

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

JAN 10 2014

PUBLIC SERVICE  
COMMISSION

In the Matter of:

THE APPLICATION OF )  
NEW CINGULAR WIRELESS PCS, LLC )  
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC )  
CONVENIENCE AND NECESSITY TO CONSTRUCT )  
A WIRELESS COMMUNICATIONS FACILITY )  
IN THE COMMONWEALTH OF KENTUCKY )  
IN THE COUNTY OF GRAYSON )

CASE NO.: 2013-00426

SITE NAME: LEITCHFIELD SOUTH

\* \* \* \* \*

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

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

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

1. The complete name and address of the Applicant: New Cingular Wireless

PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility, having a local address of 601 West Chestnut Street, Louisville, Kentucky 40203.

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

3. The Certificate of Authority filed with the Kentucky Secretary of State for the Applicant entity was attached to a prior application and is part of the case record for PSC case number 2011-00473 and is hereby incorporated by reference.

4. The Applicant operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the Applicant's FCC license to provide wireless services is attached to this Application or described as part of **Exhibit A**, and the facility will be constructed and operated in accordance with applicable FCC regulations.

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve the Applicant's services to an area currently not served or not adequately served by the Applicant by increasing coverage or capacity and thereby enhancing the public's access to innovative and competitive wireless communications services. The WCF will provide a necessary link in the Applicant's communications network that is designed to meet the increasing demands for wireless services in Kentucky's wireless communications service area. The WCF is an

integral link in the Applicant's network design that must be in place to provide adequate coverage to the service area.

6. To address the above-described service needs, Applicant proposes to construct a WCF at 397 Victory Heights Road, Leitchfield, Kentucky 42754 (37°27'38.42" North latitude, 86°17'39.27" West longitude), on a parcel of land located entirely within the county referenced in the caption of this application. The property on which the WCF will be located is owned by The Herbert R. and Patsy F. Swift Trust pursuant to a Deed recorded at Deed Book 380, Page 555 in the office of the Grayson County Clerk. The proposed WCF will consist of a 190-foot tall tower, with an approximately 9-foot tall lightning arrester attached at the top, for a total height of 199-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of the Applicant's radio electronics equipment and appurtenant equipment. The Applicant's equipment cabinet or shelter will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound will be fenced and all access gate(s) will be secured. A description of the manner in which the proposed WCF will be constructed is attached as **Exhibit B** and **Exhibit C**.

7. A list of utilities, corporations, or persons with whom the proposed WCF is likely to compete is attached as **Exhibit D**, along with a map of suitable scale showing the location of the proposed new construction as well as the location of any like facilities located anywhere within the map area, along with a map key showing the owner of such other facilities.

8. The site development plan and a vertical profile sketch of the WCF signed

and sealed by a professional engineer registered in Kentucky depicting the tower height, as well as a proposed configuration for the antennas of the Applicant has also been included as part of **Exhibit B**.

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

10. Applicant has considered the likely effects of the installation of the proposed WCF on nearby land uses and values and has concluded that there is no more suitable location reasonably available from which adequate services can be provided, and that there are no reasonably available opportunities to co-locate Applicant's antennas on an existing structure. When suitable towers or structures exist, Applicant attempts to co-locate on existing structures such as communications towers or other structures capable of supporting Applicant's facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site. A report detailing Applicant's site selection process for the subject site (including documentation as to why co-location is not possible for this site) is attached as **Exhibit E**.

11. A copy of an analysis stating that no notice to the Federal Aviation Administration ("FAA") is required to build a tower on this site is attached as **Exhibit F**.

12. A copy of a statement from the Kentucky Airport Zoning Commission ("KAZC") stating that no notice is required to construct a tower on this site is attached as **Exhibit G**.

13. A geotechnical engineering firm has performed soil boring(s) and subsequent

geotechnical engineering studies at the WCF site. A copy of the geotechnical engineering report, signed and sealed by a professional engineer registered in the Commonwealth of Kentucky, is attached as **Exhibit H**. The name and address of the geotechnical engineering firm and the professional engineer registered in the Commonwealth of Kentucky who supervised the examination of this WCF site are included as part of this exhibit.

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

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

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

17. The Construction Manager for the proposed facility is Ron Rohr, and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained **Exhibits B & C**.

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

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

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

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

22. Notice signs meeting the requirements prescribed by 807 KAR 5:063, Section 1(2) that measure at least 2 feet in height and 4 feet in width and that contain all required language in letters of required height, have been posted, one in a visible location on the

proposed site and one on the nearest public road. Such signs shall remain posted for at least two weeks after filing of the Application, and a copy of the posted text is attached as **Exhibit N**. Notice of the location of the proposed facility has also been published in a newspaper of general circulation in the county in which the WCF is proposed to be located.

23. The general area where the proposed facility is to be located is a wooded hilltop with sparse rural residences.

24. The process that was used by the Applicant's radio frequency engineers in selecting the site for the proposed WCF was consistent with the general process used for selecting all other existing and proposed WCF facilities within the proposed network design area. Applicant's radio frequency engineers have conducted studies and tests in order to develop a highly efficient network that is designed to handle voice and data traffic in the service area. The engineers determined an optimum area for the placement of the proposed facility in terms of elevation and location to provide the best quality service to customers in the service area. A radio frequency design search area prepared in reference to these radio frequency studies was considered by the Applicant when searching for sites for its antennas that would provide the coverage deemed necessary by the Applicant. A map of the area in which the tower is proposed to be located which is drawn to scale and clearly depicts the necessary search area within which the site should be located pursuant to radio frequency requirements is attached as **Exhibit O**.

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

26. All responses and requests associated with this Application may be directed

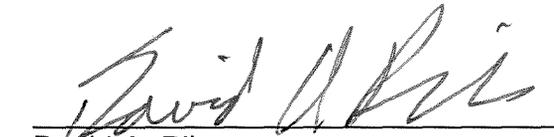
to:

David A. Pike  
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Shepherdsville, KY 40165-0369  
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Telefax: (803) 254-1731  
Email: pt1285@att.com

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

Respectfully submitted,

A handwritten signature in black ink, appearing to read "David A. Pike", written over a horizontal line.

David A. Pike  
Pike Legal Group, PLLC  
1578 Highway 44 East, Suite 6  
P. O. Box 369  
Shepherdsville, KY 40165-0369  
Telephone: (502) 955-4400  
Telefax: (502) 543-4410  
Email: dpike@pikelegal.com  
Attorney for New Cingular Wireless PCS, LLC  
d/b/a AT&T Mobility

## LIST OF EXHIBITS

- A - FCC License Documentation
- B - Site Development Plan:
  - 500' Vicinity Map
  - Legal Descriptions
  - Flood Plain Certification
  - Site Plan
  - Vertical Tower Profile
- C - Tower and Foundation Design
- D - Competing Utilities, Corporations, or Persons List and Map of Like Facilities in Vicinity
- E - Co-location Report
- F - FAA
- G - Kentucky Airport Zoning Commission
- H - Geotechnical Report
- I - Directions to WCF Site
- J - Copy of Real Estate Agreement
- K - Notification Listing
- L - Copy of Property Owner Notification
- M - Copy of County Judge/Executive Notice
- N - Copy of Posted Notices
- O - Copy of Radio Frequency Design Search Area



**EXHIBIT A**  
**FCC LICENSE DOCUMENTATION**

ULS License

**Cellular License - KNKN748 - NEW CINGULAR WIRELESS PCS, LLC****PA** This license has pending applications: 0006003502

Call Sign	KNKN748	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular

**Market**

Market	CMA445 - Kentucky 3 - Meade	Channel Block	A
Submarket	0	Phase	2

**Dates**

Grant	08/30/2011	Expiration	10/01/2021
Effective	11/24/2012	Cancellation	

**Five Year Buildout Date**

01/06/1997

**Control Points**

**1** 1650 Lyndon Farms Court, LOUISVILLE, KY  
P: (502)329-4700

**Licensee**

FRN	0003291192	Type	Limited Liability Company
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**Licensee**

NEW CINGULAR WIRELESS PCS, LLC 2200 N. Greenville Ave, 1W Richardson, TX 75082 ATTN Reginald Youngblood	P:(972)234-7003 F:(972)301-6893 E:FCCMW@att.com
--	---

**Contact**

AT&T MOBILITY LLC MICHAEL P GOGGIN 1120 20TH STREET, NW, SUITE 1000 WASHINGTON, DC 20036	P:(202)457-2055 F:(202)457-3073 E:MG7268@ATT.COM
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**Ownership and Qualifications**

Radio Service Type	Mobile
Regulatory Status	Common Carrier Interconnected Yes

**Alien Ownership**

The Applicant answered "No" to each of the Alien Ownership questions.

