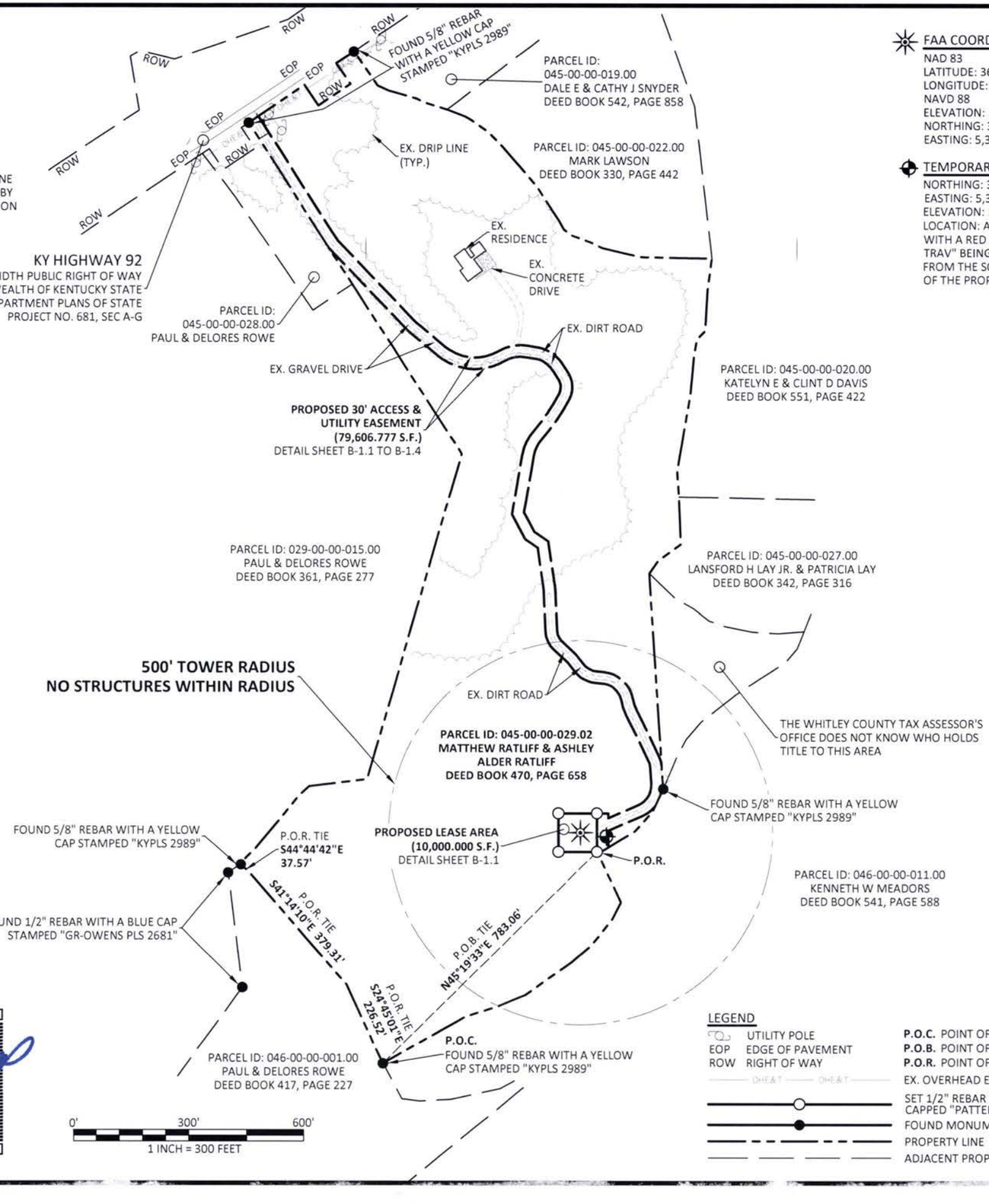
1-800-752-6007
PER KENTUCKY STATE LAW, IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

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 11/12/2020
MARK PATTERSON, PLS #3136 DATE

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



FAA COORDINATE POINT

NAD 83
LATITUDE: 36°40'30.134679"
LONGITUDE: -84°16'27.915343"
NAVD 88
ELEVATION: 1,355'± AMSL
NORTHING: 3,408,682.3482
EASTING: 5,354,028.8983

TEMPORARY BENCHMARK

NORTHING: 3,408,672.044
EASTING: 5,354,096.639
ELEVATION: 1,358.36'
LOCATION: A SET 1/2" REBAR WITH A RED CAP STAMPED "POD TRAV" BEING N32°27'E 47.04± FROM THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA.

LEGEND

UTILITY POLE	P.O.C. POINT OF COMMENCEMENT
EOP EDGE OF PAVEMENT	P.O.B. POINT OF BEGINNING
ROW RIGHT OF WAY	P.O.R. POINT OF REFERENCE
OHE&T OHE&T	EX. OVERHEAD ELECTRIC & TELE
	SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
	FOUND MONUMENT AS NOTED
	PROPERTY LINE
	ADJACENT PROPERTY LINE

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

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

REVISIONS

REV.	DATE	DESCRIPTION
A	8.3.20	PRELIMINARY SURVEY
0	11.4.20	ISSUED AS FINAL

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBERS:
045-00-00-029.02

PROPERTY OWNER:
MATTHEW RATLIFF &
ASHLEY ALDER RATLIFF
P O BOX 1506
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

SITE NUMBER:
KY036

POD NUMBER:	20-65922
DRAWN BY:	JRS
CHECKED BY:	MEP
SURVEY DATE:	7.21.20
PLAT DATE:	8.3.20

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

SHEET NUMBER: (6 pages)
B-1

FAA COORDINATE POINT
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TRUE NORTH
GRID NORTH
N
0° 54' 22"

BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON JULY 21, 2020

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Mark Patterson 11/12/2020

MARK PATTERSON, PLS #3136 DATE

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

SHEET B-1.2
MATCH LINE

CH=64.71'
AL=42.57'
R=165.00'
N18°22'30"W
CH=42.45'
AL=34.83'
R=135.00'
S18°22'30"E
CH=34.73'

THE WHITLEY COUNTY TAX ASSESSOR'S OFFICE DOES NOT KNOW WHO HOLDS TITLE TO THIS AREA

S25°45'57"E 133.42'
N25°45'57"W 133.42'

PARCEL ID: 045-00-00-029.02
MATTHEW RATLIFF & ASHLEY ALDER RATLIFF
DEED BOOK 470, PAGE 658

EX. DIRT TRAIL

AL=25.06'
R=65.00'
S14°43'09"E
CH=24.91'

AL=13.50'
R=35.00'
N14°43'09"W
CH=13.41'

N03°40'20"W
42.70'

S03°40'20"E
59.54'

PROPOSED 30' ACCESS & UTILITY EASEMENT (79,606.777 S.F.)

FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989"

AL=71.65'
R=58.43'
N31°27'11"E
CH=67.24'

S25°18'20"W
50.60'

N90°00'00"E
30.00'

S00°00'00"E
12.23'

N66°34'42"E 83.71'

AL=40.96'
R=88.43'
S53°18'39"W
CH=40.59'

S66°34'42"W 96.70'

N90°00'00"E 100.00'

PROPOSED LEASE AREA
(10,000.000 S.F.)

N00°00'00"W 100.00'

S00°00'00"E 100.00'

N00°00'00"W 100.00'

S00°00'00"E
43.49'

PARCEL ID: 046-00-00-011.00
KENNETH W MEADORS
DEED BOOK 541, PAGE 588

N90°00'00"W 100.00'

S58°55'56"W
22.45'

N90°00'00"W
10.77'

5.56'

P.O.B.

P.O.B. TIE
N45°19'33"E 783.06'

Kentucky 811
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LEGEND
P.O.B. POINT OF BEGINNING
SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
FOUND MONUMENT AS NOTED
PROPERTY LINE
ADJACENT PROPERTY LINE

0' 60' 120'
1 INCH = 60 FEET

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

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
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(973) 544-6834

REVISIONS

REV.	DATE	DESCRIPTION
A	8.3.20	PRELIMINARY SURVEY
0	11.4.20	ISSUED AS FINAL

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBERS:
045-00-00-029.02

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P O BOX 1506
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

SITE NUMBER:
KY036

POD NUMBER:	20-65922
DRAWN BY:	JRS
CHECKED BY:	MEP
SURVEY DATE:	7.21.20
PLAT DATE:	8.3.20

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

SHEET NUMBER: (6 pages)
B-1.1

FAA COORDINATE POINT
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LATITUDE: 36°40'30.134679"
LONGITUDE: -84°16'27.915343"
NAVD 88
ELEVATION: 1,355'± AMSL
NORTHING: 3,408,682.3482
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GRID NORTH
N
0° 54' 22"
BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON JULY 21, 2020

SHEET B-1.3
MATCH LINE

N27°47'35"W 73.89'
S27°47'35"E 56.14'
S56°11'37"E 45.35'
N56°11'37"W 39.63'
N08°20'06"W 107.73'
S08°20'06"E 122.56'
N02°32'36"W 110.92'
S02°32'36"E 112.44'

EX. DRIP LINE (TYP.)

PROPOSED 30' ACCESS & UTILITY EASEMENT (79,606.777 S.F.)

PARCEL ID: 045-00-00-029.02
MATTHEW RATLIFF & ASHLEY ALDER RATLIFF
DEED BOOK 470, PAGE 658

PARCEL ID: 045-00-00-027.00
LANSFORD H LAY JR. & PATRICIA LAY
DEED BOOK 342, PAGE 316

500' TOWER RADIUS
NO STRUCTURES WITHIN RADIUS

EX. DIRT TRAIL

AL=27.61'
R=35.65'
S24°43'45"E
CH=26.93'

AL=50.84'
R=65.65'
N24°43'45"W
CH=49.58'

S46°54'54"E 50.77'
N46°54'54"W 48.49'
S38°13'45"E 34.01'
N38°13'45"W 31.73'
AL=37.35'
R=46.41'
S61°16'57"E
CH=36.35'
S84°20'09"E 20.88'
N84°20'09"W 20.88'
AL=107.75'
R=84.17'
S47°39'36"E
CH=100.54'
AL=61.49'
R=76.41'
N61°16'57"W
CH=59.84'
AL=69.35'
R=54.17'
N47°39'36"W
CH=64.71'
AL=42.57'
R=165.00'
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0' 60' 120'
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SHEET B-1.1

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Mark Patterson 11/12/2020

MARK PATTERSON, PLS #3136 DATE

STATE OF KENTUCKY
MARK PATTERSON
3136
LICENSED PROFESSIONAL LAND SURVEYOR

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LOUISVILLE, KY 40299
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REVISIONS

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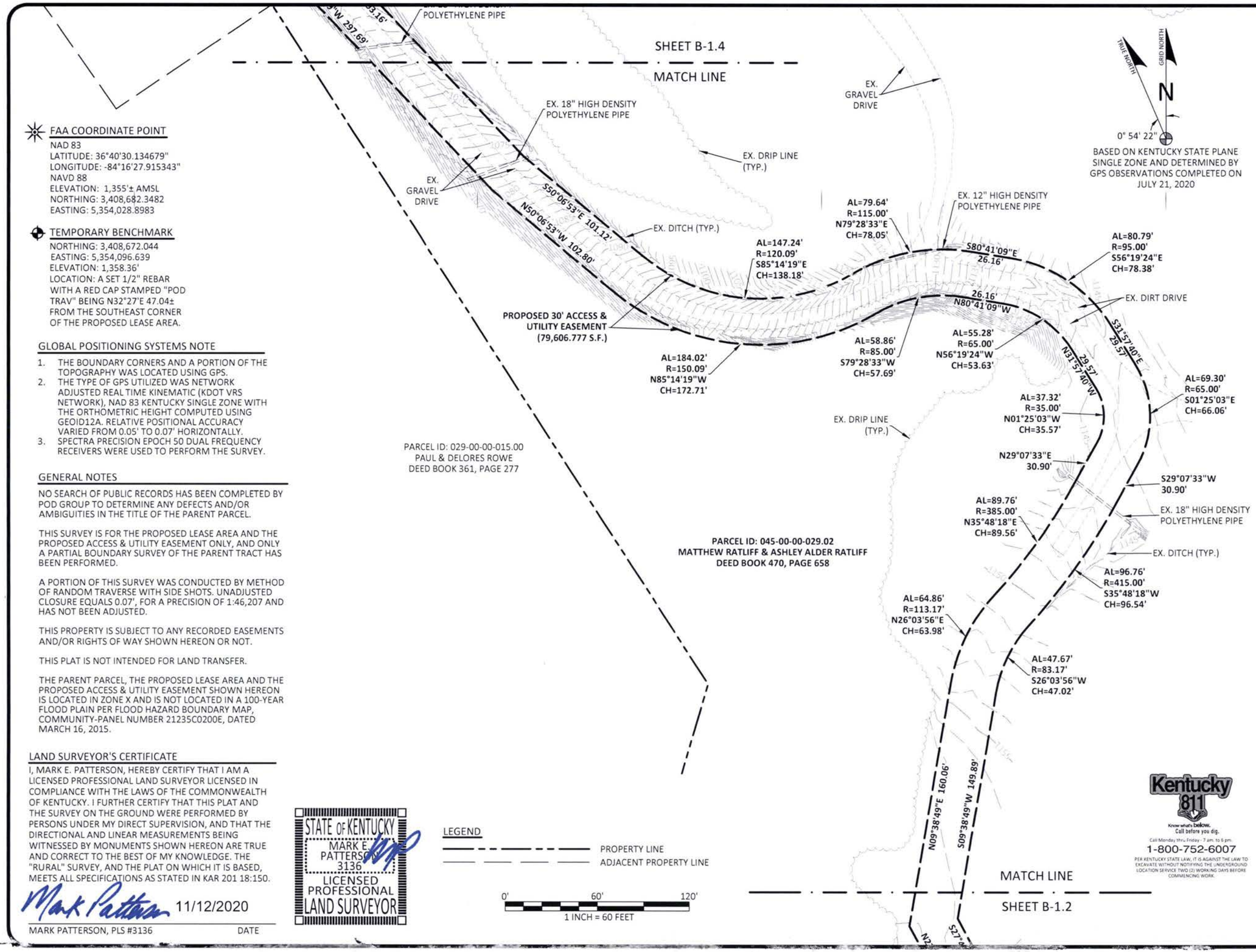

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NAD 83
LATITUDE: 36°40'30.134679"
LONGITUDE: -84°16'27.915343"
NAVD 88
ELEVATION: 1,355'± AMSL
NORTHING: 3,408,682.3482
EASTING: 5,354,028.8983

TEMPORARY BENCHMARK

NORTHING: 3,408,672.044
EASTING: 5,354,096.639
ELEVATION: 1,358.36'
LOCATION: A SET 1/2" REBAR WITH A RED CAP STAMPED "POD TRAV" BEING N32°27'E 47.04± FROM THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA.

GLOBAL POSITIONING SYSTEMS NOTE

1. THE BOUNDARY CORNERS 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 0.05' TO 0.07' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.

GENERAL NOTES

NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT PARCEL.

THIS SURVEY IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT ONLY, 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 0.07', FOR A PRECISION OF 1:46,207 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 LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON IS LOCATED IN ZONE X AND IS NOT LOCATED IN A 100-YEAR FLOOD PLAIN PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21235C0200E, DATED MARCH 16, 2015.

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 11/12/2020

MARK PATTERSON, PLS #3136 DATE

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

LEGEND

PROPERTY LINE
ADJACENT PROPERTY LINE

0' 60' 120'
1 INCH = 60 FEET

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.

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

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

REVISIONS

REV.	DATE	DESCRIPTION
A	8.3.20	PRELIMINARY SURVEY
0	11.4.20	ISSUED AS FINAL

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBERS:
045-00-00-029.02

PROPERTY OWNER:
MATTHEW RATLIFF &
ASHLEY ALDER RATLIFF
P O BOX 1506
WILLIAMSBURG, KY 40769

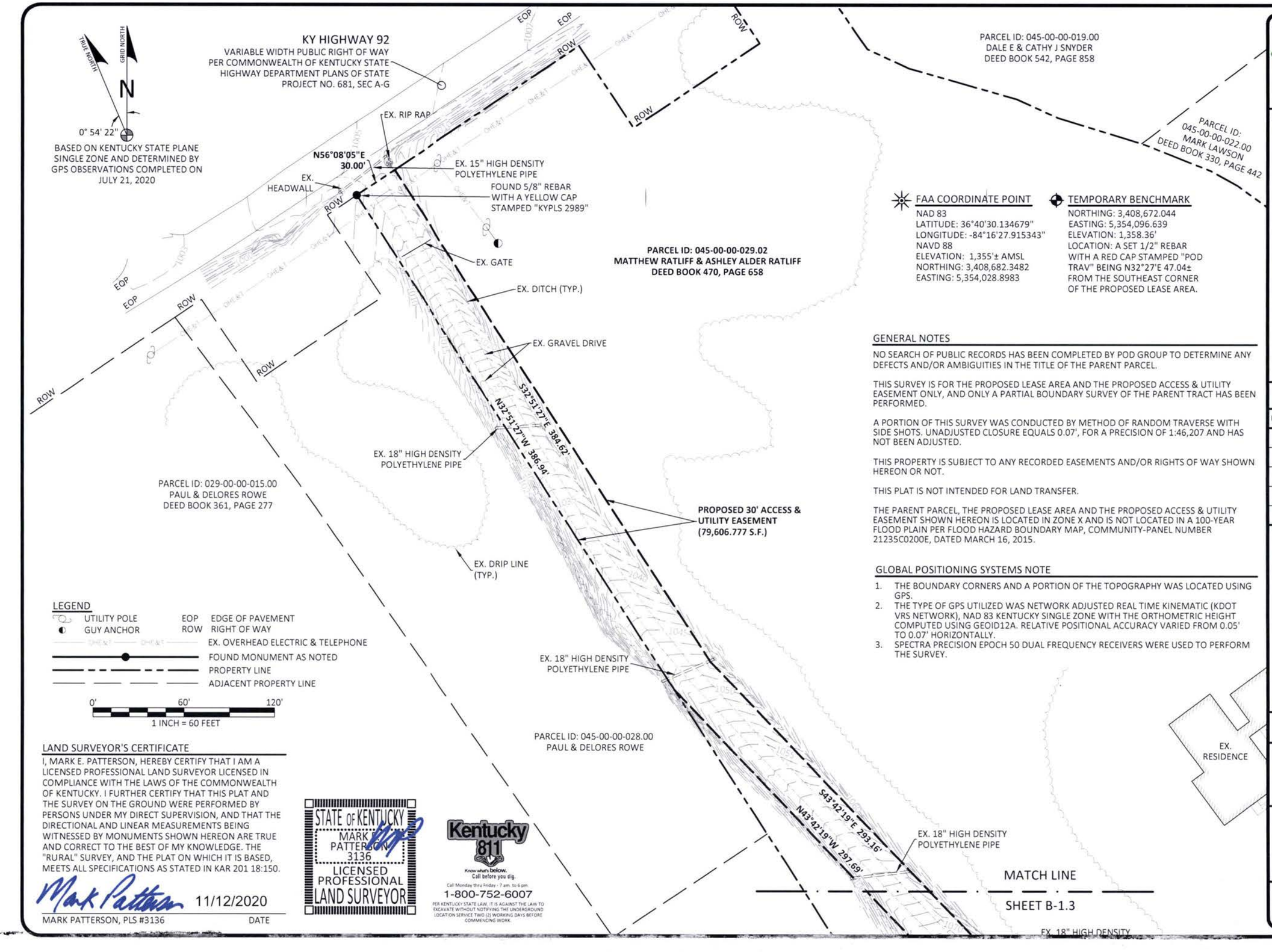
SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

SITE NUMBER:
KY036

POD NUMBER:	20-65922
DRAWN BY:	JRS
CHECKED BY:	MEP
SURVEY DATE:	7.21.20
PLAT DATE:	8.3.20

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

SHEET NUMBER: (6 pages)
B-1.3



FAA COORDINATE POINT
NAD 83
LATITUDE: 36°40'30.134679"
LONGITUDE: -84°16'27.915343"
NAVD 88
ELEVATION: 1,355'± AMSL
NORTHING: 3,408,682.3482
EASTING: 5,354,028.8983

TEMPORARY BENCHMARK
NORTHING: 3,408,672.044
EASTING: 5,354,096.639
ELEVATION: 1,358.36'
LOCATION: A SET 1/2" REBAR WITH A RED CAP STAMPED "POD TRAV" BEING N32°27'E 47.04± FROM THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA.

GENERAL NOTES

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A PORTION OF THIS SURVEY WAS CONDUCTED BY METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. UNADJUSTED CLOSURE EQUALS 0.07', FOR A PRECISION OF 1:46,207 AND HAS NOT BEEN ADJUSTED.

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GLOBAL POSITIONING SYSTEMS NOTE

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Mark Patterson 11/12/2020

MARK PATTERSON, PLS #3136 DATE

STATE OF KENTUCKY
MARK PATTERSON
3136
LICENSED PROFESSIONAL LAND SURVEYOR

Kentucky 811
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LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

REVISIONS

REV.	DATE	DESCRIPTION
A	8.3.20	PRELIMINARY SURVEY
0	11.4.20	ISSUED AS FINAL

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBERS:
045-00-00-029.02

PROPERTY OWNER:
MATTHEW RATLIFF &
ASHLEY ALDER RATLIFF
P O BOX 1506
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

SITE NUMBER:
KY036

POD NUMBER:	20-65922
DRAWN BY:	JRS
CHECKED BY:	MEP
SURVEY DATE:	7.21.20
PLAT DATE:	8.3.20

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

SHEET NUMBER: (6 pages)
B-1.4

LEGAL DESCRIPTIONS

PROPOSED LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO MATTHEW RATLIFF & ASHLEY ALDER RATLIFF AS RECORDED IN THE OFFICE OF THE CLERK OF WHITLEY COUNTY, KENTUCKY AS DEED BOOK 470, PAGE 658, PARCEL ID: 045-00-00-029.02, 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 JULY 21, 2020.

COMMENCING AT A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989" IN THE SOUTHERN MOST CORNER OF THE PROPERTY CONVEYED TO MATTHEW RATLIFF & ASHLEY ALDER RATLIFF AS RECORDED IN DEED BOOK 470, PAGE 658, PARCEL ID: 045-00-00-029.02 AND BEING A CORNER OF THE PROPERTY CONVEYED TO PAUL & DELORES ROWE AS RECORDED IN DEED BOOK 417, PAGE 227, PARCEL ID: 046-00-00-001.00; FOR REFERENCE, SAID REBAR IS S44°44'42"E 37.57', THENCE S41°14'10"E 379.31', THENCE S24°45'01"E 226.52' FROM A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989" IN THE WESTERN MOST CORNER OF SAID RATLIFF CORNER AND THE NORTHERN MOST CORNER OF SAID ROWE PROPERTY; THENCE TRAVERSING SAID RATLIFF PROPERTY N45°19'33"E 783.06' TO A SET 1/2" REBAR, 18" LONG, CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC" AT THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA AND SAID SET IPC BEING **THE TRUE POINT OF BEGINNING**; THENCE N90°00'00"W 100.00' TO A SET IPC; THENCE N00°00'00"W 100.00' TO A SET IPC; THENCE N90°00'00"E 100.00' TO A SET IPC; THENCE S00°00'00"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JULY 21, 2020.

PROPOSED 30' ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' ACCESS & UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO THE PROPERTY CONVEYED TO MATTHEW RATLIFF & ASHLEY ALDER RATLIFF AS RECORDED IN THE OFFICE OF THE CLERK OF WHITLEY COUNTY, KENTUCKY AS DEED BOOK 470, PAGE 658, PARCEL ID: 045-00-00-029.02, 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 JULY 21, 2020.

COMMENCING AT A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989" IN THE SOUTHERN MOST CORNER OF THE PROPERTY CONVEYED TO MATTHEW RATLIFF & ASHLEY ALDER RATLIFF AS RECORDED IN DEED BOOK 470, PAGE 658, PARCEL ID: 045-00-00-029.02 AND BEING A CORNER OF THE PROPERTY CONVEYED TO PAUL & DELORES ROWE AS RECORDED IN DEED BOOK 417, PAGE 227, PARCEL ID: 046-00-00-001.00; FOR REFERENCE, SAID REBAR IS S44°44'42"E 37.57', THENCE S41°14'10"E 379.31', THENCE S24°45'01"E 226.52' FROM A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989" IN THE WESTERN MOST CORNER OF SAID RATLIFF CORNER AND THE NORTHERN MOST CORNER OF SAID ROWE PROPERTY; THENCE TRAVERSING SAID RATLIFF PROPERTY N45°19'33"E 783.06' TO A SET 1/2" REBAR, 18" LONG, CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC" AT THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA AND SAID SET IPC BEING **THE TRUE POINT OF BEGINNING**; THENCE N00°00'00"W 100.00'; THENCE N90°00'00"E 30.00'; THENCE S00°00'00"E 12.23'; THENCE N66°34'42"E 83.71'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 58.43', ARC LENGTH OF 71.65', THE CHORD OF WHICH BEARS N31°27'11"E 67.24'; THENCE N03°40'20"W 42.70'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 35.00', ARC LENGTH OF 13.50', THE CHORD OF WHICH BEARS N14°43'09"W 13.41'; THENCE N25°45'57"W 133.42'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 165.00', ARC LENGTH OF 42.57', THE CHORD OF WHICH BEARS N18°22'30"W 42.45'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 54.17', ARC LENGTH OF 69.35', THE CHORD OF WHICH BEARS N47°39'36"W 64.71'; THENCE N84°20'09"W 20.88'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 76.41', ARC LENGTH OF 61.49', THE CHORD OF WHICH BEARS N61°16'57"W 59.84'; THENCE N38°13'45"W 31.73'; THENCE N46°54'54"W 48.49'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.65', ARC LENGTH OF 50.84', THE CHORD OF WHICH BEARS N24°43'45"W 49.58'; THENCE N02°32'36"W 110.92'; THENCE N08°20'06"W 107.73'; THENCE N56°11'37"W 39.63'; THENCE N27°47'35"W 73.89'; THENCE N09°38'49"E 160.06'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 113.17', ARC LENGTH OF 64.86', THE CHORD OF WHICH BEARS N26°03'56"E 63.98'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 385.00', ARC LENGTH OF 89.76', THE CHORD OF WHICH BEARS N35°48'18"E 89.56'; THENCE N29°07'33"E 30.90'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 35.00', ARC LENGTH OF 37.32', THE CHORD OF WHICH BEARS N01°25'03"W 35.57'; THENCE N31°57'40"W 29.57'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 65.00', ARC LENGTH OF 55.28', THE CHORD OF WHICH BEARS N56°19'24"W 53.63'; THENCE N80°41'09"W 26.16'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 85.00', ARC LENGTH OF 58.86', THE CHORD OF WHICH BEARS S79°28'33"W 57.69'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE RIGHT HAVING A RADIUS OF 150.09', ARC LENGTH OF 184.02', THE CHORD OF WHICH BEARS N85°14'19"W 172.71'; THENCE N50°06'53"W 102.80'; THENCE N43°42'19"W 297.69'; THENCE N32°51'27"W 386.94' TO A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989" IN THE SOUTH RIGHT OF WAY LINE OF KENTUCKY HIGHWAY 92 (PER COMMONWEALTH OF KENTUCKY STATE HIGHWAY DEPARTMENT - PLAN AND PROFILE OF PROPOSED STATE HIGHWAY - MCCREARY-WHITLEY COUNTIES STATE PROJECT # 681, SEC A-G); THENCE ALONG SAID SOUTH RIGHT OF WAY N56°08'05"E 30.00'; THENCE LEAVING SAID SOUTH RIGHT OF WAY LINE OF KENTUCKY HIGHWAY 92 S32°51'27"E 384.62'; THENCE S43°42'19"E 293.16'; THENCE S50°06'53"E 101.12'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 120.09', ARC LENGTH OF 147.24', THE CHORD OF WHICH BEARS S85°14'19"E 138.18'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE RIGHT HAVING A RADIUS OF 115.00', ARC LENGTH OF 79.64', THE CHORD OF WHICH BEARS N79°28'33"E 78.05'; THENCE S80°41'09"E 26.16'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 95.00', ARC LENGTH OF 80.79', THE CHORD OF WHICH BEARS S56°19'24"E 78.38'; THENCE S31°57'40"E 29.57'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.00', ARC LENGTH OF 69.30', THE CHORD OF WHICH BEARS S01°25'03"E 66.06'; THENCE S29°07'33"W 30.90'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 415.00', ARC LENGTH OF 96.76', THE CHORD OF WHICH BEARS S35°48'18"W 96.54'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 83.17', ARC LENGTH OF 47.67', THE CHORD OF WHICH BEARS S26°03'56"W 47.02'; THENCE S09°38'49"W 149.89'; THENCE S27°47'35"E 56.14'; THENCE S56°11'37"E 45.35'; THENCE S08°20'06"E 122.56'; THENCE S02°32'36"E 112.44'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 35.65', ARC LENGTH OF 27.61', THE CHORD OF WHICH BEARS S24°43'45"E 26.93'; THENCE S46°54'54"E 50.77'; THENCE S38°13'45"E 34.01'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 46.41', ARC LENGTH OF 37.35', THE CHORD OF WHICH BEARS S61°16'57"E 36.35'; THENCE S84°20'09"E 20.88'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 84.17', ARC LENGTH OF 107.75', THE CHORD OF WHICH BEARS S47°39'36"E 100.54'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 135.00', ARC LENGTH OF 34.83', THE CHORD OF WHICH BEARS S18°22'30"E 34.73'; THENCE S25°45'57"E 133.42'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.00', ARC LENGTH OF 25.06', THE CHORD OF WHICH BEARS S14°43'09"E 24.91' TO A POINT IN THE EAST LINE OF SAID RATLIFF PROPERTY; THENCE ALONG SAID EAST LINE S03°40'20"E 59.54' TO A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989", BEING A CORNER OF SAID RATLIFF PROPERTY AND OF THE PROPERTY CONVEYED TO KENNETH W MEADORS AS RECORDED IN DEED BOOK 541, PAGE 588, PARCEL ID: 046-00-00-011.00; THENCE S25°18'20"W 50.60'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 88.43', ARC LENGTH OF 40.96', THE CHORD OF WHICH BEARS S53°18'39"W 40.59'; THENCE S66°34'42"W 96.70'; THENCE S00°00'00"E 43.49' TO A POINT ON THE EAST LINE OF SAID RATLIFF PROPERTY; THENCE ALONG SAID LINE S58°55'56"W 22.45'; THENCE LEAVING SAID LINE OF RATLIFF PROPERTY N90°00'00"W 10.77' TO THE POINT OF BEGINNING CONTAINING 79,606.777 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JULY 21, 2020.

STATE OF KENTUCKY
MARK 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.

Mark Patterson 11/12/2020

MARK PATTERSON, PLS #3136 DATE

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

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
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REVISIONS

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0	11.4.20	ISSUED AS FINAL

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P O BOX 1506
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

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

SHEET NUMBER: (6 pages)
B-1.5

A1 PARCEL NO. 045-00-00-029.02
RATLIFF MATTHEW & ASHLEY
P O BOX 1506
WILLIAMSBURG, KY 40769

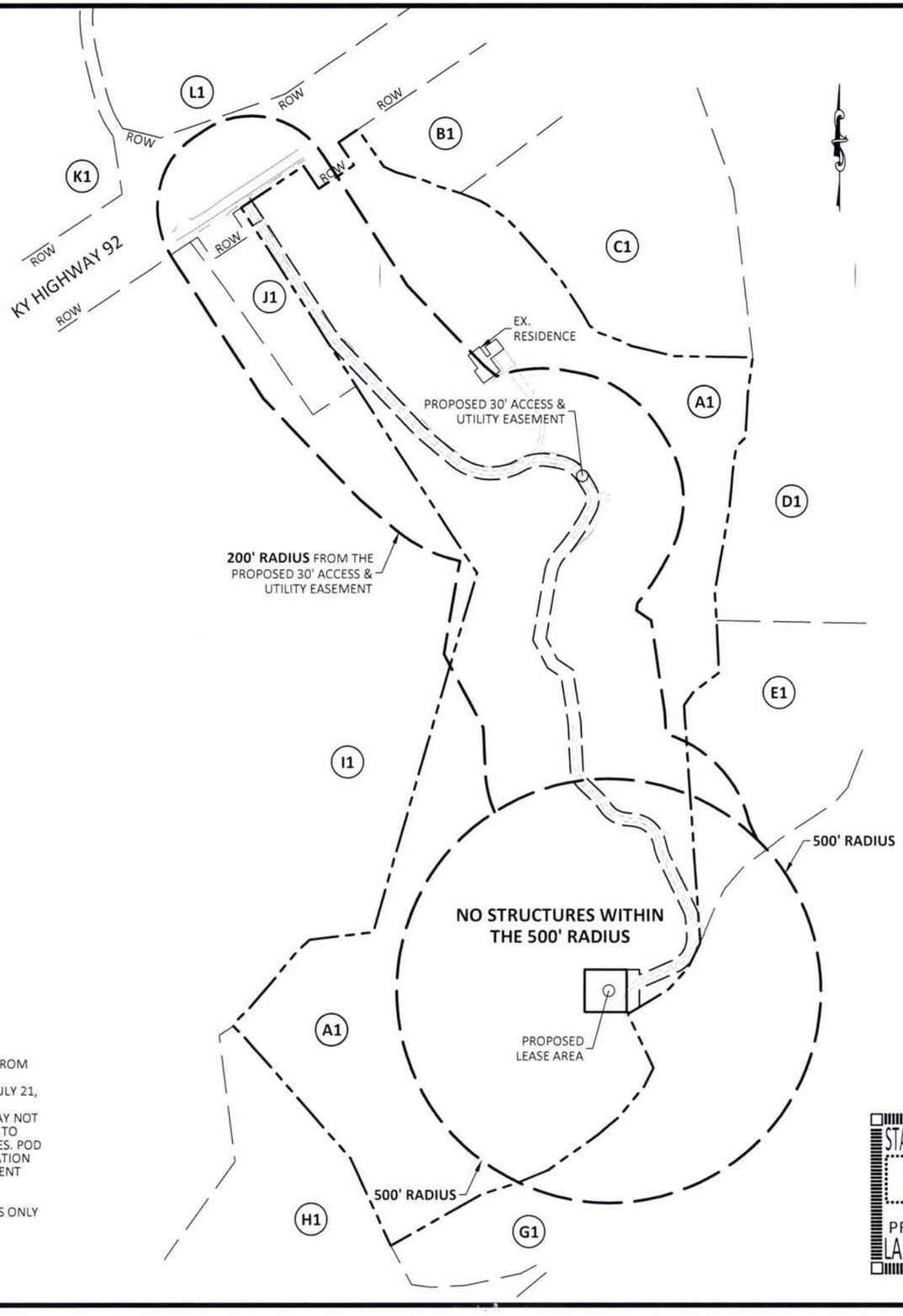
B1 PARCEL NO. 045-00-00-019.00
SNYDER DALE E & CATHY J
9305 W HWY 92
WILLIAMSBURG, KY 40769

C1 PARCEL NO. 045-00-00-022.00
LAWSON MARK
9305 W HWY 92
WILLIAMSBURG, KY 40769
PARCEL NO. 045-00-00-022.00D1
LAWSON MARK
9305 W HWY 92
WILLIAMSBURG, KY 40769

D1 PARCEL NO. 045-00-00-020.00
DAVIS KATELYN E & CLINT D
153 JELLICO CRK RD
WILLIAMSBURG, KY 40769

E1 PARCEL NO. 045-00-00-027.00
LAY LANSFORD H JR & PATRICIA
185 JELLICO CRK RD
WILLIAMSBURG, KY 40769

G1 PARCEL NO. 046-00-00-011.00
MEADORS KENNETH W
157 RYANS CRK RD
WILLIAMSBURG, KY 40769
PARCEL NO. 046-00-00-011.00H1
STEPHENS JESS
390 RYANS CRK RD
WILLIAMSBURG, KY 40769
PARCEL NO. 046-00-00-011.00M1
MEADORS KENNETH W
61 RYANS CRK RD
WILLIAMSBURG, KY 40769



H1 PARCEL NO. 046-00-00-001.00
ROWE PAUL & DELORES
9589 W HWY 92
WILLIAMSBURG, KY 40769

I1 PARCEL NO. 029-00-00-015.00
ROWE PAUL & DELORES
9589 W HWY 92
WILLIAMSBURG, KY 40769
PARCEL NO. 029-00-00-015.00M1
PETREY DARRELL & PATRICIA
9758 W HWY 92
WILLIAMSBURG, KY 40769

J1 PARCEL NO. 045-00-00-028.00
ROWE PAUL & DELORES
9589 W HWY 92
WILLIAMSBURG, KY 40769

K1 PARCEL NO. 045-00-00-030.00
ROWE PAUL & DELORES
9589 W HWY 92
WILLIAMSBURG, KY 40769

L1 PARCEL NO. 045-00-00-029.00
HATLAND CONNIE
1726 N 4101ST RD
LELAND, IL 60531
PARCEL NO. 045-00-00-029.00M1
HAMLIN MIKE
C/O RUTH HAMLIN
533 BECKS CRK RD
WILLIAMSBURG, KY 40769

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

0' 300' 600'
1 INCH = 300 FEET

GENERAL NOTE:

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE WHITLEY COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON JULY 21, 2020 AND RE-VERIFIED ON NOVEMBER 3, 2020. 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.

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

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 11/12/2020
MARK PATTERSON, PLS #3136 DATE

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

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

REVISIONS

REV.	DATE	DESCRIPTION
0	11.3.20	ISSUED AS FINAL
1	11.11.20	OLC COMMENTS

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBERS:
045-00-00-029.02

PROPERTY OWNER:
MATTHEW RATLIFF &
ASHLEY ALDER RATLIFF
P O BOX 1506
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

SITE NUMBER:
KY036

POD NUMBER:	20-71225
DRAWN BY:	DAP
CHECKED BY:	MEP
SURVEY DATE:	7.21.20
PLAT DATE:	11.3.20

SHEET TITLE:
500' RADIUS AND ABUTTERS MAP

SHEET NUMBER: (1 page)
B-2

NOTES:

THE CONTRACTOR MUST PROVIDE CLOSE-OUT DOCUMENTS AT THE FINAL INSPECTION WALK BEFORE PAYMENTS WILL BE MADE.

GENERAL REQUIREMENTS:

1. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS. ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY. SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK. THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.
2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONTRACT DOCUMENTS, THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND/OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.
3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) AT&T'S REPRESENTATIVE OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK.
4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.
5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK AND FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT.
6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT.
7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS OTHERWISE NOTED OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.
8. THE CONTRACTOR SHALL MAINTAIN A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE, UPDATED WITH THE LATEST REVISIONS AND ADDENDUMS OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.
9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES, AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS WHICH MAY BE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY OR LOCAL GOVERNMENT AUTHORITY.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC., DURING SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY.
12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS/RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY.
13. THE CONTRACTOR SHALL COMPLY WITH ALL PERTINENT SECTIONS OF THE APPLICABLE BUILDING CODES AND ALL OSHA REQUIREMENTS AS THEY APPLY TO THIS PROJECT.
14. THE CONTRACTOR SHALL NOTIFY AT&T'S REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS. THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL THAT CONFLICT IS RESOLVED BY AT&T'S REPRESENTATIVE.
15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS.
16. THE CONTRACTOR SHALL NOTIFY THE RF ENGINEER FOR ANTENNA AZIMUTH VERIFICATION (DURING ANTENNA INSTALLATION) PRIOR TO COORDINATING SITE SWEEPING.
17. THE CONTRACTOR SHALL SUBMIT, AT THE END OF THE PROJECT, A COMPLETE SET OF AS-BUILT DRAWINGS TO AT&T'S PROJECT MANAGER.

SITE WORK AND DRAINAGE

EARTHWORK, EXCAVATION AND GRADING

PART 1 GENERAL

1.01 WORK INCLUDED: REFER TO SURVEY AND SITE PLAN FOR WORK INCLUDED.

1.02 RELATED WORK

A. CONSTRUCTION OF EQUIPMENT FOUNDATIONS
B. INSTALLATION OF ANTENNA SYSTEM
C. SITE PREPARATION

1.03 DESCRIPTIONS

A. ACCESS ROAD, TURNAROUND AREAS AND SITES ARE CONSTRUCTED TO PROVIDE A WELL DRAINED, EASILY MAINTAINED, EVEN SURFACE FOR MATERIAL AND EQUIPMENT DELIVERIES AND MAINTENANCE PERSONNEL ACCESS.

1.04 QUALITY ASSURANCE

A. APPLY SOIL STERILIZER IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION (USE AS NEEDED)
B. VEGETATION LANDSCAPING, IF INCLUDED WITHIN THE CONTRACT WILL BE PLACED AND MAINTAINED AS RECOMMENDED BY NURSERY INDUSTRY STANDARDS.

1.05 SEQUENCING

A. CONTRACTOR IS RESPONSIBLE FOR LAYOUT AND CONSTRUCTION STAKING.
B. GRUB THE COMPLETE ROAD AND SITE AREA PRIOR TO FOUNDATION CONSTRUCTION OR PLACEMENT OF BACK FILL OR SUB-BASE MATERIAL.
C. CONSTRUCT TEMPORARY CONSTRUCTION ZONE ALONG ACCESS DRIVE.
D. THE SITE AREA WILL BE BROUGHT TO SUB-BASE COURSE ELEVATION AND THE ACCESS ROAD TO BASE COURSE ELEVATION PRIOR TO FORMING FOUNDATIONS.
E. APPLY SILT STERILIZER PRIOR TO PLACING BASE MATERIALS.
F. IF REQUIRED, GRADE, SEED, FERTILIZE AND MULCH DISTURBED AREAS IMMEDIATELY AFTER BRINGING THE SITE AND ACCESS ROAD TO BASE ELEVATION. WATER TO ENSURE GROWTH.
G. REMOVE EXCESS GRAVEL FROM TEMPORARY CONSTRUCTION ZONE.
H. AFTER APPLICATIONS OF FINAL SURFACES, APPLY SOIL STERILIZER TO THE STONE SURFACES.

1.06 SUBMITTALS

A. BEFORE CONSTRUCTION

1. IF LANDSCAPING IS APPLICABLE TO THE CONTRACT, SUBMIT TWO COPIES OF THE LANDSCAPING PLAN UNDER NURSERY LETTERHEAD. IF A LANDSCAPE ALLOWANCE IS INCLUDED IN THE CONTRACT, PROVIDE AN ITEMIZED LISTING OF PROPOSED COSTS UNDER NURSERY LETTERHEAD (REFER TO SITE PLAN FOR LANDSCAPING REQUIREMENT).
2. SUBMIT FOR APPROVAL, 1/2 CUBIC FOOT OF THE PROPOSED SURFACE COURSE MATERIAL.
3. LANDSCAPING WARRANTY STATEMENT, IF REQUIRED.

PART 2 PRODUCTS

2.01 MATERIALS

A. ROAD AND SITE MATERIALS: FILL MATERIAL SHALL BE ACCEPTABLE, SELECT FILL AND SHALL BE IN ACCORDANCE WITH LOCAL DEPARTMENT OF HIGHWAY AND PUBLIC TRANSPORTATION STANDARD SPECIFICATIONS.
B. SOIL STERILIZER SHALL BE EPA REGISTERED OF LIQUID COMPOSITION AND OF PRE-EMERGENCE DESIGN.
C. SOIL STABILIZER FABRIC SHALL BE MIRAFI OR EQUAL - 500% AT ACCESS ROAD AND SOAK AT COMPOUND.
D. GRAVEL FILL: WELL GRADED, HARD, DURABLE, NATURAL SAND AND GRAVEL, FREE FROM ICE AND SNOW, ROOTS, SOD RUBBISH, AND OTHER DELETERIOUS OR ORGANIC MATTER. MATERIAL SHALL CONFORM TO THE FOLLOWING GRADATION REQUIREMENTS:

U.S. SIEVE NO.	PASSING BY WEIGHT
4"	100
1/2"	50-85
#4	40-75
#10	30-60
#40	10-30
#100	5-20
#200	0-5

GRAVEL FILL TO BE PLACED IN LIFTS OF 9" MAXIMUM THICKNESS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

2.02 EQUIPMENT

A. COMPACTION SHALL BE ACCOMPLISHED BY MECHANICAL MEANS. LARGER AREAS SHALL BE COMPACTED BY SHEEP'S FOOT, VIBRATORY OR RUBBER TIED ROLLERS WEIGHING AT LEAST 5 TONS. SMALLER AREAS SHALL BE COMPACTED BY POWER-DRIVER, HAND-HELD TAMPER.
B. PRIOR TO OTHER EXCAVATION AND CONSTRUCTION EFFORTS, GRUB ORGANIC MATERIAL TO A MINIMUM OF 6" BELOW ORIGINAL GROUND LEVEL.
C. UNLESS OTHERWISE INSTRUCTED BY AT&T, REMOVE TREES, BRUSH AND DEBRIS FROM THE PROPERTY TO AN AUTHORIZED DISPOSAL LOCATION.
D. PRIOR TO PLACEMENT OF FILL OR BASE MATERIALS, ROLL THE SOIL.
E. WHERE UNSTABLE CONDITIONS ARE ENCOUNTERED, LINE THE RUBBED AREAS WITH STABILIZER MAT PRIOR TO PLACEMENT OF FILL OR BASE MATERIAL.

PART 3 EXECUTION

3.30 INSTALLATION

A. THE SITE AND TURNAROUND SHALL BE AT THE SUB-BASE COURSE ELEVATION PRIOR TO FORMING FOUNDATIONS. GRADE OR FILL THE SITE AND ACCESS ROAD AS REQUIRED TO PRODUCE EVEN DISTRIBUTION OF SPOILS RESULTING FROM FOUNDATION EXCAVATIONS. THE RESULTING GRADE SHALL CORRESPOND WITH SAID SUB-BASE COURSE. ELEVATIONS ARE TO BE CALCULATED FROM FINISHED GRADES OR SLOPES INDICATED.
B. CLEAR EXCESS SPOILS, IF ANY, FROM JOB SITE AND DO NOT SPREAD BEYOND THE LIMITS OF AT&T LEASE PROPERTY UNLESS AUTHORIZED BY PROJECT MANAGER.
C. THE ACCESS ROAD SHALL BE BROUGHT TO BASE COURSE ELEVATION PRIOR TO FOUNDATION CONSTRUCTION.
D. DO NOT CREATE DEPRESSIONS WHERE WATER MAY POND.
E. THE CONTRACT INCLUDES ALL NECESSARY GRADING, BANKING, DITCHING AND COMPLETE SURFACE COURSE FOR ACCESS ROAD. ALL ROADS OR ROUTES UTILIZED FOR ACCESS TO PUBLIC THOROUGHFARE ARE INCLUDED SCOPE OF WORK UNLESS OTHERWISE INDICATED.
F. WHEN IMPROVING AN EXISTING ACCESS ROAD, GRADE THE EXISTING ROAD TO REMOVE ANY ORGANIC MATTER AND THEN SMOOTH SURFACE BEFORE PLACING FILL OR STONE.
G. PLACE FILL OR STONE IN 6" MAXIMUM LIFTS AND COMPACT BEFORE PLACING NEXT LIFT.
H. THE FINISH GRADE, INCLUDING TOP SURFACE COURSE SHALL EXTEND A MINIMUM OF 12" BEYOND THE SITE FENCE AND SHALL COVER THE AREA AS INDICATED.
I. RIPRAP SHALL BE APPLIED TO THE SIDE SLOPES OF ALL FENCED AREAS, PARKING AREAS AND TO ALL OTHER SLOPES GREATER THAN 2:1.
J. RIPRAP SHALL BE APPLIED TO THE SIDES OF DITCHES OR DRAINAGE SWALES AS INDICATED ON PLANS.
K. RIPRAP ENTIRE DITCH FOR 6'-0" IN ALL DIRECTIONS AT CULVERT OPENINGS.
L. SEED, FERTILIZER AND STRAW COVER SHALL BE APPLIED TO ALL OTHER DISTURBED AREAS AND DITCHES, DRAINAGE SWALES, NOT OTHERWISE RIPRAPPED.
M. UNDER NO CIRCUMSTANCES SHALL DITCHES, SWALES OR CULVERTS BE PLACED SO THEY DIRECT WATER TOWARDS OR PERMIT STANDING WATER IMMEDIATELY ADJACENT TO SITE. IF OWNER DESIGNS OR IF DESIGN ELEVATIONS CONFLICT WITH THIS GUIDANCE, ADVISE THE OWNER IMMEDIATELY.
N. IF A DITCH LIES WITH SLOPES GREATER THAN TEN PERCENT, MOUNT DIVERSIONARY HEADWALLS IN THE DITCH FOR 6'-0" ABOVE THE CULVERT ENTRANCE.
O. SEED AND FERTILIZER SHALL BE APPLIED TO SURFACE CONDITIONS WHICH WILL ENCOURAGE ROOTING. RAKE AREAS TO BE SEEDED TO EVEN THE SURFACE AND TO LOOSEN THE SOIL.
P. SOW SEEDS IN TWO DIRECTIONS IN TWICE THE QUANTITY RECOMMENDED BY THE SEED PRODUCER.
Q. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE GROWTH OF SEEDED AND LANDSCAPED AREAS BY WATERING TO THE POINT OF RELEASE FROM THE CONTRACT. CONTINUE TO REWORK BARE AREAS UNTIL COMPLETE COVERAGE IS OBTAINED.

3.04 FIELD QUALITY CONTROL

A. COMPACTION SHALL BE 90% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH ASTM D-1557 FOR SITE WORK AND 95% STANDARD PROCTOR DENSITY UNDER SLAB AREAS. AREAS OF SETTLEMENT WILL BE EXCAVATED AND REFILLED AT CONTRACTOR'S EXPENSE.

3.05 PROTECTION

A. PROTECT SEEDED AREAS FROM EROSION BY SPREADING STRAW TO A UNIFORM LOOSE DEPTH OF 1"-2". STAKE AND TIE DOWN AS REQUIRED. USE OF EROSION CONTROL MESH OR MULCH NET SHALL BE AN ACCEPTABLE ALTERNATIVE.
B. ALL TREES PLACED IN CONJUNCTION WITH A LANDSCAPE CONTRACT SHALL BE WRAPPED/TIED WITH HOSE PROTECTED WIRE AND SECURED TO STAKES EXTENDING 2'-0" INTO THE GROUND ON FOUR SIDES OF THE TREE.
C. ALL EXPOSED AREAS SHALL BE PROTECTED AGAINST WASHOUTS AND SOIL EROSION. STRAW BALES SHALL BE PLACED AT THE INLET APPROACH TO ALL NEW OR EXISTING CULVERTS.

