**COMMONWEALTH OF KENTUCKY**

**BEFORE THE PUBLIC SERVICE COMMISSION**

**In the Matter of:**

**APPLICATION OF CUMBERLAND CELLULAR PARTNERSHIP FOR ISSUANCE OF A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY TO CONSTRUCT A CELL SITE (ALBANY CAPACITY 2) IN RURAL SERVICE AREA #5 (CLINTON) OF THE COMMONWEALTH OF KENTUCKY**

**CASE NO. 2019-00042**

**APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY (ALBANY CAPACITY 2)**

Cumberland Cellular Partnership ("Cumberland Cellular"), through counsel, pursuant to KRS 278.020 and 278.040, hereby submits this application for a certificate of public convenience and necessity to construct a cell site to be known as the Albany Capacity 2 cell site in and for rural service area ("RSA") #5 of the Commonwealth of Kentucky, namely the counties of Barren, Monroe, Metcalfe, Adair, Cumberland, Russell, Clinton, Wayne, McCreary and Hart, Kentucky.

1. Pursuant to the FCC Order, Docket No. 08-165, dated November 18, 2009, ¶ 32, pp. 11 & 12, the Commission has 150 days to process this application for a certificate of public convenience and necessity to construct a cell tower facility. If the Commission fails to act upon this application within 150 days, then Cumberland Cellular may seek redress with the U.S. District Court for the Eastern District of Kentucky.[1]

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[1] In the Matter of: Petition for Declaratory Ruling to Clarify Provisions of Section 332(c)(7)(B) to Ensure Timely Siting Review and to Preempt Under Section 253 State and Local Ordinances that Classify all Wireless Siting Proposals as Requiring a Variance, FCC Order, Docket No. 08-165, November 18, 2009, pp 11 and 12. ("Specifically, we find that a "reasonable period of time" is, presumptively 90 days to process personal wireless service facility siting applications requesting collocations, and, also presumptively, 150 days to process all other applications. (Relevant pages attached as Exhibit "L"). Accordingly, if State or local governments do not act upon applications within those timeframes, then a "failure to act" has occurred and personal wireless service providers may seek redress in a court of competent jurisdiction within 30 days, as provided in Section 332(c)(7)(B)(v).") See also Order Denying Motion for Reconsideration, issued August 4, 2010.

2. As required by 807 KAR 5:001 § 14 and 807 KAR 5:063, Cumberland Cellular states that it is a Kentucky limited liability partnership whose full name and post office address are: Cumberland Cellular Partnership, 2902 Ring Road, Elizabethtown, Kentucky, 42701. An email address for Cumberland Cellular Partnership is dougu@bluegrasscellular.com. A copy of the Certificate of Assumed Name as a General Partnership for Cumberland Cellular Partnership was previously filed in Kentucky PSC Case No. 2014-00026 (Application of Cumberland Cellular Partnership for issuance of a certificate of public convenience and necessity to construct a cell site (Albany Capacity 1) in rural service area #5 (Clinton) of the Commonwealth of Kentucky). This is the only document on file with the Kentucky Secretary of State that identifies all owners of Cumberland Cellular Partnership.

3. Pursuant to 807 KAR 5:063 § 1(1)(b), a copy of the applicant's applications to and approvals from the Federal Aviation Administration and the Kentucky Airport Zoning Commission are Exhibit "A."

4. Pursuant to 807 KAR 5:063, § 1(1)(c), attached as Exhibit "B" is a copy of the application to, and authorization from, the Federal Communications Commission.

5. Pursuant to 807 KAR 5:063 § 1(1)(d), applicant is attaching as Exhibit "C" a geotechnical investigation report, signed and sealed by a professional engineer registered in Kentucky, that includes boring logs, foundation design recommendations, and a finding as to the susceptibility of the area surrounding the proposed site to flood hazard.

6. Pursuant to 807 KAR 5:063 § 1(1)(e), clear directions from the county seat to the proposed site, including highway numbers and street names, if applicable, with the telephone number of the person who prepared the directions are Exhibit "D".

7. Pursuant to 807 KAR 5:063 § 1(1)(f), a copy of the lease for the property on which the tower is proposed to be located, is Exhibit "E".

8. Pursuant to 807 KAR 5:063 § 1(1)(g), experienced personnel will manage and operate the Albany Capacity 2 cell site. The President of Bluegrass Cellular Inc., Mr. Ron Smith, is ultimately responsible for all construction and operations of the cellular system of Cumberland Cellular, of which system the Albany Capacity 2 cell site will be a part. Bluegrass Cellular Inc. provides management services to Cumberland Cellular under a management contract, just as it does with three (3) other wireless carriers in the Commonwealth. And, Bluegrass Cellular Inc. has been providing these management services to these other wireless carriers for over 20 years. This extensive management experience with Bluegrass Cellular demonstrates that Bluegrass Cellular Inc.'s management and technical ability to supervise the operations of a wireless carrier.

9. Pursuant to 807 KAR 5:063 § 1(1)(g), World Tower Company, Inc. is responsible for the design specifications of the proposed tower (identified in Exhibit "C").

10. Pursuant to 807 KAR 5:063 § 1(1)(h), a site development plan and survey, signed and sealed by a professional engineer registered in Kentucky, that shows the proposed location of the tower and all easements and existing structures within 500 feet of the proposed site on the property on which the tower will be located, and all easements and existing structures within 200 feet of the access drive, including the intersection with the public street system, is Exhibit "C."

11. Pursuant to 807 KAR 5:063 §1(1)(i), a vertical profile sketch of the tower, signed and sealed by a professional engineer registered in Kentucky, indicating the height of the tower and the placement of all antennas is Exhibit "C."

12. Pursuant to 807 KAR 5:063 §1(1)(j), the tower and foundation design plans and a description of the standard according to which the tower was designed, signed and sealed by a professional engineer registered in Kentucky, is Exhibit "C."

13. Pursuant to 807 KAR 5:063 § 1(1)(k), a map, drawn to a scale no less than one (1) inch equals 200 feet, that identifies every structure and every owner of real estate within 500 feet of the proposed tower, is Exhibit "F."

14. Pursuant to 807 KAR 5:063 § 1(1)(l), applicant's legal counsel hereby affirms that every person who owns property within 500 feet of the proposed tower has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of his or her right to request intervention.

15. Pursuant to 807 KAR 5:063 §1(1)(m), a list of the property owners who received the notice together with copies of the certified letters sent to listed property owners, is Exhibit "G."

16. Pursuant to 807 KAR 5:063 § 1(1)(n), applicant's legal counsel hereby affirms that the Office of the Clinton County Judge Executive has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of its right to request intervention.

17. Pursuant to 807 KAR 5:063 § 1(1)(o), a copy of the notice sent to the Clinton County Judge Executive is Exhibit "H."

18. Pursuant to 807 KAR 5:063 § 1(1)(p), applicant's legal counsel hereby affirms that (i) two written notices meeting subsection two (2) of this section have been posted, one in a visible location on the proposed site and one on the nearest public road; and (ii) the notices shall remain posted for at least two weeks after the application has been filed.

19. Pursuant to 807 KAR 5:063 § 1(2)(a), applicant's legal counsel affirms that:

> (a) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "***Cumberland Cellular Partnership proposes to construct a telecommunications tower on this site. If you have questions, please contact***

***Cumberland Cellular Partnership, 2902 Ring Road, Elizabethtown, Kentucky, 42701 or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to Case. No. 2019-0042 in your correspondence"*** has been posted and shall remain in a visible location on the proposed site until final disposition of the application; and

(b) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "***Cumberland Cellular Partnership proposes to construct a telecommunications tower near this site. If you have questions, please contact Cumberland Cellular Partnership, 2902 Ring Road, Elizabethtown, Kentucky, 42701 or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to Case No. 2019-00042 in your correspondence"*** has been posted on the public road nearest the site.

A copy of each sign is attached as Exhibit "I."

20. Pursuant to 807 KAR 5:063 § 1(1)(q), Applicant affirms that notice of the location of the proposed construction has been published in a newspaper of general circulation in Clinton County. A copy of the affidavit of publication and tears as proof of publication are attached as Exhibit "J."

21. Pursuant to 807 KAR 5:063 § 1(1)(r), the cell site, which has been selected, is in a relatively undeveloped rural residential area in eastern Albany, Kentucky.

22. Pursuant to 807 KAR 5:063 § 1(1)(s), Cumberland Cellular has considered the likely effects of the installation on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate service to the area can be provided, and that there is no reasonably available opportunity to co-locate. Cumberland Cellular has attempted to co-locate on towers designed to host multiple wireless service providers' facilities or existing structures, such as a telecommunications tower, or another suitable structure capable of supporting the utility's facilities.

23. Pursuant to 807 KAR 5:063 § 1(1)(t), a map of the area in which the tower is proposed to be located, that is drawn to scale and that clearly depicts the search area in which a site should, pursuant to radio frequency requirements, be located is Exhibit "K."

24. Pursuant to 807 KAR 5:001 § 15(b)(2)(d) and KRS 100.987(2)(a), a grid map, that is drawn to scale, that shows the location of all existing cellular antenna towers and that indicates the general position of proposed construction sites for new cellular antenna towers is Exhibit "L."

25. Pursuant to 807 KAR 5:063 § 2 and KRS 278.665(2), applicant's legal counsel hereby affirms that every person who, according to the records of the property valuation administrator, owns property contiguous to the property where the proposed cellular antenna tower will be located has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of his or her right to request intervention.

26. No reasonably available telecommunications tower, or other suitable structure capable of supporting the cellular facilities of Cumberland Cellular and which would provide adequate service to the area exists.

27. Correspondence and communication with regard to this application should be addressed to:

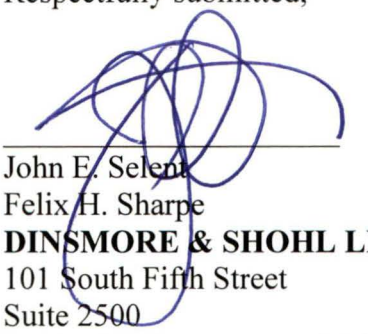
John E. Selent
Felix H. Sharpe
**DINSMORE & SHOHL LLP**
101 South Fifth Street
Suite 2500
Louisville, Kentucky 40202
(502) 540-2300
***john.selent@dinsmore.com***
***felix.sharpe@dinsmore.com***

WHEREFORE, Cumberland Cellular Partnership requests the Commission to enter an order:

1. Granting a certificate of public convenience and necessity to construct the Albany Capacity 2 cell site; and

2. Granting all other relief as appropriate.

Respectfully submitted,



John E. Selent
Felix H. Sharpe
**DINSMORE & SHOHL LLP**
101 South Fifth Street
Suite 2500
Louisville, Kentucky 40202
(502) 540-2300
***john.selent@dinsmore.com***
***felix.sharpe@dinsmore.com***

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

Aeronautical Study No.
2019-ASO-1284-OE

Issued Date: 05/22/2019

Doug Updegraff
Bluegrass Cellular, Inc.
2902 Ring Road
Elizabethtown, KY 42701

**** 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 Albany Capacity-2 |
| Location: | Albany, KY |
| Latitude: | 36-41-34.37N NAD 83 |
| Longitude: | 85-06-52.85W |
| Heights: | 1006 feet site elevation (SE) |
| | 250 feet above ground level (AGL) |
| | 1256 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 11/22/2020 unless:

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

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

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

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

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

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

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

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

If we can be of further assistance, please contact our office at (718) 553-2611, or angelique.eersteling@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2019-ASO-1284-OE.

**Signature Control No: 394862657-406439869** ( DNE )
Angelique Eersteling
Technician

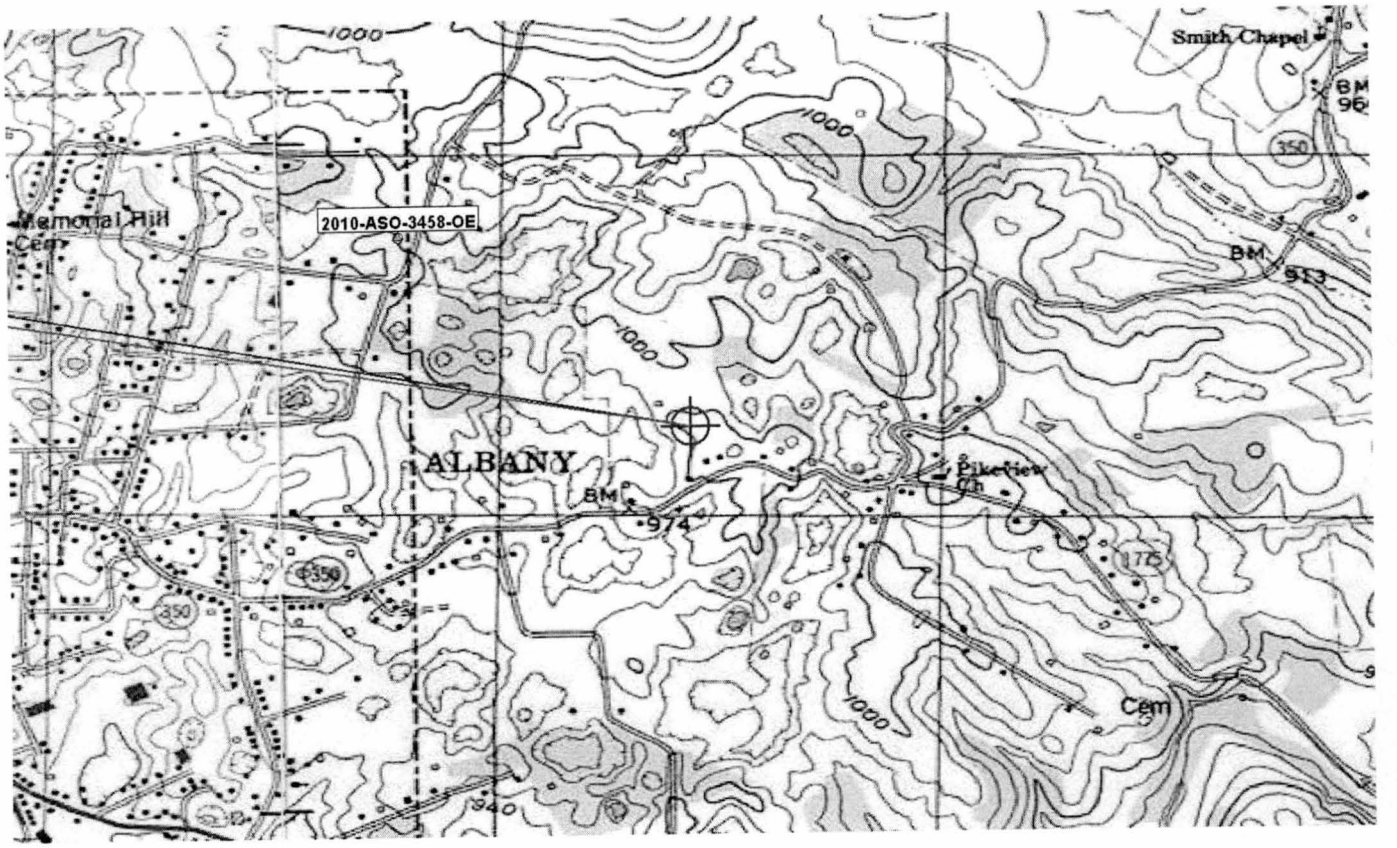
Attachment(s)
Frequency Data
Map(s)

cc: FCC

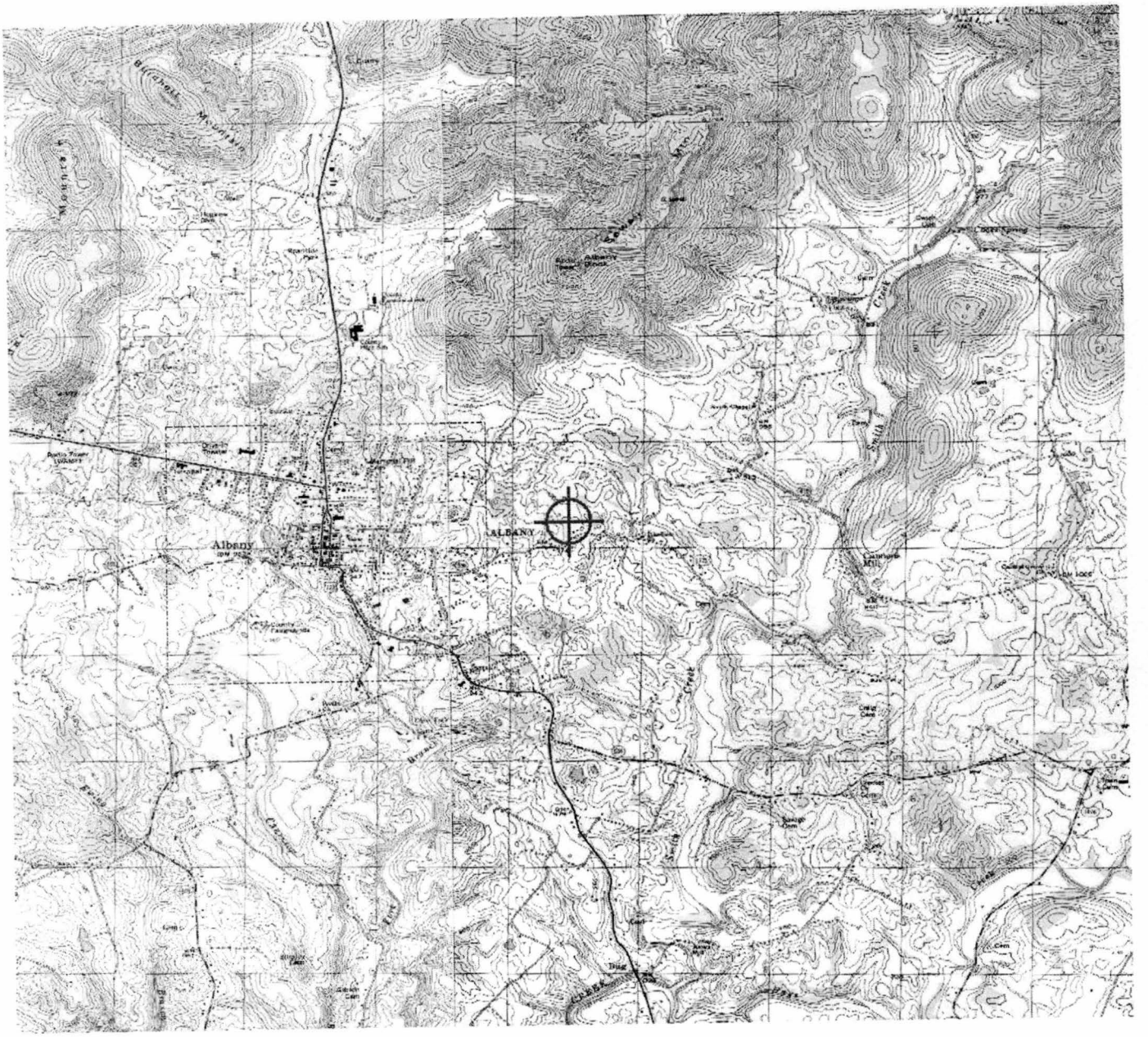
## Frequency Data for ASN 2019-ASO-1284-OE

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

## Verified Map for ASN 2019-ASO-1284-OE



# TOPO Map for ASN 2019-ASO-1284-OE



**KENTUCKY AIRPORT ZONING COMMISSION**

MATTHEW BEVIN
Governor

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

**CONDITIONAL APPROVAL**

May 2, 2019

BLUEGRASS CELLULAR
BLUEGRASS CELLULAR
2902 Ring Road
Elizabethtown, KY 42702

SUBJECT: AS-027-EKQ-2019-036

| | |
|---|---|
| STRUCTURE: | Antenna Tower |
| LOCATION: | Albany, KY |
| COORDINATES: | 36° 41' 34.37" N / 85° 6' 52.85" W |
| HEIGHT: | 250' AGL/1256'AMSL |

Your application for a permit to construct or alter the above structure was reviewed at the Wednesday, April 10, 2019 regular meeting of the Kentucky Airport Zoning Commission. This letter is to advise you that your permit has been tentatively approved by the Commission pending the FAA Determination. Upon receipt of notification of No Hazard, No IFR/VFR Effects from the FAA and FAA recommended lighting, final approval of your application will be granted and copies forwarded to you.

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

Sincerely,

John Houlihan

John Houlihan
Administrator

ASR Registration Search

# Registration 1311145

Map Registration

| | | | |
|---|---|---|---|
| Reg Number | 1311145 | Status | Granted |
| File Number | A1136626 | Constructed | |
| EMI | No | Dismantled | |
| NEPA | | | |

Structure Type LTOWER - Lattice Tower

**Location** (in NAD83 Coordinates)

| | | | |
|---|---|---|---|
| Lat/Long | 36-41-34.4 N 085-06-52.9 W | Address | Albany Capacity II, 1385 Old Monticello Road |
| City, State | Albany , KY | | |
| Zip | 42602 | County | CLINTON |
| Center of AM Array | | Position of Tower in Array | |

**Heights (meters)**

| Elevation of Site Above Mean Sea Level | Overall Height Above Ground (AGL) |
|---|---|
| 306.6 | 76.2 |
| Overall Height Above Mean Sea Level | Overall Height Above Ground w/o Appurtenances |
| 382.8 | 73.2 |

**Painting and Lighting Specifications**

FAA Chapters 4, 8, 12
Paint and Light in Accordance with FAA Circular Number 70/7460-1L

**FAA Notification**

| | | | |
|---|---|---|---|
| FAA Study | 2019-ASO-1284-OE | FAA Issue Date | 05/22/2019 |

| | | | |
|---|---|---|---|
| FRN | 0001786409 | Owner Entity Type | General Partnership |

**Owner**

CUMBERLAND CELLULAR PARTNERSHIP
P.O. Box 5012
ELIZABETHTOWN , KY 42702-5012

P: (502)769-0339
F:
E: jvice@bluegrasscellular.com

**Contact**

Gist , Pamela L Esq
8300 Greensboro Drive
Suite 1200
Tysons , VA 22102

P: (703)584-8665
F:
E: pgist@fcclaw.com

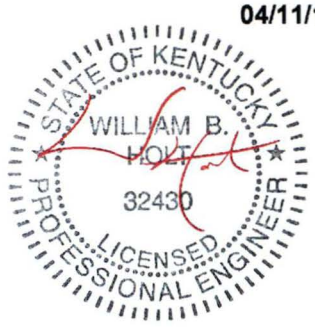
| | | | |
|---|---|---|---|
| Status | Granted | Received | 07/11/2019 |
| Purpose | Amendment | Entered | 07/11/2019 |

World Tower
COMPANY, INC.

1213 Compressor Drive
P.O. Box 508
Mayfield, KY 42066
270-247-3642
FAX: 270-247-0909
E-mail: worldtower@worldtower.com
Web: www.worldtower.com

# 240' MODEL WSST TOWER
# FOR: BLUEGRASS WIRELESS
# SITE: ALBANY 2
# CLINTON COUNTY, KY
# DESIGN PACKAGE

**04/11/19**



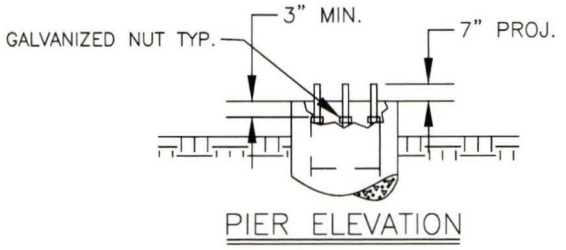

*Fabrication, Installation, and Maintenance of TV, AM, FM, & Wireless Communications Towers*

# GENERAL NOTES

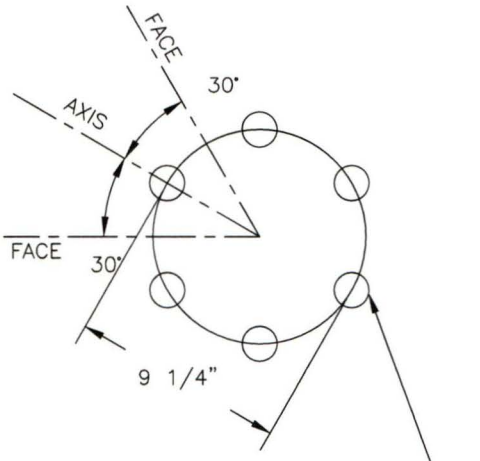
1. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISION OF THE AMERICAN WELDING SOCIETY AWS. D 1.1.
2. TOWER AND ALL FABRICATED ACCESSORIES ARE HOT-DIP GALVANIZED.
3. ALL BOLTS SHALL BE GALVANIZED ACCORDING TO THE STANDARD SPECIFICATION FOR ZINC COATING OF IRON AND STEEL HARDWARE ASTM A153.
4. LEG STEEL IS 50 KSI MIN YIELD SOLID ROUND OR PIPE AND BRACING STEEL IS 36 KSI MIN YIELD SOLID ROUND OR STRUCTURAL ANGLE.
5. ALL STRUCTURAL BOLTS ARE ASTM A325X, THREADS EXCLUDED FROM SHEAR PLANE.
6. TOWER SHOULD BE INSPECTED IN ACCORDANCE WITH TIA-222-G EVERY 5 YEARS.
7. TOWER INSPECTION SHOULD ONLY BE PERFORMED BY EXPERIENCED QUALIFIED PERSONNEL. FOR ASSISTANCE IN PROPER MAINTENANCE OF YOUR TOWER, CALL WORLD TOWER AT 270-247-3642.

04/11/19


| WORLD TOWER | | | |
|---|---|---|---|
| TITLE: 240' MODEL WSST TOWER<br>FOR: BLUEGRASS CELLULAR<br>SITE: ALBANY 2<br>CLINTON COUNTY, KY | | | |
| SCALE | DWN. LKG | CKD. | DATE 4-8-19 |
| | DWG. NO. | | Q19272N |



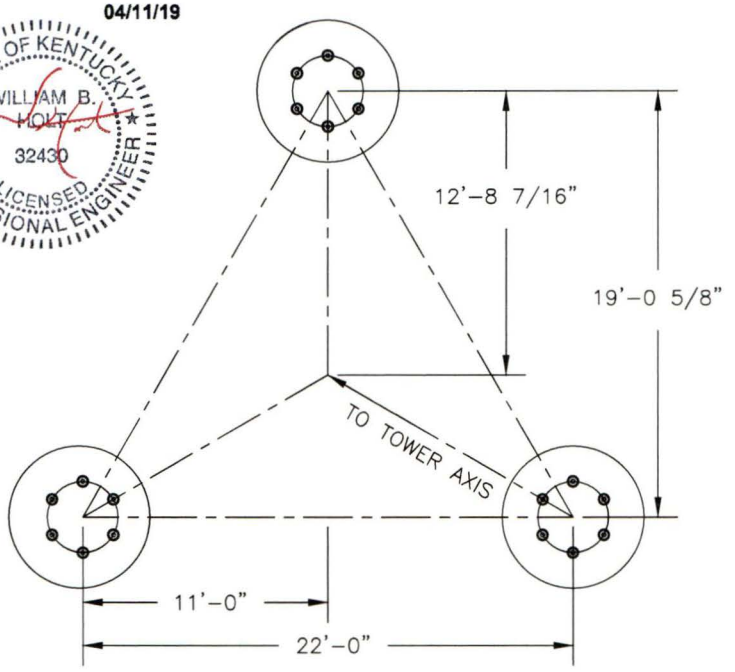

PIER ELEVATION




ANCHOR BOLTS 6 (18 TOTAL)
1 1/4"ø X 78" ASTM F1554-105
EQUALLY SPACED WITH TOP TEMPLATE
AND EMBEDDED PLATE

04/11/19

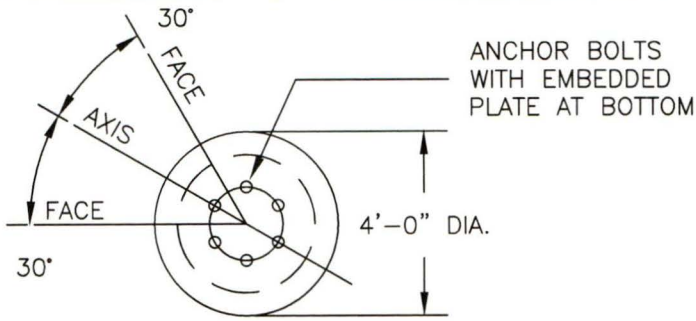
STATE OF KENTUCKY
WILLIAM B. HOLT
32430
LICENSED PROFESSIONAL ENGINEER



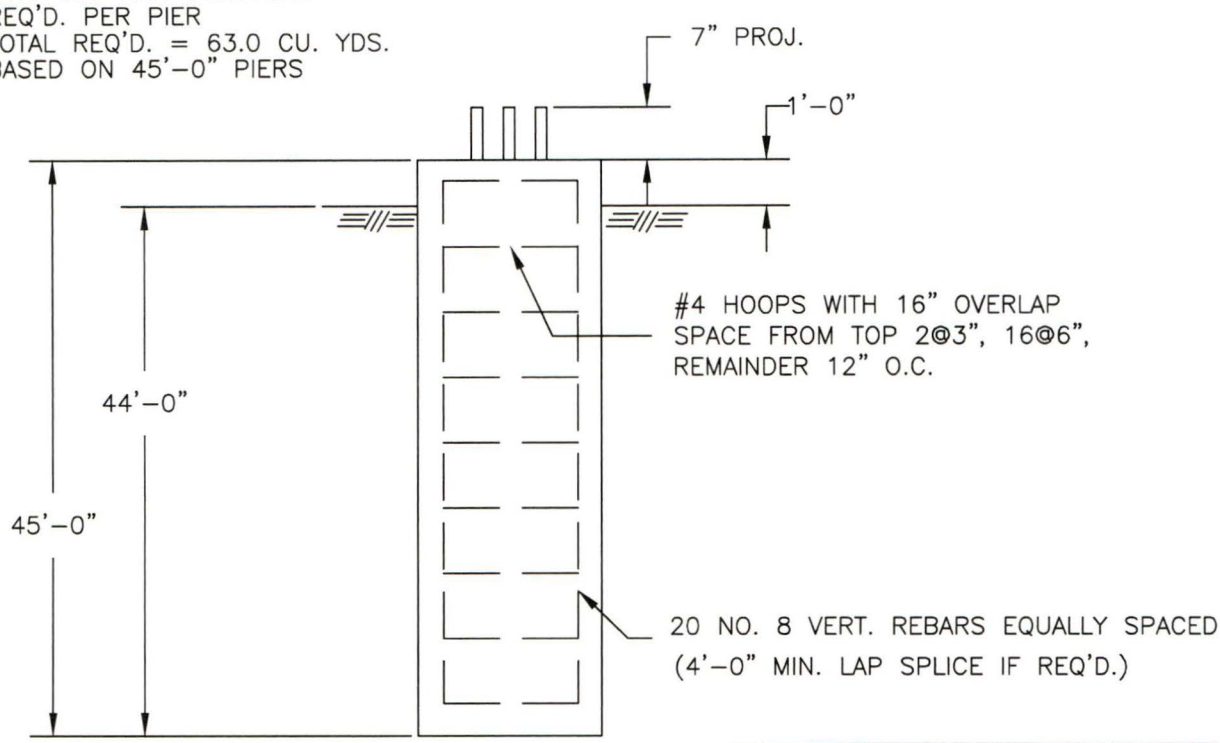

# WORLD TOWER

TITLE:
ANCHOR BOLT LAYOUT
240' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE: ALBANY 2
CLINTON COUNTY, KY

| SCALE NONE | DWN. LKG | CKD. | DATE 4-8-19 |
|---|---|---|---|
| FILE | | DWG. NO. Q19272AB | |




21.0 CU. YDS. CONCRETE
REQ'D. PER PIER
TOTAL REQ'D. = 63.0 CU. YDS.
BASED ON 45'–0" PIERS




**04/11/19**


| BASE REACTIONS | | |
|---|---|---|
| OTM: | 7831.0 | FT. KIPS |
| COMP. | 445.0 | KIPS |
| UPLIFT | 369.0 | KIPS |
| SHEAR (3 LEGS) | 58.0 | KIPS |
| WT. NO ICE | 102.0 | KIPS |
| WT. 3/4" ICE | 244.0 | KIPS |

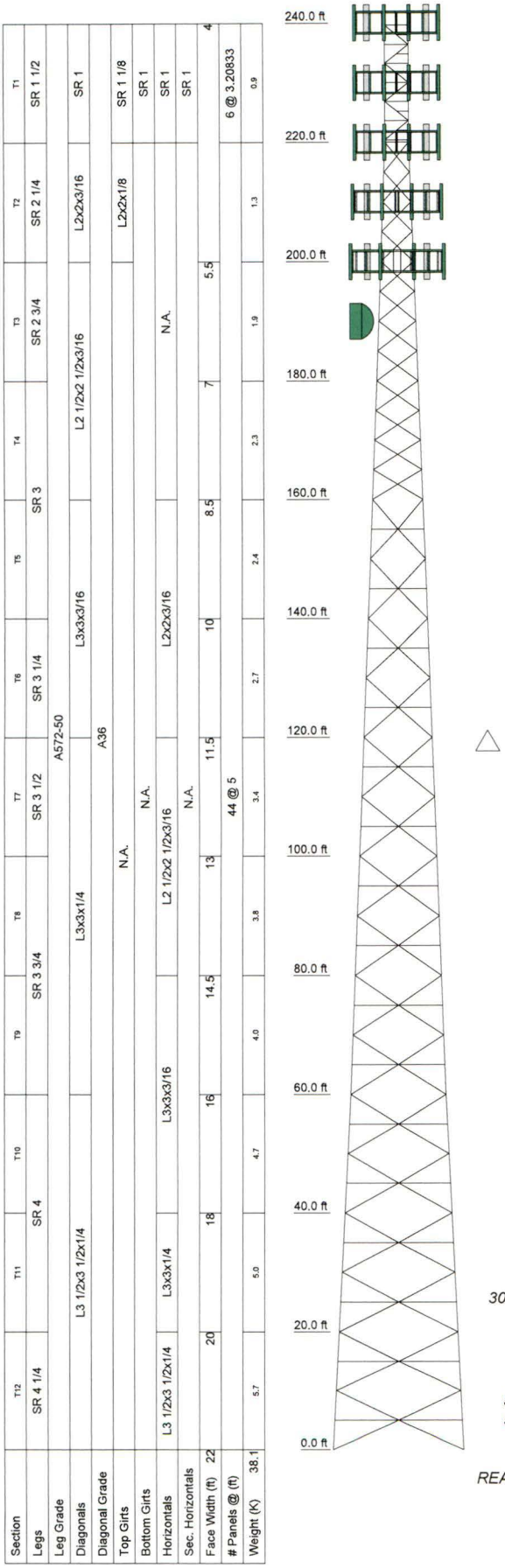
## GENERAL NOTES

1. CONCRETE TO HAVE 4000 PSI MIN. COMPRESSIVE STRENGTH AFTER 28 DAYS.
2. ALL REINFORCMENT STEEL IS DEFORMED AND MEETS THE STRENGTH REQUIREMENTS OF ASTM A615 GRADE 60.
3. EMBEDDED STEEL TO HAVE 3" MIN. CONCRETE COVER.
4. FOUNDATION DESIGN IS BASED ON CUSTOMER SUPPLIED SOIL DATA FROM TERRACON. PROJECT NUMBER 57185153 DATED FEBRUARY 20, 2019.