**Basic Qualifications**

The Applicant answered "No" to each of the Basic Qualification questions.

**Demographics**

Race		Gender	
Ethnicity			

ULS License

# PCS Broadband License - KNLG923 - NEW CINGULAR WIRELESS PCS, LLC

Call Sign	KNLG923	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular

### Market

Market	BTA263 - Louisville, KY	Channel Block	F
Submarket	0	Associated Frequencies (MHz)	001890.00000000-001895.00000000-001970.00000000-001975.00000000

### Dates

Grant	09/28/2007	Expiration	08/21/2017
Effective	11/24/2012	Cancellation	

### Buildout Deadlines

1st	08/21/2002	2nd	
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### Notification Dates

1st	10/05/2001	2nd	
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### Licensee

FRN	0003291192	Type	Limited Liability Company
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### Licensee

NEW CINGULAR WIRELESS PCS, LLC 2200 N. Greenville Ave, 1W Richardson, TX 75082 ATTN Reginald Youngblood	P:(972)234-7003 F:(972)301-6893 E:FCCMW@att.com
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### Contact

AT&T MOBILITY LLC Michael P Goggin 1120 20th Street, NW - Suite 1000 Washington, DC 20036 ATTN Michael P. Goggin	P:(202)457-2055 F:(202)457-3073 E:michael.p.goggin@att.com
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### Ownership and Qualifications

Radio Service Type	Mobile
Regulatory Status	Common Carrier    Interconnected    Yes

### Alien Ownership

The Applicant answered "No" to each of the Alien Ownership questions.

### Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

### Tribal Land Bidding Credits

This license did not have tribal land bidding credits.

ULS License

# PCS Broadband License - WPOI255 - NEW CINGULAR WIRELESS PCS, LLC

Call Sign	WPOI255	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular

### Market

Market	MTA026 - Louisville-Lexington-Evansvill	Channel Block	A
Submarket	19	Associated Frequencies (MHz)	001850.00000000-001865.00000000-001930.00000000-001945.00000000

### Dates

Grant	07/07/2005	Expiration	06/23/2015
Effective	11/24/2012	Cancellation	

### Buildout Deadlines

1st	06/23/2000	2nd	06/23/2005
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### Notification Dates

1st	07/07/2000	2nd	02/17/2005
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### Licensee

FRN	0003291192	Type	Limited Liability Company
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### Licensee

NEW CINGULAR WIRELESS PCS, LLC 2200 N. Greenville Ave, 1W Richardson, TX 75082 ATTN Reginald Youngblood	P:(972)234-7003 F:(972)301-6893 E:FCCMW@att.com
--	---

### Contact

AT&T MOBILITY LLC Michael P Goggin 1120 20th Street, NW - Suite 1000 Washington, DC 20036 ATTN Michael P. Goggin	P:(202)457-2055 F:(202)457-3073 E:michael.p.goggin@att.com
--	--

### Ownership and Qualifications

Radio Service Type Mobile  
Regulatory Status Common Carrier Interconnected Yes

### Alien Ownership

The Applicant answered "No" to each of the Alien Ownership questions.

### Basic Qualifications

The Applicant answered "No" to each of the Basic Qualification questions.

### Tribal Land Bidding Credits

This license did not have tribal land bidding credits.



**EXHIBIT B**

**SITE DEVELOPMENT PLAN:**

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



**LEGAL DESCRIPTIONS**

THE FOLLOWING IS A DESCRIPTION OF AN AREA TO BE LEASED FROM THE PROPERTY OF HERBERT R. & PATSY F. SWIFT TRUST, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**PROPOSED LEASE AREA**

BEGINNING AT A FOUND 1/2" REBAR CAPPED "PE YOUNG SR KYLS 1422" IN THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO HERBERT R. & PATSY F. SWIFT TRUST AS RECORDED IN DEED BOOK 328, PAGE 227, PARCEL ONE TRACT I IN THE OFFICE OF THE CLERK OF GRAYSON COUNTY, KENTUCKY; THENCE WITH THE SOUTH PROPERTY LINE OF SAID SWIFT PROPERTY, S 81°43'40" E - 257.03' TO A FOUND 1/2" REBAR CAPPED "PE YOUNG SR KYLS 1422" IN THE SOUTHWEST CORNER OF SAID SWIFT PROPERTY; THENCE WITH THE EAST PROPERTY LINE OF SAID SWIFT PROPERTY, N 01°14'20" E - 562.00' TO A POINT IN THE SOUTH RIGHT-OF-WAY LINE OF VICTORY HEIGHTS ROAD; THENCE WITH SAID RIGHT-OF-WAY, N 84°24'32" W - 10.03' TO A SET 1/2" REBAR; THENCE LEAVING SAID RIGHT-OF-WAY LINE AND TRAVERSING AFORESAID SWIFT PROPERTY, S 01°14'20" W - 506.21' TO A SET 1/2" REBAR; THENCE WITH THE ARC OF A CURVE TO THE RIGHT WITH A RADIUS OF 40.00' AND A CHORD OF S 49°45'20" W - 59.93' TO A SET 1/2" REBAR; THENCE N 81°43'40" W - 249.70' TO A SET 1/2" REBAR; THENCE WITH THE ARC OF A CURVE TO THE LEFT WITH A RADIUS OF 40.00' AND A CHORD OF S 58°14'08" W - 51.46' TO A SET 1/2" REBAR; THENCE S 18°11'57" W - 96.87' TO A SET 1/2" REBAR; THENCE WITH THE ARC OF A CURVE TO THE RIGHT WITH A RADIUS OF 50.00' AND A CHORD OF S 58°12'51" W - 64.30' TO A SET 1/2" REBAR; THENCE N 81°46'14" W - 47.77' TO A SET 1/2" REBAR; THENCE S 08°13'46" W - 50.00' TO A SET 1/2" REBAR; THENCE N 81°46'14" W - 10.00' TO A SET 1/2" REBAR AND THE TRUE POINT OF BEGINNING OF THE PROPOSED LEASE AREA; THENCE N 81°46'14" W - 100.00' TO A SET 1/2" REBAR; THENCE N 08°13'46" E - 100.00' TO A SET 1/2" REBAR, BEING S 82°04'35" E - 407.23' FROM A FOUND 1/2" REBAR CAPPED "K. CLEMONS PLS 2811"; THENCE S 81°46'14" E - 100.00' TO A SET 1/2" REBAR; THENCE S 08°13'46" W - 100.00' TO THE TRUE POINT OF BEGINNING CONTAINING 10,000 SQ. FT. AS PER SURVEY BY MARK PATTERSON, LPLS #3136 DATED JULY 2, 2013.