EROSION AND SEDIMENT CONTROL NOTES:

1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE EPA "STORMWATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES" MANUAL, (LATEST EDITION).
2. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP OF CLEARING. ADD MEASURES AS NECESSARY AS DISTURBANCES INCREASE AS PART OF THE PHASED CONSTRUCTION.
3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN, ALONG WITH THE APPROVED NOTICE OF INTENT AND STORMWATER POLLUTION PREVENTION PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
4. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
5. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
6. ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES FINAL STABILIZATION IS ACHIEVED.
7. DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
8. CONSTRUCTION SHALL BE SEQUENCED TO MINIMIZE EXPOSURE TIME OF CLEARED SURFACE AREA. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND FUNCTIONAL PRIOR TO EARTH MOVING OPERATIONS. ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY, AND AT MAXIMUM 14 CALENDAR DAYS IN DRY PERIODS AND WITHIN 24 HOURS AFTER ANY RAINFALL EXCEEDING 0.5 INCH WITHIN A 24 HOUR PERIOD.
9. THE CONTRACTOR SHALL DESIGNATE IN WRITING THE NAME AND PHONE NUMBER OF THE INDIVIDUAL RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS.
10. PRE-CONSTRUCTION VEGETATIVE GROUND COVER SHALL NOT BE REMOVED MORE THAN 20 CALENDAR DAYS PRIOR TO GRADING. ALL GRADED AREAS EXPECTED TO REMAIN UNFINISHED FOR MORE THAN 30 CALENDAR DAYS SHALL BE COVERED WITH TEMPORARY GRASS, SOD, STRAW, MULCH OR FABRIC MATS. PERMANENT SOIL STABILIZATION SHALL BE INSTALLED WITHIN 15 CALENDAR DAYS OF FINAL GRADING.
11. THE CONTRACTOR SHALL MAINTAIN RECORDS OF EROSION CONTROL INSPECTIONS AND REPAIRS FOR A MINIMUM OF 3 YEARS AFTER CONSTRUCTION COMPLETION.
12. MULCHING SHALL CONSIST OF LOOSE HAY OR STRAW APPLIED AT THE RATE OF 2 TONS/ACRE.
13. THE CONTRACTOR SHALL REMOVE SEDIMENT FROM TRAPS, SILT FENCES, SEDIMENT PONDS, ETC. AS NECESSARY AND WHEN CAPACITY HAS BEEN REDUCED BY 50%.
14. STOCKPILES SHALL BE STABILIZED AND PROTECTED FROM EROSION.

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Diamond Communications LLC

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at&t

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

11/12/2020

EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION
A	10.08.20	ISSUED FOR REVIEW
B	10.29.20	CLIENT COMMENTS
C	10.30.20	CLIENT COMMENTS
D	11.10.20	STARTING ADDRESS
E	11.12.20	ISSUED FOR ZONING

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

FA NUMBER:
13800691

POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
GENERAL NOTES & SPECIFICATIONS

SHEET NUMBER:
GN-1

SPECIAL CONSTRUCTION — ANTENNA INSTALLATION

PART 1 GENERAL

1.01 CODES REQUIREMENTS

A. INSTALL ANTENNA, COAXIAL CABLES, TMA'S, GROUNDING SYSTEM, AND ALL OTHER EQUIPMENT SHOWN ON THESE DRAWINGS OR THE AT&T RF DESIGN IN ACCORDANCE WITH DRAWINGS AND SPECIFICATIONS IN EFFECT AT THE PROJECT LOCATION AND RECOMMENDATIONS OF STATE AND LOCAL BUILDING CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK. THESE CODES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:

1. EIA — ELECTRONIC INDUSTRIES ASSOCIATION RS-22. STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES.
2. FAA — FEDERAL AVIATION ADMINISTRATION ADVISORY CIRCULAR AC 70/7480—IH, CONSTRUCTION MARKING AND LIGHTING.
3. FCC — FEDERAL COMMUNICATION COMMISSION RULES AND REGULATIONS FORM 715, OBSTRUCTION MARKING AND LIGHTING SPECIFICATION FOR ANTENNA STRUCTURES.
4. AISC — AMERICAN INSTITUTE OF STEEL CONSTRUCTION FOR STRUCTURAL JOINTS USING ASTM 1325 OR A490 BOLTS.
5. NEC — NATIONAL ELECTRIC CODE — ON TOWER LIGHTING KITS.
6. UL — UNDERWRITER'S LABORATORIES APPROVED ELECTRICAL PRODUCTS.
7. IN ALL CASES, PART 77 OF THE FAA RULES AND PARTS 17 AND 22 OR THE FCC RULES ARE APPLICABLE AND IN THE EVENT OF CONFLICT, SUPERSEDE ANY OTHER STANDARDS OR SPECIFICATIONS.
8. LIFE SAFETY CODE NFPA, LATEST EDITION.

1.02 WORK INCLUDED

A. INSTALLATION OF GALVANIZED STEEL ANTENNA MOUNTS AS INDICATED ON DRAWINGS.
B. INSTALLATION OF GALVANIZED STEEL CABLE LADDER AS INDICATED ON DRAWINGS.
C. INSTALLATION OF ALL ANTENNAS, TMA'S, COAXIAL CABLES, AND OTHER EQUIPMENT AS SPECIFIED ON THE AT&T RF DESIGN.
D. INSTALLATION OF PROPER GROUNDING FOR LINES, ANTENNAS AND OTHER NEW EQUIPMENT.
E. TESTING OF ALL LINES, ANTENNAS, AND OTHER EQUIPMENT PER AT&T SPECIFICATIONS.
F. DAILY CLEAN UP AND REMOVAL OF ALL DEBRIS, EXCESS MATERIALS, AND TRASH FROM THE SITE.
G. RELATED WORK
   1. FURNISH THE FOLLOWING WORK AS SPECIFIED IN CONSTRUCTION DOCUMENTS, BUT COORDINATE WITH OTHER TRADES PRIOR TO BID:
      a. FLASHING OF OPENINGS INTO OUTSIDE WALLS.
      b. SEALING AND CAULKING ALL OPENINGS.
      c. PAINTING.
      d. CUTTING AND PATCHING.

1.03 GENERAL

A. NO WORK SHALL BE PERFORMED ON THE SITE BY THE CONTRACTOR WITHOUT A FINAL RE CONFIGURATION SHEET.
B. CONTRACTOR IS RESPONSIBLE TO REVIEW AND ADHERE TO RF EXPOSURE OCCUPATIONAL M.O.P. PROVIDED BY OWNER.

PART 2 PRODUCTS

2.01 EQUIPMENT

A. UNLESS SPECIFIED OTHERWISE BY OWNER, ANTENNAS, COAXIAL CABLES, TMA'S, JUMPERS, CONNECTORS, GROUND KITS, AND ATTACHMENT HARDWARE ARE FURNISHED BY OTHERS UNDER SEPARATE CONTRACT.
B. ALL WEATHERPROOFING TO BE SUPPLIED BY CONTRACTOR.

PART 3 EXECUTION

3.01 INSTALLATION

A. ANY EXISTING CONDITIONS THAT WOULD PREVENT THE INSTALLATION OF THE MOUNTS, COAXIAL CABLES, ANTENNAS, OR ANY OTHER EQUIPMENT TO BE INSTALLED ACCORDING TO THE SPECIFIED RE CONFIGURATION OR THAT WOULD CAUSE SHADOWING, SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER IMMEDIATELY.
B. THE CONTRACTOR SHOULD CHECK TO VERIFY THAT NO PART OF THE TOWER STRUCTURE OR OTHER OBSTRUCTIONS EXISTS WITHIN A 180 DEGREE VIEW OF THE ANTENNAS AND MOUNT.
C. INSTALL ANTENNAS AS INDICATED ON DRAWINGS AND AT&T SPECIFICATIONS.
D. INSTALL GALVANIZED STEEL ANTENNA MOUNTS.
E. INSTALL COAXIAL CABLES AND TERMINATIONS BETWEEN ANTENNAS AND EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS. WEATHERPROOF ALL CONNECTORS BETWEEN THE ANTENNA AND EQUIPMENT PER MANUFACTURER'S REQUIREMENTS. TERMINATE ALL COAXIAL CABLE THREE (3) FEET IN EXCESS OF ENTRY PORT LOCATION UNLESS OTHERWISE STATED.
F. BENDS IN COAXIAL CABLES ARE TO BE KEPT TO A MINIMUM. UNDER NO CIRCUMSTANCES SHOULD COAXIAL CABLE BE BENT TO A RADIUS LESS THAN FOLLOWS:

CABLE SIZE	MINIMUM BENDING RADIUS
1/2" SUPERFLEX	1.25"
1/2"	5"
3/8"	3.75"
5/8"	8"
7/8"	10"
1-1/4"	15"
1-5/8"	20"

G. JUMPERS SHALL BE INSTALLED WITH MINIMUM BENDS. MINIMUM BENDING RADIUS FOR 1/2" JUMPER IS 5". JUMPERS SHALL NOT BE COILED.
H. ANTENNA JUMPERS SHALL BE SUPPORTED AT MAXIMUM 3' SPACING WITH SUPPORT SUPPLIED WITHIN 18" OF EACH END OF THE JUMPER.
I. CABLES THAT EXCEED THE MINIMUM BENDING RADIUS, ARE CRUSHED, OR ARE OTHERWISE DAMAGED SHALL BE DISCARDED AND REPLACED AT CONTRACTOR'S EXPENSE.
J. DO NOT REMOVE DUST CAPS FROM CONNECTORS OF JUMPERS UNTIL CONNECTION IS READY TO BE MADE. USE CARE IN MAKING CONNECTIONS. VISUALLY INSPECT THE CENTER PIN.
K. ANTENNAS SHALL BE INSTALLED WITH DOWNTILT BRACKETS AND HEAVY DUTY CLAMPS SUPPLIED BY THE MANUFACTURER.

3.02 GROUNDING

A. ANTENNA AND COAXIAL CABLE GROUNDING:
   1. GROUNDS SHALL BE INSTALLED ON THE COAXIAL CABLE APPROXIMATELY TWO FEET ABOVE THE VERTICAL TO HORIZONTAL TRANSITION.
   2. ALL EXTERIOR #6 GREEN GROUND WIRE DAISY CHAIN CONNECTIONS TO BE WEATHER SEALED WITH APPROVED WEATHERPROOFING KIT.
   3. ALL COAXIAL CABLE GROUNDING KITS ARE TO BE INSTALLED ON STRAIGHT RUNS OF COAXIAL CABLE (NOT WITHIN BENDS).
   4. ALL COAX GROUNDS SHALL BE BONDED TO THE GROUND BAR UTILIZING TWO HOLE LUGS.
   5. ALL COAX GROUND LEADS ARE TO BE INSTALLED WITH 2" OF SLACK TO ACCOMMODATE MOVEMENT IN THE LINES.
   6. ALL COAX GROUNDS SHALL BE INSTALLED SUCH THAT THE LEADS FALL DOWNWARD TO THE CONNECTION TO THE GROUND BAR.
B. ALL ANTENNA MOUNTING PIPES TO BE BONDED TO TOWER GROUND BAR.

3.03 COLOR CODING

A. ALL JUMPERS, COAX RUNS, AND BIAS—T POWER CABLES TO HAVE COLOR CODE BANDS INSTALLED ON BOTH ENDS.
B. COLOR CODE BANDS TO BE INSTALLED UTILIZING MINIMUM THREE WRAPS OF 3M-35 TAPE. COLOR CODE BANDS ON MAIN COAX CABLES AT TOP OF TOWER TO BE INSTALLED UTILIZING MINIMUM 3" WIDE BANDS WITH MINIMUM 3/4" SPACING BETWEEN BANDS. COLOR CODE BANDS NEAR GROUND LEVEL TO BE INSTALLED UTILIZING 3/4" WIDE BANDS.
C. ON 'COMMON' ELEMENTS, THOSE CARRYING BOTH 850MHz AND 1900MHz SIGNALS, THE COLOR CODE IS TO MATCH THE 850MHz COLOR CODE (NO WHITE).

3.04 INSPECTION, TESTING, AND CLOSE OUT

A. MOUNT ORIENTATION MUST BE LESS THAN 10 DEGREES FROM THE DESIRED AZIMUTH. MOUNTS MUST NOT OVERSHADOW OR IMPEDE ANTENNAS ON OTHER SECTORS.
B. ALL ANTENNAS MUST BE WITHIN ±3 DEGREES FROM THE SPECIFIED RF CONFIGURATION. ALL ANTENNAS IN A SECTOR MUST BE WITHIN ±1 DEGREE FROM OTHER ANTENNAS IN THE SAME SECTOR.
C. EACH ANTENNA MUST HAVE THE DOWNTILT VERIFIED UTILIZING A DIGITAL LEVEL. A PHOTOGRAPH OF THE ANTENNA WITH THE LEVEL IN PLACE MUST BE TAKEN FOR EACH ANTENNA. ALL PHOTOGRAPHS MUST CLEARLY IDENTIFY THE SECTOR AND ANTENNA BEING DISPLAYED.
D. THE MODEL NUMBER OF ALL NEW AND EXISTING ANTENNAS SHALL BE PHOTOGRAPHED. THIS INFORMATION SHOULD BE RECORDED ON THE JOB CHECKLIST. ALL PHOTOGRAPHS MUST CLEARLY IDENTIFY THE SECTOR AND ANTENNA BEING DISPLAYED.
E. THE CONTRACTOR SHALL CONDUCT SWEEP TEST FOR THE COMPLETED ANTENNA SYSTEM PER AT&T REQUIREMENTS.

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11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
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at&t

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

11/12/2020
EN PERMIT: 3594

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WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

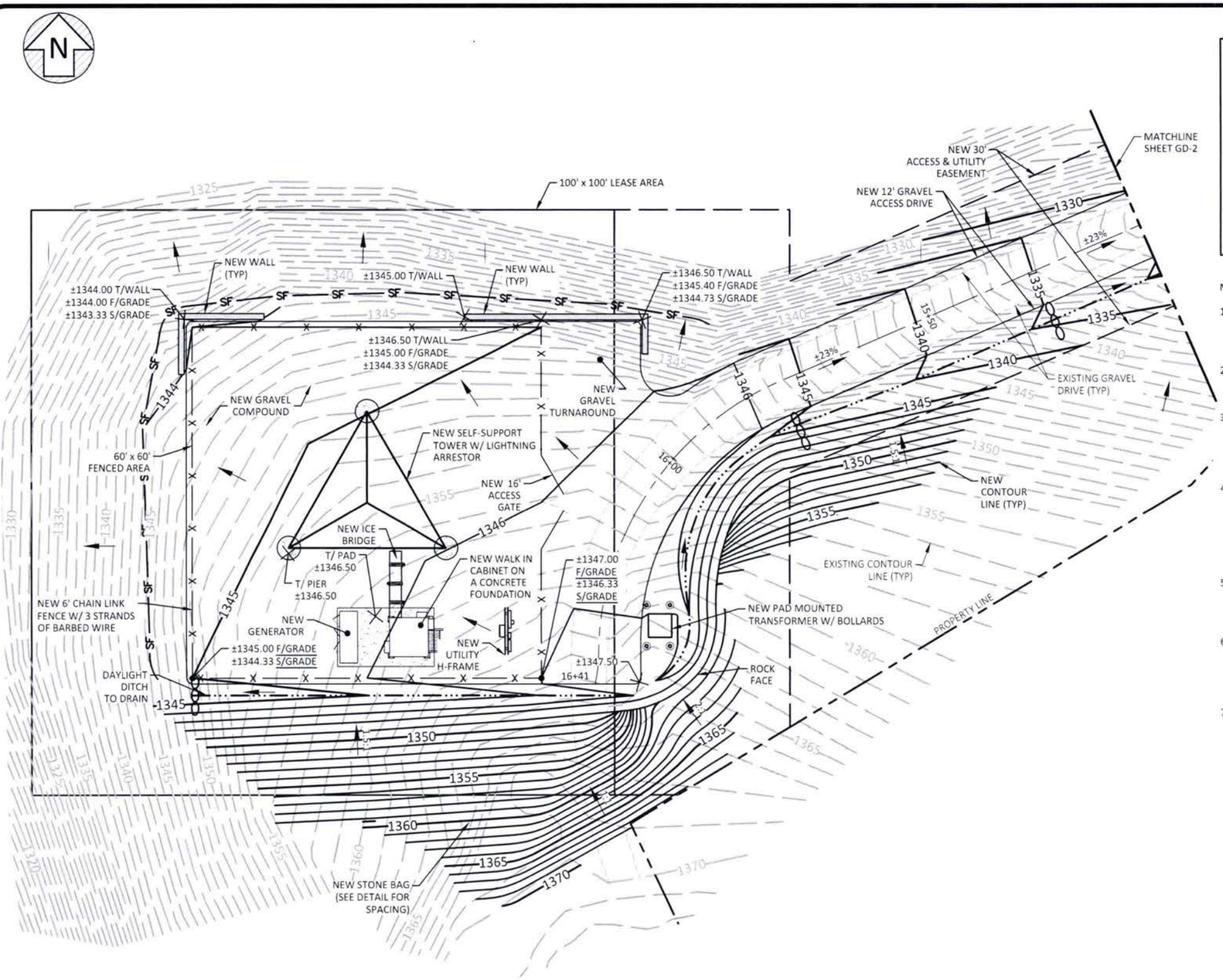
FA NUMBER:
13800691

POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
ANTENNA INSTALLATION NOTES

SHEET NUMBER:
GN-2



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+XXX.XX	NEW SPOT ELEVATION
→	NEW DRAINAGE FLOW ARROWS
770	NEW CONTOURS
770	EXISTING CONTOURS
	NEW DITCH
	EXISTING PROPERTY LINE
SF SF	NEW SILT FENCE
	ACCESS & UTILITY EASEMENT
X X	NEW FENCE
	NEW CENTERLINE

0' 20' 40'
1"= 20'

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SITE GRADING PLAN

SHEET NUMBER:
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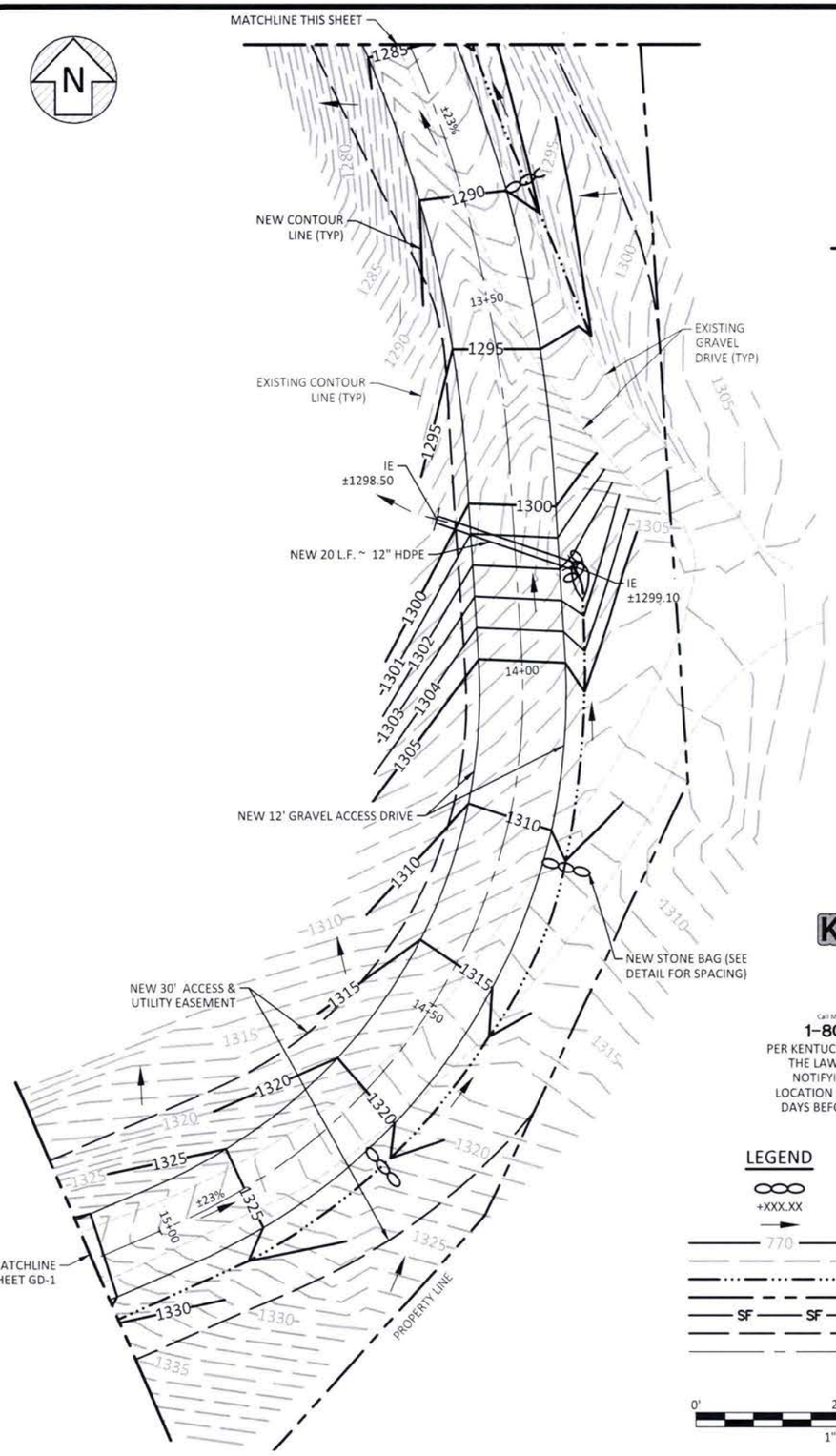

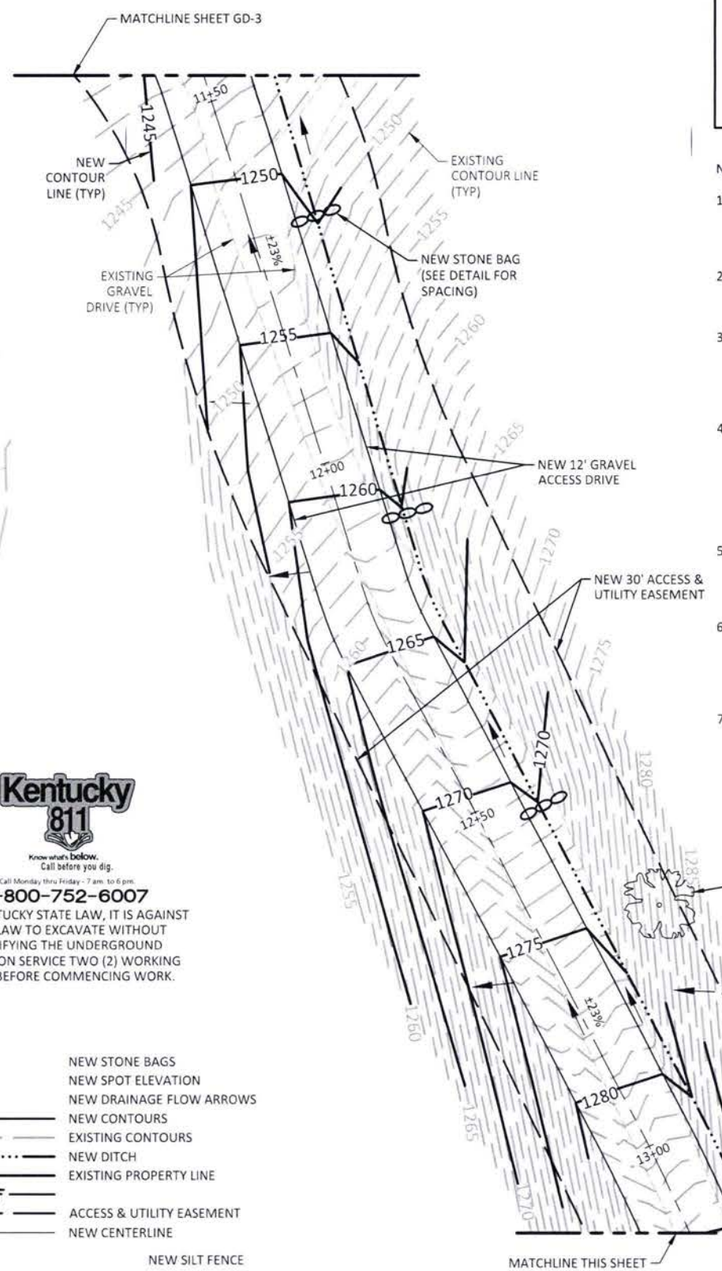

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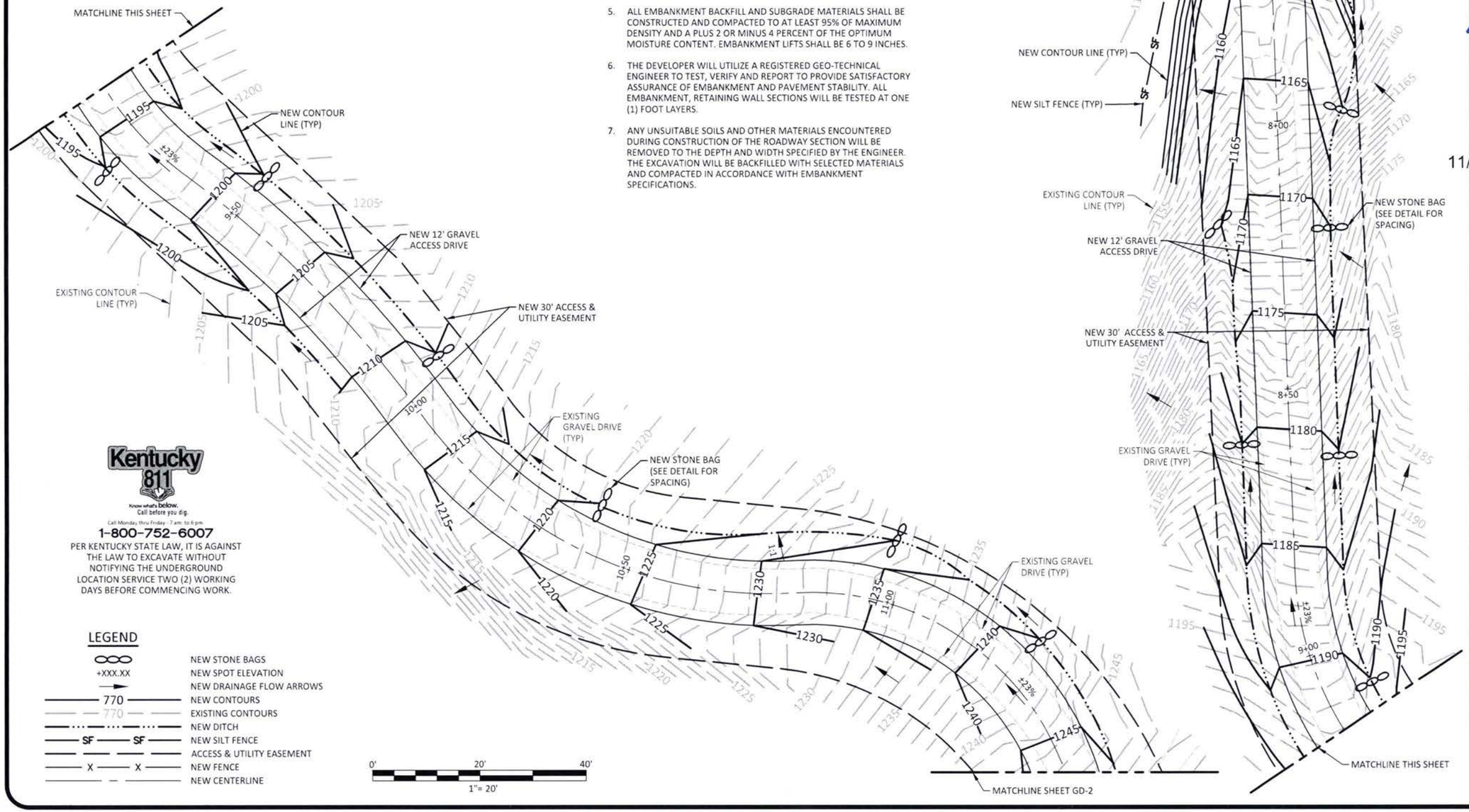

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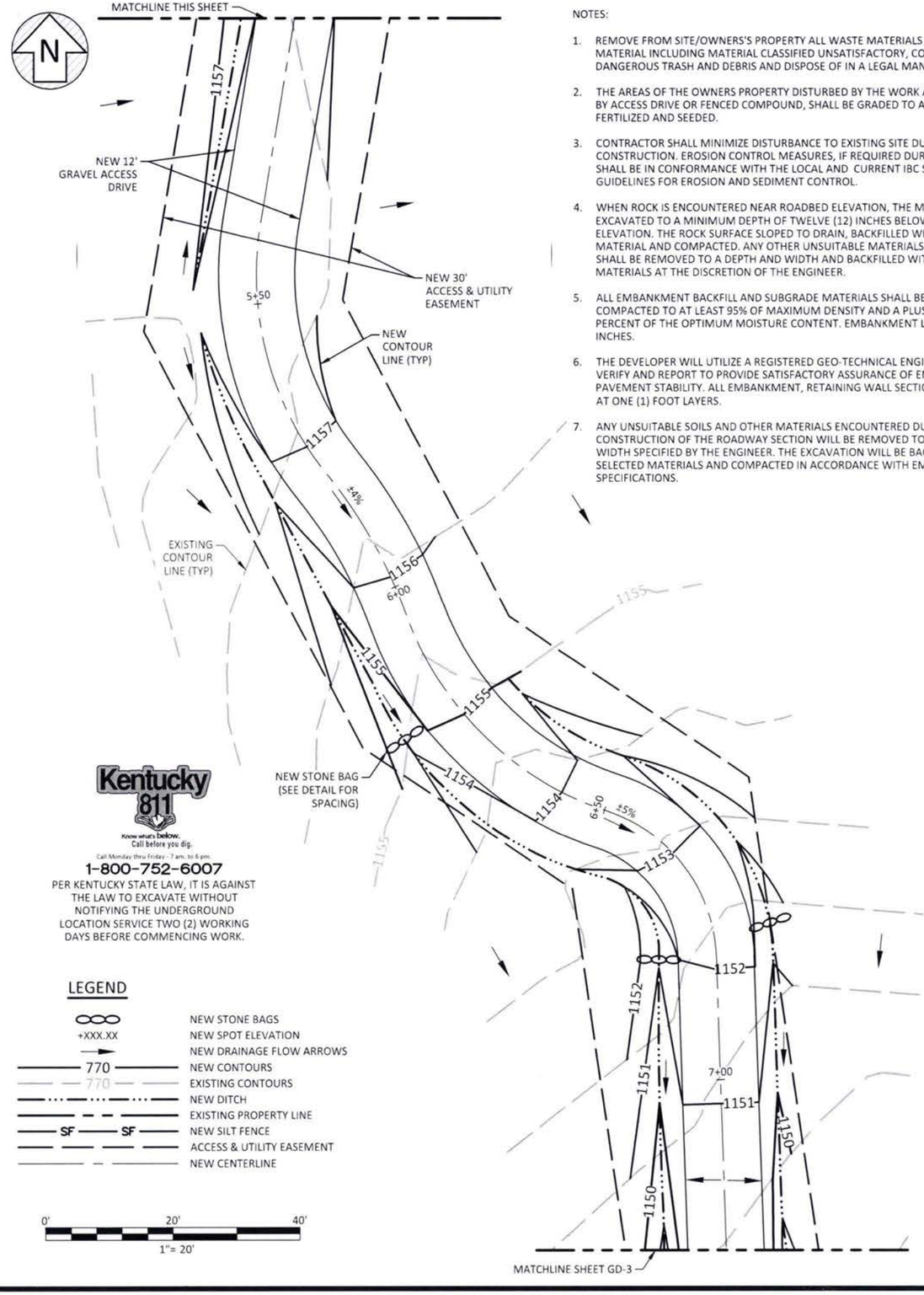

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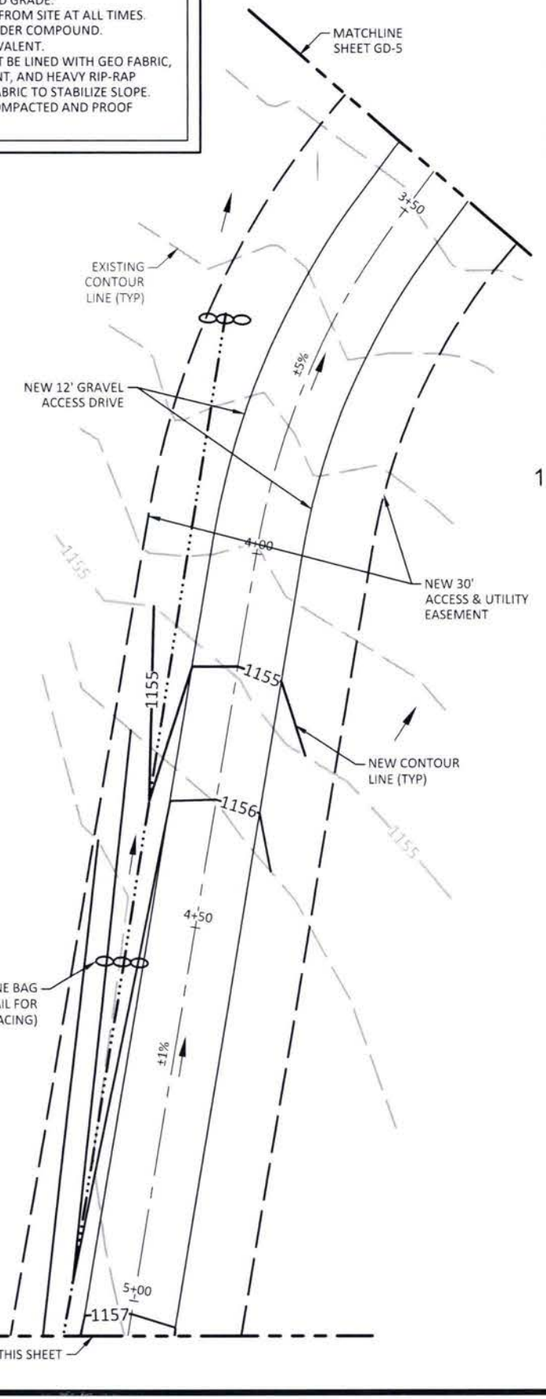

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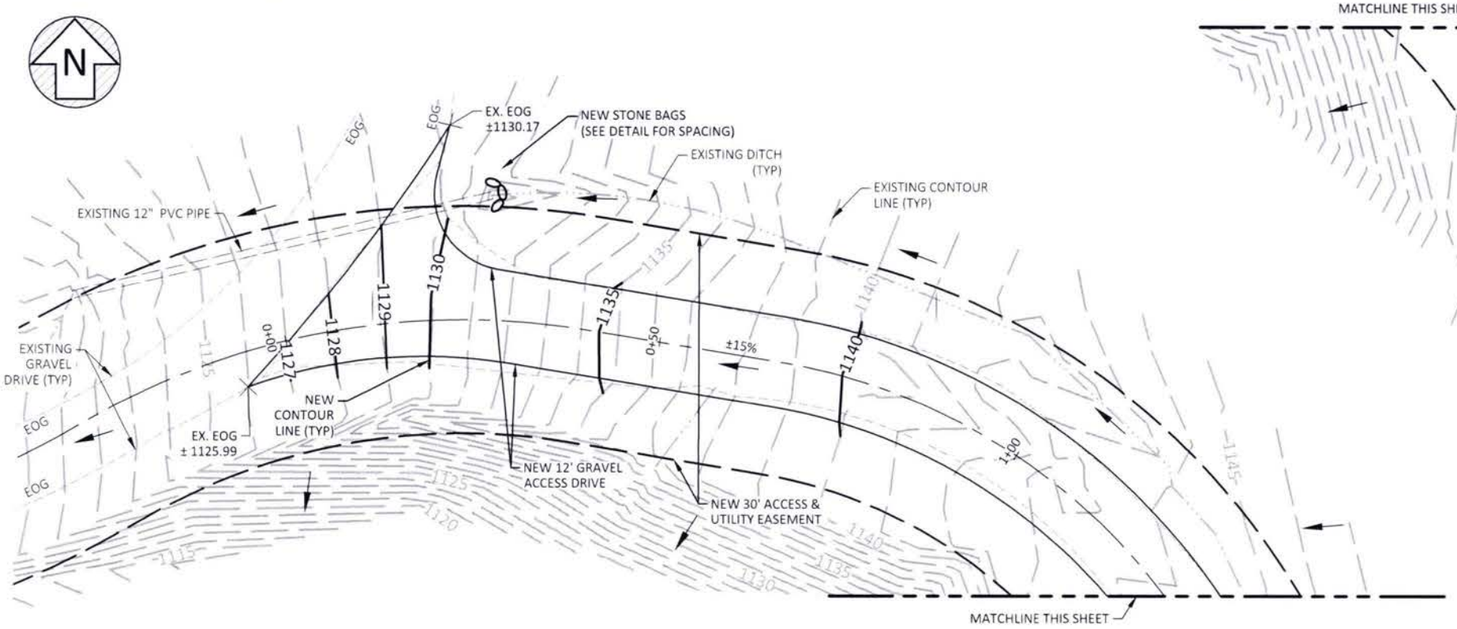

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Diamond Communications LLC

PREPARED FOR:
at&t

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

11/12/2020
EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION
A	10.08.20	ISSUED FOR REVIEW
B	10.29.20	CLIENT COMMENTS
C	10.30.20	CLIENT COMMENTS
D	11.10.20	STARTING ADDRESS
E	11.12.20	ISSUED FOR ZONING

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

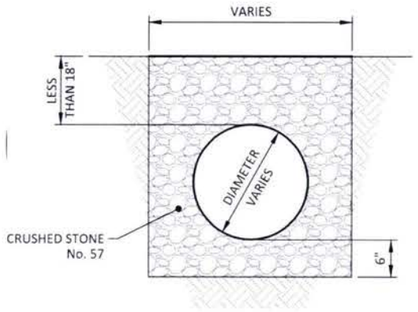
FA NUMBER:
13800691

POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

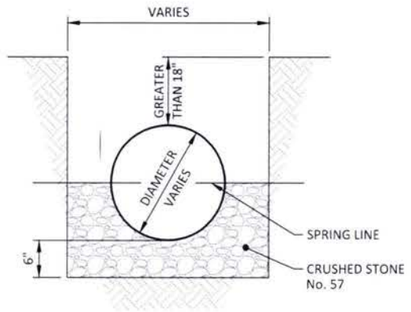
SHEET TITLE:
SITE GRADING PLAN

SHEET NUMBER:
GD-5



CRUSHED STONE ENCASEMENT DETAIL
NOT TO SCALE

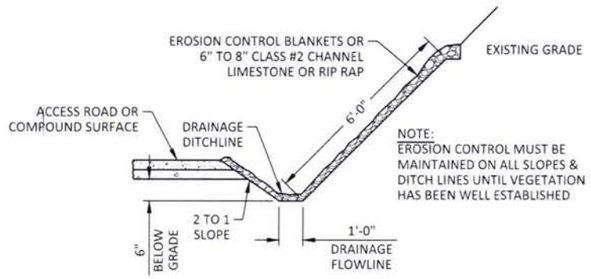
NOTE:
ENCASEMENT USED WITH 18" OF COVER OR LESS.



CRUSHED STONE CRADLE DETAIL
NOT TO SCALE

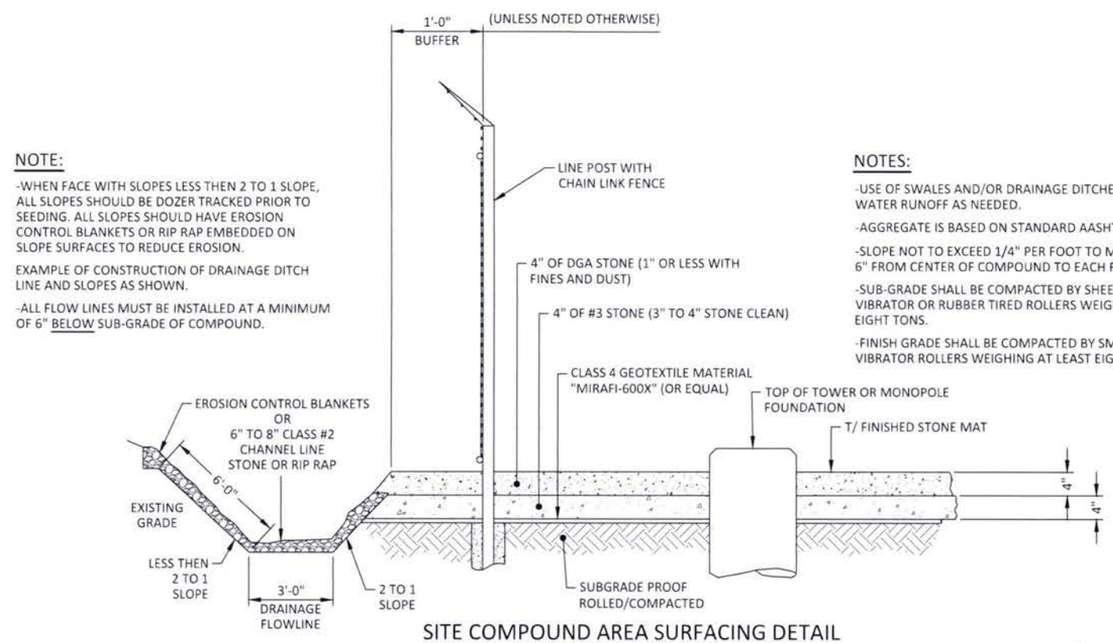
NOTE:
CRADLE USED WITH MORE THAN 18" OF COVER.

CULVERT NOTES
1. INSTALL CULVERTS WITH THE INLETS AT OR BELOW NATURAL GRADE.
2. OUTLET THE CULVERTS AT OR BEYOND THE TOE OF THE SLOPE. EROSION PROTECTION, SUCH AS RIP-RAP IS OFTEN NECESSARY AT THE OUTLET OF CULVERTS. NEVER OUTLET A CULVERT INTO FILL MATERIAL WITHOUT PROTECTIVE MEASURES.



NOTES:
1. WHEN FACED WITH SLOPES LESS THAN 2 TO 1 SLOPES, ALL SLOPES SHOULD BE DOZER TRACKED PRIOR TO SEEDING. ALL SLOPES SHOULD HAVE EROSION CONTROL BLANKETS OR RIP RAP EMBEDDED ON SLOPES SURFACES TO REDUCE EROSION.
2. ALL FLOWLINES MUST BE INSTALLED BELOW SUB-GRADE OF COMPOUND. (AT MINIMUM OF 6" BELOW)

DRAINAGE DITCHLINE DETAIL (SWALE)
NOT TO SCALE



NOTE:
-WHEN FACE WITH SLOPES LESS THEN 2 TO 1 SLOPE, ALL SLOPES SHOULD BE DOZER TRACKED PRIOR TO SEEDING. ALL SLOPES SHOULD HAVE EROSION CONTROL BLANKETS OR RIP RAP EMBEDDED ON SLOPE SURFACES TO REDUCE EROSION.

EXAMPLE OF CONSTRUCTION OF DRAINAGE DITCH LINE AND SLOPES AS SHOWN.

-ALL FLOW LINES MUST BE INSTALLED AT A MINIMUM OF 6" BELOW SUB-GRADE OF COMPOUND.

NOTES:
-USE OF SWALES AND/OR DRAINAGE DITCHES FOR PROPER WATER RUNOFF AS NEEDED.

-AGGREGATE IS BASED ON STANDARD AASHTO.

-SLOPE NOT TO EXCEED 1/4" PER FOOT TO MAX. GRADE OF 6" FROM CENTER OF COMPOUND TO EACH FENCE LINE.

-SUB-GRADE SHALL BE COMPACTED BY SHEEPS FOOT VIBRATOR OR RUBBER TIRED ROLLERS WEIGHING AT LEAST EIGHT TONS.

-FINISH GRADE SHALL BE COMPACTED BY SMOOTH DRUM VIBRATOR ROLLERS WEIGHING AT LEAST EIGHT TONS.

SITE COMPOUND AREA SURFACING DETAIL
NOT TO SCALE

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at&t

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

11/12/2020
EN PERMIT: 3594

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FA NUMBER:
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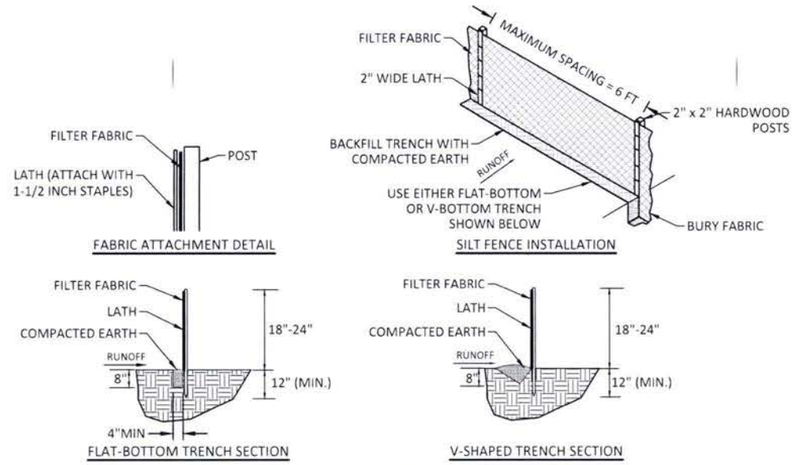
POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
SURFACE & DRAINAGE DETAILS

SHEET NUMBER:
GD-6



FILTER FABRIC SILT FENCE DETAIL

NOT TO SCALE

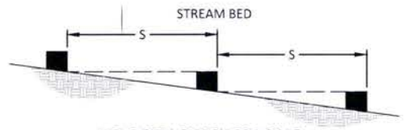
NOTES:

1. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
2. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. (9" MAX. RECOMMENDED STORAGE HEIGHT).
3. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

EROSION MAINTENANCE AND CLEAN-OUT

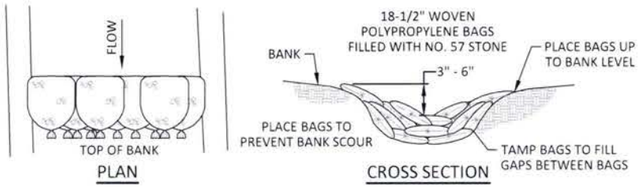
MAINTENANCE AND CLEAN-OUT SHALL BE PERFORMED BY THE SITE CONTRACTOR UNDER THE FOLLOWING GUIDELINES:

1. ROUTINE CHECKS OF THE EROSION CONTROL DEVICES SHALL BE PERFORMED AT A MINIMUM OF 7 DAYS OR AFTER EVERY ONE INCH OF RAINFALL.
2. ANY FAILURES OF EROSION CONTROL DEVICES SHOULD IMMEDIATELY BE ADDRESSED AND THE APPROPRIATE STEPS TAKEN TO REPAIR THE FAILURE.
3. THE CONTRACTOR SHALL MAINTAIN AN ACCURATE LOG OF THE EROSION SITE CONDITIONS.
4. THE CONTRACTOR IS TO REMOVE ANY DIRT OR MUD ON THE PUBLIC STREETS.
5. SILT FENCING SHALL REMAIN IN PLACE DURING ALL CONSTRUCTION ACTIVITIES AND MUST BE CLEANED OUT IF MORE THAN 1/3 FULL.
6. REMOVE THE FENCE AFTER ITS CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED. REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE IT USING THE APPROPRIATE PERMANENT STABILIZATION METHOD.



VELOCITY CHECK SPACING

NOTE:
SPACE SERIES OF VELOCITY CHECKS ALL ON STREAM REACH. USE SPACING "S" SUCH THAT THE CREST DOWNSTREAM CHECKS ARE THE SAME ELEVATION AS THE TOE OF UPSTREAM CHECKS



STONE BAG* SILT / VELOCITY CHECK DETAIL

NOT TO SCALE

*NOTE:
STRAW BALES MAY BE USED IN LIEU OF STONE BAGS AS APPROVED BY CITY ENGINEER

EROSION PREVENTION & SEDIMENT CONTROL NOTES

TO PREVENT EROSION, ALL SILT CONTROLS SHALL BE INSTALLED PRIOR TO CONSTRUCTION AND SHALL BE ADEQUATE FOR THE SITE. ANY MODIFICATIONS TO SILT CONTROLS SHOWN ON THE APPROVED PLANS AS A RESULT OF ACTUAL FIELD CONDITIONS OR CONSTRUCTION PRACTICES SHALL BE INSTALLED IN ACCORDANCE WITH BEST MANAGEMENT PRACTICES PER THE EPA'S "STORM WATER MANAGEMENT FOR CONSTRUCTION ACTIVITIES" MANUAL (LATEST EDITION).

ANY SUCH MODIFICATIONS SHALL BE THE RESPONSIBILITY OF THE OWNER AND SHALL BE INSTALLED AS DIRECTED BY THE ENGINEER.

ACTIONS MUST BE TAKEN TO MINIMIZE THE TRACKING OF MUD AND SOIL FROM CONSTRUCTION AREAS ONTO PUBLIC ROADWAYS. SOIL TRACKED ONTO THE ROADWAY SHALL BE REMOVED DAILY.

SOIL STOCKPILES SHALL BE LOCATED AWAY FROM STREAMS, PONDS, SWALES AND CATCH BASINS. STOCKPILES SHALL BE SEEDED, MULCHED AND ADEQUATELY CONTAINED THROUGH THE USE OF SILT FENCE.

WHERE CONSTRUCTION OR LAND DISTURBANCE ACTIVITY WILL OR HAS TEMPORARILY CEASED ON ANY PORTION OF A SITE, TEMPORARY SITE STABILIZATION MEASURES SHALL BE REQUIRED AS SOON AS PRACTICABLE, BUT NO LATER THAN 14 DAYS AFTER THE ACTIVITY HAS CEASED.

SEDIMENT-LADEN GROUNDWATER ENCOUNTERED DURING TRENCHING, BORING OR OTHER ACTIVITIES SHALL BE PUMPED TO A SEDIMENT TRAPPING DEVICE PRIOR TO BEING DISCHARGED INTO A STREAM, POND, SWALE OR CATCH BASIN.