TITLE: FOUNDATION DETAIL
240' MODEL WSST TOWER
FOR: BLUEGRASS WIRELESS
SITE: ALBANY 2
CLINTON COUNTY, KY

# WORLD TOWER

| SCALE NONE | DWN. LKG | CKD. | DATE 4–8–19 |
|---|---|---|---|
| FILE | | DWG. NO. Q19272F | |




## DESIGNED APPURTENANCE LOADING

| TYPE | ELEVATION | TYPE | ELEVATION |
|---|---|---|---|
| (2) 800 10965 w/Mount Pipe | 240 | WD13X53 Antenna Mounting Frame (w/ .75)* | 220 |
| (2) 800 10965 w/Mount Pipe | 240 | (2) 800 10965 w/Mount Pipe | 210 |
| (2) 800 10965 w/Mount Pipe | 240 | (2) 800 10965 w/Mount Pipe | 210 |
| WD13X53 Antenna Mounting Frame (w/ .75)* | 240 | (2) 800 10965 w/Mount Pipe | 210 |
| WD13X53 Antenna Mounting Frame (w/ .75)* | 240 | WD13X53 Antenna Mounting Frame (w/ .75)* | 210 |
| WD13X53 Antenna Mounting Frame (w/ .75)* | 240 | WD13X53 Antenna Mounting Frame (w/ .75)* | 210 |
| (2) 800 10965 w/Mount Pipe | 230 | WD13X53 Antenna Mounting Frame (w/ .75)* | 210 |
| (2) 800 10965 w/Mount Pipe | 230 | (2) 800 10965 w/Mount Pipe | 200 |
| (2) 800 10965 w/Mount Pipe | 230 | (2) 800 10965 w/Mount Pipe | 200 |
| WD13X53 Antenna Mounting Frame (w/ .75)* | 230 | (2) 800 10965 w/Mount Pipe | 200 |
| WD13X53 Antenna Mounting Frame (w/ .75)* | 230 | WD13X53 Antenna Mounting Frame (w/ .75)* | 200 |
| WD13X53 Antenna Mounting Frame (w/ .75)* | 230 | WD13X53 Antenna Mounting Frame (w/ .75)* | 200 |
| (2) 800 10965 w/Mount Pipe | 220 | WD13X53 Antenna Mounting Frame (w/ .75)* | 200 |
| (2) 800 10965 w/Mount Pipe | 220 | 4.5"x7' Pipe Mount | 190 |
| (2) 800 10965 w/Mount Pipe | 220 | HPD6-5.9 | 190 |
| WD13X53 Antenna Mounting Frame (w/ .75)* | 220 | | |
| WD13X53 Antenna Mounting Frame (w/ .75)* | 220 | | |

## MATERIAL STRENGTH

| GRADE | Fy | Fu | GRADE | Fy | Fu |
|---|---|---|---|---|---|
| A572-50 | 50 ksi | 65 ksi | A36 | 36 ksi | 58 ksi |

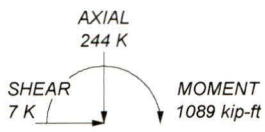
## TOWER DESIGN NOTES

1. Tower is located in Clinton County, Kentucky.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 105.00 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 30.00 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60.00 mph wind.
6. Tower Risk Category II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. fall radius less than half tower height per custome spec
9. TOWER RATING: 99.9%

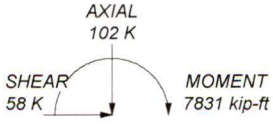
*ALL REACTIONS ARE FACTORED*

*MAX. CORNER REACTIONS AT BASE:*
*DOWN: 445 K*
*SHEAR: 37 K*

*UPLIFT: -369 K*
*SHEAR: 32 K*

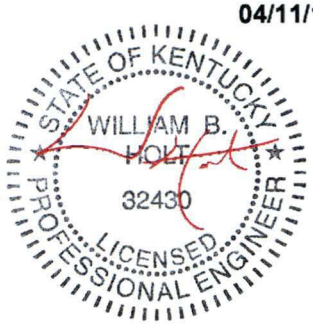



*TORQUE 2 kip-ft*
*30.00 mph WIND - 0.75 in ICE*




*TORQUE 24 kip-ft*
*REACTIONS - 105.00 mph WIND*

**04/11/19**





*World Tower Company*
1213 Compressor Drive
Mayfield, KY
Phone: (270) 247-3642
FAX:


| | | | |
|---|---|---|---|
| Job: **240' WSST / Run Q19272** | | | |
| Project: **Albany 2** | | | |
| Client: Bluegrass Cellular | Drawn by: WBH | | App'd: |
| Code: TIA-222-G | Date: 04/08/19 | | Scale: NTS |
| Path: G:\World Tower\2019\KY\Q19272 Albany 2\Analysis\Q19272.eri | | | Dwg No. E-1 |

Terracon GeoReport

# Geotechnical Engineering Report

**Proposed Bluegrass Cellular Tower at Albany, KY**
**Albany, Clinton County, KY**
February 20, 2019
Terracon Project No. 57185153

**Prepared for:**
Bluegrass Cellular, Inc.
Elizabethtown, Kentucky

**Prepared by:**
Terracon Consultants, Inc.
Louisville, Kentucky

February 20, 2019

Terracon GeoReport

Bluegrass Cellular, Inc.
2902 Ring Road
Elizabethtown, Kentucky 42701

Attn: Mr. Tim Ash
P: (270) 765-6361
E: tash@bluegrasscellular.com

Re: Geotechnical Engineering Report
Proposed Bluegrass Cellular Tower at Albany, KY
1385 Old Monticello Road
Albany, Clinton County, KY
Terracon Project No. 57185153

Dear Mr. Ash:

Terracon Consultants, Inc. (Terracon) has completed the Geotechnical Engineering Services for the proposed 240-foot self-support tower at Albany, KY. The purpose of this report is to provide geotechnical recommendations for foundation design and earthwork considerations. This study was performed in general accordance with Cumberland Cellular Partnership d/b/a Bluegrass Cellular Purchase Order PO-5144 dated November 30, 2018.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report or if we may be of further service, please contact us.

Sincerely,
**Terracon Consultants, Inc.**

Yibo Zhang, Ph.D., EIT
Staff Engineer

STATE OF KENTUCKY
BENJAMIN W. TAYLOR
2/20/19
27823
LICENSED PROFESSIONAL ENGINEER

Benjamin W. Taylor, P.E.
Senior Associate, Office Manager

Reviewed by Jenny Guest – Project Manager

## REPORT TOPICS



**Note:** This report was originally delivered in a web-based format. **Orange Bold** text in the report indicates a referenced section heading. The PDF version also includes hyperlinks which direct the reader to that section and clicking on the ***GeoReport*** logo will bring you back to this page. For more interactive features, please view your project online at client.terracon.com.

## ATTACHMENTS



**Note:** Refer to each individual Attachment for a listing of contents.

# Geotechnical Engineering Report

## Proposed Bluegrass Cellular Tower at Albany, KY
## 1385 Old Monticello Road
## Albany, Clinton County, KY

**Terracon Project No. 57185153**
**February 20, 2019**

## INTRODUCTION

This report presents the results of our subsurface exploration and geotechnical engineering services performed for the proposed 240-foot self-support tower to be located at 1385 Old Monticello Road in Albany, Clinton County, KY. The purpose of these services is to provide information and geotechnical engineering recommendations relative to:

- Subsurface soil (and rock) conditions
- Groundwater conditions
- Site preparation and earthwork
- Foundation design and construction
- Floor slab design and construction
- Seismic site classification per IBC

The geotechnical engineering Scope of Services for this project included the advancement of one test boring to a depth of 53 feet below existing site grades.

Maps showing the site and boring location are shown in the Site Location and Exploration Plan sections, respectively. The results of the laboratory testing performed on soil/rock samples obtained from the site during the field exploration are included on the boring log and/or as separate graphs in the Exploration Results section.

## SITE CONDITIONS

The following description of site conditions is derived from our site visit in association with the field exploration and our review of publicly available geologic and topographic maps.

| Item | Description |
|---|---|
| **Parcel Information** | We have reviewed the information provided by Bluegrass, which included Site Candidate Information and Site Sketch prepared by Landmark Surveying Co., Inc. dated November 19, 2018. Based on review of publicly available aerial map and the information provided to us, the project is located off of Old Monticello Road in Albany, Clinton County, Kentucky.<br>Approximate Latitude/ Longitude: 36.692944°, -85.114694° (tower center)<br>See Site Location |

| Item | Description |
|---|---|
| **Existing Improvements** | The project site for the proposed tower is located at an open grassy area surrounded with fences. The site is approximately 600 feet north of Old Monticello Road, and approximately 1,570 feet west of Asberry Road. |
| **Current Ground Cover** | Based on review of publicly available aerial map, the area adjacent to the proposed tower is grass covered. |
| **Existing Topography** | Based on review of USGS publicly available existing topographic contours, the site is generally flat (less than 10H:1V) within the area surrounded by fences. Based on the information provided by Landmark Surveying Co., Inc. (dated November 19, 2018), the ground surface elevation at the tower center is about 1,010 feet. We have considered this survey elevation in our boring log. |
| **Geology** | Based on available Kentucky Geological Survey, the project site is mapped within the St. Louis Limestones of Upper Mississippian age deposits. |

## PROJECT DESCRIPTION

Our initial understanding of the project was discussed during project planning. A period of collaboration has transpired since the project was initiated, and our final understanding of the project conditions is as follows:

| Item | Description |
|---|---|
| **Proposed Structures** | A new 240-foot-tall self-support tower using deep/shallow foundation is planned at the subject property. An equipment shelter using shallow foundation may be constructed for equipment support. |
| **240-foot Self-Support Tower:**<br>**Maximum Loads** | The following loading conditions are anticipated at each tower leg.<br>■ Vertical: 600 kips (to be confirmed)<br>■ Shear: 80 kips (to be confirmed)<br>■ Uplift: 500 kips (to be confirmed)<br>These anticipated loads are based on experience with similar projects. Loads should be confirmed by the project structural engineer. If loading conditions vary from those stated above, Terracon should review the recommendations in this report and confirm they are applicable. |

| Item | Description |
|---|---|
| **Equipment Building: Maximum loads** | The following loading conditions are anticipated for the equipment building.<br>■ Column: 34 kips (to be confirmed)<br>■ Wall: 1.5 kips/ft (to be confirmed)<br>These anticipated loads that are shown are based on experience with similar projects. Loads should be confirmed by the project structural engineer. If loading conditions vary from those stated above, Terracon should be provided with actual loading for review. |
| **Maximum allowable settlement** | The following tolerable settlements are anticipated for the proposed structures:<br>■ 240-ft Self-Support Tower<br>Total: 1-inch (to be confirmed)<br>■ Equipment Building<br>Total: 1-inch (to be confirmed)<br>Differential: ¾ inch over 40 feet (to be confirmed)<br>These anticipated tolerable settlements are based on experience with similar projects. If tolerable settlements vary from those stated above, Terracon should be contacted for review. |
| **Grading/Slopes** | Please see the Site Conditions for additional details regarding the existing site topography. Site grading plans were not provided at the time of this report. For the purposes of this report, we anticipate up to 3 feet of cuts and fills may be required. Terracon should be retained to review the topographic plan and grading plan upon availability relative to the recommendations contained in this report. We anticipate that any cut/fill slopes will be flatter than 3H:1V. |

# GEOTECHNICAL CHARACTERIZATION

## Regional Geology

| Formation | Description |
|---|---|
| **St. Louis Limestones of Upper Mississippian age**[1] | Limestone and siltstone<br>Limestone, very dark to medium-gray, very fine grained (mostly calcilutite), some medium-grained (calcarenite) in upper part; commonly cherty, upper 20 to 30 feet contains chert nodules, pods, and stringers; thin to thick bedded; interbedded and gradational with calcareous siltstone. Siltstone commonly more abundant in lower part of formation. Extensive outcrop area is characterized by a well-developed karst topography, which may represent part of a widespread strath at an elevation of about 1,000 feet. Basal contact sharp, well exposed along Spring Creek and its tributaries. Unit commonly weathers to clay soil and residuum 5 to 30 feet thick that contains abundant chert. |

1. Based on the Geologic map of the Savage quadrangle and part of the Moodyville quadrangle, Clinton and Wayne Counties, Kentucky published by U.S. Geological Survey (Quadrangle GQ-1318).

The St. Louis Limestones are reported to have a very high potential for karst development (*e.g.* may exhibit mature karst features, including sinkholes, springs, caves, or other solution features). Multiple sinkholes are mapped within ½ mile radius of the project site based on published karst potential maps prepared by the Kentucky Geological Survey.

This formation is highly susceptible to dissolution along joints and bedding planes in the rock mass. This results in voids and solution channels developing within the rock strata creating a highly irregular "cutter and pinnacle" bedrock surface. The weathering of the bedrock and subsequent collapse or erosion of the overburden into these openings results in what is referred to as karst topography.

Any construction in karst topography is accompanied by some degree of risk for future internal soil erosion and ground subsidence that could affect the stability of structures situated above the karst features. The risks associated with karst geology are common for the project vicinity and are not unique to this site. Soil softening is a unique characteristic of this site and elevates project risk associated with potential karst behavior.

## GeoModel – Subsurface Profile

We have developed a general characterization of the subsurface conditions based upon our review of the subsurface exploration, laboratory data, geologic setting and our understanding of the project. This characterization, termed GeoModel, forms the basis of our geotechnical

calculations and evaluation of site preparation and foundation options. Conditions encountered at each exploration point are indicated on the individual log. The individual log can be found in the **Exploration Results** section and the GeoModel can be found in the **Figures** section of this report.

As part of our analyses, we identified the following model layers within the subsurface profile. For a more detailed view of the model layer depths at the boring location, refer to the GeoModel.

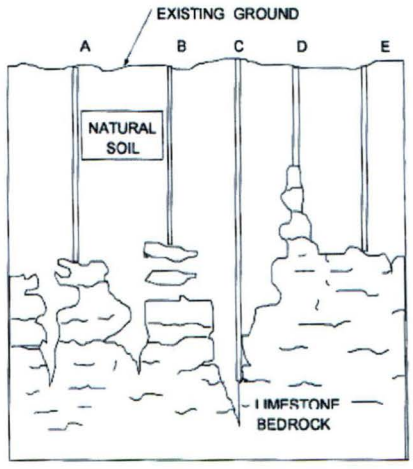
| Model Layer | Layer Name | General Description |
|---|---|---|
| 1 | **Surficial cover** | Topsoil and silty clay |
| 2 | **Fat clay** | Red with brown/gray fat clay, trace sand, with chert, very stiff |
| 3 | **Clayey sand** | Brown clayey sand, medium dense to loose |
| 4 | **Limestone** | Olive gray limestone, very strong |

Auger refusal was encountered at a depth of approximately 38 feet below existing grade at boring B-1 and the boring was extended using rock coring techniques (NQ-II) to a depth of about 53 feet below existing grade. Auger refusal is defined as the depth below the ground surface at which a test boring can no longer be advanced with the soil drilling technique being used. In an area of karst limestone bedrock, auger refusal can result on slabs of unweathered limestone suspended in the residual soil matrix ("floaters"), on rock "pinnacles" rising above the surrounding bedrock surface, in widened joints that may extend well below the surrounding bedrock surface, or on the upper surface of continuous bedrock. Several of these possible auger refusal conditions are illustrated in the figure below.

The St. Louis Limestone bedrock formation is known for producing several obstructions that can cause the augers to refuse above sound bedrock. These obstructions can range from floaters to rock pinnacles as illustrated in Examples A, B, C, and D in the figure. Depth to competent bedrock can vary greatly over short distances. The possibility of varying depths to bedrock should be considered when developing the design and construction plans for this project. Rock core operations were performed to better explore the refusal materials.

Competent limestone bedrock was encountered at about 38 feet below existing grade. Sample recovery in competent limestone was 100 percent. The rock quality of the core obtained in competent bedrock is considered to be excellent with RQD value of 92 percent.

AUGER REFUSAL ILLUSTRATION




THIS FIGURE IS FOR ILLUSTRATIVE PURPOSES ONLY AND DOES NOT NECESSARILY DEPICT THE SPECIFIC BEDROCK CONDITIONS AT THIS SITE

Specific conditions encountered at the boring location are indicated on the attached boring log. Stratification boundaries on the boring log represent the approximate location of changes in soil types; in-situ, the transition between materials may be gradual. Further details of the boring can be found on the boring log in the Appendix of this report. Photographs of the rock core samples can be observed in the rock core Photography Log.

### Groundwater Conditions

The borehole was observed while drilling for the presence and level of groundwater. No groundwater was observed in the boring for the short duration that the borehole was open. Due to the relatively low permeability of the soils encountered in the borings, a relatively long period of time may be necessary for a groundwater level to develop and stabilize in a borehole in these materials. Long-term observations in piezometers or observation wells sealed from the influence of surface water are often required to define groundwater levels in materials of this type. As water was introduced into the borehole for the coring operation, the groundwater table could be present within the depth of our boring.

Groundwater level fluctuations occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the borings were performed. Therefore, groundwater levels during construction or at other times in the life of the structure may be higher or lower than the level at the time of our exploration. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project. In particular, this project has potential for trapped/perched water at the overburden/bedrock interface.

## GEOTECHNICAL OVERVIEW

The following sections describe pertinent geotechnical considerations identified by the exploration and laboratory testing. Site preparation recommendations, including subgrade improvement, fill placement, and excavations are provided in the Site Preparation section.

### Karst Potential

The project site is located at an area with high karst potential and several previously mapped sinkholes within ½ mile of the site. Soil softening, which is the decrease of strength with depth, was also observed in the overburden soil at our boring below a depth of about 30 feet. Similarly, soil softening and localized poor quality rock was encountered for Terracon project within 4 miles of this site, based on review of archive data.

Any structure with shallow foundation constructed at this site could be impacted due to potential future karst activity. Shallow foundations are not recommended for the tower.

## High Plasticity Clays

Based on our lab results, high plasticity clays were encountered in our boring. Please refer to boring logs for additional details. High plasticity soils are potentially expansive and could adversely affect lightly loaded building elements such as the floor slabs and pavements. Depending on the final grading plan, remedial measures may be implemented to limit swelling potential, such as over-excavation and replacement with low volume change (LVC) materials, treatment with a chemical admixture, etc.

## Shaft Excavation Caving Considerations

Groundwater was observed during the short period of drilling. Long-term monitoring of the groundwater was not a part of this scope of work. Groundwater could be encountered during the drilling for the drilled pier. If groundwater seepage is encountered, water should be removed from each pier hole prior to concrete placement. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction.

Due to the combination of potentially soft soils and the possible presence of groundwater, the contractor should have temporary casing available onsite during construction of the drilled pier to control seepage and/or caving soil, if encountered. The need for casing should be anticipated below 30 feet below existing grade and possibly shallower, where apparent soil softening was encountered and where moisture content test results indicated an increase in moisture to about 30 percent. If used, the casing should be carefully extracted from the drilled pier excavation following concrete placement.

## Foundation Support

Due to the risk of karst activity at the site, shallow foundation support for the proposed tower is not recommended. Therefore, design parameters for deep foundations have been provided at later sections. Competent limestone bedrock was encountered at a depth of 38 feet below existing grade. We were not provided with the information of shaft diameter, we are specifying a minimum shaft diameter of 30 inches. Minimum socket length should be the larger value of 1.5 times the shaft diameter (for the allowable end bearing to apply) and being able to provide sufficient side friction (to support the structural load). Therefore, to mobilize the strength parameters recommended in the Foundations section of our report, the pier should be embedded a minimum of 6 feet into competent bedrock (a minimum socket length of 6 feet) and should be tipped at a minimum depth of about **44** feet below existing grade.

The equipment building can be supported by shallow foundations bearing on undisturbed, at least **very stiff** natural cohesive soils or new lean clay engineered fill or lean concrete placed directly on at least **very stiff** native soils. Should shallow foundations be selected for the equipment building, the client should be prepared to accept the risk for of construction in karst topography.

Inspection of the bearing conditions should be performed by a geotechnical engineer or representative to identify any potential problematic conditions. Any undercut and replacement of unsuitable soils should be replaced with new engineered fill meeting the requirements of the Material Types in the Site Preparation section of this report or lean concrete. Additional recommendations for design and construction of foundations are presented in the following sections.

The General Comments section provides an understanding of the report limitations.

## EARTHWORK

Earthwork is anticipated to include clearing and grubbing, excavations, and fill placement. The following sections provide recommendations for use in the preparation of specifications for the work. Recommendations include critical quality criteria, as necessary, to render the site in the state considered in our geotechnical engineering evaluation for foundations and floor slabs.

### Site Preparation

The following presents recommendations for site preparation, excavation, and fill placement. Special considerations will be needed where site grading may expose unstable soils. Our recommendations presented for design and construction of earth supported elements (i.e. foundations, slabs, etc.) are contingent upon following the recommendations outlined in this section. Due to the karst features, earthwork activities on the project should be observed and evaluated by Terracon.

Prior to construction, the site should be grubbed and all vegetation, topsoil and any otherwise unsuitable material should be removed from the construction area. Wet or dry material should either be removed or moisture conditioned and recompacted to the project specified densities and moisture contents. Any unsuitable materials (such as fat clay) should be undercut and replaced with low volume change material meeting the requirements of the Fill Material Requirements section of this report. We recommend the actual stripping depth and undercutting of unsuitable soils be observed and documented by a representative of Terracon during construction.

Following rough grading, and prior to placement of foundations, the subgrade should be evaluated by proofrolling where possible to aid in locating unstable subgrade soils. Any soft, loose, or otherwise unsuitable areas identified during the proofroll will require undercutting or improvement. Where proofrolling is not possible, the subgrade should be evaluated by observation and probing to aid in locating unsuitable or unstable areas. The appropriate method and amount of stabilization, if required, should be determined at the time of construction based on observations by the geotechnical engineer.

It should be noted that the on-site clay soils may be susceptible to disturbance from construction activity, particularly if the soil has high natural moisture and is wetted by surface water or seepage. Therefore, care should be taken during the site grading operation to provide adequate site drainage and minimize disturbance of the bearing soils.

## Fill Material Types

All imported material or on-site material proposed for reuse should be tested to verify conformance with the material property and placement recommendations in this section. Engineered fill should meet the following material property requirements:

| Fill Type [1] | USCS Classification | Acceptable Location for Placement |
|---|---|---|
| Lean Clay [2] | CL (LL<50% & PI<15) | All locations and elevations. |
| Fat Clay [2] | CH (LL>50%) | On-site available soil. Not recommended for use as structural fill within 2 feet of any structures (i.e. floor slabs and foundations). |
| Well graded granular and silty gravel | GM-GW, GM | All locations and elevations |
| Low Volume Change Material | CL or GM-GW, GM [3] (LL<40% & PI<15) | All locations and elevations |

1. Controlled, compacted fill should consist of approved materials that are free of organic matter and debris. Frozen material should not be used, and fill should not be placed on a frozen subgrade. A sample of each material type should be submitted to the geotechnical engineer for evaluation.
2. Delineation of lean clays and fat clays should be performed in the field by a qualified geotechnical engineer or their representative, and could require additional laboratory testing.
3. Similar to KYTC DGA or crushed stone base limestone, limestone screenings, or granular material such as sand, gravel or crushed stone containing not more than 14% non-plastic fines.

## Fill Compaction Requirements

Structural and general fill should meet the following compaction requirements.

| ITEM | DESCRIPTION |
|---|---|
| **Fill Lift Thickness** | 8-inches or less loose thickness for heavy, self-propelled compaction equipment.<br>4- to 6-inches loose thickness for hand-guided equipment (i.e. jumping jack or plate compactor). |
| **Compaction Requirements [1] (Structural Areas)** | At least 98% of the materials Standard Proctor maximum dry density (ASTM D 698) |

| ITEM | DESCRIPTION |
|---|---|
| **Compaction Requirements (Landscape Areas)** | At least 95% of Standard Proctor maximum dry density (provided long-term plans do not include a structure in these areas) |
| **Moisture Content - Cohesive Soils** | Within the range of the optimum moisture content (OMC) to 3% above OMC as determined by the Standard Proctor test at the time of placement and compaction |
| **Moisture Content - Granular Material** [2] | Within workable moisture levels / ±2% of OMC |

1. Engineered fill should be tested for moisture content and compaction during placement. Should the results of the in-place density tests indicate the specified moisture or compaction limits have not been met, the area represented by the test should be reworked and retested as required until the specified moisture and compaction requirements are achieved.
2. Specifically, moisture levels should be maintained low enough to allow for satisfactory compaction to be achieved without the cohesionless fill material pumping when proofrolled.

## Utility Trench Backfill

All trench excavations should be made with sufficient working space to permit construction including backfill placement and compaction. If utility trenches are backfilled with relatively clean granular material, they should be capped with at least 18 inches of cohesive soil to reduce the infiltration and conveyance of surface water through the trench backfill.

Utility trenches are a common source of water infiltration and migration. All utility trenches that penetrate beneath the foundation should be effectively sealed to restrict water intrusion and flow through the trenches that could migrate below the foundation with a clay plug. The plug material should consist of clay compacted at a water content at or above the soil's optimum water content. The clay fill should be placed to completely surround the utility line and be compacted in accordance with recommendations in this report.

## Grading and Drainage

Effective site drainage is important both during construction and during the life of the structures. Adequate drainage will be necessary to control and divert stormwater runoff away from the site. Final surrounding grades should be sloped away from the foundations to prevent ponding of water.

Excess materials generated during site grading, including soils unsuitable for use as engineered fill (i.e. high-plasticity material, topsoil, etc.), and may be placed as fill in non-structural landscape areas and in the construction of landscape berms. To the extent possible, these materials should be placed in accordance with the Fill Compaction Requirements.

## Earthwork Construction Considerations

Although the exposed subgrade may be relatively stable upon initial exposure, unstable subgrade conditions could develop during general construction operations, particularly if the soils are wetted and/or subjected to repetitive construction traffic. It is recommended that construction activities be performed during drier weather, if possible. Some subgrade instability should be anticipated if construction is planned during wet weather that may require undercutting and/or stabilization. The use of light construction equipment would aid in reducing subgrade disturbance. Should unstable subgrade conditions develop, stabilization measures will need to be implemented.

Shallow excavations are anticipated to be accomplished with conventional construction equipment. Upon completion of filling and grading, care should be taken to maintain the subgrade water content prior to placement of utilities. Construction traffic over the completed subgrades should be avoided. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. Water collecting over, or adjacent to, construction areas should be removed. If the subgrade freezes, desiccates, saturates, or is disturbed, the affected material should be removed, or the materials should be scarified, moisture conditioned, and recompacted, prior to foundation construction.

At a minimum, all temporary excavations should be sloped or braced as required by OSHA guidelines to provide stability and safe working conditions, and to protect the integrity of adjacent structures. Temporary excavations will probably be required during grading operations and utility trenches. The grading contractor, by his contract, is usually responsible for designing and constructing stable, temporary excavations and should shore, slope or bench the sides of the excavations as required, to maintain stability of both the excavation sides and bottom. All excavations should comply with applicable local, state and federal safety regulations, including the current Occupational Safety and Health Administration (OSHA) Excavation and Trench Safety Standards.

Construction site safety is the sole responsibility of the contractor who controls the means, methods, and sequencing of construction operations. Under no circumstances shall the information provided herein be interpreted to mean Terracon is assuming responsibility for construction site safety, or the contractor's activities; such responsibility shall neither be implied nor inferred.

The geotechnical engineer should be retained during the construction phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; proofrolling; placement and compaction of controlled compacted fills; backfilling of excavations into the completed subgrade, and just prior to construction.

### Construction Observation and Testing

The earthwork efforts should be monitored under the direction of the Geotechnical Engineer. Monitoring should include documentation of adequate removal of vegetation and topsoil, proofrolling, and mitigation of areas delineated by the proofroll to require mitigation.

Each lift of compacted fill should be tested, evaluated, and reworked, as necessary, until approved by the Geotechnical Engineer prior to placement of additional lifts. Each lift of fill should be tested for density and water content at a frequency of at least one test for every 2,500 square feet of compacted fill in the building areas. One density and water content test should be performed for every 50 linear feet of compacted utility trench backfill.

In areas of foundation excavations, the bearing subgrade should be evaluated under the direction of the Geotechnical Engineer. If unanticipated conditions are encountered, the Geotechnical Engineer should prescribe mitigation options.

In addition to the documentation of the essential parameters necessary for construction, the continuation of the Geotechnical Engineer into the construction phase of the project provides the continuity to maintain the Geotechnical Engineer's evaluation of subsurface conditions, including assessing variations and associated design changes.

## SHALLOW FOUNDATIONS

Due to the risk for karst activity at the site, shallow foundation support for the proposed tower is not recommended. If the site has been prepared in accordance with the requirements noted in Earthwork, the following design parameters are applicable for shallow foundations.

### Equipment Shelter Shallow Foundation Design Parameters

| Parameter | Column | Wall |
|---|---|---|
| Maximum net allowable bearing pressure on engineered fill or lean concrete extending to at least stiff clay [1] | 3,000 psf | |
| Minimum foundation plan dimensions | 24 inches | 18 inches |
| Required bearing stratum [2] | Engineered fill or lean concrete extending to at least very stiff clay | |
| Ultimate coefficient of sliding friction | 0.30 | |
| Ultimate passive pressure [3] | 350 psf (below 3 feet) | |

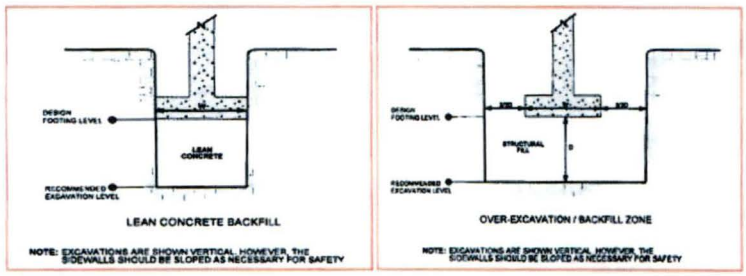
| | |
|---|---|
| Minimum embedment below finished grade for frost protection [4] | 24 inches |
| Est. total settlement from structural loads [5] | < 1 inch |
| Estimated differential settlement [5] | < 1 inch |

1. The maximum net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation. An appropriate factor of safety has been applied.
2. Unsuitable or soft soils should be undercut, and the footings should be deepened to bear on the competent bearing stratum or could bear on lean concrete or new engineered fill extending from the foundation base to competent bearing stratum. Fat clays at this site should be undercut a minimum 24 inches and replaced with suitable materials, or deepened to bear 48 inches below existing grade.
3. The sides of the excavation for the spread footing foundation must be nearly vertical and the concrete should be placed neat against these vertical faces for the passive earth pressure value to be valid. If the loaded side is sloped or benched, and then backfilled, the allowable passive pressure will be significantly reduced. Passive resistance in the upper 3 feet of the subsurface profile should be neglected.
4. For perimeter footing and footings beneath unheated areas. Also to reduce the effects of seasonal moisture variations in the subgrade soils.
5. The foundation settlement will depend upon embedment depth of the footings, the quality of the earthwork operations, and conformance with soil improvement methods recommended in this report. The estimated settlements are based on recommended allowable bearing pressures, long-term settlement will depend on the quality and uniformity of the engineered fill placement. This settlement does not account for any ground movement associated with karst activity.

## Shallow Foundation Construction Considerations

The base of all foundation excavations should be free of water and loose soil prior to placing concrete. Concrete should be placed soon after excavating to reduce bearing soil disturbance. Should the soils at bearing level become excessively dry, disturbed or saturated, or frozen, the affected soil should be removed prior to placing concrete. Place a lean concrete mud-mat over the bearing soils if the excavations must remain open over night or for an extended period of time. It is recommended that the geotechnical engineer be retained to observe and test the soil foundation bearing materials.

If unsuitable bearing soils are encountered in footing excavations, the excavations should be extended deeper to suitable soils and the footings could bear directly on these soils at the lower level or on lean concrete backfill (minimum of 500 psi) placed in the excavations. The footings could also bear on properly compacted lean clay backfill extending down to the suitable soils. Overexcavation for compacted lean clay backfill placement below footings should extend laterally beyond all edges of the footings at least 8 inches per foot of overexcavation depth below footing base elevation. The overexcavation should then be backfilled up to the footing base elevation with engineered fill as described in the Compaction Requirements section placed in lifts of 8 inches or less in loose thickness and compacted to at least 98 percent of the material's maximum dry density as defined by the Standard Proctor (ASTM D 698). The overexcavation and backfill procedure is illustrated in the following figures for lean concrete or lean clay structural fill.




## DEEP FOUNDATIONS

### Drilled Shaft Design Parameters

Drilled piers should be designed with a minimum shaft diameter of 30 inches to facilitate clean out and inspection of the bedrock surface from the ground. If the limestone layer is selected for support of the drilled pier, the pier should be at a minimum tip depth of 44 feet below existing grades (6-foot socket into limestone bedrock).

Based on the results of the test boring data and laboratory testing, we have developed the following drilled pier soil and rock design parameters:

| Approximate Depth (feet) | Allowable Skin Friction (psf) | Allowable End Bearing Capacity (psf) | Undrained Shear Strength, c (psf) | Unit Weight (pcf) | Strain $\varepsilon_{50}$ / $K_{rm}$ | Lateral Subgrade Modulus, k (pci) | Model |
|---|---|---|---|---|---|---|---|
| 0 – 3.5 | Ignore | Ignore | Ignore | Ignore | Ignore | Ignore | Ignore |
| Fat Clay 3.5 – 22 | 430 | -- | 3,000 | 120 | $\varepsilon_{50}$ 0.007 | 120 | Very stiff clay w/o water |
| Clayey Sand 22 – 38 | 560 | -- | 0 | 110 | $\varepsilon_{50}$ 0.001 | 150 | Medium dense to loose sand with water |
| Limestone 38 – 44 | 7,500 | 271,600 | 4,000 | 150 | $k_{rm}$ 0.00001 | 3,000 | Very strong Rock (RQD=92) |

The above indicated cohesion, friction angle, lateral subgrade modulus and strain values have no factors of safety. The allowable skin friction has a factor of safety of 2. The allowable end bearing pressure provided in the table has an approximate factor of safety of 3. The parameters in the above table are based on our boring, published values and our past experience with similar soil and rock types. These values should, therefore, be considered approximate. To mobilize the higher rock strength parameters, the pier should be socketed at least 6 feet into the bearing stratum. If the drilled pier is designed using the above parameters and bear within the competent sandstone bedrock with a minimum socket length of 6 feet, settlement is anticipated to be about ½ inch or less.

Our recommendations provided in this section do not include consideration for lateral capacity. However, we can perform LPile analysis upon request.

### Drilled Shaft Construction Considerations

Groundwater is expected to be encountered during the drilling for the drilled pier. If groundwater seepage is encountered, water should be removed from each pier hole prior to concrete placement. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction. The contractor should have temporary casing available onsite during construction of the drilled pier to control seepage and/or caving soil, if encountered.

At boring B-1 from 28 to 38 feet below existing grade, moisture content test results ranged from 30 to 31 percent. The material encountered at about 22 feet to auger refusal depth will be susceptible to collapse during drilling. Due to the soft soils encountered at our boring, the contractor should have temporary casing available onsite during construction of the drilled pier to control seepage and/or caving soil and/or rock, if encountered. The casing should be extracted from the drilled pier excavation following concrete placement.

Difficult drilling conditions may be encountered due to hard limestone. The contractor should be prepared to penetrate bedrock with competent limestone bedrock. The bottom of the excavation should be inspected carefully by a qualified geotechnical engineer or representative for voids, clay layers within the limestone, or any otherwise unsuitable bearing conditions.

Based on compressive strength and rock quality data, we expect that advancement of piers to minimum embedment in rock could be achieved by a rock auger equipped with self-rotating cutter bits or by rock coring. However, advancement method may vary between contractors depending on experience and their evaluation of penetration rates for the site conditions.

The bottom of the shaft should be free of loose soil or debris prior to reinforcing steel and concrete placement. We recommend that reinforcing steel and pier concrete be placed the same day as the shaft is drilled. No completed shaft excavation should be allowed to remain open overnight. It is suitable, however, for the contractor to excavate a portion of the drilled shaft and then complete the shaft excavation the next day.

If pier concrete cannot be placed in dry conditions, a tremie should be used for concrete placement. Free-fall concrete placement in piers will only be acceptable if provisions are taken to avoid striking the concrete on the sides of the hole or reinforcing steel. The use of a bottom-dump hopper or tremie discharging near the bottom of the hole where concrete segregation will be minimized, is recommended. Due to potential sloughing and raveling, foundation concrete quantities may exceed calculated geometric volumes.

Adequate performance of the drilled shaft foundations will be highly dependent on the contractor's installation techniques used to construct the foundation elements. At a minimum, the following inspection criteria should be incorporated as a requirement for construction of the drilled piers.

Bearing conditions of the drilled pier foundations should be evaluated by a qualified geotechnical engineer at the time of construction to confirm suitable end bearing on competent bedrock and to provide recommendations if unsuitable bearing materials are encountered. Entry of personnel into the drilled pier foundations is not required and is strongly discouraged for this project. The evaluation of the piers should include the following:

- Contractor should advance a test hole with an air track drill through the bedrock bearing surface to a depth of at least two times the pier diameter to check for discontinuities in the bedrock that may require additional rock removal.
- The number of test holes at each pier location would be determined by the geotechnical engineer's representative based on the field test results.
- Significant discontinuous rock layers may require additional rock removal as directed by the engineer's representative.
- Prior to installation of the reinforcing steel cage, the base of each pier should be sounded to check for voids or clay seams in the underlying bedrock. This could be done by dropping the drill rig Kelly bar onto the exposed bedrock surface at selected locations.
- Visual evaluation of the exposed bearing surface should be performed by the engineer's representative to confirm that the base is free from loose material, soil, water or other unsuitable materials. Visual inspection to determine the suitability of the shaft bottom using either a flashlight or reflected light with a mirror may be conducted from the ground surface.

## SEISMIC CONSIDERATIONS

The seismic design requirements for buildings and other structures are based on Seismic Design Category. Site Classification is required to determine the Seismic Design Category for a structure. The Site Classification is based on the upper 100 feet of the site profile defined by a weighted average value of either shear wave velocity, standard penetration resistance, or undrained shear strength in accordance with Section 20.4 of ASCE 7 and the International Building Code (IBC). Based on the soil/bedrock properties encountered at the site and as described on the exploration log and results, it is our professional opinion that the **Seismic Site Classification is D**.

Subsurface explorations at this site were extended to a maximum depth of 53 feet. The site properties below the boring depth to 100 feet were estimated based on our experience and knowledge of geologic conditions of the general area. Additional deeper borings or geophysical testing may be performed to confirm the conditions below the current boring depth.

## FLOOR SLABS

As discussed previously, we recommend that the fat clay be undercut a minimum of 2-foot below design slab and foundation bearing elevation. Where undercut is performed below the floor slab bearing elevation, the exposed material should pass a proofroll. Native soils below the floor slab bearing elevation should pass a proofroll observed by a geotechnical engineer or representative. Please refer to the Site Preparation section of this report for additional details regarding the partial undercut and replacement below floor slab subgrade elevation.