**CENTERLINE PROPOSED 20' ACCESS & UTILITY EASEMENT**

BEGINNING AT A FOUND 1/2" REBAR CAPPED "PE YOUNG SR KYLS 1422" IN THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO HERBERT R. & PATSY F. SWIFT TRUST AS RECORDED IN DEED BOOK 328, PAGE 227, PARCEL ONE TRACT I IN THE OFFICE OF THE CLERK OF GRAYSON COUNTY, KENTUCKY; THENCE WITH THE SOUTH PROPERTY LINE OF SAID SWIFT PROPERTY, S 81°43'40" E - 257.03' TO A FOUND 1/2" REBAR CAPPED "PE YOUNG SR KYLS 1422" IN THE SOUTHWEST CORNER OF SAID SWIFT PROPERTY; THENCE WITH THE EAST PROPERTY LINE OF SAID SWIFT PROPERTY, N 01°14'20" E - 562.00' TO A POINT IN THE SOUTH RIGHT-OF-WAY LINE OF VICTORY HEIGHTS ROAD; THENCE WITH SAID RIGHT-OF-WAY, N 84°24'32" W - 10.03' TO A SET 1/2" REBAR AND THE TRUE POINT OF BEGINNING OF THE CENTERLINE OF THE PROPOSED 20' ACCESS & UTILITY EASEMENT; THENCE LEAVING SAID RIGHT-OF-WAY LINE, FOLLOWING SAID CENTERLINE AND TRAVERSING AFORESAID SWIFT PROPERTY, S 01°14'20" W - 506.21' TO A SET 1/2" REBAR; THENCE WITH THE ARC OF A CURVE TO THE RIGHT WITH A RADIUS OF 40.00' AND A CHORD OF S 49°45'20" W - 59.93' TO A SET 1/2" REBAR; THENCE N 81°43'40" W - 249.70' TO A SET 1/2" REBAR; THENCE WITH THE ARC OF A CURVE TO THE LEFT WITH A RADIUS OF 40.00' AND A CHORD OF S 58°14'08" W - 51.46' TO A SET 1/2" REBAR; THENCE S 18°11'57" W - 96.87' TO A SET 1/2" REBAR; THENCE WITH THE ARC OF A CURVE TO THE RIGHT WITH A RADIUS OF 50.00' AND A CHORD OF S 58°12'51" W - 64.30' TO A SET 1/2" REBAR; THENCE N 81°46'14" W - 47.77' TO A SET 1/2" REBAR; THENCE S 08°13'46" W - 50.00' TO A SET 1/2" REBAR AND THE END OF SAID EASEMENT AS PER SURVEY BY MARK PATTERSON, LPLS #3136 DATED JULY 2, 2013.

**GENERAL NOTES**

BASIS OF BEARING IS GPS OBSERVATIONS COMPLETED ON JUNE 14, 2013.

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

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARENT TRACT.

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

THIS DRAWING IS NOT INTENDED FOR LAND TRANSFER.

**TITLE OF COMMITMENT**

THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC. AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESCRIPTIVE EASEMENTS, OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE. INFORMATION REGARDING THESE MATTERS WERE GAINED FROM STEWART TITLE GUARANTY COMPANY COMMITMENT FILE NO. 2013163, DATED JUNE 5, 2013. THE FOLLOWING COMMENTS ARE IN REGARD TO SAID COMMITMENT AND THE NUMBERS IN THE COMMENTS CORRESPOND TO THE NUMBERING SYSTEM IN SAID POLICY.

**SCHEDULE B SECTION II (EXCEPTIONS)**

- ITEM 1: RIGHTS OR CLAIMS OF PARTIES IN POSSESSION NOT SHOWN BY THE PUBLIC RECORDS. (POD GROUP, LLC. DID NOT EXAMINE OR ADDRESS THIS ITEM.)
- ITEM 2: EASEMENTS, OR CLAIMS OF EASEMENTS, NOT SHOWN BY THE PUBLIC RECORDS. (NO UNRECORDED EASEMENTS ARE SHOWN.)
- ITEM 3: ENCROACHMENTS, OVERLAPS, BOUNDARY LINE DISPUTES, OR OTHER MATTERS WHICH WOULD BE DISCLOSED BY AN ACCURATE SURVEY AND INSPECTION OF THE PREMISES. (NO ENCROACHMENTS, OVERLAPS, OR BOUNDARY DISPUTES WERE DISCOVERED FOR LEASE AREA AND ACCESS EASEMENT.)
- ITEM 4: ANY LIEN, OR RIGHT TO A LIEN, FOR SERVICES, LABOR, OR MATERIAL HERETOFORE OF HEREAFTER FURNISHED, IMPOSED BY LAW AND NOT SHOWN BY THE PUBLIC RECORDS. (POD GROUP, LLC. DID NOT EXAMINE OR ADDRESS THIS ITEM.)
- ITEM 5: SUBJECT TO 2013 TAXES WHICH ARE NOT YET DUE AND PAYABLE. (POD GROUP, LLC. DID NOT EXAMINE OR ADDRESS THIS ITEM.)
- ITEM 6: PERMANENT EASEMENTS AS SET FORTH IN DEED DATED MARCH, 1962, OF RECORD IN OED BOOK 74, PAGE 71, AND DEED BOOK 328, PAGE 227, BOTH IN THE OFFICE AFORESAID (PARCEL1). (EASEMENTS IN DEED BOOK 74, PAGE 71, AND DEED BOOK 328, PAGE 227, ARE NOT APPLICABLE TO LEASE AREA AND ACCESS EASEMENT.)
- ITEM 7: RESERVATION OF ROADWAY AS SET FORTH IN DEED DATED SEPTEMBER 23, 1958, OF RECORD IN OED BOOK 56, PAGE 73, AND DEED BOOK 74, PAGE 71, BOTH IN THE OFFICE AFORESAID (PARCEL1). (RESERVATION OF ROADWAY IN DEED BOOK 56, PAGE 73, AND DEED BOOK 74, PAGE 71, ARE NOT APPLICABLE TO LEASE AREA AND ACCESS EASEMENT.)
- ITEM 8: 50' ROADWAY AS SET FORTH IN DEED DATED MARCH 13, 1985, OF RECORD IN OED BOOK 191, PAGE 464, IN THE OFFICE AFORESAID (PARCEL 1). (50' ROADWAY IN DEED BOOK 191, PAGE 464, IS NOT APPLICABLE TO LEASE AREA AND ACCESS EASEMENT.)
- ITEM 9: RIGHT-OF-WAY EASEMENTS TO WARREN RURAL ELECTRIC COOPERATIVE CORPORATION, OF RECORD IN DEED BOOK 37, PAGE 541, AND DEED BOOK 108, PAGE 31, BOTH IN THE OFFICE AFORESAID (PARCEL 1). (EASEMENTS IN DEED BOOK 37, PAGE 541, AND DEED BOOK 108, PAGE 31, ARE VAGUE AND AMBIGUOUS AND ARE UNABLE TO ACCURATELY LOCATE.)
- ITEM 10: DEED OF EASEMENT DATED FEBRUARY 23, 1981, OF RECORD IN DEED BOOK 179, PAGE 127, IN THE OFFICE AFORESAID (PARCEL 1). (EASEMENT IN DEED BOOK 179, PAGE 127, IS NOT APPLICABLE TO LEASE AREA OR ACCESS EASEMENT.)
- ITEM 11: RESTRICTIONS AS SET FORTH IN DEED DATED JUNE 30, 1998, OF RECORD IN DEED BOOK 202, PAGE 193, IN THE OFFICE AFORESAID (PARCELS 1 AND 2). (RESTRICTION IN DEED BOOK 202, PAGE 193, IS VAGUE AND AMBIGUOUS AND IS UNABLE TO ACCURATELY LOCATE.)
- ITEM 12: AFFIDAVIT DATED APRIL 16, 1987, OF RECORD IN DEED BOOK 202, PAGE 193, IN THE OFFICE AFORESAID (PARCELS 1 AND 2). (AFFIDAVIT IN DEED BOOK 202, PAGE 193, IS VAGUE AND AMBIGUOUS AND IS UNABLE TO ACCURATELY LOCATE.)
- ITEM 13: RIGHT-OF-WAY EASEMENT DATED JUNE 25, 1970, TO WARREN RURAL ELECTRIC COOPERATIVE CORPORATION, OF RECORD IN DEED BOOK 107, PAGE 37, IN THE OFFICE AFORESAID (PARCEL 2). (EASEMENT IN DEED BOOK 107, PAGE 37, IS VAGUE AND AMBIGUOUS AND IS UNABLE TO ACCURATELY LOCATE.)
- ITEM 14: OIL AND GAS LEASES OF RECORD IN LEASE BOOK 31, PAGE 85, AND LEASE BOOK 36, PAGE 304, BOTH IN THE OFFICE AFORESAID (PARCEL 2). (LEASE IN LEASE BOOK 31, PAGE 85, AND LEASE BOOK 36, PAGE 304, ARE VAGUE AND AMBIGUOUS AND ARE UNABLE TO ACCURATELY LOCATE.)