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FA NUMBER:
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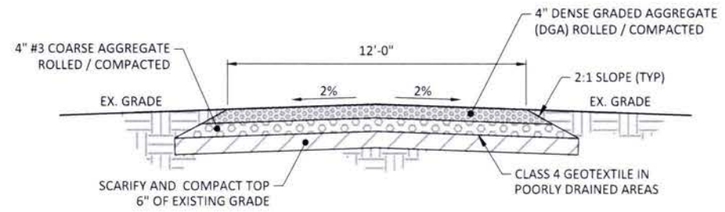
POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
EROSION CONTROL DETAILS

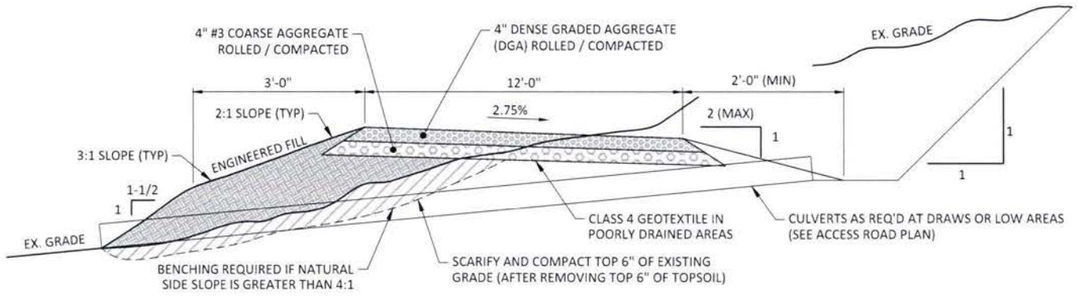
SHEET NUMBER:
GD-7



GRAVEL ACCESS ROAD - FLATLAND / RIDGETOP SITUATIONS

REMOVE TOP 6" OF SOIL FROM SUBGRADE
NOT TO SCALE

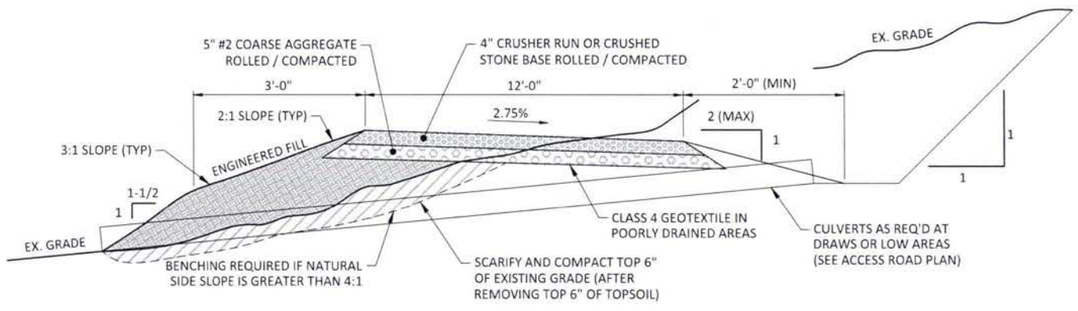
TO BE USED FOR
GRADES 0 - 4%



GRAVEL ACCESS ROAD - GRADUAL GRADE SITUATIONS

REMOVE TOP 6" OF SOIL FROM SUBGRADE
NOT TO SCALE

TO BE USED FOR
GRADES 5% - 11%



GRAVEL ACCESS ROAD - STEEP GRADE SITUATIONS

REMOVE TOP 6" OF SOIL FROM SUBGRADE
NOT TO SCALE

TO BE USED FOR
GRADES 12% AND ABOVE

ROADWAY DETAILS

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11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
Diamond
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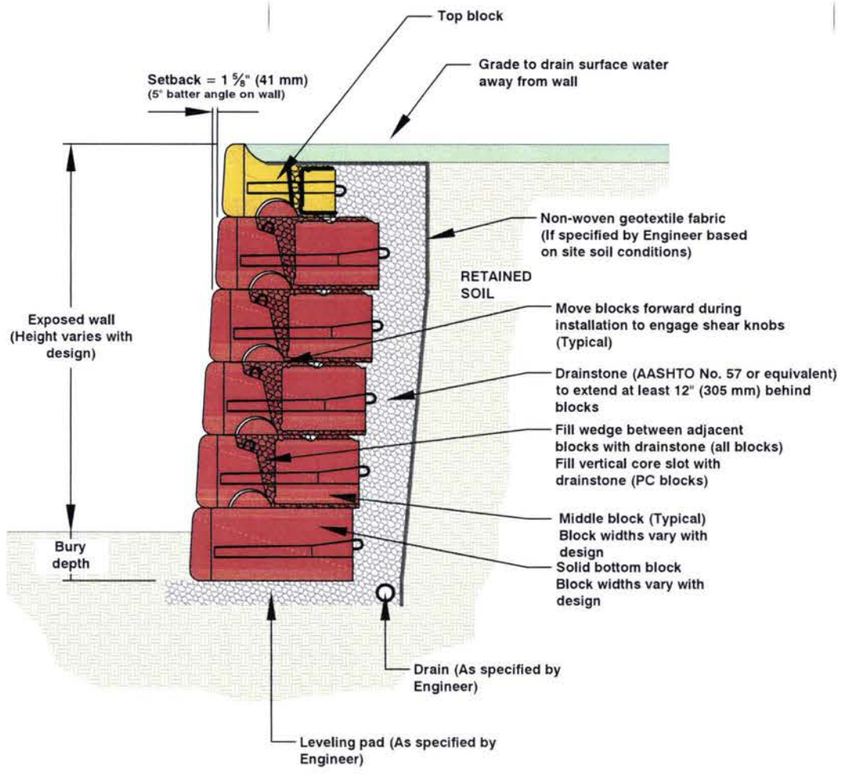
SHEET TITLE:
ROADWAY DETAILS

SHEET NUMBER:
GD-8

FINAL RETAINING WALL DESIGN PENDING FINAL GEOTECHNICAL INVESTIGATION REPORT. TYPICAL WALL DETAIL NOT TO BE USED FOR CONSTRUCTION

Typical Gravity Wall Section



This drawing is for reference only. Determination of the suitability and/or manner of use of any details contained in this document is the sole responsibility of the design engineer of record. Final project designs, including all construction details, shall be prepared by a licensed professional engineer using the actual conditions of the proposed site.

DRAWN BY:	JRJ
APPROVED BY:	JRJ
DATE:	17MAR2016
SHEET:	1 of 1

TITLE: **Typical Gravity Wall Detail**

FILE: 1 Typical Gravity Wall Detail 031716.dwg

REDI-ROCK
05481 US 31 SOUTH, CHARLEVOIX, MI 49720
(866) 222-8400 ext 3010 • engineering@redi-rock.com
www.redi-rock.com

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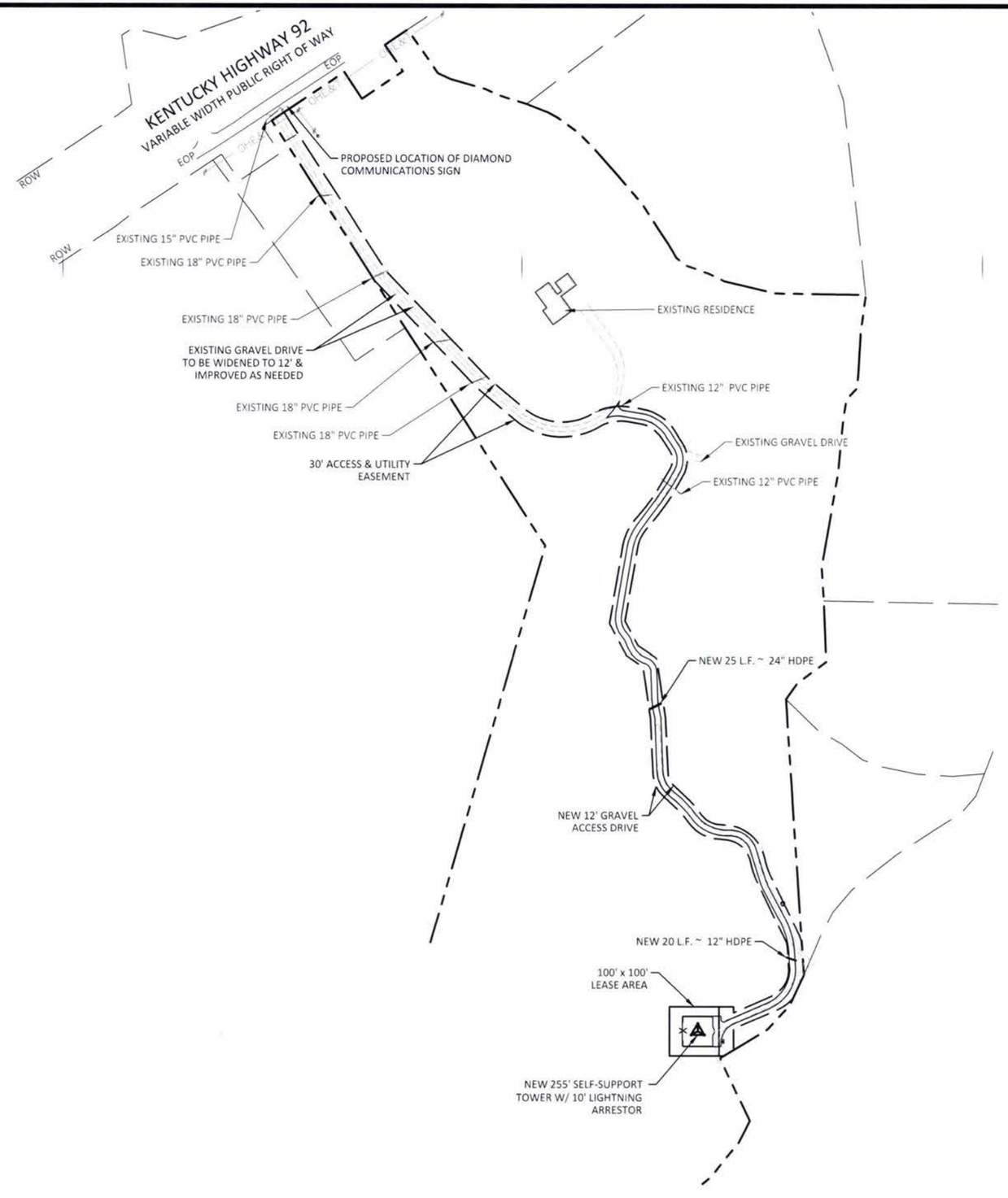
DATE:	10.08.20

SHEET TITLE:
RETAINING WALL DETAIL

SHEET NUMBER:
GD-9



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.

LEGEND

- UTILITY POLE
- TP TELEPHONE PED. / FIBER MARKER
- EXISTING PROPERTY LINE
- ACCESS & UTILITY EASEMENT
- NEW FENCE LINE
- OHT EXISTING OVERHEAD TELEPHONE
- OHE&T EXISTING OVERHEAD ELECTRIC & TELEPHONE
- EXISTING FENCE LINE

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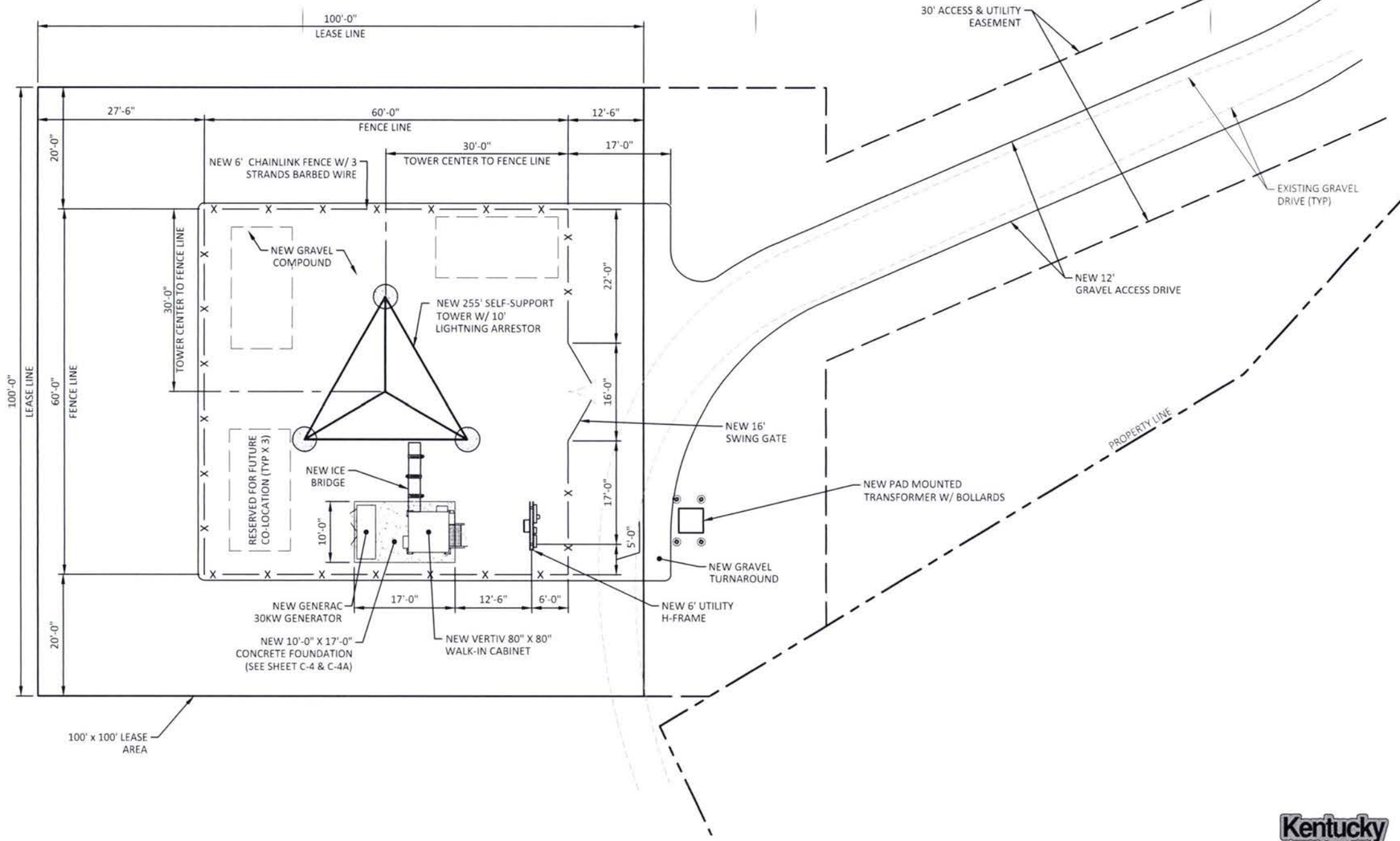
DRAWN BY:	ARH
CHECKED BY:	MEP
DATE:	10.08.20

SHEET TITLE:
OVERALL SITE LAYOUT

SHEET NUMBER:
C-1



LEGEND

- ACCESS & UTILITY EASEMENT
- NEW FENCE

0' 20' 40'

1"= 20'

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SHEET TITLE:
ENLARGED COMPOUND LAYOUT

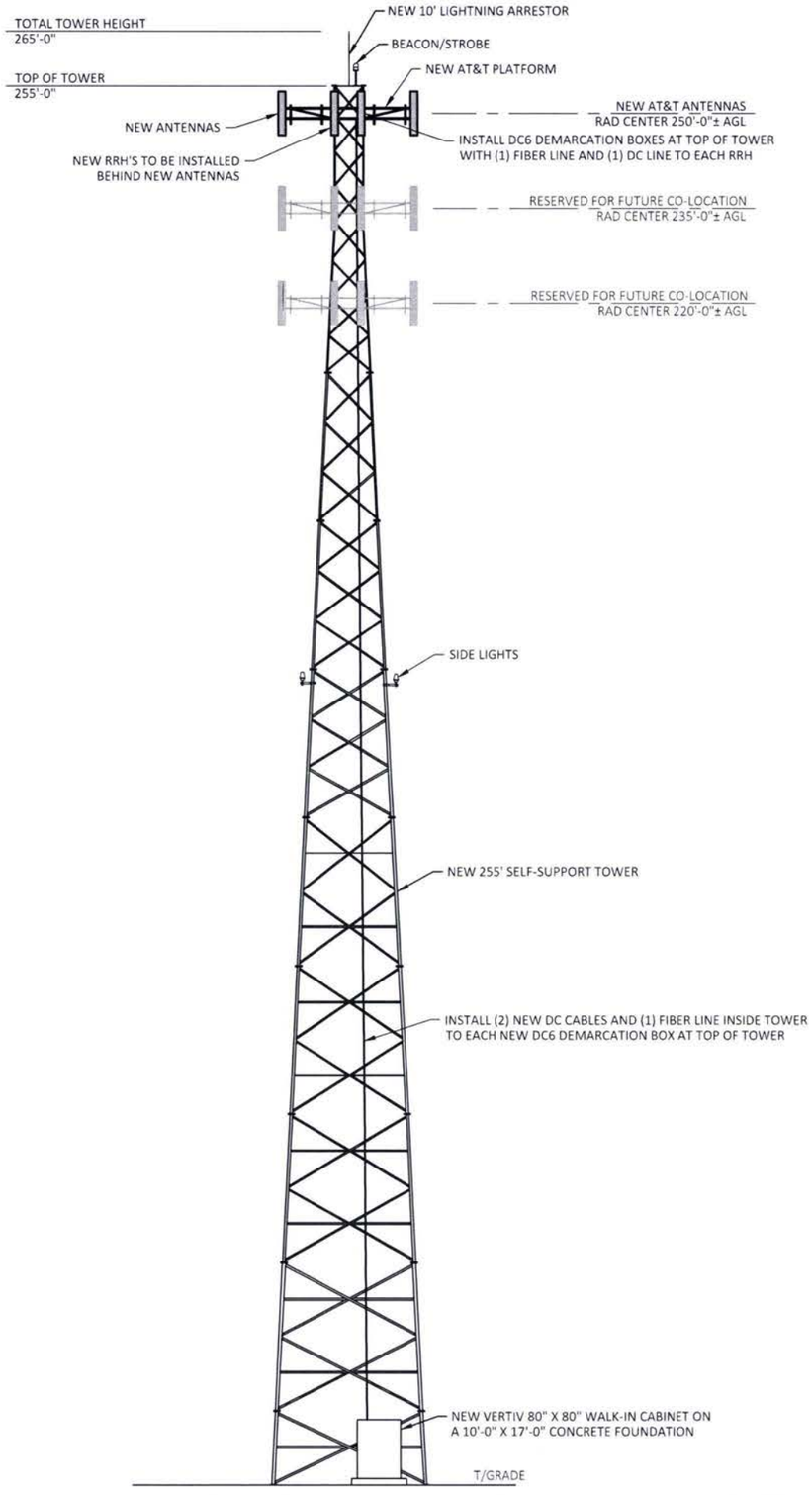
SHEET NUMBER:
C-2

TOWER NOTES:

1. THE NEW TOWER, FOUNDATION, ANTENNA MOUNTS, AND ANTENNAS WERE DESIGNED BY OTHERS.
2. THE TOWER ELEVATION SHOWN IS FOR REFERENCE ONLY.
3. TOWER AND FOUNDATION DESIGN WAS NOT PROVIDED TO POWER OF DESIGN GROUP, LLC.
4. CONTRACTOR TO FIELD VERIFY ANTENNA MOUNT CONFIGURATION WITH AT&T. ALL ANTENNAS AND MOUNTING HARDWARE SHALL CONFORM TO DESIGN REQUIREMENTS PER INTERNATIONAL BUILDING CODE (LATEST EDITION) AND EIA/TIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, BASIC WIND SPEED AS LISTED IN TOWER DRAWINGS.
5. SEE TOWER MANUFACTURER'S DRAWINGS FOR TOWER AND FOUNDATION DETAILS & SPECIFICATIONS.
6. MANUFACTURER'S DRAWINGS SUPERCEDE A&E DRAWINGS.

GENERAL NOTES:

1. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT: THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE AND/OR COUNTY IN WHICH IT IS TO BE PERFORMED.
2. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
4. ALL DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE OWNER IMMEDIATELY IF DISCREPANCIES ARE DISCOVERED.
5. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE (1) YEAR FROM THE DATE OF ACCEPTANCE.



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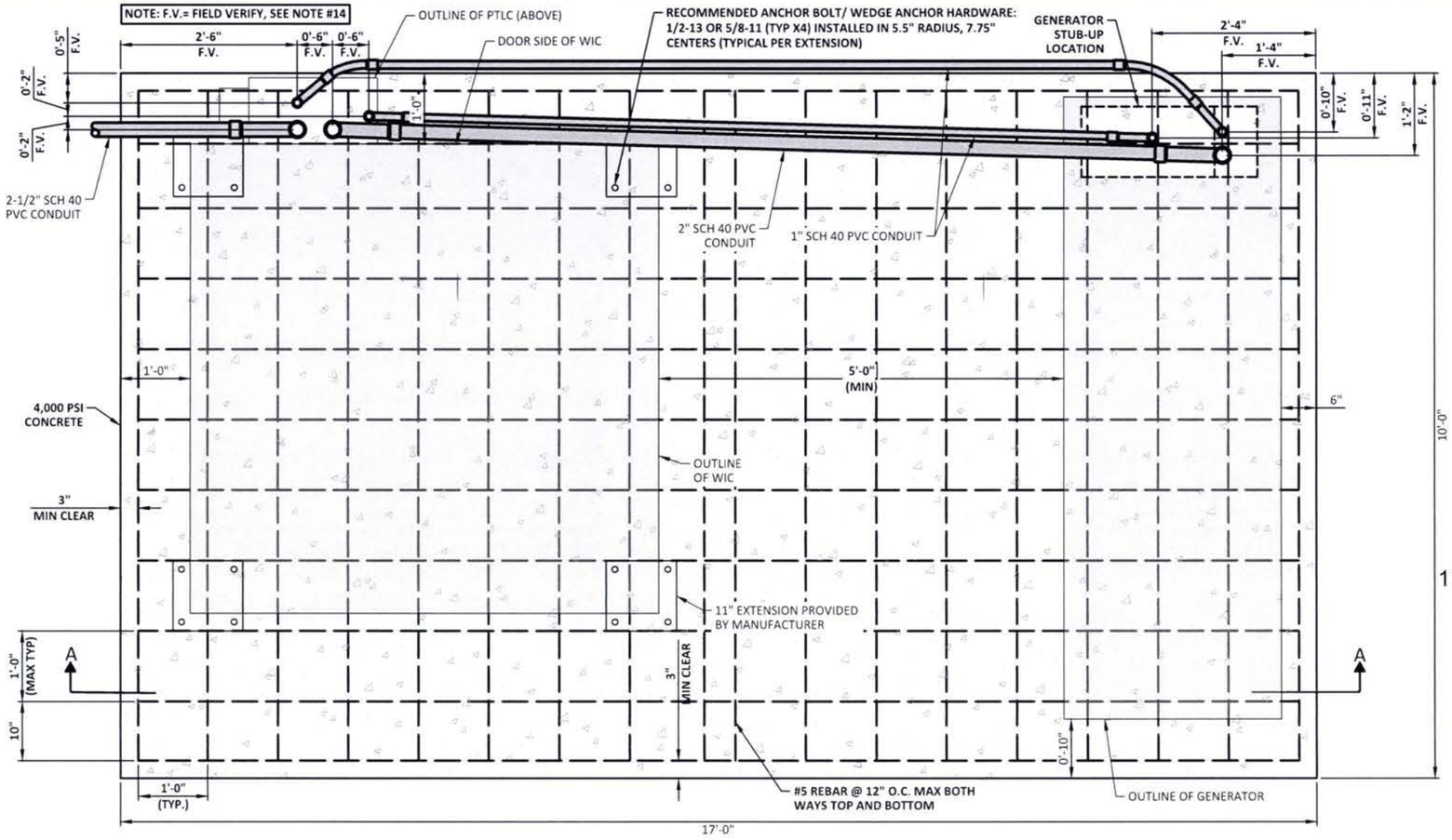
DATE: 10.08.20

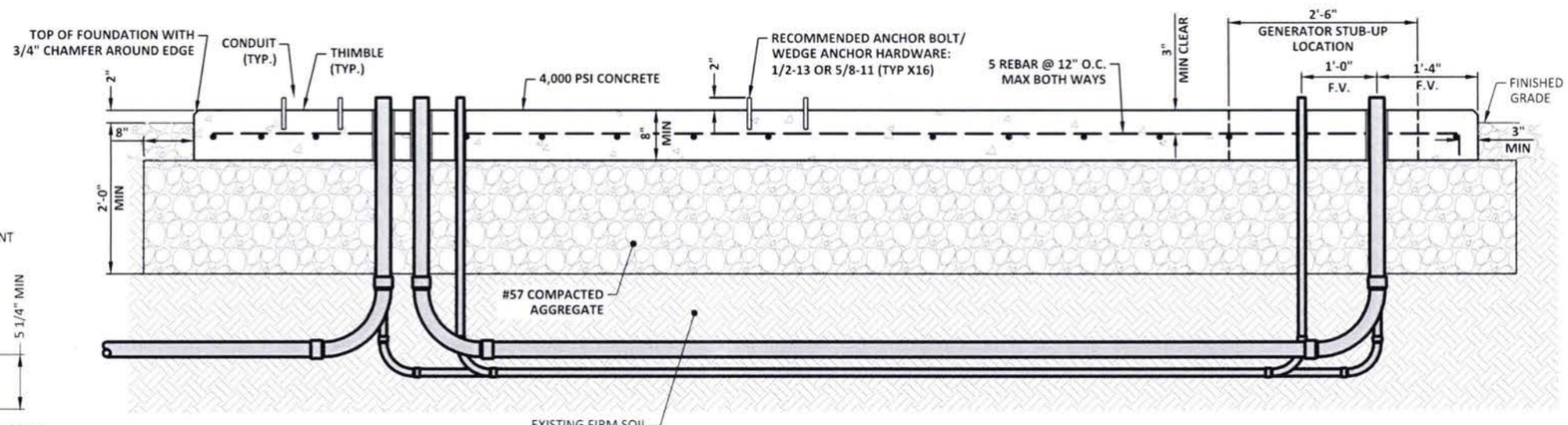
SHEET TITLE:
TOWER ELEVATION

SHEET NUMBER:
C-3

FOUNDATION NOTES:

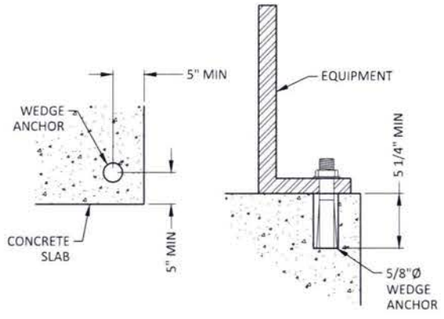
1. REFER TO CIVIL DRAWINGS FOR ORIENTATION OF FOUNDATION.
2. USE A HIGH-EARLY STRENGTH CONCRETE MIX SO THE CABINET MAY BE PLACED THREE DAYS FOLLOWING CONCRETE POURING. COARSE AGGREGATE USED IN THE CONCRETE SHALL BE GRADED FROM 3/4" TO NO. 4 ONLY. THE COMPRESSION STRENGTH OF THE CONCRETE MUST BE A MINIMUM OF 4000 PSI AS DETERMINED BY ASTM C39 TEST OF COMPRESSION STRENGTH OF CONCRETE CYLINDERS.
3. CURE THE PAD FOR A MINIMUM OF THREE DAYS BEFORE CABINET INSTALLATION, OR PER SPECIFICATIONS FOR THE TYPE OF CONCRETE USED AND PER LOCAL CODES AND REQUIREMENTS.
4. ALL CONCRETE SHALL HAVE 28 DAY STRENGTH OF 4000 PSI MINIMUM, WITH A SLUMP OF 3"-7" AND SHALL BE AIR ENTRAINED @ 5.5 ±1.1%. 5 TEST CYLINDERS SHALL BE MADE FOR THE 3,7, & (2) 28 DAY TESTS WITH ONE SPARE
5. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A 185 FOR STEEL WELDED WIRE REINFORCEMENT UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
6. CONTRACTOR TO ENSURE FOUNDATION / SLAB ARE POURED TO MEET FLATNESS LEVEL TOLERANCES AS INDICATED IN ACI 4.5.6 AND ACI 4.5.7.
7. SLAB TOLERANCE IS ± 1/4".
8. THIS FOUNDATION IS DESIGNED FOR 2,000 PSF ALLOWABLE SOIL BEARING CAPACITY.
9. A CHAMFER, 3/4", SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.
10. FOUNDATION BEARING MATERIAL SHALL BE TESTED & VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER.
11. GROUND REBAR TO GROUND RING IN (2) LOCATIONS USING #2 SOLID BARE TINNED COPPER GROUND WIRE.
12. INSTALLATION OF CONCRETE EXPANSION/WEDGE ANCHORS, SHALL BE PER MANUFACTURER'S WRITTEN RECOMMENDED PROCEDURE. THE ANCHOR BOLT, DOWEL OR ROD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO WWR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE. EXPANSION BOLTS SHALL BE PROVIDED BY RAMSET/REDHEAD OR APPROVED EQUAL.
13. CONDUITS SHALL EXTEND APPROXIMATELY 2" ABOVE FINISHED SURFACE. SEAL CONDUITS TO PREVENT CONCRETE ENTRY DURING POUR.
14. CONTRACTOR SHALL VERIFY THE PLACEMENT OF CONDUITS WITH THE ACTUAL ENCLOSURE KNOCK-OUT AND OR STUB-UP LOCATIONS TO ENSURE THE PROPER ALIGNMENT OF ALL CONDUITS.





SECTION 'A-A'
NOT TO SCALE

NOTE: FOR CLARITY, NOT ALL CONDUITS ARE SHOWN



GENERATOR ANCHOR BOLT DETAIL
NOT TO SCALE

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

PREPARED FOR:
Diamond Communications LLC

PREPARED FOR:
at&t

STATE OF KENTUCKY
MARK E. PATTERSON
16,300
LICENSED PROFESSIONAL ENGINEER
11/12/2020
EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION
A	10.08.20	ISSUED FOR REVIEW
B	10.29.20	CLIENT COMMENTS
C	10.30.20	CLIENT COMMENTS
D	11.10.20	STARTING ADDRESS
E	11.12.20	ISSUED FOR ZONING

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

FA NUMBER:
13800691

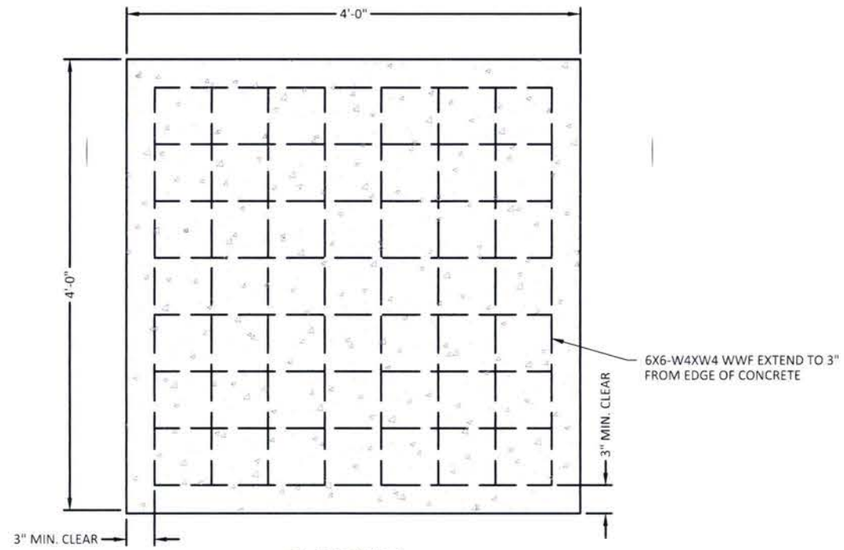
POD NUMBER: 20-69321
DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
WIC FOUNDATION PLAN (TURNDOWN)

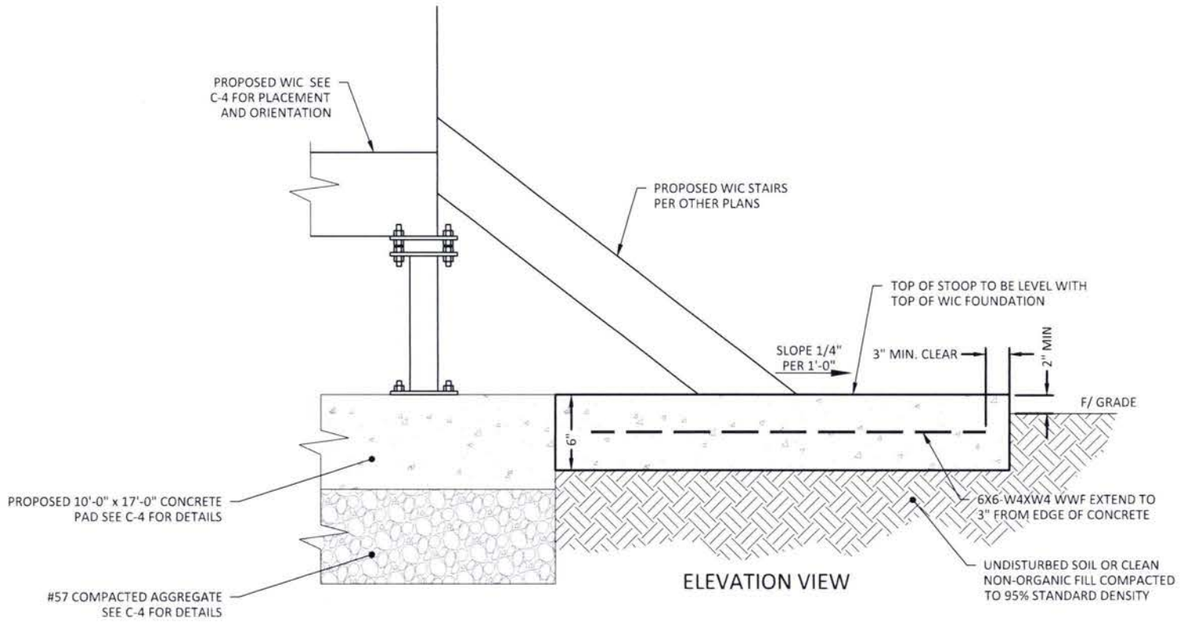
SHEET NUMBER:
C-4

FOUNDATION NOTES:

1. REFER TO CIVIL DRAWINGS FOR ORIENTATION OF STOOP.
2. COARSE AGGREGATE USED IN THE CONCRETE SHALL BE GRADED FROM 3/4" TO NO. 4 ONLY. THE COMPRESSION STRENGTH OF THE CONCRETE MUST BE A MINIMUM OF 4000 PSI AS DETERMINED BY ASTM C39 TEST OF COMPRESSION STRENGTH OF CONCRETE CYLINDERS.
3. CURE THE PAD FOR A MINIMUM OF THREE DAYS BEFORE USE, OR PER SPECIFICATIONS FOR THE TYPE OF CONCRETE USED AND PER LOCAL CODES AND REQUIREMENTS.
4. ALL CONCRETE SHALL HAVE 28 DAY STRENGTH OF 4000 PSI MINIMUM, WITH A SLUMP OF 3"-7" AND SHALL BE AIR ENTRAINED @ 5.5 ±1.1%. 5 TEST CYLINDERS SHALL BE MADE FOR THE 3,7, & (2) 28 DAY TESTS WITH ONE SPARE
5. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE REINFORCEMENT SHALL CONFORM TO ASTM A 185 FOR STEEL WELDED WIRE REINFORCEMENT UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B" AND ALL HOOKS SHALL BE STANDARD UNLESS NOTED OTHERWISE.
6. CONTRACTOR TO ENSURE STOOP IS POURED TO MEET FLATNESS LEVEL TOLERANCES AS INDICATED IN ACI 4.5.6 AND ACI 4.5.7.
7. SLAB TOLERANCE IS ± 1/4".
8. A CHAMFER, 3/4", SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.



PLAN VIEW



ELEVATION VIEW

TYPICAL CONCRETE STOOP

NOT TO SCALE

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PREPARED FOR:
Diamond Communications LLC

PREPARED FOR:
at&t

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

11/12/2020
EN PERMIT: 3594

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KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

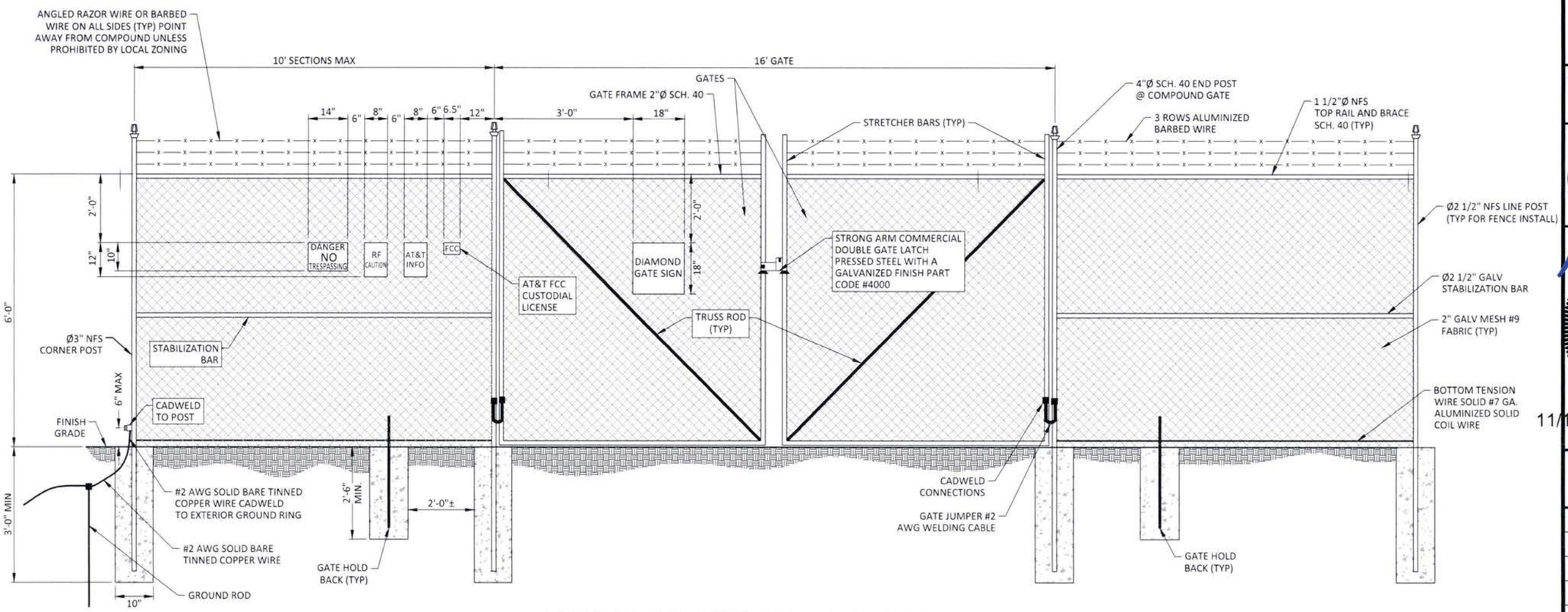
FA NUMBER:
13800691

POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

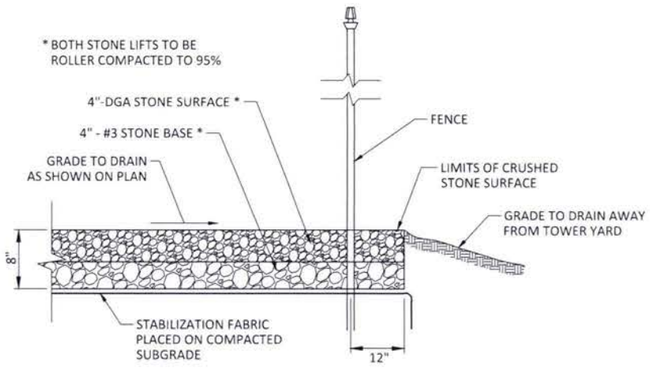
SHEET TITLE:
WIC FOUNDATION PLAN (PAD)

SHEET NUMBER:
C-4A



FENCE AND SIGNAGE DETAIL AND SPECIFICATIONS

NOT TO SCALE



COMPOUND SURFACING

NOT TO SCALE

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LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
Diamond Communications LLC

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11/12/2020
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SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

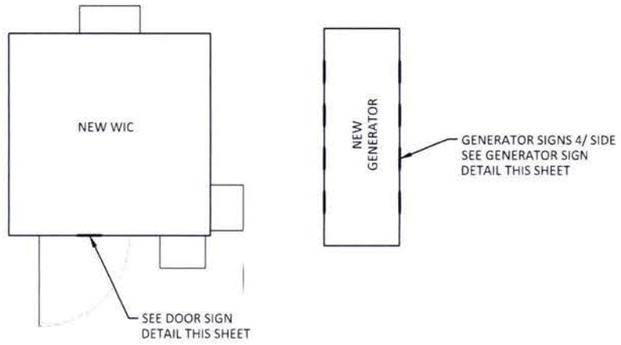
FA NUMBER:
13800691

POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
WIC FOUNDATION PLAN (PAD)

SHEET NUMBER:
C-5



SIGN LOCATIONS

Diamond Communications LLC Site # KY036
SMITH HOLLOW
For Leasing or Site Information Call:
1-800-260-3226
FCC# N/A

DIAMOND GATE SIGN
18" X 18"
NOT TO SCALE

Diamond Communications LLC Site # KY036
SMITH HOLLOW
For Leasing or Site Information Call: 1-800-260-3226
FCC# N/A NO TRESPASSING

DIAMOND ENTRANCE SIGN (POSTED AT ROW)
8" X 18"
NOT TO SCALE

INFORMATION

AT&T Mobility operates telecommunications antennas at this location. Maintain an initial 3 feet away from any antenna and obey all posted signs.

Contact the owner(s) of the antenna(s) before working closer than 3 feet from the antenna(s).

Contact AT&T Mobility at 800-638-2822 prior to performing any maintenance or repairs near AT&T Mobility antennas.

This is site #
Contact the management office if this door/hatch/gate is found unlocked.

INFORMACION

en este propiedad se ubican antenas de telecomunicaciones operadas pr AT&T Mobility. Favor mantener una distancia de no menos de 3 pies y obedecer todos los avisos

comuniquese con el propietario o los proveedores de las antes de trabajar o caminar de manos de 3 pies de la antena

comuniquese con AT&T Mobility 800-638-2822 antes de realizar cualquier mantenimiento o reparaciones cerca de las antenas de AT&T Mobility.

Esta es la estacion base numero:
Favor comunicarte con la oficina de la administracion del edificio si esta puerta o compuerta se encuentra sin candado

RFE NOTICE (GREEN) SIGN
8" WIDE x 12" HIGH

WARNING

Beyond this point:
Radio frequency fields at this site may exceed FCC rules for human exposure.

Failure to obey all posted signs and site guidelines for working in radio frequency environments could result in serious injury.

RFE NOTICE (BLUE) SIGN
12" WIDE x 18" HIGH

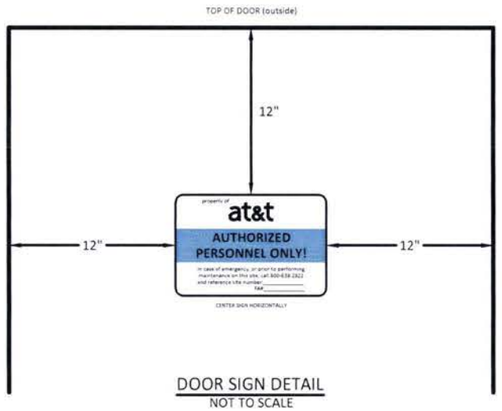
CAUTION

Beyond this point:
Radio frequency fields at this site may exceed FCC rules for human exposure.

For your safety, obey all posted signs and site guidelines for working in radio frequency environments.

RFE NOTICE (YELLOW) SIGN
12" WIDE x 18" HIGH

RF CAUTION SIGNS:
RF CAUTION SIGNS TO BE INSTALLED AS DETERMINED BY SITE RF EXPOSURE SURVEY



DOOR SIGN DETAIL
NOT TO SCALE

property of
at&t
AUTHORIZED PERSONNEL ONLY!
In case of emergency, or prior to performing maintenance on this site, call 800-638.2822 and reference site number:_____
FA#_____

AT&T IDENTIFICATION SIGN
8" X 12"
NOT TO SCALE

at&t Mobility

AT&T IDENTIFICATION SIGN
3" X 6.5"
NOT TO SCALE

FOR FUEL & OTHER ENVIRONMENTAL EMERGENCIES CALL EH&S 1-800-566-9347 (1-800-KNOW-EHS)

YELLOW EH&S SIGN
NOT TO SCALE

THE CUSTODIAN OF THIS STATIONS LICENSE IS:
AT&T
ATTN: FCC GROUP
3300 E. RENNER ROAD, B3132
RICHARDSON, TEXAS 75082
855-699-7073
FCCMW@att.com

FCC CUSTODIAL LICENSE SIGN
3" X 6.5"
NOT TO SCALE

DANGER
NO TRESPASSING

DANGER SIGN
10" X 14"
NOT TO SCALE

15"
12"
DIESEL FUEL
COMBUSTIBLE
NO SMOKING
NO OPEN FLAMES
FUEL TANK CAPACITY ___ GALS

FUEL TANK SIGN
NOT TO SCALE

HAZARD DIAMOND SIGN
15" x 15" W/ 6" LETTERS
NOT TO SCALE

GENERATOR SIGN DETAIL
NOT TO SCALE

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

PREPARED FOR:
Diamond Communications LLC

PREPARED FOR:
at&t

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

11/12/2020

EN PERMIT: 3594

CONSTRUCTION DRAWINGS

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SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

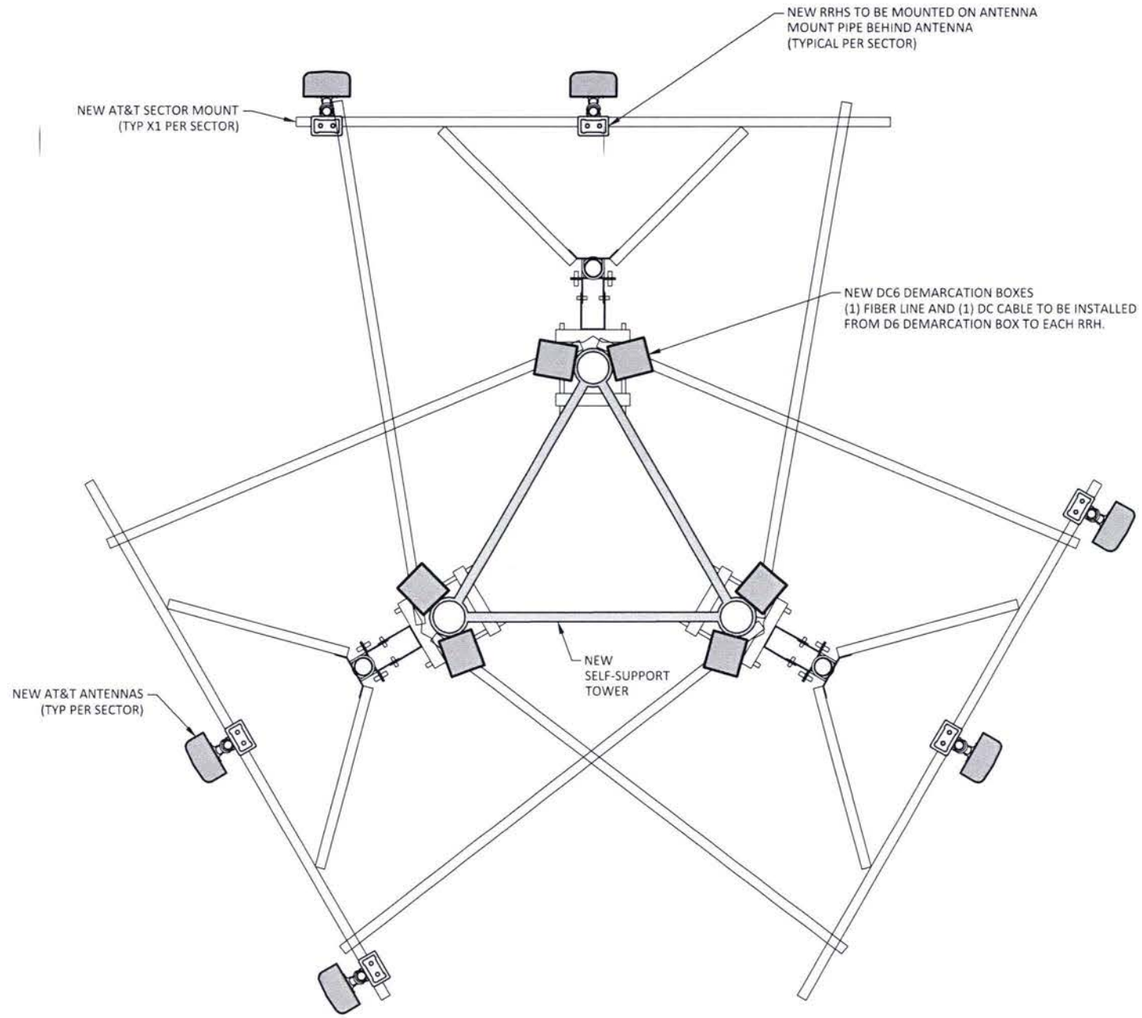
DIAMOND SITE NUMBER:
KY036

FA NUMBER:
13800691

POD NUMBER: 20-69321
DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
SIGN INFORMATION

SHEET NUMBER:
C-6



FINAL ANTENNA & RADIO CONFIGURATION SHALL BE PER THE FINAL RFDS

TYPICAL AT&T ANTENNA MOUNT DETAIL

NOT TO SCALE

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11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502-437-5252

PREPARED FOR:
Diamond Communications LLC

PREPARED FOR:
at&t

STATE OF KENTUCKY
MARK E. PATTERSON
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LICENSED PROFESSIONAL ENGINEER

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KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

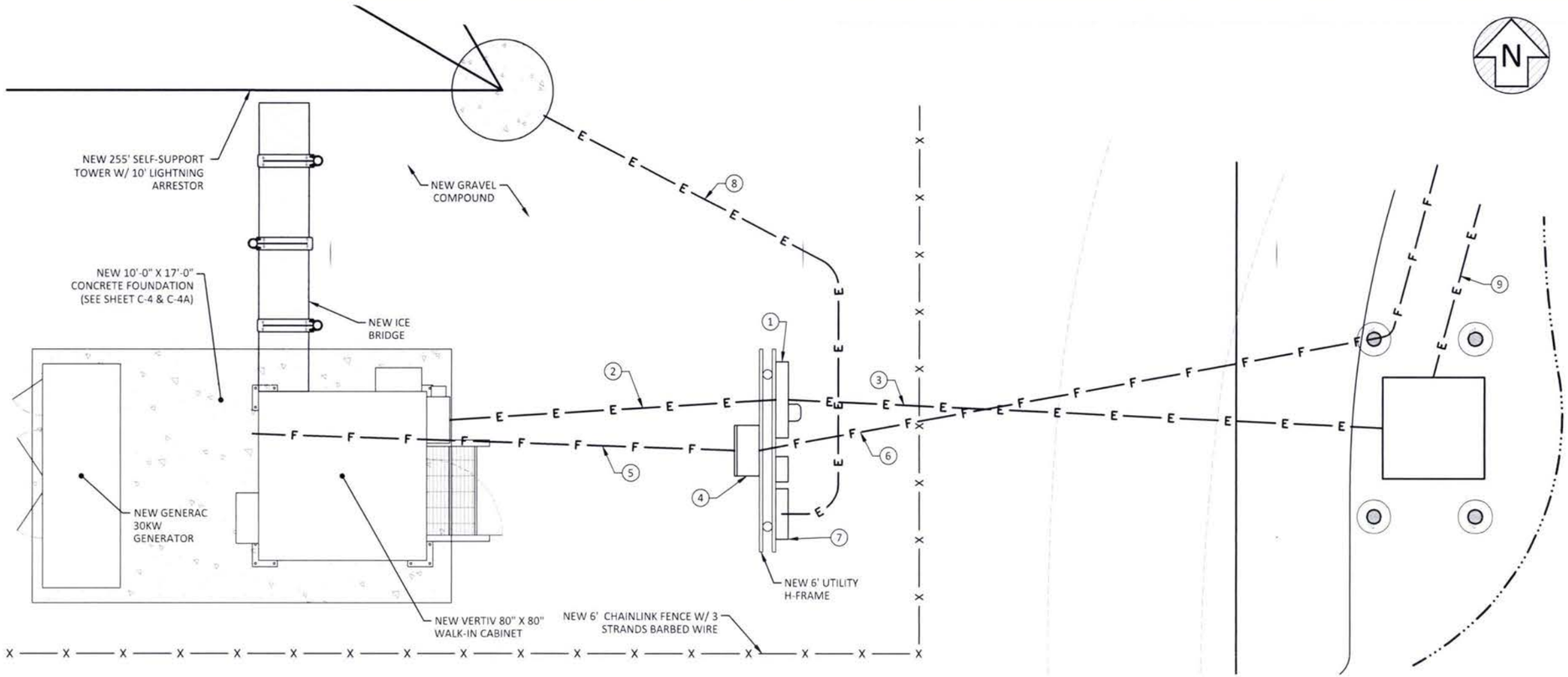
FA NUMBER:
13800691

POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
ANTENNA MOUNT & ORIENTATION

SHEET NUMBER:
C-7



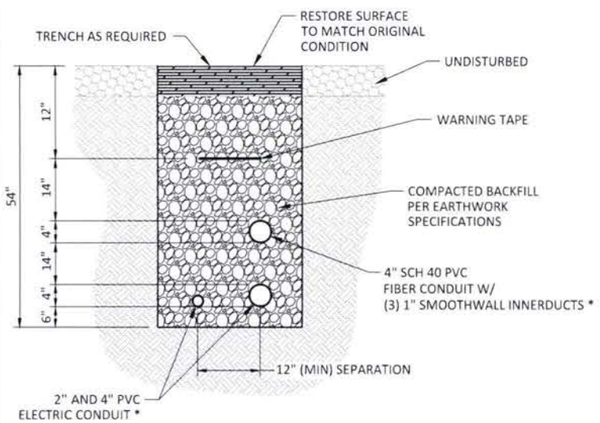
SITE UTILITY PLAN:

1. NEW 800 AMP, 4-GANG METER CENTER TO BE INSTALLED ON NEW H-FRAME. NEW METER & OCPD TO BE INSTALLED IN FIRST OPEN SOCKET FOR DIAMOND. NEW METER & OCPD TO BE INSTALLED IN SECOND OPEN SOCKET FOR AT&T.
2. POWER ROUTED FROM NEW METER CENTER ON NEW H-FRAME TO WIC IN (1) 2-1/2" SCH 40 PVC CONDUIT W/ PULL STRING & (3) 3/0 & (1) #4 AWG GND
3. POWER ROUTED FROM PAD MOUNTED TRANSFORMER TO NEW METER CENTER ON NEW H-FRAME IN 4" SCH 40 PVC CONDUIT W/ (2) PARALLEL SETS OF (3) 350 KCMIL CU THWN-2.
4. NEW FIBER BOX TO BE INSTALLED ON NEW H-FRAME FOR FIBER
5. FIBER ROUTED FROM NEW FIBER BOX TO WIC IN (1) 4" SCH 40 PVC CONDUIT W/ (3) 1" SMOOTHWALL INNERDUCTS W/ PULL STRING
6. FIBER ROUTED FROM ROW TO NEW FIBER BOX IN (1) 4" SCH 40 PVC CONDUIT W/ (3) 1" SMOOTHWALL INNERDUCTS
7. NEW TOWER LIGHTING LOAD CENTER & POWER CONTROLLER TO BE INSTALLED ON NEW H-FRAME FOR TOWER LIGHTING
8. POWER ROUTED FROM TOWER LIGHTING POWER CONTROLLER ON NEW H-FRAME TO TOWER IN (1) 2" SCH 40 PVC CONDUIT
9. POWER ROUTED FROM EXISTING POLE AT ROW TO NEW PAD MOUNTED TRANSFORMER IN (1) 4" SCH 40 PVC CONDUIT, 4' BELOW GRADE, WITH APPROXIMATELY 10 PULL BOXES

LEGEND

- X — X — NEW FENCE LINE
- E — E — NEW ELECTRIC CONDUIT
- F — F — NEW FIBER CONDUIT
- P — P — NEW POWER CONDUIT
- CA — CA — NEW CONTROL & ALARM CONDUIT

0' 5' 10'
1"= 5'



MULTI-CONDUIT TRENCH DETAIL

NOT TO SCALE

* SEPARATION DIMENSION TO BE VERIFIED WITH LOCAL UTILITY CO. REQUIREMENT. SEE CONDUIT(S) SIZE APPLICABLE IN THE UTILITY PLAN. NUMBER AND SIZES OF POWER AND FIBER CONDUITS MUST MEET ALL NEC AND UTILITY COMPANY REQUIREMENTS.