### Design Parameters

| Item | Description |
|---|---|
| **Floor slab support** | Engineered fill, or at least 2-foot of low volume change material (CL) |
| **Modulus of subgrade reaction** | 100 pounds per square inch per in (psi/in) for point loading conditions |
| **Aggregate base course/capillary break** [1] | Minimum 4 inches of free-draining granular material |
| **Vapor Barrier** | Project Specific [2] |
| **Structural considerations** | Floor slabs should be structurally independent of building [3] |

1. The floor slab design should include a capillary break, comprised of free-draining, compacted, granular material, at least 4 inches thick. Free-draining granular material should have less than 5 percent fines (material passing the #200 sieve).
2. The use of a vapor retarder should be considered beneath concrete slabs on grade that will be covered with wood, tile, carpet or other moisture sensitive or impervious coverings, or when the slab will support equipment sensitive to moisture. When conditions warrant the use of a vapor retarder, the slab designer should refer to ACI 302 and/or ACI 360 for procedures and cautions regarding the use and placement of a vapor retarder.
3. Floor slabs should be structurally independent of any building footings or walls to reduce the possibility of floor slab cracking caused by differential movements between the slab and foundation. Where floor slabs are tied to perimeter walls or turn-down slabs to meet structural or other construction objectives, our experience indicates that any differential movement between the walls and slabs will likely be observed in adjacent slab expansion joints or floor slab cracks that occur beyond the length of the structural dowels. The structural engineer should account for this potential differential settlement through use of sufficient control joints, appropriate reinforcing or other means.

### Floor Slab Construction Considerations

Prior to construction of grade supported slabs, varying levels of remediation may be required to reestablish stable subgrades within slab areas due to construction traffic, rainfall, disturbance, desiccation, etc. As a minimum, the following measures are recommended.

- Confirm that interior trench backfill placed beneath slabs is compacted in accordance with recommendations outlined in the Site Preparation section of this report.
- All floor slab subgrade areas should be moisture conditioned and properly compacted to the recommendations in this report immediately prior to placement of the stone base and concrete.

### Floor Slab Subgrade Preparation

On most project sites, the site grading is generally accomplished early in the construction phase. However, as construction proceeds, the subgrade may be disturbed due to utility excavations, construction traffic, desiccation, rainfall, etc. As a result, the floor slab subgrade may not be suitable for placement of aggregate base and concrete and corrective action will be required. Additional protection, stabilization measures may be necessary and requires specific field evaluation. We recommend floor subgrades be maintained in a relatively moist condition until floor slabs are constructed. If the subgrade should become desiccated prior to construction of floor slabs, the affected material should be removed or the materials scarified, moistened, and recompacted. Upon completion of grading operations in the building areas, care should be taken to maintain the recommended subgrade moisture content and density prior to construction of the equipment building floor slabs.

We recommend the area underlying the floor slab be rough graded and then thoroughly proofrolled with a loaded tandem-axle dump truck prior to final grading and placement of aggregate base. Particular attention should be paid to high traffic areas that were rutted and disturbed earlier and to areas where backfilled trenches are located. Areas where unsuitable conditions are located should be repaired by removing and replacing the affected material with properly compacted fill. All floor slab subgrade areas should be moisture conditioned and properly compacted to the recommendations in this report immediately prior to placement of the aggregate base and concrete.

## GENERAL COMMENTS

Our analysis and opinions are based upon our understanding of the project, the geotechnical conditions in the area, and the data obtained from our site exploration. Natural variations will occur between exploration point locations or due to the modifying effects of construction or weather. The nature and extent of such variations may not become evident until during or after construction. Terracon should be retained as the Geotechnical Engineer, where noted in this report, to provide observation and testing services during pertinent construction phases. If variations appear, we

can provide further evaluation and supplemental recommendations. If variations are noted in the absence of our observation and testing services on-site, we should be immediately notified so that we can provide evaluation and supplemental recommendations.

Our Scope of Services does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is concerned about the potential for such contamination or pollution, other studies should be undertaken.

Our services and any correspondence or collaboration through this system are intended for the sole benefit and exclusive use of our client for specific application to the project discussed and are accomplished in accordance with generally accepted geotechnical engineering practices with no third-party beneficiaries intended. Any third-party access to services or correspondence is solely for information purposes to support the services provided by Terracon to our client. Reliance upon the services and any work product is limited to our client, and is not intended for third parties. Any use or reliance of the provided information by third parties is done solely at their own risk. No warranties, either express or implied, are intended or made.

Site characteristics as provided are for design purposes and not to estimate excavation cost. Any use of our report in that regard is done at the sole risk of the excavating cost estimator as there may be variations on the site that are not apparent in the data that could significantly impact excavation cost. Any parties charged with estimating excavation costs should seek their own site characterization for specific purposes to obtain the specific level of detail necessary for costing. Site safety, and cost estimating including, excavation support, and dewatering requirements/design are the responsibility of others. If changes in the nature, design, or location of the project are planned, our conclusions and recommendations shall not be considered valid unless we review the changes and either verify or modify our conclusions in writing.

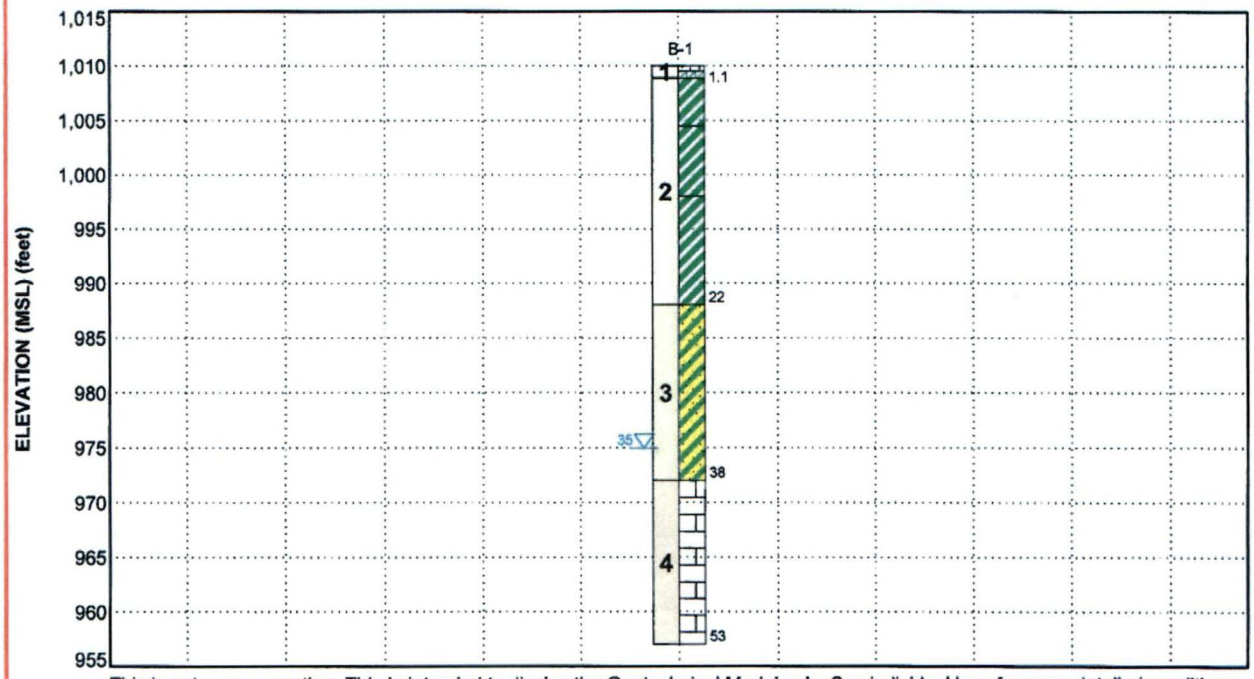
# FIGURES

**Contents:**

## GEOMODEL

**Proposed Bluegrass Cellular Tower at Albany, KY ■ Albany, KY**
**2/20/2019 ■ Terracon Project No. 57185153**

Terracon GeoReport




This is not a cross section. This is intended to display the Geotechnical Model only. See individual logs for more detailed conditions.

| Model Layer | Layer Name | General Description |
|---|---|---|
| 1 | **Surficial cover** | Topsoil and silty clay |
| 2 | **Fat clay** | Red with brown/gray fat clay, trace sand, with chert, very stiff |
| 3 | **Clayey sand** | Brown clayey sand, medium dense to loose |
| 4 | **Limestone** | Olive gray limestone, **very strong** |

**LEGEND**

Topsoil
Silty Clay
Fat Clay
Clayey Sand
Limestone

First Water Observation
Second Water Observation
Third Water Observation

Groundwater levels are temporal. The levels shown are representative of the date and time of our exploration. Significant changes are possible over time. Water levels shown are as measured during and/or after drilling. In some cases, boring advancement methods mask the presence/absence of groundwater. See individual logs for details.

NOTES:
Layering shown on this figure has been developed by the geotechnical engineer for purposes of modeling the subsurface conditions as required for the subsequent geotechnical engineering for this project. Numbers adjacent to soil column indicate depth below ground surface.

# ATTACHMENTS

# EXPLORATION AND TESTING PROCEDURES

## Field Exploration

| Number of Borings | Boring Depth (feet) | Location |
|---|---|---|
| 1 | 53 | Tower |

**Boring Layout and Elevations:** Bluegrass Cellular Inc. personnel provided the boring layout and staked the boring. Approximate elevation was obtained by Landmark Surveying Co., Inc. If elevation and a more precise boring layout are desired, we recommend boring be surveyed following completion of fieldwork.

**Subsurface Exploration Procedures:** We advanced the boring with an ATV-mounted rotary drill rig using continuous flight augers (hollow stem). Four samples were obtained in the upper 10 feet of each boring and at intervals of 5 feet thereafter. In the split-barrel sampling procedure, a standard 2-inch outer diameter split-barrel sampling spoon was driven into the ground by a 140-pound automatic hammer falling a distance of 30 inches. The number of blows required to advance the sampling spoon the last 12 inches of a normal 18-inch penetration is recorded as the Standard Penetration Test (SPT) resistance value. The SPT resistance values, also referred to as N-values, are indicated on the boring log at the test depths. We observed and recorded groundwater levels during drilling and sampling. For safety purposes, the boring was backfilled with auger cuttings after completion.

The sampling depths, penetration distances, and other sampling information was recorded on the field boring log. The samples were placed in appropriate containers and taken to our soil laboratory for testing and classification by a Geotechnical Engineer. Our exploration team prepared the field boring log as part of the drilling operations. The field log included visual classifications of the materials encountered during drilling and our interpretation of the subsurface conditions between samples. The final boring log was prepared from the field log. The final boring log represent the Geotechnical Engineer's interpretation of the field log and include modifications based on observations and tests of the samples in our laboratory.

## Laboratory Testing

The project engineer reviewed the field data and assigned laboratory tests to understand the engineering properties of the various soil and rock strata, as necessary, for this project. Procedural standards noted below are for reference to methodology in general. In some cases, variations to methods were applied because of local practice or professional judgment. Standards noted below include reference to other, related standards. Such references are not necessarily applicable to describe the specific test performed.

- ASTM D2216 Standard Test Methods for Laboratory Determination of Water (Moisture) Content of Soil and Rock by Mass
- ASTM D4318 Standard Test Methods for Liquid Limit, Plastic Limit, and Plasticity Index of Soils
- ASTM D7012 Standard Test Methods for Compressive Strength and Elastic Moduli of Intact Rock Core Specimens under Varying States of Stress and Temperatures

The laboratory testing program often included examination of soil samples by an engineer. Based on the material's texture and plasticity, we described and classified the soil samples in accordance with the Unified Soil Classification System.

Rock classification was conducted using locally accepted practices for engineering purposes; petrographic analysis may reveal other rock types. Rock core samples typically provide an improved specimen for this classification. Boring log rock classification was determined using the Description of Rock Properties.

## PHOTOGRAPHY LOG

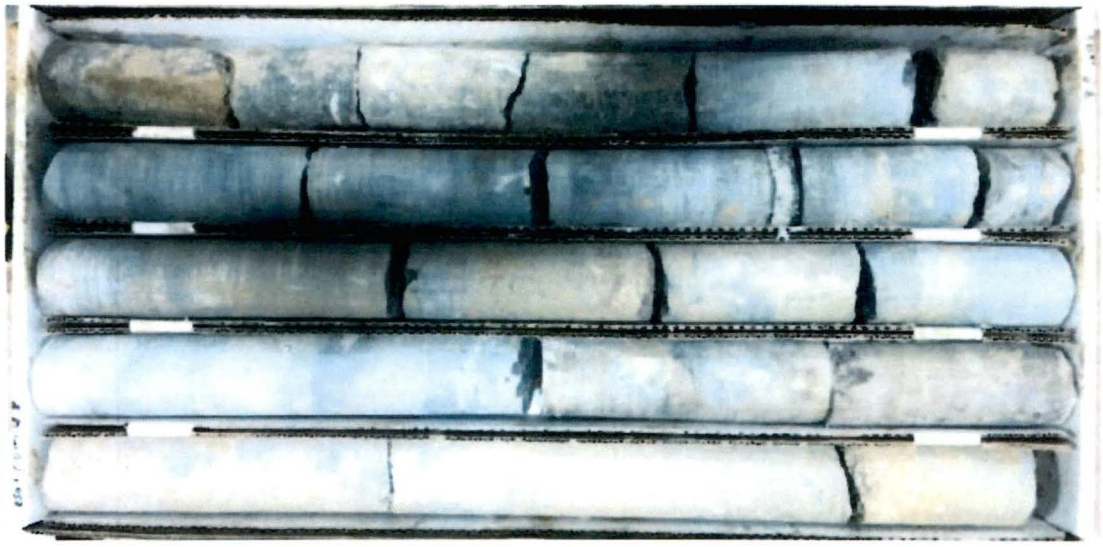


**PHOTO #1 – Rock core sample at B-1 from about 38 to 48 feet below existing grade (top of the core at upper right corner)**


**PHOTO #2 – Rock core sample at B-1 from about 48 to 53 feet below existing grade (bottom of the core at lower left corner)**

## SITE LOCATION AND EXPLORATION PLANS

**Contents:**

Site Location Plan

Exploration Plan

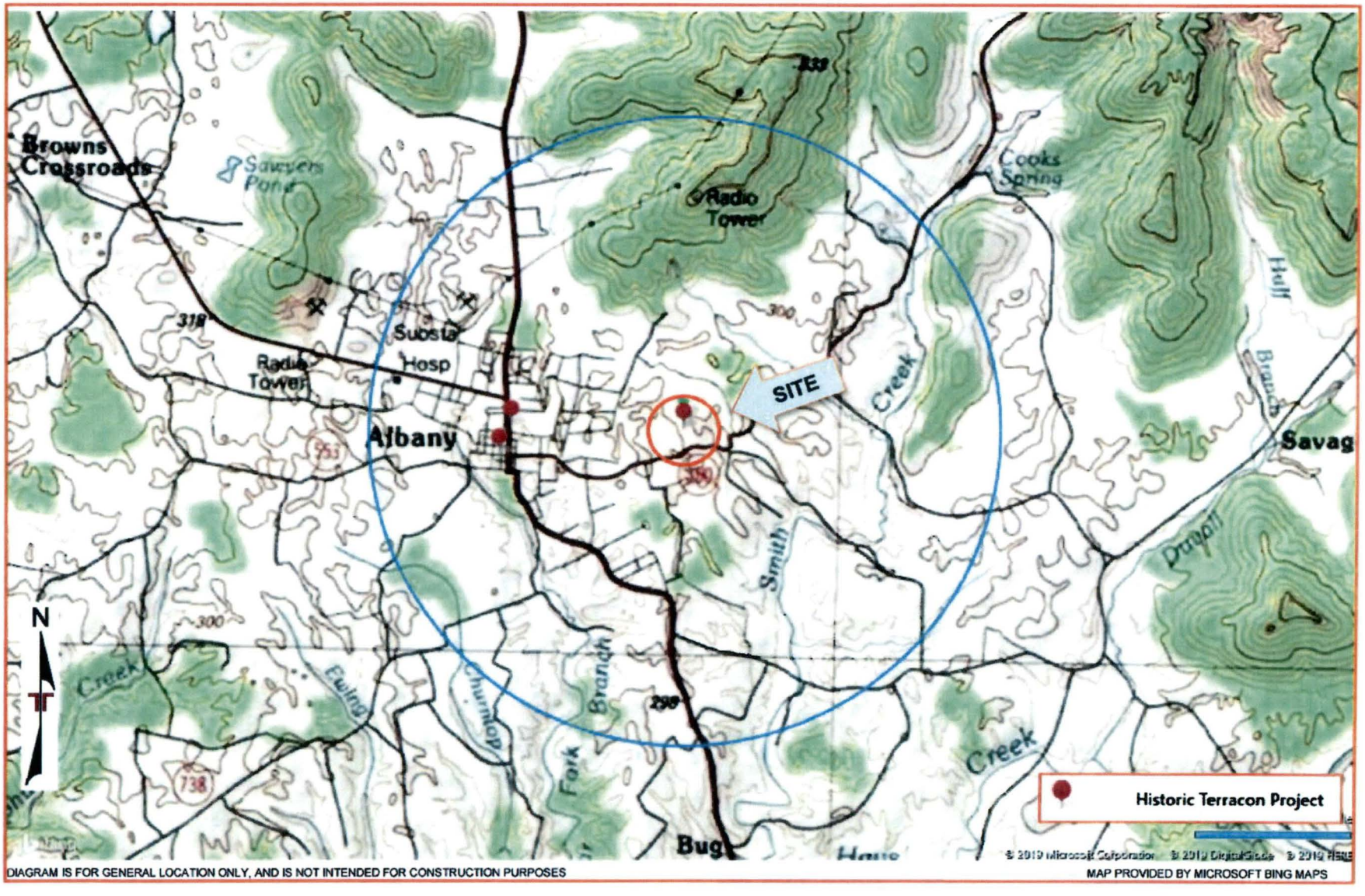
Karst Potential Map

Note: All attachments are one page unless noted above.

## SITE LOCATION

Proposed Bluegrass Cellular Tower at Albany, KY ▪ Albany, Clinton County, KY
February 20, 2019 ▪ Terracon Project No. 57185153

Terracon GeoReport



## EXPLORATION PLAN

Proposed Bluegrass Cellular Tower at Albany, KY ▪ Albany, Clinton County, KY
February 20, 2019 ▪ Terracon Project No. 57185153

Terracon GeoReport


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY MICROSOFT BING MAPS

## KARST POTENTIAL MAP

Proposed Bluegrass Cellular Tower at Albany, KY ■ Albany, Clinton County, KY
February 20, 2019 ■ Terracon Project No. 57185153

Terracon GeoReport


DIAGRAM IS FOR GENERAL LOCATION ONLY, AND IS NOT INTENDED FOR CONSTRUCTION PURPOSES

MAP PROVIDED BY KGS

# EXPLORATION RESULTS

**Contents:**



Note: All attachments are one page unless noted above.

# BORING LOG NO. B-1



**PROJECT:** Proposed Bluegrass Cellular Tower at Albany, KY

**CLIENT:** Bluegrass Cellular Partnership Elizabethtown, KY

**SITE:** 1385 Old Monticello Road Albany, KY

LOCATION See Exploration Plan

Latitude: 36.6929° Longitude: -85.1147°

Approximate Surface Elev.: 1010 (Ft.) +/-

| MODEL LAYER | GRAPHIC LOG | DEPTH | ELEVATION (Ft.) | DEPTH (Ft.) | WATER LEVEL OBSERVATIONS | SAMPLE TYPE | RECOVERY (in.) | FIELD TEST RESULTS | Unconfined Compressive Strength (psi) | LABORATORY HP (tsf) | WATER CONTENT (%) | ATTERBERG LIMITS LL-PL-PI | PERCENT FINES |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 0.5 | 1009.5+/- | | | | | | | | | | |
| | | 1.1 | 1009+/- | | | | | | | | | | |
| | | | **TOPSOIL** | | | | | | | | | | |
| | | | **SILTY CLAY (CL-ML)**, gray to dark gray, moist, stiff | | | | 18 | 2-6-10 N=16 | | 2.25 (HP) | 21 | | |
| | | 5.5 | 1004.5+/- | | | | | | | | | | |
| | | | **FAT CLAY (CH)**, trace sand, red with brown, moist, very stiff, with chert, with black oxide staining | 5 | | | 18 | 3-8-11 N=19 | | 4.25 (HP) | 27 | 53-24-29 | |
| | | | | | | | 12 | 6-9-15 N=24 | | 2.75 (HP) | 26 | | |
| | | | **FAT CLAY (CH)**, trace sand, red and brown, moist, very stiff, laminated, with chert | 10 | | | 10 | 8-10-14 N=24 | | 2.75 (HP) | 30 | | |
| 2 | | 12.0 | 998+/- | | | | | | | | | | |
| | | | **FAT CLAY (CH)**, trace sand, red and gray, moist, very stiff, with chert, with black oxide staining | 15 | | | 9 | 11-8-16 N=24 | | 3.0 (HP) | 24 | 61-25-36 | |
| | | | | 20 | | | 6 | 9-11-12 N=23 | | 2.0 (HP) | 21 | | |
| | | 22.0 | 988+/- | | | | | | | | | | |
| | | | **CLAYEY SAND (SC)**, brown, with black oxide staining, medium dense to loose | 25 | | | 10 | 8-8-14 N=22 | | 1.0 (HP) | 24 | | |
| 3 | | | | 30 | | | 8 | 10-7-12 N=19 | | 0.25 (HP) | 31 | | |
| | | | | 35 | ▽ | | 12 | 0-3-3 N=6 | | 0.25 (HP) | 30 | 28-15-13 | 44 |
| | | 38.0 | ***Auger Refusal at 38 feet*** 972+/- | | | | | | | | | | |
| | | | **LIMESTONE**, olive gray, moderate spacing, unweathered, very strong | 40 | | | | | 15,370 | | | | |
| | | | - shale seam, 1 inch | 45 | | | | RQD=92% | | | | | |
| 4 | | | | 50 | | | | | | | | | |
| | | 53.0 | 957+/- | | | | | | | | | | |
| | | | ***Boring Terminated at 53 Feet*** | | | | | | | | | | |

Stratification lines are approximate. In-situ, the transition may be gradual.

Hammer Type: Automatic

Advancement Method:
3-1/4 HSA

Abandonment Method:
Boring backfilled with auger cuttings upon completion.

See Exploration and Testing Procedures for a description of field and laboratory procedures used and additional data (If any).

See Supporting Information for explanation of symbols and abbreviations.

Elevations were provided by Landmark Surveying Co., Inc.

Notes:

**WATER LEVEL OBSERVATIONS**

▽ *While drilling*

Terracon
13050 Eastgate Park Way, Ste 101
Louisville, KY

Boring Started: 01-10-2018 | Boring Completed: 01-10-2018

Drill Rig: CME-750 | Driller: Rob Sizemore

Project No.: 57185153

THIS BORING LOG IS NOT VALID IF SEPARATED FROM ORIGINAL REPORT. GEO SMART LOG-NO WELL 57185153 PROPOSED BLUEGRAS.GPJ MODELLAYER.GPJ 2/19/19

# SUMMARY OF LABORATORY RESULTS

| Borehole No. | Depth (ft.) | USCS Soil Class. | In-Situ Properties | | Classification | | | | Expansion Testing | | | | | Corrosivity | | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Dry Density (pcf) | Water Content (%) | Passing #200 Sieve (%) | Atterberg Limits | | | Dry Density (pcf) | Water Content (%) | Surcharge (psf) | Expansion (%) | Expansion Index EI 50 | pH | Resistivity (ohm-cm) | Sulfates (ppm) | |
| | | | | | | LL | PL | PI | | | | | | | | | |
| B-1 | 1 | | | 21 | | | | | | | | | | | | | 2 |
| B-1 | 3.5 | CH | | 27 | | 53 | 24 | 29 | | | | | | | | | |
| B-1 | 6 | | | 26 | | | | | | | | | | | | | 2 |
| B-1 | 8.5 | | | 30 | | | | | | | | | | | | | 2 |
| B-1 | 13.5 | CH | | 24 | | 61 | 25 | 36 | | | | | | | | | |
| B-1 | 18.5 | | | 21 | | | | | | | | | | | | | 2 |
| B-1 | 23.5 | | | 24 | | | | | | | | | | | | | 2 |
| B-1 | 28.5 | | | 31 | | | | | | | | | | | | | 2 |
| B-1 | 33.5 | SC | | 30 | 44 | 28 | 15 | 13 | | | | | | | | | |

**REMARKS**

1. Dry Density and/or moisture determined from one or more rings of a multi-ring sample.
2. Visual Classification.
3. Submerged to approximate saturation.
4. Expansion Index in accordance with ASTM D4829-95.
5. Air-Dried Sample

PROJECT: Proposed Bluegrass Cellular Tower at Albany, KY

SITE: 1385 Old Monticello Road
Albany, KY

Terracon
13050 Eastgate Park Way, Ste 101
Louisville, KY
PH. 502-456-1256 FAX. 502-456-1278

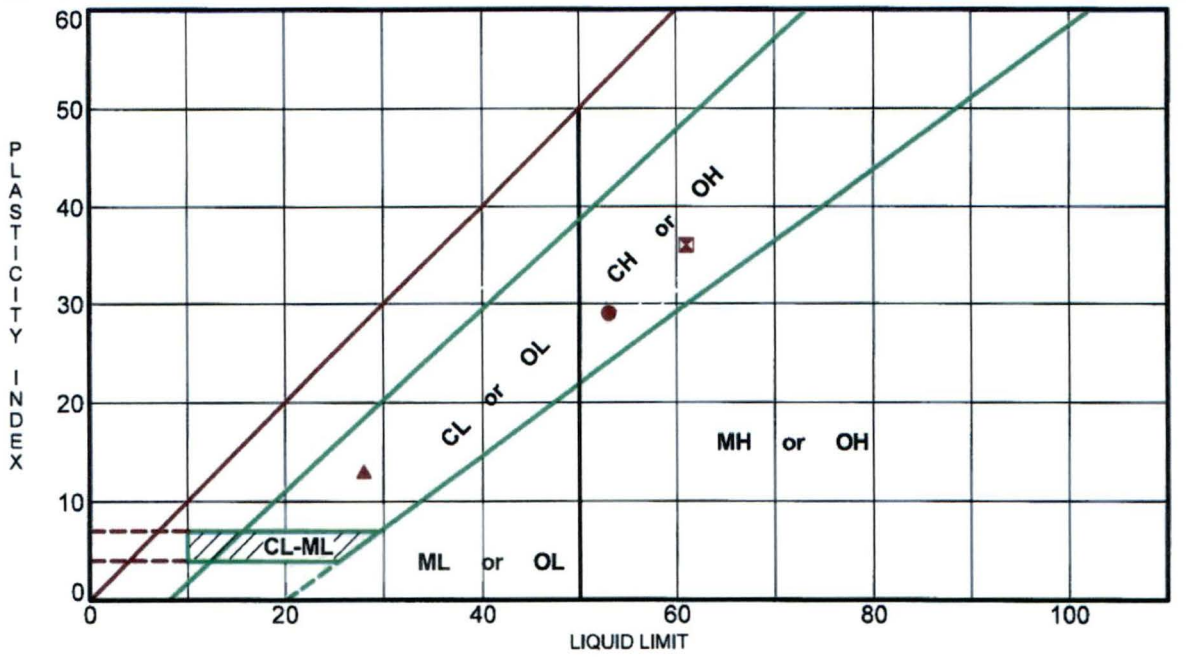
PROJECT NUMBER: 57185153

CLIENT: Bluegrass Cellular Partnership
Elizabethtown, KY

EXHIBIT: B-1

# ATTERBERG LIMITS RESULTS

**ASTM D4318**




| Boring ID | | Depth | LL | PL | PI | Fines | USCS | Description |
|---|---|---|---|---|---|---|---|---|
| ● | B-1 | 3.5 - 5 | 53 | 24 | 29 | | CH | FAT CLAY |
| ⊠ | B-1 | 13.5 - 15 | 61 | 25 | 36 | | CH | FAT CLAY |
| ▲ | B-1 | 33.5 - 35 | 28 | 15 | 13 | 44 | SC | CLAYEY SAND |

PROJECT: Proposed Bluegrass Cellular Tower at Albany, KY

SITE: Old Monticello Road Albany, KY

Terracon
13050 Eastgate Park Way, Ste 101
Louisville, KY

PROJECT NUMBER: 57185153

CLIENT: Bluegrass Cellular Partnership Elizabethtown, KY

## SUPPORTING INFORMATION

**Contents:**



Note: All attachments are one page unless noted above.

# GENERAL NOTES

## DESCRIPTION OF SYMBOLS AND ABBREVIATIONS

**SAMPLING**


Auger


Split Spoon


Shelby Tube


Macro Core


Ring Sampler


Rock Core


Grab Sample


No Recovery

**WATER LEVEL**


Water Initially Encountered


Water Level After a Specified Period of Time


Water Level After a Specified Period of Time

Water levels indicated on the soil boring logs are the levels measured in the borehole at the times indicated. Groundwater level variations will occur over time. In low permeability soils, accurate determination of groundwater levels is not possible with short term water level observations.

**FIELD TESTS**

| | |
|---|---|
| (HP) | Hand Penetrometer |
| (T) | Torvane |
| (b/f) | Standard Penetration Test (blows per foot) |
| (PID) | Photo-Ionization Detector |
| (OVA) | Organic Vapor Analyzer |

## DESCRIPTIVE SOIL CLASSIFICATION

Soil classification is based on the Unified Soil Classification System. Coarse Grained Soils have more than 50% of their dry weight retained on a #200 sieve; their principal descriptors are: boulders, cobbles, gravel or sand. Fine Grained Soils have less than 50% of their dry weight retained on a #200 sieve; they are principally described as clays if they are plastic, and silts if they are slightly plastic or non-plastic. Major constituents may be added as modifiers and minor constituents may be added according to the relative proportions based on grain size. In addition to gradation, coarse-grained soils are defined on the basis of their in-place relative density and fine-grained soils on the basis of their consistency.

## LOCATION AND ELEVATION NOTES

Unless otherwise noted, Latitude and Longitude are approximately determined using a hand-held GPS device. The accuracy of such devices is variable. Surface elevation data annotated with +/- indicates that no actual topographical survey was conducted to confirm the surface elevation. Instead, the surface elevation was approximately determined from topographic maps of the area.

**STRENGTH TERMS**

| RELATIVE DENSITY OF COARSE-GRAINED SOILS (More than 50% retained on No. 200 sieve.) Density determined by Standard Penetration Resistance Includes gravels, sands and silts. | | | CONSISTENCY OF FINE-GRAINED SOILS (50% or more passing the No. 200 sieve.) Consistency determined by laboratory shear strength testing, field visual-manual procedures or standard penetration resistance | | | |
|---|---|---|---|---|---|---|
| **Descriptive Term (Density)** | **Standard Penetration or N-Value Blows/Ft.** | **Ring Sampler Blows/Ft.** | **Descriptive Term (Consistency)** | **Unconfined Compressive Strength, Qu, psf** | **Standard Penetration or N-Value Blows/Ft.** | **Ring Sampler Blows/Ft.** |
| Very Loose | 0 - 3 | 0 - 6 | Very Soft | less than 500 | 0 - 1 | < 3 |
| Loose | 4 - 9 | 7 - 18 | Soft | 500 to 1,000 | 2 - 4 | 3 - 4 |
| Medium Dense | 10 - 29 | 19 - 58 | Medium-Stiff | 1,000 to 2,000 | 4 - 8 | 5 - 9 |
| Dense | 30 - 50 | 59 - 98 | Stiff | 2,000 to 4,000 | 8 - 15 | 10 - 18 |
| Very Dense | > 50 | ≥ 99 | Very Stiff | 4,000 to 8,000 | 15 - 30 | 19 - 42 |
| | | | Hard | > 8,000 | > 30 | > 42 |

### RELATIVE PROPORTIONS OF SAND AND GRAVEL

| Descriptive Term(s) of other constituents | Percent of Dry Weight |
|---|---|
| Trace | < 15 |
| With | 15 - 29 |
| Modifier | > 30 |

### GRAIN SIZE TERMINOLOGY

| Major Component of Sample | Particle Size |
|---|---|
| Boulders | Over 12 in. (300 mm) |
| Cobbles | 12 in. to 3 in. (300mm to 75mm) |
| Gravel | 3 in. to #4 sieve (75mm to 4.75 mm) |
| Sand | #4 to #200 sieve (4.75mm to 0.075mm |
| Silt or Clay | Passing #200 sieve (0.075mm) |

### RELATIVE PROPORTIONS OF FINES

| Descriptive Term(s) of other constituents | Percent of Dry Weight |
|---|---|
| Trace | < 5 |
| With | 5 - 12 |
| Modifier | > 12 |

### PLASTICITY DESCRIPTION

| Term | Plasticity Index |
|---|---|
| Non-plastic | 0 |
| Low | 1 - 10 |
| Medium | 11 - 30 |
| High | > 30 |

Terracon

Exhibit D-1

## UNIFIED SOIL CLASSIFICATION SYSTEM

Terracon GeoReport

| Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests [A] | | | | | Soil Classification | |
|---|---|---|---|---|---|---|
| | | | | | Group Symbol | Group Name [B] |
| **Coarse-Grained Soils:** More than 50% retained on No. 200 sieve | **Gravels:** More than 50% of coarse fraction retained on No. 4 sieve | **Clean Gravels:** Less than 5% fines [C] | $Cu \geq 4$ and $1 \leq Cc \leq 3$ [E] | | GW | Well-graded gravel [F] |
| | | | $Cu < 4$ and/or [$Cc<1$ or $Cc>3.0$] [E] | | GP | Poorly graded gravel [F] |
| | | **Gravels with Fines:** More than 12% fines [C] | Fines classify as ML or MH | | GM | Silty gravel [F, G, H] |
| | | | Fines classify as CL or CH | | GC | Clayey gravel [F, G, H] |
| | **Sands:** 50% or more of coarse fraction passes No. 4 sieve | **Clean Sands:** Less than 5% fines [D] | $Cu \geq 6$ and $1 \leq Cc \leq 3$ [E] | | SW | Well-graded sand [I] |
| | | | $Cu < 6$ and/or [$Cc<1$ or $Cc>3.0$] [E] | | SP | Poorly graded sand [I] |
| | | **Sands with Fines:** More than 12% fines [D] | Fines classify as ML or MH | | SM | Silty sand [G, H, I] |
| | | | Fines classify as CL or CH | | SC | Clayey sand [G, H, I] |
| **Fine-Grained Soils:** 50% or more passes the No. 200 sieve | **Silts and Clays:** Liquid limit less than 50 | **Inorganic:** | PI > 7 and plots on or above "A" | | CL | Lean clay [K, L, M] |
| | | | PI < 4 or plots below "A" line [J] | | ML | Silt [K, L, M] |
| | | **Organic:** | Liquid limit - oven dried / Liquid limit - not dried | < 0.75 | OL | Organic clay [K, L, M, N] / Organic silt [K, L, M, O] |
| | **Silts and Clays:** Liquid limit 50 or more | **Inorganic:** | PI plots on or above "A" line | | CH | Fat clay [K, L, M] |
| | | | PI plots below "A" line | | MH | Elastic Silt [K, L, M] |
| | | **Organic:** | Liquid limit - oven dried / Liquid limit - not dried | < 0.75 | OH | Organic clay [K, L, M, P] / Organic silt [K, L, M, Q] |
| **Highly organic soils:** | Primarily organic matter, dark in color, and organic odor | | | | PT | Peat |

[A] Based on the material passing the 3-inch (75-mm) sieve.

[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

[D] Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay.

[E] $Cu = D_{60}/D_{10}$ $\quad Cc = \dfrac{(D_{30})^2}{D_{10} \times D_{60}}$

[F] If soil contains ≥ 15% sand, add "with sand" to group name.

[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

[H] If fines are organic, add "with organic fines" to group name.

[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.

[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.

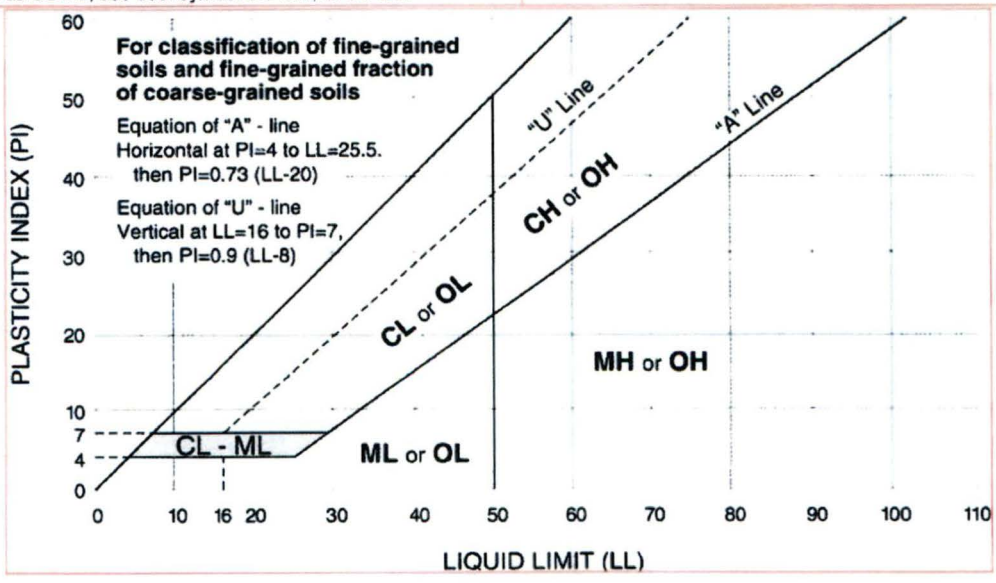
[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.

[N] PI ≥ 4 and plots on or above "A" line.

[O] PI < 4 or plots below "A" line.

[P] PI plots on or above "A" line.

[Q] PI plots below "A" line.