**LEGEND**

- UTILITY POLE
- EOP EDGE OF PAVEMENT
- ROW RIGHTS OF WAY
- POB POINT OF BEGINNING
- EX. OVERHEAD ELECTRIC
- EX. OVERHEAD ELECTRIC & TELEPHONE
- X EX. FENCE LINE
- EX. DITCH
- SET 1/2" REBAR 18" LONG (UNLESS OTHERWISE NOTED)
- FOUND MONUMENT AS NOTED

**TEMPORARY BENCHMARK**

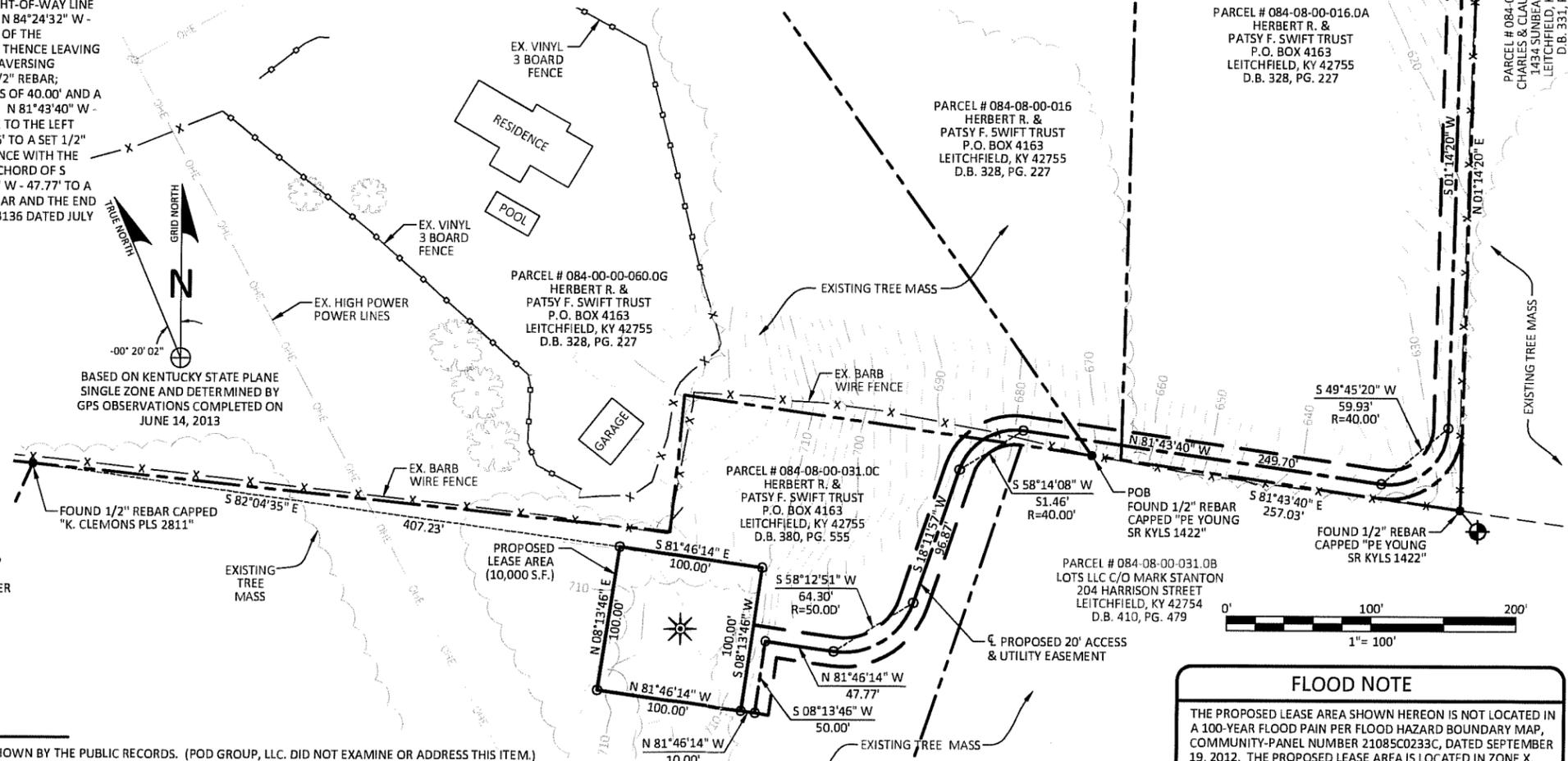
NORTHING: 3691860.98  
EASTING: 4763826.78  
ELEVATION: 626.20  
LOCATION: BEING A FOUND 1/2" REBAR CAPPED "PE YOUNG SR KYLS 1422" LOCATED IN THE SOUTHEAST CORNER OF PARCEL # 084-08-00-016.0A.

**FAA COORDINATE POINT**

NAD 83  
LATITUDE: 37° 27' 38.42"  
LONGITUDE: 86° 17' 39.27"  
NAVD 88  
ELEVATION: 712' AMSL  
NORTHING: 3691777.30  
EASTING: 4763289.80

**SITE INFORMATION**

TAX PARCEL NUMBER: 084-08-00-031.0C  
PROPERTY OWNER: HERBERT R. & PATSY F. SWIFT  
P.O. BOX 4163  
LEITCHFIELD, KY 42755  
SOURCE OF TITLE: D.B. 380, PG. 555



**FLOOD NOTE**

THE PROPOSED LEASE AREA SHOWN HEREON IS NOT LOCATED IN A 100-YEAR FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21085C0233C, DATED SEPTEMBER 19, 2012. THE PROPOSED LEASE AREA IS LOCATED IN ZONE X.

**LAND SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT THE SURVEY OF THE LEASE AREA DEPICTED BY THE PLAT WAS PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS. THE UNADJUSTED PRECISION RATIO OF THE TRAVERSE EXCEEDED 1:10,000 AND WAS NOT ADJUSTED FOR CLOSURE. THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR AN URBAN SURVEY FOR THE LEASE AREA AS ESTABLISHED BY THE STATE OF KENTUCKY, PER 201 KAR 18:150 AND IN EFFECT ON THE DATE OF THIS SURVEY.

*Mark Patterson* 10-1-13  
MARK PATTERSON, LPLS #3136 DATE

**POD**  
POWER OF DESIGN  
26 VILLAGE PLAZA  
SHELBYVILLE, KY 40065  
502-437-5252

**fmhc**

**at&t**

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

**SURVEY**

REV.	DATE	DESCRIPTION
1	09.30.13	ISSUED FOR FINAL

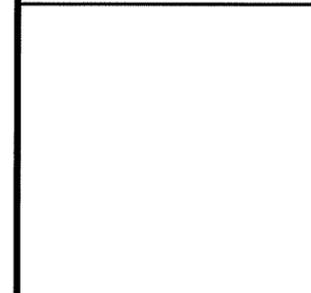
SITE INFORMATION:  
**LEITCHFIELD SO**  
397 VICTORY HEIGHTS ROAD  
LEITCHFIELD, KY 42754

SITE NUMBER:  
POD NUMBER: 13-0623

DRAWN BY: DSR  
CHECKED BY: MEP  
DATE: 07.02.13

SHEET TITLE:  
**SITE SURVEY**

SHEET NUMBER:  
**B-1**



**EXHIBIT**

REV.	DATE	DESCRIPTION
A	08.28.13	REV'D EASEMENT RADIUS
B	12.11.13	VERIFIED PVA
C	12.26.13	PARCEL #/ADDRESS
D	12.27.13	SURVEY TO EXHIBIT & NOTES/CERTIFICATE