POWER COMPANY IS RESPONSIBLE FOR:
- PROVIDE & INSTALL NEW PAD MOUNTED TRANSFORMER
- PROVIDE & INSTALL PRIMARY CONDUCTORS FROM EXISTING POLE TO NEW PAD MOUNTED TRANSFORMER

GENERAL CONTRACTOR IS RESPONSIBLE FOR:
- PROVIDE & INSTALL (1) 4" CONDUIT W/ PULL STRINGS FROM EXISTING UTILITY POLE TO PAD MOUNTED TRANSFORMER
- PROVIDE & INSTALL SECONDARY CONDUITS & CONDUCTORS

NOTES:
- GENERAL CONTRACTOR TO CONTACT POWER COMPANY AFTER SITE AND ROAD ARE CUT IN FOR THE FINAL UTILITY STAKING
- SEE SHEET C-1 FOR OVERALL POWER ROUTING INFORMATION (APPROXIMATE UTILITY POLE LOCATION)

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.

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

PREPARED FOR:
Diamond Communications LLC

PREPARED FOR:
at&t

STATE OF KENTUCKY
MARK E. PATTERSON
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LICENSED PROFESSIONAL ENGINEER
11/12/2020
EN PERMIT: 3594

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KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

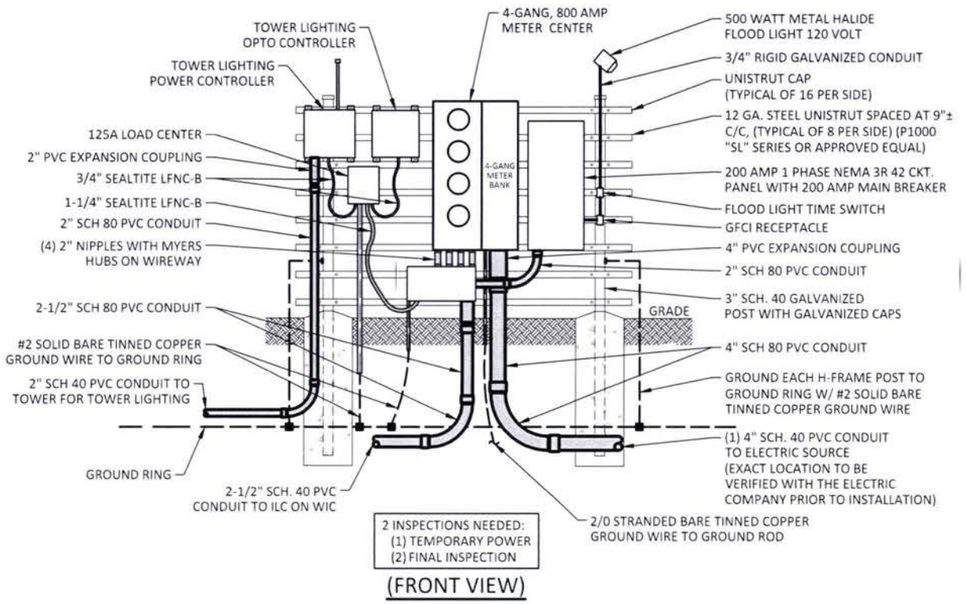
FA NUMBER:
13800691

POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
UTILITY PLAN

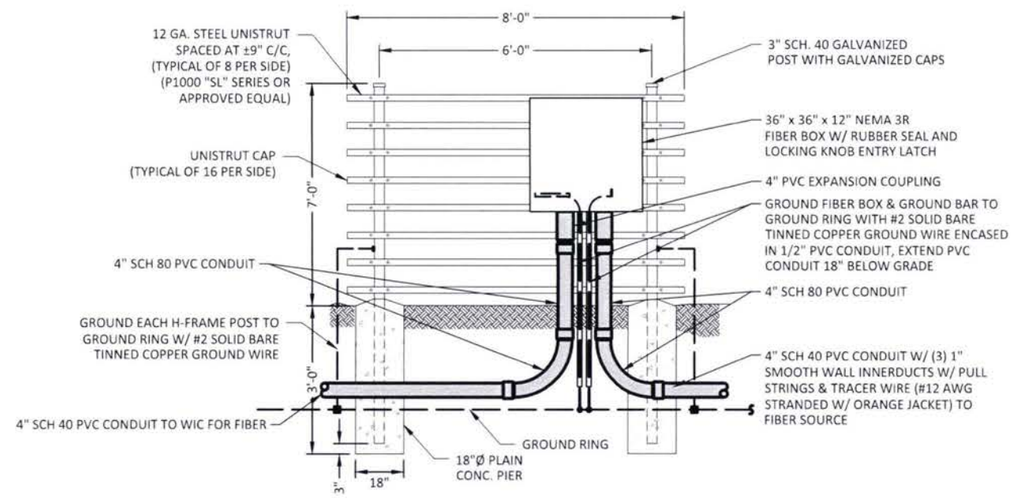
SHEET NUMBER:
E-1



(FRONT VIEW)

6' UTILITY H-FRAME

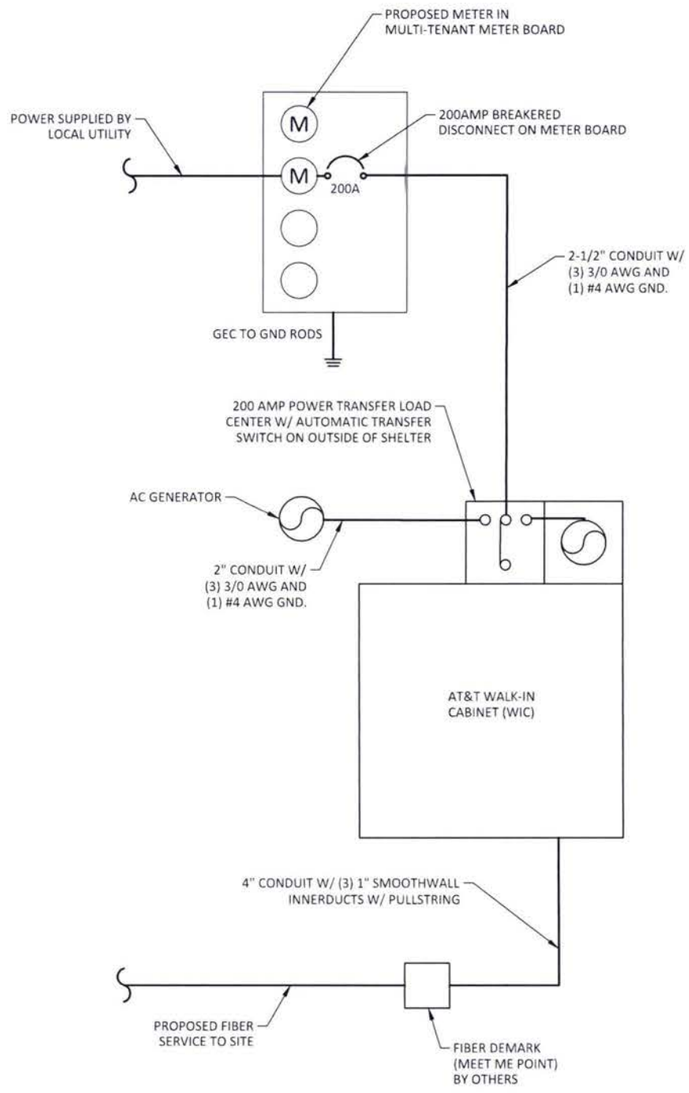
NOT TO SCALE



(BACK VIEW)

NOTE:

CONTRACTOR TO VERIFY WITH THE LOCAL UTILITY COMPANY FOR APPROVED MATERIAL AND SPECIFICATIONS ON THE H-FRAME



ELECTRICAL AND FIBER ONE LINE DIAGRAM

NOT TO SCALE

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502-437-5252

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DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
ELECTRICAL DETAILS

SHEET NUMBER:
E-2

NOTES:

1. ALL WIRE TO BE #12 THHN/THWN UNLESS NOTED OTHERWISE.
   COLOR CODE:
   - Aϕ = BLACK
   - Bϕ = RED
   - NEUTRAL = WHITE
   - GROUND = GREEN
2. ALL WORK TO CONFORM TO N.E.C. LATEST STATE ADOPTED EDITION.
3. LABEL SERVICE DISCONNECT WITH A RED TAG.
4. SWITCH LEG CONDUCTORS SHALL BE THE SAME COLOR AS CIRCUIT CONDUCTORS.
5. PULL WIRES TO END OF FLEXIBLE NONMETALLIC CONDUIT. COIL 3'-0" AT END OF FLEXIBLE NONMETALLIC CONDUIT & TAG.
6. PULL ONE GROUND CONDUCTOR PER FLEXIBLE NONMETALLIC CONDUIT. FOR ALL OTHER CIRCUITS PULL A SEPARATE CONDUCTOR.
7. ALL GFCI RECEPTACLES TO HAVE A DEDICATED GROUND WIRE.
8. EQUIPMENT TERMINATION LUGS AND CONDUCTORS ARE RATED AT A MINIMUM OF 75°C.

PP1 PTLC PANEL SCHEDULE

200A, 120/240VAC, 1ϕ3W, 60HZ

DESCRIPTION	BREAKER	# POLES	AMPS	AWG	CKT. NO.	CONNECTED LOAD VA A	CONNECTED LOAD VA B	DEMAND LOAD VA A	DEMAND LOAD VA B	DEMAND LOAD VA B	DEMAND LOAD VA A	CONNECTED LOAD VA B	CONNECTED LOAD VA A	CKT. NO.	AWG	AMPS	# POLES	BREAKER	DESCRIPTION
SHELF 1 / RECTIFIER 1	30 / 30	2	30	8	1	1000		1250			180		180	2	12	20	1	20	EXTERIOR GFCI OUTLET
					3		1000		1250		1250		1000	4	8	30	2	30 / 30	SHELF 2 / RECTIFIER 1
SHELF 1 / RECTIFIER 2	30 / 30	2	30	8	5	1000		1250		1250		1000		6					
					7		1000		1250		1250		1000	8	8	30	2	30 / 30	SHELF 2 / RECTIFIER 2
SHELF 1 / RECTIFIER 3	30 / 30	2	30	8	9	1000		1250		1250		1000		10					
					11		1000		1250		1250		1000	12	8	30	2	30 / 30	SHELF 2 / RECTIFIER 3
SHELF 1 / RECTIFIER 4	30 / 30	2	30	8	13	1000		1250		1250		1000		14					
					15		1000		1250		1250		1000	16	8	30	2	30 / 30	SHELF 2 / RECTIFIER 4
SHELF 1 / RECTIFIER 5	30 / 30	2	30	8	17	1000		1250		1250		1000		18					
					19		1000		1250		1250		1000	20	8	30	2	30 / 30	SHELF 2 / RECTIFIER 5
SHELF 1 / RECTIFIER 6	30 / 30	2	30	8	21	1000		1250		1250		1000		22					
					23		1000		1250		1250		1000	24	8	30	2	30 / 30	SHELF 2 / RECTIFIER 6
HVAC #1	25 / 25	2	25	8	25		2388		2388	1250		1000		26					
					27	2388		2388			187.5		150	28	12	20	1	20	EXTERIOR FLOOD LIGHTS
RECEPTICLES	20	1	20	12	29		720		720		275		220	30	12	20	1	20	INTERIOR LIGHTS
						8388		9888			8143		6550	TOTAL KVA CONNECTED LOAD					30.05
							9108		10608	7500		6000		TOTAL KVA DEMAND LOAD					36.14
														TOTAL CONNECTED AMPS					125.19
														TOTAL DEMAND AMPS					150.58

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at&t

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

1 /12/2020
EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION
A	10.08.20	ISSUED FOR REVIEW
B	10.29.20	CLIENT COMMENTS
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SITE INFORMATION:
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KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

FA NUMBER:
13800691

POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
PANEL SCHEDULE

SHEET NUMBER:
E-3

ELECTRICAL SPECIFICATIONS:

PART 1 GENERAL

1.01 CODES REQUIREMENTS

A. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE GENERAL CONDITIONS AND THE SUPPLEMENTARY CONDITIONS OF THE PROJECT SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR PROVIDING LABOR, MATERIALS, TOOLS, AND EQUIPMENT TO COMPLETE THE INSTALLATION AS SHOWN IN THE DRAWINGS.

B. ALL ELECTRICAL WORK SHALL COMPLY WITH ALL LAWS, ORDINANCES, UTILITY COMPANY REGULATIONS AS WELL AS THE LATEST EDITIONS OF THE FOLLOWING:
NEC (NATIONAL ELECTRIC CODE),
NEMA (NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION),
NFC (NATIONAL FIRE CODE),
NFPA (NATIONAL FIRE PROTECTION ASSOCIATION),
OSHA (OCCUPATIONAL SAFETY AND HEALTH ACT), AND
UL (UNDERWRITER LABORATORIES).

C. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE ELECTRICAL UTILITY COMPANY FOR INSTALLATION OF METERED ELECTRICAL SERVICE TO THE EQUIPMENT INSTALLATION. CONTRACTOR TO VERIFY AND COMPLY WITH ALL ELECTRIC UTILITY COMPANY REQUIREMENTS. CONTRACTOR SHALL INCLUDE IN BID ALL COSTS RELATED TO INSTALLATION OF METERED SERVICE TO OWNER'S EQUIPMENT INCLUDING BUT NOT LIMITED TO FEES, DEPOSITS AND AID TO CONSTRUCTION.

D. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH TELEPHONE COMPANY FOR INSTALLATION OF TELEPHONE SERVICE. CONTRACTOR SHALL VERIFY WITH OWNER TELEPHONE SERVICE REQUIREMENTS. CONTRACTOR SHALL VERIFY AND COMPLY WITH ALL TELEPHONE COMPANY REQUIREMENTS FOR PROVISIONING OF SERVICE TO EQUIPMENT INSTALLATION. WHERE THE TELEPHONE COMPANY DEMARCATION POINT WILL BE OUTSIDE OWNER'S EQUIPMENT, CONTRACTOR SHALL PROVIDE A 24 AWG CABLE BETWEEN TELEPHONE COMPANY DEMARCATION POINT AND OWNER'S EQUIPMENT.

E. THE WORD "PROVIDE" DENOTES FURNISH AND INSTALL.

F. THE OPERATION OF ALL ELECTRICAL SYSTEMS SHALL BE DEMONSTRATED TO THE OWNER AT A TIME DIRECTED BY THE OWNER'S REPRESENTATIVE.

G. THE CONTRACTOR SHALL VISIT THE SITE AND INCLUDE IN BID ALL COSTS ASSOCIATED WITH THE REMOVAL AND/OR RELOCATION OF EXISTING UTILITIES ON THE SITE. INTERRUPTION OF EXISTING SERVICES MAY ONLY BE PERFORMED WITH WRITTEN PERMISSION OF THE OWNER.

H. A SET OF CONTRACT DOCUMENTS SHALL BE MAINTAINED AT THE SITE. ALL CHANGES AND DEVIATIONS SHALL BE NEATLY MARKED. ALL ADDITIONS SHALL BE MARKED IN RED AND ALL DELETIONS SHALL BE MARKED IN GREEN. THESE DRAWINGS WILL BE KEPT SEPARATE FROM THOSE USED FOR CONSTRUCTION PURPOSES AND SHALL BE AVAILABLE FOR INSPECTION BY THE OWNER'S REPRESENTATIVE AT ALL TIMES. THIS SET OF "AS-BUILTS" SHALL BE DELIVERED TO THE OWNER'S REPRESENTATIVE UPON THE COMPLETION OF THE CONTRACT.

I. TRENCHES SHALL BE EXCAVATED TO THE DEPTH REQUIRED FOR THE UTILITIES INVOLVED. ALL TRENCH BOTTOMS SHALL BE FREE OF SOFT SPOTS OR STONES OR OTHER DEBRIS THAT COULD DAMAGE CONDUITS OR CONDUCTORS. TRENCHES THROUGH SPECIALLY TREATED OR SURFACED AREAS SHALL HAVE THE SURFACE CUT AN ADDITIONAL 8" ON EITHER SIDE OF THE OPEN TRENCH. ALL SUCH DISTURBED SURFACES ARE TO BE REPLACED EQUAL TO THE ORIGINAL CONSTRUCTION WITH RESPECT TO GRADE, MATERIAL TYPE, AND MATERIAL DEPTH. FOLLOWING ACCEPTANCE BY OWNER'S REPRESENTATIVE, TRENCHES SHALL BE BACK FILLED AND COMPACTED TO INSURE AGAINST DIFFERENTIAL SETTLING.

J. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, LICENSES, ETC. CERTIFICATE OF FINAL INSPECTION AND APPROVAL FROM LOCAL INSPECTOR IS TO BE OBTAINED BY CONTRACTOR AND FURNISHED TO OWNER.

K. ALL MATERIALS SHALL BE AS SPECIFIED UNLESS ALTERNATE HAS BEEN APPROVED BY THE ENGINEER SEVEN (7) DAYS BEFORE NOTICE TO PROCEED.

1.02 WARRANTY

A. THE CONTRACTOR SHALL WARRANT ALL WORK FOR A PERIOD OF FOURTEEN (14) MONTHS FROM THE DATE OF THE FINAL ACCEPTANCE. THE CONTRACTOR SHALL WARRANT ALL EQUIPMENT AND MATERIALS TO THE EXTENT OF THE MANUFACTURER'S WARRANTY.

PART 2 PRODUCTS

2.01 EQUIPMENT

A. CONTRACTOR IS RESPONSIBLE FOR THE PROVISION OF ALL EQUIPMENT NECESSARY, WHETHER SPECIFIED IN THE CONTRACT DOCUMENTS OR NOT, TO MAKE ALL ELECTRICAL SYSTEMS COMPLETE AND OPERATIONAL.

B. EQUIPMENT PROVIDED UNDER THIS CONTRACT SHALL BE NEW UNLESS OTHERWISE STATED ON THE DRAWINGS. ALL EQUIPMENT PROVIDED SHALL BE UL LISTED WHEN SUCH STANDARDS EXIST FOR THE TYPE OF EQUIPMENT BEING PROVIDED.

2.02 CONDUCTORS

A. ALL CONDUCTORS SHALL BE INSULATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE FOR THE PARTICULAR APPLICATION.

B. ALL WIRE USED NOT ASSOCIATED WITH THE EXTERIOR BURIED GROUND RING OR BONDS TO SAME SHALL BE COPPER INSULATED FOR 600 VOLTS. CONDUCTORS SHALL BE THHN OR EQUIVALENT, COLOR CODED.

C. COMPRESSION TYPE INSULATED CONNECTORS SHALL BE USED FOR #10 AWG AND SMALLER CONDUCTORS. MECHANICAL TERMINAL LUGS SHALL BE USED FOR CONDUCTORS LARGER THAN #10 AWG.

2.04 FUSES

A. FUSES PROVIDED IN THE MAIN SERVICE ENTRANCE EQUIPMENT SHALL BE CURRENT LIMITING, 200,000 RMS AMPERES SYMMETRICAL INTERRUPTING CAPACITY, REJECTION TYPE, BUSSMAN LIMITRON OR EQUIVALENT BY GOULD-SHAWMUT.

PART 3 EXECUTION

3.01 CONDUIT/RACEWAYS

A. ALL CONDUITS SHALL BE SIZED FOR THE CONDUCTORS THEY ARE TO ENCLOSE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. MINIMUM CONDUIT SIZE IS 1/2".

B. ALL CONDUIT USED FOR POWER SHALL BE SCHEDULE 40 PVC IF BELOW GRADE OR GALVANIZED RIGID IF ABOVE FINISHED GRADE UNLESS SPECIFIED OTHERWISE BY LOCAL CODES OR REGULATIONS. ALL CONDUIT FOR TELEPHONE SERVICE AND GROUNDING SHALL BE SCHEDULE 40 PVC. ALL SPARE AND EMPTY CONDUITS SHALL BE CAPPED. TWO PULL STRINGS OF 200 LB. TEST POLYETHYLENE CORD SHALL BE PROVIDED IN POWER, TELCO, AND ALL SPARE CONDUITS.

C. ALL EXPOSED CONDUIT SHALL BE SUPPORTED AS REQUIRED BY THE NATIONAL ELECTRIC CODE.

D. ALL SPARE, FULLY OPEN OR PARTIALLY OPEN CONDUITS TO BE SEALED WITH DUCT SEAL TO A MINIMUM DEPTH OF TWO INCHES FROM THE END OF THE CONDUIT. WHERE WIRING EXISTS IN CONDUIT TO BE SEALED, DUCT SEAL TO BE FORMED AROUND WIRING

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POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
ELECTRICAL NOTES

SHEET NUMBER:
E-4

CODED DRAWING NOTES

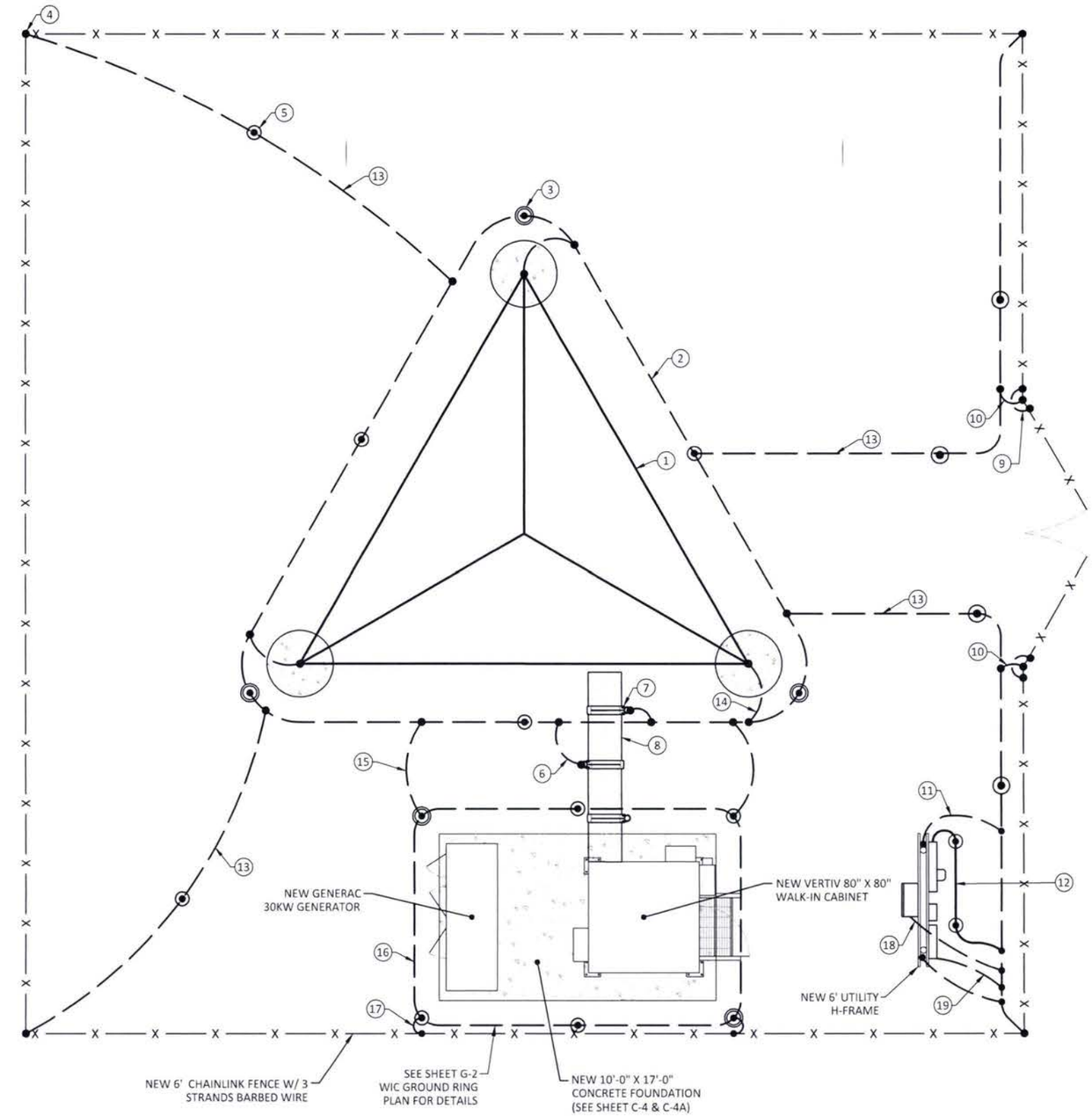
1. NEW TOWER
2. NEW TOWER GROUND RING 2' FROM FOUNDATION, BELOW FROST DEPTH
3. INSPECTION SLEEVE WITH TEST LOOP
4. CADWELD (TYP)
5. GROUND ROD WITH CADWELD TO BE SPACED EVENLY BETWEEN 10' AND 20' SEPARATION
6. GROUND EACH NEW ICE BRIDGE POST TO NEAREST GROUND RING WITH #2 SOLID BARE TINNED COPPER GROUND WIRE
7. NEW ICE BRIDGE POST TO BE FIELD LOCATED
8. NEW ICE BRIDGE
9. GATE GROUNDED TO GATE POST WITH #2 SOLID BARE TINNED COPPER GROUND WIRE (TYPX2)
10. GATE POST GROUNDED TO COMPOUND GROUND LEAD WITH #2 SOLID BARE TINNED COPPER GROUND WIRE
11. H-FRAME GROUNDED TO COMPOUND GROUND LEAD WITH #2 SOLID BARE TINNED COPPER GROUND WIRE (TYP EACH POST)
12. GROUND METER CENTER WITH 2/0 STRANDED BARE TINNED COPPER GROUND WIRE TO (2) GROUND RODS PLACED MIN 6' APART BEFORE GROUNDING TO GROUND LEAD (PER NEC 250.53 (A) REQUIREMENTS)
13. GROUND EACH CORNER FENCE POST TO TOWER GROUND RING WITH #2 SOLID BARE TINNED COPPER GROUND WIRE (TYP 4 PLACES)
14. GROUND TOWER TO TOWER GROUND RING WITH #2 SOLID BARE TINNED COPPER GROUND WIRE (TYP 3 PLACES)
15. GROUND WIC GROUND RING TO TOWER GROUND RING WITH #2 SOLID BARE TINNED COPPER GROUND WIRES (TYP X2)
16. WIC GROUND RING 2' FROM FOUNDATION, BELOW FROST DEPTH, #2 SOLID BARE TINNED COPPER GROUND WIRE
17. GROUND WIC GROUND RING TO ALL FENCE POSTS WITHIN 7' OF GROUND RING WITH #2 SOLID BARE TINNED COPPER GROUND WIRE
18. GROUND FIBER BOX TO COMPOUND GROUND LEAD WITH #2 SOLID BARE TINNED COPPER GROUND WIRE
19. GROUND TOWER LIGHTING CONTROL BOX TO COMPOUND GROUND LEAD WITH #2 SOLID BARE TINNED COPPER GROUND WIRE

NOTE:
IF ROCK IS ENCOUNTERED THEN AN ALTERNATIVE GROUNDING DESIGN SUCH AS COPPER PLATES AND GEM CAN BE USED

NOTE: ACTUAL RESISTANCE MUST BE MEASURED PRIOR TO CONNECTION TO THE POWER GRID. GROUND RODS SHALL BE BETWEEN 10' AND 20' APART, AND INSPECTION SLEEVES SHALL BE NO FURTHER THAN 45' APART.

LEGEND

- 2/0 STRANDED TINNED COPPER GROUND WIRE
- #2 SOLID TINNED COPPER GROUND WIRE
- INSPECTION WELL W/ TEST LOOP
- 5/8" x 10' COPPER CLAD GROUND ROD SPACED AT 10' TO 20' O.C.:
  - GTC-181T FOR #2, #90 SHOT
  - GTC-162G FOR 2/0, #115 SHOT
- CADWELD CONNECTION PARALLEL TAP CONNECTION:
  - PCC-1T1T FOR #2 TO #2, #65 SHOT
  - PCC-2G1T FOR 2/0 TO #2, #90 SHOT
- PRIMARY BOND W/ INSPECTION SLEEVE
- NEW FENCE LINE



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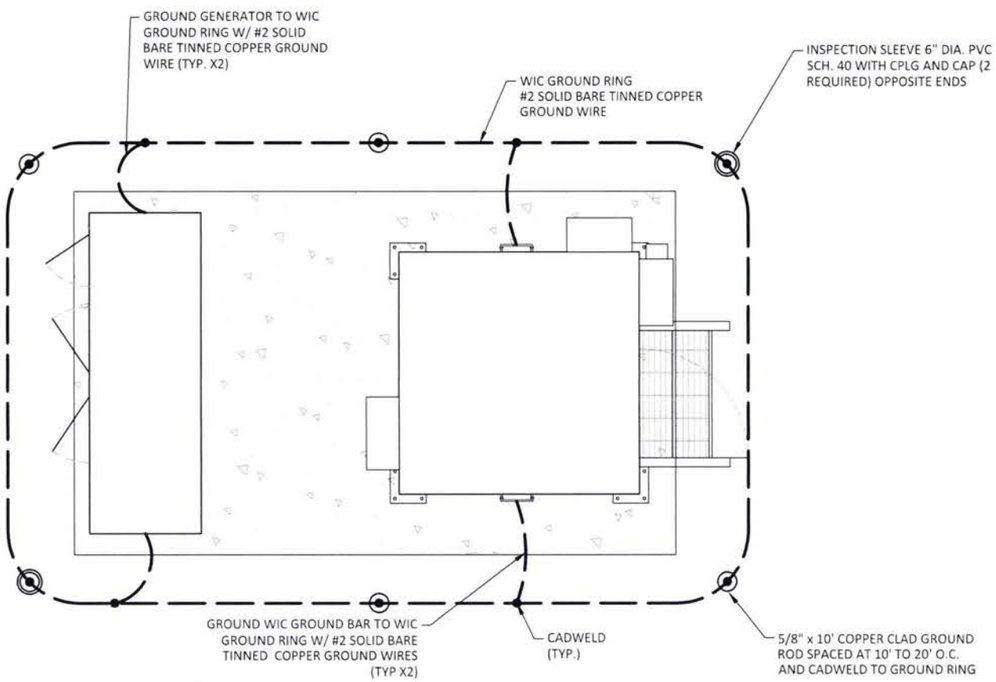
SHEET TITLE:
SITE GROUNDING PLAN

SHEET NUMBER:
G-1

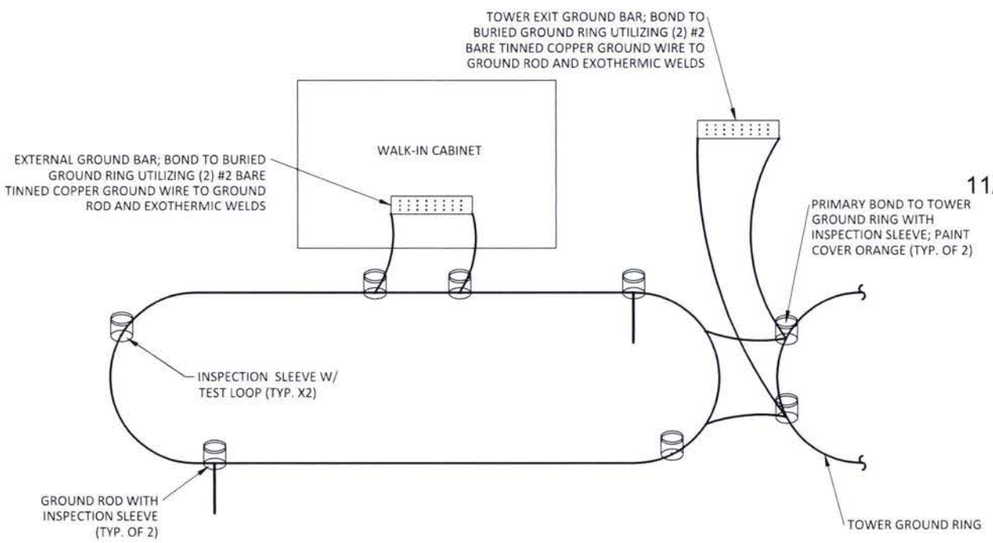
NOTES

1. ALL GROUNDING DETAILS TO FLOW CLOCKWISE.
2. CONTACT CONSTRUCTION MANAGER BEFORE BACKFILLING GROUNDING INSTALLATION.
3. PLACE INSPECTION SLEEVE AT OPPOSITE ENDS OF WIC.
4. MINIMUM 3 FOOT SPACING BETWEEN THE GROUND CONNECTIONS TO THE MAIN TOWER GROUND RING.



WIC GROUND RING PLAN

NOT TO SCALE



WIC GROUNDING DIAGRAM

NOT TO SCALE

LEGEND

- #2 SOLID BARE TINNED COPPER GROUND WIRE
- INSPECTION SLEEVE W/ TEST LOOP
- 5/8" x 10' COPPER CLAD GROUND ROD SPACED AT 10' TO 20' O.C.:
  - GTC-181T FOR #2, #90 SHOT
- CADWELD CONNECTION PARALLEL TAP CONNECTION:
  - PCC-1T1T FOR #2 TO #2, #65 SHOT

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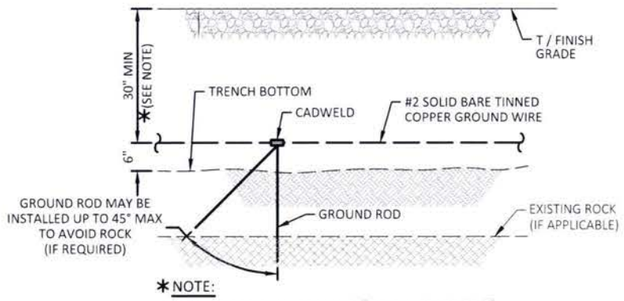
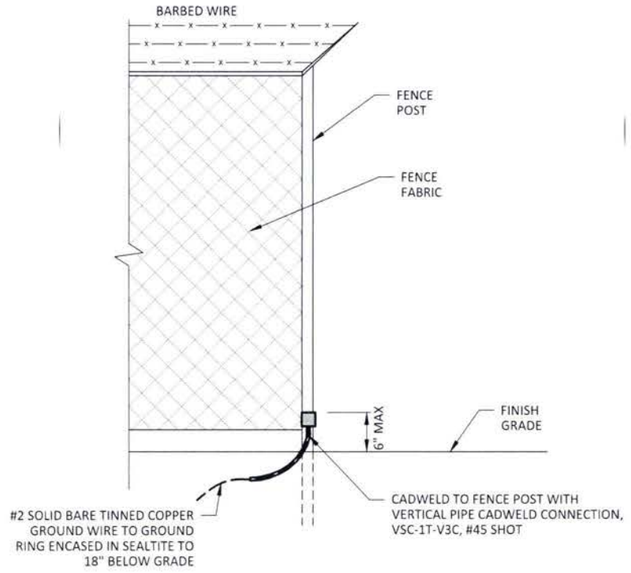
SHEET TITLE:
WIC GROUNDING DETAILS

SHEET NUMBER:
G-2



GROUND ROD DETAIL

NOT TO SCALE



FENCE GROUNDING DETAIL

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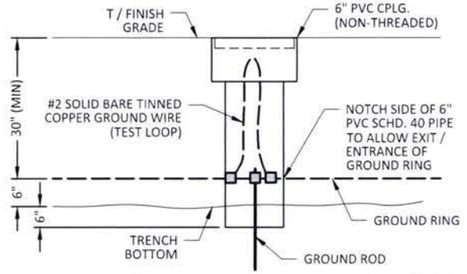
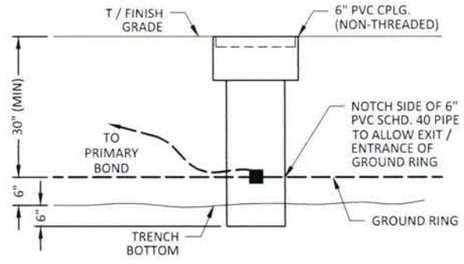


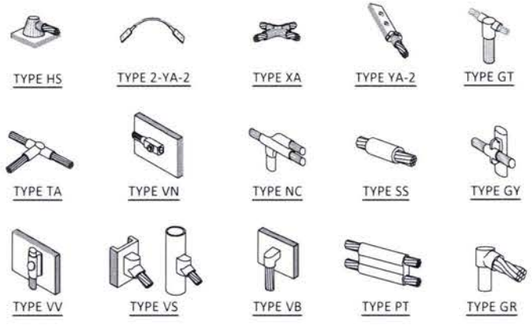
INSPECTION SLEEVE WITH TEST LOOP DETAIL

NOT TO SCALE



PRIMARY BOND W/ INSPECTION SLEEVE DETAIL

NOT TO SCALE

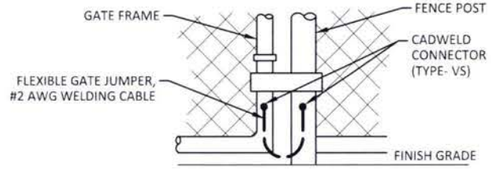


EXOTHERMIC WELD

NOT TO SCALE

NOTE:

ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.



FLEXIBLE GATE JUMPER DETAIL

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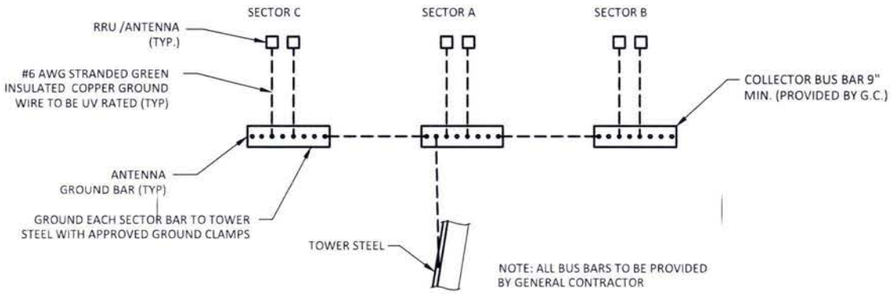
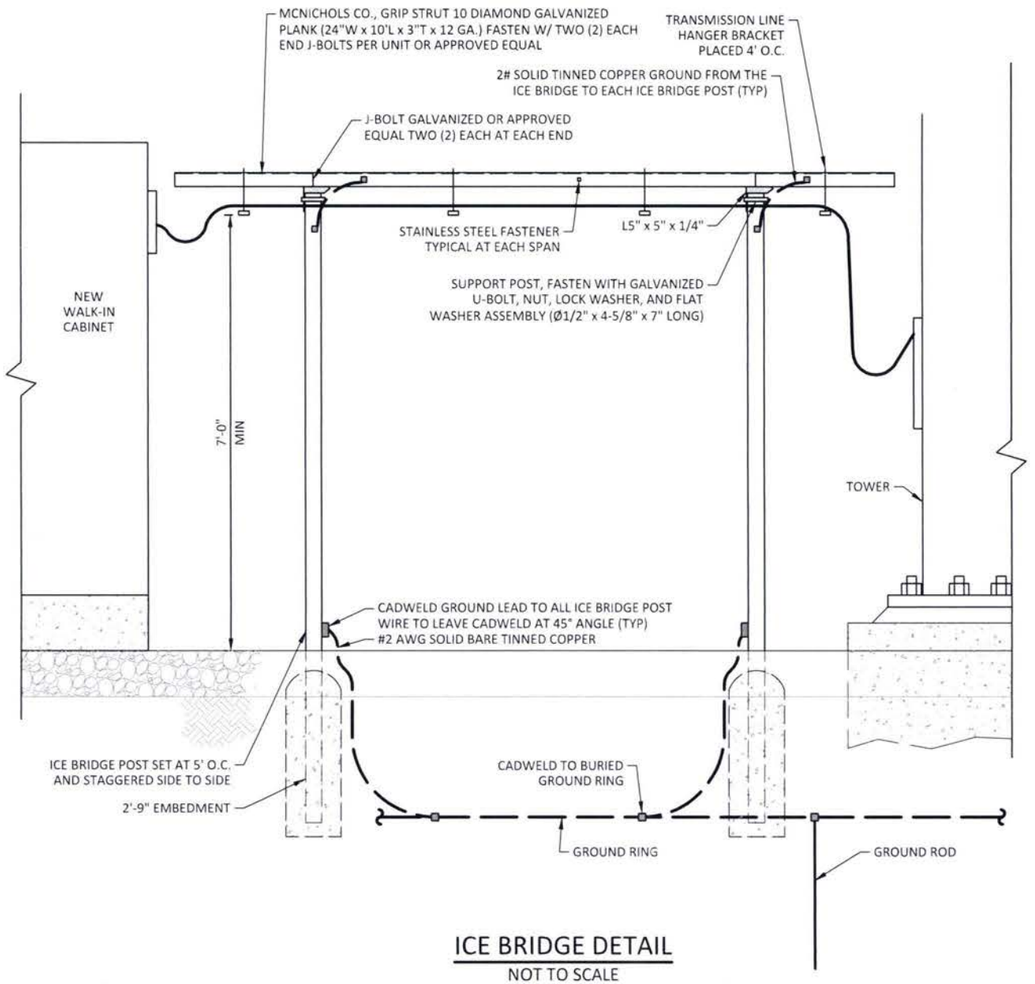


SECTOR GROUNDING DIAGRAM

NOT TO SCALE



ICE BRIDGE DETAIL

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GROUNDING DETAILS

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G-4

GROUNDING SPECIFICATIONS:

3.02 GROUNDING

A. ALL GROUNDING TO COMPLY WITH LATEST VERSION OF "AT&T GROUNDING STANDARD FOR WIRELESS COMMUNICATION FACILITIES".

B. ALL SERVICE EQUIPMENT, CONDUIT, SUPPORTS, CABINETS, FIXTURES, ETC. AND THE GROUND CIRCUIT CONDUCTOR SHALL BE GROUNDED IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE.

C. IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE, A SEPARATE, PROPERLY SIZED GROUNDING CONDUCTOR SHALL BE PROVIDED IN ALL RACEWAYS.

D. ALL INSULATED GROUND CONDUCTORS SHALL BE COLOR-CODED GREEN. INSULATED GROUND SYSTEM SHALL BE TERMINATED WITH INSULATED BUSHINGS.

E. BURIED GROUND RING:

1. ALL BURIED GROUND CONDUCTORS AND LEADS TERMINATING ON THE BURIED GROUND RING SHALL BE #2 AWG SOLID BARE TINNED COPPER.
2. THE BURIED GROUND RING IS TO BE INSTALLED A MINIMUM 6" BELOW LOCAL FROST LINE AND A MINIMUM OF 2' FROM ALL EXISTING AND PROPOSED EQUIPMENT PADS, BUILDINGS, OR FOUNDATIONS UNLESS NOTED ON THE DRAWINGS. EXISTING BURIED GROUND RING TO BE EXPOSED AS REQUIRED FOR CONNECTIONS AS DEPICTED ON DRAWINGS.
3. ALL CONNECTIONS TO THE BURIED GROUND CONDUCTOR SHALL UTILIZE PARALLEL-TYPE EXOTHERMIC WELDS. ALL CONNECTIONS TO THE BURIED GROUND RING SHALL BE PLACED IN AN INSPECTION SLEEVE. A MAXIMUM OF THREE CONNECTIONS MAY BE MADE WITHIN ONE INSPECTION SLEEVE.
4. ALL LEADS FROM THE BURIED GROUND RING SHALL BE #2 AWG SOLID BARE TINNED COPPER.
5. FOR COLLOCATIONS, NEW BURIED GROUND RING, UPON FINAL APPROVAL FROM THE CONSTRUCTION MANAGER, SHALL BE ATTACHED TO EXISTING GROUND RING AT TWO POINTS AS SHOWN. AN INSPECTION SLEEVE WITH AN ORANGE REMOVABLE COVER TO BE PROVIDED AT BOTH CONNECTION POINTS.

F. GROUND RODS:

1. ALL GROUND RODS ARE TO BE A MINIMUM OF 10' IN VERTICAL LENGTH, 5/8" DIAMETER COPPER CLAD STEEL.
2. GROUND RODS TO BE DRIVEN VERTICALLY WITH THE TOPS LEFT A MINIMUM OF 6" BELOW LOCAL FROST LINE.
3. IF GROUND RODS CANNOT BE DRIVEN VERTICALLY, A MAXIMUM ANGLE OF 45° FROM VERTICAL, PARALLEL TO OR PERPENDICULAR AWAY FROM THE EQUIPMENT PAD, WILL BE ALLOWED.
4. THE BURIED GROUND CONDUCTOR IS TO BE EXOTHERMICALLY WELDED TO EACH GROUND ROD UTILIZING A T-TYPE CONNECTION
5. A MINIMUM OF FOUR GROUND RODS ARE TO BE USED.