## DESCRIPTION OF ROCK PROPERTIES

Terracon GeoReport

| WEATHERING | |
|---|---|
| **Term** | **Description** |
| **Unweathered** | No visible sign of rock material weathering, perhaps slight discoloration on major discontinuity surfaces. |
| **Slightly weathered** | Discoloration indicates weathering of rock material and discontinuity surfaces. All the rock material may be discolored by weathering and may be somewhat weaker externally than in its fresh condition. |
| **Moderately weathered** | Less than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present either as a continuous framework or as corestones. |
| **Highly weathered** | More than half of the rock material is decomposed and/or disintegrated to a soil. Fresh or discolored rock is present either as a discontinuous framework or as corestones. |
| **Completely weathered** | All rock material is decomposed and/or disintegrated to soil. The original mass structure is still largely intact. |
| **Residual soil** | All rock material is converted to soil. The mass structure and material fabric are destroyed. There is a large change in volume, but the soil has not been significantly transported. |

| STRENGTH OR HARDNESS | | |
|---|---|---|
| **Description** | **Field Identification** | **Uniaxial Compressive Strength, psi (MPa)** |
| **Extremely weak** | Indented by thumbnail | 40-150 (0.3-1) |
| **Very weak** | Crumbles under firm blows with point of geological hammer, can be peeled by a pocket knife | 150-700 (1-5) |
| **Weak rock** | Can be peeled by a pocket knife with difficulty, shallow indentations made by firm blow with point of geological hammer | 700-4,000 (5-30) |
| **Medium strong** | Cannot be scraped or peeled with a pocket knife, specimen can be fractured with single firm blow of geological hammer | 4,000-7,000 (30-50) |
| **Strong rock** | Specimen requires more than one blow of geological hammer to fracture it | 7,000-15,000 (50-100) |
| **Very strong** | Specimen requires many blows of geological hammer to fracture it | 15,000-36,000 (100-250) |
| **Extremely strong** | Specimen can only be chipped with geological hammer | >36,000 (>250) |

| DISCONTINUITY DESCRIPTION | | | |
|---|---|---|---|
| **Fracture Spacing (Joints, Faults, Other Fractures)** | | **Bedding Spacing (May Include Foliation or Banding)** | |
| **Description** | **Spacing** | **Description** | **Spacing** |
| **Extremely close** | < ¾ in (<19 mm) | **Laminated** | < ½ in (<12 mm) |
| **Very close** | ¾ in – 2-1/2 in (19 - 60 mm) | **Very thin** | ½ in – 2 in (12 – 50 mm) |
| **Close** | 2-1/2 in – 8 in (60 – 200 mm) | **Thin** | 2 in – 1 ft. (50 – 300 mm) |
| **Moderate** | 8 in – 2 ft. (200 – 600 mm) | **Medium** | 1 ft. – 3 ft. (300 – 900 mm) |
| **Wide** | 2 ft. – 6 ft. (600 mm – 2.0 m) | **Thick** | 3 ft. – 10 ft. (900 mm – 3 m) |
| **Very Wide** | 6 ft. – 20 ft. (2.0 – 6 m) | **Massive** | > 10 ft. (3 m) |

Discontinuity Orientation (Angle): Measure the angle of discontinuity relative to a plane perpendicular to the longitudinal axis of the core. (For most cases, the core axis is vertical; therefore, the plane perpendicular to the core axis is horizontal.) For example, a horizontal bedding plane would have a 0-degree angle.

| ROCK QUALITY DESIGNATION (RQD) [1] | |
|---|---|
| **Description** | **RQD Value (%)** |
| **Very Poor** | 0 - 25 |
| **Poor** | 25 – 50 |
| **Fair** | 50 – 75 |
| **Good** | 75 – 90 |
| **Excellent** | 90 - 100 |

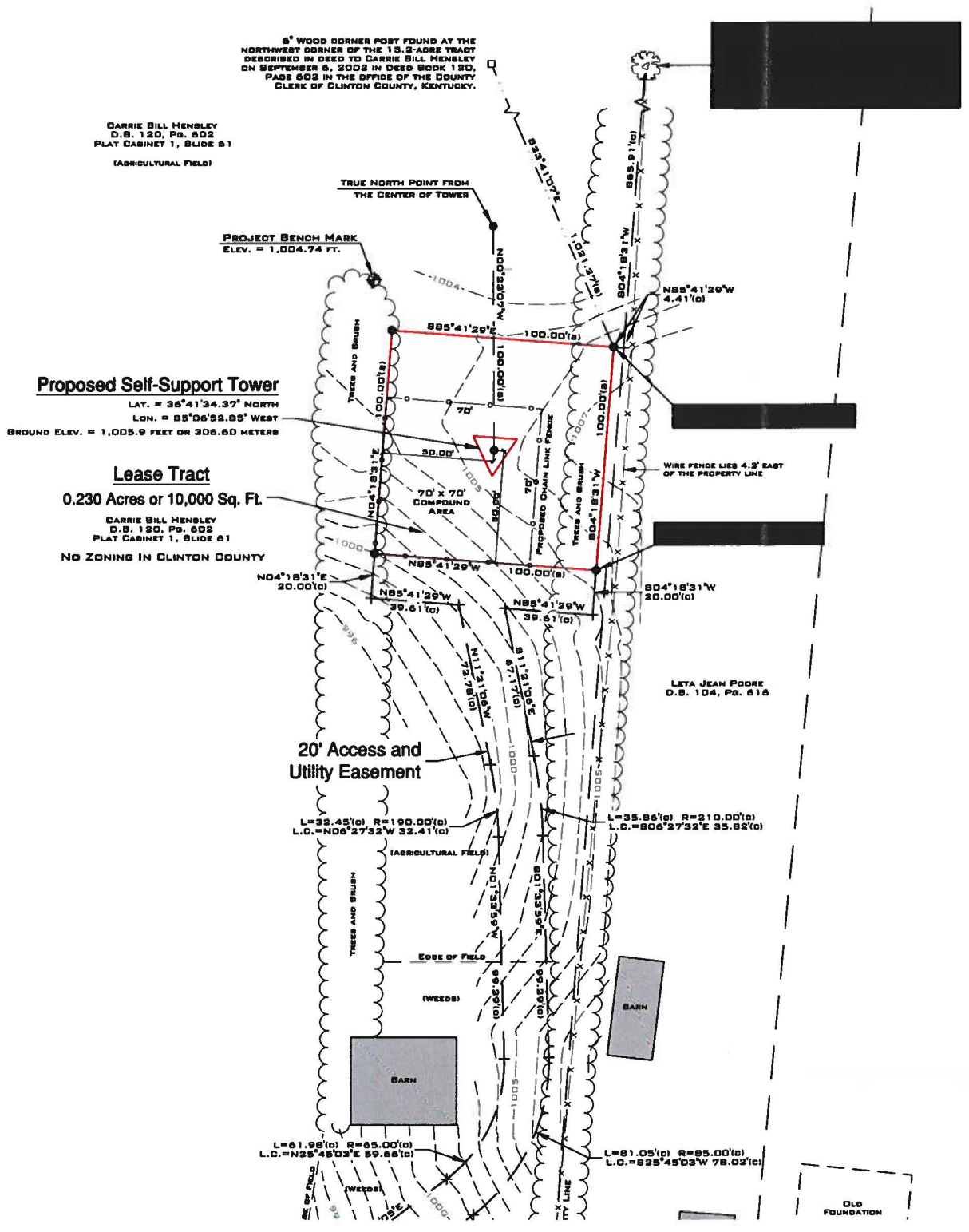
1 The combined length of all sound and intact core segments equal to or greater than 4 inches in length, expressed as a percentage of the total core run length.

Reference: U.S. Department of Transportation, Federal Highway Administration, Publication No FHWA-NHI-10-034, December 2009 Technical Manual for Design and Construction of Road Tunnels – Civil Elements

# SITE: ALBANY CAPACITY 2

## Lease Boundary and Topographic Survey

## Clinton County, Kentucky




### GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )
1 INCH = 30 FT.
CONTOUR INTERVAL = 1-FOOT


### Legend

- 5/8" REBAR, 24" IN LENGTH, SET FLUSH WITH A SURVEY CAP INSCRIBED "D.L. HELMS PLS 3388"
- 5/8" REBAR SET FLUSH - NO SURVEY CAP
- 20" DOUBLE MAPLE AT A FENCE INTERSECTION
- 6" WOOD CORNER POST AT A FENCE INTERSECTION
- CALCULATED LOCATION
- LEASE BOUNDARIES
- APPARENT RIGHT OF WAY
- TIE COURSE (LEAD-IN)
- NEW EASEMENT BOUNDARIES
- 990 EXISTING CONTOUR
- WIRE FENCE
- UTILITY POLE
- GUY ANCHOR
- XXXX UTILITY AS NOTED

### Engineer's Certification

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAT IS IN COMPLIANCE WITH REQUIREMENTS ESTABLISHED BY KRS 100.9865 (8).

HOGAN L. HELMS, P.E. 33385

MAY 29, 2019
DATE

STATE OF KENTUCKY · HOGAN L HELMS · 33385 · LICENSED PROFESSIONAL ENGINEER

### Land Surveyor's Certification

I HEREBY CERTIFY THAT THIS PLAT HAS BEEN COMPILED FROM A SURVEY MADE UPON THE GROUND UNDER MY DIRECT SUPERVISION ON JANUARY 16, 2019 BY THE METHOD OF REAL TIME KINEMATIC GPS SURVEY AND A RANDOM TRAVERSE WITH SIDESHOTS. THE RELATIVE POSITIONAL ACCURACY OF ANY POINT ON THIS SURVEY IS BETTER THAN ± 0.10 FEET + 200 PPM. THIS PLAT REPRESENTS A RURAL BOUNDARY SURVEY AND COMPLIES WITH THE REQUIREMENTS OF 201 KAR 18:150.

DARREN L. HELMS, P.L.S. 3388

MAY 29, 2019
DATE

STATE OF KENTUCKY · Darren L. Helms · 3388 · LICENSED PROFESSIONAL LAND SURVEYOR

### Basis of Bearings

THE BEARING SYSTEM OF THIS SURVEY IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON JANUARY 8, 2019 USING THE KENTUCKY TRANSPORTATION CABINET'S KYCORS NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

### Tower Location Information

DESIGNATION: ALBANY CAPACITY 2
SITE ID#: NONE
HORIZONTAL DATUM: NAD 83 (2011)
LATITUDE: 36°41'34.37" NORTH
LONGITUDE: 85°06'52.85" WEST
VERTICAL DATUM: NAVD 88
GROUND ELEVATION: 1,005.9 FEET (306.60 M)

STATE PLANE COORDINATES
NORTHING: 1,771,949.88 FEET (540,091.343 M)
EASTING: 1,626,694.13 FEET (558,777.464 M)

### Landowner Information

LANDOWNER: CARRIE BILL ASBERRY (HENSLEY)
ADDRESS: 810 E. CUMBERLAND STREET ALBANY, KY 42602

CONTACT PERSON: CARRIE ASBERRY
PHONE NUMBER: 606-688-5469

PVA MAP NUMBER: 037-00-00-012.00

### Project Bench Mark

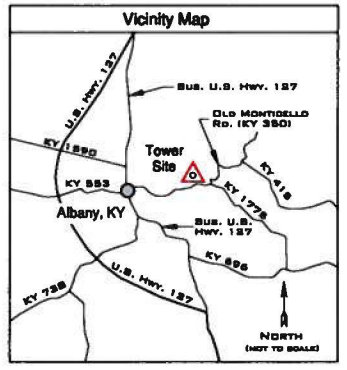
NORTHING: 1,772,026 FEET (540,115 M)
EASTING: 1,626,640 FEET (558,761 M)
ELEVATION: 1,004.74 FEET (306.245 M)

DESCRIPTION: A 5/8" REBAR SET 4" ABOVE GRADE AT THE NORTH END OF A ROW OF TREES AND BRUSH. THE REBAR IS LOCATED 93' NORTHWEST OF THE CENTER OF THE TOWER.

### Flood Plain Statement

ACCORDING TO THE FLOOD INSURANCE RATE MAP (FIRM) FOR CLINTON COUNTY, KENTUCKY AND INCORPORATED AREAS, MAP NO. 21053C01500, DATED JULY 28, 2010, THE SUBJECT SITE LIES WITHIN "OTHER AREAS - ZONE X". THIS ZONE IS DEFINED AS "AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN".

### Vicinity Map




### Directions to the Site

FROM ELIZABETHTOWN, KENTUCKY: TRAVEL SOUTH ON I-65 FOR 50 MILES TO THE LOUIE B. NUNN CUMBERLAND PARKWAY; TRAVEL EAST ON THE CUMBERLAND PARKWAY FOR 14 MILES TO EXIT 14 AND KENTUCKY HIGHWAY 90 ON THE SOUTHEAST SIDE OF GLASGOW; TRAVEL EAST ON KENTUCKY HIGHWAY 90 FOR 54 MILES TO U.S. HIGHWAY 127; TURN RIGHT AND TRAVEL SOUTH ON U.S. HIGHWAY 127 FOR 1.7 MILES TO BUSINESS U.S. HIGHWAY 127; TURN LEFT ONTO BUSINESS U.S. HIGHWAY 127 AND CONTINUE SOUTH FOR 2.8 MILES TO CUMBERLAND STREET IN DOWNTOWN ALBANY; TURN LEFT ONTO CUMBERLAND STREET (CHANGES TO OLD MONTICELLO ROAD OR KENTUCKY HIGHWAY 350 AFTER LEAVING ALBANY) AND TRAVEL EAST FOR 1.3 MILES TO THE TOWER ACCESS DRIVE ON THE NORTH SIDE OF THE ROAD; TURN LEFT ONTO THE DRIVE AND TRAVEL NORTH FOR 880 FEET (PASSING THROUGH A BARN LOT) TO THE TOWER SITE ON A RIDGE IN AN AGRICULTURAL FIELD.

### Lease Boundary and Easement Description

A TRACT OF LAND THAT IS LOCATED 1,700 FEET NORTHEASTERLY OF THE INTERSECTION OF OLD MONTICELLO ROAD (KENTUCKY HIGHWAY 350) AND GEORGE SLOAN ROAD, ABOUT 1.2 MILES EAST OF DOWNTOWN ALBANY, CLINTON COUNTY, KENTUCKY; SAID TRACT BEING DESCRIBED AS FOLLOWS:

COMMENCING AT A 20-INCH DOUBLE MAPLE FOUND AT A FENCE INTERSECTION THAT MARKS THE NORTHEAST CORNER OF THE 13.2-ACRE TRACT DESCRIBED IN DEED TO CARRIE BILL HENSLEY ON SEPTEMBER 6, 2002 IN DEED BOOK 120, PAGE 602 IN THE OFFICE OF THE COUNTY CLERK OF CLINTON COUNTY, KENTUCKY; THENCE, ALONG THE EAST BOUNDARY OF SAID 13.2-ACRE TRACT, SOUTH 04 DEGREES 18 MINUTES 31 SECONDS WEST 885.91 FEET; THENCE, LEAVING SAID EAST BOUNDARY, NORTH 85 DEGREES 41 MINUTES 29 SECONDS WEST 4.41 FEET TO A 5/8-INCH REBAR SET FLUSH WITH A SURVEY CAP INSCRIBED "D.L. HELMS PLS 3386" (REFERRED TO AS A REBAR SET IN THE REMAINDER OF THIS DESCRIPTION) AT THE POINT OF BEGINNING OF THIS DESCRIPTION: THENCE SOUTH 04 DEGREES 18 MINUTES 31 SECONDS WEST 100.00 FEET TO A REBAR SET FLUSH; THENCE NORTH 85 DEGREES 41 MINUTES 29 SECONDS WEST 100.00 FEET TO A REBAR SET FLUSH; THENCE NORTH 04 DEGREES 18 MINUTES 31 SECONDS EAST 100.00 FEET TO A REBAR SET FLUSH; THENCE SOUTH 85 DEGREES 41 MINUTES 29 SECONDS EAST 100.00 FEET TO THE POINT OF BEGINNING AND CONTAINING 0.230 ACRES (10,000 SQUARE FEET), MORE OR LESS.

TOGETHER WITH AN ACCESS AND UTILITY EASEMENT FROM THE ABOVE-DESCRIBED 0.230-ACRE LEASE TRACT TO OLD MONTICELLO ROAD (KENTUCKY HIGHWAY 350); SAID EASEMENT BEING DESCRIBED AS FOLLOWS: BEGINNING AT A 5/8-INCH REBAR SET FLUSH WITH A SURVEY CAP INSCRIBED "D.L. HELMS PLS 3386", WHICH MARKS THE SOUTHEAST CORNER OF THE ABOVE-DESCRIBED 0.230-ACRE LEASE TRACT; THENCE SOUTH 04 DEGREES 18 MINUTES 31 SECONDS WEST 20.00 FEET; THENCE NORTH 85 DEGREES 41 MINUTES 29 SECONDS WEST 39.61 FEET; THENCE SOUTH 11 DEGREES 21 MINUTES 06 SECONDS EAST 67.17 FEET; THENCE SOUTHEASTERLY 35.86 FEET ALONG AN ARC TO THE RIGHT AND HAVING A RADIUS OF 210.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF SOUTH 06 DEGREES 27 MINUTES 32 SECONDS EAST AND A LENGTH OF 35.82 FEET; THENCE SOUTH 01 DEGREE 33 MINUTES 59 SECONDS EAST 99.29 FEET; THENCE SOUTHWESTERLY 61.05 FEET ALONG AN ARC TO THE RIGHT AND HAVING A RADIUS OF 85.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF SOUTH 25 DEGREES 45 MINUTES 03 SECONDS WEST AND A LENGTH OF 76.02 FEET; THENCE SOUTH 53 DEGREES 04 MINUTES 05 SECONDS WEST 77.17 FEET; THENCE SOUTHWESTERLY 59.35 FEET ALONG AN ARC TO THE LEFT AND HAVING A RADIUS OF 65.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF SOUTH 27 DEGREES 20 MINUTES 51 SECONDS EAST AND A LENGTH OF 56.42 FEET; THENCE SOUTH 01 DEGREE 37 MINUTES 36 SECONDS WEST 113.82 FEET; THENCE SOUTHEASTERLY 49.37 FEET ALONG AN ARC TO THE LEFT AND HAVING A RADIUS OF 65.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF SOUTH 20 DEGREES 05 MINUTES 18 SECONDS EAST AND A LENGTH OF 48.10 FEET; THENCE SOUTH 41 DEGREES 48 MINUTES 11 SECONDS EAST 35.17 FEET TO THE NORTHWESTERN RIGHT OF WAY OF OLD MONTICELLO ROAD (25 FEET FROM THE CENTER OF THE ROAD); THENDE, ALONG SAID RIGHT OF WAY, SOUTH 48 DEGREES 11 MINUTES 29 SECONDS WEST 20.00 FEET; THENCE NORTH 41 DEGREES 48 MINUTES 11 SECONDS WEST 35.17 FEET; THENCE NORTHWESTERLY 64.43 FEET ALONG AN ARC TO THE RIGHT AND HAVING A RADIUS OF 85.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF NORTH 20 DEGREES 05 MINUTES 18 SECONDS WEST AND A LENGTH OF 62.90 FEET; THENCE NORTH 01 DEGREE 37 MINUTES 36 SECONDS EAST 113.82 FEET; THENCE NORTHEASTERLY 76.31 FEET ALONG AN ARC TO THE RIGHT AND HAVING A RADIUS OF 85.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF NORTH 27 DEGREES 20 MINUTES 51 SECONDS EAST AND A LENGTH OF 73.75 FEET; THENCE NORTH 53 DEGREES 04 MINUTES 05 SECONDS EAST 77.17 FEET; THENCE NORTHEASTERLY 61.98 FEET ALONG AN ARC TO THE LEFT AND HAVING A RADIUS OF 65.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF NORTH 25 DEGREES 45 MINUTES 03 SECONDS EAST AND A LENGTH OF 59.66 FEET; THENCE NORTH 01 DEGREE 33 MINUTES 59 SECONDS WEST 99.29 FEET; THENCE NORTHWESTERLY 38.45 FEET ALONG AN ARC TO THE LEFT AND HAVING A RADIUS OF 190.00 FEET AND SUBTENDED BY A LONG CHORD HAVING A BEARING OF NORTH 06 DEGREES 27 MINUTES 32 SECONDS WEST AND A LENGTH OF 38.41 FEET; THENCE NORTH 11 DEGREES 21 MINUTES 06 SECONDS WEST 72.76 FEET; THENCE NORTH 85 DEGREES 41 MINUTES 29 SECONDS WEST 39.61 FEET; THENCE NORTH 04 DEGREES 18 MINUTES 31 SECONDS EAST 20.00 FEET TO A 5/8-INCH REBAR SET FLUSH WITH SAID HELMS SURVEY CAP AT THE SOUTHWEST CORNER OF THE ABOVE-DESCRIBED 0.230-ACRE LEASE TRACT; THENCE SOUTH 85 DEGREES 41 MINUTES 29 SECONDS EAST 100.00 FEET TO THE POINT OF BEGINNING.

THE BEARING SYSTEM OF THIS DESCRIPTION IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON JANUARY 8, 2019 USING THE KENTUCKY TRANSPORTATION CABINET'S KYCORS NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

THIS DESCRIPTION IS BASED UPON A SURVEY COMPLETED BY LANDMARK SURVEYING CO., INC. AND CERTIFIED BY DARREN L. HELMS, P.L.S. 3386, ON JANUARY 16, 2019.

SOURCE OF TITLE: BEING A PORTION OF AND LYING ENTIRELY WITHIN THE LAND DESCRIBED IN DEED TO CARRIE BILL HENSLEY ON SEPTEMBER 6, 2002 IN DEED BOOK 120, PAGE 602 IN THE OFFICE OF THE COUNTY CLERK OF CLINTON COUNTY, KENTUCKY.

### Notes

1. ANY ENCUMBRANCES AND LANDOWNER INFORMATION SHOWN HEREON, REGARDING THE SUBJECT TRACT, ARE BASED UPON A TITLE SEARCH COMPLETED BY ABSTRACTS & TITLES, INC. OF LOUISVILLE, KENTUCKY, DATED DECEMBER 18, 2018, EXAM NO. 237987.

2. THE UTILITIES SHOWN ON THIS PLAT MAY OR MAY NOT REPRESENT ALL OF THE UTILITIES LOCATED AT THE SUBJECT SITE. THE PRESENCE OF UTILITIES WAS DETERMINED BY A VISUAL INSPECTION OF THE PROPERTY SURFACE. NO UTILITY LOCATE WAS CALLED IN PRIOR TO THIS SURVEY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION.

3. THE TOPOGRAPHIC INFORMATION CONTAINED ON THIS PLAT IS AS REQUESTED BY THE CLIENT AND MAY OR MAY NOT REPRESENT ALL OF THE TOPOGRAPHIC FEATURES LOCATED AT THE SUBJECT SITE.

4. ACCORDING TO RICHARD C. ARMSTRONG, COUNTY JUDGE EXECUTIVE OF CLINTON COUNTY, NO LOCAL PLANNING UNIT EXISTS WHICH HAS GEOGRAPHICAL JURISDICTION OF THE SUBJECT TOWER SITE. THE COUNTY JUDGE EXECUTIVE'S OFFICE MAY BE CONTACTED AT 606-387-5234 FOR CONFIRMATION.

5. THE PROPOSED LOCATION OF THE ALBANY CAPACITY 2 TOWER SITE WILL BE LOCATED OUTSIDE OF AN INCORPORATED CITY.

6. THE ROAD RIGHT OF WAY SHOWN HEREON WAS DETERMINED BY USE, DEED BOOK 149, PAGE 515 AND DEED BOOK 153, PAGE 41.

7. THE FOLLOWING EQUIPMENT WAS USED TO COMPLETE THIS SURVEY: (1) TOPCON QS-3 ROBOTIC TOTAL STATION AND (2) TOPCON HIPER II NETWORK ROVER/BASE-ROVER DUAL FREQUENCY GPS SYSTEM. THE GPS SYSTEM WAS USED IN THE RTK MODE.


LANDMARK SURVEYING CO., INC.
15 N.E. 3RD STREET
WASHINGTON, INDIANA 47501
(812) 257-0950
WEBSITE: LANDMARKSURVEYINGCO.COM




Project No. 19-01-0100

Lease Boundary Survey
1385 Old Monticello Road
Albany, Kentucky 42602

Bluegrass Cellular
2902 Ring Road
Elizabethtown, KY 42701

| REVISIONS | DATE |
|---|---|
| ADDED END. CERT. | 5-29-19 |
| | |
| | |
| | |

DATE: Jan. 16, 2019
DRAWN BY: D.L. Helms
CHECKED BY: D.L. Helms

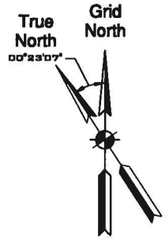
SHEET No. 1 of 2 SHEETS

FILE NAME: albany.dwg

# SITE: ALBANY CAPACITY 2

## Lease Boundary and Topographic Survey

## Clinton County, Kentucky

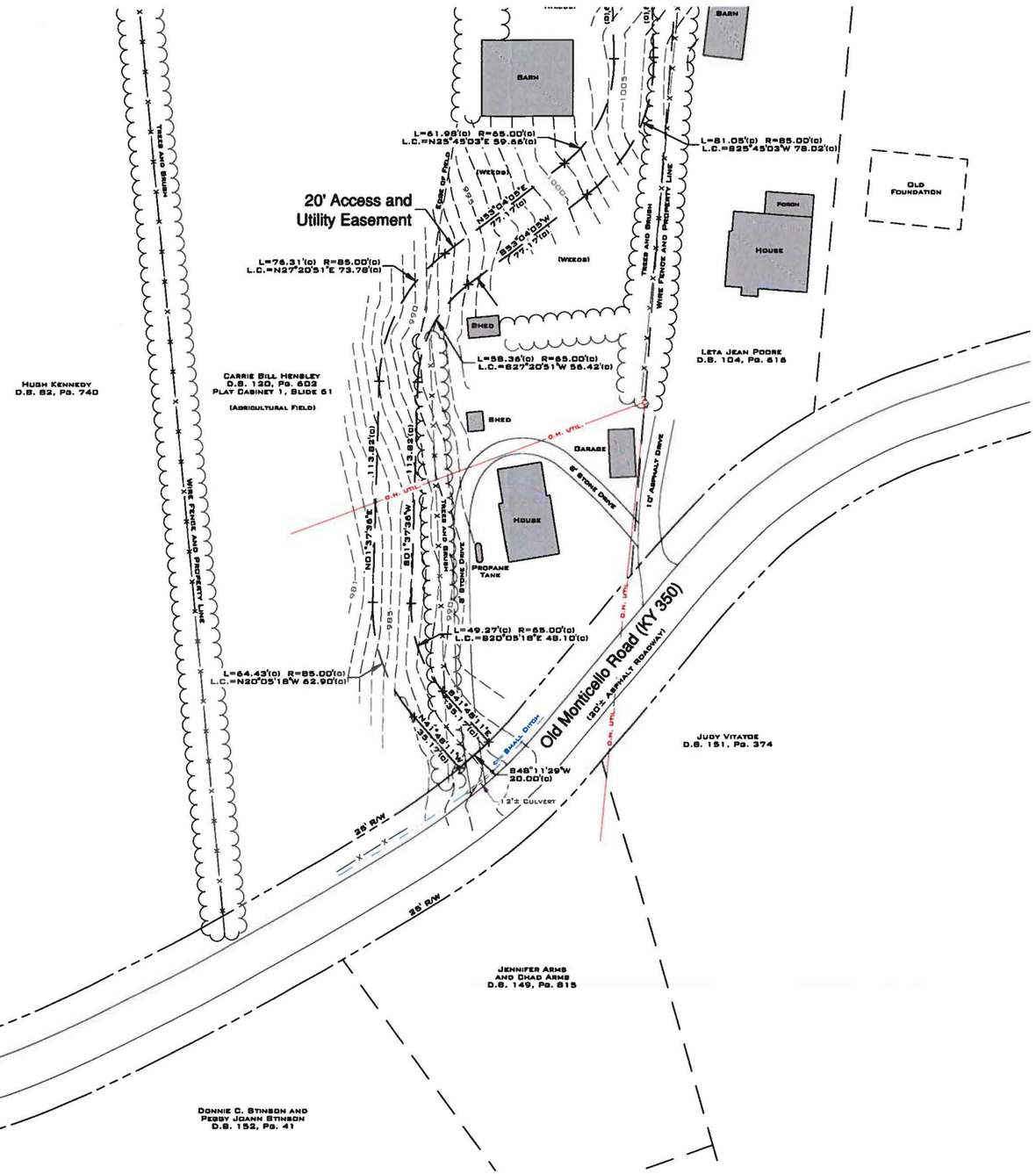



**Basis of Bearings**

THE BEARING SYSTEM OF THIS SURVEY IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON JANUARY 8, 2019 USING THE KENTUCKY TRANSPORTATION CABINET'S KYCORS NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

**Legend**

- 5/8" Rebar, 24" in Length, Set Flush With A Survey Cap Inscribed "D.L. Helms PLS 3386"
- 5/8" Rebar Set Flush - No Survey Cap
- 30" Double Maple At A Fence Intersection
- 6" Wood Corner Post At A Fence Intersection
- Calculated Location
- Lease Boundaries
- Apparent Right of Way
- Tie Course (Lead-in)
- New Easement Boundaries
- 990 Existing Contour
- Wire Fence
- Utility Pole
- Guy Anchor
- XXXX Utility As Noted





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Lease Boundary Survey
1385 Old Monticello Road
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**Bluegrass Cellular**
2902 Ring Road
Elizabethtown, KY 42701

| REVISIONS | DATE |
|---|---|
| | |

DATE: Jan. 16, 2019
DRAWN BY: D.L. Helms
CHECKED BY: D.L. Helms

SHEET No. 2 of 2 SHEETS

FILE NAME: albany.dwg

# BLUEGRASS CELLULAR

APPROVAL SIGNATURES

BLUEGRASS CELLULAR PROJECT SUPERVISOR: _____

DATE: _____

CITY REPRESENTATIVE: _____

TITLE: _____

DATE: _____

PROPERTY OWNER/OWNERS: _____

_____

DATE: _____

TOWER OWNER/OWNERS: _____

_____

DATE: _____

**SITE NAME:** ALBANY CAPACITY 2

**911 ADDRESS:** **1385 OLD MONTICELLO RD.**
**ALBANY, KY. 42602**

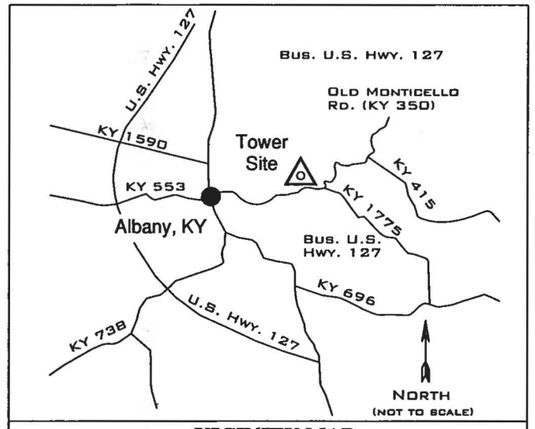
**COUNTY:** CLINTON

TOWER LATITUDE & LONGITUDE

N36* 41' 34.6" W85* 06' 52.9"

## SHEET INDEX

| SHEET NO. | DESCRIPTION | REVISION |
|---|---|---|
| TITLE SHEET | TITLE SHEET | |
| SURVEY | SURVEY | |
| A-1 | SITE PLAN | |
| A-2 | FENCE DETAIL | |
| ANTENNA DETAILS 1 | ANT.SPECS/TOWER ELEV. | |
| ANTENNA DETAILS 2 | ANTENNA DETAILS 2 | |
| E-1 | SITE PLAN - ELECTRICAL | |
| E-2 | ELECTRICAL DETAILS | |
| LYNCOLE | LYNCOLE GROUNDING | |
| E-3 | ELEC. PLAN - GROUNDING | |
| E-4 | GROUNDING - DETAILS | |
| S-1 | FOUNDATION DETAILS | |
| GENERATOR DETAILS | GENERATOR DETAILS | |
| GENERAL NOTES | GENERAL NOTES | |




**VICINITY MAP**
**NOT TO SCALE**

DIRECTIONS TO SITE

FROM ELIZABETHTOWN, KENTUCKY: TRAVEL SOUTH ON I-65 FOR 50 MILES TO THE LOUIE B. NUNN CUMBERLAND PARKWAY; TRAVEL EAST ON THE CUMBERLAND PARKWAY FOR 14 MILES TO EXIT 14 AND KENTUCKY HIGHWAY 90 ON THE SOUTHEAST SIDE OF GLASGOW; TRAVEL EAST ON KENTUCKY HIGHWAY 90 FOR 54 MILES TO U.S. HIGHWAY 127; TURN RIGHT AND TRAVEL SOUTH ON U.S. HIGHWAY 127 FOR 1.7 MILES TO BUSINESS U.S. HIGHWAY 127; TURN LEFT ONTO BUSINESS U.S. HIGHWAY 127 AND CONTINUE SOUTH FOR 2.8 MILES TO CUMBERLAND STREET IN DOWNTOWN ALBANY; TURN LEFT ONTO CUMBERLAND STREET (CHANGES TO OLD MONTICELLO ROAD OR KENTUCKY HIGHWAY 350 AFTER LEAVING ALBANY) AND TRAVEL EAST FOR 1.3 MILES TO THE TOWER ACCESS DRIVE ON THE NORTH SIDE OF THE ROAD; TURN LEFT ONTO THE DRIVE AND TRAVEL NORTH FOR 650 FEET (PASSING THROUGH A BARN LOT) TO THE TOWER SITE ON A RIDGE IN AN AGRICULTURAL FIELD.

## SITE DATA

| | |
|---|---|
| PROPERTY OWNER: | CARRIE & BILL ASBERRY (HENSLEY)<br>606-688-5469 |
| TOWER OWNER: | BLUEGRASS CELLULAR |
| POWER COMPANY: | SOUTH KY. RECC<br>1-606-387-6476 |
| TELEPHONE COMPANY: | ????<br>(???) ???-4466 |
| BLUEGRASS PROJECT MANAGER: | MASON McDOWELL (270)734-1002 |

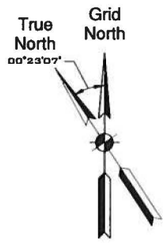
RSB DESIGN

ROBIN BECKER
(502)599-9427
OFFICE

# SITE: ALBANY CAPACITY 2

## Lease Boundary and Topographic Survey

## Clinton County, Kentucky

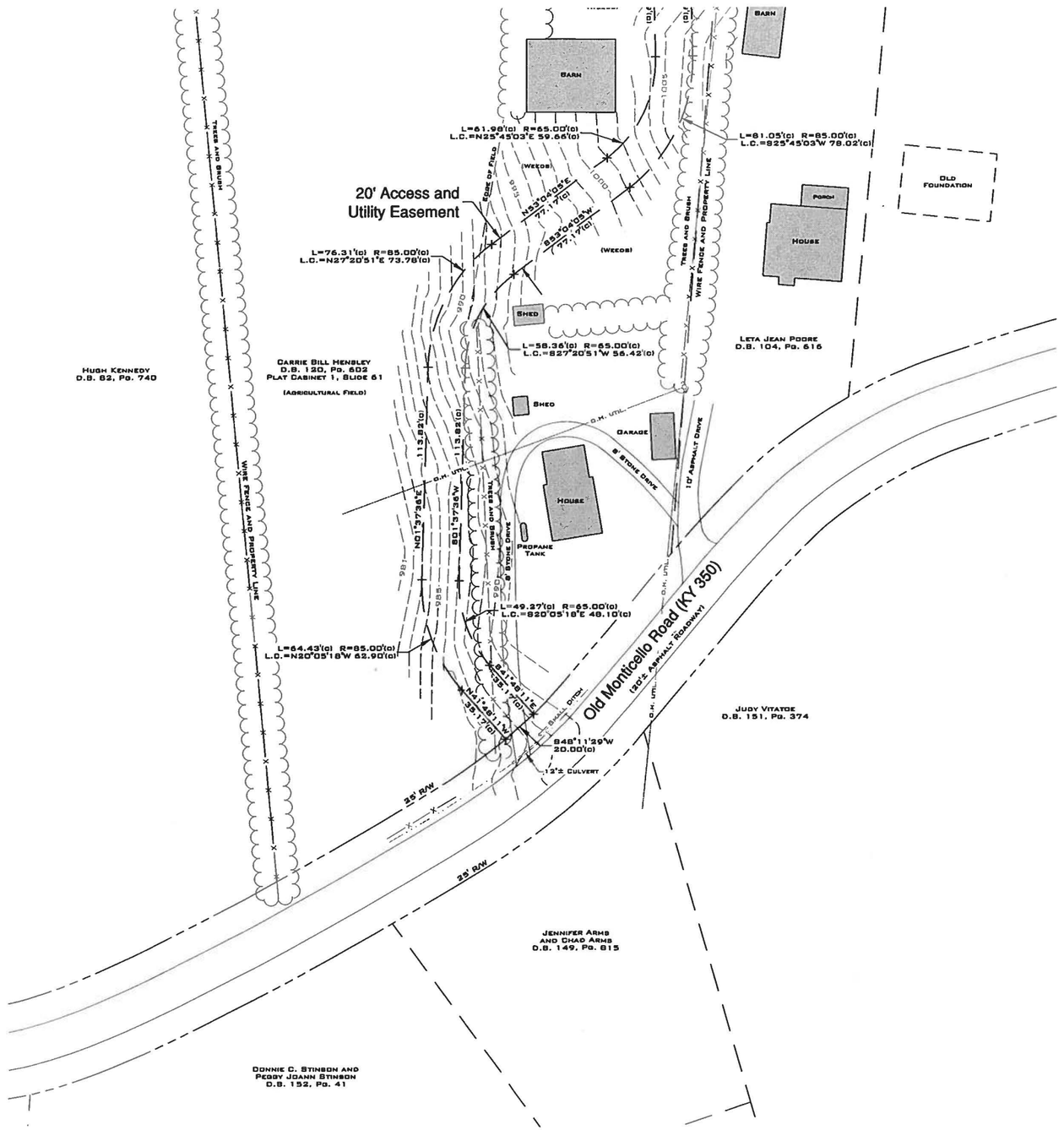



**Basis of Bearings**

THE BEARING SYSTEM OF THIS SURVEY IS BASED UPON THE KENTUCKY STATE PLANE COORDINATE SYSTEM, SOUTH ZONE, NAD 83 (2011), AS DETERMINED BY G.P.S. OBSERVATIONS MADE ON JANUARY 8, 2019 USING THE KENTUCKY TRANSPORTATION CABINET'S KYCORS NAD83 2011 NETWORK. THIS BEARING SYSTEM IS GRID NORTH.