SITE INFORMATION:  
**LEITCHFIELD SO**  
 397 VICTORY HEIGHTS RD  
 LEITCHFIELD, KY 42754  
 COUNTY: GRAYSON

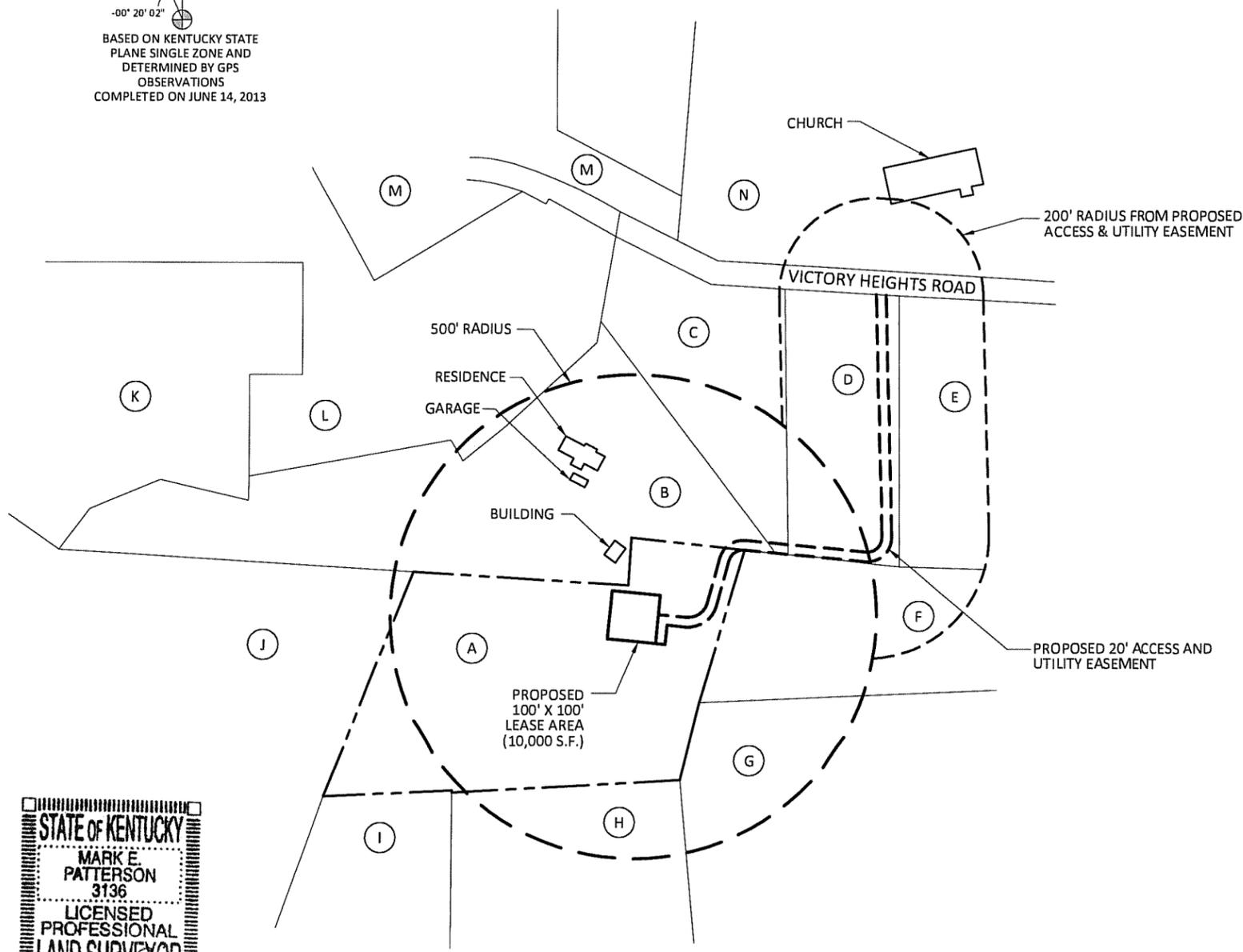
SITE NUMBER:  
 POD NUMBER: 13-0662  
 DRAWN BY: CSA  
 CHECKED BY: MEP  
 DATE: 06.26.13

SHEET TITLE:  
**500' RADIUS & ABUTTER'S MAP**

SHEET NUMBER:  
**B-2**

- (A) PARCEL # 084-08-00-031.0C  
HERBERT R AND PATSY F SWIFT TRUST  
PO BOX 4163  
LEITCHFIELD, KY 42755  
D.B. 380, PG. 555  
NO ZONING
- (B) PARCEL # 084-04-00-60.0G  
HERBERT R AND PATSY F SWIFT TRUST  
PO BOX 4163  
LEITCHFIELD, KY 42755  
D.B. 328, PG. 227  
NO ZONING
- (C) PARCEL # 084-08-00-016  
HERBERT R AND PATSY F SWIFT TRUST  
PO BOX 4163  
LEITCHFIELD, KY 42755  
D.B. 328, PG. 227  
NO ZONING
- (D) PARCEL # 084-08-00-016.0A  
HERBERT R AND PATSY F SWIFT TRUST  
PO BOX 4163  
LEITCHFIELD, KY 42755  
D.B. 328, PG. 227  
NO ZONING
- (E) PARCEL # 084-08-00-017  
CHARLES E AND CLAUDIA S DAY  
1434 SUNBEAM RD  
LEITCHFIELD, KY 42754  
D.B. 331, PG. 1  
NO ZONING
- (F) PARCEL # 084-08-00-031.0B  
LOTS LLC C/O MARK STANTON  
204 HARRISON STREET  
LEITCHFIELD, KY 42754  
D.B. 410, PG. 479  
NO ZONING
- (G) PARCEL # 084-08-00-031.0D  
MARK STANTON  
PO BOX 483  
LEITCHFIELD, KY 42755  
D.B. 421, PG. 282  
NO ZONING
- (H) PARCEL # 084-08-00-031.0A  
CELLULAR GEN PARTNERSHIP  
PO BOX 5012  
ELIZABETHTOWN, KY 42702  
D.B. 228, PG. 638  
NO ZONING
- (I) PARCEL # 084-08-00-031  
BRIDGETTE ALLEN  
1625 ANNETA RD  
LEITCHFIELD, KY 42754  
D.B. 388, PG. 22  
NO ZONING
- (J) PARCEL # 084-05-00-005  
MARK H AND KAY F STANTON  
STANTON REVOCABLE LIVING TRUST  
400 VICTORY HEIGHTS DR  
LEITCHFIELD, KY 42754  
D.B. 367, PG. 62  
NO ZONING
- (K) PARCEL # 084-05-00-004  
MARK H STANTON  
PO BOX 483  
LEITCHFIELD, KY 42755  
D.B. 214, PG. 446  
NO ZONING
- (L) PARCEL # 084-00-00-060.0E  
JESSE AND KENNETH YOUNG  
C/O MARK H STANTON  
PO BOX 483  
LEITCHFIELD, KY 42755  
D.B. 244, PG. 418  
NO ZONING
- (M) PARCEL # 084-08-00-001  
PHILLIP W SMITH  
127 EAST WHITE OAK ST  
LEITCHFIELD, KY 42754  
D.B. 205, PG. 272  
NO ZONING
- (N) PARCEL # 084-08-00-004  
VICTORY HEIGHTS TEMPLE INC  
72 VICTORY HEIGHTS RD  
LEITCHFIELD, KY 42754  
D.B. 207, PG. 257  
NO ZONING

TRUE NORTH  
 GRID NORTH  
 N  
 -00° 20' 02"  
 BASED ON KENTUCKY STATE  
 PLANE SINGLE ZONE AND  
 DETERMINED BY GPS  
 OBSERVATIONS  
 COMPLETED ON JUNE 14, 2013

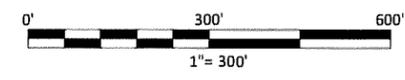


**GENERAL NOTE:**

- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE GRAYSON COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON 6.14.13 AND UPDATED ON 12.11.13. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. POD AND THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
- THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY
- NOT FOR RECORDING OR PROPERTY TRANSFER.