G. GROUND BARS:

1. THE CELL REFERENCE GROUND BAR (CRGB) SHALL BE LOCATED AT A POINT BELOW THE END OF THE COAX TERMINATION PRIOR TO THE ENTRY POINT TO THE EQUIPMENT CABINET OR BENEATH HATCHPLATE FOR EQUIPMENT SHELTERS. CABINET.
   a. THE CRGB SHALL BE MOUNTED UTILIZING ISOLATING HARDWARE.
   b. THE CRGB SHALL BE ATTACHED TO THE BURIED GROUND RING VIA TWO #2 LEADS EXOTHERMICALLY WELDED TO THE BAR. THE CRGB LEADS SHALL BOND TO THE BURIED GROUND RING AT TWO POINTS SEPARATED BY NOT LESS THAN TWO FEET. LEADS TO THE CRGB SHALL BE MADE AS STRAIGHT AS PRACTICAL.
2. THE TOWER EXIT GROUND BAR SHALL BE PLACED BELOW THE TRANSITION FROM VERTICAL TO HORIZONTAL OF THE COAXIAL CABLE AT THE BASE OF THE TOWER.
   a. THE TOWER EXIT GROUND BAR SHALL BE BE 1/4"X4"X24".
   b. THE TOWER EXIT GROUND BAR SHALL BE ATTACHED TO THE TOWER OR ICE-BRIDGE UTILIZING ISOLATING HARDWARE.
   c. THE TOWER EXIT GROUND BAR SHALL BE ATTACHED TO THE BURIED GROUND RING VIA TWO #2 LEADS EXOTHERMICALLY WELDED TO THE BAR.
   d. THE TOWER EXIT GROUND BAR LEADS SHALL BOND TO THE BURIED GROUND RING AT TWO POINTS SEPARATED BY NOT LESS THAN TWO FEET.
   e. LEADS TO THE TOWER EXIT GROUND BAR SHALL HAVE MINIMAL CURVES AND BE PROPERLY SUPPORTED SO AS TO NOT TOUCH THE TOWER.
3. TOWER GROUND BARS:
   a. TOWER GROUND BARS TO BE 1/4"X4"X24".
   b. TOWER GROUND BARS SHALL ACCEPT BOTH 3/4" AND 1" SPACED DOUBLE HOLE LUGS.
   c. GROUND BARS SHALL BE ATTACHED TO THE TOWER UTILIZING NON-INSULATING HARDWARE. THE USE OF INSULATING HARDWARE IS PROHIBITED. ANGLE ADAPTERS OR ROUND MEMBER ADAPTERS MAY NOT BE USED FOR GROUND BAR ATTACHMENT.
   d. FOR ANTENNA INSTALLATIONS AT ELEVATIONS GREATER THAN 200 FEET AN INTERMEDIATE GROUND BAR SHALL BE INSTALLED.
4. ALL COAX GROUNDS SHALL BE INSTALLED SUCH THAT THE LEADS FALL DOWNWARD TO THE CONNECTION TO THE GROUND BAR. ALL COAX GROUNDS SHALL BE BONDED TO THE GROUND BAR UTILIZING TWO HOLE LUGS.
5. GROUND BARS MUST BE PROPERLY CLEANED BEFORE LEADS ARE ATTACHED. ALL CONNECTIONS SHALL BE COATED WITH AN ANTI-OXIDIZING MATERIAL.

H. TOWER GROUNDING:

1. ALL TOWERS SHALL HAVE THREE SEPARATE GROUND LEADS FROM THE GROUND RING BONDED TO THE TOWER.
   a. GROUND LEADS TO TOWER SHALL ONLY BE EXOTHERMICALLY WELDED TO MANUFACTURER'S GROUNDING TAB OR THE BASEPLATES. NEVER EXOTHERMICALLY WELD, BRAZE OR WELD TO THE TOWER STRUCTURE.
2. ALL SPARE GROUND LEADS FROM THE TOWER GROUND RING SHALL BE CUT OFF AT 12" ABOVE GRADE AND ZIP TIED OR TAPED TO THE ATTACHED TOWER LEAD.

I. BONDING:

1. ALL EXTERIOR METAL OBJECTS ARE TO BE BONDED TO THE BURIED GROUND RING IN ACCORDANCE WITH THE PROJECT SCOPE.
2. ANY METALLIC OBJECT WITHIN 6' OF THE BURIED GROUND RING NOT SHOWN ON THESE DRAWINGS SHALL BE BONDED TO THE BURIED GROUND RING.
3. ALL EXTERIOR MECHANICAL CONNECTIONS ARE TO BE COATED WITH COPPERSHIELD ON CONTACTING SURFACES PRIOR TO MAKING CONNECTION. FOLLOWING COMPLETION OF CONNECTION, ALL EXPOSED SURFACES OF CONNECTION ARE TO BE COATED WITH COPPERSHIELD.
4. ALL INTERNAL AND CABINET GROUNDING PIGTAILS OF NEW EQUIPMENT TO BE BONDED TO BURIED GROUND RING.

J. GROUND LEADS:

1. GROUND CONNECTIONS SHOULD BE AS SHORT AS POSSIBLE. UNNECESSARY BENDS SHOULD BE AVOIDED. MINIMUM BENDING RADIUS FOR ANY GROUND LEAD IS 8".
2. ALL GROUND LEADS EXTENDING ABOVE THE FINISHED GRADE OF THE SITE SHALL BE PROTECTED IN 1/2" NONMETALLIC PVC CONDUIT SUPPORTED AT MAXIMUM INTERVALS OF 18". MAXIMUM CONDUIT SIZE TO BE USED ON ANY GROUND LEAD IS 3/4". ABOVE GRADE OPENINGS IN GROUNDING CONDUITS TO BE SEALED WITH SILICONE.
3. ALL GROUNDING WIRE AND LEADS SHALL FLOW IN A SMOOTH CLOCKWISE PATH WITH NO KINKS OR SHARP BENDS.

K. EXOTHERMIC WELDS:

1. ALL BELOW GRADE CONNECTIONS SHALL BE EXOTHERMIC WELDS.
2. ALL EXOTHERMIC WELDS TO ABOVE GRADE STEEL STRUCTURES MUST BE COLD GALVANIZED AND SPRAYED WITH MATCHING RUST INHIBITOR PAINT.
3. PRIOR TO MAKING EXOTHERMIC CONNECTIONS, ALL SURFACES TO BE WELDED MUST BE CLEANED OF ALL CONTAMINANTS UTILIZING A BRONZE BRUSH. ALL EXOTHERMIC CONNECTIONS TO GALVANIZED SURFACES ARE TO PAINTED WITH GALVANIZING PAINT.

L. TESTING

1. CONTACT OWNER REPRESENTATIVE A MINIMUM OF 24 HOURS BEFORE TESTING.
2. THE NEW GROUND SYSTEM SHOULD BE TESTED INDEPENDENTLY OF ALL OTHER GROUNDING ON THE SITE.
3. REQUIREMENT FOR RESISTIVITY TO EARTH IS 5-OHMS OR LESS. CONTRACTOR IS RESPONSIBLE FOR MEETING CRITERIA.
4. PERFORM THREE POINT FALL OF POTENTIAL GROUNDING (MEGGER) TEST UTILIZING THE "AEMC 4500" TEST INSTRUMENT OR EQUIVALENT FROM A MINIMUM OF TWO SEPARATE POINTS IN TWO SEPARATE DIRECTIONS FROM THE POINT OF CONTACT.
5. PERFORM GROUND TESTING ONLY IF NO RAINFALL HAS OCCURRED WITHIN THREE DAYS, AND THERE IS NO STANDING WATER IN THE GROUND WIRE TRENCHES.
6. THE CONTRACTOR SHALL DOCUMENT MEGGER TEST RESULTS FOR THE LOCATION OF ALL UNDERGROUND GROUNDING COMPONENTS AND PHOTOGRAPH WITH A DIGITAL CAMERA THE ENTIRE INSTALLED GROUNDING SYSTEM PRIOR TO BACKFILLING ANY OPEN TRENCHES.
7. FORWARD THE MEGGER TEST DOCUMENTATION TO THE CONSTRUCTION MANAGER AND INCORPORATE AS PART OF THE FINAL SITE ACCEPTANCE DOCUMENTATION.
8. ADDITIONAL WORK REQUIRED TO ACHIEVE A RESISTANCE OF 5 OHMS OR LESS MUST BE APPROVED BY THE CONSTRUCTION MANAGER PRIOR TO IMPLEMENTATION.

M. UPON INSPECTION AND APPROVAL BY THE CONSTRUCTION MANAGER, THE GROUNDING SYSTEM MAY BE BACK-FILLED.

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

PREPARED FOR:
Diamond Communications LLC

PREPARED FOR:
at&t

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

11/12/2020
EN PERMIT: 3594

CONSTRUCTION DRAWINGS

REV	DATE	DESCRIPTION
A	10.08.20	ISSUED FOR REVIEW
B	10.29.20	CLIENT COMMENTS
C	10.30.20	CLIENT COMMENTS
D	11.10.20	STARTING ADDRESS
E	11.12.20	ISSUED FOR ZONING

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

DIAMOND SITE NUMBER:
KY036

FA NUMBER:
13800691

POD NUMBER: 20-69321

DRAWN BY: ARH
CHECKED BY: MEP
DATE: 10.08.20

SHEET TITLE:
GROUNDING NOTES

SHEET NUMBER:
G-5

EXHIBIT C
TOWER AND FOUNDATION DESIGN

Sabre Industries™
INNOVATION DELIVERED

Structural Design Report

255' S3TL Series HD1 Self-Supporting Tower
Site: Smith Hollow, KY
Site Number: KY036

Prepared for: DIAMOND COMMUNICATIONS LLC
by: Sabre Industries ™

Job Number: 471123

November 6, 2020

Tower Profile 1-2

Foundation Design Summary (Preliminary) 3

Maximum Leg Loads 4

Maximum Diagonal Loads 5

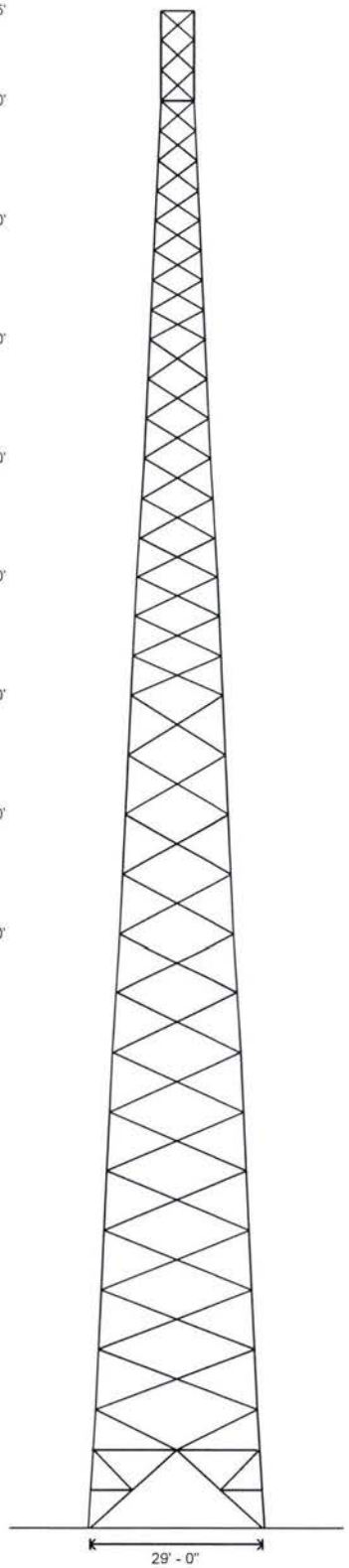
Maximum Foundation Loads 6

Calculations 7-20

11/9/20

Digitally Signed By Keith Tindall
DN: c=US, st=Texas, l=Alvarado, o=SABRE INDUSTRIES, INC., cn=Keith Tindall, email=kjtindall@sabreindustries.com Date: 2020.11.09 14:55:47

Legs	12.75 OD X .375		8.625 OD X .500			5.563 OD X .500			A	B	C	D
Diagonals	E	F	L 4 X 4 X 5/16	L 4 X 4 X 1/4	G	H	L 3 X 3 X 1/4	L 3 X 3 X 3/16	I	J	L 2 X 2 X 3/16	
Horizontals	K		NONE								L	L NONE
Internals	M		NONE									
Sub-Diagonals	N		NONE									
Sub-Horizontals	I		NONE									
Brace Bolts	(2) 3/4"		(2) 5/8"		(1) 3/4"			(1) 5/8"				
Top Face Width	27"		25'	23'	21'	19'	17'	15'	13'	11'	9'	7"	5'
Panel Count/Height	O	P	12 @ 10'						9 @ 6.6667'			11 @ 5'	
Section Weight	7805		7083	6366	5777	4864	4615	4394	3468	2849	2421	1900	1207	667



Design Criteria - ANSI/TIA-222-G

ASCE 7-16 Ultimate Wind Speed (No Ice)	105 mph
Wind Speed (Ice)	30 mph
Design Ice Thickness	1.50 in
Structure Class	II
Risk Category	II
Exposure Category	C
Topographic Category	3
Crest Height	430 ft

Base Reactions

Total Foundation		Individual Footing	
Shear (kips)	118.94	Shear (kips)	70.06
Axial (kips)	240.49	Compression (kips)	670
Moment (ft-kips)	16033	Uplift (kips)	587
Torsion (ft-kips)	-89.65		

Material List

Display	Value
A	5.563 OD X .375
B	4.500 OD X .337
C	3.500 OD X .216
D	2.375 OD X .154
E	L 6 X 4 X 3/8
F	L 5 X 5 X 5/16
G	L 4 X 3 1/2 X 1/4 (SLV)
H	L 3 1/2 X 3 1/2 X 1/4
I	L 2 1/2 X 2 1/2 X 1/4
J	L 2 1/2 X 2 1/2 X 3/16
K	L 4 X 4 X 1/4
L	L 2 X 2 X 3/16
M	L 3 X 3 X 1/4
N	L 3 X 3 X 3/16
O	1 @ 13.333'
P	1 @ 6.667'

Notes

1) All legs are A500 (50 ksi Min. Yield).
2) All braces are A572 Grade 50.
3) All brace bolts are A325-X.
4) The tower model is S3TL Series HD1.
5) Transmission lines are to be attached to 15 hole waveguide ladders with stackable hangers.
6) Azimuths are relative (not based on true north).
7) Foundation loads shown are maximums.
8) All unequal angles are oriented with the short leg vertical.
9) Weights shown are estimates. Final weights may vary.
10) Tower Rating: 99.35%
11) This tower design and, if applicable, the foundation design(s) shown on the following page(s) also meet or exceed the requirements of the 2018 Kentucky Building Code.

Sabre Industries
INNOVATION DELIVERED

Sabre Industries
7101 Southbridge Drive
P.O. Box 658
Sioux City, IA 51102-0658
Phone: (712) 258-6890
Fax: (712) 279-0814

Job:	471123
Customer:	DIAMOND COMMUNICATIONS LLC
Site Name:	Smith Hollow, KY KY036
Description:	255' S3TL
Date:	2020.11.06 By: DJH

Designed Appurtenance Loading

Elev	Description	Tx-Line
250	3 EHD V-Boom - 12ft Face - 3ft Standoff (AT&T approved)	
250	(1) 40,000 sq. in. antenna loading (below top)	(28) 1 5/8"

Elev	Description	Tx-Line
235	(1) 30,000 sq. in. antenna loading (below top)	(12) 1 5/8"
220	(1) 30,000 sq. in. antenna loading (below top)	(12) 1 5/8"

Sabre Industries
INNOVATION DELIVERED

Sabre Industries
7101 Southbridge Drive
P.O. Box 658
Sioux City, IA 51102-0658
Phone: (712) 258-6690
Fax: (712) 279-0814

Job:	**471123**
Customer:	DIAMOND COMMUNICATIONS LLC
Site Name:	Smith Hollow, KY KY036
Description:	255' S3TL
Date:	2020.11.06 By: DJH

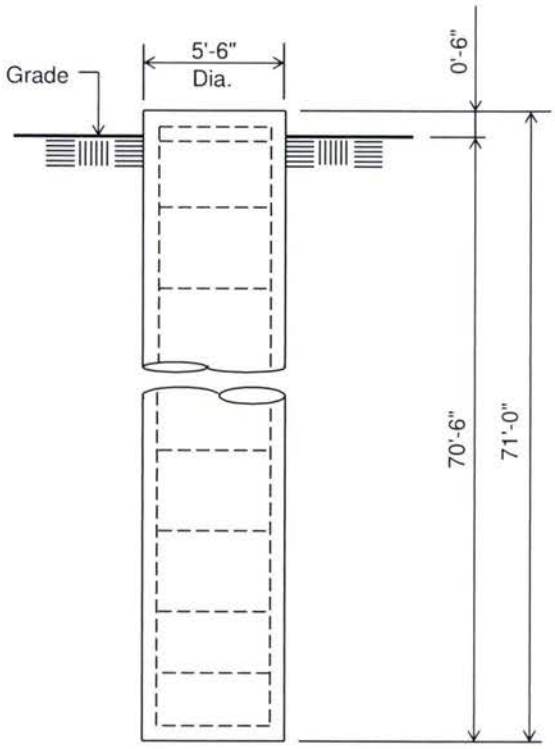
Sabre Industries
INNOVATION DELIVERED

No.: 471123
Date: 11/06/20
By: DJH

Customer: DIAMOND COMMUNICATIONS LLC
Site: Smith Hollow, KY KY036

255 ft. Model S3TL Series HD1 Self Supporting Tower

PRELIMINARY -NOT FOR CONSTRUCTION-



ELEVATION VIEW
(62.5 cu. yds.)
(3 REQUIRED; NOT TO SCALE)

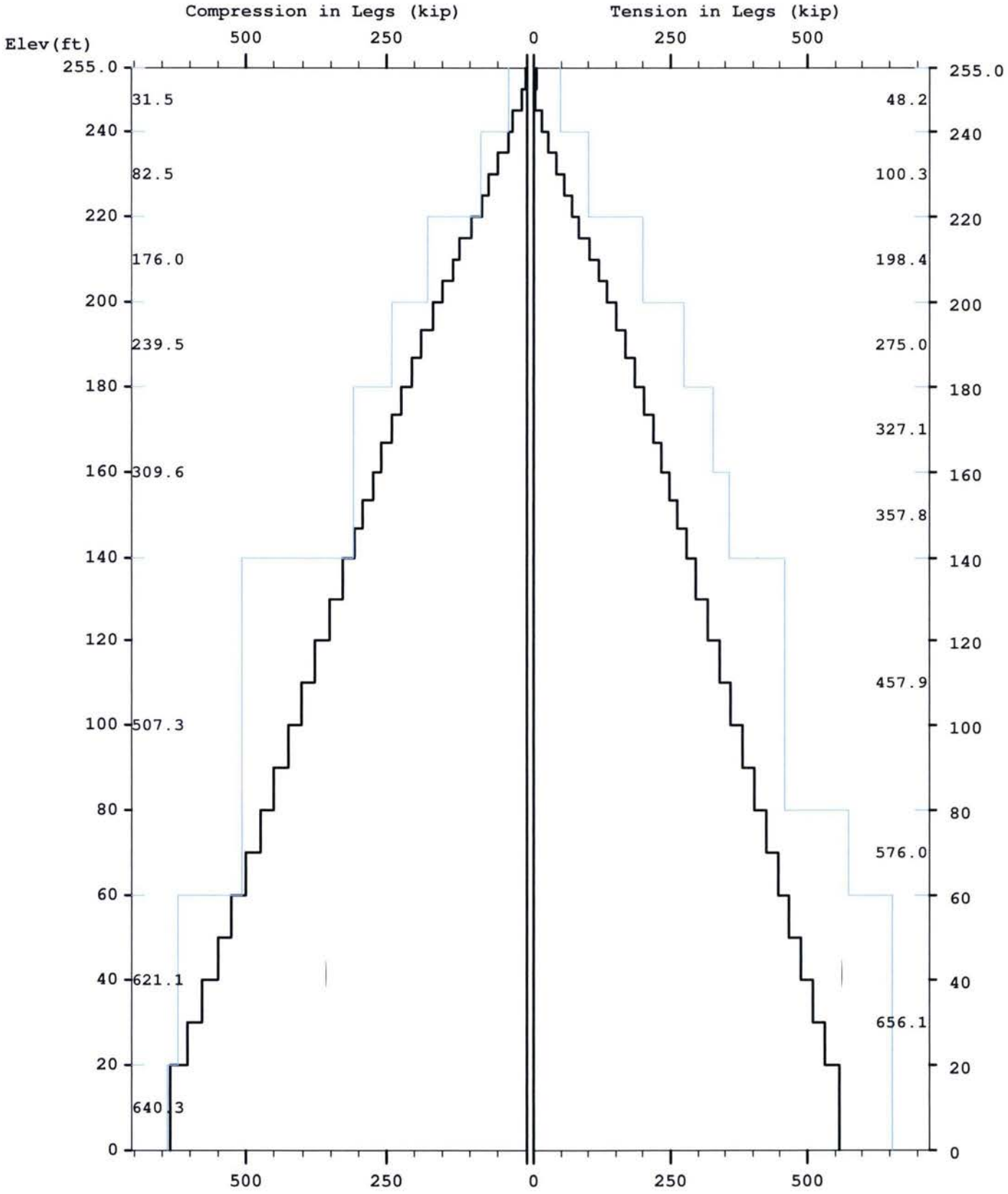
Notes:

1) Concrete shall have a minimum 28-day compressive strength of 4,500 psi, in accordance with ACI 318-11.
2) Rebar to conform to ASTM specification A615 Grade 60.
3) All rebar to have a minimum of 3" concrete cover.
4) All exposed concrete corners to be chamfered 3/4".
5) The foundation design is based on the preliminary geotechnical study by Power of Design Group, LLC; project# 20-70355; dated October 7, 2020.
6) See the geotechnical report for drilled pier installation requirements, if specified.
7) The foundation is based on the following factored loads:
   Factored uplift (kips) = 587.00
   Factored download (kips) = 670.00
   Factored shear (kips) = 70.00
8) The bottom anchor bolt template shall be positioned as closely as possible to the bottom of the anchor bolts.

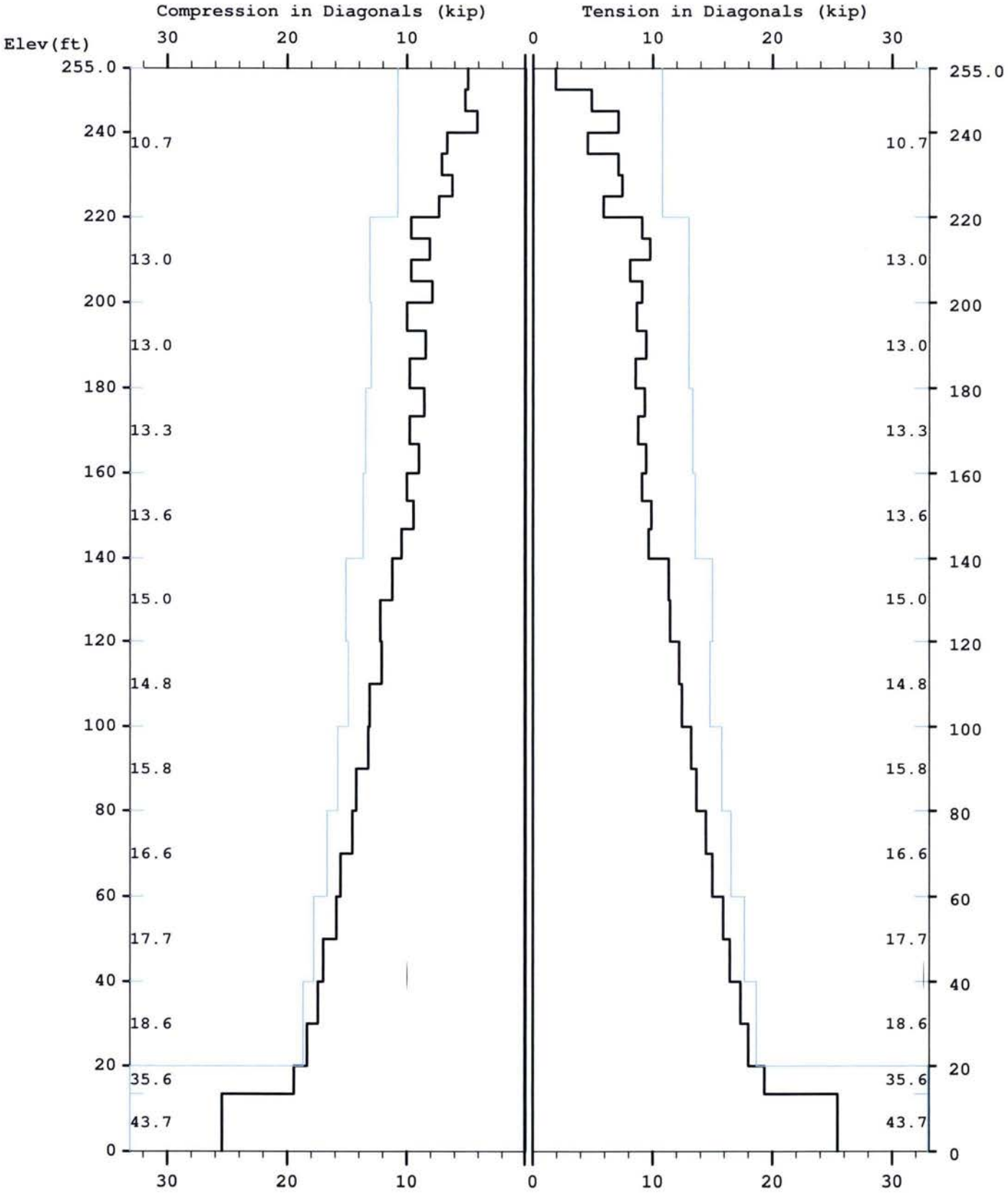
Rebar Schedule per Pier	
Pier	(20) #10 vertical rebar w/ #4 rebar ties, two (2) within top 5" of pier then 12" C/C
Anchor Bolts per Leg	
(6) 1.75" dia. x 87" F1554-105 on a 18" B.C. w/ 10.5" max. projection above concrete.	

7101 Southbridge Dr - P.O. Box 658 - Sioux City, IA 51102-0658 - Phone 712.258.6690 - Fax 712.258.8250

Maximum

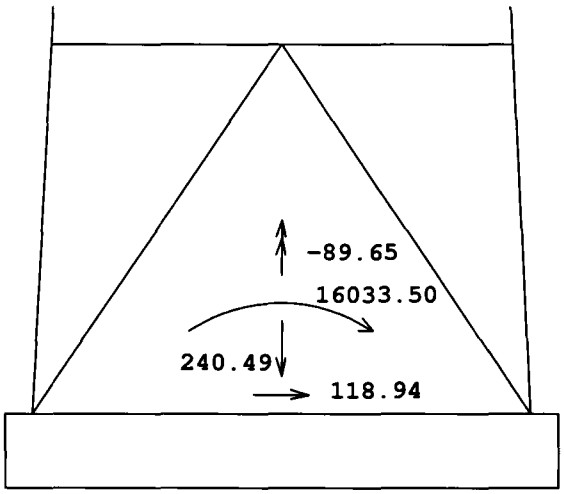

Compression in Legs (kip)
Tension in Legs (kip)
Elev(ft)
500
250
0
250
500
255.0
240
220
200
180
160
140
120
100
80
60
40
20
0
31.5
82.5
176.0
239.5
309.6
507.3
621.1
640.3
48.2
100.3
198.4
275.0
327.1
357.8
457.9
576.0
656.1

Maximum

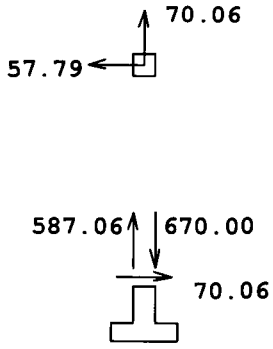

Compression in Diagonals (kip)
Tension in Diagonals (kip)
Elev(ft)
30
20
10
0
10
20
30
255.0
240
220
200
180
160
140
120
100
80
60
40
20
0
10.7
13.0
13.0
13.3
13.6
15.0
14.8
15.8
16.6
17.7
18.6
35.6
43.7

Maximum

TOTAL FOUNDATION LOADS (kip, ft-kip)



INDIVIDUAL FOOTING LOADS (kip)



MAST GEOMETRY (ft)

PANEL TYPE	NO.OF LEGS	ELEV.AT BOTTOM	ELEV.AT TOP	F.W..AT BOTTOM	F.W..AT TOP	TYPICAL PANEL HEIGHT
X	3	250.00	255.00	5.00	5.00	5.00
X	3	240.00	250.00	5.00	5.00	5.00
X	3	235.00	240.00	5.50	5.00	5.00
X	3	220.00	235.00	7.00	5.50	5.00
X	3	200.00	220.00	9.00	7.00	5.00
X	3	180.00	200.00	11.00	9.00	6.67
X	3	160.00	180.00	13.00	11.00	6.67
X	3	140.00	160.00	15.00	13.00	6.67
X	3	120.00	140.00	17.00	15.00	10.00
X	3	100.00	120.00	19.00	17.00	10.00
X	3	80.00	100.00	21.00	19.00	10.00
X	3	60.00	80.00	23.00	21.00	10.00
X	3	40.00	60.00	25.00	23.00	10.00
X	3	20.00	40.00	27.00	25.00	10.00
V	3	13.33	20.00	27.67	27.00	6.67
A	3	0.00	13.33	29.00	27.67	13.33

MEMBER PROPERTIES

MEMBER TYPE	BOTTOM ELEV ft	TOP ELEV ft	X-SECTN AREA in.sq	RADIUS OF GYRAT in	ELASTIC MODULUS ksi	THERMAL EXPANSN /deg
LE	240.00	255.00	1.075	0.787	29000.	0.0000117
LE	220.00	240.00	2.228	0.787	29000.	0.0000117
LE	200.00	220.00	4.407	0.787	29000.	0.0000117
LE	180.00	200.00	6.111	0.787	29000.	0.0000117
LE	140.00	180.00	7.952	0.787	29000.	0.0000117
LE	60.00	140.00	12.763	0.787	29000.	0.0000117
LE	0.00	60.00	14.579	0.787	29000.	0.0000117
DI	220.00	255.00	0.715	0.617	29000.	0.0000117
DI	200.00	220.00	0.902	0.617	29000.	0.0000117
DI	180.00	200.00	1.188	0.617	29000.	0.0000117
DI	160.00	180.00	1.090	0.617	29000.	0.0000117
DI	140.00	160.00	1.438	0.617	29000.	0.0000117
DI	120.00	140.00	1.688	0.617	29000.	0.0000117
DI	100.00	120.00	1.812	0.617	29000.	0.0000117
DI	80.00	100.00	1.938	0.617	29000.	0.0000117
DI	40.00	80.00	2.402	0.617	29000.	0.0000117
DI	20.00	40.00	2.859	0.617	29000.	0.0000117
DI	13.33	20.00	3.027	0.617	29000.	0.0000117
DI	0.00	13.33	3.609	0.617	29000.	0.0000117
HO	250.00	255.00	0.715	0.617	29000.	0.0000117
HO	235.00	240.00	0.715	0.617	29000.	0.0000117
HO	0.00	13.33	1.938	0.617	29000.	0.0000117
BR	0.00	13.33	1.438	0.000	29000.	0.0000117

FACTORED MEMBER RESISTANCES

BOTTOM ELEV	TOP ELEV	LEGS		DIAGONALS		HORIZONTALS		INT BRACING	
		COMP	TENS	COMP	TENS	COMP	TENS	COMP	TENS
ft	ft	kip	kip	kip	kip	kip	kip	kip	kip
250.0	255.0	31.48	48.15	10.74	10.74	8.46	8.46	0.00	0.00
240.0	250.0	31.48	48.15	10.74	10.74	0.00	0.00	0.00	0.00
235.0	240.0	82.52	100.35	10.74	10.74	8.46	8.46	0.00	0.00
220.0	235.0	82.52	100.35	10.74	10.74	0.00	0.00	0.00	0.00
200.0	220.0	175.98	198.45	13.03	13.03	0.00	0.00	0.00	0.00
180.0	200.0	239.46	274.95	13.00	13.00	0.00	0.00	0.00	0.00
160.0	180.0	309.64	327.10	13.34	13.34	0.00	0.00	0.00	0.00
140.0	160.0	309.64	357.75	13.61	13.61	0.00	0.00	0.00	0.00
120.0	140.0	507.33	457.90	15.01	15.01	0.00	0.00	0.00	0.00
100.0	120.0	507.33	457.90	14.82	14.82	0.00	0.00	0.00	0.00
80.0	100.0	507.33	457.90	15.77	15.77	0.00	0.00	0.00	0.00
60.0	80.0	507.33	576.00	16.62	16.62	0.00	0.00	0.00	0.00
40.0	60.0	621.06	656.10	17.72	17.72	0.00	0.00	0.00	0.00
20.0	40.0	621.06	656.10	18.63	18.63	0.00	0.00	0.00	0.00
13.3	20.0	640.29	656.10	35.60	35.60	0.00	0.00	0.00	0.00
0.0	13.3	640.29	656.10	43.74	43.74	15.60	15.60	7.41	7.41

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

LOADING CONDITION A

105 mph Ultimate wind with no ice. Wind Azimuth: 0♦

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	250.0	6.89	240.0	0.0	3.24	3.01	0.00	0.00
C	250.0	6.89	120.0	0.0	3.24	3.01	0.00	0.00
C	250.0	6.89	0.0	0.0	3.24	3.01	0.00	0.00
C	235.0	7.18	240.0	0.0	2.27	1.60	0.00	0.00
C	235.0	7.18	120.0	0.0	2.27	1.60	0.00	0.00
C	235.0	7.18	0.0	0.0	2.27	1.60	0.00	0.00
C	220.0	8.04	120.0	0.0	2.28	1.60	0.00	0.00
C	220.0	8.04	240.0	0.0	2.28	1.60	0.00	0.00
C	220.0	8.04	0.0	0.0	2.28	1.60	0.00	0.00
D	255.0	0.00	180.0	0.0	0.08	0.05	0.00	0.00
D	250.0	0.00	180.0	0.0	0.08	0.05	0.00	0.00
D	250.0	0.00	35.5	0.0	0.17	0.08	0.08	0.11
D	240.0	0.00	35.5	0.0	0.17	0.08	0.08	0.11
D	240.0	0.00	34.3	0.0	0.19	0.11	0.08	0.11
D	235.0	0.00	34.3	0.0	0.19	0.11	0.08	0.11
D	235.0	0.00	61.1	0.0	0.22	0.12	0.08	0.15
D	220.0	0.00	65.4	0.0	0.22	0.12	0.07	0.14
D	220.0	0.00	7.6	0.0	0.28	0.18	0.07	0.05
D	200.0	0.00	8.7	0.0	0.29	0.18	0.06	0.05
D	200.0	0.00	6.4	0.0	0.29	0.21	0.08	0.05
D	180.0	0.00	7.1	0.0	0.30	0.21	0.07	0.05
D	180.0	0.00	5.6	0.0	0.32	0.24	0.09	0.05
D	160.0	0.00	6.1	0.0	0.33	0.24	0.08	0.05
D	160.0	0.00	4.9	0.0	0.34	0.26	0.10	0.05
D	140.0	0.00	5.3	0.0	0.35	0.27	0.09	0.05
D	140.0	0.00	4.4	0.0	0.36	0.32	0.11	0.05
D	120.0	0.00	4.7	0.0	0.36	0.32	0.10	0.05
D	120.0	0.00	4.0	0.0	0.37	0.33	0.12	0.05
D	100.0	0.00	4.2	0.0	0.38	0.33	0.12	0.05
D	100.0	0.00	3.7	0.0	0.40	0.34	0.13	0.05
D	80.0	0.00	3.8	0.0	0.40	0.35	0.13	0.05
D	80.0	0.00	3.4	0.0	0.41	0.38	0.14	0.05
D	60.0	0.00	3.5	0.0	0.42	0.39	0.14	0.05
D	60.0	0.00	3.1	0.0	0.44	0.41	0.16	0.05
D	40.0	0.00	3.2	0.0	0.45	0.42	0.15	0.05
D	40.0	0.00	2.9	0.0	0.43	0.46	0.17	0.05
D	20.0	0.00	3.0	0.0	0.44	0.46	0.16	0.05
D	20.0	0.00	2.7	0.0	0.41	0.43	0.18	0.05
D	13.3	0.00	2.7	0.0	0.41	0.43	0.18	0.05
D	13.3	0.00	2.8	0.0	0.46	0.51	0.17	0.05
D	0.0	0.00	2.8	0.0	0.46	0.51	0.17	0.05

LOADING CONDITION M

105 mph Ultimate wind with no ice. Wind Azimuth: 0♦

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	250.0	6.89	240.0	0.0	3.24	2.26	0.00	0.00
C	250.0	6.89	120.0	0.0	3.24	2.26	0.00	0.00
C	250.0	6.89	0.0	0.0	3.24	2.26	0.00	0.00
C	235.0	7.18	240.0	0.0	2.27	1.20	0.00	0.00
C	235.0	7.18	120.0	0.0	2.27	1.20	0.00	0.00
C	235.0	7.18	0.0	0.0	2.27	1.20	0.00	0.00
C	220.0	8.04	120.0	0.0	2.28	1.20	0.00	0.00
C	220.0	8.04	240.0	0.0	2.28	1.20	0.00	0.00
C	220.0	8.04	0.0	0.0	2.28	1.20	0.00	0.00
D	255.0	0.00	180.0	0.0	0.08	0.04	0.00	0.00
D	250.0	0.00	180.0	0.0	0.08	0.04	0.00	0.00
D	250.0	0.00	35.5	0.0	0.17	0.06	0.06	0.11
D	240.0	0.00	35.5	0.0	0.17	0.06	0.06	0.11
D	240.0	0.00	34.3	0.0	0.19	0.08	0.06	0.11
D	235.0	0.00	34.3	0.0	0.19	0.08	0.06	0.11
D	235.0	0.00	61.1	0.0	0.22	0.09	0.06	0.15
D	220.0	0.00	65.4	0.0	0.22	0.09	0.05	0.14
D	220.0	0.00	7.6	0.0	0.28	0.13	0.05	0.05
D	200.0	0.00	8.7	0.0	0.29	0.14	0.04	0.05
D	200.0	0.00	6.4	0.0	0.29	0.16	0.06	0.05
D	180.0	0.00	7.1	0.0	0.30	0.16	0.05	0.05
D	180.0	0.00	5.6	0.0	0.32	0.18	0.07	0.05

D	160.0	0.00	6.1	0.0	0.33	0.18	0.06	0.05
D	160.0	0.00	4.9	0.0	0.34	0.20	0.08	0.05
D	140.0	0.00	5.3	0.0	0.35	0.20	0.07	0.05
D	140.0	0.00	4.4	0.0	0.36	0.24	0.08	0.05
D	120.0	0.00	4.7	0.0	0.36	0.24	0.08	0.05
D	120.0	0.00	4.0	0.0	0.37	0.25	0.09	0.05
D	100.0	0.00	4.2	0.0	0.38	0.25	0.09	0.05
D	100.0	0.00	3.7	0.0	0.40	0.26	0.10	0.05
D	80.0	0.00	3.8	0.0	0.40	0.26	0.10	0.05
D	80.0	0.00	3.4	0.0	0.41	0.29	0.11	0.05
D	60.0	0.00	3.5	0.0	0.42	0.29	0.10	0.05
D	60.0	0.00	3.1	0.0	0.44	0.31	0.12	0.05
D	40.0	0.00	3.2	0.0	0.45	0.31	0.11	0.05
D	40.0	0.00	2.9	0.0	0.43	0.34	0.13	0.05
D	20.0	0.00	3.0	0.0	0.44	0.35	0.12	0.05
D	20.0	0.00	2.7	0.0	0.41	0.32	0.14	0.05
D	13.3	0.00	2.7	0.0	0.41	0.32	0.14	0.05
D	13.3	0.00	2.8	0.0	0.46	0.38	0.13	0.05
D	0.0	0.00	2.8	0.0	0.46	0.38	0.13	0.05

LOADING CONDITION Y

30 mph wind with 1.5 ice. Wind Azimuth: 0♦

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	250.0	6.89	240.0	0.0	0.40	5.89	0.00	0.00
C	250.0	6.89	120.0	0.0	0.40	5.89	0.00	0.00
C	250.0	6.89	0.0	0.0	0.40	5.89	0.00	0.00
C	235.0	7.18	240.0	0.0	0.28	2.96	0.00	0.00
C	235.0	7.18	120.0	0.0	0.28	2.96	0.00	0.00
C	235.0	7.18	0.0	0.0	0.28	2.96	0.00	0.00
C	220.0	8.04	120.0	0.0	0.28	2.97	0.00	0.00
C	220.0	8.04	240.0	0.0	0.28	2.97	0.00	0.00
C	220.0	8.04	0.0	0.0	0.28	2.97	0.00	0.00
D	255.0	0.00	180.0	0.0	0.01	0.21	0.00	0.00
D	250.0	0.00	180.0	0.0	0.01	0.21	0.00	0.00
D	250.0	0.00	35.5	0.0	0.02	0.31	0.27	0.01
D	240.0	0.00	35.5	0.0	0.02	0.31	0.27	0.01
D	240.0	0.00	34.3	0.0	0.02	0.38	0.28	0.01
D	235.0	0.00	34.3	0.0	0.02	0.38	0.28	0.01
D	235.0	0.00	71.5	0.0	0.03	0.44	0.28	0.01
D	230.0	0.00	71.5	0.0	0.03	0.44	0.28	0.01
D	230.0	0.00	73.7	0.0	0.03	0.45	0.26	0.01
D	225.0	0.00	73.7	0.0	0.03	0.45	0.26	0.01
D	225.0	0.00	76.0	0.0	0.03	0.46	0.25	0.01
D	220.0	0.00	76.0	0.0	0.03	0.46	0.25	0.01
D	220.0	0.00	358.6	0.0	0.03	0.62	0.19	0.00
D	200.0	0.00	358.5	0.0	0.03	0.64	0.17	0.00
D	200.0	0.00	358.8	0.0	0.03	0.65	0.22	0.00
D	180.0	0.00	358.6	0.0	0.04	0.67	0.20	0.00
D	180.0	0.00	358.9	0.0	0.04	0.72	0.25	0.00
D	160.0	0.00	358.8	0.0	0.04	0.74	0.23	0.00
D	160.0	0.00	359.0	0.0	0.04	0.77	0.28	0.00
D	140.0	0.00	358.9	0.0	0.04	0.80	0.26	0.00
D	140.0	0.00	359.1	0.0	0.04	0.83	0.31	0.00
D	120.0	0.00	359.0	0.0	0.04	0.85	0.29	0.00
D	120.0	0.00	359.1	0.0	0.04	0.87	0.34	0.00
D	100.0	0.00	359.1	0.0	0.05	0.89	0.32	0.00
D	100.0	0.00	359.2	0.0	0.05	0.92	0.37	0.00
D	80.0	0.00	359.2	0.0	0.05	0.93	0.35	0.00
D	80.0	0.00	359.3	0.0	0.05	0.97	0.39	0.00
D	60.0	0.00	359.3	0.0	0.05	0.98	0.38	0.00
D	60.0	0.00	359.5	0.0	0.05	1.04	0.42	0.00
D	40.0	0.00	359.4	0.0	0.05	1.05	0.41	0.00
D	40.0	0.00	359.7	0.0	0.05	1.08	0.44	0.00
D	20.0	0.00	359.6	0.0	0.05	1.09	0.43	0.00
D	20.0	0.00	1.7	0.0	0.05	0.83	0.23	0.00
D	13.3	0.00	1.7	0.0	0.05	0.83	0.23	0.00
D	13.3	0.00	0.2	0.0	0.05	1.17	0.36	0.00
D	0.0	0.00	0.2	0.0	0.05	1.17	0.36	0.00

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	----------		3.40 A	0.00 A
	4.78 e	1.94 S		
250.0	----------		0.10 S	0.00 A
	3.20 M	4.93 T		
245.0	----------		0.46 Y	0.00 A
	15.16 M	7.09 H		
240.0	----------		0.69 M	0.00 A

	27.61 M	4.59 M		
235.0	----------		0.05 M	0.00 A
	40.06 M	7.13 H		
230.0	----------		0.17 Y	0.00 A
	55.37 M	7.49 H		
225.0	----------		0.28 A	0.00 A
	70.24 M	5.92 M		
220.0	----------		0.01 O	0.00 A
	83.62 M	9.10 M		
215.0	----------		0.29 A	0.00 A
	101.59 M	9.75 G		
210.0	----------		0.00 A	0.00 A
	117.73 M	8.09 M		
205.0	----------		0.23 A	0.00 A
	132.92 M	9.13 G		
200.0	----------		0.03 M	0.00 A
	149.55 M	8.67 M		
193.3	----------		0.18 A	0.00 A
	167.70 M	9.46 G		
186.7	----------		0.05 M	0.00 A
	184.90 M	8.61 M		
180.0	----------		0.15 A	0.00 A
	201.45 M	9.33 G		
173.3	----------		0.03 M	0.00 A
	217.39 M	8.79 M		
166.7	----------		0.12 A	0.00 A
	232.99 M	9.50 G		
160.0	----------		0.05 M	0.00 A
	248.17 M	9.15 V		
153.3	----------		0.13 A	0.00 A
	263.13 M	9.85 G		
146.7	----------		0.04 M	0.00 A
	277.86 M	9.70 V		
140.0	----------		0.12 A	0.00 A
	295.86 M	11.38 D		
130.0	----------		0.07 A	0.00 A
	317.38 M	11.46 V		
120.0	----------		0.10 A	0.00 A
	338.72 M	12.23 J		
110.0	----------		0.07 A	0.00 A
	359.96 M	12.45 P		
100.0	----------		0.09 A	0.00 A
	381.15 M	13.26 J		
90.0	----------		0.07 A	0.00 A
	402.42 M	13.66 P		
80.0	----------		0.07 A	0.00 A
	423.75 M	14.51 J		
70.0	----------		0.06 A	0.00 A
	445.18 M	14.98 P		
60.0	----------		0.07 A	0.00 A
	466.72 M	15.88 J		
50.0	----------		0.05 A	0.00 A
	488.46 M	16.49 V		
40.0	----------		0.06 G	0.00 A
	510.41 M	17.37 J		
30.0	----------		0.09 S	0.00 A
	532.40 M	18.00 V		
20.0	----------		0.16 A	0.00 A
	558.62 M	19.31 J		
13.3	----------		1.68 M	0.00 P
	557.40 M	25.45 J		
0.0	----------		0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	----------		-1.33 S	0.00 A
	-0.40 M	-4.86 A		
250.0	----------		-0.39 A	0.00 A
	-8.67 G	-5.06 G		
245.0	----------		-0.06 S	0.00 A
	-25.46 G	-4.05 N		
240.0	----------		-1.55 G	0.00 A
	-31.38 G	-6.63 G		
235.0	----------		-0.13 G	0.00 A
	-49.94 G	-7.09 H		
230.0	----------		0.00 A	0.00 A
	-67.48 G	-6.11 N		
225.0	----------		-0.23 S	0.00 A
	-79.68 G	-7.33 G		
220.0	----------		-0.11 I	0.00 A
	-97.71 G	-9.58 G		
215.0	----------		-0.13 S	0.00 A
	-118.63 G	-8.01 M		
210.0	----------		-0.09 e	0.00 A
	-132.39 G	-9.65 G		
205.0	----------		-0.12 S	0.00 A

	-151.04 G	-7.81 M				
200.0	----------		-0.08 G	0.00 A		
	-166.27 G	-10.00 G				
193.3	----------		-0.11 S	0.00 A		
	-188.03 G	-8.36 R				
186.7	----------		-0.08 G	0.00 A		
	-204.67 G	-9.67 G				
180.0	----------		-0.09 S	0.00 A		
	-224.16 G	-8.54 V				
173.3	----------		-0.06 G	0.00 A		
	-240.29 G	-9.72 G				
166.7	----------		-0.08 S	0.00 A		
	-258.47 G	-8.93 P				
160.0	----------		-0.06 G	0.00 A		
	-274.33 G	-9.99 G				
153.3	----------		-0.10 S	0.00 A		
	-291.75 G	-9.43 V				
146.7	----------		-0.05 G	0.00 A		
	-307.52 G	-10.40 G				
140.0	----------		-0.09 S	0.00 A		
	-328.54 G	-11.12 S				
130.0	----------		-0.07 G	0.00 A		
	-352.30 G	-12.18 G				
120.0	----------		-0.08 S	0.00 A		
	-377.31 G	-12.07 S				
110.0	----------		-0.07 S	0.00 A		
	-401.17 G	-13.07 G				
100.0	----------		-0.07 S	0.00 A		
	-426.05 G	-13.18 S				
90.0	----------		-0.06 S	0.00 A		
	-450.27 G	-14.22 G				
80.0	----------		-0.06 S	0.00 A		
	-475.46 G	-14.48 S				
70.0	----------		-0.06 S	0.00 A		
	-500.27 G	-15.50 G				
60.0	----------		-0.05 S	0.00 A		
	-525.94 G	-15.89 S				
50.0	----------		-0.05 S	0.00 A		
	-551.43 G	-16.95 G				
40.0	----------		-0.01 M	0.00 A		
	-577.77 G	-17.36 S				
30.0	----------		-0.10 A	0.00 A		
	-603.97 G	-18.31 G				
20.0	----------		-0.14 S	0.00 A		
	-634.50 G	-19.36 G				
13.3	----------		-1.93 G	0.00 S		
	-636.12 G	-25.43 J				
0.0	----------		0.00 A	0.00 A		

FORCE/RESISTANCE RATIO IN LEGS
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MAST ELEV ft	-- LEG COMPRESSION - MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	---- LEG TENSION --- MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
255.00	----------					
	0.40	31.48	0.01	4.78	48.15	0.10
250.00	----------					
	8.67	31.48	0.28	3.20	48.15	0.07
245.00	----------					
	25.46	31.48	0.81	15.16	48.15	0.31
240.00	----------					
	31.38	82.52	0.38	27.61	100.35	0.28
235.00	----------					
	49.94	82.52	0.61	40.06	100.35	0.40
230.00	----------					
	67.48	82.52	0.82	55.37	100.35	0.55
225.00	----------					
	79.68	82.52	0.97	70.24	100.35	0.70
220.00	----------					
	97.71	175.98	0.56	83.62	198.45	0.42
215.00	----------					
	118.63	175.98	0.67	101.59	198.45	0.51
210.00	----------					
	132.39	175.98	0.75	117.73	198.45	0.59
205.00	----------					
	151.04	175.98	0.86	132.92	198.45	0.67
200.00	----------					
	166.27	239.46	0.69	149.55	274.95	0.54
193.33	----------					
	188.03	239.46	0.79	167.70	274.95	0.61
186.67	----------					
	204.67	239.46	0.85	184.90	274.95	0.67
180.00	----------					
	224.16	309.64	0.72	201.45	327.10	0.62
173.33	----------					
	240.29	309.64	0.78	217.39	327.10	0.66
166.67	----------					
	258.47	309.64	0.83	232.99	327.10	0.71
160.00	----------					
	274.33	309.64	0.89	248.17	357.75	0.69
153.33	----------					