**Legend**

- 5/8" REBAR, 24" IN LENGTH, SET FLUSH WITH A SURVEY CAP INSCRIBED "D.L. HELMS PLS 3356"
- 5/8" REBAR SET FLUSH - NO SURVEY CAP
- 20" DOUBLE MAPLE AT A FENCE INTERSECTION
- 6" WOOD CORNER POST AT A FENCE INTERSECTION
- CALCULATED LOCATION
- LEASE BOUNDARIES
- APPARENT RIGHT OF WAY
- TIE COURSE (LEAD-IN)
- NEW EASEMENT BOUNDARIES
- 99D EXISTING CONTOUR
- WIRE FENCE
- UTILITY POLE
- GUY ANCHOR
- UTILITY AS NOTED





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Project No. 19-01-0100

Lease Boundary Survey
1385 Old Monticello Road
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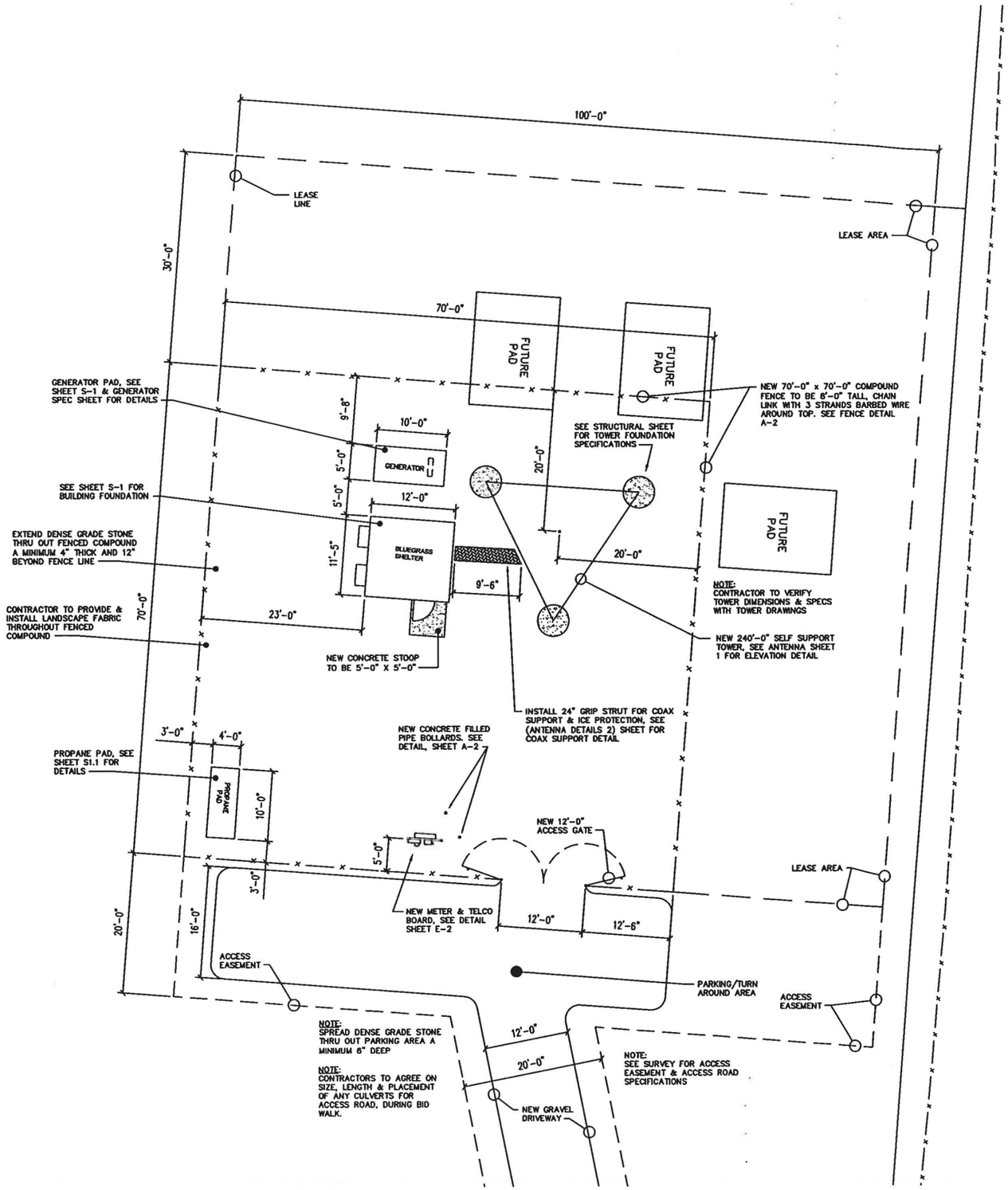
| REVISIONS | DATE |
|---|---|
| | |

DATE: Jan. 16, 2019
DRAWN BY: D.L. Helms
CHECKED BY: D.L. Helms

SHEET No. 2 of 2 SHEETS

FILE NAME: albany.dwg




## SITE PLAN

SCALE: 1/16"= 1'-0"

GENERAL NOTES:

1) EQUIPMENT PICK-UP AND DELIVERY TO SITE FROM BLUEGRASS CELLULAR STAGING FACILITY TO BE THE CONTRACTORS RESPONSIBILITY, INCLUDING CRANE SET, AND ALL COST INCURRED.

2) FOR, BUILDING AND ALL CONCRETE PAD DETAILS REFER TO STRUCTURALS AND SHEET S1.1

3) ANY DAMAGE DUE TO CONSTRUCTION, TO BE REPAIRED OR REPLACED TO ORIGINAL CONDITION. (SUBJECT TO BLUEGRASS CELLULAR'S APPROVAL).

4) ANY DAMAGE OF NATURAL SURROUNDINGS , INCLUDING BUT NOT LIMITED TO, GRASS, TREES, LANDSCAPING, ETC.. TO BE REPAIRED OR REPLACED TO ORIGINAL CONDITION AT BLUEGRASS CELLULAR'S APPROVAL.

5) ROADWAYS TO BE GRADED SMOOTH AND EVEN, REMOVING ALL POTHOLES. ROADS TO HAVE PROPER DRAINAGE AND RUNOFF PER BLUEGRASS CELLULAR'S APPROVAL.

6) ANY RELOCATION OF EXISTING UTILITIES TO BE DONE IN ACCORDANCE WITH LOCAL CODES AND RECOMMENDATIONS, CONSULTING ALL UTILITY COMPANIES INVOLVED FOR APPROVAL AND SPECIFICATIONS REQUIRED.

7) FOR GRADING DETAILS, SEE GENERAL NOTESHEET

8) CONTRACTOR TO FIELD VERIFY ALL TOWER DIMENSIONS WITH TOWER MANUFACTURER PRIOR TO JOB BIDDING OR START OF ANY CONSTRUCTION

9) CONTRACTOR RESPONSIBLE FOR APPLYING FOR SERVICE TO SITE AND PAYING ANY FEES REQUIRED FOR PERMITS, HOOKUP, ETC..

10) CONTRACTOR RESPONSIBLE FOR SUPPLYING AND INSTALLING ALL DRAINAGE CULVERTS NEEDED ON SITE. DETERMINE APPROX. NUMBER & SIZE DURING CONTRACTOR BID WALK. CULVERTS TO BE GALVANIZED CORRUGATED METAL WITH A MINIMUM DIAMETER OF 15"

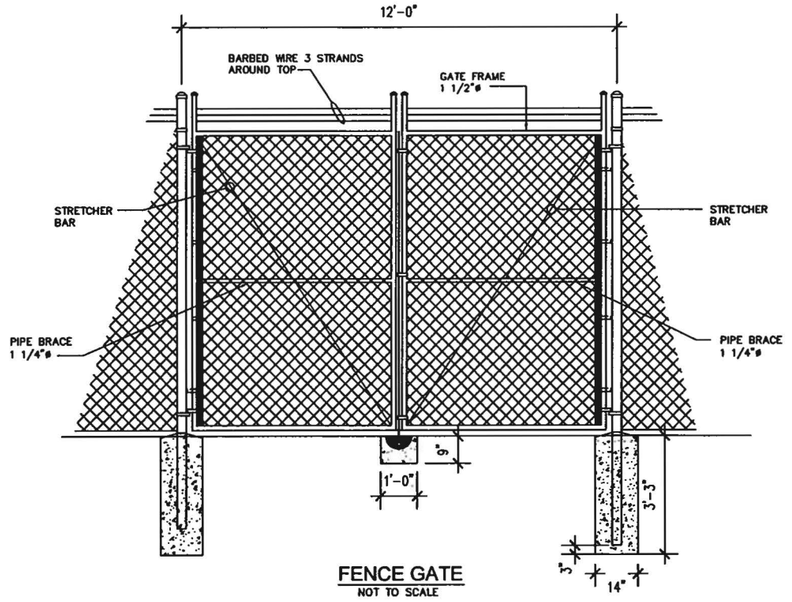
R.S.B. DESIGN
381 FLORA AVE. LOUISVILLE, KY. 40218
(502)599-5427

| NO. | DATE | REVISION |
|---|---|---|
| | | |

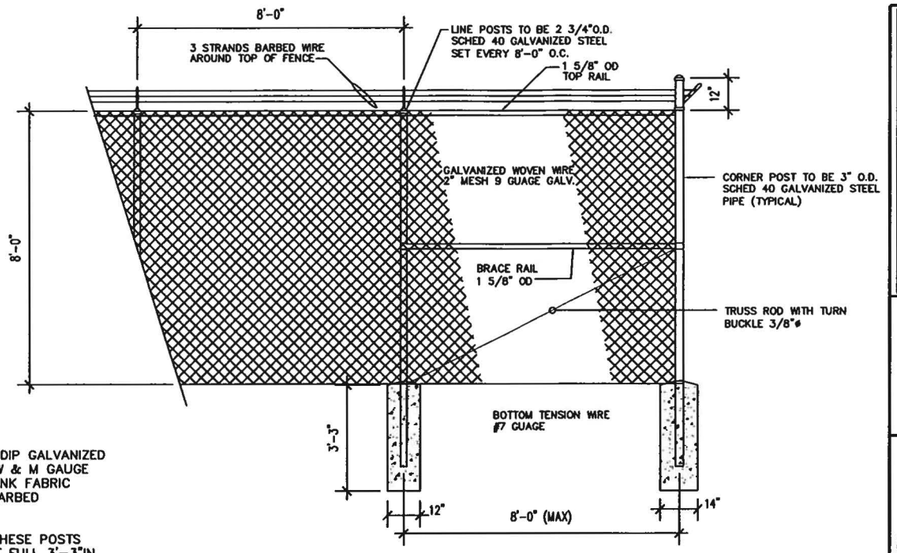
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
ALBANY CAPACITY 2
1385 OLD MONTICELLO RD. ALBANY, KY. 42602

DRAWN BY: R. BECKER
ISSUE DATE: 1-21-19
SCALE: LISTED

SHEET NUMBER
A-1




FENCE GATE
NOT TO SCALE




FENCE DETAIL END POLES
NOT TO SCALE

## CHAIN LINK FENCING NOTES:

1 FABRIC: THE FABRIC SHALL BE COMPOSED OF INDIVIDUAL HOT DIP GALVANIZED WIRE PICKETS HELICALLY WOUND AND INTERWOVEN FROM NO.9 W & M GAUGE COPPER BEARING STEEL WIRE TO FORM A CONTINUOUS CHAIN LINK FABRIC HAVING A 2" MESH. TOP EDGES SHALL HAVE A TWISTED AND BARBED

2 POSTS: SHALL BE 2 3/4" O.D. SS 40 PIPE HOT GALVINIZED. THESE POSTS SHALL BE SPACED APPROXIMATELY 8'-0" ON CENTERS AND SET FULL 3'-3"IN BELL – SHAPED CONCRETE FOOTING, CROWNED AT TOP TO SHED WATER.

3 TOP RAIL: SHALL BE 1 5/8" O.C. STANDARD PIPE HOT GALVANIZED AND SHALL BE FURNISHED IN RANDOM LENGTHS AVRERAGING NOT LESS THAN 20".

4 FABRIC TIES: FOR ATTACHING FABRIC TO LINE POST, TOP RAIL OR TOP WIRE, SHALL BE ALUMINUM STRIP OF WIRE OF APPROVED GUAGE AND DESIGN. USED ON TOP OF RAIL EVERY 24" AND ONE POST EVERY 12".

5 EXTENSION ARMS: CAST STEEL GALVANIZED TO ACCOMODATE 3 STRANDS OF BARB WIRE, SINGLE ARM SLOPED TO 45°, AND VERTICAL ON TOP OF SWING GATES.

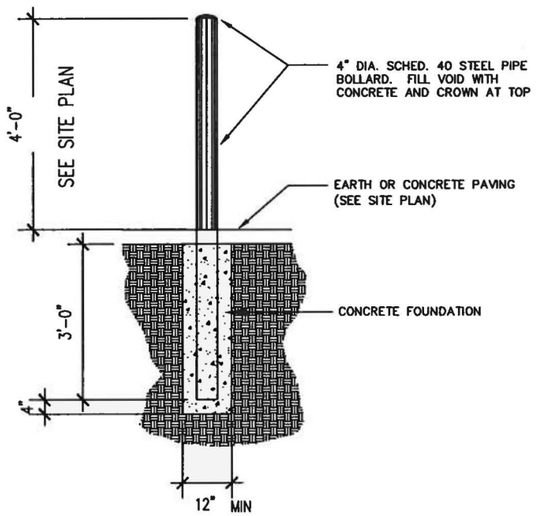
6 BARBED WIRE (STEEL): ASTM A121 GALVINIZED STEEL, 12 GUAGE THICK WIRE, 3 STRANDS 4 POINTS AT 3" O.C.

7 SWING GATE POSTS: SHALL BE 3" O.C. STANDARD HOT GALVINIZED, WEIGHING 5.79 LBS. PER FOOT.

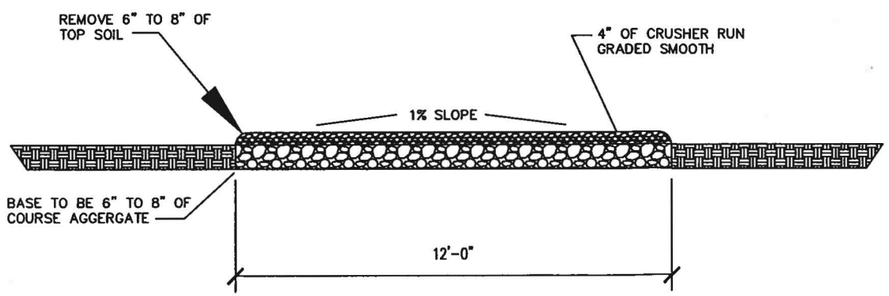
8 GATES: (a) SWING GATES: 2" O.C. STANDARD PIPE WITH INTERNAL BRACING OF 1 5/8" O.D. STANDARD PIPE; WELDED AT ALL JOINTS TO PROVIDE RIGID WATERTIGHT CONSTRUCTION. FABRIC SAME AS FENCE.

9 FENCE TO BE 100% ERECTED WITHIN TEN(10) DAYS OF COMPLETION OF CONSTRUCTION, IF TIME FRAME CANNOT BE MET, PLEASE NOTIFY PROJECT SUPERVISOR.

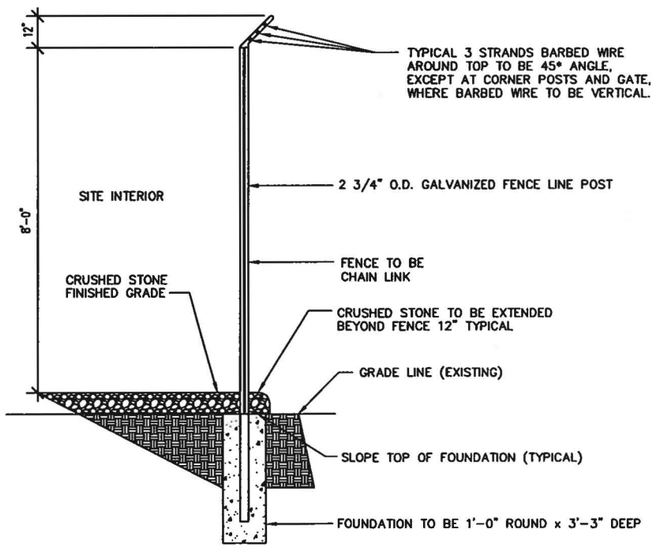
10 FENCE STOPS TO BE PLACED ON INSIDE OF COMPOUND PER ACCESS GATE SPECIFICATIONS.




BOLLARD DETAIL
NOT TO SCALE




ROAD DETAIL
NOT TO SCALE




FENCE DETAIL LINE POLES
NOT TO SCALE

RSB DESIGN
rsbdesign1@bellsouth.net (502)599-9427

REVISION

| NO. | DATE |
|---|---|
| | |

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
ALBANY CAPACITY 2
1385 OLD MONTICELLO RD. ALBANY, KY. 42602

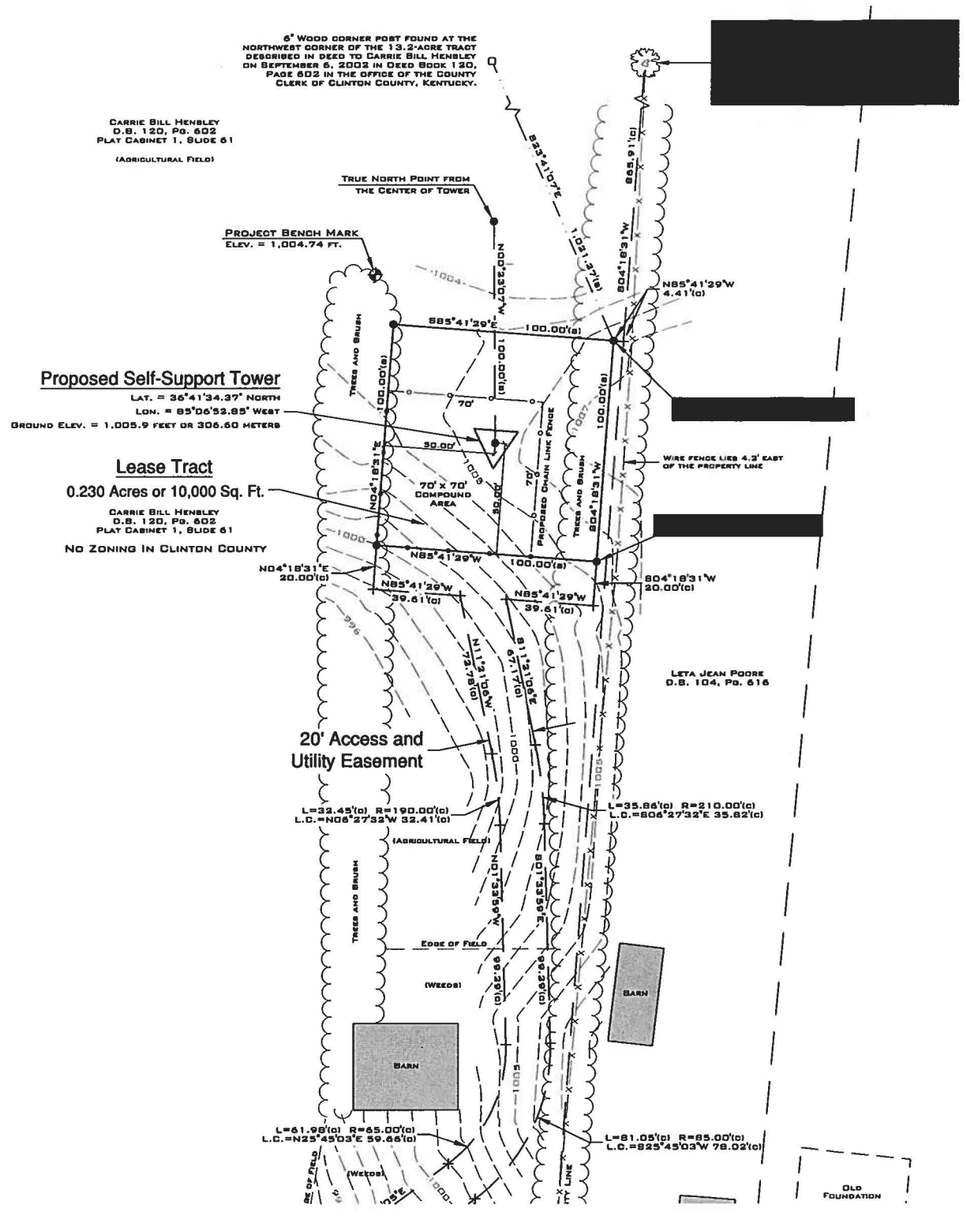
DRAWN BY: R. BECKER
ISSUE DATE: 1-21-19
SCALE: LISTED

SHEET NUMBER
A-2

# SITE: ALBANY CAPACITY 2

## Lease Boundary and Topographic Survey

## Clinton County, Kentucky




### GRAPHIC SCALE

30 0 15 30 60 120

( IN FEET )

1 INCH = 30 FT.

CONTOUR INTERVAL = 1-FOOT

### Legend

- 5/8" Rebar, 24" in Length, Set Flush With A Survey Cap Inscribed "D.L. Helms PLS 3386"
- 5/8" Rebar Set Flush - No Survey Cap
- 20" Double Maple At A Fence Intersection
- 6" Wood Corner Post At A Fence Intersection
- Calculated Location
- Lease Boundaries
- Apparent Right Of Way
- Tie Course (Lead-in)
- New Easement Boundaries
- Existing Contour
- Wire Fence
- Utility Pole
- Guy Anchor
- Utility As Noted

### Basis of Bearings

The bearing system of this survey is based upon the Kentucky State Plane Coordinate System, South Zone, NAD 83 (2011), as determined by G.P.S. observations made on January 8, 2019 using the Kentucky Transportation Cabinet's KYCORS NAD83 2011 Network. This bearing system is grid north.

### Tower Location Information

Designation: Albany Capacity 2
Site ID#: None
Horizontal Datum: NAD 83 (2011)
Latitude: 36°41'34.37" North
Longitude: 85°06'53.85" West
Vertical Datum: NAVD 88
Ground Elevation: 1,005.9 feet (306.60 m)

State Plane Coordinates
Northing: 1,771,949.68 feet (540,091.343 m)
Easting: 1,826,694.13 feet (556,777.484 m)

### Landowner Information

Landowner: Carrie Bill Asberry (Hensley)
Address: 610 E. Cumberland Street
Albany, KY 42602

Contact Person: Carrie Asberry
Phone Number: 606-688-5469

PVA Map Number: 037-00-00-013.00

### Project Bench Mark

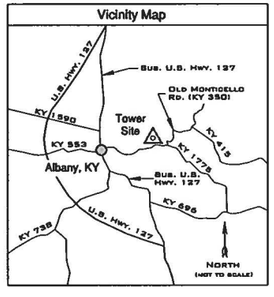
Northing: 1,772,026 feet (540,115 m)
Easting: 1,826,640 feet (556,761 m)
Elevation: 1,004.74 feet (306.245 m)

Description: A 5/8" rebar set 4" above grade at the north end of a row of trees and brush. The rebar is located 93' northwest of the center of the tower.

### Flood Plain Statement

According to the Flood Insurance Rate Map (FIRM) for Clinton County, Kentucky and Incorporated Areas, Map No. 21053C0150D, dated July 22, 2010, the subject site lies within "Other Areas - Zone X". This zone is defined as "Areas determined to be outside the 0.2% annual chance floodplain".

### Vicinity Map




### Directions to the Site

From Elizabethtown, Kentucky: Travel south on I-65 for 50 miles to the Louie B. Nunn Cumberland Parkway; travel east on the Cumberland Parkway for 14 miles to Exit 14 and Kentucky Highway 90 on the southeast side of Glasgow; travel east on Kentucky Highway 90 for 54 miles to U.S. Highway 127; turn right and travel south on U.S. Highway 127 for 1.7 miles to Business U.S. Highway 127; turn left onto Business U.S. Highway 127 and continue south for 2.8 miles to Cumberland Street in downtown Albany; turn left onto Cumberland Street (changes to Old Monticello Road or Kentucky Highway 350 after leaving Albany) and travel east for 1.3 miles to the tower access drive on the north side of the road; turn left onto the drive and travel north for 650 feet (passing through a barn lot) to the tower site on a ridge in an agricultural field.

### Lease Boundary and Easement Description

A tract of land that is located 1,700 feet northeasterly of the intersection of Old Monticello Road (Kentucky Highway 350) and George Sloan Road, about 1.2 miles east of downtown Albany, Clinton County, Kentucky; said tract being described as follows:

Commencing at a 20-inch double maple found at a fence intersection that marks the northeast corner of the 13.2-acre tract described in deed to Carrie Bill Hensley on September 6, 2002 in Deed Book 120, page 602 in the office of the County Clerk of Clinton County, Kentucky; thence, along the east boundary of said 13.2-acre tract, South 04 degrees 18 minutes 31 seconds West 885.91 feet; thence, leaving said east boundary, North 85 degrees 41 minutes 29 seconds West 4.41 feet to a 5/8-inch rebar set flush with a survey cap inscribed "D.L. Helms PLS 3386" (referred to as a rebar set in the remainder of this description) at the POINT OF BEGINNING of this description; thence South 04 degrees 18 minutes 31 seconds West 100.00 feet to a rebar set flush; thence North 85 degrees 41 minutes 29 seconds West 100.00 feet to a rebar set flush; thence North 04 degrees 18 minutes 31 seconds East 100.00 feet to a rebar set flush; thence South 85 degrees 41 minutes 29 seconds East 100.00 feet to the point of beginning and containing 0.230 acres (10,000 square feet), more or less.

Together with an access and utility easement from the above-described 0.230-acre lease tract to Old Monticello Road (Kentucky Highway 350); said easement being described as follows: Beginning at a 5/8-inch rebar set flush with a survey cap inscribed "D.L. Helms PLS 3386", which marks the southeast corner of the above-described 0.230-acre lease tract; thence South 04 degrees 18 minutes 31 seconds West 20.00 feet; thence North 85 degrees 41 minutes 29 seconds West 39.61 feet; thence South 11 degrees 21 minutes 06 seconds East 67.17 feet; thence Southeasterly 35.86 feet along an arc to the right and having a radius of 210.00 feet and subtended by a long chord having a bearing of South 06 degrees 27 minutes 32 seconds East and a length of 35.82 feet; thence South 01 degree 33 minutes 59 seconds East 99.29 feet; thence Southwesterly 81.05 feet along an arc to the right and having a radius of 85.00 feet and subtended by a long chord having a bearing of South 25 degrees 45 minutes 03 seconds West and a length of 78.02 feet; thence South 53 degrees 04 minutes 05 seconds West 77.17 feet; thence Southwesterly 58.36 feet along an arc to the left and having a radius of 65.00 feet and subtended by a long chord having a bearing of South 27 degrees 20 minutes 51 seconds West and a length of 56.42 feet; thence South 01 degree 37 minutes 36 seconds West 113.82 feet; thence Southeasterly 49.27 feet along an arc to the left and having a radius of 65.00 feet and subtended by a long chord having a bearing of South 20 degrees 05 minutes 18 seconds East and a length of 48.10 feet; thence South 41 degrees 48 minutes 11 seconds East 35.17 feet to the Northwestern right of way of Old Monticello Road (25 feet from the center of the road); thence, along said right of way, South 48 degrees 11 minutes 29 seconds West 20.00 feet; thence North 41 degrees 48 minutes 11 seconds West 35.17 feet; thence Northwesterly 64.43 feet along an arc to the right and having a radius of 85.00 feet and subtended by a long chord having a bearing of North 20 degrees 05 minutes 18 seconds West and a length of 62.90 feet; thence North 01 degree 37 minutes 36 seconds East 113.82 feet; thence Northeasterly 76.31 feet along an arc to the right and having a radius of 85.00 feet and subtended by a long chord having a bearing of North 27 degrees 20 minutes 51 seconds East and a length of 73.78 feet; thence North 53 degrees 04 minutes 05 seconds East 77.17 feet; thence Northeasterly 81.98 feet along an arc to the left and having a radius of 65.00 feet and subtended by a long chord having a bearing of North 25 degrees 45 minutes 03 seconds East and a length of 59.66 feet; thence North 01 degree 33 minutes 59 seconds West 99.29 feet; thence Northwesterly 32.45 feet along an arc to the left and having a radius of 190.00 feet and subtended by a long chord having a bearing of North 06 degrees 27 minutes 32 seconds West and a length of 32.41 feet; thence North 11 degrees 21 minutes 06 seconds West 73.78 feet; thence North 85 degrees 41 minutes 29 seconds West 39.61 feet; thence North 04 degrees 18 minutes 31 seconds East 20.00 feet to a 5/8-inch rebar set flush with said Helms survey cap at the southwest corner of the above-described 0.230-acre least tract; thence South 85 degrees 41 minutes 29 seconds East 100.00 feet to the point of beginning.

The bearing system of this description is based upon the Kentucky State Plane Coordinate System, South Zone, NAD 83 (2011), as determined by G.P.S. observations made on January 8, 2019 using the Kentucky Transportation Cabinet's KYCORS NAD83 2011 Network. This bearing system is grid north.

This description is based upon a survey completed by Landmark Surveying Co., Inc. and certified by Darren L. Helms, P.L.S. 3386, on January 16, 2019.

Source of title: Being a portion of and lying entirely within the land described in deed to Carrie Bill Hensley on September 6, 2002 in Deed Book 120, page 602 in the office of the County Clerk of Clinton County, Kentucky.

### Notes

1. Any encumbrances and landowner information shown hereon, regarding the subject tract, are based upon a title search completed by Abstracts & Titles, Inc. of Louisville, Kentucky, dated December 18, 2018, Exam No. 237987.

2. The utilities shown on this plat may or may not represent all of the utilities located at the subject site. The presence of utilities was determined by a visual inspection of the property surface. No utility locate was called in prior to this survey. It shall be the responsibility of the contractor to locate utilities prior to construction.

3. The topographic information contained on this plat is as requested by the client and may or may not represent all of the topographic features located at the subject site.

4. According to Richard C. Armstrong, County Judge Executive of Clinton County, no local planning unit exists which has geographical jurisdiction of the subject tower site. The County Judge Executive's office may be contacted at 606-387-5234 for confirmation.

5. The proposed location of the Albany Capacity 2 tower site will be located outside of an incorporated city.

6. The road right of way shown hereon was determined by use, Deed Book 149, Page 815 and Deed Book 152, Page 41.

7. The following equipment was used to complete this survey: (1) Topcon QS-3 robotic total station and (2) Topcon Hiper II network rover/base-rover dual frequency GPS system. The GPS system was used in the RTK mode.

### Certification

I hereby certify that this plat has been compiled from a survey made upon the ground under my direct supervision on January 8, 2019 by the method of Real Time Kinematic GPS Survey and a random traverse with sideshots. The relative positional accuracy of any point on this survey is better than ± 0.10 feet + 200 ppm. This plat represents a Rural Boundary Survey and complies with the requirements of 201 KAR 18:150.

Darren L. Helms
Darren L. Helms, P.L.S. 3386

January 16, 2019
Date

STATE of KENTUCKY
Darren L. Helms
3386
LICENSED PROFESSIONAL LAND SURVEYOR


Landmark Surveying Co., Inc.
15 N.E. 3rd Street
Washington, Indiana 47501
(812) 257-0950
Website: landmarksurveying.com



Project No. 19-01-0100

Lease Boundary Survey
1385 Old Monticello Road
Albany, Kentucky 42602

Bluegrass Cellular
2902 Ring Road
Elizabethtown, KY 42701

| REVISIONS | DATE |
|---|---|
| | |
| | |
| | |
| | |

| DATE | DRAWN BY | CHECKED BY |
|---|---|---|
| Jan. 18, 2019 | D.L. Helms | D.L. Helms |

SHEET No. 1 of 2 SHEETS

FILE NAME albany.dwg

# BLUEGRASS CELLULAR GENERAL NOTES & ANTENNA SPECS

ALL LINES AND ANTENNAS TO BE PROPERLY MOUNTED TO TOWER OR STRUCTURE PER BLUEGRASS CELLULAR SPECIFICATIONS.

ALL GROUND BARS TO BE INSTALLED AND CAD WELDED TO GROUND FIELD (WHERE REQUIRED)

ALL LINES TO BE GROUNDED AT THE TOP AND BASE OF STRUCTURE OR TOWER.

ALL LINES TO BE GROUNDED AT ENTRANCE OF SHELTER BEFORE WAVE GUIDE PORTS. (EXTERIOR OF BUILDING)

LINES ARE TO BE SECURED TO ICE BRIDGE

WAVE-GUIDE BOOTS ARE TO BE INSTALLED ON ALL LINES (BOTH INSIDE AND OUTSIDE)

ALL COAX CONNECTIONS ARE TO BE WEATHER PROOFED.

INVENTORY OF ALL MATERIAL IS TO BE DONE PRIOR TO INSTALLATION BY CONTRACTOR. (LIST WILL BE PROVIDED)

ALL TRASH AND REFUGE IS TO BE PROPERLY DISPOSED OF.

CONTRACTOR TO EXTEND HARDLINES INTO BUILDING 12" & INSTALL POLYPHASERS AND GROUNDING, PER INSTRUCTION OF PROJECT SUPERVISOR.

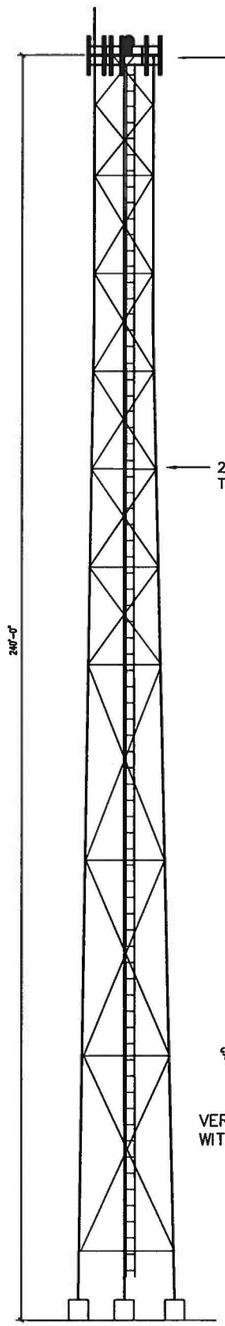
GENERAL CONTRACTOR TO MOUNT ANTENNA MOUNTS AT TOP OF STRUCTURE OR TOWER BY BLUEGRASS CELLULAR SPECIFICATIONS.

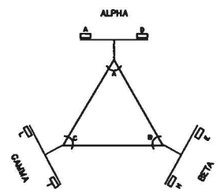
ICE BRIDGE TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. (Additional Ice Bridge if needed)

TRAPEZE KIT TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

CONTRACTOR TO INSTALL GPS BRACKET & ANTENNAS COMPLETE.

CONTRACTOR TO INSTALL LIGHTING SYSTEM PER FAA ADVISORY 70/7460-1K CHANGE 2, OBSTRUCTION MARKING AND LIGHTING, A MED-DUAL SYSTEM - CHAPTERS 4,8(M-DUAL), & 12




VERIFY ANTENNA ORIENTATION WITH ANTENNA SPECIFICATIONS

SELF SUPPORT TOWER ELEVATION (TYPICAL)

## TOWER HEIGHT & TYPE

| |
|---|
| 240'-0" SELF SUPPORT TOWER |

## ANTENNA SPECS

| | TYPE | SIZE L x W x D | NUMBER | AZIMUTH | MOUNTING HEIGHT |
|---|---|---|---|---|---|
| ANTENNA | KATHREIN 800 10965 | | 6 | 0*, 120*, 240* | 240'-0" C/L VERIFY WITH CONSTRUCTION SUPERVISOR |
| ANTENNA / RADIO | RRUS 2212 BC13 | | 6 | A, B, G | 240'-0" C/L |
| | RRUS 2212 BC66 | | 6 | A, B, G | 240'-0" C/L |

## ANTENNA MOUNTING HARDWARE SPECS

| | TYPE | SIZE | NUMBER |
|---|---|---|---|
| MOUNT (PRIMARY) | WD 13X53 MOUNTING FRAME | | 3 |
| MOUNT (SECONDARY) | | | |

## ANTENNA TRANSMISSION LINES SPECS

| | TYPE | SIZE | NUMBER |
|---|---|---|---|
| TRANSMISSION LINE (PRIMARY) | (7) #8AWG | 7/8" | 1 |
| TRANSMISSION LINE (PRIMARY) | (24) Fiber | 1/2" | 1 |
| TRANSMISSION LINE (SECONDARY) | | | |

## DISH SPECS

| | MICROWAVE/DONOR | SIZE | NUMBER | AZIMUTH | MOUNTING HEIGHT |
|---|---|---|---|---|---|
| DISH #1 | | | | | |

## DISH TRANSMISSION LINES

| | TYPE | SIZE | NUMBER |
|---|---|---|---|
| TRANSMISSION LINE #1 | | | |
| TRANSMISSION LINE #2 | | | |

## ANTENNA SYNOPSIS

* ANTENNAS TO HAVE A 2*E
* ANTENNAS TO HAVE A 0* Mech.