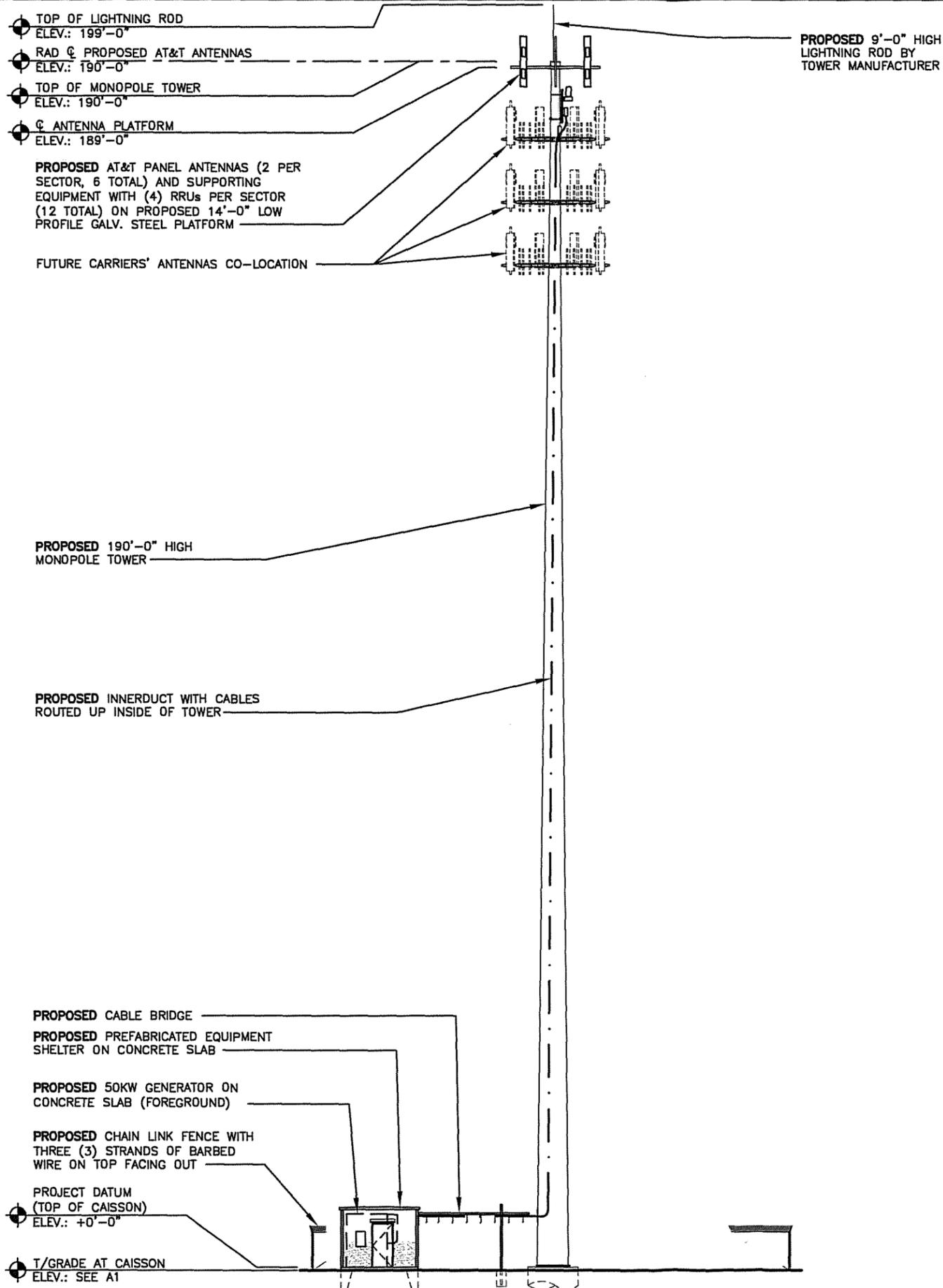


**CERTIFICATE**  
 I HEREBY CERTIFY THAT THIS EXHIBIT PERTAINING TO THE ADJOINING PROPERTY OWNERS PER PVA RECORDS WAS PREPARED UNDER MY DIRECT SUPERVISION. NO BOUNDARY SURVEYING OF ANY KIND HAS BEEN PERFORMED FOR THIS EXHIBIT.  
 Mark E. Patterson 12-27-13  
 MARK PATTERSON, LPLS #3136 DATE









EAST TOWER ELEVATION

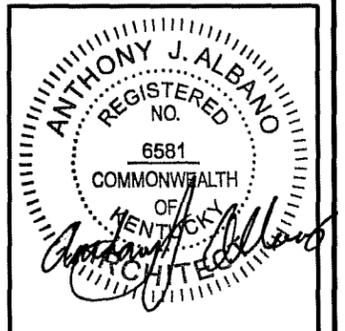
SCALE: 1" = 20'-0"



FMHC DESIGN, INC  
 ARCHITECTURE/TELECOMMUNICATIONS  
 1700 SHERWIN AVENUE  
 DES PLAINES, IL 60018  
 TEL: 773-380-3800  
 FAX: 773-693-0850

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ALL RIGHTS RESERVED. 2013



DRAWN BY : JG

APPROVED BY : AJA


09/04/13 ISSUED FOR ZONING

SITE# KYEVU3354  
 LEITCHFIELD  
 SOUTH  
 397 VICTORY HEIGHTS RD  
 LEITCHFIELD, KY 42754  
 GRAYSON COUNTY

SHEET TITLE  
 TOWER  
 ELEVATION

SHEET NUMBER  
**A3**

PROJECT NUMBER : B207



**EXHIBIT C**  
**TOWER AND FOUNDATION DESIGN**



11/7/13

RE:

Dear Commissioners:

The construction manager for the proposed new communications facility will be Ron Rohr. His contact information is 740-438-9710. Ron Rohr has been involved in the construction of communications facilities for over 17 years, and general construction for over 20 years.

Some of the notable and most recent projects are:

2010 - Present

American Tower Corporation – Construction Manager

- Successfully led the construction team on the 140 site, Southern Ohio Launch while maintaining a respectful and professional demeanor under difficult circumstances.
- Played a key part in the collaborating efforts to build the scope of work, pricing matrix, and close out documentation on several projects.
- Have cultivated a pool of responsible, dependable and quality driven GC's to work on ATC projects throughout the Midwest and Northeast Region.

1990 – 2009

Superior Concepts – Owner

- Contract Project and Construction Manager to multiple wireless carriers. Work included, but not limited to, permitting all the way through to final construction close outs. Also managed several DAS projects in shopping malls and residential areas.
- Equipment operator, cell site super intendant, regional foreman, etc...
- Carpentry, Construction and Consulting

Accreditations and Licenses

OSHA Electrical Safety  
Vallen Safety Knowledge Systems / Fall Protection  
Builders Exchange of Central Ohio / Estimating & Bid Preparation  
Amphenol Wireless Cable Connector Training  
Commscope Connector Training  
Andrew Connector Training  
Current OSHA Safety Training  
Current Haz Com Training  
FAA/FCC Training

Thank you,

A handwritten signature in black ink that reads 'Ron Rohr'.

Ron Rohr  
Construction Manager



1 Fairholm Avenue  
Peoria, IL 61603 USA  
Phone 309-566-3000  
FAX 309-566-3079

PURCHASER: AMERICAN TOWER CORPORATION  
NAME OF PROJECT: LEITCHFIELD SOUTH 281922, GRAYSON  
COUNTY, KENTUCKY  
190 FT TAPERED STEEL POLE  
FILE NUMBER: 208656  
DRAWING NUMBER: 208656-01-D1, 208656-01-F1, A810214R8 AND  
B010356R10

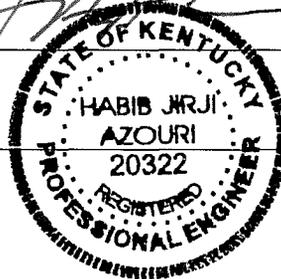
I CERTIFY THAT THE ATTACHED DRAWING AND CALCULATIONS WERE  
PREPARED UNDER MY SUPERVISION IN ACCORDANCE WITH THE  
LOADING CRITERIA SPECIFIED BY THE PURCHASER AND THAT I AM A  
REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE  
OF KENTUCKY.

CERTIFIED BY: \_\_\_\_\_

A handwritten signature in black ink, appearing to read "Habib Jrji Azouri", is written over a horizontal line.