	291.75	309.64	0.94	263.13	357.75	0.74
146.67						
	307.52	309.64	0.99	277.86	357.75	0.78
140.00						
	328.54	507.33	0.65	295.86	457.90	0.65
130.00						
	352.30	507.33	0.69	317.38	457.90	0.69
120.00						
	377.31	507.33	0.74	338.72	457.90	0.74
110.00						
	401.17	507.33	0.79	359.96	457.90	0.79
100.00						
	426.05	507.33	0.84	381.15	457.90	0.83
90.00						
	450.27	507.33	0.89	402.42	457.90	0.88
80.00						
	475.46	507.33	0.94	423.75	576.00	0.74
70.00						
	500.27	507.33	0.99	445.18	576.00	0.77
60.00						
	525.94	621.06	0.85	466.72	656.10	0.71
50.00						
	551.43	621.06	0.89	488.46	656.10	0.74
40.00						
	577.77	621.06	0.93	510.41	656.10	0.78
30.00						
	603.97	621.06	0.97	532.40	656.10	0.81
20.00						
	634.50	640.29	0.99	558.62	656.10	0.85
13.33						
	636.12	640.29	0.99	557.40	656.10	0.85
0.00						

FORCE/RESISTANCE RATIO IN DIAGONALS
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MAST ELEV ft	- DIAG COMPRESSION - MAX COMP	COMP RESIST	FORCE/ RESIST RATIO	--- DIAG TENSION -- MAX TENS	TENS RESIST	FORCE/ RESIST RATIO
255.00						
	4.86	10.74	0.45	1.94	10.74	0.18
250.00						
	5.06	10.74	0.47	4.93	10.74	0.46
245.00						
	4.05	10.74	0.38	7.09	10.74	0.66
240.00						
	6.63	10.74	0.62	4.59	10.74	0.43
235.00						
	7.09	10.74	0.66	7.13	10.74	0.66
230.00						
	6.11	10.74	0.57	7.49	10.74	0.70
225.00						
	7.33	10.74	0.68	5.92	10.74	0.55
220.00						
	9.58	13.03	0.73	9.10	13.03	0.70
215.00						
	8.01	13.03	0.61	9.75	13.03	0.75
210.00						
	9.65	13.03	0.74	8.09	13.03	0.62
205.00						
	7.81	13.03	0.60	9.13	13.03	0.70
200.00						
	10.00	13.00	0.77	8.67	13.00	0.67
193.33						
	8.36	13.00	0.64	9.46	13.00	0.73
186.67						
	9.67	13.00	0.74	8.61	13.00	0.66
180.00						
	8.54	13.34	0.64	9.33	13.34	0.70
173.33						
	9.72	13.34	0.73	8.79	13.34	0.66
166.67						
	8.93	13.34	0.67	9.50	13.34	0.71
160.00						
	9.99	13.61	0.73	9.15	13.61	0.67
153.33						
	9.43	13.61	0.69	9.85	13.61	0.72
146.67						
	10.40	13.61	0.76	9.70	13.61	0.71
140.00						
	11.12	15.01	0.74	11.38	15.01	0.76
130.00						
	12.18	15.01	0.81	11.46	15.01	0.76
120.00						
	12.07	14.82	0.81	12.23	14.82	0.82
110.00						
	13.07	14.82	0.88	12.45	14.82	0.84
100.00						
	13.18	15.77	0.84	13.26	15.77	0.84
90.00						
	14.22	15.77	0.90	13.66	15.77	0.87
80.00						
	14.48	16.62	0.87	14.51	16.62	0.87

70.00						
	15.50	16.62	0.93	14.98	16.62	0.90
60.00						
	15.89	17.72	0.90	15.88	17.72	0.90
50.00						
	16.95	17.72	0.96	16.49	17.72	0.93
40.00						
	17.36	18.63	0.93	17.37	18.63	0.93
30.00						
	18.31	18.63	0.98	18.00	18.63	0.97
20.00						
	19.36	35.60	0.54	19.31	35.60	0.54
13.33						
	25.43	43.74	0.58	25.45	43.74	0.58
0.00						

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

LOAD---COMPONENTS				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
70.06 G	-57.79 C	670.00 G	-587.06 M	70.06 G

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

HORIZONTAL			DOWN	OVERTURNING			TORSION
NORTH	EAST	TOTAL @ 0.0		NORTH	EAST	TOTAL @ 0.0	
118.9 S	111.3 V	118.9 S	240.5 i	16033.5 G	15013.7 J	16033.5 G	-89.6 N

Latticed Tower Analysis (Unguyed) (c)2015 Guymast Inc. 416-736-7453
Processed under license at:

Sabre Towers and Poles on: 6 nov 2020 at: 13:34:04

********** Service Load Condition **********

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

LOADING CONDITION A

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

MAST LOADING

LOAD TYPE	ELEV ft	APPLY..LOAD..AT RADIUS ft	AZI	LOAD AZI	.....FORCES..... HORIZ kip	DOWN kip	.....MOMENTS..... VERTICAL ft-kip	TORSNAL ft-kip
C	250.0	6.89	240.0	0.0	1.11	2.51	0.00	0.00
C	250.0	6.89	120.0	0.0	1.11	2.51	0.00	0.00
C	250.0	6.89	0.0	0.0	1.11	2.51	0.00	0.00
C	235.0	7.18	240.0	0.0	0.78	1.33	0.00	0.00
C	235.0	7.18	120.0	0.0	0.78	1.33	0.00	0.00
C	235.0	7.18	0.0	0.0	0.78	1.33	0.00	0.00
C	220.0	8.04	120.0	0.0	0.78	1.33	0.00	0.00
C	220.0	8.04	240.0	0.0	0.78	1.33	0.00	0.00
C	220.0	8.04	0.0	0.0	0.78	1.33	0.00	0.00
D	255.0	0.00	180.0	0.0	0.03	0.04	0.00	0.00
D	250.0	0.00	180.0	0.0	0.03	0.04	0.00	0.00
D	250.0	0.00	35.5	0.0	0.06	0.07	0.06	0.04
D	240.0	0.00	35.5	0.0	0.06	0.07	0.06	0.04
D	240.0	0.00	34.3	0.0	0.06	0.09	0.07	0.04
D	235.0	0.00	34.3	0.0	0.06	0.09	0.07	0.04
D	235.0	0.00	61.1	0.0	0.08	0.10	0.06	0.05
D	220.0	0.00	65.4	0.0	0.08	0.10	0.06	0.05
D	220.0	0.00	7.6	0.0	0.10	0.15	0.06	0.02
D	200.0	0.00	8.7	0.0	0.10	0.15	0.05	0.02
D	200.0	0.00	6.4	0.0	0.10	0.17	0.06	0.02
D	180.0	0.00	7.1	0.0	0.11	0.18	0.06	0.02

D	180.0	0.00	5.6	0.0	0.11	0.20	0.07	0.02
D	160.0	0.00	6.1	0.0	0.12	0.20	0.07	0.02
D	160.0	0.00	4.9	0.0	0.12	0.22	0.08	0.02
D	140.0	0.00	5.3	0.0	0.12	0.22	0.08	0.02
D	140.0	0.00	4.4	0.0	0.12	0.26	0.09	0.02
D	120.0	0.00	4.7	0.0	0.12	0.27	0.09	0.02
D	120.0	0.00	4.0	0.0	0.13	0.28	0.10	0.02
D	100.0	0.00	4.2	0.0	0.13	0.28	0.10	0.02
D	100.0	0.00	3.7	0.0	0.14	0.29	0.11	0.02
D	80.0	0.00	3.8	0.0	0.14	0.29	0.11	0.02
D	80.0	0.00	3.4	0.0	0.14	0.32	0.12	0.02
D	60.0	0.00	3.5	0.0	0.14	0.32	0.12	0.02
D	60.0	0.00	3.1	0.0	0.15	0.34	0.13	0.02
D	40.0	0.00	3.2	0.0	0.15	0.35	0.13	0.02
D	40.0	0.00	2.9	0.0	0.15	0.38	0.14	0.02
D	20.0	0.00	3.0	0.0	0.15	0.38	0.14	0.02
D	20.0	0.00	2.7	0.0	0.14	0.36	0.15	0.02
D	13.3	0.00	2.7	0.0	0.14	0.36	0.15	0.02
D	13.3	0.00	2.8	0.0	0.16	0.43	0.15	0.02
D	0.0	0.00	2.8	0.0	0.16	0.43	0.15	0.02

MAXIMUM MAST DISPLACEMENTS:

ELEV ft	------DEFLECTIONS (ft)----- NORTH	EAST	DOWN	--TILTS (DEG)--- NORTH	EAST	TWIST DEG
255.0	1.220 G	-1.142 D	0.015 G	0.615 G	-0.575 D	-0.056 F
250.0	1.167 G	-1.092 D	0.016 G	0.617 G	-0.577 D	-0.056 F
245.0	1.112 G	-1.040 D	0.015 G	0.611 G	-0.571 D	-0.056 F
240.0	1.059 G	-0.991 D	0.014 G	0.589 G	-0.550 D	-0.055 F
235.0	1.007 G	-0.943 D	0.013 G	0.575 G	-0.537 D	-0.053 F
230.0	0.957 G	-0.896 D	0.013 G	0.556 G	-0.519 D	-0.051 F
225.0	0.908 G	-0.850 D	0.012 G	0.531 G	-0.495 D	-0.049 F
220.0	0.863 G	-0.808 D	0.012 G	0.503 G	-0.470 D	-0.047 F
215.0	0.818 G	-0.766 D	0.011 G	0.487 G	-0.455 D	-0.045 F
210.0	0.776 G	-0.726 D	0.011 G	0.469 G	-0.438 D	-0.043 F
205.0	0.734 G	-0.688 D	0.010 G	0.450 G	-0.420 D	-0.042 F
200.0	0.695 G	-0.651 D	0.010 G	0.429 G	-0.401 D	-0.040 F
193.3	0.645 G	-0.604 D	0.010 G	0.408 G	-0.382 D	0.039 H
186.7	0.598 G	-0.560 D	0.009 G	0.386 G	-0.361 D	0.037 H
180.0	0.553 G	-0.518 D	0.009 G	0.363 G	-0.340 D	0.036 H
173.3	0.511 G	-0.479 D	0.008 G	0.346 G	-0.323 D	0.034 H
166.7	0.470 G	-0.440 D	0.008 G	0.327 G	-0.306 D	0.032 H
160.0	0.432 G	-0.405 D	0.008 G	0.309 G	-0.289 D	0.030 H
153.3	0.396 G	-0.371 D	0.007 G	0.290 G	-0.272 D	0.029 H
146.7	0.362 G	-0.339 D	0.007 G	0.271 G	0.254 J	0.027 H
140.0	0.330 G	-0.309 D	0.007 G	0.252 G	0.236 J	0.025 H
130.0	0.287 G	-0.268 D	0.006 G	0.234 G	0.219 J	0.023 H
120.0	0.246 G	-0.230 D	0.006 G	0.216 G	0.202 J	0.021 H
110.0	0.208 G	-0.195 D	0.005 G	0.197 G	0.185 J	0.019 H
100.0	0.173 G	-0.162 D	0.005 G	0.179 G	0.167 J	0.017 H
90.0	0.142 G	-0.133 D	0.005 G	0.160 G	0.150 J	0.015 H
80.0	0.114 G	-0.107 D	0.004 G	0.141 G	0.132 J	0.013 H
70.0	0.089 G	-0.083 D	0.004 G	0.122 G	0.115 J	0.011 H
60.0	0.068 G	-0.063 D	0.003 G	0.103 G	0.097 J	0.009 H
50.0	0.049 G	-0.046 D	0.003 G	0.086 G	0.081 J	0.008 H
40.0	0.033 G	-0.031 D	0.002 G	0.070 G	0.065 J	0.006 H
30.0	0.019 G	0.018 J	0.002 A	0.052 G	0.049 J	0.004 H
20.0	0.007 G	0.006 J	0.001 A	0.035 G	0.032 J	0.002 H
13.3	0.003 G	-0.003 D	0.001 A	0.023 G	0.022 J	0.002 H
0.0	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A	0.000 A

MAXIMUM TENSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	----------		1.75 A	0.00 A
	2.68 G	0.00 A		
250.0	----------		0.00 A	0.00 A
	0.00 A	1.67 H		
245.0	----------		0.26 A	0.00 A
	1.96 A	3.30 B		
240.0	----------		0.00 A	0.00 A
	8.48 A	0.95 A		
235.0	----------		0.00 A	0.00 A
	10.86 A	2.47 B		
230.0	----------		0.09 A	0.00 A
	15.47 A	2.96 H		
225.0	----------		0.11 A	0.00 A
	21.56 A	1.61 A		
220.0	----------		0.00 A	0.00 A
	24.71 A	3.02 A		
215.0	----------		0.15 A	0.00 A
	30.02 A	3.80 G		
210.0	----------		0.00 A	0.00 A
	36.46 A	2.32 A		
205.0	----------		0.11 A	0.00 A
	40.66 A	3.47 G		
200.0	----------		0.00 A	0.00 A
	46.98 A	2.63 A		

193.3	----------		0.09 A	0.00 A
	52.22 A	3.52 G		
186.7	----------		0.01 A	0.00 A
	58.51 A	2.71 A		
180.0	----------		0.07 A	0.00 A
	63.46 A	3.41 G		
173.3	----------		0.00 A	0.00 A
	69.11 A	2.85 A		
166.7	----------		0.05 A	0.00 A
	73.86 A	3.43 G		
160.0	----------		0.01 A	0.00 A
	79.12 A	3.03 J		
153.3	----------		0.06 A	0.00 A
	83.74 A	3.53 J		
146.7	----------		0.01 A	0.00 A
	88.75 A	3.25 J		
140.0	----------		0.05 A	0.00 A
	94.32 A	4.06 J		
130.0	----------		0.02 A	0.00 A
	101.44 A	3.87 J		
120.0	----------		0.04 A	0.00 A
	108.03 A	4.32 J		
110.0	----------		0.02 A	0.00 A
	114.94 A	4.23 J		
100.0	----------		0.04 A	0.00 A
	121.49 A	4.65 J		
90.0	----------		0.02 A	0.00 A
	128.32 A	4.65 D		
80.0	----------		0.03 A	0.00 A
	134.89 A	5.06 J		
70.0	----------		0.02 A	0.00 A
	141.68 A	5.11 D		
60.0	----------		0.03 A	0.00 A
	148.27 A	5.52 J		
50.0	----------		0.02 A	0.00 A
	155.07 A	5.63 D		
40.0	----------		0.03 G	0.00 A
	161.74 A	6.02 J		
30.0	----------		0.02 G	0.00 A
	168.51 A	6.17 J		
20.0	----------		0.06 A	0.00 A
	176.80 A	6.67 J		
13.3	----------		0.54 A	0.00 D
	175.45 A	8.78 J		
0.0	----------		0.00 A	0.00 A

MAXIMUM COMPRESSION IN MAST MEMBERS (kip)

ELEV ft	LEGS	DIAG	HORIZ	BRACE
255.0	----------		0.00 A	0.00 A
	0.00 A	-2.50 A		
250.0	----------		-0.21 A	0.00 A
	-4.50 G	-1.78 B		
245.0	----------		0.00 A	0.00 A
	-11.61 G	-0.41 H		
240.0	----------		-0.77 G	0.00 A
	-11.80 G	-2.84 G		
235.0	----------		-0.07 G	0.00 A
	-19.85 G	-2.43 H		
230.0	----------		0.00 A	0.00 A
	-26.45 G	-1.66 B		
225.0	----------		-0.06 G	0.00 A
	-29.84 G	-2.89 G		
220.0	----------		-0.06 I	0.00 A
	-37.27 G	-3.39 G		
215.0	----------		0.00 A	0.00 A
	-45.21 G	-2.23 A		
210.0	----------		-0.05 G	0.00 A
	-49.21 G	-3.71 G		
205.0	----------		0.00 G	0.00 A
	-56.51 G	-2.31 A		
200.0	----------		-0.04 G	0.00 A
	-61.26 G	-3.76 G		
193.3	----------		-0.01 G	0.00 A
	-69.65 G	-2.60 F		
186.7	----------		-0.04 G	0.00 A
	-75.11 G	-3.57 G		
180.0	----------		-0.01 G	0.00 A
	-82.54 G	-2.75 J		
173.3	----------		-0.03 G	0.00 A
	-88.03 G	-3.54 G		
166.7	----------		-0.01 G	0.00 A
	-94.89 G	-2.94 J		
160.0	----------		-0.02 G	0.00 A
	-100.42 G	-3.61 G		
153.3	----------		-0.02 G	0.00 A
	-106.98 G	-3.16 J		

146.7	----------		-0.02 G	0.00 A
	-112.57 G	-3.73 G		
140.0	----------		-0.02 G	0.00 A
	-120.47 G	-3.77 G		
130.0	----------		-0.03 G	0.00 A
	-129.05 G	-4.33 G		
120.0	----------		-0.02 G	0.00 A
	-138.43 G	-4.11 G		
110.0	----------		-0.02 G	0.00 A
	-147.10 G	-4.61 G		
100.0	----------		-0.02 G	0.00 A
	-156.40 G	-4.51 G		
90.0	----------		-0.02 G	0.00 A
	-165.24 G	-4.99 G		
80.0	----------		-0.01 G	0.00 A
	-174.64 G	-4.96 G		
70.0	----------		-0.02 G	0.00 A
	-183.76 G	-5.41 G		
60.0	----------		-0.01 G	0.00 A
	-193.35 G	-5.45 G		
50.0	----------		-0.01 G	0.00 A
	-202.77 G	-5.90 G		
40.0	----------		0.00 A	0.00 A
	-212.62 G	-5.97 G		
30.0	----------		-0.04 A	0.00 A
	-222.37 G	-6.35 G		
20.0	----------		-0.04 G	0.00 A
	-233.54 G	-6.67 G		
13.3	----------		-0.69 G	0.00 C
	-234.90 G	-8.77 J		
0.0	----------		0.00 A	0.00 A

MAXIMUM INDIVIDUAL FOUNDATION LOADS: (kip)

----------LOAD---COMPONENTS----------				TOTAL
NORTH	EAST	DOWN	UPLIFT	SHEAR
25.02 G	-20.68 C	247.10 G	-185.06 A	25.02 G

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

------HORIZONTAL-----			DOWN	---------OVERTURNING---------			TORSION
NORTH	EAST	TOTAL @ 0.0		NORTH	EAST	TOTAL @ 0.0	
41.0 G	38.3 J	41.0 G	79.0 A	5544.7 G	5195.3 J	5544.7 G	30.7 H

Leg Connection Details												
Bottom Elevation (ft)	Top Elevation (ft)	Pipe Dimensions	Top Splice					Bottom Splice/Base				
			Bolt Qty.	Bolt Dia. (in)	Bolt Circle (in)	Plate Thickness (in)	Plate Dia. (in)	Bolt Qty.	Bolt Dia. (in)	Bolt Circle (in)	Plate Thickness (in)	Plate Dia. (in)
240	255	2.375 OD X .154						6	0.75	6.50	0.75	8.50
220	240	3.500 OD X .216	6	0.75	6.50	1.00	8.50	6	1.00	9.00	1.25	11.50
200	220	4.500 OD X .337	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
180	200	5.563 OD X .375	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
160	180	5.563 OD X .500	6	1.00	9.00	1.25	11.50	6	1.00	9.00	1.25	11.50
140	160	5.563 OD X .500	6	1.00	9.00	1.25	11.50	6	1.25	12.50	1.75	15.75
120	140	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
100	120	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
80	100	8.625 OD X .500	6	1.25	12.50	1.50	15.75	6	1.25	12.50	1.50	15.75
60	80	8.625 OD X .500	6	1.25	12.50	1.50	15.75	8	1.50	17.25	2.00	21.00
40	60	12.75 OD X .375	8	1.50	17.25	1.75	21.00	8	1.50	17.25	1.75	21.00
20	40	12.75 OD X .375	8	1.50	17.25	1.75	21.00	8	1.50	17.25	1.75	21.00
0	20	12.75 OD X .375	8	1.50	17.25	1.75	21.00	6	1.75	18.00	2.00	22.50

Diagonal Bracing Connection Details								
Bottom Elevation (ft)	Top Elevation (ft)	Angle Shape	Bolt Qty.	Bolt Dia. (in)	Bolt End Distance (in)	Bolt Spacing (in)	Gage Distance From Heel (in)	Gusset Plate Thickness (in)
240	255	L 2 X 2 X 3/16	1	0.625	1.500		1.125	0.375
220	240	L 2 X 2 X 3/16	1	0.625	1.500		1.125	0.375
200	220	L 2 1/2 X 2 1/2 X 3/16	1	0.625	1.500		1.375	0.375
180	200	L 2 1/2 X 2 1/2 X 1/4	1	0.625	1.500		1.375	0.375
160	180	L 3 X 3 X 3/16	1	0.625	1.500		1.750	0.375
140	160	L 3 X 3 X 1/4	1	0.750	1.500		1.750	0.375
120	140	L 3 1/2 X 3 1/2 X 1/4	1	0.750	1.625		1.750	0.375
100	120	L 4 X 3 1/2 X 1/4 (SLV)	1	0.750	1.625		1.750	0.375
80	100	L 4 X 4 X 1/4	1	0.750	1.625		2.000	0.375
60	80	L 4 X 4 X 5/16	1	0.750	1.625		2.000	0.375
40	60	L 4 X 4 X 5/16	2	0.625	1.625	2.1250	2.000	0.500
20	40	L 4 X 4 X 3/8	2	0.625	1.625	2.1250	2.000	0.500
13.33	20	L 5 X 5 X 5/16	2	0.750	1.625	2.5000	2.500	0.500
0	13.33	L 6 X 4 X 3/8	2	0.750	1.625	2.5000	2.000	0.500

DRILLED STRAIGHT PIER DESIGN BY SABRE INDUSTRIES

255' S3TL Series HD1 DIAMOND COMMUNICATIONS LLC Smith Hollow, KY (471123) 11/06/20 DJH

Factored Uplift (kips)	587
Factored Download (kips)	670
Factored Shear (kips)	70
Ultimate Bearing Pressure	30
Bearing Φs	0.75
Bearing Design Strength (ksf)	22.5
Water Table Below Grade (ft)	0
Bolt Circle Diameter (in)	18
Top of Concrete to Top of Bottom Threads (in)	72.625
Pier Diameter (ft)	5.5
Ht. Above Ground (ft)	0.5
Pier Length Below Ground (ft)	70.5
Rebar Quantity	20
Rebar Diameter (in)	1.27
Rebar Area (in²)	25.34
Rebar Spacing (in)	9.03
Tie Diameter (in)	0.5
Tie Spacing (in)	12
f'c (ksi)	4.5
fy (ksi)	60
Unit Wt. of Concrete (kcf)	0.15
Volume of Concrete (yd³)	62.48

Minimum Pier Diameter (ft): 2.83

Minimum Area of Steel (in²): 17.11

Ignore bottom length in download? ☐

Length to ignore download (ft): 0

Depth at Bottom of Layer (ft)	Ult. Skin Friction (ksf)	Ult. Skin Friction (Uplift)	γ (kcf)
82.5	0.50	0.50	0.11

DRILLED STRAIGHT PIER DESIGN BY SABRE INDUSTRIES (CONTINUED)

Download:			
Φ_s, Download Friction	0.75		
Q_f, Skin Friction (kips)	609.1	W_s (kips)	184.2
Q_b, End Bearing Strength (kips)	712.7	W_c (kips)	253.0
Download Design Strength (kips)	991.4	Factored Net Download (kips)	752.5
Uplift (skin friction):			
Φ_s, Uplift	0.75		
Q_f, Skin Friction (kips)	609.1		
W_c (kips)	253.0		
W_w (kips)	104.5		
Uplift Design Strength (kips)	590.5	Factored Uplift (kips)	587.0
Uplift (cone):			
$W_{s,cone}$ (kips)	16181.5		
$W_{w,cone}$ (kips)	9179.3		
W_c (kips)	253.0		
$W_{w,cyl}$ (kips)	104.5		
Uplift Design Strength (kips)	6435.6	Factored Uplift (kips)	587.0
Tension:			
Design Tensile Strength (kips)	1368.1	Tu (kips)	587.0
Shear:			
ϕV_n (kips)	261.0	V_u (kips)	70.0
$\phi V_c=\phi 2(1+N_u/(500A_g))f'_c{}^{1/2}b_wd$ (kips)	261.0		
V_s (kips)	0.0	*** V_s max = 4 $f'_c{}^{1/2}b_wd$ (kips)	935.1
Maximum Spacing (in)	7.10	(Only if Shear Ties are Required)	
		*** Ref. ACI 11.5.5 & 11.5.6.3	
Anchor Bolt Pull-Out:			
$\phi P_c=\phi\lambda(2/3)f'_c{}^{1/2}(2.8A_{SLOPE}+4A_{FLAT})$	515.4	P_u (kips)	587.0
Rebar Development Length (in)	49.76	Required Development Length (in)	24.37

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

EXHIBIT D
COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST

KY Public Service Commission

Master Utility Search

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

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

Active

Search

	Utility ID	Utility Name	Utility Type	Class	City	State
View	4111300	2600Hz, Inc. dba ZSWITCH	Cellular	D	San Francisco	CA
View	4108300	Air Voice Wireless, LLC	Cellular	B	Bloomfield Hill	MI
View	4110650	Alliant Technologies of KY, L.L.C.	Cellular	D	Morristown	NJ
View	4111900	ALLNETAIR, INC.	Cellular	C	West Palm Beach	FL
View	44451184	Alltel Corporation d/b/a Verizon Wireless	Cellular	A	Lisle	IL
View	4110850	AltaWorx, LLC	Cellular	D	Fairhope	AL
View	4107800	American Broadband and Telecommunications Company	Cellular	D	Toledo	OH
View	4108650	AmeriMex Communications Corp.	Cellular	D	Dunedin	FL
View	4105100	AmeriVision Communications, Inc. d/b/a Affinity 4	Cellular	D	Virginia Beach	VA
View	4110700	Andrew David Balholm dba Norcell	Cellular	D	Buford	GA
View	4105700	Assurance Wireless USA, L.P.	Cellular	A	Atlanta	GA
View	4108600	BCN Telecom, Inc.	Cellular	D	Morristown	NJ
View	4106000	Best Buy Health, Inc. d/b/a GreatCall d/b/a Jitterbug	Cellular	A	San Diego	CA
View	4110550	Blue Casa Mobile, LLC	Cellular	D	Santa Barbara	CA
View	4111050	BlueBird Communications, LLC	Cellular	D	New York	NY
View	4202300	Bluegrass Wireless, LLC	Cellular	A	Elizabethtown	KY

View	4107600	Boomerang Wireless, LLC	Cellular	D	Hiawatha	IA
View	4105500	BullsEye Telecom, Inc.	Cellular	D	Southfield	MI
View	4100700	Cellco Partnership dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4106600	Cintex Wireless, LLC	Cellular	D	Houston	TX
View	4111150	Comcast OTR1, LLC	Cellular	C	Phoeniexville	PA
View	4101900	Consumer Cellular, Incorporated	Cellular	A	Portland	OR
View	4106400	Credo Mobile, Inc.	Cellular	A	San Francisco	CA
View	4108850	Cricket Wireless, LLC	Cellular	A	San Antonio	TX
View	4111500	CSC Wireless, LLC d/b/a Altice Wireless	Cellular	D	Long Island City	NY
View	10640	Cumberland Cellular Partnership	Cellular	A	Elizabethtown	KY
View	4111650	DataBytes, Inc.	Cellular	D	Rogers	AR
View	4112000	DISH Wireless L.L.C.	Cellular	C	Englewood	CO
View	4111200	Dynalink Communications, Inc.	Cellular	C	Brooklyn	NY
View	4111800	Earthlink, LLC	Cellular	C	Atlanta	GA
View	4101000	East Kentucky Network, LLC dba Appalachian Wireless	Cellular	A	Ivel	KY
View	4002300	Easy Telephone Service Company dba Easy Wireless	Cellular	D	Ocala	FL
View	4109500	Enhanced Communications Group, LLC	Cellular	D	Bartlesville	OK
View	4110450	Excellus Communications, LLC	Cellular	D	Chattanooga	TN
View	4105900	Flash Wireless, LLC	Cellular	C	Concord	NC
View	4104800	France Telecom Corporate Solutions L.L.C.	Cellular	D	Herndon	VA
View	4111750	Gabb Wireless, Inc.	Cellular	D	Provo	UT
View	4109350	Global Connection Inc. of America	Cellular	D	Norcross	GA
View	4102200	Globalstar USA, LLC	Cellular	B	Covington	LA
View	4112050	GLOTELL US, Corp.	Cellular	C	Hallandale	FL
View	4109600	Google North America Inc.	Cellular	A	Mountain View	CA
View	33350363	Granite Telecommunications, LLC	Cellular	D	Quincy	MA
View	10630	GTE Wireless of the Midwest dba Verizon Wireless	Cellular	A	Basking Ridge	NJ
View	4111350	HELLO MOBILE TELECOM LLC	Cellular	D	Dania Beach	FL
View	4103100	i-Wireless, LLC	Cellular	B	Newport	KY
View	4109800	IM Telecom, LLC d/b/a Infiniti Mobile	Cellular	D	Dallas	TX
View	4111950	J Rhodes Enterprises LLC	Cellular	C	Gulf Breeze	FL
View	22215360	KDDI America, Inc.	Cellular	D	Staten Island	NY
View	10872	Kentucky RSA #1 Partnership	Cellular	A	Basking Ridge	NJ
View	10680	Kentucky RSA #3 Cellular General	Cellular	A	Elizabethtown	KY

View	10681	Kentucky RSA #4 Cellular General	Cellular	A	Elizabethtown	KY
View	4109550	Kynect Communications, LLC	Cellular	D	Dallas	TX
View	4111250	Liberty Mobile Wireless, LLC	Cellular	D	Sunny Isles Beach	FL
View	4111400	Locus Telecommunications, LLC	Cellular	A	Fort Lee	NJ
View	4107300	Lycamobile USA, Inc.	Cellular	D	Newark	NJ
View	4108800	MetroPCS Michigan, LLC	Cellular	A	Bellevue	WA
View	4111700	Mint Mobile, LLC	Cellular	D	Costa Mesa	CA
View	4109650	Mitel Cloud Services, Inc.	Cellular	D	Mesa	AZ
View	4111850	Mobi, Inc.	Cellular	C	Honolulu	HI
View	4202400	New Cingular Wireless PCS, LLC dba AT&T Mobility, PCS	Cellular	A	San Antonio	TX
View	4000800	Nextel West Corporation	Cellular	D	Overland Park	KS
View	4001300	NPCR, Inc. dba Nextel Partners	Cellular	D	Overland Park	KS
View	4001800	OnStar, LLC	Cellular	A	Detroit	MI
View	4110750	Onvoy Spectrum, LLC	Cellular	D	Chicago	IL
View	4109050	Patriot Mobile LLC	Cellular	D	Irving	TX
View	4110250	Plintron Technologies USA LLC	Cellular	D	Bellevue	WA
View	33351182	PNG Telecommunications, Inc. dba PowerNet Global Communications	Cellular	D	Cincinnati	OH
View	4107700	Puretalk Holdings, LLC	Cellular	A	Covington	GA
View	4106700	Q Link Wireless, LLC	Cellular	A	Dania	FL
View	4108700	Ready Wireless, LLC	Cellular	C	Hiawatha	IA
View	4110500	Republic Wireless, Inc.	Cellular	A	Raleigh	NC
View	4106200	Rural Cellular Corporation	Cellular	A	Basking Ridge	NJ
View	4108550	Sage Telecom Communications, LLC dba TruConnect	Cellular	D	Los Angeles	CA
View	4109150	SelecTel, Inc. d/b/a SelecTel Wireless	Cellular	D	Fremont	NE
View	4110150	Spectrotel of the South LLC dba Touch Base Communications	Cellular	D	Neptune	NJ
View	4111450	Spectrum Mobile, LLC	Cellular	A	St. Louis	MO
View	4200100	Sprint Spectrum, L.P.	Cellular	A	Atlanta	GA
View	4200500	SprintCom, Inc.	Cellular	A	Atlanta	GA
View	4111600	STX Group LLC dba Twigby	Cellular	D	Murfreesboro	TN
View	4110200	T C Telephone LLC d/b/a Horizon Cellular	Cellular	D	Red Bluff	CA
View	4202200	T-Mobile Central, LLC dba T-Mobile	Cellular	A	Bellevue	WA
View	4002500	TAG Mobile, LLC	Cellular	D	Plano	TX
View	4109700	Telecom Management, Inc. dba Pioneer Telephone	Cellular	D	Portland	ME
View	4107200	Telefonica USA, Inc.	Cellular	D	Miami	FL

View	4112100	Tello LLC	Cellular	C	Atlanta	GA
View	4108900	Telrite Corporation	Cellular	D	Covington	GA
View	4108450	Tempo Telecom, LLC	Cellular	B	Atlanta	GA
View	4109000	Ting, Inc.	Cellular	A	Toronto	ON
View	4110400	Torch Wireless Corp.	Cellular	D	Jacksonville	FL
View	4103300	Touchtone Communications, Inc.	Cellular	D	Whippany	NJ
View	4104200	TracFone Wireless, Inc.	Cellular	D	Miami	FL
View	4002000	Truphone, Inc.	Cellular	D	Durham	NC
View	4110300	UVNV, Inc. d/b/a Mint Mobile	Cellular	D	Costa Mesa	CA
View	4110800	Visible Service LLC	Cellular	D	Basking Ridge	NJ
View	4106500	WiMacTel, Inc.	Cellular	D	Palo Alto	CA
View	4110950	Wing Tel Inc.	Cellular	D	New York	NY
View	4112150	Zefcom, LLC	Cellular	C	Wichita Falls	TX

EXHIBIT E
FAA

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

Aeronautical Study No.
2020-ASO-21867-OE

Issued Date: 08/05/2020

Compliance Dept
Diamond Towers V LLC
820 Morris Turnpike
Suite 104
Short Hills, NJ 07078

**** 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 Smith Hollow KY036
Location:	Williamsburg, KY
Latitude:	36-40-30.13N NAD 83
Longitude:	84-16-27.92W
Heights:	1355 feet site elevation (SE)
	265 feet above ground level (AGL)
	1620 feet above mean sea level (AMSL)

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

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

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

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

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

This determination expires on 02/05/2022 unless:

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

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

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (817) 222-5928, or chris.smith@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASO-21867-OE.

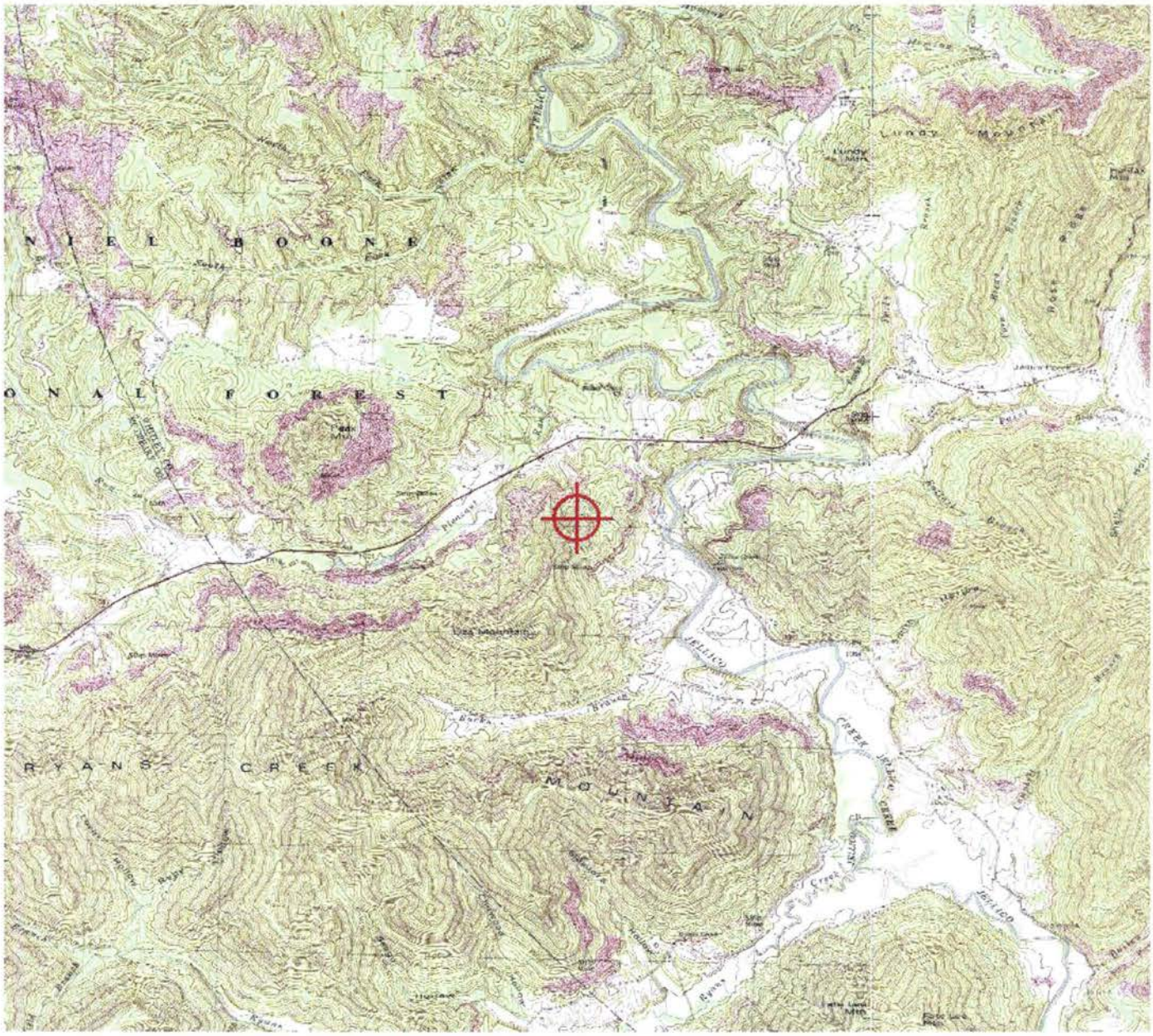
Signature Control No: 446135718-447593872 (DNE)
Chris Smith
Specialist

Attachment(s)
Frequency Data
Map(s)

cc: FCC

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 2020-ASO-21867-OE




(506)
690
293)
1591
(255)
1000
WILLIAMSBURG-
WHITLEY CO (BYL)
AWOS-3 119.575
1178 *L 55 122.7 C
1870
Roc
1216
(296)
1766
(268)
1330
Williamsburg
Whitley
City
MC CREARY CO (18I)
1370 *L 30 123.05 C
29
1215
(260)
1642
(299)
1228
(240)
tearns
prison
1667
(262)
1500
1000
V 347
86
2125
Jellico
1500
1000
1870
(290)
Winfield
Newcomb
2000
2203
(290)
2579

EXHIBIT F
KENTUCKY AIRPORT ZONING COMMISSION

KENTUCKY AIRPORT ZONING COMMISSION

ANDY BESHEAR
Governor

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

JIM GRAY
Secretary

APPROVAL OF APPLICATION

October 15, 2020

APPLICANT
Diamond Towers V LLC
820 Morris Turnpike, Suite 104
Short Hills, NJ 7078

SUBJECT: AS-WHITLEY-18I-2020-120

STRUCTURE:	Antenna Tower
LOCATION:	Williamsburg, KY
COORDINATES:	36° 40' 30.13" N / 84° 16' 27.92" W
HEIGHT:	265' AGL/1620' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 265' AGL/1620' AMSL Antenna Tower near Williamsburg, KY 36° 40' 30.13" N / 84° 16' 27.92" W.

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

Medium Dual Obstruction Lighting Required.

Randall S. Royer

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

Kentucky
UNBRIDLED SPIRIT

EXHIBIT G
GEOTECHNICAL REPORT

POD
POWER OF DESIGN

October 7, 2020

Mr. Scott Von Rein
Diamond Communications
820 Morris Turnpike
Suite 104
Short Hills, NJ 07078

Subject: Geotechnical Study
Site Name: Smith Hollow (KY036)
Site Address: Kentucky Highway 92, Williamsburg KY 40769, Whitley County
Coordinates: N36° 40' 30.13", W84° 16' 27.92"
POD Project No. 20-70355

Dear Mr. Von Rein:

Power of Design (POD) was authorized in September 2020 to complete the Geotechnical Study for the subject Property. We utilized the survey of the subject Property dated July 21, 2020. The Property is located on a forested hillside south of Kentucky Highway 92. The Property includes a proposed 10,000 square foot lease area located on a hill with a proposed approximate 2,600-foot long by 30-foot wide access and utility easement. The proposed easement would extend in a southeastern direction off Kentucky Highway 92 utilizing existing gravel and dirt drives intermittently to the proposed lease area.

Due to existing trees and a steep hillside, it would not be possible for a geotechnical drill rig to access the center of the lease area. In order to complete the requested Geotechnical Investigation, extensive tree-clearing and grading would be necessary.

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

Cordially,

Mark Patterson

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

10/08/2020

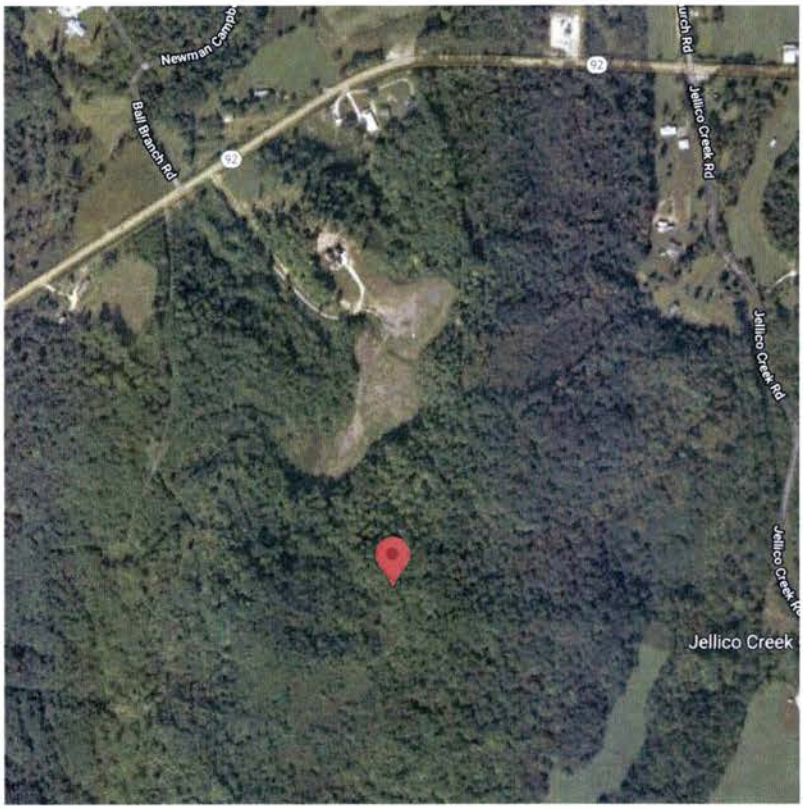
POD
POWER OF DESIGN

Geotechnical Study

Site Name: Smith Hollow
KY036
Site Address: Kentucky Highway 92
Williamsburg, KY
Whitley County

Coordinates: N36˚40' 30.13"
W84˚ 16' 27.92"

POD Project No.: 20-70355



SUBMITTED TO:

Mr. Scott Von Rein
Diamond Communications
820 Morris Turnpike
Suite 104
Short Hills, NJ 07078

PREPARED BY:

Power of Design
11490 Bluegrass Parkway
Louisville, KY 40299

POD
POWER OF DESIGN

October 7, 2020

Mr. Scott Von Rein
Diamond Communications
820 Morris Turnpike
Suite 104
Short Hills, NJ 07078

Re: Subject: **Geotechnical Study**
Site Name: Smith Hollow (KY036)
Site Address: Kentucky Highway 92
Williamsburg, KY
Whitley County
Coordinates: N36° 40' 30.13", W84° 16' 27.92"
POD Project No. 20-70355

Dear Mr. Von Rein:

Power of Design (POD) is pleased to submit this report of our Geotechnical Study for the proposed project. Our services were provided as authorized electronically on September 3, 2020.

This report presents a review of the information provided to us, a description of the site and subsurface conditions, and our recommendations. The appendices contain a USGS Topographic Map and USDA Web Soil Survey map and Soil Descriptions for mapped soil types.

Purpose and Scope of Work

The purpose of this effort was to evaluate the likely site conditions to inform foundation design recommendations. A final Geotechnical Investigation including borings should be conducted for the proposed tower.

Project Information

POD provided a survey dated 07/21/20 of the Property. The Property is located on a forested hillside south of Kentucky Highway 92. We understand that plans call for a new 255-foot tall self-support tower with a 10' lightning arrestor on the site, approximately as shown on Figure 1.

POD
POWER OF DESIGN

Estimated Site and Subsurface Conditions

The topography leading up to the proposed compound varies from gradual to steep slopes. The elevation at the proposed tower location is approximately 1,355 feet AMSL.

The soil survey shows the Bethesda and Fairpoint Soils (9F), and Shelocta-Bouldin complex (14F) soil types for the proposed tower location. A description of these soil types is attached. In summary, the general soil profile description includes unstable fill of very channery silt loam to a depth of approximately 6 inches, unstable fill of very channery silty clay loam to a depth of approximately 65 inches, with rock being below 80 inches.

Recommendations

Based on the deep rock and the possibility of unstable fill material, the tower will likely be supported on a pier foundation system. Groundwater will likely be encountered in the foundation excavation. Assuming solid rock at the tower foundation bearing level, a nominal bearing pressure of about 30 kips per square foot is likely appropriate.

We appreciate the opportunity to be of service.

Cordially,

Mark Patterson

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

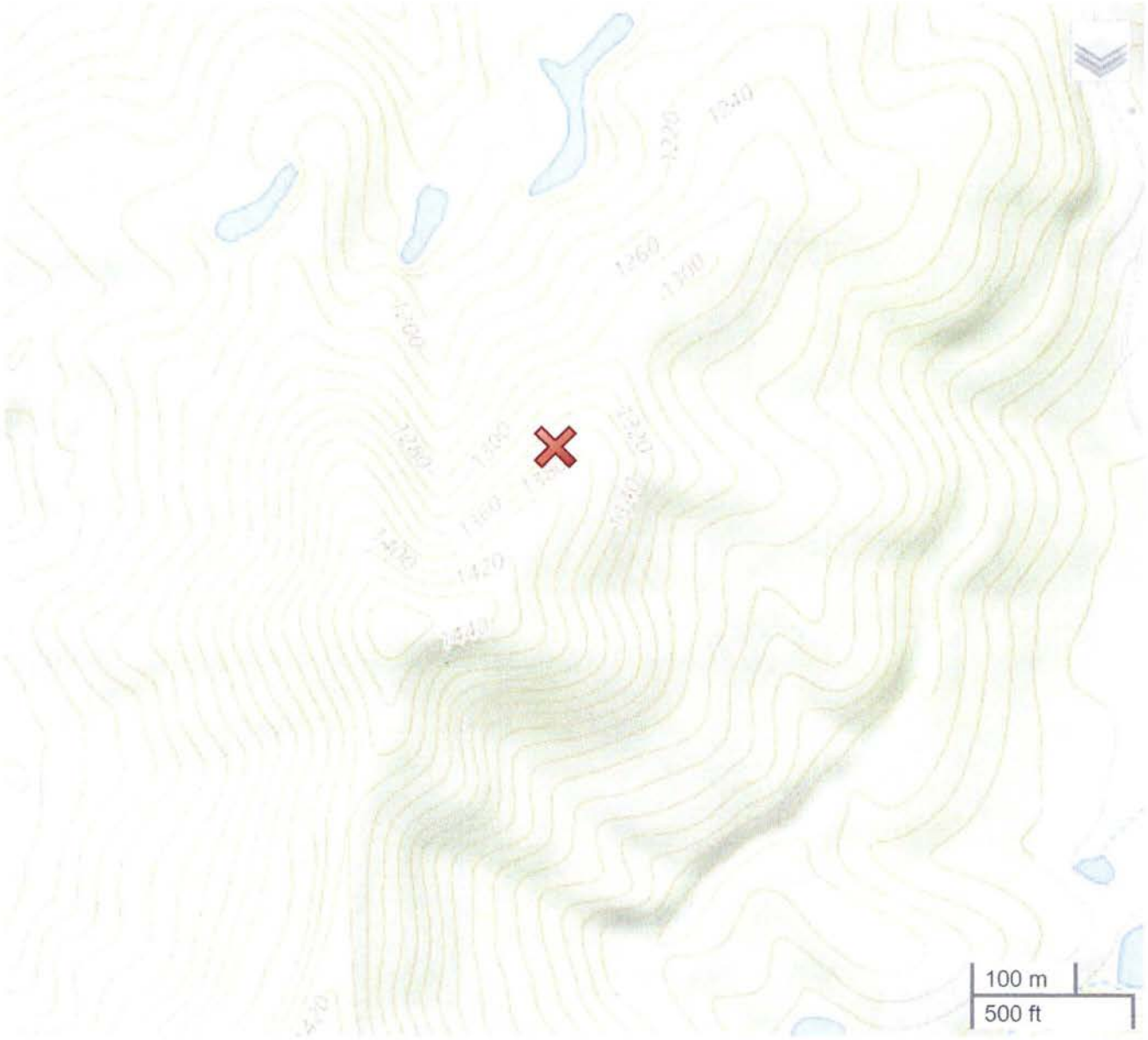
10/08/2020

Appendix A Figure 1 - Topographic Map and Site Survey
Appendix B Soil Survey and Soil Descriptions

POD
POWER OF DESIGN

APPENDIX A

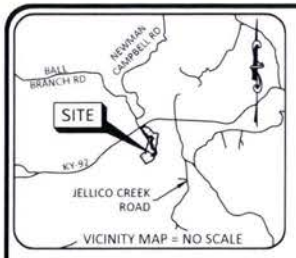
Topographic Map and Site Survey

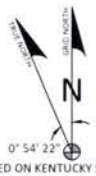


Source: U.S. Geological Survey, 20190410, USGS US Topo 7.5-minute map for Williamsburg, KY 2019: USGS - National Geospatial Technical Operations Center (NGTOC).