RSB DESIGN
rsbdesign1@bellsouth.net (502)599-9427

REVISION

| NO. | DATE |
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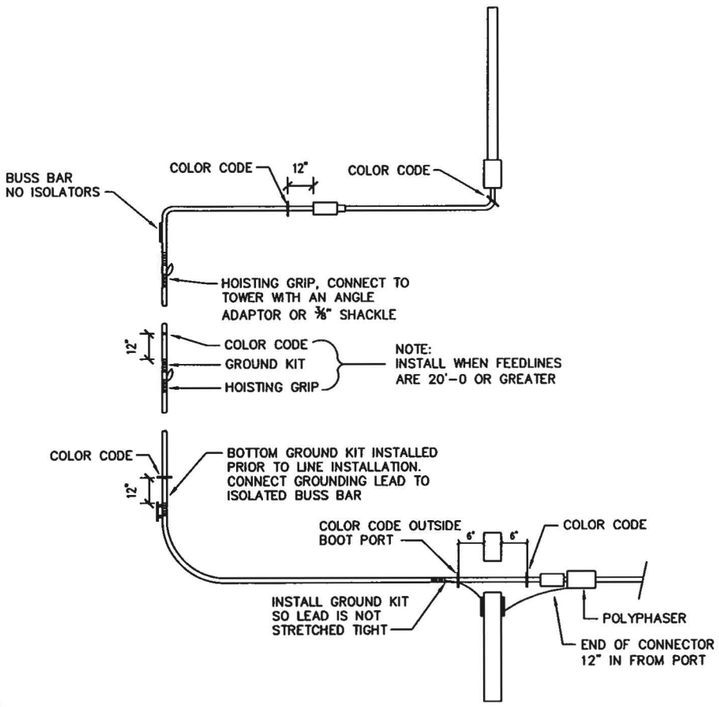
| | |

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
ALBANY CAPACITY 2
1385 OLD MONTICELLO RD. ALBANY, KY. 42602

DRAWN BY: R. BECKER
ISSUE DATE: 1-21-19
SCALE: LISTED

SHEET NUMBER
ANTENNA DETAILS 1



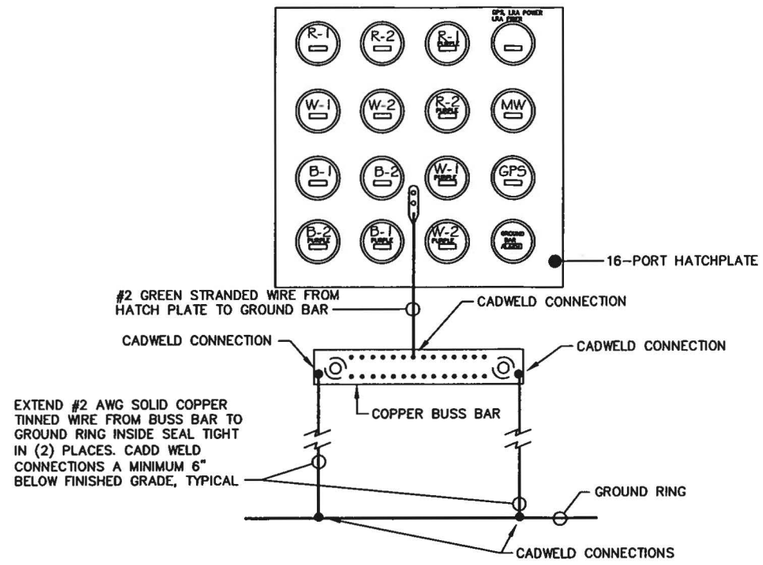

## COLOR CODING DETAIL

NO SCALE

COLOR CODE DETAILS:

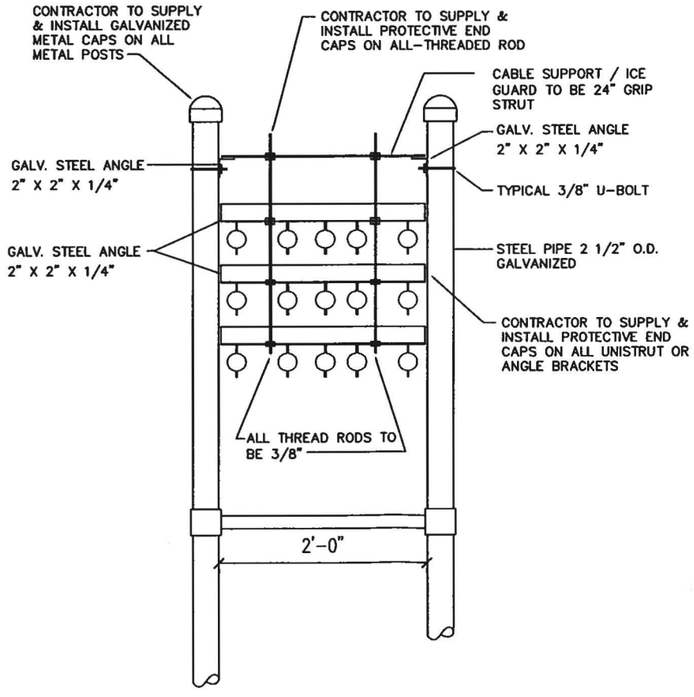
CDMA–NO COLOR OTHER THAN THE SECTOR DESIGNATORS
BCI LTE–ALWAYS 1 PURPLE BAND AFTER RED, WHITE OR BLUE SECTOR DESIGNATOR COLORS.
LRA LTE–ALWAYS HAS 1 ORANGE BAND AFTER RED, WHITE OR BLUE SECTOR DESIGNATOR COLORS.
AWS–ALWAYS HAS 2 ORANGE BANDS AFTER RED, WHITE OR BLUE SECTOR DESIGNATOR COLORS. AWS POWER AND FIBER TRUNK CABLES JUST HAVE 2 ORANGE BANDS WITH NO SECTOR DESIGNATOR COLORS SINCE ALL 3 SECTORS ARE IN TRUNK.

THE SECTOR DESIGNATOR COLORS ARE:
ALPHA 1–1 RED BAND
ALPHA 2–2 RED BANDS
DELTA 1–3 RED BANDS
DELTA 2–4 RED BANDS
BETA 1–1 WHITE BAND
BETA 2 –2 WHITE BANDS
EPSILON1 –3 WHITE BANDS
EPSILON 2–4 WHITE BANDS
GAMMA 1– 1 BLUE BAND
GAMMA 2– 2 BLUE BANDS
ZETA 1 – 3 BLUE BANDS
ZETA 2 – 4 BLUE BANDS
BCI LTE (PURPLE BAND)
1 RED 1 PURPLE (ALPHA 1 BCI LTE)
2 RED 1 PURPLE (ALPHA 2 BCI LTE)
1 WHITE 1 PURPLE (BETA 1 BCI LTE)
2 WHITE 1 PURPLE (BETA 2 BCI LTE)
1 BLUE 1 PURPLE (GAMMA 1 BCI LTE)
2 BLUE 1 PURPLE (GAMMA 2 BCI LTE)



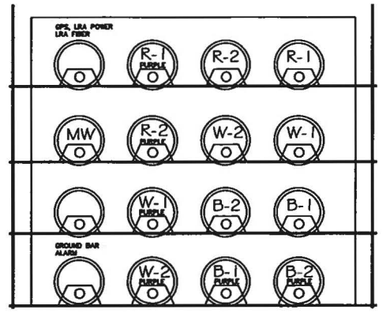

## BOOT PORT GROUNDING DETAIL

NO SCALE




## ICE BRIDGE / COAX SUPPORT DETAIL

NO SCALE




## COAX ENTRY DETAIL POWER SIDE (VIEW FROM INSIDE SHELTER)

NO SCALE

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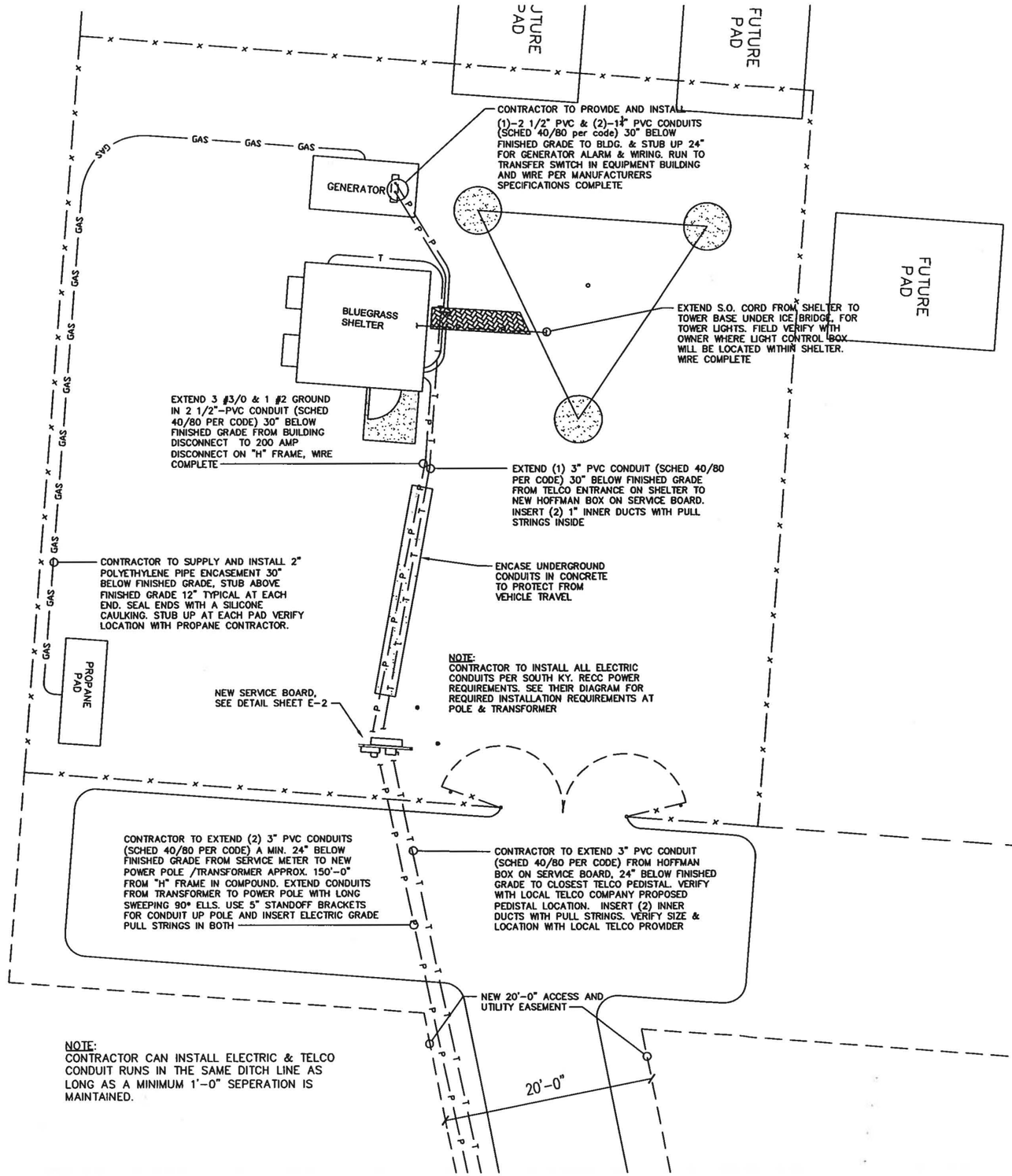
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
ALBANY CAPACITY 2
1385 OLD MONTICELLO RD. ALBANY, KY. 42602

DRAWN BY: R. BECKER
ISSUE DATE: 1–21–19
SCALE: LISTED

SHEET NUMBER
ANTENNA DETAILS 2




GENERAL ELECTRICAL NOTES:

1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.

2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.

3) GROUND RING TO BE CONTAINED WITH IN THE COMPOUNDS FENCED AREA.

4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POST & GATES. SPACE FENCE GROUNDING APPROXIMATELY 20'-0" O/C. (CAD WELD ALL CONNECTIONS)

5) ALL GROUND RING CONNECTIONS TO BE AS CLOSE AS POSSIBLE, SHARP BENDS WILL NOT BE PERMITTED AS WELL AS "T" CONNECTIONS. ALL CONNECTIONS TO HAVE A SWEEPING RADIUS OF 8" MINIMUM. GROUNDING CONFIGURATION TO BE IN PARALLEL.

6) CONTACT POINTS FOR GROUNDING TO BE CLEANED OF ANY RUST, PAINT, DIRT, ETC. TO CREATE A GOOD BOND FOR CONDUCTOR. AREA THAT HAS BEEN CLEANED TO BE RESEALED TO PREVENT RUSTING.

7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.

8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL BONDING, STAINLESS STEEL CONNECTORS ARE REQUIRED AT EACH CONNECTING POINT USING LOCK WASHERS.

9) CONTRACTOR RESPONSIBLE FOR SEEING THAT UTILITY PERSONNEL MAKE FINAL CONNECTIONS, MAKING SURE THE TOWER ALARM IS CONNECTED AND WORKING. A TELEPHONE NUMBER FOR THE ALARM MUST BE SUPPLIED.

10) CONTRACTOR RESPONSIBLE FOR MEG TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS.

11) IF CONDUIT RUNS BURIED LESS THAN REQUIRED DEPTHS, CONTACT BLUEGRASS CELLULAR FOR FURTHER INSTRUCTIONS

NOTE:
CONTRACTOR TO PROVIDE WARNING TAPE IN TRENCHES FOR ALL POWER AND TELCO RUNS UNDER GROUND. TAPE TO BE INSTALLED 1'-0" ABOVE CONDUIT RUNS. (TAKE PICTURES)

SYMBOLS LEGEND

- P — POWER
- G — GAS
- T — TELEPHONE
- X — FENCE
- SWITCH (DISCONNECT)
- METER PACK

# SITE PLAN- ELECTRICAL

SCALE: 3/32" = 1'-0"

RSB DESIGN
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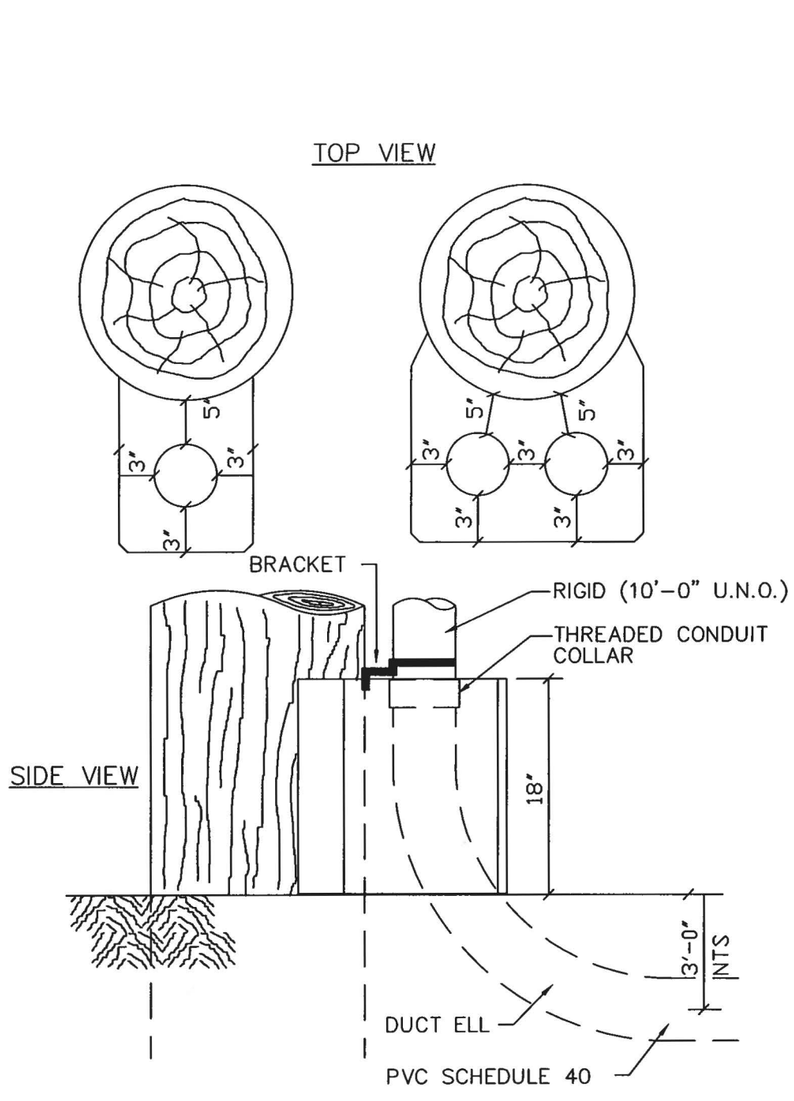
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
ALBANY CAPACITY 2
1385 OLD MONTICELLO RD. ALBANY, KY. 42602

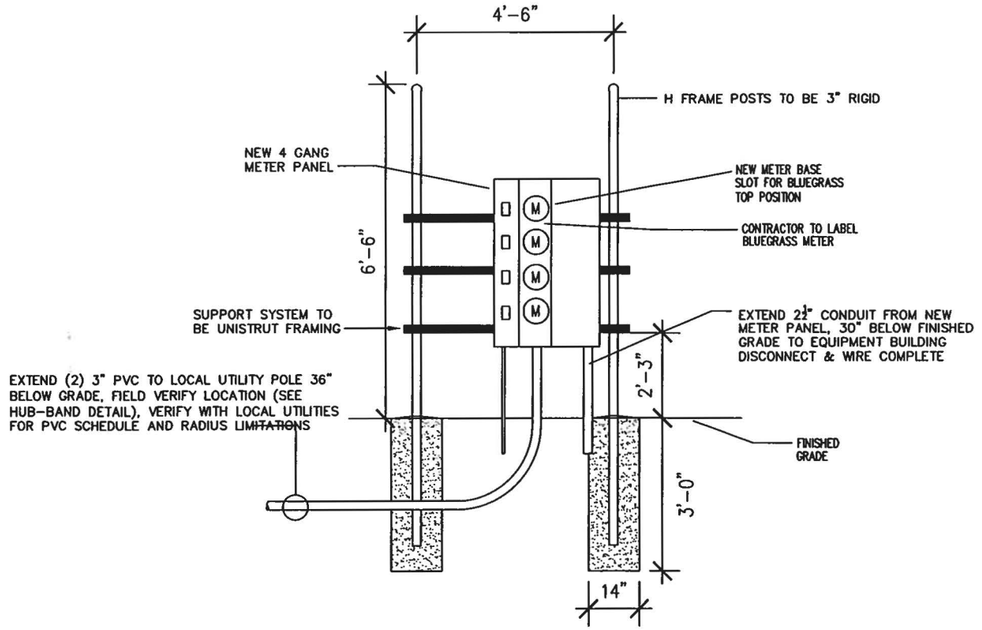
DRAWN BY: R. BECKER
ISSUE DATE: 1-21-19
SCALE: LISTED

SHEET NUMBER
E-1



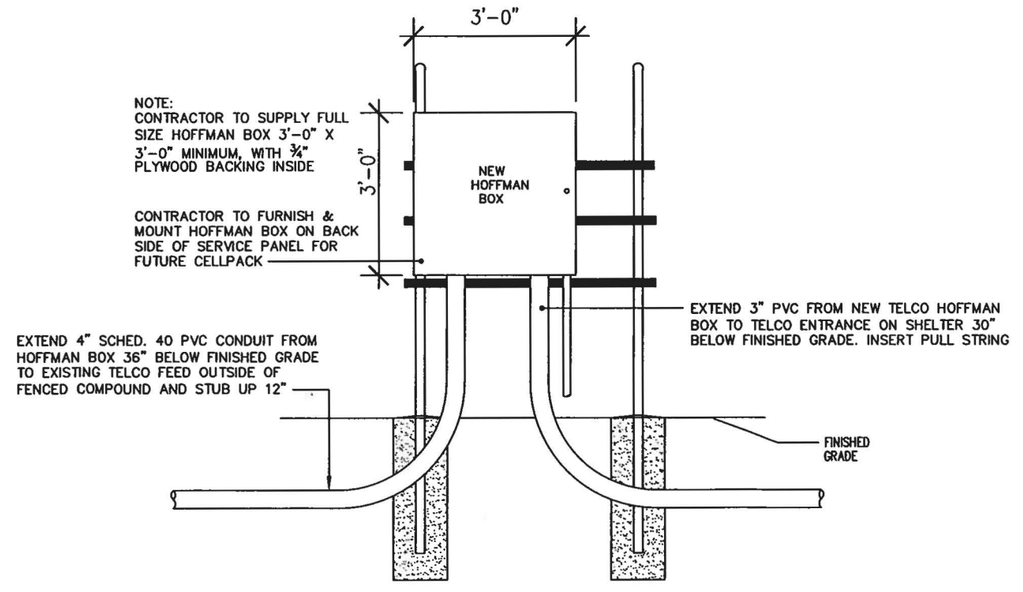

## HUB-BAND DETAIL

NO SCALE




## SERVICE BOARD DETAIL

NO SCALE




## BACKBOARD DETAIL

NO SCALE

RSB DESIGN
rsbdesign1@bellsouth.net (502)599-9427

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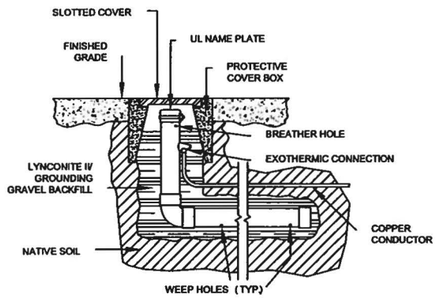
| | | |

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
ALBANY CAPACITY 2
1385 OLD MONTICELLO RD. ALBANY, KY. 42602

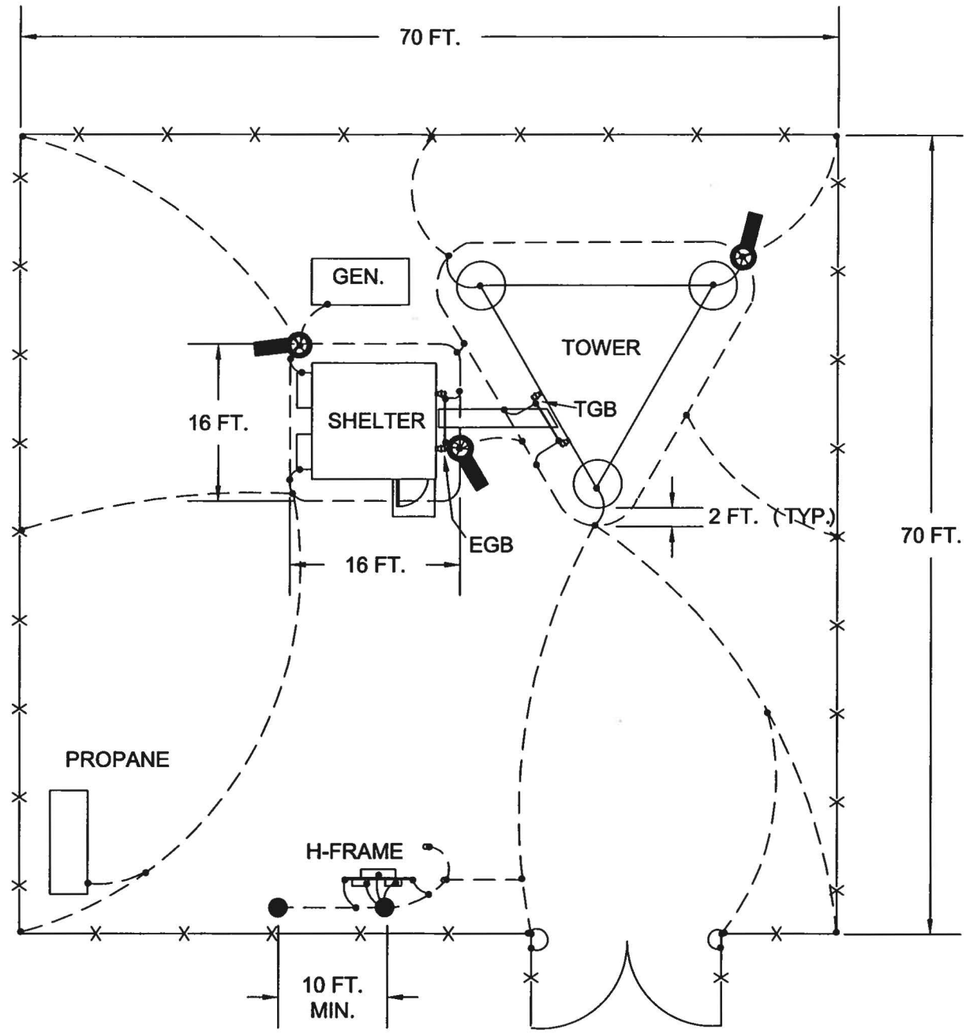
DRAWN BY: R. BECKER
ISSUE DATE: 1-21-19
SCALE: LISTED

SHEET NUMBER
E-2




L-SHAPE MODEL
LYNCOLE XIT GROUNDING
(800) 962-2610

## DETAIL



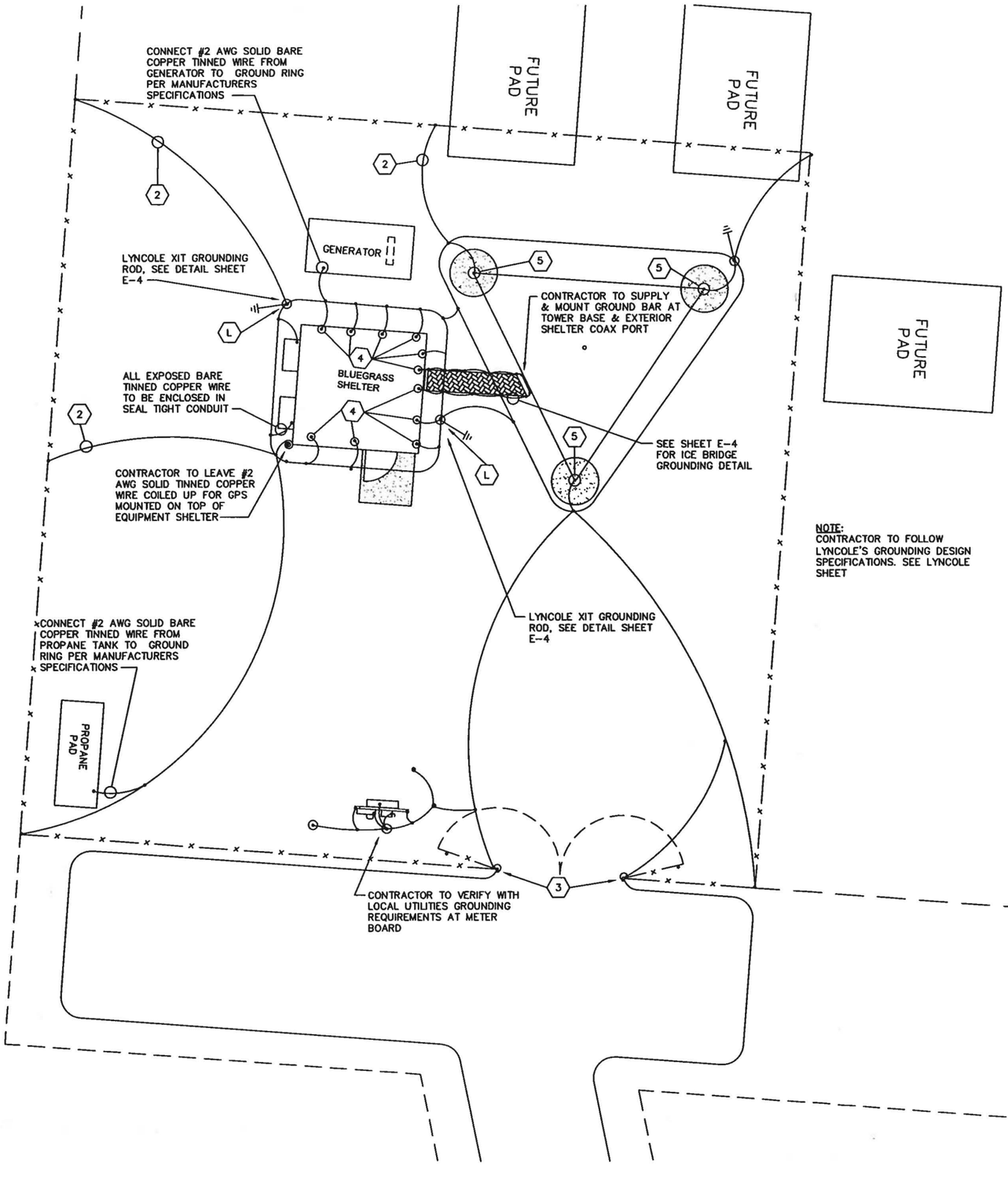


NOTES:

- CHAIN LINK FENCE
- BARE #2 TINNED SOLID COPPER CONDUCTOR BURIED 30 IN. BELOW GRADE OR 6 IN. BELOW FROST LINE
- BARE #2 TINNED SOLID COPPER CONDUCTOR IN NON-METALLIC FLEXIBLE CONDUIT
- ALL BENDS IN GROUND CONDUCTORS TO BE MADE WITH 12 IN. RADIUS OR LARGER
- K2L-10CS-24 (SEE DETAIL)
- 3/4 IN. X 10 FT. COPPER CLAD GROUND ROD (SEE DETAIL)
- EXOTHERMIC WELD
- TWO HOLE HIGH COMPRESSION LUG / HIGH COMPRESSION CRIMP
- GROUND BAR

LYNCOLE
TECHNICAL SERVICES
3547 VOYAGER STREET, SUITE 204
TORRANCE, CA. 90503
(800)962-2610 FAX (310)214-1114
ENGINEERING@LYNCOLE.COM

| | | | |
|---|---|---|---|
| CLIENT / END USER: RSB DESIGN / BLUEGRASS CELLULAR | | | |
| DRAWING: 1 | PROJECT NAME: ALBANY CAPACITY 2 | | |
| TITLE: GROUNDING OPTION | | | |
| LOCATION: CITY, STATE: ALBANY, KY | | CALCULATED RESISTANCE: < 5 OHMS | |
| DRAWN BY: BBD | APPROVED BY: | DATE: 02/27/2019 | |
| SOIL DATA PROVIDED BY: TERRACON | REFERENCE NUMBER: N/A | SCALE: NONE | LTS NUMBER: 201902-356 |




NOTE:
CONTRACTOR TO FOLLOW LYNCOLE'S GROUNDING DESIGN SPECIFICATIONS. SEE LYNCOLE SHEET

GENERAL ELECTRICAL NOTES:

1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.

2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.

3) GROUND RING TO BE CONTAINED WITH IN THE COMPOUNDS FENCED AREA.

4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POST & GATES. SPACE FENCE GROUNDING APPROXIMATELY 20'-0" O/C. (CAD WELD ALL CONNECTIONS)

5) ALL GROUND RING CONNECTIONS TO BE AS CLOSE AS POSSIBLE, SHARP BENDS WILL NOT BE PERMITTED AS WELL AS "T" CONNECTIONS. ALL CONNECTIONS TO HAVE A SWEEPING RADIUS OF 8" MINIMUM. GROUNDING CONFIGURATION TO BE IN PARALLEL.

6) CONTACT POINTS FOR GROUNDING TO BE CLEANED OF ANY RUST, PAINT, DIRT, ETC. TO CREATE A GOOD BOND FOR CONDUCTOR. AREA THAT HAS BEEN CLEANED TO BE RESEALED TO PREVENT RUSTING.

7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.

8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL BONDING, STAINLESS STEEL CONNECTORS ARE REQUIRED AT EACH CONNECTING POINT USING LOCK WASHERS.

9) CONTRACTOR RESPONSIBLE FOR SEEING THAT UTILITY PERSONNEL MAKE FINAL CONNECTIONS, MAKING SURE THE TOWER ALARM IS CONNECTED AND WORKING. A TELEPHONE NUMBER FOR THE ALARM MUST BE SUPPLIED.

10) CONTRACTOR RESPONSIBLE FOR MEG TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS.

NOTE:
CONTRACTOR TO PROVIDE WARNING TAPE IN ALL POWER & TELCO TRENCHES, 12" ABOVE CONDUIT RUNS, BUT BELOW FINISHED GRADE.

NOTE:
CONTRACTOR TO FOLLOW LYNCOLES GROUNDING SPECIFICATIONS WHEN USING THEIR XIT GROUNDING RODS. SEE DETAIL SHEET E-4.

KEYNOTES:

(L) LYNCOLE XIT GROUNDING ROD TO BE INSTALLED WHERE SHOWN AND TO MANUFACTURERS SPECIFICATIONS. (SEE LYNCOLE SPECIFICATIONS)

(1) GROUNDING RODS 10'-0" LONG x 3/4" COPPER BONDED GROUND RODS

(2) INSTALL AND PROVIDE SOLID BARE TINNED COPPER WIRE #2 AWG, GROUND RING BELOW GRADE 30". USE #2 AWG SOLID BARE TINNED COPPER GROUND "TAP" CONNECTING CONDUCTORS. (CONNECTIONS FOR ALL TAP CONDUCTORS TO BE PARALLEL AND "CAD WELD" CONNECTIONS)

(3) FLEXIBLE GROUNDING STRAP TO BE USED TO PROVIDE A COMMON BOND BETWEEN GATE AND CHAIN LINK FENCE, #2 AWG SOLID COPPER BARE TINNED CONDUCTOR FROM GROUND RING TO FENCE USING CAD WELD CONNECTIONS. GROUND TAP TO BE PROVIDED ON EACH 4 SIDES TO GROUND RING AS DESCRIBED ABOVE.

(4) BONDED GROUND TO BE PROVIDED TO GROUND RING FOR EACH OF THE FOLLOWING: BUILDING STEEL, HATCH PLATE, EMERGENCY RECEPTACLE, WAVE GUIDE STRUCTURE, FRAME WORK, BUILDING DISCONNECT.

(5) FOR TOWER FRAME GROUNDING, REMOVE GALVANIZED COATING COMPLETELY AT SPOT TO "CAD WELD" TO AND CLEAN. #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO BE CAD WELDED APPROXIMATELY 1'-0" ABOVE FOUNDATION OR AT FLANGE IF PROVIDED BY TOWER MANUFACTURER.

EXTEND CONDUCTOR TO GROUND RING. RIGHT ANGLES NOT ACCEPTED ALL BENDS TO BE SWEEPING.

# SITE PLAN-GROUNDING

SCALE: 3/32" = 1'-0"

RB Design
rbdesign1@bellsouth.net (502)599-9427

| NO. | DATE | REVISION |
|---|---|---|
| | | |

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
ALBANY CAPACITY 2
1385 OLD MONTICELLO RD. ALBANY, KY. 42602

DRAWN BY: R. BECKER
ISSUE DATE: 1-21-19
SCALE: LISTED

SHEET NUMBER
E-3

GENERAL NOTES:

1) THE CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT PICK UP DELIVERY TO SITE, ERECTION OF TOWER, AND CRANE SET, ALL COSTS INCURRED.

2) THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND REVIEWING EXISTING STRUCTURES OR UTILITIES THAT MIGHT BE LOCATED ON OR AROUND THE COMPOUND THAT COULD INTERFERE.

3) THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING LOCAL AUTHORITIES NECESSARY FOR INSPECTIONS IF REQUIRED, PLEASE PROVIDE AMPLE NOTICE.

4) THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PERSONS RESPONSIBLE FOR ANY MATERIALS TESTING, PLEASE PROVIDE AMPLE NOTICE.

5) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER WITH FINAL TEST RESULTS ON ALL MATERIALS TESTING. IF ANY PROBLEMS ARE FOUND PRIOR TO FINAL RESULTS PLEASE NOTIFY A&E OR OWNER IMMEDIATELY.

6) THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJOINING PROPERTY, AND REPAIRING OR REPLACING WHAT IS NECESSARY TO OWNERS APPROVAL.

7) THE CONTRACTOR IS TO VERIFY DIMENSIONS ON SITE PRIOR TO CONSTRUCTION STARTING, ANY PROBLEMS OR CHANGE FOUND CONTACT A&E OR OWNER TO VERIFY.

8) THE CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY LIGHTING ON THE TOWER AND CONTACTING PROPER AUTHORITIES IF ANY LIGHTING PROBLEMS OCCUR, ALL FINAL LIGHTING TO BE MOUNTED ON TOWER DURING CONSTRUCTION, NOTIFY OWNER WHEN TOWER HAS REACHED FINAL HEIGHT.

9) THE CONTRACTOR IS RESPONSIBLE FOR ALL ON SITE WORK MEANS AND METHODS.