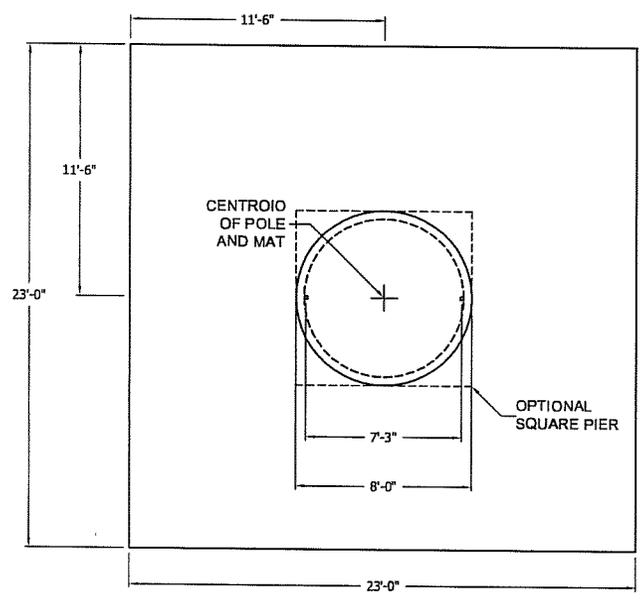
DATE: \_\_\_\_\_

12/5/13

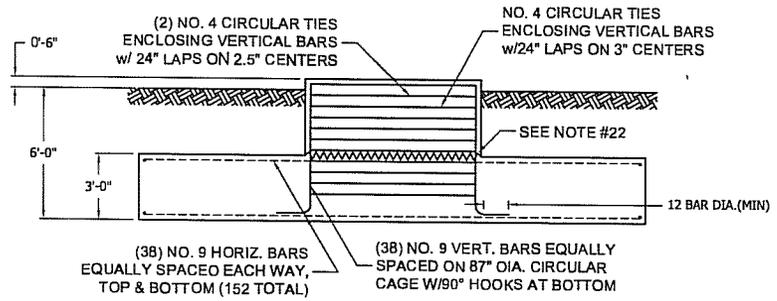


**GENERAL NOTES**

- FOUNDATION DESIGN HAS BEEN DEVELOPED IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE FOLLOWING DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED.
  - ULTIMATE SOIL BEARING PRESSURE AT 6 FT DEPTH = 30,000 PSF.  
(ALLOWABLE SOIL BEARING PRESSURE AT 6 FT DEPTH = 15000 PSF.)
  - GROUND WATER TABLE IS AT OR BELOW FOUNDATION DEPTH.
  - MAXIMUM FROST PENETRATION DEPTH LESS THAN FOUNDATION DEPTH.
- WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES, SAFETY REGULATIONS AND UNLESS OTHERWISE NOTED, THE LATEST REVISION OF ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE". PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION AND UTILITIES SHALL BE ESTABLISHED PRIOR TO FOUNDATION INSTALLATION.
- CONCRETE MATERIALS SHALL CONFORM TO THE APPROPRIATE STATE REQUIREMENTS FOR EXPOSED STRUCTURAL CONCRETE.
- PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI 318 CHAPTER 4 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE. AS A MINIMUM, CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI IN 28 DAYS.
- MAXIMUM SIZE OF AGGREGATE SHALL NOT EXCEED SIZE SUITABLE FOR INSTALLATION METHOD UTILIZED OR 1/3 CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. MAXIMUM SIZE MAY BE INCREASED TO 2/3 CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS OR VOIDS.
- REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO THE REQUIREMENTS OF ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED. SPLICES IN REINFORCEMENT SHALL NOT BE ALLOWED UNLESS OTHERWISE INDICATED.
- WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
- MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3 INCHES (76 MM) UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3 INCH (76 MM) MINIMUM COVER ON REINFORCEMENT.
- CONCRETE COVER FROM TOP OF FOUNDATION TO ENDS OF VERTICAL REINFORCEMENT SHALL NOT EXCEED 3 INCHES (76MM) NOR BE LESS THAN 2 INCHES (51MM).
- FOUNDATION DESIGN ASSUMES STRUCTURAL BACKFILL TO BE COMPACTED IN 8 INCH (200 MM) MAXIMUM LAYERS TO 95% OF MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT IN ACCORDANCE WITH ASTM D698. ADDITIONALLY, STRUCTURAL BACKFILL MUST HAVE A MINIMUM COMPACTED UNIT WEIGHT OF 110 POUNDS PER CUBIC FOOT (16 KN/M<sup>3</sup>).
- FOUNDATION DESIGN HAS BEEN BASED ON GEOTECHNICAL REPORT NO. 1305541600 DATED 09/06/13 BY FDH ENGINEERING, INC.
- FOUNDATION DEPTH INDICATED IS BASED ON THE GRADE LINE DESCRIBED IN THE REFERENCED GEOTECHNICAL REPORT. FOUNDATION MODIFICATION MAY BE REQUIRED, IN THE EVENT CUT OR FILL OPERATIONS HAVE TAKEN PLACE SUBSEQUENT TO THE GEOTECHNICAL INVESTIGATION.
- FOUNDATION DESIGN ASSUMES LEVEL GRADE AT STRUCTURE SITE.
- FOUNDATION DESIGN ASSUMES THE RECOMMENDATIONS IN THE REFERENCED GEOTECHNICAL REPORT CONCERNING VERIFICATION OF SUBSURFACE CONDITIONS ARE IMPLEMENTED PRIOR TO PLACEMENT OF CONCRETE.
- FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED INSTALLATION PRACTICES.
- FOUNDATION DESIGN ASSUMES INSTALLATION PROCEDURES WILL INCORPORATE THE PROCEDURES RECOMMENDED IN THE REFERENCED GEOTECHNICAL REPORT.
- FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON CONDITIONS EXISTING AT THE SITE.
- FOR FOUNDATION AND ANCHOR TOLERANCES SEE DRAWING AB10214.
- LOOSE MATERIAL SHALL BE REMOVED FROM BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT. SIDES OF EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
- CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL AND OTHER OCCURRENCES WHICH MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
- CONCRETE PREFERABLY SHALL BE PLACED AGAINST UNOBTURBED SOIL. WHEN FORMS ARE NECESSARY, THEY SHALL BE REMOVED PRIOR TO PLACING STRUCTURAL BACKFILL.
- CONSTRUCTION JOINTS, IF REQUIRED AT THE BASE OF THE PIERS, MUST BE INTENTIONALLY ROUGHENED TO A FULL AMPLITUDE OF 1/4 INCH (6 MM). FOUNDATION DESIGN ASSUMES NO OTHER CONSTRUCTION JOINTS.
- TOP OF FOUNDATION OUTSIDE LIMITS OF ANCHOR BOLTS SHALL BE SLOPED TO DRAIN WITH A FLOATED FINISH. AREA INSIDE LIMITS OF ANCHOR BOLTS SHALL BE LEVEL WITH A SCRATCHED FINISH.
- EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 3/4" X 3/4" (19MM X 19MM) MINIMUM.



**PLAN VIEW**



**ELEVATION VIEW**

**ADJUSTED FACTORED REACTIONS**

O.T.M. =	5,942.40 FT-K
DOWNLOAD =	102.00 KIPS
SHEAR =	41.00 KIPS

**CONCRETE VOLUME (cu.yds)**

	ROUND	SQUARE
PIER	6.5	8.3
PAO	58.8	58.8
TOTAL	65.3	67.1

FILE NO.	208656		
REVISIONS			
REV.	DESCRIPTION	DWN	CHK APP
 PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			
<b>AMERICAN TOWER</b> <b>MAT W/RAISED PIER FOUNDATION</b> LETTCFIELD SOUTH 281922, KY			
DWN:	CHKD:	HA	DATE: NOV/26/13
ENGR:	SHEET #:		
PRJ. ENGR:	PRJ. MANGR:		
DRAWING NO:	208656-01-F1		REV: 0

NOTE: SEE STRUCTURE ASSEMBLY DRAWING FOR FOUNDATION LAYOUT AND ANCHORAGE EMBEDMENT DRAWING NUMBER.

**FOUNDATION AND ANCHOR TOLERANCES**  
**ALL FOUNDATIONS**

1. CONCRETE DIMENSIONS - PLUS OR MINUS 1" (25mm).
2. DEPTH OF FOUNDATION - PLUS 3" (76mm) OR MINUS 0".
3. DRILLED FOUNDATIONS OUT OF PLUMB - 1.0 DEGREE.
4. REINFORCING STEEL PLACEMENT - PER A.C.I. 301.
5. PROJECTION OF EMBEDMENTS - PLUS OR MINUS 1/8" (3mm).
6. VERTICAL EMBEDMENTS OUT OF PLUMB - 0.5 DEGREE.