= Proposed Site

N	**Site Name:** SMITH HOLLOW KY036 **Site Address:** Kentucky Highway 92 Williamsburg, KY Whitey County **Coordinates:** N36° 40' 30.13" W84° 16' 27.92"	**Figure 1:** **Site Location Plan**





BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON JULY 21, 2020

GLOBAL POSITIONING SYSTEMS NOTE

1. THE BOUNDARY CORNERS 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 0.05' TO 0.07' HORIZONTALLY.
3. SPECTRA PRECISION EPOCH 50 DUAL FREQUENCY RECEIVERS WERE USED TO PERFORM THE SURVEY.

GENERAL NOTES

NO SEARCH OF PUBLIC RECORDS HAS BEEN COMPLETED BY POD GROUP TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT PARCEL.

THIS SURVEY IS FOR THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT ONLY, 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 0.07', FOR A PRECISION OF 1:46,207 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.

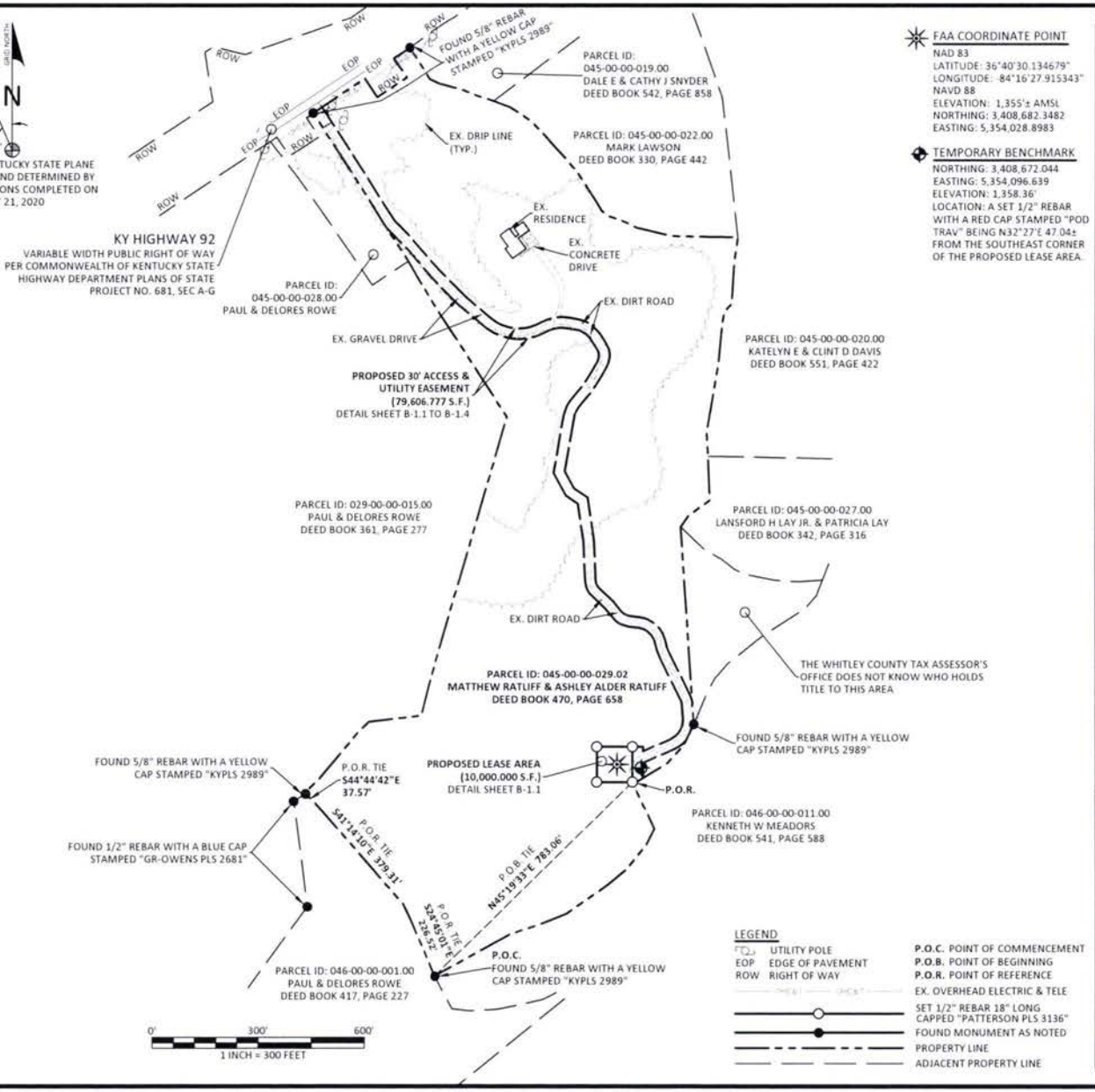
THE PARENT PARCEL, THE PROPOSED LEASE AREA AND THE PROPOSED ACCESS & UTILITY EASEMENT SHOWN HEREON IS LOCATED IN ZONE X AND IS NOT LOCATED IN A 100-YEAR FLOOD PLAIN PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21235C0200E, DATED MARCH 16, 2015.

Kentucky 811
Know what's below. Call before you dig.
1-800-752-6007

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, PLS #3136 DATE



FAA COORDINATE POINT

NAD 83
LATITUDE: 36°40'30.134679"
LONGITUDE: -84°16'27.915343"
NAVD 88
ELEVATION: 1,355'± AMSL
NORTHING: 3,408,682.3482
EASTING: 5,354,028.8983

TEMPORARY BENCHMARK

NORTHING: 3,408,672.044
EASTING: 5,354,096.639
ELEVATION: 1,358.36'
LOCATION: A SET 1/2" REBAR WITH A RED CAP STAMPED "POD TRAV" BEING N32°27'E 47.04± FROM THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA.

LEGEND

- UTILITY POLE
- EOP EDGE OF PAVEMENT
- ROW RIGHT OF WAY
- P.O.C. POINT OF COMMENCEMENT
- P.O.B. POINT OF BEGINNING
- P.O.R. POINT OF REFERENCE
- EX. OVERHEAD ELECTRIC & TELE
- SET 1/2" REBAR 18" LONG CAPPED "PATTERSON PLS 3136"
- FOUND MONUMENT AS NOTED
- PROPERTY LINE
- ADJACENT PROPERTY LINE

PREPARED BY:
POD
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502.437.5252

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

REVISIONS

REV.	DATE	DESCRIPTION
A	8.3.20	PRELIMINARY SURVEY

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBERS:
045-00-00-029.02

PROPERTY OWNER:
MATTHEW RATLIFF &
ASHLEY ALDER RATLIFF
P O BOX 1506
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

SITE NUMBER:
KY036

POD NUMBER:	20-65922
DRAWN BY:	JRS
CHECKED BY:	MEP
SURVEY DATE:	7.21.20
PLAT DATE:	8.3.20

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

SHEET NUMBER: (6 pages)
B-1

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TRUE NORTH
GRID NORTH
N
0° 54' 22"

BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON JULY 21, 2020.

GLOBAL POSITIONING SYSTEMS NOTE

1. THE BOUNDARY CORNERS 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 0.05' TO 0.07' HORIZONTALLY.
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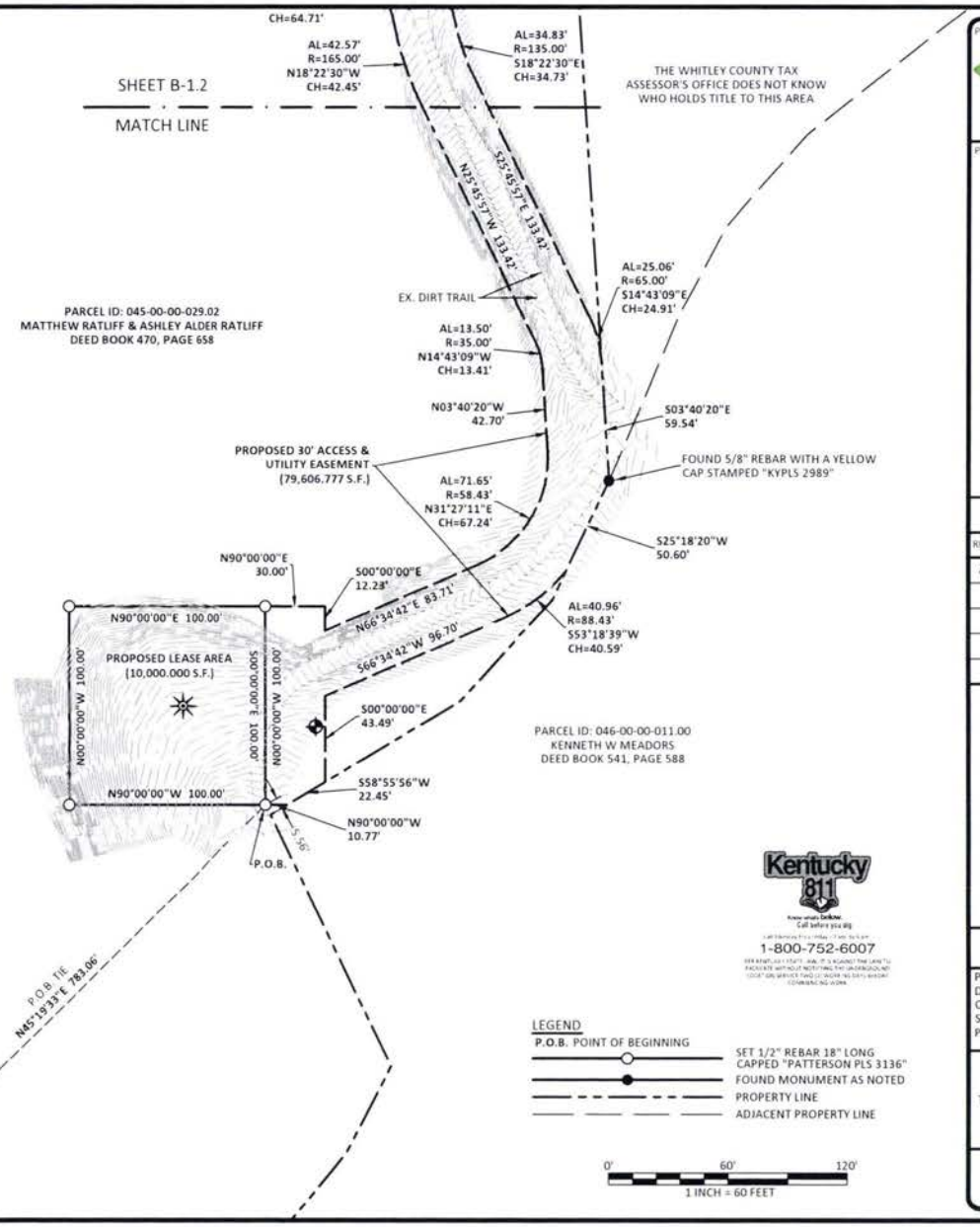
MARK PATTERSON, PLS #3136 DATE



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PREPARED BY:
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POWERED BY PEOPLE
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502.447.5252

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

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SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

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POD NUMBER:	20-65922
DRAWN BY:	JRS
CHECKED BY:	MEP
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PLAT DATE:	8.3.20

SHEET TITLE:
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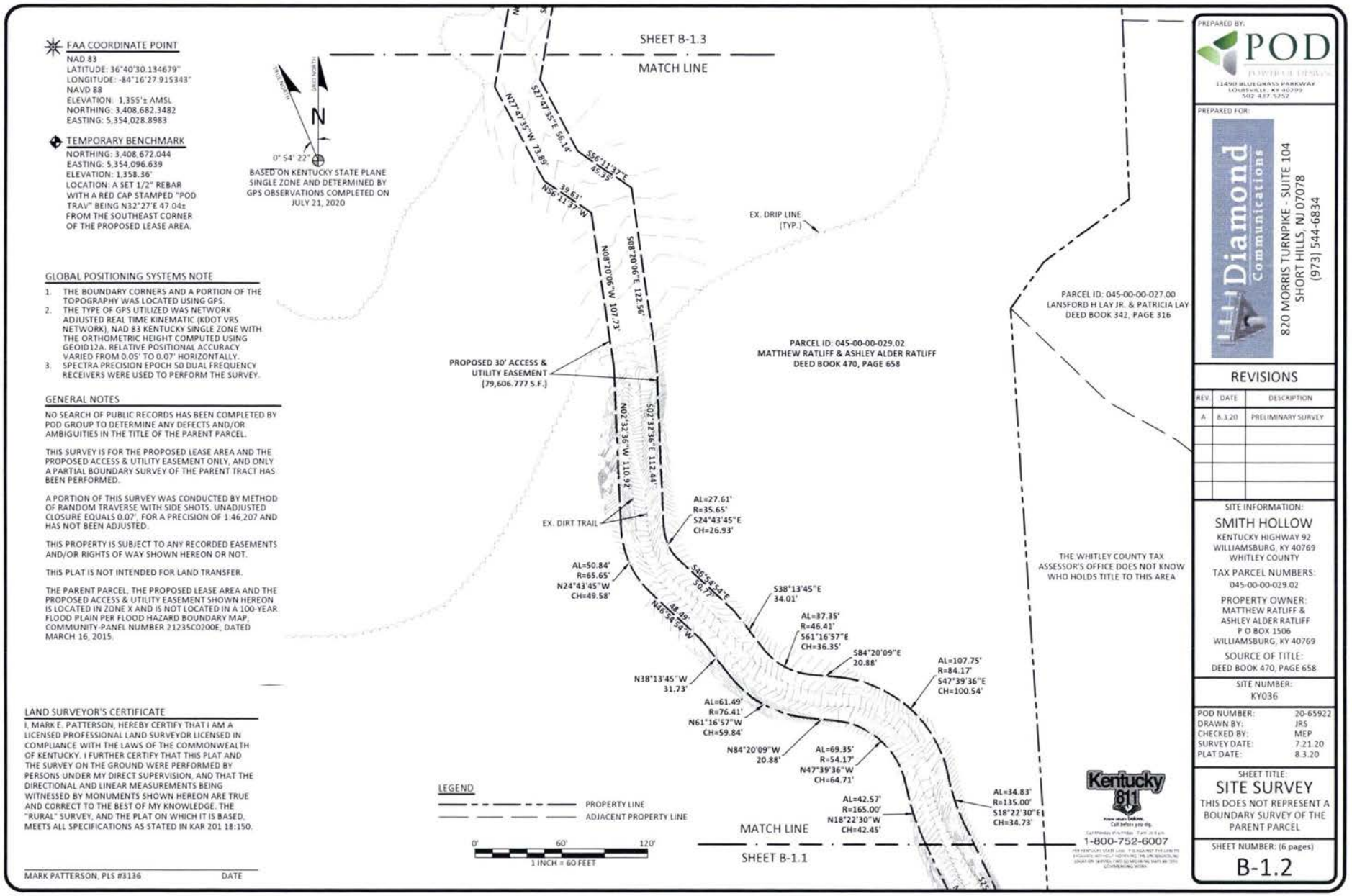
SHEET NUMBER: (6 pages)
B-1.1



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MARK PATTERSON, PLS #3136 DATE

PREPARED BY:
POD
POWERED BY PEOPLE
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502.437.5252

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

REVISIONS

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WHITLEY COUNTY

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045-00-00-029.02

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P O BOX 1506
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SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

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POD NUMBER:	20-65922
DRAWN BY:	JRS
CHECKED BY:	MEP
SURVEY DATE:	7.21.20
PLAT DATE:	8.3.20

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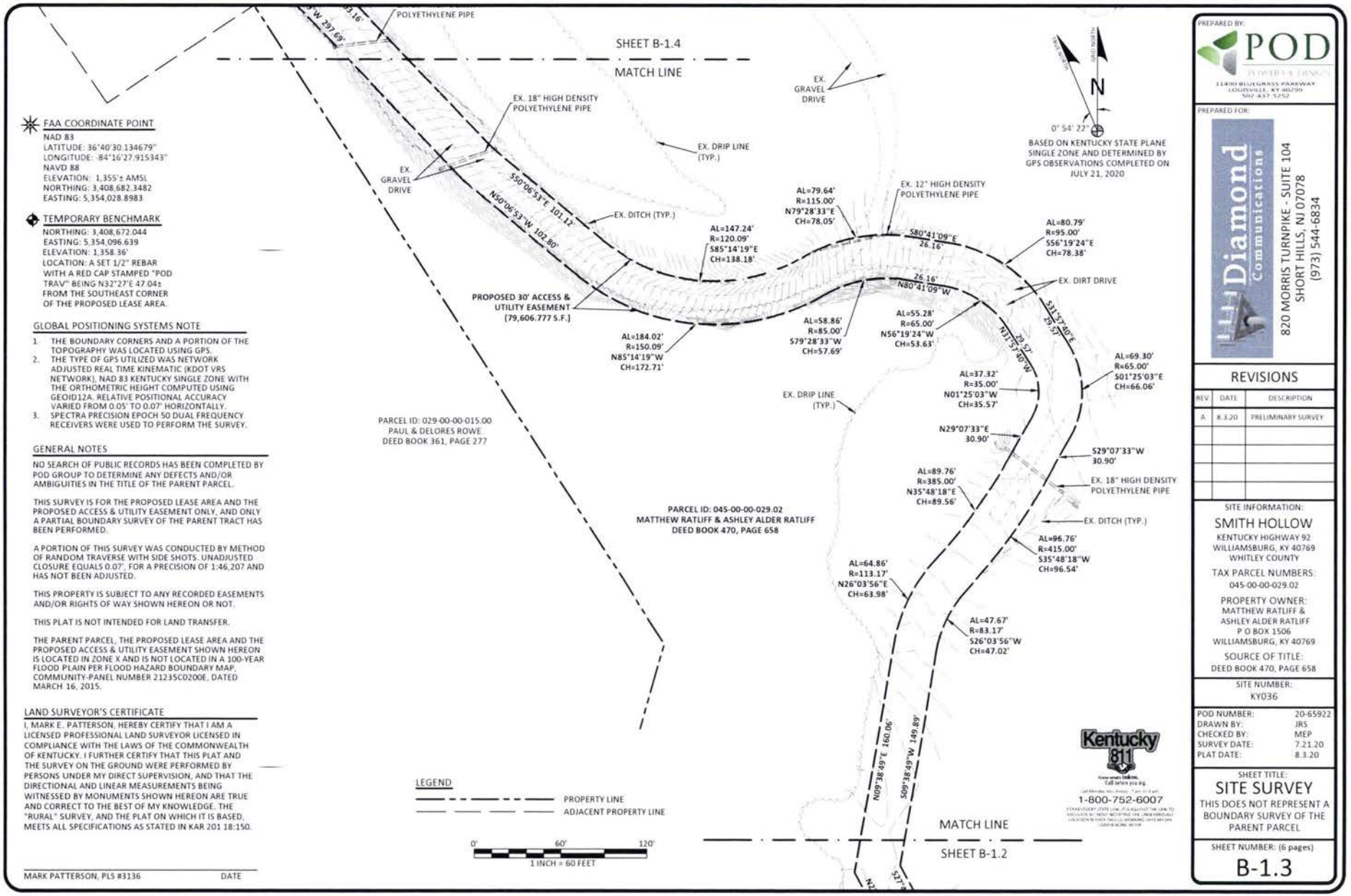
SHEET NUMBER: (6 pages)
B-1.2



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MARK PATTERSON, PLS #3136 DATE

PREPARED BY:
POD
POWERED BY DESIGN
11400 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502.437.5252

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

REVISIONS

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SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

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DRAWN BY:	JRS
CHECKED BY:	MEP
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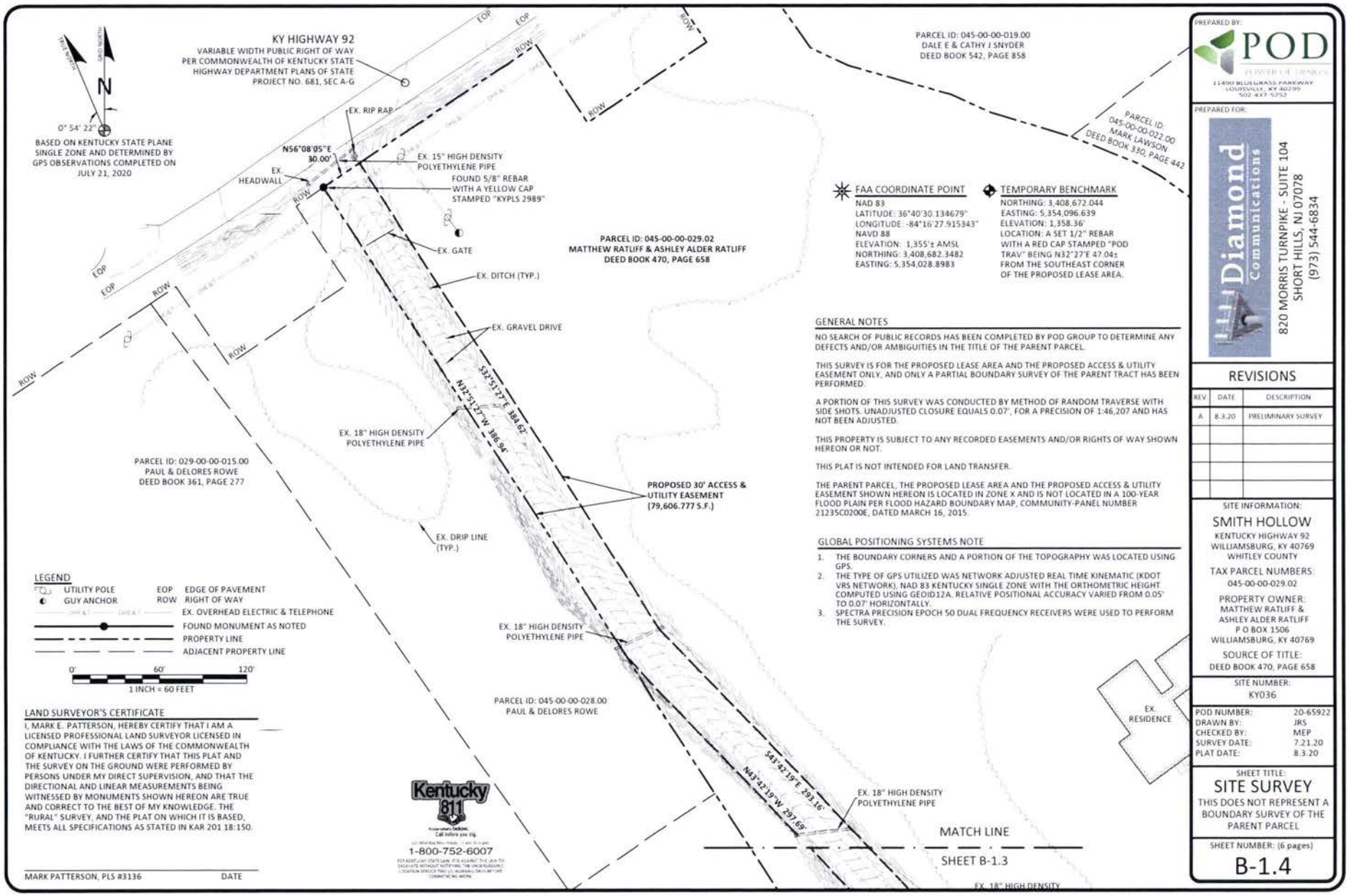
B-1.3



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MARK PATTERSON, PLS #3136 DATE

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POWER OF CHOICE
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SHEET NUMBER: (6 pages)
B-1.4

LEGAL DESCRIPTIONS

PROPOSED LEASE AREA

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED LEASE AREA TO BE LEASED FROM THE PROPERTY CONVEYED TO MATTHEW RATLIFF & ASHLEY ALDER RATLIFF AS RECORDED IN THE OFFICE OF THE CLERK OF WHITLEY COUNTY, KENTUCKY AS DEED BOOK 470, PAGE 658, PARCEL ID: 045-00-00-029.02, 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 JULY 21, 2020.

COMMENCING AT A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989" IN THE SOUTHERN MOST CORNER OF THE PROPERTY CONVEYED TO MATTHEW RATLIFF & ASHLEY ALDER RATLIFF AS RECORDED IN DEED BOOK 470, PAGE 658, PARCEL ID: 045-00-00-029.02 AND BEING A CORNER OF THE PROPERTY CONVEYED TO PAUL & DELORES ROWE AS RECORDED IN DEED BOOK 417, PAGE 227, PARCEL ID: 046-00-00-001.00; FOR REFERENCE, SAID REBAR IS S44°44'42"E 37.57', THENCE S41°14'10"E 379.31', THENCE S24°45'01"E 226.52' FROM A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989" IN THE WESTERN MOST CORNER OF SAID RATLIFF CORNER AND THE NORTHERN MOST CORNER OF SAID ROWE PROPERTY; THENCE TRAVERSING SAID RATLIFF PROPERTY N45°19'33"E 783.06' TO A SET 1/2" REBAR, 18" LONG, CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC" AT THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA AND SAID SET IPC BEING **THE TRUE POINT OF BEGINNING**; THENCE N90°00'00"W 100.00' TO A SET IPC; THENCE N00°00'00"W 100.00' TO A SET IPC; THENCE N90°00'00"E 100.00' TO A SET IPC; THENCE S00°00'00"E 100.00' TO THE POINT OF BEGINNING CONTAINING 10,000.000 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JULY 21, 2020.

PROPOSED 30' ACCESS & UTILITY EASEMENT

THE FOLLOWING IS A DESCRIPTION OF THE PROPOSED 30' ACCESS & UTILITY EASEMENT TO BE GRANTED FROM THE PROPERTY CONVEYED TO THE PROPERTY CONVEYED TO MATTHEW RATLIFF & ASHLEY ALDER RATLIFF AS RECORDED IN THE OFFICE OF THE CLERK OF WHITLEY COUNTY, KENTUCKY AS DEED BOOK 470, PAGE 658, PARCEL ID: 045-00-00-029.02, 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 JULY 21, 2020.

COMMENCING AT A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989" IN THE SOUTHERN MOST CORNER OF THE PROPERTY CONVEYED TO MATTHEW RATLIFF & ASHLEY ALDER RATLIFF AS RECORDED IN DEED BOOK 470, PAGE 658, PARCEL ID: 045-00-00-029.02 AND BEING A CORNER OF THE PROPERTY CONVEYED TO PAUL & DELORES ROWE AS RECORDED IN DEED BOOK 417, PAGE 227, PARCEL ID: 046-00-00-001.00; FOR REFERENCE, SAID REBAR IS S44°44'42"E 37.57', THENCE S41°14'10"E 379.31', THENCE S24°45'01"E 226.52' FROM A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989" IN THE WESTERN MOST CORNER OF SAID RATLIFF CORNER AND THE NORTHERN MOST CORNER OF SAID ROWE PROPERTY; THENCE TRAVERSING SAID RATLIFF PROPERTY N45°19'33"E 783.06' TO A SET 1/2" REBAR, 18" LONG, CAPPED "PATTERSON PLS 3136", HEREAFTER REFERRED TO AS A "SET IPC" AT THE SOUTHEAST CORNER OF THE PROPOSED LEASE AREA AND SAID SET IPC BEING **THE TRUE POINT OF BEGINNING**; THENCE N00°00'00"W 100.00', THENCE N90°00'00"E 30.00'; THENCE S00°00'00"E 12.23'; THENCE N66°34'42"E 83.71'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 58.43', ARC LENGTH OF 71.65', THE CHORD OF WHICH BEARS N31°27'11"E 67.24'; THENCE N03°40'20"W 42.70'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 35.00', ARC LENGTH OF 13.50', THE CHORD OF WHICH BEARS N14°43'09"W 13.41'; THENCE N25°45'57"W 133.42'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 165.00', ARC LENGTH OF 42.57', THE CHORD OF WHICH BEARS N18°22'30"W 42.45'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 54.17', ARC LENGTH OF 69.35', THE CHORD OF WHICH BEARS N47°39'36"W 64.71'; THENCE N84°20'09"W 20.88'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 76.41', ARC LENGTH OF 61.49', THE CHORD OF WHICH BEARS N61°16'57"W 59.84'; THENCE N38°13'45"W 31.73'; THENCE N46°54'54"W 48.49'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.65', ARC LENGTH OF 50.84', THE CHORD OF WHICH BEARS N24°43'45"W 49.58'; THENCE N02°32'36"W 110.92'; THENCE N08°20'06"W 107.73'; THENCE N56°11'37"W 39.63'; THENCE N27°47'35"W 73.89'; THENCE N09°38'49"E 160.06'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 113.17', ARC LENGTH OF 64.86', THE CHORD OF WHICH BEARS N26°03'56"E 63.98'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 385.00', ARC LENGTH OF 89.76', THE CHORD OF WHICH BEARS N35°48'18"E 89.56'; THENCE N29°07'33"E 30.90'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 35.00', ARC LENGTH OF 37.32', THE CHORD OF WHICH BEARS N01°25'03"W 35.57'; THENCE N31°57'40"W 29.57'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 65.00', ARC LENGTH OF 55.28', THE CHORD OF WHICH BEARS N56°19'24"W 53.63'; THENCE N80°41'09"W 26.16'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 85.00', ARC LENGTH OF 58.86', THE CHORD OF WHICH BEARS S79°28'33"W 57.69'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE RIGHT HAVING A RADIUS OF 150.09', ARC LENGTH OF 184.02', THE CHORD OF WHICH BEARS N85°14'19"W 172.71'; THENCE N50°06'53"W 102.80'; THENCE N43°42'19"W 297.69'; THENCE N32°51'27"W 386.94' TO A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989" IN THE SOUTH RIGHT OF WAY LINE OF KENTUCKY HIGHWAY 92 (PER COMMONWEALTH OF KENTUCKY STATE HIGHWAY DEPARTMENT - PLAN AND PROFILE OF PROPOSED STATE HIGHWAY - MCCREARY-WHITLEY COUNTIES STATE PROJECT # 681, SEC A-G); THENCE ALONG SAID SOUTH RIGHT OF WAY N56°08'05"E 30.00'; THENCE LEAVING SAID SOUTH RIGHT OF WAY LINE OF KENTUCKY HIGHWAY 92 S32°51'27"E 384.62'; THENCE S43°42'19"E 293.16'; THENCE S50°06'53"E 101.12'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 120.09', ARC LENGTH OF 147.24', THE CHORD OF WHICH BEARS S85°14'19"E 138.18'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE RIGHT HAVING A RADIUS OF 115.00', ARC LENGTH OF 79.64', THE CHORD OF WHICH BEARS N79°28'33"E 78.05'; THENCE S80°41'09"E 26.16'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 95.00', ARC LENGTH OF 80.79', THE CHORD OF WHICH BEARS S56°19'24"E 78.38'; THENCE S31°57'40"E 29.57'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.00', ARC LENGTH OF 69.30', THE CHORD OF WHICH BEARS S01°25'03"E 66.06'; THENCE S29°07'33"W 30.90'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 415.00', ARC LENGTH OF 96.76', THE CHORD OF WHICH BEARS S35°48'18"W 96.54'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 83.17', ARC LENGTH OF 47.67', THE CHORD OF WHICH BEARS S26°03'56"W 47.02'; THENCE S09°38'49"W 149.89'; THENCE S27°47'35"E 56.14'; THENCE S56°11'37"E 45.35'; THENCE S08°20'06"E 122.56'; THENCE S02°32'36"E 112.44'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 35.65', ARC LENGTH OF 27.61', THE CHORD OF WHICH BEARS S24°43'45"E 26.93'; THENCE S46°54'54"E 50.77'; THENCE S38°13'45"E 34.01'; THENCE ALONG THE ARC OF A CURVE TO THE LEFT HAVING A RADIUS OF 46.41', ARC LENGTH OF 37.35', THE CHORD OF WHICH BEARS S61°16'57"E 36.35', THENCE S84°20'09"E 20.88'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 84.17', ARC LENGTH OF 107.75', THE CHORD OF WHICH BEARS S47°39'36"E 100.54'; THENCE ALONG THE ARC OF A REVERSE CURVE TO THE LEFT HAVING A RADIUS OF 135.00', ARC LENGTH OF 34.83', THE CHORD OF WHICH BEARS S18°22'30"E 34.73'; THENCE S25°45'57"E 133.42'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 65.00', ARC LENGTH OF 25.06', THE CHORD OF WHICH BEARS S14°43'09"E 24.91' TO A POINT IN THE EAST LINE OF SAID RATLIFF PROPERTY; THENCE ALONG SAID EAST LINE S03°40'20"E 59.54' TO A FOUND 5/8" REBAR WITH A YELLOW CAP STAMPED "KYPLS 2989", BEING A CORNER OF SAID RATLIFF PROPERTY AND OF THE PROPERTY CONVEYED TO KENNETH W MEADORS AS RECORDED IN DEED BOOK 541, PAGE 588, PARCEL ID: 046-00-00-011.00, THENCE S25°18'20"W 50.60'; THENCE ALONG THE ARC OF A CURVE TO THE RIGHT HAVING A RADIUS OF 88.43', ARC LENGTH OF 40.96', THE CHORD OF WHICH BEARS S53°18'39"W 40.59'; THENCE S66°34'42"W 96.70'; THENCE S00°00'00"E 43.49' TO A POINT ON THE EAST LINE OF SAID RATLIFF PROPERTY; THENCE ALONG SAID LINE S58°55'56"W 22.45'; THENCE LEAVING SAID LINE OF RATLIFF PROPERTY N90°00'00"W 10.77' TO THE POINT OF BEGINNING CONTAINING 79,606.777 SQUARE FEET AS PER SURVEY BY MARK E. PATTERSON, PLS #3136 DATED JULY 21, 2020.

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, PLS #3136 DATE

PREPARED BY:
POD
POWER OF DESIGN
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502.437.5252

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

REVISIONS

REV	DATE	DESCRIPTION
A	8.3.20	PRELIMINARY SURVEY

SITE INFORMATION:

SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBERS:
045-00-00-029.02

PROPERTY OWNER:
MATTHEW RATLIFF &
ASHLEY ALDER RATLIFF
P O BOX 1506
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

SITE NUMBER:
KY036

POD NUMBER:	20-65922
DRAWN BY:	JRS
CHECKED BY:	MEP
SURVEY DATE:	7.21.20
PLAT DATE:	8.3.20

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

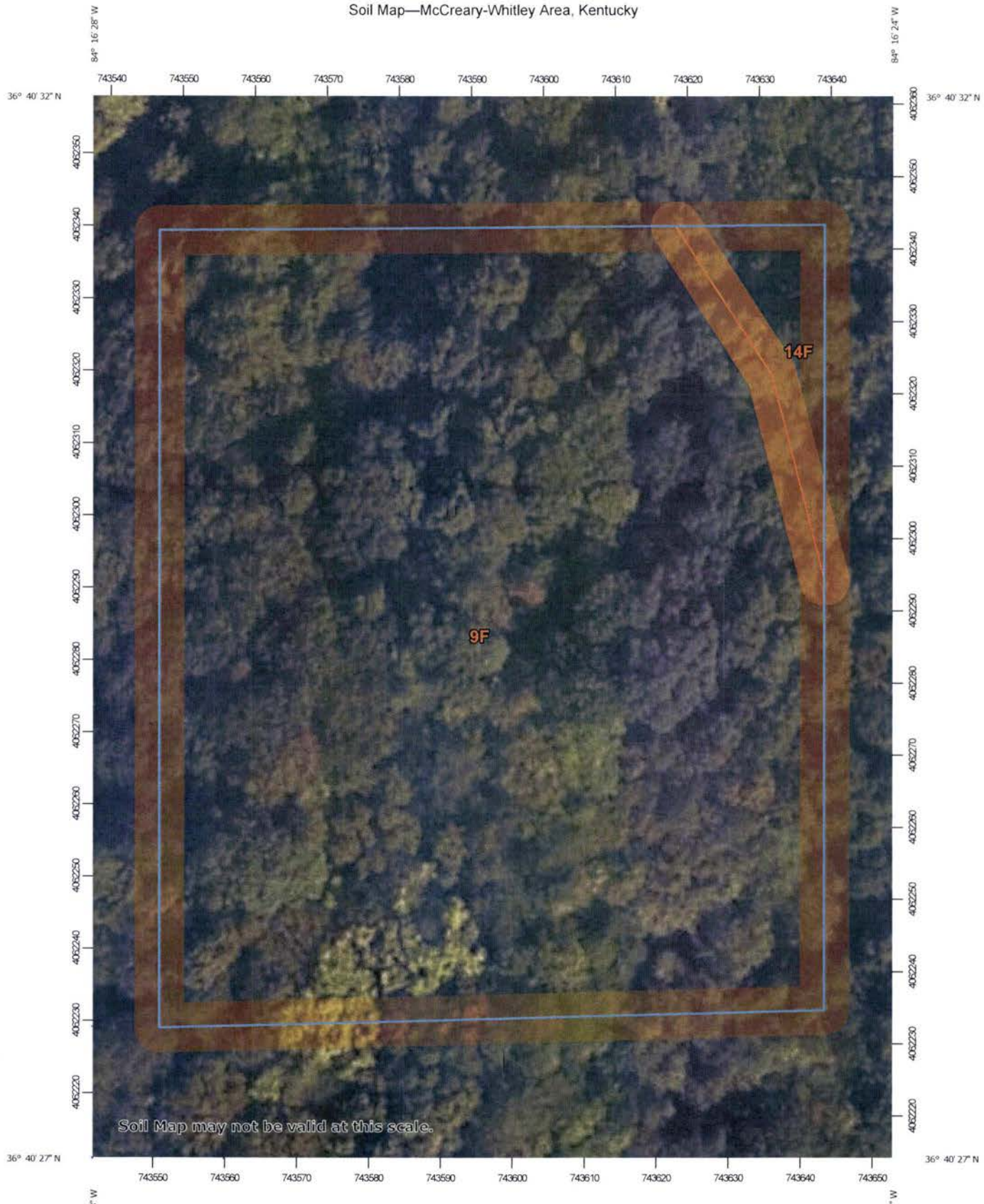
SHEET NUMBER: (6 pages)
B-1.5

POD
POWER OF DESIGN

APPENDIX B

Soil Survey and Soil Descriptions

Soil Map—McCreary-Whitley Area, Kentucky



Map Scale: 1:716 if printed on A portrait (8.5" x 11") sheet.

N

Meters: 0 10 20 40 60

Feet: 0 30 60 120 180

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)
- Area of Interest (AOI)

Soils
- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features
- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features
- Streams and Canals

Transportation
- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background
- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: McCreary-Whitley Area, Kentucky
Survey Area Data: Version 19, May 28, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 16, 2019—Sep 22, 2019

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
9F	Bethesda and Fairpoint soils, 20 to 70 percent slopes	2.4	96.1%
14F	Shelocta-Bouldin complex, 30 to 75 percent slopes, extremely stony, very rocky	0.1	3.9%
Totals for Area of Interest		**2.5**	**100.0%**

Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

Report—Map Unit Description

McCreary-Whitley Area, Kentucky

9F—Bethesda and Fairpoint soils, 20 to 70 percent slopes

Map Unit Setting

National map unit symbol: ng90
Elevation: 800 to 2,130 feet

Mean annual precipitation: 27 to 37 inches
Mean annual air temperature: 36 to 56 degrees F
Frost-free period: 131 to 170 days
Farmland classification: Not prime farmland

Map Unit Composition

Bethesda, unstable fill, and similar soils: 41 percent
Fairpoint, unstable fill, and similar soils: 39 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bethesda, Unstable Fill

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy coal extraction mine spoil derived from sandstone and shale

Typical profile

H1 - 0 to 6 inches: very channery silt loam
H2 - 6 to 65 inches: very channery clay loam

Properties and qualities

Slope: 20 to 70 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

Description of Fairpoint, Unstable Fill

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Concave
Across-slope shape: Linear

Parent material: Loamy coal extraction mine spoil derived from sandstone and shale

Typical profile

H1 - 0 to 5 inches: very channery silt loam
H2 - 5 to 65 inches: very channery silty clay loam

Properties and qualities

Slope: 20 to 70 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Sequoia

Percent of map unit: 5 percent
Hydric soil rating: No

Shelocta

Percent of map unit: 5 percent
Hydric soil rating: No

Wernock

Percent of map unit: 5 percent
Hydric soil rating: No

Lily

Percent of map unit: 5 percent
Hydric soil rating: No

14F—Shelocta-Bouldin complex, 30 to 75 percent slopes, extremely stony, very rocky

Map Unit Setting

National map unit symbol: spdg
Elevation: 800 to 2,130 feet
Mean annual precipitation: 27 to 37 inches
Mean annual air temperature: 36 to 56 degrees F
Frost-free period: 131 to 170 days
Farmland classification: Not prime farmland

Map Unit Composition

Shelocta and similar soils: 45 percent
Bouldin and similar soils: 25 percent
Minor components: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Shelocta

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Mountainbase
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Fine-loamy colluvium derived from sandstone and shale

Typical profile

H1 - 0 to 5 inches: channery silt loam
H2 - 5 to 48 inches: silty clay loam
H3 - 48 to 65 inches: channery silt loam

Properties and qualities

Slope: 20 to 75 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Moderate (about 8.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: B
Hydric soil rating: No

Description of Bouldin

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy colluvium derived from sandstone and shale

Typical profile

H1 - 0 to 4 inches: channery loam
H2 - 4 to 15 inches: very channery loam
H3 - 15 to 85 inches: very channery clay loam

Properties and qualities

Slope: 20 to 75 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Ramsey

Percent of map unit: 5 percent
Hydric soil rating: No

Gilpin

Percent of map unit: 5 percent
Hydric soil rating: No

Rock outcrop

Percent of map unit: 5 percent
Hydric soil rating: No

Wallen

Percent of map unit: 5 percent
Hydric soil rating: No

Kimper

Percent of map unit: 2 percent
Hydric soil rating: No

Wernock

Percent of map unit: 2 percent
Hydric soil rating: No

Muse

Percent of map unit: 2 percent
Hydric soil rating: No

Alticrest

Percent of map unit: 1 percent
Hydric soil rating: No

Lily

Percent of map unit: 1 percent
Hydric soil rating: No

Craigsville

Percent of map unit: 1 percent
Hydric soil rating: No

Sequoia

Percent of map unit: 1 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: McCreary-Whitley Area, Kentucky
Survey Area Data: Version 19, May 28, 2020

EXHIBIT H
DIRECTIONS TO WCF SITE

Driving Directions to Proposed Tower Site

1. Beginning at the Whitley County Clerk's Office, located at 200 Main Street #2, Williamsburg, Kentucky 40769, head southwest on Main Street (toward N. 3rd Street) and travel approximately 0.2 miles.
2. Continue straight onto State Hwy 296 / Main Street and travel approximately 1.7 miles.
3. Turn right onto KY-92 W and travel approximately 7.7 miles.
4. The site access is on the left off of KY-92.
5. The site coordinates are:
    a. North 36 deg 40 min 30.13 sec
    b. West 84 deg 16 min 27.91 sec

Prepared by:
Chris Shouse
Pike Legal Group PLLC
1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

EXHIBIT I
COPY OF REAL ESTATE AGREEMENT

OPTION AND GROUND LEASE AGREEMENT

THIS OPTION AND GROUND LEASE AGREEMENT ("Agreement") is made this 9th day of Sept. 2020, by and between Matthew and Ashley Ratliff, individuals ("Optionor") and DIAMOND TOWERS V LLC, a Delaware limited liability company ("Optionee").

I. OPTION TO LEASE

1. Grant of Option. For good and valuable consideration and the mutual promises herein set forth, Optionor hereby gives and grants unto Optionee and its assigns, an exclusive and irrevocable option ("Option") to lease a certain parcel of real property, located at West Highway 92, City of Williamsburg, County of Whitley, State of Kentucky more particularly described on Exhibit "A", and survey or site plan shown on Exhibit "A-1", attached hereto ("Leased Premises"); together with an easement, or easements, for ingress, egress and utilities for the duration of the lease on the property which is more particularly described on Exhibit "B" attached hereto ("Easement"). Optionor agrees and acknowledges the Optionee may, at Optionee's sole cost and expense, have a metes and bounds survey prepared of the Leased Premises and the Easement, and that the legal description of the Leased Premises and the Easement, as shown on the survey, shall thereafter become the legal description of the Leased Premises and the Easement.

2. Option Initial Term. The initial term of this Option shall be for twelve (12) months from the Effective Date ("Option Initial Term").

3. Consideration for Option. Consideration for the Initial Term of the Option granted hereunder shall be [redacted] ("Option Consideration").

4. Extension of Option. This Option can be extended at the discretion of Optionee for one (1) additional period of twelve (12) months ("Option Renewal Terms") by Optionee paying to Optionor the additional consideration of [redacted] prior to the expiration of the Option Initial Term or any Option Renewal Term. The Option Initial Term and all Option Renewal Terms shall hereinafter be referred to collectively as the "Option Term."

5. Optionor's Representations and Warranties. As an inducement for Optionee to enter into and be bound by the terms of this Option, Optionor represents and warrants to Optionee and Optionee's successors and assigns that:

(a) Optionor has good and marketable title to the Leased Premises and the Easement free and clear of all liens and encumbrances;

(b) Optionor has the authority to enter into and be bound by the terms of this Option;

(c) There are no pending or threatened administrative actions, including bankruptcy or insolvency proceedings under state or federal law, suits, claims or causes of action against Optionor or which may otherwise affect the Leased Premises; and

(d) The Leased Premises are not presently subject to an option, lease or other contract which may adversely affect Optionor's ability to fulfill its obligations under this Option and Optionor covenants that it shall not grant an option or enter into any contract which will affect the Leased Premises or the Easement until this Option expires or is terminated by Optionee.

These representations and warranties of Optionor shall survive the exercise of the Option and the closing anticipated by the exercise of this Option.

6. Liquidated Damages. In the event of a default or breach of this Option by Optionee, Optionor's damages shall be fixed and liquidated to the sums paid by Optionee to Optionor as consideration for this Option. Optionor hereby expressly waives any other remedies it may have for a breach of this Option by Optionee including specific performance and damages for breach of contract.

7. Inspections and Investigations. Optionor hereby grants to Optionee, its officers, agents, employees and independent contractors the right and privilege to enter upon the Leased Premises and the Easement at any time after the Effective Date to perform, or cause to be performed, test borings of the soil, environmental audits, engineering studies and to conduct a survey of the Leased Premises and the Easement. Optionor shall provide Optionee with any necessary keys or access codes to the Leased Premises if needed for ingress and egress. Optionee shall not unreasonably interfere with Optionor's use of the Leased Premises or the Easement in conducting these activities. Optionee shall have the right, at its cost and expense, to have the Leased Premises and the Easement surveyed and to obtain a title report or commitment for a leasehold title policy covering the Leased Premises and the Easement from the title insurance company of its choice. Optionor shall remove any survey or title defects, which will adversely affect Optionee's leasehold title or its ability to insure or mortgage the leasehold interest. In the event Optionor shall fail to cure any such defects, Optionee, at its election, may declare this Option to be void and of no further effect in which case there shall be no further liability on the part of Optionee to Optionor.

8. Further Acts. Optionor shall cooperate with Optionee in executing any documents necessary to protect Optionee's rights under this Option or Optionee's use of the Leased Premises and the Easement and to take such action as Optionee may reasonably require to effect the intent of this Option. Optionor hereby irrevocably appoints Optionee or Optionee's agent as Optionor's agent to file applications on behalf of Optionor with federal, state and local governmental authorities which applications relate to Optionee's intended use of the Leased Premises including but not limited to land use and zoning applications.

9. Assignment of Option. This Option may be sold, assigned or transferred at any time by Optionee without the written consent of Optionor. Upon notification to Optionor of such sale, assignment or transfer, Optionee shall immediately be released from any and all liability

under this Agreement, including the payment or any rental or other sums due, without any further action.

10. Change in Status or Property. If during the Option Term, or during the Term, if the Option is exercised, Optionor/Lessor decides to subdivide, sell, or change the status of the zoning of the Premises, the Property or any of Lessor's contiguous, adjoining or surrounding property (the "Surrounding Property"), or in the event of a threatened foreclosure on any of the foregoing, Optionor/Lessor shall immediately notify Optionee/Lessee in writing. Optionor/Lessor agrees that during the Option Term, or during the Term if the Option is exercised, Optionor/Lessor shall not initiate or consent to any change in the zoning of the Premises, the property or the Surrounding Property or impose or consent to any other use or restriction that would prevent or limit Optionee/Lessee from using the Premises for the Intended Use, as further defined herein. Any and all terms and conditions of the Agreement that by sense or context are intended to be applicable during the Option Term shall be so applicable.

II. GROUND LEASE AGREEMENT

11. Exercise of Option. Upon the tender of written notice of Optionee's intent to exercise the Option, the following lease provisions ("Lease") shall govern the relationship of the parties, and Optionor shall thereafter be referred to as Lessor, and Optionee shall thereafter be referred to as Lessee. The date of the written notice to exercise the Option shall constitute the commencement date of the Lease ("Commencement Date").

12. Use. The Leased Premises may be used by Lessee for the transmission and receipt of wireless communication signals in any and all frequencies and the construction, maintenance, operation, repair, replacement and upgrade of communications fixtures and related equipment, cables, accessories and improvements, which may include a suitable single support structure or tower, associated antennas, equipment shelters or cabinets, buildings, fencing and related facilities and activities. Lessor agrees to cooperate with Lessee in obtaining, at Lessee's expense, all licenses and permits required for Lessee's use of the Leased Premises (the "Governmental Approval"). Lessor authorizes Lessee to prepare, execute and file all required applications to obtain Governmental Approval for the Intended Use and agrees to reasonably assist Lessee with such applications and with obtaining and maintaining Government Approvals. Lessee may construct additional improvements, demolish and reconstruct improvements, or restore, replace and reconfigure improvements at any time during the Initial Term or any Renewal Term of this Lease. In the event Lessee desires to modify or upgrade the Tower Facilities, as further defined herein, in a manner that requires an additional portion of the property (the "Additional Premises") for such modification or upgrade, Lessor agrees to lease to Lessee the Additional Premises, upon the same terms and conditions set forth herein, except that Rent, as further defined herein, shall increase, in conjunction with the lease of the Additional Premises by the amount equivalent to the then current per square foot rental rate charge by Lessor to Lessee times the square footage of the Additional Premises. Lessor agrees to take such actions and enter into and deliver to Lessee such documents as Lessee reasonably requests in order to effect and memorialize the lease of the Additional Premises to Lessee.

13. Initial Term. The term of this Lease shall be five (5) years commencing on the Commencement Date, as that term is defined in Section 11 above, and terminating on the fifth (5th) anniversary of the Commencement Date ("Initial Term").