10) CONTRACTOR, ANY CONTRACTOR EMPLOYEES OR REPRESENTATIVES, OR SUB-CONTRACTOR, ANY SUB-CONTRACTOR EMPLOYEES OR REPRESENTATIVES, WILL CONFORM TO ALL LAWS AND REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED, INCLUDING BUT NOT LIMITED TO, ALL OCCUPATIONAL SAFETY AND HEALTH ACT ("OSHA") STATUTES AND REGULATIONS AS WELL AS ALL OTHER FEDERAL, STATE AND/OR LOCAL LAWS OR REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED BY CONTRACTOR.

11) THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SITE DRAINAGE, AND PROVIDING SILT AND EROSION CONTROL NECESSARY TO MAINTAIN ANY RUN OFF.

12) THE CONTRACTOR IS RESPONSIBLE FOR ALL SEED AND STRAW WORK NECESSARY TO REPAIR DAMAGED AREAS.

13) CONTRACTOR TO GRADE SMOOTH OR REPAIR ANY POT HOLES OR DITCHING ON PROPERTY OR ROAD THAT HAS OCCURRED DURING CONSTRUCTION AT CONTRACTORS EXPENSE.

14) CONTRACTOR'S RESPONSIBILITIES REGARDING BUILD OUT ON FIBREBOND EQUIPMENT SHELTERS TO INCLUDE:

* INSTALLING THE DOOR CANOPY
* INSTALLING EXTERIOR LIGHT ON WALL DETERMINED BY PROJECT SUPERVISOR AND PHOTOCELL REQUIREMENTS
* INSTALLING INTRUDER ALARMS
* CHECK OPERATIONS OF DOOR AND DOOR HARDWARE
* ADJUST WEATHERSTRIPPING ON DOORS AS NEEDED
* INSPECT ROOF FOR DAMAGE AND POSSIBLE LEAKS
* INSPECT INTERIOR FINISH FOR IMPERFECTIONS AND REPAIR AS NEEDED
* CHECK OPERATION OF LIGHTS AND ELECTRICAL OUTLETS
* CHECK OPERATION OF INTAKE AND EXHAUST LOUVERS AND ADJUST AS NEEDED
* CHECK OPERATION OF ENVIRONMENTAL CONTROLS AND HVAC UNITS
* INSTALL AND PAINT SHELTER TIE-DOWNS TO MATCH

15) INSTALL CONCRETE PADS FOR BUILDING, PROPANE TANK, GENERATOR PAD.

16) INSTALL ELECTRIC AND GROUND FIELD FOR COMPOUND.

17) GC WILL BE RESPONSIBLE FOR ALL CRANE OPERATIONS IN ORDER TO SET FIBREBOND BUILDING. COORDINATE BUILDING DELIVERY DATE THROUGH BLUEGRASS CELLULAR.

18) GC WILL BE RESPONSIBLE FOR OFF LOADING AND STACKING OF TOWER WHEN APPLICABLE.

19) GC WILL BE RESPONSIBLE FOR MOUNTING ALL LINES AND ANTENNAS.

20) GC WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ICE BRIDGE.

21) GC WILL BE RESPONSIBLE FOR SCHEDULING PROPANE TANK DELIVERY AND HOOK-UP. PREFERRED SUPPLIERS ARE EMPIRE & AMERIGAS

22) GC WILL BE RESPONSIBLE FOR COORDINATING THE CLEANING OF THE INSIDE OF THE BUILDING WITH THE PROJECT SUPERVISOR AFTER THE SITE HAS BEEN TURNED OVER TO THE OPERATIONS DEPARTMENT AND ALL TURN-UP PROCEDURES HAVE BEEN COMPLETED. THIS WILL INCLUDE SUPPLYING A 30 GALLON TRASHCAN, 30 GALLON TRASH BAGS, BROOM, DUST PAN AND DOORMAT FOR BUILDING.

23) GC TO VERIFY ALL BLUEGRASS CELLULAR EQUIPMENT DIMENSIONS & SPECIFICATIONS WITH MANUFACTURER'S DRAWINGS, (FIBREBOND, GENERAC, EASTPOINTE ETC.) PRIOR TO CONSTRUCTION. ADDRESS ANY ISSUES WITH PROJECT SUPERVISOR BEFORE WORK BEGINS.

24) ALL WAREHOUSE MATERIAL (LINES, ANTENNAS, MOUNTING HARDWARE, GENERATOR, TOWER FOUNDATION KIT, ETC.) WILL NEED TO BE PICKED UP BY GC.

25) GC WILL BE RESPONSIBLE FOR SCHEDULING GENERATOR START-UP WITH CONTACT SCOTT ANDERSON (EVAPAR) 502-267-6315

26) T1 CONDUIT WILL NEED TO BE PLACED FROM POLE TO BUILDING. (IF A MICROWAVE DISH IS USED, THE T1 CONDUIT WILL STILL BE INSTALLED FOR FUTURE USE.)

27) GC WILL BE RESPONSIBLE FOR INSTALLATION OF ALL FENCING.

28) ALL TRASH AND DEBRIS TO BE REMOVED BY GC

29) GC WILL BE RESPONSIBLE FOR APPLYING FOR ELECTRICAL SERVICE AND PAYING NECESSARY FEES REQUIRED.

30) GC WILL BE RESPONSIBLE FOR SUPPLYING & INSTALLING PROTECTIVE END CAPS ON ANY EXPOSED THREADED ROD OR UNISTRUT USED ON SITE. VERIFY TYPE WITH PROJECT SUPERVISOR PRIOR TO INSTALLATION.

31) GC WILL BE RESPONSIBLE FOR HAVING A CERTIFIED ELECTRICIAN HOOK UP THE BATTERIES (IMMEDIATELY) AFTER POWER HAS BEEN TURNED UP AT THE SITE, PREVENTING THE DELAY OF ANY WORK FOR OPERATIONS. THE GENERAL CONTRACTOR MUST NOTIFY THE PROJECT SUPERVISOR IMMEDIATELY AT THIS TIME SO HE CAN COORDINATE A CELL TECH TO BE ONSITE WHEN THIS OCCURS.

32) GC WILL BE RESPONSIBLE FOR RUNNING (CAT5) FROM THE GENERATOR ALARM PANEL MOUNTED ON THE SIDE OF THE TRANSFER SWITCH (BY THE CONTRACTOR), THROUGH THE TRANSFER SWITCH AND UP TO THE EXISTING CONDUIT BESIDE THE A/C POWER FAIL RELAY. THE (CAT5) WILL BE PULLED THROUGH EXISTING CONDUIT AROUND THE SHELTER AND EXTENDED TO THE ALARM BLOCK. THERE SHOULD BE A MINIMUM 3'-0" OF (CAT5) LEFT HANGING ON EACH END FOR THE CELL TECH TO HOOK UP THE GENERATOR ALARMS.

33) GC MUST SUBMIT A COPY OF THE BUILDING PERMIT AND CONSTRUCTION SCHEDULE TO THE PROJECT SUPERVISOR PRIOR TO RECEIVING (NTP) TO BEGIN CONSTRUCTION (NO EXCEPTIONS).

34) GC MUST DISPLAY FCC TOWER REGISTRATION NUMBER AND EMERGENCY PHONE NUMBERS ON 3'-0 X 4'-0" MINIMUM WOODEN BACKBOARD SOMEWHERE ON SITE LOCATION PRIOR TO BREAKING GROUND.

GRADING & EXCAVATING NOTES:

1) ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, ROADS AND PARKING AREAS TO BE REPAIRED OR REPLACED TO OWNERS SATISFACTION.

2) PREPARATION FOR FILL:
REMOVAL OF ALL DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, TOPSOIL, VEGETATION, AND HARMFUL MATERIALS FROM SURFACE OF GROUND PRIOR TO PLOWING, STRIPPING, PLACING FILLS OR BREAKING UP OF SLOPED SURFACES GREATER THAN 1 VERTICAL TO 4 HORIZONTAL SO MATERIAL FOR FILL WILL BOND TO EXISTING SURFACE. WHEN AREA TO RECEIVE FILL HAS A DENSITY LESS THAN REQUIRED, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, AERATE, MOISTURE - CONDITION, OR PULVERIZE SOIL AND RECOMPACT TO REQUIRED DENSITY.

3) BACK FILLING:
- EXCAVATED AREA SHALL BE CLEARED FROM STONES OR CLODS OVER 2 1/2" MAXIMUM DIAMETER
- SHALL BE PLACED IN LAYERS OF 6" AND COMPACTED TO A 95% STANDARD PROCTOR, USE A 90% PROCTOR IN GRASSED / LANDSCAPED AREAS WHERE REQUIRED.
- SHALL BE APPROVED MATERIALS CONSISTING OF SANDY CLAY, GRAVEL AND SAND. SOFT SHALE, EARTH OR LOAM. CONSULT WITH OWNER PRIOR TO FILL BEING ADDED.

4) ALL MATERIAL FOR FILL TO BE APPROVED BY OWNER AND ALL COMPACTING TEST TO BE COMPLETED TO SPEC'S ALL COMPACTING RESULTS TO BE TURNED OVER TO OWNER.

5) AFTER COMPLETION OF BELOW GRADE EXCAVATING, AREA TO BE CLEANED AND CLEARED OF ANY UNSUITABLE MATERIALS, SUCH AS TRASH, DEBRIS, VEGETATION AND SO FORTH.

6) ANY EXCAVATING IN WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND UNFROZEN SOIL AND BE FREE OF ANY LOOSE MATERIAL AND EXCESS GROUND WATER.

7) IF SOUND SOIL IS NOT REACHED AT DESIGNATED EXCAVATION DEPTH, THE POOR SOIL IS TO BE EXCAVATED TO ITS FULL DEPTH AND EITHER REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION TO BE FILLED WITH THE SAME QUALITY CONCRETE SPECIFIED FOR THE FOUNDATION. PLEASE NOTIFY THE PROJECT SUPERVISOR AND THEY WILL HAVE A 3RD PARTY ENGINEERING FIRM CONTACT YOU WITH RECOMMENDATIONS.

8) MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATIONS TO BE USED IF EXCAVATION EXCEEDED THE OVERALL REQUIRED DEPTH. FOR STABILIZATION OF THE BOTTOM OF THE EXCAVATION, CRUSHED STONE MAY BE USED. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS. PLEASE NOTIFY THE PROJECT SUPERVISOR AND THEY WILL HAVE A 3RD PARTY ENGINEERING FIRM CONTACT YOU WITH RECOMMENDATIONS.

9) EXCAVATION TO COMPOUND TO INCLUDE WEED CONTROL MAT.

10) SITE TO HAVE PROPER DRAINAGE & EROSION CONTROL (CROWNED FORMATION)

11) GC WILL BE RESPONSIBLE FOR REPAIR OF ALL AREAS DISTURBED DURING CONSTRUCTION. (EXCAVATING ISSUES)

"CALL BEFORE YOU DIG"

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE UTILITY PROTECTION CENTER, PHONE 811 IN KENTUCKY , WHICH WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. ALL NEW SERVICE AND GROUNDING TRENCHES PROVIDE A WARNING TAPE @ 12 INCHES BELOW GRADE.

SYMBOLS LEGEND

- KEYNOTE
- INSPEC. SLEEVE / GRND ROD
- INSPECTION SLEEVE
- CAD WELD CONNECTION
- T — TRANSFORMER
- LA — LIGHTNING SUPPRESSOR
- SWITCH (DISCONNECT)
- M — METER PACK
- P — POWER
- G — GAS LINE
- W — WATER LINE
- SS — SANITARY SEWER
- T — TELEPHONE
- SSD — STORM SEWER DRAIN
- X — FENCE

RSB DESIGN
rsbdesign1@bellsouth.net (502)599-9427

| NO. | DATE | REVISION |
|---|---|---|
| | | |

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
ALBANY CAPACITY 2
1385 OLD MONTICELLO RD. ALBANY, KY. 42602

DRAWN BY: R. BECKER
ISSUE DATE: 1-21-19
SCALE: LISTED

SHEET NUMBER
General Notes

LANDMARK SURVEYING CO., INC.

15 N.E. 3RD STREET · WASHINGTON, INDIANA 47501
PHONE: 812.257.0950 · WEBSITE: WWW.LANDMARKSURVEYINGCO.COM
DARREN L. HELMS, P.S., PRESIDENT
DENNIS N. HELMS, P.S., CPESC, VICE-PRESIDENT

# Directions to the Site

## From the County Seat of Clinton County, Kentucky

**Albany Capacity 2 Site**

From the Clinton County courthouse in downtown Albany, Kentucky: travel east on Cumberland Street (changes to Old Monticello Road or Kentucky Highway 350 after leaving Albany) for 1.3 miles to the tower access drive on the north side of the road; turn left onto the drive and travel north for 650 feet (passing through a barn lot) to the tower site on a ridge in an agricultural field. The address of the site is 1350 Old Monticello Road, Albany, Kentucky 42602.

Darren L. Helms

Darren L. Helms, P.L.S. 3386

STATE OF KENTUCKY
DARREN L. HELMS
3386
LICENSED
PROFESSIONAL
LAND SURVEYOR

Jan. 16, 2019

Date

Site Name: Albany Capacity 2

# OPTION TO LEASE AND LEASE AGREEMENT

## I.

## OPTION TO LEASE REAL PROPERTY

**THIS OPTION TO LEASE REAL PROPERTY** (the "Option Agreement") is made and entered into this 10 day of December 20 18, by and between Carrie B. Asberry, formerly known as Carrie B. Hensley, whose address is 610 E. Cumberland Street, Albany, KY 42602 (the "Optionor (s)" and Cumberland Cellular Partnership (a Kentucky general Partnership) with principal office and place of business at 2902 Ring Road, Elizabethtown, KY 42701 (the "Optionee").

**WITNESSETH:**

**WHEREAS,** the Optionor(s) is the owner of certain real property located in Clinton County, **Kentucky** as more particularly described on Exhibit A attached hereto and incorporated herein by reference (the "Property"); and

**WHEREAS,** the Optionor(s) wishes to grant to the Optionee, and the Optionee wishes to obtain from the Optionor(s), an option to lease a portion of the Property upon the terms and conditions set forth herein;

**NOW, THEREFORE,** in consideration of the foregoing premises and for other good and valuable consideration, the mutuality, receipt and sufficiency of which are hereby acknowledged, the parties hereto do agree as follows.

1. In consideration of the payment of **One Thousand Eight Hundred Dollars and Zero Cents ($1,800.00)** paid by the Optionee to the Optionor(s) (the "Option

Consideration"), the receipt of which is hereby acknowledged by the Optionor(s), the Optionor(s) hereby grants to the Optionee an exclusive and irrevocable option to lease a portion of the Property upon the terms and conditions hereinafter set forth (the "Option") for a period of eighteen (18) months, commencing on the date of full execution (the "Option Period"), as set forth in Paragraph 5 thereof.

2. The parties hereto anticipate that the portion of the Property which is the subject of this Option will comprise approximately a **One Hundred Foot by One Hundred Foot** area, together with a right of way across the Property for the purposes of ingress and egress throughout the term of the lease. The Optionee shall obtain an accurate survey of the portion of the Property to be leased by it by a registered land surveyor licensed in the Commonwealth of Kentucky at the sole expense of the Optionee. A copy of the survey shall be provided to the Optionor(s). The description of the portion of the Property to be leased by the Optionee, including the right of way, shall be determined by the surveyor and shall hereafter be referred to as the "Leased Premises." The Optionee shall obtain said survey within a reasonable time following the date of the Option Agreement.

3. During the term of the Option, the Optionee may enter onto the Property at its own risk to obtain soil samples and to bore soil for the purposes of determining the suitability of the Leased Premises for a communications tower.

4. Upon the Optionee's proper exercise of the Option in accordance with Paragraph 5 hereof, the Optionor(s) shall be deemed to have immediately executed, acknowledged and delivered to the Optionee the Lease Agreement contained in Section II hereof. The description of the Leased Premises shall be that determined by the registered land surveyor in accordance with Paragraph 2 hereof.

5. If the Optionee elects to exercise the Option in accordance with the terms hereof, notice of such election shall be deemed sufficient if personally delivered or sent by

registered or certified mail, return receipt requested, to the address of the Optionor(s) set forth in Paragraph 14 hereof.

6. The Optionor(s) agrees not to sell, lease or offer for sale or lease the Property, or any portion thereof, during the term of this Option or any renewal or extension of the Option.

7. In the event the Optionee fails to exercise the Option as set forth herein (unless such failure is due to the discovery of a defect in the Leased Premises or other matter unsatisfactory to the Optionee), the Optionor(s) shall have the right to retain the Option Consideration.

8. The Optionee may assign this Option with written consent of the Optionor(s), which consent shall not be unreasonably withheld, and upon any assignment such assignee shall have all the rights, remedies and obligations as if it were the original Optionee hereunder. From and after any such assignment, the term "Optionee" shall refer to such assignee.

9. Each party hereto shall bear any and all of its own expenses in connection with the negotiation, execution or settlement of this Option.

10. Risk of loss with respect to the Property during the term of this Option and during the term of the lease shall be upon the Optionor(s). If, during the term of the Option, any portion of the Leased Premises shall be acquired by public authority under the right or threat of eminent domain, the Optionee may, at its sole option, either (i) exercise the Option, and in such event, all sums received from the public authority by the Optionor(s) by reason of the taking of a portion of the Leased Premises shall reduce the rent due under the lease, or (ii) terminate this Option and thereupon the Optionor(s) shall be obligated to return to the Optionee the full amount of the

Option Consideration previously paid to the Optionor(s) in "good and collected funds."

11. The parties hereto represent to each other that neither has engaged any broker to represent their interests in connection with the transactions contemplated hereby, and each agrees to indemnify the other against any and all claims made by any brokers engaged or purported to be engaged by the other for brokerage commissions or fees in connection with the transactions contemplated hereby.

12. The Optionor(s) represents, warrants and covenants to the Optionee that the Optionor(s) has not caused or permitted, and shall not cause or permit, and to the best of Optionor(s)' knowledge no other person has caused or permitted any hazardous material (as defined by any applicable federal, state or local law, rule or regulation) to be brought upon, placed, held, located or disposed of at the Leased Premises. In the event any such contamination occurs for which the Optionee becomes legally liable, the Optionor(s) shall indemnify the Optionee against all claims, damages, judgments, penalties and costs and expenses, including reasonable attorneys' fees, which Optionee may incur.

13. This Option Agreement and the rights and obligations of the parties hereto shall be construed in accordance with the laws of the Commonwealth of Kentucky.

14. For the purposes of giving notice as permitted or required herein, the address of the Optionor(s) shall be: **610 E. Cumberland Street, Albany, KY 42602**; the Optionee's address shall be: P.O Box 5012, Elizabethtown, KY 42702-5012. Any inquiry by the Optionor to the Optionee regarding the terms and conditions of the Option Agreement or Lease Agreement, or otherwise related to the Option Agreement or Lease Agreement, shall be made in writing and submitted to the attention of the Optionee's Lease Administrator at the above address.

15. The parties agree that without the express written consent of the other party, neither party shall reveal, disclose or publish to any third party the terms of this Option Agreement or Lease Agreement or any portion thereof, except to such party's auditor, accountant, lender, attorney or to a government entity if required by regulation, subpoena or government order to do so. Notwithstanding the foregoing, either party may disclose the terms of this Option Agreement or Lease Agreement to any of its affiliated entities, and Optionee may disclose the terms of this Option Agreement or Lease Agreement to any of its lenders or creditors or to third parties that are potential lessees or licensees of space at the Leased Premises as may be reasonably necessary with respect to the operation, leasing, licensing and marketing of the Leased Premises.

16. The Optionee shall have the right, in its sole discretion, to record this Option in the Office of the Clerk of the County Court of Clinton County, Kentucky.

## II.

## LEASE AGREEMENT

17. In the event the Optionee elects to exercise the Option to lease the Leased Premises, the terms of the Lease Agreement ("Lease Agreement" or "Lease") shall become immediately effective upon such exercise and shall be as follows.

a. The term of the Lease shall commence on the date that the Optionor(s) receives proper notice that the Optionee has exercised the Option, pursuant to Paragraph 5 therein. The initial term shall expire **five (5) year(s)** from the commencement date of the Lease Agreement and shall include **six (6) additional five (5)-year terms** per the Lease Agreement. Optionee may, by providing written notice at least sixty (60) days prior to the expiration of the

original or any renewal Lease term, elect to unilaterally terminate this Lease at the end of any original or renewal Lease term. Such notice must be personally delivered or sent via registered or certified mail, return receipt requested, to the address of the Optioner(s) set forth in Paragraph 14 hereof. The Lease amount shall be adjusted at the end of each term by an increase of **12%**.

b. The Optionee shall pay to the Optionor(s) rent for the Leased Premises in the sum of Four Thousand Eight Hundred Dollars and Zero Cents ($4,800.00) yearly, to be paid in advance. All rent payments shall be personally delivered or mailed to the Optionor(s) at the address set forth in Paragraph 14 hereof. Any check payment of the rent due under the Lease shall be payable to the order of Optionor(s).

c. The Optionee shall be entitled to use and occupy the Leased Premises for the purpose of erecting, maintaining and operating a communications tower ("Tower") and communications facilities ("Facilities") thereon and for all such other uses as Optionee may, in its sole discretion, deem necessary in connection therewith.

d. The Optionor(s) hereby grants Optionee easements on, under and across the Property for ingress, egress, utilities and access (including access for the purposes described in Paragraph 2) to the Leased Premises adequate to install and maintain utilities, including, but not limited to, the installation of power and telephone service cable, and to service the Leased Premises and the Tower and Facilities at all times during the Initial Term of the Lease and any Renewal Term ("Easement"). The Easements provided hereunder shall have the same term as this Lease.

e. In the event the Property is encumbered by a mortgage or deed of trust, Optionor(s) agrees, upon request of Optionee, to obtain and furnish to Optionee a non-disturbance and attornment agreement for each such mortgage or deed of trust.

f. The Optionor(s) shall be responsible for the payment of all real estate taxes which shall be assessed against the Property during the term of the Lease. In the event Optionor(s) fails to pay, when due, real estate taxes assessed against the Property ("Delinquent Taxes"), Optionee shall have the right, but not the obligation, to pay said Delinquent Taxes on Optionor(s) behalf and withhold such amount from future rental payments described in Paragraph 17(b) above. Optionee's election to pay any Delinquent Taxes in no way binds or obligates Optionee to continue to pay any such Delinquent Taxes thereafter. The responsibility to pay all real estate taxes assessed against the Property remains with Optionor(s). The Optionee shall pay all charges for heat, water, gas, electricity, sewer use charges and any other utility used or consumed on the Leased Premises. The Optionee shall, at its own cost and expense, maintain and keep in full force and effect during the term of the lease public liability insurance with coverage in the amount of at least one million dollars ($1,000,000.00) per person for bodily injury, disease, or death and shall maintain property insurance on any property of the Optionee located on the Leased Premises.

g. The Optionee may assign the lease. The Optionee may sublet all or part of the space on the tower or ground space.

h. The Optionor(s) covenants that upon the Optionee's payment of the rent agreed upon herein, as well as Optionee's observing and performing all of the covenants and conditions contained in the Lease, the Optionee may

peacefully and quietly enjoy the Leased Premises subject to the terms and conditions set forth in the Lease.

i. The Optionee agrees to maintain an access road in a passable manner for the term of the lease.

j. Optionee's Payment of Taxes, Fees and Assessments. Optionee shall pay directly to the applicable federal, state or local governmental unit or agency ("Governmental Entity") or to Optionor if Optionor is invoiced by such Governmental Entity, all taxes, fees, assessments or other charges assessed by any Governmental Entity directly against Optionee's Equipment and/or Optionee's use of the Facilities. Optionee shall also pay to Optionor Optionee's Pro Rata Share of all taxes, fees, assessments or charges including, but not limited to, personal property taxes attributable to Optionee's equipment and antenna(s), municipal franchise fees, use fees, municipal application fees, installation fees and increases thereof. "Pro Rata Share" shall mean the fraction of decimal equivalent of dividing one (1) by the total number of then existing users occupying a tower on the last day of the applicable calendar year.

18. This Option and Lease Agreement contains the entire agreement between the parties hereto and no modification or amendment shall be binding upon any party unless made in writing and signed by each of the parties hereto.

19. Upon the termination or other end of this Lease Agreement, Optionee shall have the right to remove any and all of its property (real or personal) from the Leased Premises regardless of whether or not such property may be considered a fixture thereto.

20. Upon abandonment of the property, Optionee shall have thirty (30) days to dismantle and remove the Tower and any/all equipment located on Optionor's property.

21. Before any interest in Optionor(s)' interest in the Lease, or any part thereof, is sold, assigned or transferred in any manner whatsoever (with or without consideration), the Optionee shall have a right of first refusal to acquire whatever interest in the Lease that the Optionor(s) proposes to transfer (the "Proposed Transfer"), on the terms and conditions set forth in this Paragraph 21 (the "Right of First Refusal").

a. Optionor(s) shall deliver to the Optionee a written notice (the "Notice") stating (i) the name of the proposed purchaser or transferee and the material terms and conditions of the Proposed Transfer, together with a complete copy of any written offer made to the Optionor(s) to acquire any interest in the Lease ("Offer").

b. At any time within thirty (30) days after receipt of the Notice, the Optionee may, by giving written notice to the Optionor (s) ("Optionee's Notice"), elect to exercise its Right of First Refusal and acquire the interest in the Lease proposed to be transferred pursuant to the Proposed Transfer at the purchase price and on the same terms and conditions as are contained in the Offer. If the Offer includes consideration other than cash, the cash equivalent value of the non-cash consideration shall be determined by the Optionee in good faith. In the event, Optionee exercises its right to acquire the interest in the Lease, the Optioner(s) shall convey, assign and/or transfer said interest to Optionee free and clear of all liens and encumbrances whatsoever (other than this Lease, which Lease shall remain in effect). All taxes, rents and other assessments applicable

to the transferred interest, if any, shall be prorated to the date of closing. The Closing shall occur within thirty (30) days from the date of Optionee's Notice.

c. If the Optionee declines to exercise its Right of First Refusal to acquire the interest in the Lease proposed to be transferred, the Optioner(s) may sell or transfer same in accordance with the terms of the Offer subject, however, to this Lease and the Optionee's rights thereunder.

[Remainder of Page Intentionally Left Blank]

## EXECUTION OF AGREEMENT(S)

**IN WITNESS WHEREOF,** the parties hereto have set their hands and affixed their respective seals.

**Print Name:** Carrie B. Asberry
**Sign:** _____
**Date:** 12-7-18
**("Optionor(s)")**
**Property Owner(s)**

**Sign:** _____
**Date:** 12-10-18
**("Optionee")**
**By: Doug Updegraff**
**Authorized Representative**

STATE OF Kentucky
COUNTY OF Clinton

The foregoing instrument was acknowledged before me this 7 day of Dec, 20 18, by Carrie B. Asberry, formerly known as Carrie B. Hensley to be her free act and deed.

NOTARY PUBLIC STATE AT LARGE

My commission expires: 12/4/2022

STATE OF KENTUCKY
COUNTY OF HARDIN

The foregoing instrument was acknowledged before me this 7 day of December, 20 18, by, **Doug Updegraff**, as Authorized Representative on behalf of Cumberland Cellular Partnership (a Kentucky general Partnership), to be his free act and deed.

NOTARY PUBLIC STATE AT LARGE

My commission expires: 1-21-21

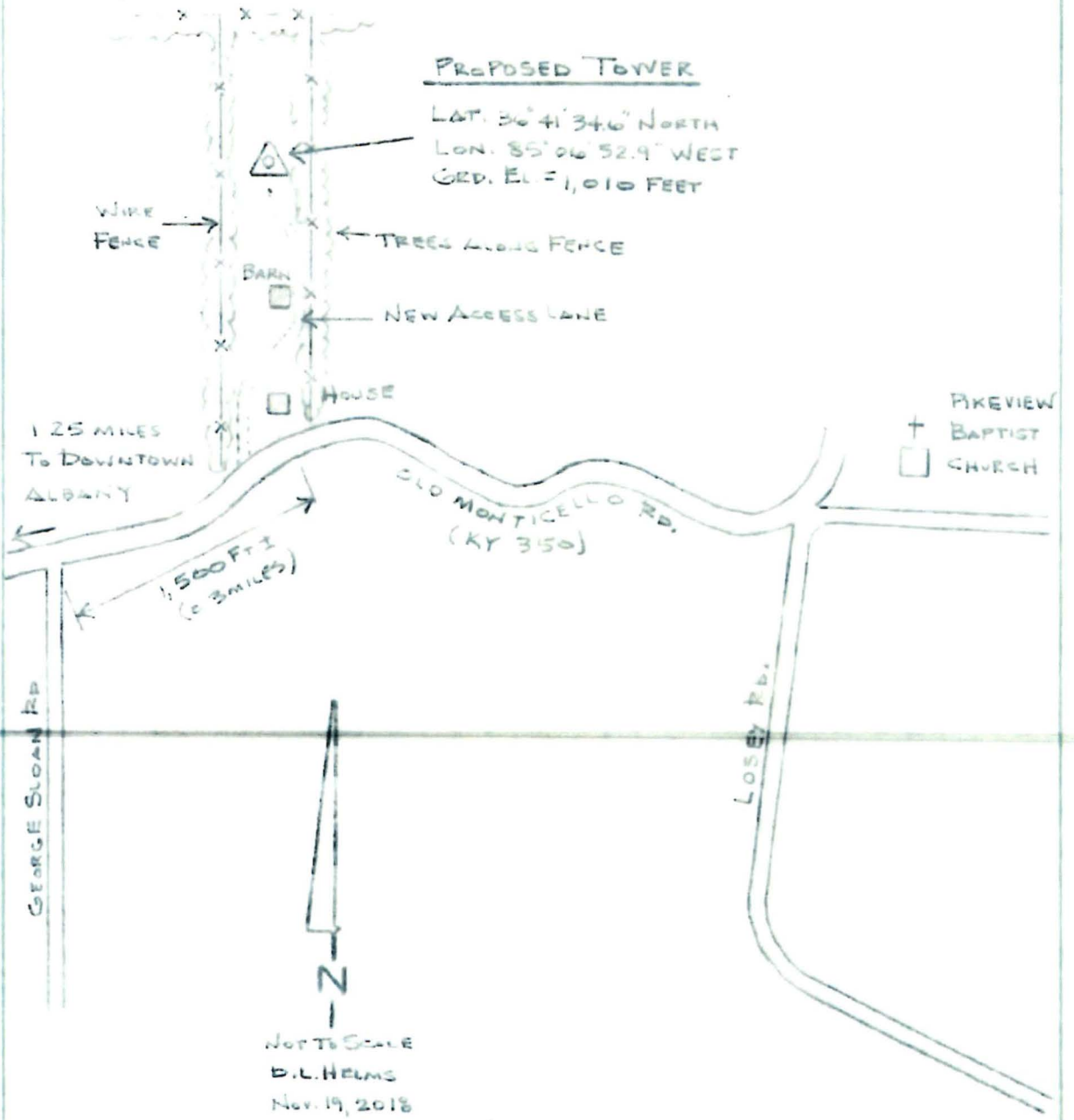
This instrument prepared by:

John R. Rhorer, Jr.
**DINSMORE & SHOHL LLP**
250 West Main Street, Suite 1400
Lexington, KY 40507
(859) 425-1000

# Exhibit A

# ALBANY CAPACITY 2

## SITE SKETCH



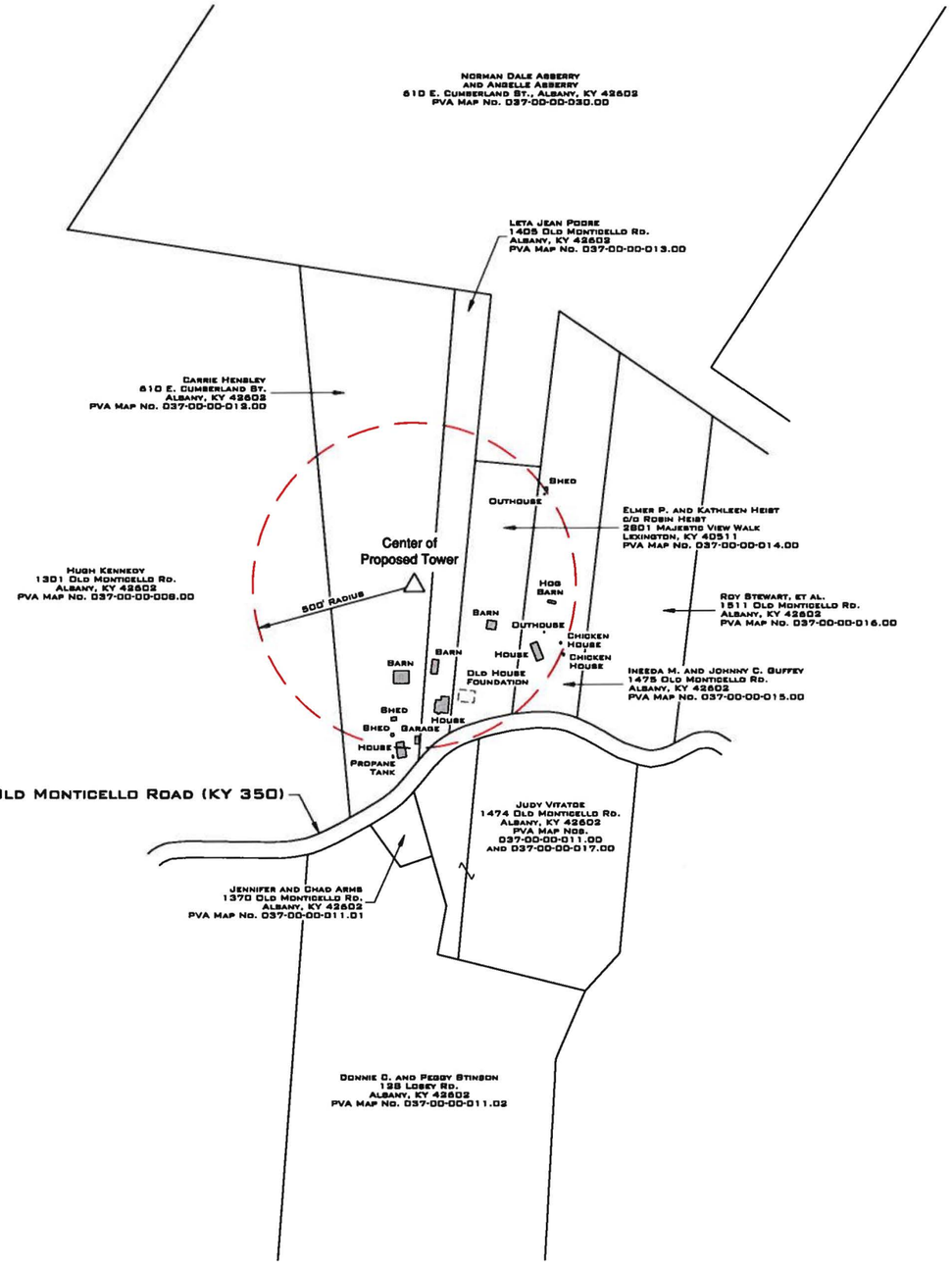


LANDMARK SURVEYING CO., INC.
15 N.E. 3RD ST.
WASHINGTON, IN 47501
(812) 254-0850

# SITE: ALBANY CAPACITY 2

## 500-Foot Radius Map for Structures and Landowners

## Clinton County, Kentucky




GRAPHIC SCALE

200 0 100 200 400 600

( IN FEET )

1 INCH = 200 FT.

**Note**

THE LOCATION OF THE BOUNDARIES SHOWN ARE APPROXIMATE, AND THEY ARE BASED UPON INFORMATION ON FILE IN THE OFFICE OF THE PROPERTY VALUATION ADMINISTRATOR OF CLINTON COUNTY, KENTUCKY.

**Engineer's Certification**

I HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THIS PLAT IS IN COMPLIANCE WITH REQUIREMENTS ESTABLISHED BY KRS 100.9865 (11).

Hogan L. Helms

HOGAN L. HELMS, P.E. 33385

MAY 29, 2019

DATE

STATE OF KENTUCKY
HOGAN L. HELMS
33385
LICENSED
PROFESSIONAL ENGINEER

**Land Surveyor's Certification**

I HEREBY CERTIFY THAT THE INFORMATION SHOWN IS CORRECT TO THE BEST OF MY KNOWLEDGE; AND IT IS IN ACCORDANCE WITH THE RECORDS FOUND IN THE OFFICE OF THE PROPERTY VALUATION ADMINISTRATOR OF CLINTON COUNTY, KENTUCKY ON JANUARY 8, 2019.

Darren L. Helms

DARREN L. HELMS, P.L.S. 3385

MAY 29, 2019

DATE

STATE of KENTUCKY
Darren L. Helms
3385
LICENSED
PROFESSIONAL
LAND SURVEYOR


LANDMARK SURVEYING CO., INC.
15 N.E. 3RD STREET
WASHINGTON, INDIANA 47501
(812) 257-0950
WEBSITE: LANDMARKSURVEYINGCO.COM


Project No. 19-01-0100



500-Foot Radius Map

1385 Old Monticello Road

Albany, Kentucky 42602

Bluegrass Cellular

2902 Ring Road

Elizabethtown, KY 42701

| REVISIONS | DATE |
|---|---|
| ADDED ENG. CERT. | 5-29-19 |
| | |
| | |
| | |
| | |

| DATE | DRAWN BY | CHECKED BY |
|---|---|---|
| Jan. 16, 2019 | D.L. Helms | D. L. Helms |

SHEET No.

1

of 1 SHEETS

FILE NAME

albany-radius.dwg

**COMMONWEALTH OF KENTUCKY**

**BEFORE THE PUBLIC SERVICE COMMISSION**

**In the Matter of:**

**APPLICATION OF CUMBERLAND CELLULAR PARTNERSHIP FOR ISSUANCE OF A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY TO CONSTRUCT A CELL SITE (ALBANY CAPACITY 2) IN RURAL SERVICE AREA #5 (CLINTON) OF THE COMMONWEALTH OF KENTUCKY**

**CASE NO. 2019-00042**

## AFFIDAVIT OF JOHN E. SELENT

I, John E. Selent, being duly sworn, depose and state as follows:

1. My name is John E. Selent H. Sharpe and I am a member of the Kentucky Bar Association. I am legal counsel to Cumberland Cellular Partnership d/b/a Bluegrass Cellular and am submitting this affidavit in conjunction with the above referenced matter.

2. In order to demonstrate compliance with 807 KAR 5:063 §1(1)(l) & (m), Exhibit 1 identifies, with the exception of the individual identified in paragraph 4, the names of the residents/tenants and property owners within 500 feet of the proposed tower who have been: (i) notified by written notice of the proposed construction, sufficient postage prepaid, by United States Certified Mail, return receipt requested; (ii) given the Commission docket number under which the application will be processed; and (iii) informed of the right to request intervention.

3. Attached as Exhibit 2 is a copy of the United States Certified Mail return receipt requested that demonstrates proof of service of the written notice of the proposed construction upon: (1) Elmer P. and Kathleen Heist; (2) Carrie Hensley; (3) Roy Stewart, et al.; (4) Hugh Kennedy; (5) Judy Vitatoe; (6) Ineeda M. and Johnny C. Guffey; (7) Jennifer and Chad Arms; (8) Donnie C. and Peggy Stinson; and (9) Norman Dale Asberry and Angelle Asberry.

4. Service of the written notice of the proposed construction was attempted upon Leta Jean Poore, (see Exhibit 1) via United States Certified Mail pursuant to 807 KAR 5:063 §1(1)(l) & (m). Leta Jean Poore was not served with a copy of the written notice of the proposed construction via United States Certified Mail. Therefore, another copy of the written notice of the proposed construction was sent to Leta Jean Poore via Federal Express and United States First Class Mail. Leta Jean Poore was served via Federal Express on Wednesday, April 3, 2019 (See Exhibit 3).

Further Affiant saith not.

John E. Selent

COMMONWEALTH OF KENTUCKY )
)SS:
COUNTY OF JEFFERSON )

SUBSCRIBED AND SWORN to before me this 12th day of July, 2019

My commission expires: 6-2-2022

Notary Public

LANDMARK SURVEYING CO., INC.
15 N.E. 3RD STREET · WASHINGTON, INDIANA 47501
PHONE: 812.257.0950 · WEBSITE: WWW.LANDMARKSURVEYINGCO.COM
DARREN L. HELMS, P.S., PRESIDENT
DENNIS N. HELMS, P.S., CPESC, VICE-PRESIDENT

# Landowner and Adjacent Landowner List

**Albany Capacity 2 Site**

Leta Jean Poore
1405 Old Monticello Rd.
Albany, KY 42602

Elmer P. and Kathleen Heist
c/o Robin Heist
2801 Majestic View Walk
Lexington, KY 40511

Carrie Hensley
610 E. Cumberland St.
Albany, KY 42602

Roy Stewart, et al.
1511 Old Monticello Rd.
Albany, KY 42602

Hugh Kennedy
1301 Old Monticello Rd.
Albany, KY 42602

Judy Vitatoe
1474 Old Monticello Rd.
Albany, KY 42602

Ineeda M. and Johnny C. Guffey
1475 Old Monticello Rd.
Albany, KY 42602

Jennifer and Chad Arms
1370 Old Monticello Rd.
Albany, KY 42602

Donnie C. and Peggy Stinson
128 Losey Road
Albany, KY 42602

Norman Dale Asberry
and Angelle Asberry
610 E. Cumberland St.
Albany, KY 42602

Darren L. Helms
Darren L. Helms, P.L.S. 3386

Jan. 16, 2019
Date

STATE OF KENTUCKY
DARREN L. HELMS
3386
LICENSED
PROFESSIONAL
LAND SURVEYOR

**Donnie C. and Peggy Stinson**
128 Losey Road
Albany, Kentucky 42602

## Public Notice

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**Public Service Commission of Kentucky**
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**Frankfort, Kentucky, 40602.**

**Please refer to Case Number 2019-00042 in your correspondence.**

Bluegrass Cellular welcomes the opportunity to serve and provide wireless service in your community! (For more information, please check us out online at www.myblueworks.com)

**Jennifer and Chad Arms**
1370 Old Monticello Road
Albany, Kentucky 42602

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**Tracking Number:** 70181830000220643832

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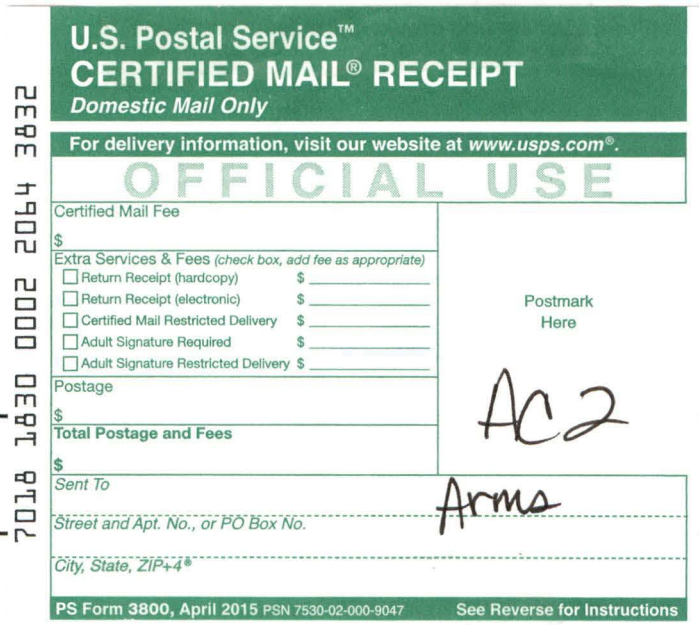
Your item was delivered at 9:16 am on February 11, 2019 in ALBANY, KY 42602.

**Delivered**

February 11, 2019 at 9:16 am
Delivered
ALBANY, KY 42602

**Get Updates** ⌄



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- ☐ Certified Mail Restricted Delivery $
- ☐ Adult Signature Required $
- ☐ Adult Signature Restricted Delivery $

Postage
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Total Postage and Fees
$

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AC2

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City, State, ZIP+4®

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

7018 1830 0002 2064 3832

Feedback

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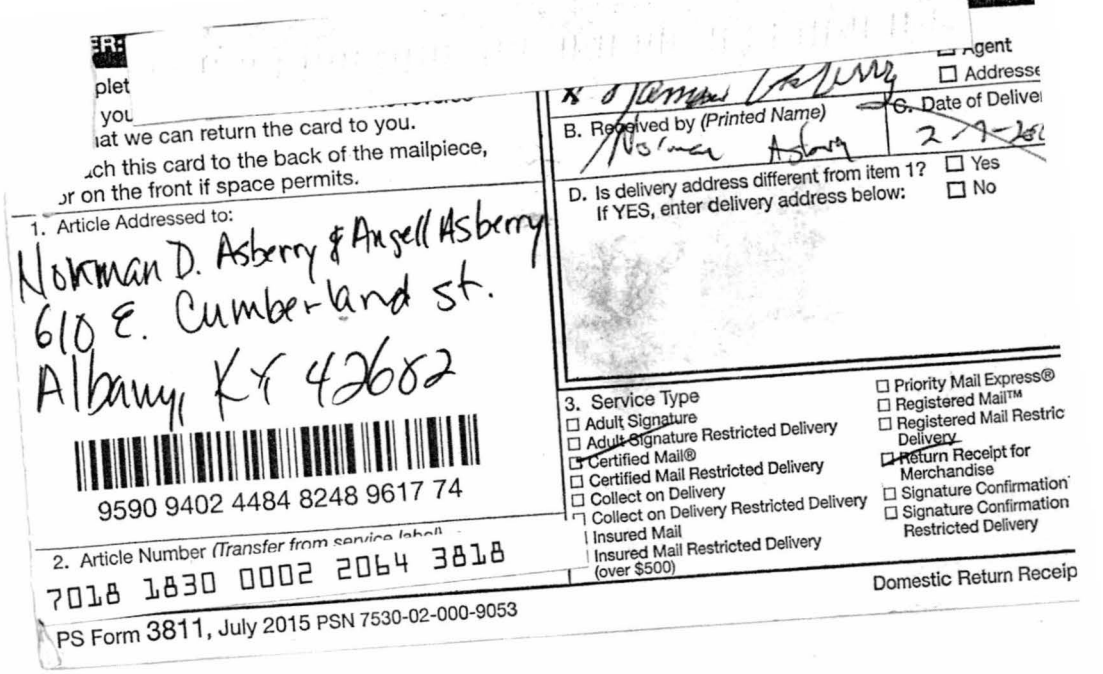
*NOTE: Black and white (grayscale) images show the outside, front of letter-sized envelopes and mailpieces that are processed through USPS automated equipment.



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you
at we can return the card to you.
ch this card to the back of the mailpiece,
or on the front if space permits.

1. Article Addressed to:

Norman D. Asberry & Angell Asberry
610 E. Cumberland St.
Albany, KY 42602

9590 9402 4484 8248 9617 74

2. Article Number (Transfer from service label)
7018 1830 0002 2064 3818

PS Form 3811, July 2015 PSN 7530-02-000-9053

Agent
Addressee

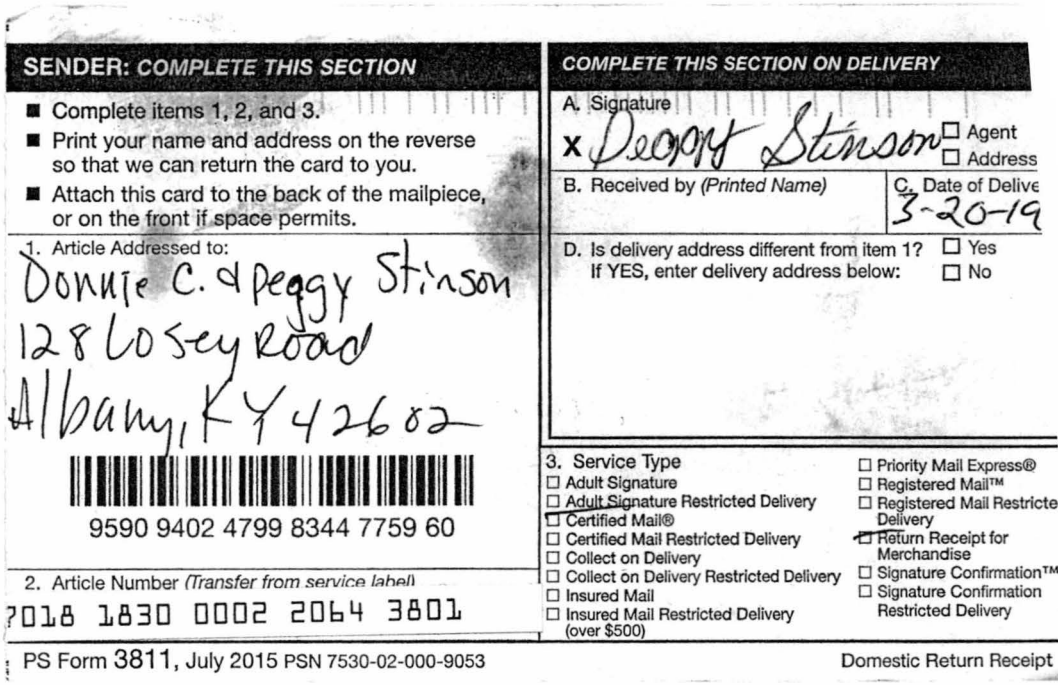
B. Received by (Printed Name) Norman Asberry

C. Date of Delivery 2-7-19

D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restric Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation
☐ Signature Confirmation Restricted Delivery

Domestic Return Receip



**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Donnie C. & Peggy Stinson
128 Losey Road
Albany, KY 42602

9590 9402 4799 8344 7759 60

2. Article Number (Transfer from service label)
7018 1830 0002 2064 3801

PS Form 3811, July 2015 PSN 7530-02-000-9053

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature
X Peggy Stinson ☐ Agent ☐ Address

B. Received by (Printed Name)

C. Date of Delive 3-20-19

D. Is delivery address different from item 1? ☐ Yes ☐ No
If YES, enter delivery address below:

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricte Delivery
☐ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Hugh Kennedy
1301 old Monticello Rd.
Albany, KY 42602

9590 9402 4484 8248 9618 28

2. Article Number *(Transfer from service label)*

7018 1830 0002 2064 3863

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X Hugh Kennedy ☐ Agent ☑ Addressee

B. Received by *(Printed Name)* C. Date of Delivery 12/7/19

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☑ Return Receipt for Merchandise
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

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- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Judy Vitatoe
1474 old Monticello Rd.
Albany, KY 42602

9590 9402 4484 8248 9618 11

2. Article Number *(Transfer from service label)*

7018 1830 0002 2064 3856

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X Judy Vitatoe ☐ Agent ☑ Addressee

B. Received by *(Printed Name)* C. Date of Delivery 12/7/19

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☑ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ineeda M. & Johnny C. Guffey
1475 old Monticello Rd.
Albany, KY 42602

9590 9402 4484 8248 9618 04

2. Article Number *(Transfer from service label)*

7018 1830 0002 2064 3849

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

X Ineeda M. Guffey ☐ Agent ☑ Addressee

B. Received by *(Printed Name)* C. Date of Delivery

Ineeda M. Guffey 12-07-20

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☑ Return Receipt for Merchandise
- ☐ Signature Confirmation
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Elmer P. & Kathleen Heist
C/O Robin Heist
2801 Majestic View Walk
Lexington, KY 40511

9590 9402 4484 8248 9618 59

2. Article Number *(Transfer from service label)*

7018 1830 0002 2064 3894

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Robyn Heist C. Date of Delivery 2/7/19

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
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- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
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- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receip

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- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Carrie Hensley
610 E. Cumberland St.
Albany KY 42602

9590 9402 4484 8248 9618 42

2. Article Number *(Transfer from service label)*

7018 1830 0002 2064 3887

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Carrie Adam C. Date of Delivery 2-8-20

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
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- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receip

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- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Roy Stewart
1511 Old Monticello Rd.
Albany, KY 42602

9590 9402 4484 8248 9618 35

2. Article Number *(Transfer from service label)*

7018 1830 0002 2064 3870

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery 2-8-19

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☑ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
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PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receipt

**Judy Vitatoe**
1474 Old Monticello Road
Albany, Kentucky 42602

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**Carrie Hensley**
610 East Cumberland Street
Albany, Kentucky 42602

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**Roy Stewart, et al.**
1511 Old Monticello Road
Albany, Kentucky 42602

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**Hugh Kennedy**
1301 Old Monticello Road
Albany, Kentucky 42602

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**Ineeda M. and Johnny C. Guffey**
1475 Old Monticello Road
Albany, Kentucky 42602

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**Norman Dale Asberry and Angell Asberry**
610 East Cumberland Street
Albany, Kentucky 42602

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**Leta Jean Poore**
1405 Old Monticello Road
Albany, Kentucky 42602

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**The Commission invites your comments regarding this proposed construction. Also, the Commission wants you to be aware of your right to intervene in this matter. Your comments and request for intervention should be addressed to:**

**Executive Director's Office**
**Public Service Commission of Kentucky**
**P.O. Box 615**
**Frankfort, Kentucky, 40602.**

**Please refer to Case Number 2019-00042 in your correspondence.**

Bluegrass Cellular welcomes the opportunity to serve and provide wireless service in your community! (For more information, please check us out online at www.myblueworks.com)

**INGLE, KERRY**

**From:** TrackingUpdates@fedex.com
**Sent:** Wednesday, April 03, 2019 2:21 PM
**To:** INGLE, KERRY
**Subject:** FedEx Shipment 774863948533 Delivered

# Your package has been delivered

## Tracking # 774863948533

Ship date:
Tue, 4/2/2019

**Kerry W. Ingle**
DINSMORE & SHOHL LLP
LOUISVILLE, KY 40202
US

Delivered

Delivery date:
Wed, 4/3/2019
1:19 pm

**Leta Jean Poore**
1405 Old Monticello Road
ALBANY, KY 42602
US

## Shipment Facts

Our records indicate that the following package has been delivered.

| | |
|---|---|
| **Tracking number:** | 774863948533 |
| **Status:** | Delivered: 04/03/2019 1:19 PM Signed for By: Signature not required |
| **Reference:** | 21965.5 |
| **Signed for by:** | Signature not required |
| **Delivery location:** | ALBANY, KY |
| **Delivered to:** | Residence |
| **Service type:** | FedEx Priority Overnight® |
| **Packaging type:** | FedEx® Envelope |
| **Number of pieces:** | 1 |
| **Weight:** | 0.50 lb. |
| **Special handling/Services:** | Residential Delivery |

| | |
|---|---|
| | Deliver Weekday |
| **Standard transit:** | 4/3/2019 by 4:30 pm |

Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 1:20 PM CDT on 04/03/2019.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above.

Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.



Thank you for your business.

774863948533

# Delivered
# Wednesday 4/03/2019 at 1:19 pm

**DELIVERED**

Signature not required

**GET STATUS UPDATES**

**OBTAIN PROOF OF DELIVERY**

| FROM | TO |
|---|---|
| LOUISVILLE, KY US | ALBANY, KY US |

## Shipment Facts

| | | |
|---|---|---|
| **TRACKING NUMBER**<br>774863948533 | **SERVICE**<br>FedEx Priority Overnight | **WEIGHT**<br>0.5 lbs / 0.23 kgs |
| **DELIVERED TO**<br>Residence | **TOTAL PIECES**<br>1 | **TOTAL SHIPMENT WEIGHT**<br>0.5 lbs / 0.23 kgs |
| **TERMS**<br>Shipper | **SHIPPER REFERENCE**<br>21965.5 | **PACKAGING**<br>FedEx Envelope |
| **SPECIAL HANDLING SECTION**<br>Deliver Weekday, Residential Delivery | **STANDARD TRANSIT**<br>4/03/2019 by 4:30 pm | **SHIP DATE**<br>Tue 4/02/2019 |
| **ACTUAL DELIVERY**<br>Wed 4/03/2019 1:19 pm | | |

## Travel History

| | | Local Scan Time |
|---|---|---|
| Wednesday , 4/03/2019 | | |
| 1:19 pm | ALBANY, KY | Delivered<br>Left at back door. Package delivered to recipient address - release authorized |
| 9:46 am | LONDON, KY | On FedEx vehicle for delivery |
| 9:17 am | LONDON, KY | At local FedEx facility |
| 5:49 am | LOUISVILLE, TN | At destination sort facility |

| | | |
|---|---|---|
| 3:58 am | MEMPHIS, TN | Departed FedEx location |
| Tuesday , 4/02/2019 | | |
| 11:27 pm | MEMPHIS, TN | Arrived at FedEx location |
| 9:56 pm | LOUISVILLE, KY | Left FedEx origin facility |
| 5:08 pm | LOUISVILLE, KY | Picked up |
| 2:05 pm | | Shipment information sent to FedEx |

Dinsmore

*Legal Counsel.*

DINSMORE & SHOHL LLP
101 South Fifth Street ^ Suite 2500 ^ Louisville, KY 40202
www.dinsmore.com

Kerry W. Ingle
502-540-2354 (Direct Dial)
kerry.ingle@dinsmore.com

February 5, 2019

U.S. Postal Service™
CERTIFIED MAIL® RECEIPT
*Domestic Mail Only*

For delivery information, visit our website at *www.usps.com®*.

OFFICIAL USE

| | |
|---|---|
| Certified Mail Fee $ | |
| Extra Services & Fees *(check box, add fee as appropriate)* | |
| ☐ Return Receipt (hardcopy) $ | Postmark Here |
| ☐ Return Receipt (electronic) $ | |
| ☐ Certified Mail Restricted Delivery $ | |
| ☐ Adult Signature Required $ | |
| ☐ Adult Signature Restricted Delivery $ | |
| Postage $ | |
| Total Postage and Fees $ | |
| Sent To Clinton County Judge Exec | |
| Street and Apt. No., or PO Box No. | |
| City, State, ZIP+4® | |

7018 2290 0000 9058 8153

PS Form 3800, April 2015 PSN 7530-02-000-9047 See Reverse for Instructions

***Via Certified Mail***
Honorable Ricky Craig
Clinton County Judge Executive
100 North Cross Street
Albany, Kentucky 42602

***Re: Application of Cumberland Cellular Partnership d/b/a Bluegrass Cellular for a Certificate of Public Convenience and Necessity to construct a new cellular facility to be located at 1385 Old Monticello Road, Albany, Clinton County, Kentucky, 42602, before the Public Service Commission of the Commonwealth of Kentucky, Case No. 2019-00042***

Judge Craig:

Cumberland Cellular Partnership d/b/a Bluegrass Cellular is applying to the Public Service Commission of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new cellular facility to provide cellular telephone service. This facility will include a 240 foot tower and an equipment shelter to be located at 1385 Old Monticello Road, Albany, Clinton County, Kentucky, 42602. A map showing the location of the proposed new facility is enclosed.

The Commission invites your comments regarding the proposed construction. You also have the right to intervene in this matter.

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to Case No. 2019-00042 in your correspondence.

Very Truly Yours,

DINSMORE & SHOHL LLP

Kerry W. Ingle
Paralegal

Enclosure

**SENDER: *COMPLETE THIS SECTION***

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Hon. Ricky Craig
Clinton Co. Judge Exec.
100 N. Cross Street
Albany KY 42602

9590 9402 4799 8344 7759 46

2. Article Number *(Transfer from service label)*

7018 2290 0000 9058 8153

***COMPLETE THIS SECTION ON DELIVERY***

A. Signature

X Kelli Abston ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Kelli Abston

C. Date of Delivery 1-7-19

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☐ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, July 2015 PSN 7530-02-000-9053 Domestic Return Receip


PUBLIC NOTICE
Cumberland Cellular Partnership
proposes to
construct a cellular
communications
TOWER
near this site. If you have any
questions please contact:
Cumberland Cellular
Partnership
P.O. Box 5012
2602 Ring Road
Elizabethtown, KY 42701
or
Executive Director,
The Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602
Please refer to P.S.C.
Case #2019-00042
in your correspondence.


PUBLIC NOTICE
TOWER


PUBLIC NOTICE
TOWER


PUBLIC NOTICE
TOWER


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TOWER
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or
Executive Director,
The Public Service Commission
211 Sower Boulevard
P. O. Box 615
Frankfort, KY 40602
Please refer to P.S.C.
Case #2019-00042
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**Clinton County News**

Published Since 1949 By
*Gibson Printing Co., Inc.*

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606-387-5144 / Fax: 606-387-7949

*gpcompany@kih.net / www.clintonnews.net*

The News . . . It's All About You!

# AFFIDAVIT OF PUBLICATION
# PROOF OF PUBLICATION

I, Erika Roe, Advertising Manager for the Clinton County News, a newspaper published in Albany, Clinton County, Kentucky, do hereby affirm that an Public Notice advertisement placed by Dinsmore & Shohl LLP, regarding the proposal to install a Telecommunications tower at 1385 Old Monticello Road, in Albany, Clinton County, Kentucky was published in the Clinton County News in the Thursday, February 7, 2019 edition, and the Thursday, February 14, 2019 edition.

Erika Roe
Advertising Manager
Clinton County News

I, Alan B. Gibson, a Notary Public, State at Large, Kentucky, do hereby affirm that the above named person did personally appear before me on this 14th day of February, 2019, affixing her signature to this document in my presence and stating that the above facts were true to the best of her knowledge.

Alan B. Gibson
Notary Public
State at Large, Kentucky

My Commission Expires 09/27/20
ID# 564971

## Legal Notice

Cumberland Cellular Partnership d/b/a Bluegrass Cellular is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service area #5 of the Commonwealth of Kentucky (Albany Capacity 2 Cell Site). The facility is a 240 tower and an equipment shelter to be located at 1385 Old Monticello Road, Albany, Clinton County, Kentucky, 42602. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2019-00042 in your correspondence. 18-2p

## January Fiduciaries

The following is a listing of appointment of fiduciaries for Clinton District Court for the month of January 2019.

* Decedent: Peggy Dyer, P.O. Box 551, Albany, Ky. 42602. Fiduciary: Ina Lee Cross, 109 Crow Creek Rd., Albany, Ky. 42602. Date of Appointment: January 15, 2019. Attorney: David Choate, 216 E. Cumberland St., Albany, Ky. 42602.

* Decedent: Phyllis Ervin, 199 Ky. Hwy. 2546, Albany, Ky. 42602. Fiduciary: Sharon Blaylock, 204 Oak Point Ln., Mt. Juliet, TN 37122. Date of Appointment: January 15, 2019. Attorney: David Choate, 216 E. Cumberland St., Albany, Ky. 42602.

(krs 395.190. The date by which creditors must file their claims, that is, within six months after the appointment of fiduciary.)

rom the date of the sale with interest thereon at the rate of 6% percent per annum; however, the purchaser may pay all or part of the purchase price prior to the maturity with all accrued interest due at the time of the said payment. If the sale be had on credit, the purchaser shall execute and deliver to the order of the Master Commissioner, his or her bond due and payable in 30 days, bearing interest at the legal rate of 6% percent per annum from date of sale until paid, with good and sufficient surety thereon and said sale shall likewise be secured by a lien upon the said property sold, which shall have the same force and effect of a judgment and said bond with acceptable surety shall be executed immediately after the sale; upon default of the terms of said bond the Master Commissioner shall immediately resell the property on the same terms and conditions set out herein.

The 2018 and subsequent property taxes shall paid by the Purchaser.

N. NORBERT H. SOHM
MASTER
COMMISSIONER
CLINTON
CIRCUIT COURT
19-2c

HON. NORBERT H. SOHM
MASTER COMMISSIONER
CLINTON CIRCUIT COURT
18-2C

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18-2p

# Bluegrass Cellular accepting scholarship applications

Applications are now being accepted for Bluegrass Cellular's 2019 Scholarship Program.

This annual program, now in its 8th year, will award 12 scholarships to local college-bound high school seniors in the surrounding area of Central Kentucky. Applications are due Friday, March 29.

This scholarship program was created to help local students pursue higher education and help offset the cost of tuition.

Scholarships will be awarded based on a student's academic achievements, school/community involvement, scholarship essay, letters of recommendation and financial need.

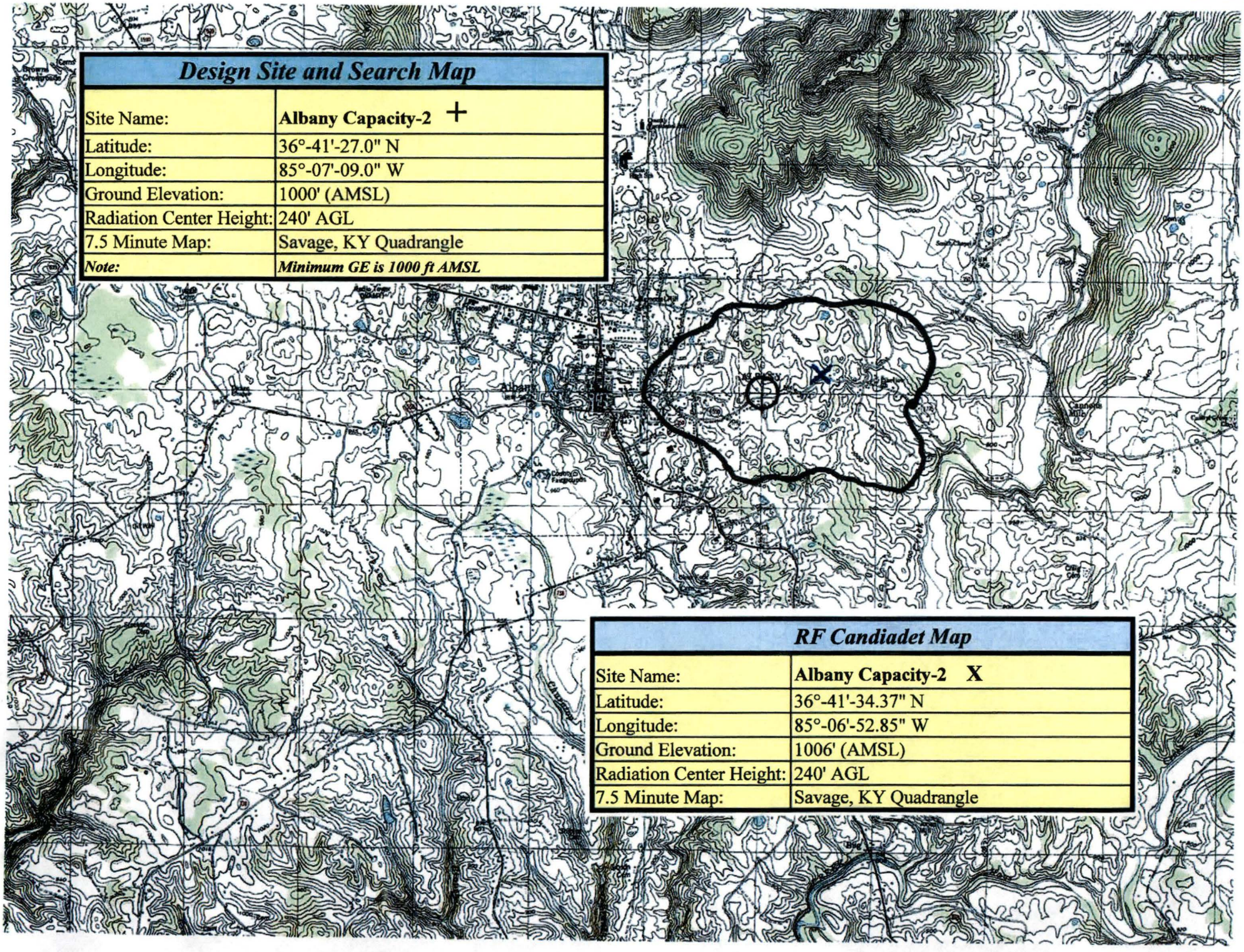
To be eligible, applicants must live and attend high school within Bluegrass Cellular's 34-county home-service area. Scholarship winners will be notified in May 2019.

The application and complete list of guidelines are available at bluegrasscellular.com/scholarships. Interested applicants can also pick up applications from their school guidance counselors or at any of Bluegrass Cellular's Customer Care Centers.

To find the nearest Bluegrass Cellular Customer Care Center, visit bluegrasscellular.com/locator.

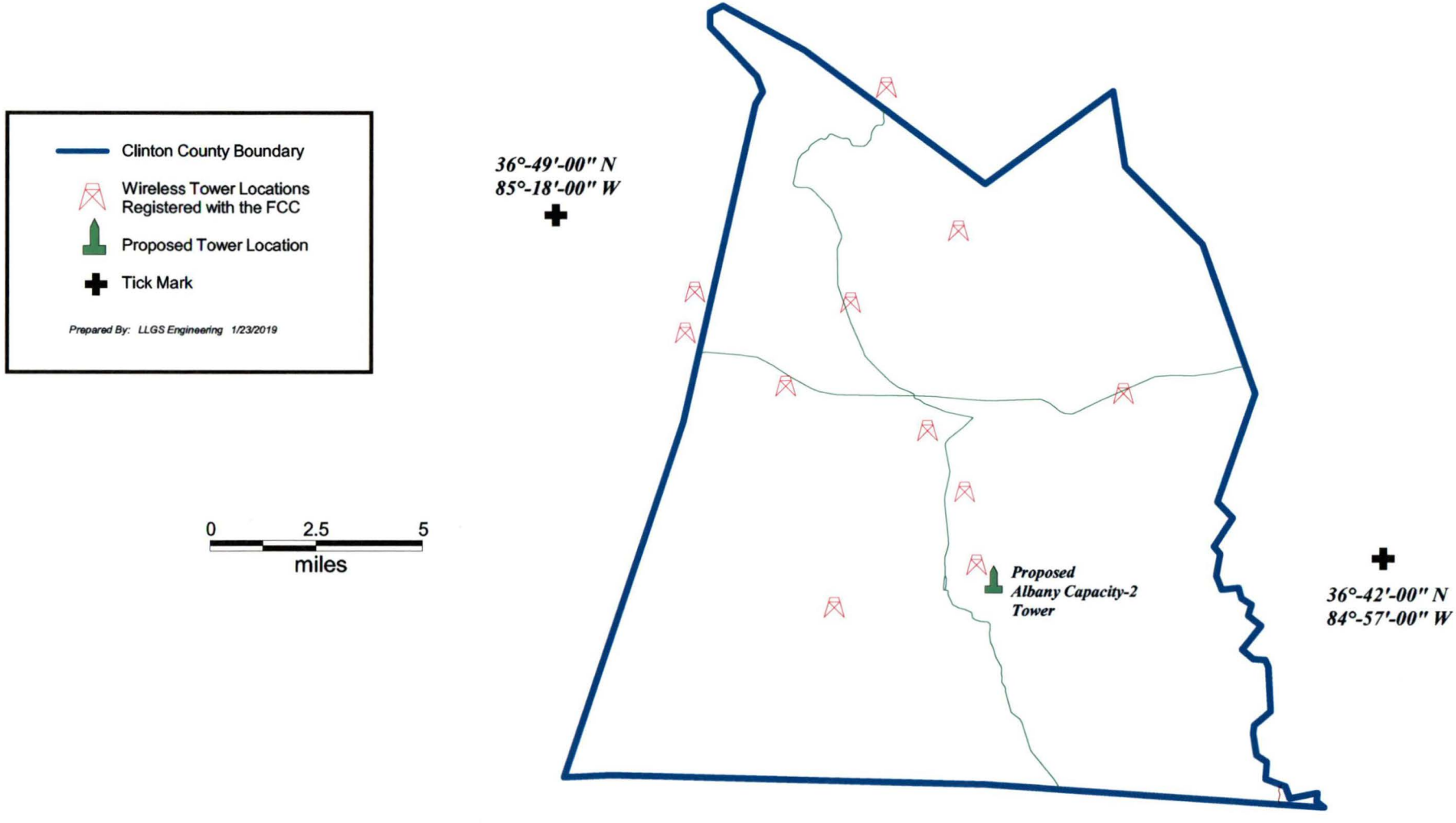
"The Bluegrass Cellular Scholarship Program represents our commitment to helping students in the communities we serve," said Barry Nothstine, Vice President of Sales and Marketing for Bluegrass Cellular. "We're excited to help local students take the next step toward furthering their educational goals."

For additional information about the scholarship program, contact Mackenzie Riordan, Bluegrass Cellular's PR & Event Specialist, at 270-765-6361 ext. 5238 or mriordan@blue



| Design Site and Search Map | |
|---|---|
| Site Name: | **Albany Capacity-2** + |
| Latitude: | 36°-41'-27.0" N |
| Longitude: | 85°-07'-09.0" W |
| Ground Elevation: | 1000' (AMSL) |
| Radiation Center Height: | 240' AGL |
| 7.5 Minute Map: | Savage, KY Quadrangle |
| ***Note:*** | ***Minimum GE is 1000 ft AMSL*** |

| RF Candiadet Map | |
|---|---|
| Site Name: | **Albany Capacity-2 X** |
| Latitude: | 36°-41'-34.37" N |
| Longitude: | 85°-06'-52.85" W |
| Ground Elevation: | 1006' (AMSL) |
| Radiation Center Height: | 240' AGL |
| 7.5 Minute Map: | Savage, KY Quadrangle |


Clinton County Boundary
Wireless Tower Locations Registered with the FCC
Proposed Tower Location
Tick Mark
Prepared By: LLGS Engineering 1/23/2019
0
2.5
5
miles
36°-49'-00" N
85°-18'-00" W
Proposed
Albany Capacity-2
Tower
36°-42'-00" N
84°-57'-00" W

## *Information on Towers Registered with the FCC in Clinton County and 1/2 Mile Area Outside of the County Boundary*

| FCC ASR No. | North Latitude | West Longitude | City, State | Tower Owner |
|---|---|---|---|---|
| 1044802 | 36-47-26 | 85-14-28 | Burkesville, KY | KY EMERGENCY WARNING SYSTEM KEWS |
| 1063507 | 36-48-41 | 85-7-47 | Albany, KY | Global Tower, LLC |
| 1239784 | 36-43-21.4 | 85-7-37.2 | Albany, KY | Cumberland Cellular Partnership |
| 1258265 | 36-44-36.2 | 85-8-34.1 | Albany, KY | Shared Sites Acquisition LLC |
| 1258266 | 36-45-21.5 | 85-3-35.7 | Albany, KY | Shared Sites Acquisition LLC |
| 1258453 | 36-45-30.5 | 85-12-9.6 | Albany, KY | Cumberland Cellular Partnership |
| 1258928 | 36-46-35.6 | 85-14-42.7 | Burkesville, KY | Shared Sites Acquisition LLC |
| 1261117 | 36-51-35.7 | 85-9-37.1 | Jamestown, KY | SBA Towers III LLC |
| 1265526 | 36-47-12. | 85-10-31.1 | Albany, KY | South Kentucky Rural Electric Cooperative Corporation |
| 1273817 | 36-41-51.7 | 85-7-19.1 | Albany, KY | American Towers, LLC. |
| 1291700 | 36-40-59.7 | 85-10-55.2 | Albany, KY | Cumberland Cellular Partnership |