14. Renewal Terms. Lessee shall have the right to extend this Lease for nine (9) additional five (5) year terms (each a "Renewal Term"). Each Renewal Term shall be on the same terms and conditions as set forth in this Lease. This Lease shall automatically be renewed for each successive Renewal Term unless Lessee notifies Lessor of Lessee's intention not to renew the Lease at least thirty (30) days prior to the expiration of the Initial Term or the Renewal Term which is then in effect. If Lessee remains in possession of the Leased Premises after the termination of this Agreement, then Lessee shall be deemed to be occupying the Leased Premises on a month to month basis ("Holdover Term"), subject to the terms and conditions of this Agreement. Hereinafter, the Initial Term, any Renewal Term and any Holdover Term may be collectively referred to as the "Term."

15. Rent. Commencing on the first day of the calendar month following the date that Lessee commences construction on the Leased Premises ("Rent Commencement Date"), during the Initial Term and each Renewal Term of this Lease, Lessee shall pay to Lessor the amount of rent ("Rent") provided in the Rent Schedule attached hereto as Exhibit "C", which shall be deemed to include any applicable State, County or local sales or use tax. It shall be the sole responsibility of the Lessor to remit payment of any applicable State, County or local sales or use tax to the appropriate taxing authority. Rent shall be payable in advance on or before the fifteenth (15th) day of each calendar month, and shall be remitted to the address shown for Lessor in this Lease, or such other address as Lessor may direct by notice in writing to Lessee. If the Commencement Date, or the date of termination (the "Termination Date"), of this Lease is other than the first (1st) day of a calendar month, rent shall be prorated. In the event of termination for any reason, other than nonpayment of Rent, all advance Rent paid to Lessor with respect to the period after the Termination Date shall be refunded to Lessee.

16. Lessor's Representations and Warranties. Lessor represents and warrants that Lessee's intended use of the Leased Premises as a site for the transmission and receipt of wireless communication signals; for the construction and maintenance of towers, antennas or buildings; and related facilities ("Intended Use") is not prohibited by any covenants, restrictions, reciprocal easements, servitudes, subdivision rules or regulations. Lessor further represents and warrants that there are no easements, licenses, rights of use or other encumbrances on the Leased Premises which will interfere with or constructively prohibit Lessee's Intended Use of the Leased Premises. Lessor further represents and warrants that the execution of this Lease by Lessor will not cause a breach or an event of default of any other agreement to which Lessor is a party.

17. Conditions Subsequent. In the event that Lessee's Intended Use of the Leased Premises is actually or constructively prohibited through no fault of Lessee or the Leased Premises is, in Lessee's opinion, unacceptable to Lessee, then Lessee shall have the right to terminate this Lease. Lessee shall not be entitled to a refund from Lessor of any deposits or Rent paid in advance to Lessor which sums were paid prior to the date upon which Lessee gives Lessor notice of its intent to terminate this Lease pursuant to this Section.

18. Interference. Lessor shall not use, nor shall Lessor permit its lessees, licensees, invitees or agents to use any portion of adjacent real property owned by Lessor in any way which interferes with the wireless communications operation of Lessee. Such interference shall be deemed a material breach of this Lease by Lessor and Lessor shall have the responsibility to terminate said interference. In the event any such interference does not cease or is not promptly rectified, Lessor acknowledges that continuing interference will cause irreparable injury to Lessee, and Lessee shall have the right, in addition to any other rights that it may have at law or in equity, to bring action to enjoin such interference or to terminate this Lease immediately upon notice to Lessor. Lessor will not grant after the Effective Date, a lease, license or any other right to any third party, if the exercise of such grant may in any way adversely affect or interference with the Tower Facilities, the operations of Lessee or the rights of Lessee under this Agreement. Lessor will notify Lessee in writing prior to granting any third party the right to install and operate communications equipment on the property. For the purposes of this Agreement, "interference" may include, but is not limited to, any use on the property or Surrounding Property that causes electronic or physical obstruction with, or degradation of, the communication signals from the Tower Facilities.

19. Improvements; Utilities, Access and Landscaping.

(a) Lessee shall have the right at Lessee's sole cost and expense, to erect and maintain on the Leased Premises improvements, personal property and facilities, including without limitation, tower(s), a structural tower base(s), radio transmitting and receiving antennas, communications equipment, equipment cabinet(s) and/or shelter(s) and related facilities (collectively the "Tower Facilities"). The Tower Facilities shall remain the exclusive property of the Lessee throughout the term and upon termination of this Lease. Lessor grants Lessee the right to clear all trees, undergrowth, or other obstructions and to trim, cut, and keep trimmed and cut all tree limbs which may interfere with or fall upon Lessee's tower or Lessee's other improvements, communications equipment or Easement rights. Lessor grants Lessee a non-exclusive easement in, over, across and through other real property owned by Lessor as reasonably required for construction, installation, maintenance, and operation of the Tower Facilities. In the event that the tower to be constructed by Lessee on the Leased Premises is a guyed tower, Lessor also grants Lessee an easement over Lessor's real property during the Initial Term and any Renewal Term of this Lease for any guy wires and guy wire anchors.

(b) Lessee shall have the right to install utilities, at Lessee's expense, and to improve present utilities on the Leased Premises (including but not limited to the installation of emergency power generators). Lessee shall have the right to permanently place utilities on the Easement to service the Leased Premises and the Tower Facilities as long as such utilities are placed underground and no overhead poles are used. In the event that utilities necessary to serve the equipment of Lessee or the equipment of Lessee's licensee(s) or sublessee(s) cannot be located within the Easement for ingress and egress, Lessor agrees to cooperate with Lessee and to act reasonably in allowing the location of utilities on other real property owned by Lessor without requiring additional compensation from Lessee or Lessee's licensee(s) or sublessee(s). Lessor shall, upon Lessee's request, execute a separate written easement to the Lessee or to the utility company providing the service, in a form which may be filed of record evidencing this

right. Lessee shall have its own meters for utilities and pay for their own use of any utilities directly to the provider.

(c) Lessor represents and warrants to Lessee that Lessee shall, at all times during this Lease, enjoy ingress, egress, and access from the Leased Premises to an open and improved public road which presently exists, and which Easement shall be adequate to service the Leased Premises and the Tower Facilities. If no such public road exists, or ceases to exist in the future, Lessor will grant an appropriate easement to Lessee, Lessee's sublessees and assigns so that Lessee may, at its own expense, construct a suitable private access drive to the Leased Premises and the Tower Facilities. To the degree such access is across other property owned by Lessor, Lessor shall execute an easement evidencing this right and Lessor shall maintain access to the Easement in a free and open condition so that no interference is caused to Lessee, by other lessees, licensees, invitees or agents of the Lessor which may utilize the Easement. Lessee shall provide such access to the Leased Premises across Lessor's adjacent property, and over all paved or unpaved roads owned or controlled by Lessor, to allow Lessee, or its sublessees, to use, maintain and repair the improvements located on the Leased Premises. Such access shall be provided twenty-four (24) hours per day, seven (7) days per week via a locked solar power gate with remotes and a keypad access that Lessee shall provide at its own expense at the driveway entrance to the property. Lessor shall approve such gate and keypad prior to installation. Lessee shall use best efforts to provide Lessor with prior notice before accessing the Leased Premises via phone or text. If Lessor intentionally fails to provide the access granted by this Lease, such failure shall be deemed a default under the Lease and in connection with such default, in addition to any other rights or remedies available to Lessee under this Lease or at law or equity, Lessor shall pay Lessee, as liquidated damages, and not as a penalty, Five Hundred and 00/100 Dollars ($500.00) per day in consideration of Lessee's damages under Lessor cures such default. Lessor and Lessee agree that Lessee's damages in the event of a denial of access are difficult, if not impossible, to ascertain, and the liquidated damages set forth are a reasonable approximation of such damages.

(d) In the event a Governmental Approval necessary for the construction operation and/or maintenance of the Tower Facilities requires landscaping around the Tower Facilities and such required landscaping cannot be located within the Leased Premises, as determined by Lessee, Lessor agrees that a non-exclusive easement shall be automatically granted hereunder by Lessor to Lessee, without any notice or further writing, for the Lessor's property outside of the Leased Premises required to satisfy any such Governmental Approval with respect to landscaping without requiring additional compensation from Lessee or Lessee's licensee(s), sublessee(s) or such similar parties. Lessee shall be responsible for the installation and maintenance of any such landscaping contemplated by this Section.

(e) Lessee is responsible for repairing any damage caused during construction, or use of the Leased Premises or access, including grading the land to original conditions and restoring any damaged vegetation. If any underground utilities, including geo-thermal lines, gas lines, septic system, electric lines and water lines, are damaged during construction, Lessee is solely financially responsible for repairing any damage. Lessee shall not use any harmful chemicals for weed management during its maintenance of the Leased Premises

or any access. Lessee shall be responsible for the upkeep and maintenance of its access road and compound, including replacement of gravel or correcting drainage at its sole expense.

20. Termination. Except as otherwise provided herein, this Lease may be terminated without any penalty or further liability upon written notice as follows:

(a) By either party upon a default of any covenant or term hereof by the other party, which default is not cured within sixty (60) days of receipt of written notice of default (without however, limiting any other rights available to the parties pursuant to any other provisions hereof); provided, that if the defaulting party commences efforts to cure the default within such period, the non-defaulting party shall no longer be entitled to declare a default;

(b) Upon thirty (30) days' written notice by Lessee to Lessor, if Lessee is unable to obtain or maintain through no fault of Lessee, any license, permit or other Governmental Approval necessary for the construction and operation of the Tower Facilities or Lessee's business; or

(c) By Lessee for any reason upon sixty (60) day's advance written notice from Lessee to Lessor.

21. Sublessee's Improvements. Lessee's licensee(s) and sublessee(s) shall be entitled to modify the Tower and to erect additional improvements on the Leased Premises, including, but not limited to antennas, dishes, cabling, additional storage buildings or equipment shelters on the Leased Premises as are reasonably required for the operation and maintenance of the communications equipment to be installed on the Leased Premises by said licensee(s) and sublessee(s), together with rights of ingress and egress to the Leased Premises and the right to install utilities on the Leased Premises as if said licensee or sublessee were the Lessee under this Lease.

22. Taxes.

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

documentary, estate or profit tax, or any tax of similar nature, that is or may be imposed upon Lessor.

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

(c) For any tax amount which Lessee is responsible for under this Lease and Agreement, Lessee shall have the right to contest, in good faith, the validity or the amount thereof using such administrative, appellate or other proceedings as may be appropriate in the jurisdiction, and may defer payment of such obligations, pay same under protest, or take such other steps as permitted by law. This right shall include the ability to institute any legal, regulatory or informal action in the name of Lessor, Lessee, or both, with respect to the valuation of the Leased Premises. Lessor shall cooperate with respect to the commencement and prosecution of any such proceedings and will execute any documents required therefor. The expense of any such proceedings shall be borne by Lessee and any refunds or rebates secured as a result of Lessee's action shall belong to Lessee, to the extent the amounts were originally paid by Lessee. In the event Lessee notifies Lessor by the due date for the assessment of Lessee's intent to contest the assessment, Lessor shall not pay the assessment pending conclusion of the contest, unless required by applicable law.

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

(e) Lessee shall have the right but not obligation to pay any taxes due by Lessor hereunder if Lessor fails to timely do so, in addition to any other rights or remedies of Lessee. In the event that Lessee exercises its right under this subsection due to such Lessor default, Lessee shall have the right to deduct such tax amounts paid from any monies due to Lessor from Lessee.

(f) Any tax related notices shall be sent to Lessee in the manner set forth in Section 29, Notices. Promptly after the Commencement Date, Lessor shall provide the following address to the taxing authority for the authority's use in the event the authority needs to communicate

with Lessee. In the event that Lessee's tax address changes by notice to Lessor, Lessor shall be required to provide Lessee's new tax address to the taxing authority or authorities.

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

(h) Lessor hereby represents and warrants that Lessor's property on which the Leased Premises and Easement are located is not subject to any "Conservation Use Covenant", "Greenbelt Covenant" or any conservation use program which restricts or limits development of Lessor's property. Lessor agrees to be solely responsible for payment of any penalties, roll-back or additional taxes, special assessments or other monetary amounts now or hereafter payable to any county, city, state or other party as a result of the breach of any conservation use tax program affecting the property on which the Leased Premises and Easement are located or resulting from the change in the nature or character of the use of the property from its present use to a communications tower facility. Lessor does hereby covenant and agree to indemnify and hold Lessee forever harmless from any and all liabilities, claims, demands, actions or causes of action arising from or relating to a breach of any such covenants, whether such breach occurs because of the erection of the Tower Facilities on the Leased Premises or otherwise.

23. Destruction of Premises. If the Leased Premises or the Tower Facilities are destroyed or damaged, so as to hinder the effective use of the Tower Facilities in Lessee's judgment, Lessee may elect to terminate this Lease as of the date of the damage or destruction by so notifying the Lessor. In such event, all rights and obligations of Lessee to Lessor shall cease as of the date of the damage or destruction, and Lessee shall be entitled to the reimbursement of any Rent prepaid by the Lessee.

24. Condemnation. If a condemning authority takes all of the Leased Premises, or a portion sufficient in Lessee's determination to render the Leased Premises, in the opinion of Lessee, unsuitable for the use which Lessee was then making of the Leased Premises, this Lease shall terminate as of the date the title vests in the condemning authority. Lessee shall be entitled to file its own claims against the condemning authority for the value of its Tower Facilities, moving expenses, prepaid rent and business dislocation expenses. A sale of all or part of the Leased Premises to a purchaser with the power of eminent domain, in the face of the exercise of eminent domain power, shall be treated as taking by condemnation for the purpose of this Section.

25. Casualty. Lessor shall provide notice to Lessee of any casualty or other harm affecting the property within twenty-four (24) hours of the casualty or other harm. If any part of the Tower Facilities or the property is damaged by casualty or other harm as to render the Leased Premises unsuitable, in Lessee's sole discretion and determination, then Lessee may terminate the Lease and Agreement by providing written notice to Lessor, which termination will be effective as of the date of such casualty or other harm. Upon such termination Lessee will be entitled to collect all insurance proceeds payable to Lessee on account thereof and to be reimbursed for any prepaid Rent on a pro rata basis. Lessor agrees to permit Lessee to place temporary transmission and reception facilities on the property, but only until such time as

Lessee is able to activate a replacement transmission facility at another location. Notwithstanding the termination of this Lease and Agreement, such temporary facilities will be governed by all of the terms and conditions of this Agreement, including Rent. If Lessor or Lessee undertakes to rebuild or restore the Leased Premises and/or the Tower Facilities, as applicable, Lessor agrees to permit Lessee to place a temporary transmission and reception facilities on the property at no additional Rent until the reconstruction of the Leased Premises and/or the Tower Facilities is completed. If Lessor determines not to rebuild or restore the property, Lessor will notify Lessee of such determination within thirty (30) days after the casualty or other harm. If Lessor does not so notify Lessee and Lessee decides not to terminate under this Section, then Lessor will promptly rebuild and restore any portion of the property interfering with or required for Lessee's Intended Use of the Leased Premises to substantially the same condition as existed before the casualty or other harm. Lessor agrees that the Rent shall be abated until the property and/d or the Leased Premises are rebuilt or restored, unless Lessee places temporary transmission and reception facilities on the property.

26. Insurance. Lessee shall purchase and maintain in full force and effect, throughout the Initial Term and any Renewal Term, commercial general liability insurance with a combined single limit of at least [redacted] per occurrence and [redacted] in the aggregate, which insurance shall include Lessor as an additional insured.

27. Lessee's Environmental Covenants. As used in this Lease, the term "Hazardous Materials" shall mean any hazardous or toxic substance, material or waste which is, or becomes designated as such in the future or is regulated by any agency of the United States Government or by any local governmental authority having jurisdiction, including, without limitation, any substance, material or waste that is defined or designated as a hazardous substance pursuant to the Comprehensive Environmental Response, Compensation and Liability Act, the Resource Conservation and Recovery Act or the Clean Water Act. During the Term of this Lease, Lessee shall not cause the presence, use, storage and/or disposal of any Hazardous Material, on or under the Leased Premises by Lessee, its agents, employees, business invitees, contractors or sublessees to be in compliance with all applicable laws, rules, regulations and orders. Lessee shall not install or permit the installation of any underground storage tanks on the Leased Premises.

28. Lessor's Environmental Representation and Indemnity. Lessor represents and warrants, to the best of its knowledge, that no Hazardous Materials have been generated, stored, disposed of or are present on or under the Leased Premises prior to the Commencement Date of this Lease. Lessor shall immediately notify Lessee in writing of (i) any release or threatened release of Hazardous Materials in, on, under, from or migrating towards the Leased Premises; (ii) any non-compliance with any environmental laws related in any way to the Leased Premises; (iii) any actual or potential environmental lien; (iv) any required or proposed remediation of environmental conditions relating to the Leased Premises; and (v) any written or oral notice or other communication relating in any way to Hazardous Materials on the Leased Premises. Lessor shall indemnify, defend, protect and hold Lessee harmless from and against any and all claims, costs, fines, judgments, liability, actions, causes of action, liens and expenses; including, without limitation, penalties and reasonable attorneys fees, incurred or suffered by or asserted

against Lessee, arising out of or in any way relating to any one or more of the following: (a) the presence of any Hazardous Materials in, on, or under the Leased Premises; (b) any past, present or threatened release of Hazardous Materials in, on, under or from the Leased Premises; (c) any activity by Lessor in connection with any actual, proposed or threatened use, treatment, storage, existence, disposition or other release, production, manufacturing, management, abatement, removal, handling, transfer or transportation to or from the Leased Premises of any Hazardous Materials at any time located in, under or on the Leased Premises; (d) any testing and/or remediation costs in connection with any Hazardous Materials alleged to be located in, under, on or above the Leased Premises; (e) any past or present non-compliance with or violations of any environmental laws in connection with the Leased Premises or operations thereon, including but not limited to, any failure by Lessor to comply with any order of any governmental authority in connection with any environmental laws; and (f) the imposition, recording or filing or the threatened imposition, recording or filing of any environmental lien encumbering the Leased Premises. The foregoing representations and indemnities shall survive any termination of this Lease.

29. Notices. All notices, requests, demands and other communications hereunder shall be in writing and shall be deemed given if sent by a nationally recognized courier, or certified mail, return receipt requested, to the following address:

If to Lessor, to:

Matthew and Ashley Ratliff
P.O. Box 1506
Williamsburg, KY 40769

If to Lessee, to:

Diamond Towers V LLC
820 Morris Turnpike, Suite 104
Short Hills, New Jersey 07078
Attention: Legal Department

30. Title and Quiet Enjoyment. Lessor warrants and represents that (i) it has the full right, power, and authority to execute this Lease; (ii) it has good and marketable fee simple title to the Leased Premises and the Easement; and (iii) the Leased Premises constitutes a legal lot that may be leased without the need for any subdivision or platting approval. Lessor covenants that Lessee shall have the quiet enjoyment of the Leased Premises during the term of the Lease. Lessor shall indemnify Lessee from and against any loss, cost, expense or damage, including attorneys fees associated with a breach of the foregoing covenant of quiet enjoyment. This Lease shall be an estate for years and not a usufruct. Lessor shall not use, nor shall Lessor permit its lessees, licensees, invitees, or agents to use any portion of any property owned or controlled by Lessor in any way which interferes with operations of Lessee. Such interference shall be deemed a material breach by Lessor, and Lessee shall have the right, in addition to any other rights that it may have in law or equity, to enjoin such interference or to terminate this Lease.

31. Subordination and Non-Disturbance. This Lease shall be subject to and subordinate to any mortgage or deed to secure debt (collectively referred to as a "Mortgage") made by Lessor which may now or hereafter encumber the Leased Premises, provided that no such subordination shall be effective unless the holder of every such Mortgage shall in a separate agreement with Lessee agree that in the event of a foreclosure, or conveyance in lieu of foreclosure of Lessor's interest in the Leased Premises, such holder shall recognize and confirm the validity and existence of this Lease and that Lessee shall have the right to continue its use and occupancy of the Leased Premises in accordance with the provisions of this Lease as long as Lessee is not in default of this Lease beyond applicable notice and cure periods. Lessee shall execute in timely fashion such instruments as may reasonably be requested to evidence the provisions of this Section. In the event the Leased Premises are encumbered by a Mortgage on the Commencement Date, Lessor, no later than ten (10) days after the Option has been exercised, shall obtain and furnish Lessee with a non-disturbance agreement in recordable form from the holder of each Mortgage.

32. Assignments and Subleases. Lessee may, upon notice to Lessor, mortgage or grant a security interest in this Lease and the Tower Facilities, and may assign this Lease and the Tower Facilities to any such mortgagees or holders of security interests, including their successors and assigns (hereinafter, collectively referred to as "Secured Parties"). In such event, Lessor shall execute such consent to leasehold financing as may reasonably be required by Secured Parties. Lessor agrees to notify Lessee and Lessee's Secured Parties simultaneously of any default by Lessee, and to give Secured Parties the same right to cure any default as Lessee except that the cure period for any Secured Party shall not be less than thirty (30) days after the receipt of the default notice. Lessee shall have the right, without Lessor's consent, to sublease or assign its rights under this Lease, but any such sublease or assignment shall be subject to all terms and conditions of this Lease. Upon assignment of all of its rights pursuant to this Lease, and the execution of a written assumption of all of the terms and conditions of the Lease by the assignee, Lessee shall be released from any further liability under this Lease. If a termination, disaffirmation or rejection of the Lease, pursuant to any laws (including any bankruptcy or insolvency laws), by Lessee shall occur, or if Lessor shall terminate this Lease for any reason, Lessor will give the Secured Parties prompt notice thereof and Lessor will give the Secured Parties the right to enter upon the Leased Premises during a thirty (30) day period commencing upon the Secured Party's receipt of such notice for the purpose of removing any Tower Facilities. Lessor acknowledges that the Secured Parties shall be third-party beneficiaries of this Lease. In the event that Lessee grants a security interest in the Lease to Secured Parties and ultimately assigns this Lease to Secured Parties or other entities that, to the best of Lessee's knowledge after due inquiry, are more than 50% owned by foreign nationals, Lessee shall obtain Lessor's written approval prior to such assignment.

33. Successors and Assigns. This Lease shall run with the Leased Premises described on Exhibit "A" and shall be binding upon and inure to the benefit of the parties, their respective heirs, successors, personal representatives and assigns.

34. Waiver of Lessor's Lien. Lessor hereby waives any and all lien rights it may have, statutory or otherwise, in and to the Tower Facilities or any portion thereof, regardless of whether or not same is deemed real or personal property under applicable laws. Lessor consents

to Lessee's right to remove all or any portion of the Tower Facilities from time to time in Lessee's sole discretion and without Lessor's consent.

35. Waiver of Incidental and Consequential Damages. Lessor will not assert any claim whatsoever against Lessee for loss of anticipatory profits or any other indirect, special, incidental or consequential damages incurred by Lessor as a result of the construction, maintenance, operation or use of the Leased Premises or the Easement by Lessee.

36. Lessee's Exclusivity. Lessor agrees not to lease any of Lessor's property within a radius of ten (10) miles from the Leased Premises for construction of a tower or for use as a communications facility or for the operation of an antenna site leasing business which competes directly or indirectly with Lessee.

37. Removal of Personal Property. On or after the Termination Date, Lessee shall remove the Tower and all other personal property and improvements which Lessee has installed or otherwise located on the Leased Premises.

38. Lessee's Right of First Refusal. If, during the terms of this Agreement, Lessor receives and desires to accept an offer to purchase and/or assign any of the following interests in all or a portion of the Leased Premises and/or the remainder of Lessor's property in which the Leased Premises is located ("Lessor's Property"): (i) fee title, (ii) a perpetual or other easement, (iii) a lease, (iv) any or all portions of Lessor's interest in this Agreement including but not limited to the Rent or revenue derived herefrom, whether separately or as part of the sale, transfer, grant, assignment, lease or encumbrance of Lessor's Property or other interest in the Agreement, or (v) an option to acquire any of the foregoing, Lessor shall provide written notice to Lessee of said offer to purchase ("Lessor's Notice"). Lessor's Notice shall include the prospective buyer's name, the purchase price being offered, the other terms and conditions of the offer, a due diligence period, the proposed closing date and, if a portion of Lessor's Property is to be sold, a description of said portion. Lessee shall have a right of first refusal to purchase, at its election and on the terms and conditions as in Lessor's Notice (x) a fee simple interest in Lessor's Property (or such lesser portion thereof as is described in Lessor's Notice), (y) a fee simple interest in the Leased Premises or (z) a perpetual easement for the Leased Premises, all on the same terms and conditions as in said offer by Lessor as modified by this Section. If the Lessor's Notice is for more than the Leased Premises and Lessee elects to purchase in fee or acquire a perpetual easement in only the Leased Premises, the terms and condition of said acquisition, including but not limited to the purchase price, shall be the same terms and conditions as in Lessor's Notice but the purchase price shall be pro-rated on an acreage basis. If the Lessor's Notice shall provide for a due diligence period of less than sixty (60) days, then the due diligence period shall be extended to be sixty (60) days from Lessee's exercise of its right of first refusal and closing shall occur no earlier than fifteen (15) days thereafter, or as soon thereafter as practicable. If Lessee does not exercise its right of first refusal by written notice to Lessor given within thirty (30) days after receipt by Lessee of Lessor's Notice, Lessor may sell the property described in the Lessor's Notice to such third person or entity in accordance with the terms and conditions of the offer. If Lessee fails or declines to exercise its right of first refusal, then this Agreement shall continue in full force and effect and Lessee's right of first refusal shall survive any such sale and conveyance and shall remain effective with respect to any subsequent offers to purchase the Leased Premises and/or Lessor's Property. If, for any

reason, the sale to the outside purchaser does not close, Lessee's right of first refusal, as provided for in this Section, shall remain applicable to any subsequent purchase or easement offer received by Lessor.

39. Estoppels. Either party may request, in writing, that the other party certify information to a prospective mortgagee or purchaser. Such certification shall be transmitted within ten (10) days after receipt of written request and may be relied upon by the party who requested it, and the contents of the certificate shall be binding upon the party executing it. The certificate may include (i) the validity, force and effect of this Lease; (ii) the extent to which this Lease has been supplemented or amended; (iii) the existence of any default; (iv) the existence of any offsets, counter-claims or defenses on the part of the other party; (v) the commencement and expiration dates of the term, (vi) the amount of any prepaid rent; and (vii) any other matter as may reasonably be requested.

40. Memorandum/Short Form. Contemporaneously with the execution of this Agreement, Lessor and Lessee shall execute a recordable Memorandum of Lease ("Memorandum") substantially in the form attached hereto as Exhibit "D". The Memorandum shall set forth a description of the Leased Premises, the Easement, the name and addresses of Lessor and Lessee, the duration of the Initial Term and the Renewal Term(s) of this Lease, and any other provision that either party may request, except for the rental provisions. Lessee may record this Memorandum at any time during the Term, in its absolute discretion.

41. Miscellaneous.

(a) The substantially prevailing party in any litigation arising hereunder shall be entitled to its reasonable attorney's fees and court costs, including appeals, if any.

(b) This Agreement constitutes the entire agreement and understanding of Lessor and Lessee with respect to the subject matter of this Agreement, and supersedes all offers, negotiations and other agreements. There are no representations or understandings of any kind not set forth herein. Any amendments to said Agreement must be in writing and executed by Lessor and Lessee.

(c) If either Lessor or Lessee is represented by a broker in this transaction, that party shall be fully responsible for any fees due such broker and shall hold the other party harmless from any claims for commission by such broker.

(d) Lessor agrees to cooperate with Lessee in executing any documents necessary to protect Lessee's rights under this Agreement or Lessee's use of the Leased Premises, and to take any further action which Lessee may reasonably require as to effect the intent of this Agreement.

(e) This Agreement shall be construed in accordance with the laws of the state in which the Leased Premises is situated.

(f) If any term of this Agreement is found to be void or invalid, such invalidity shall not affect the remaining terms of this Agreement, which shall continue in full force and effect.

(g) Whenever under this Agreement the consent or approval of Lessor is required or a determination must be made by Lessor, no such consent or approval shall be unreasonably withheld, conditioned, or delayed, and all such determinations shall be made on a reasonable basis and in a reasonable manner.

(h) This Agreement may be executed in two or more counterparts, all of which shall be considered one and the same agreement and shall become effective when one or more counterparts have been signed by each of the parties, it being understood that all parties need not sign the same counterpart.

(i) Lessor agrees that the terms of this Agreement shall be strictly confidential and that Lessor shall not disclose any of the terms hereof to any third party, except with Lessee's prior written consent. Notwithstanding the foregoing, Lessor is permitted to disclose the terms of this Agreement to its attorneys, financial consultants, accountants and lenders, or as required to by law.

(j) Upon request, Lessor will cause to be promptly and duly taken, executed, acknowledged and delivered all such further acts, documents and assurances as Lessee may request from time to time in order to effectuate, carry out, and perform all of the terms, provisions, and conditions of this Agreement and all transactions and permitted use contemplated by this Agreement.

[SIGNATURES ON FOLLOWING PAGE]

IN WITNESS WHEREOF, this Agreement shall be effective on the date of execution of the last signatory below ("Effective Date").

LESSOR:

Matthew Ratliff

By: _____
Name: Matthew Ratliff
Date: 8.31.20

Ashley Ratliff

By: _____
Name: Ashley Ratliff
Date: 8/31/20

LESSEE:

Diamond Towers V LLC, a
Delaware limited liability company

By: _____
Name: Michael G. Brett
Title: COO
Date: 9/9/20

EXHIBIT "A"

Description of Real Property

A 80 ft. x 80 ft. parcel located within the following parcel:

*Note: to be replaced by As-Built Survey

EXHIBIT "A-1"

Site Sketch (to be replaced by survey)

*Note: to be replaced by As-Built Survey

EXHIBIT "B"

Easement
Legal Description

*Note: to be replaced by As-Built Survey

EXHIBIT "C"

Rent Schedule

[redacted] per month for the first year of the Initial Term. Thereafter, the monthly Rent will be increased by [redacted] each anniversary of the Rent Commencement Date.

EXHIBIT J
NOTIFICATION LISTING

Smith Hollow – Notice List

RATLIFF MATTHEW & ASHLEY
P O BOX 1506
WILLIAMSBURG, KY 40769

SNYDER DALE E & CATHY J
9305 W HWY 92
WILLIAMSBURG, KY 40769

LAWSON MARK
9305 W HWY 92
WILLIAMSBURG, KY 40769

DAVIS KATELYN E & CLINT D
153 JELLICO CRK RD
WILLIAMSBURG, KY 40769

LAY LANSFORD H JR & PATRICIA
185 JELLICO CRK RD
WILLIAMSBURG, KY 40769

MEADORS KENNETH W
157 RYANS CRK RD
WILLIAMSBURG, KY 40769

STEPHENS JESS
390 RYANS CRK RD
WILLIAMSBURG, KY 40769

MEADORS KENNETH W
61 RYANS CRK RD
WILLIAMSBURG, KY 40769

ROWE PAUL & DELORES
9589 W HWY 92
WILLIAMSBURG, KY 40769

PETREY DARRELL & PATRICIA
9758 W HWY 92
WILLIAMSBURG, KY 40769

HATLAND CONNIE
1726 N 4101ST RD
LELAND, IL 60531

HAMLIN MIKE
C/O RUTH HAMLIN
533 BECKS CRK RD
WILLIAMSBURG, KY 40769

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: Smith Hollow

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company, d/b/a AT&T Mobility and Diamond Towers V LLC, a Delaware Limited Liability Company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at Kentucky Highway 92, Williamsburg, KY 40769 (36° 40' 30.13" North latitude, 84° 16' 27.91" West longitude). The proposed facility will include a 255-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 265-feet, plus related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00372 in any correspondence sent in connection with this matter.

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

Sincerely,
David A. Pike
Attorney for Applicant

enclosure

Driving Directions to Proposed Tower Site

1. Beginning at the Whitley County Clerk's Office, located at 200 Main Street #2, Williamsburg, Kentucky 40769, head southwest on Main Street (toward N. 3rd Street) and travel approximately 0.2 miles.
2. Continue straight onto State Hwy 296 / Main Street and travel approximately 1.7 miles.
3. Turn right onto KY-92 W and travel approximately 7.7 miles.
4. The site access is on the left off of KY-92.
5. The site coordinates are:
    a. North 36 deg 40 min 30.13 sec
    b. West 84 deg 16 min 27.91 sec

Prepared by:
Chris Shouse
Pike Legal Group PLLC
1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293

(A1) PARCEL NO. 045-00-00-029.02
RATLIFF MATTHEW & ASHLEY
P O BOX 1506
WILLIAMSBURG, KY 40769

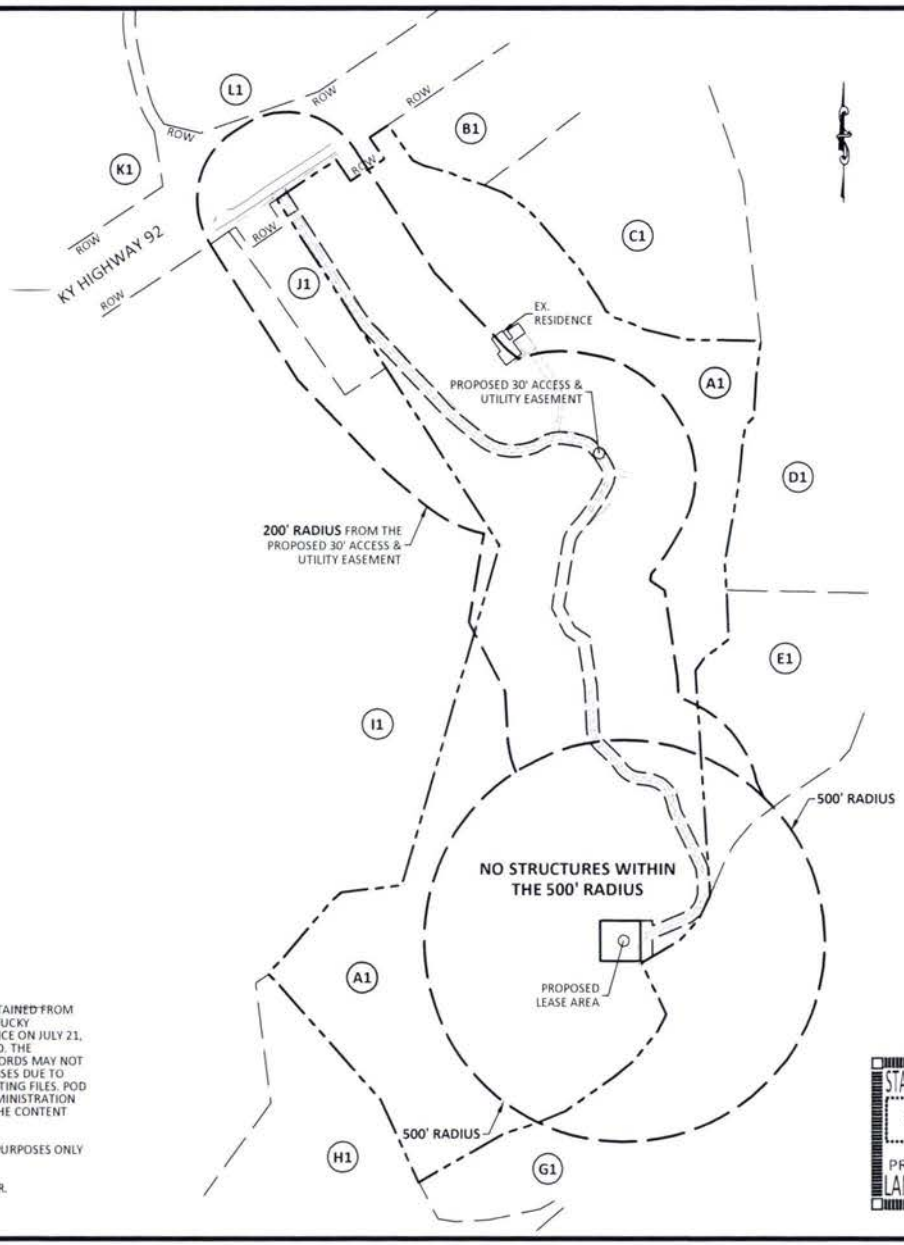
(B1) PARCEL NO. 045-00-00-019.00
SNYDER DALE E & CATHY J
9305 W HWY 92
WILLIAMSBURG, KY 40769

(C1) PARCEL NO. 045-00-00-022.00
LAWSON MARK
9305 W HWY 92
WILLIAMSBURG, KY 40769
PARCEL NO. 045-00-00-022.00D1
LAWSON MARK
9305 W HWY 92
WILLIAMSBURG, KY 40769

(D1) PARCEL NO. 045-00-00-020.00
DAVIS KATELYN E & CLINT D
153 JELLICO CRK RD
WILLIAMSBURG, KY 40769

(E1) PARCEL NO. 045-00-00-027.00
LAY LANSFORD H JR & PATRICIA
185 JELLICO CRK RD
WILLIAMSBURG, KY 40769

(G1) PARCEL NO. 046-00-00-011.00
MEADORS KENNETH W
157 RYANS CRK RD
WILLIAMSBURG, KY 40769
PARCEL NO. 046-00-00-011.00H1
STEPHENS JESS
390 RYANS CRK RD
WILLIAMSBURG, KY 40769
PARCEL NO. 046-00-00-011.00M1
MEADORS KENNETH W
61 RYANS CRK RD
WILLIAMSBURG, KY 40769



(H1) PARCEL NO. 046-00-00-001.00
ROWE PAUL & DELORES
9589 W HWY 92
WILLIAMSBURG, KY 40769

(I1) PARCEL NO. 029-00-00-015.00
ROWE PAUL & DELORES
9589 W HWY 92
WILLIAMSBURG, KY 40769
PARCEL NO. 029-00-00-015.00M1
PETREY DARRELL & PATRICIA
9758 W HWY 92
WILLIAMSBURG, KY 40769

(J1) PARCEL NO. 045-00-00-028.00
ROWE PAUL & DELORES
9589 W HWY 92
WILLIAMSBURG, KY 40769

(K1) PARCEL NO. 045-00-00-030.00
ROWE PAUL & DELORES
9589 W HWY 92
WILLIAMSBURG, KY 40769

(L1) PARCEL NO. 045-00-00-029.00
HATLAND CONNIE
1726 N 4101ST RD
LELAND, IL 60531
PARCEL NO. 045-00-00-029.00M1
HAMLIN MIKE
C/O RUTH HAMLIN
533 BECKS CRK RD
WILLIAMSBURG, KY 40769

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

0' 300' 600'
1 INCH = 300 FEET

GENERAL NOTE:

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE WHITLEY COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON JULY 21, 2020 AND RE-VERIFIED ON NOVEMBER 3, 2020. 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.

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

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 11/12/2020
MARK PATTERSON, PLS #3136 DATE

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

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

REVISIONS

REV	DATE	DESCRIPTION
0	11.3.20	ISSUED AS FINAL
1	11.11.20	OLC COMMENTS

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBERS:
045-00-00-029.02

PROPERTY OWNER:
MATTHEW RATLIFF &
ASHLEY ALDER RATLIFF
P O BOX 1506
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

SITE NUMBER:
KY036

POD NUMBER:	20-71225
DRAWN BY:	DAP
CHECKED BY:	MEP
SURVEY DATE:	7.21.20
PLAT DATE:	11.3.20

SHEET TITLE:
500' RADIUS AND ABUTTERS MAP

SHEET NUMBER: (1 page)
B-2

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

Pat White Jr.
County Judge Executive
P.O. Box 237
200 Main Street
Williamsburg, KY 40769

RE: Notice of Proposal to Construct Wireless Communications Facility
Kentucky Public Service Commission Docket No. 2020-00372
Site Name: Smith Hollow

Dear Judge/Executive:

New Cingular Wireless PCS, LLC, a Delaware Limited Liability Company, d/b/a AT&T Mobility and Diamond Towers V LLC, a Delaware Limited Liability Company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at Kentucky Highway 92, Williamsburg, KY 40769 (36° 40' 30.13" North latitude, 84° 16' 27.91" West longitude). The proposed facility will include a 255-foot tall tower, with an approximately 10-foot tall lightning arrestor attached at the top, for a total height of 265-feet, plus related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00372 in any correspondence sent in connection with this matter.

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

Sincerely,
David A. Pike
Attorney for Applicant

enclosures

Driving Directions to Proposed Tower Site

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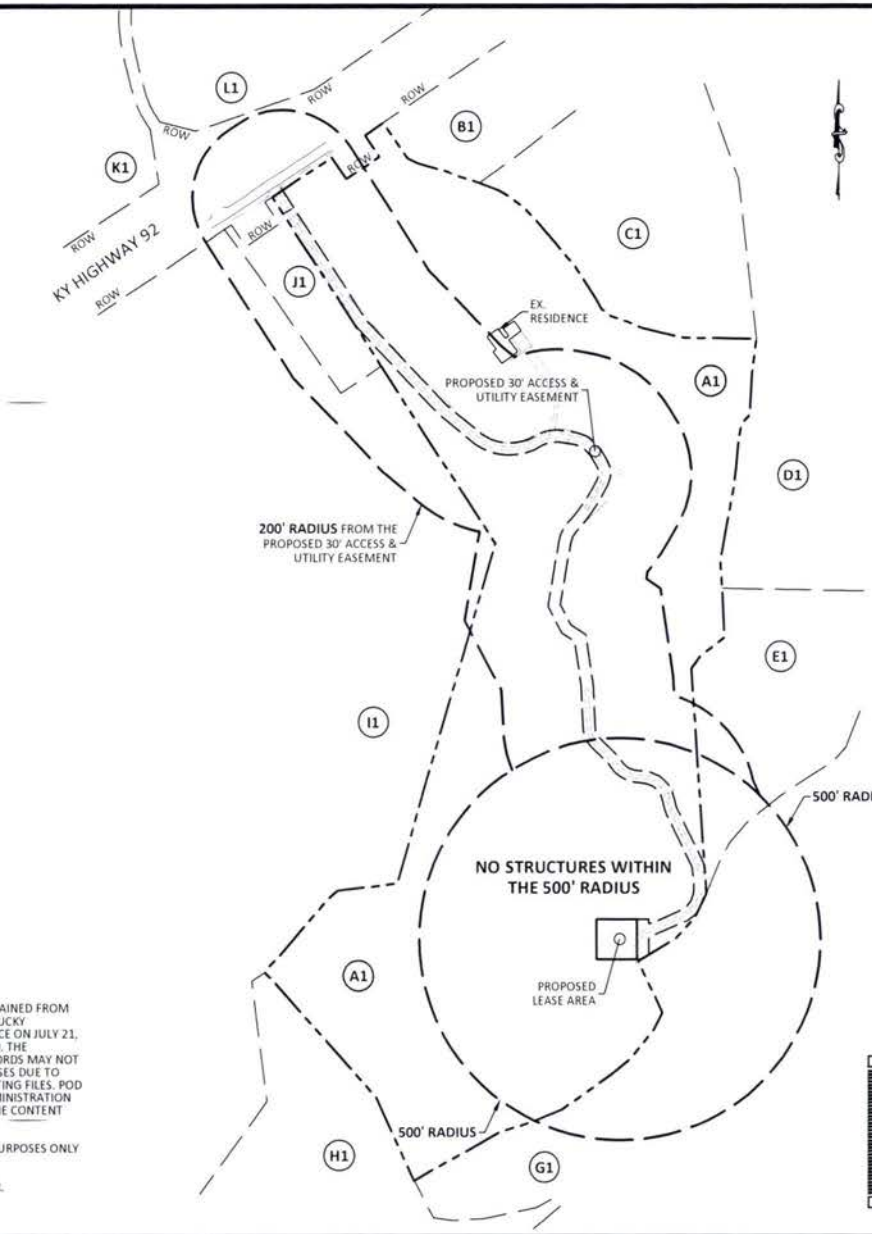
2. Continue straight onto State Hwy 296 / Main Street and travel approximately 1.7 miles.
3. Turn right onto KY-92 W and travel approximately 7.7 miles.
4. The site access is on the left off of KY-92.
5. The site coordinates are:
    a. North 36 deg 40 min 30.13 sec
    b. West 84 deg 16 min 27.91 sec

Prepared by:
Chris Shouse
Pike Legal Group PLLC
1578 Highway 44 East, Suite 6
P.O. Box 369
Shepherdsville, KY 40165-3069
Telephone: 502-955-4400 or 800-516-4293



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B1 PARCEL NO. 045-00-00-019.00
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C1 PARCEL NO. 045-00-00-022.00
LAWSON MARK
9305 W HWY 92
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PARCEL NO. 045-00-00-022.00D1
LAWSON MARK
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WILLIAMSBURG, KY 40769

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Mark Patterson 11/12/2020
MARK PATTERSON, PLS #3136 DATE

PREPARED BY:
POD
DEVELOPMENT
11490 BLUEGRASS PARKWAY
LOUISVILLE, KY 40299
502.437.5252

PREPARED FOR:
Diamond Communications
820 MORRIS TURNPIKE - SUITE 104
SHORT HILLS, NJ 07078
(973) 544-6834

REVISIONS

REV.	DATE	DESCRIPTION
0	11.3.20	ISSUED AS FINAL
1	11.11.20	OLC COMMENTS

SITE INFORMATION:
SMITH HOLLOW
KENTUCKY HIGHWAY 92
WILLIAMSBURG, KY 40769
WHITLEY COUNTY

TAX PARCEL NUMBERS:
045-00-00-029.02

PROPERTY OWNER:
MATTHEW RATLIFF &
ASHLEY ALDER RATLIFF
P O BOX 1506
WILLIAMSBURG, KY 40769

SOURCE OF TITLE:
DEED BOOK 470, PAGE 658

SITE NUMBER:
KY036

POD NUMBER:	20-71225
DRAWN BY:	DAP
CHECKED BY:	MEP
SURVEY DATE:	7.21.20
PLAT DATE:	11.3.20

SHEET TITLE:
500' RADIUS AND ABUTTERS MAP

SHEET NUMBER: (1 page)
B-2

EXHIBIT M
COPY OF POSTED NOTICES
AND NEWSPAPER NOTICE ADVERTISEMENT

SITE NAME: SMITH HOLLOW
NOTICE SIGNS

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

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Diamond Communications V LLC, a Delaware limited liability company propose to construct a telecommunications **tower** on this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00372 in your correspondence.

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Diamond Communications V LLC, a Delaware limited liability company propose to construct a telecommunications **tower** near this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165; telephone: (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00372 in your correspondence.

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

VIA TELEPHONE: 606-528-9767

Williamsburg News Journal
PO Box 1524
Corbin, KY 40701

RE: Legal Notice Advertisement
Site Name: Smith Hollow

Dear Williamsburg News Journal:

Please publish the following legal notice advertisement in the next edition of *The Williamsburg News Journal*:

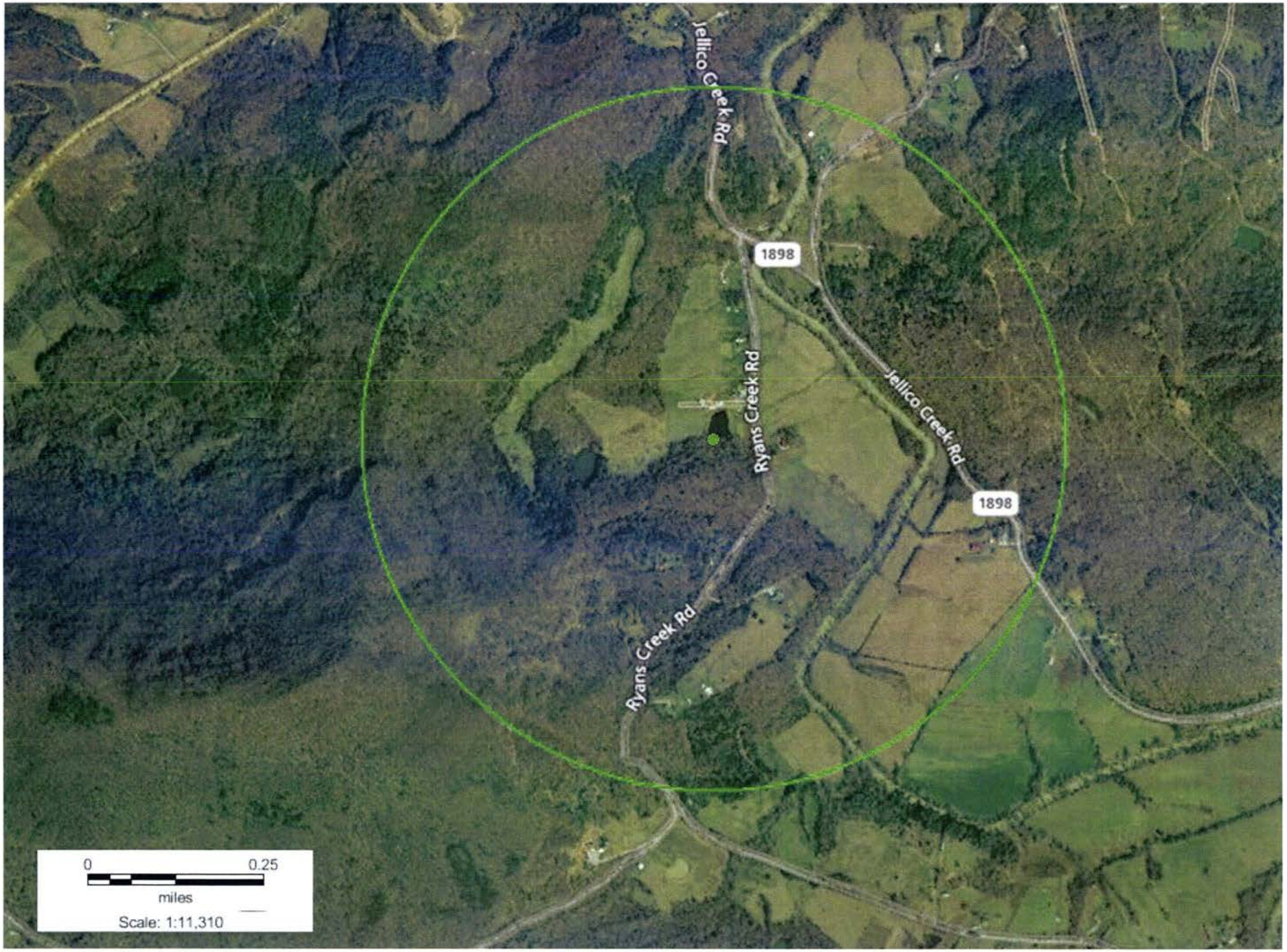
NOTICE

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility and Diamond Towers V LLC, a Delaware Limited Liability Company have filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located on Kentucky Highway 92, Williamsburg, KY 40769 (36° 40' 30.13" North latitude, 84° 16' 27.91" West longitude). You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2020-00372 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



Lat: 36.670217
Lon: -84.268319
Radius: .5 miles

Smith Hollow Search Area