**ANCHOR BOLTS**

7. MAXIMUM DISTANCE FROM CENTERLINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" (51mm).
8. ANCHOR BOLT SPACING - 1/16" (2mm).
9. ANCHOR BOLT CIRCLE ORIENTATION - 0.25 DEGREE.
10. ANCHOR BOLT CIRCLE DIAMETER - PLUS OR MINUS 1/16" (2mm).

**SELF-SUPPORTING TOWERS**

11. FACE SPREAD DIMENSION CENTER TO CENTER OF ANCHOR BOLT CIRCLES - PLUS OR MINUS 1/16" (2mm) OR 1/16" (2mm) PER 20 FT. (6m) OF FACE SPREAD.
12. MAXIMUM DIFFERENCE BETWEEN ANY TWO FOUNDATION ELEVATIONS - 1/2" (13mm).

**GUYED TOWERS**

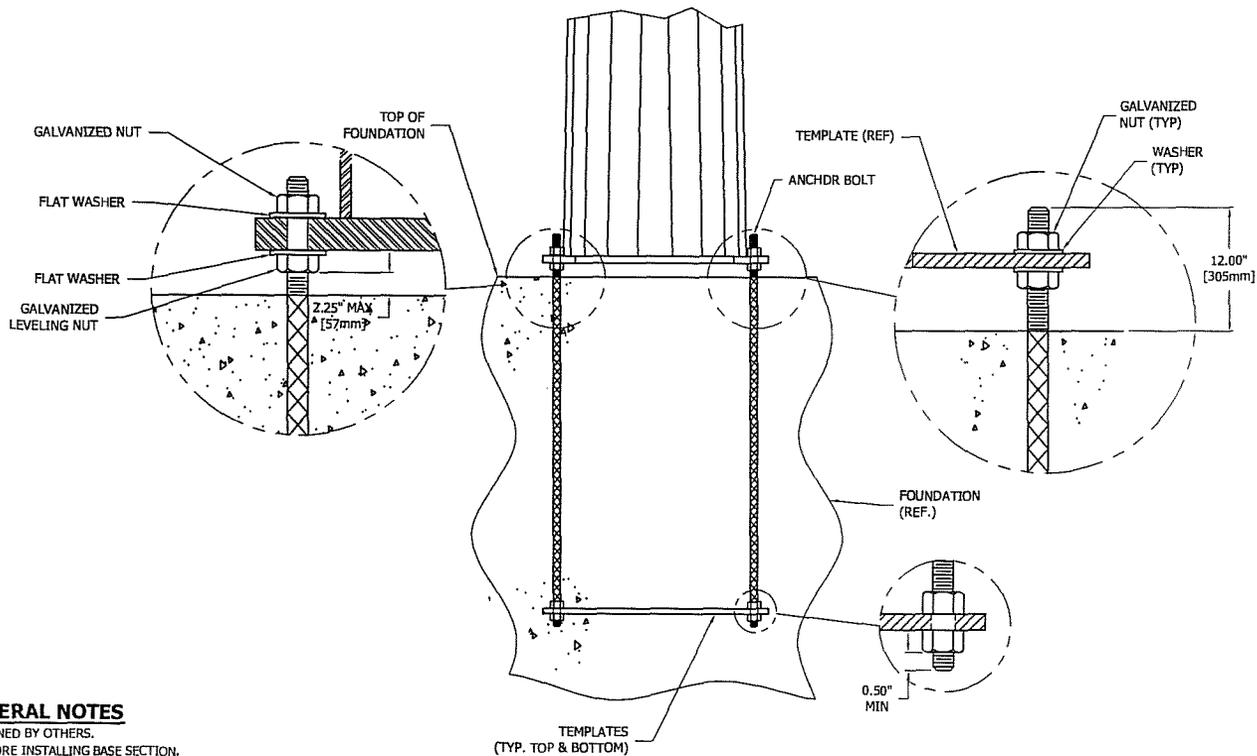
13. GUY RADIUS - PLUS OR MINUS 5% OF DISTANCE SPECIFIED.
14. ANCHOR ELEVATION - PLUS OR MINUS 5% OF GUY RADIUS.
15. ANCHOR ALIGNMENT (PERPENDICULAR TO GUY RADIUS) - 1.0 DEGREE.
16. ANCHOR ROD SLOPE - PLUS OR MINUS 1.0 DEGREE.
17. ANCHOR ROD ALIGNMENT WITH GUY RADIUS PLUS OR MINUS 1.0 DEGREE.
18. ANCHOR HEAD OUT OF PLUMB - 1.0 DEGREE.
19. GUY INITIAL TENSION - PLUS OR MINUS 10% OF TENSION SPECIFIED.

NOTE: TOLERANCES IN NOTES 13 AND 14 CAN NOT OCCUR SIMULTANEOUSLY

**WARNING!!!**

AFTER ANCHOR BOLTS ARE INSTALLED IN CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER. A NUT LOCKING DEVICE MUST BE INSTALLED ON ALL ANCHOR BOLTS.

FILE NO. <b>Standard-SSV</b>				
REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP
8	REDRAWN TO AUTOCAD	JDA	JDM	HA
DATE: <b>04/17/2005</b>				
DWG REFERENCE				
 6718 WEST PLANK ROAD PEORIA, IL 61604 TOLL FREE 800-727-ROHN				
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.				
<b>FOUNDATION &amp; ANCHOR TOLERANCE</b>				
DWN:	CSR	CHK'D:	KTL	DATE:
ENGR:	XK			Sep/25/1987
DRAWING NO:	A810214			REV:
				8



**GENERAL NOTES**

- POLE ORIENTATION DETERMINED BY OTHERS.
- REMOVE TOP TEMPLATE BEFORE INSTALLING BASE SECTION.
- SPECIAL CARE MUST BE TAKEN WHEN LIFTING ANCHOR BOLT CLUSTER IN ORDER TO PREVENT ANCHOR BOLT TEMPLATE DISTORTION.
- ANCHOR BOLT ASSEMBLY MUST BE ADEQUATELY SUPPORTED AND RESTRAINED TO PREVENT MOVEMENT OF THE CLUSTER DURING CONCRETE INSTALLATION.
- IT IS THE RESPONSIBILITY OF THE FOUNDATION CONTRACTOR TO VERIFY THAT THE CORRECT ANCHOR BOLT TEMPLATE AND FOUNDATION SHOWN ON RESPECTIVE SITE DRAWINGS ARE BEING USED.

**ANCHOR BOLT TIGHTENING NOTES**

- NUTS, THREADS AND ALL NUT CONTACT SURFACES MUST BE CLEANED AND LUBRICATED AFTER CONCRETE INSTALLATION AND IMMEDIATELY BEFORE INSTALLATION OF LEVELING AND TOP NUTS. NUTS MUST BE FREE TO MOVE THROUGHOUT THE ENTIRE LENGTH OF THE ANCHOR BOLT THREAD PROJECTION.
- AFTER LEVELING THE LEVELING NUTS AND SETTING THE BASE PLATE, TOP NUTS MUST BE INSTALLED IN AN INCREMENTAL STAR TIGHTENING SEQUENCE TO A SNUG TIGHT CONDITION FOLLOWED BY TIGHTENING THE LEVELING NUTS IN A SIMILAR PATTERN TO A SNUG TIGHT CONDITION. SNUG TIGHT IS DEFINED BY THE TIGHTNESS OBTAINED WITH THE EFFORT OF ONE PERSON WITH A 12 INCH NOMINAL LENGTH WRENCH.
- AFTER ALL TOP AND LEVELING NUTS ARE TIGHTENED TO A SNUG TIGHT CONDITION, TOP NUTS SHALL BE FURTHER TIGHTENED IN AN INCREMENTAL STAR PATTERN WITH THE LEVELING NUTS SECURED TO RESULT IN A 1/3 TOP NUT ROTATION FOR ANCHOR BOLTS 1 1/2 INCHES OR LESS IN DIAMETER, OR A 1/6 TOP NUT ROTATION FOR ANCHOR BOLTS GREATER THAN 1 1/2 INCHES IN DIAMETER.

**ANCHOR BOLT INSTALLATION TOLERANCES**

- CONCRETE DIMENSIONS - PLUS OR MINUS 1" [25mm].
- DEPTH OF FOUNDATION - PLUS 3" [76mm] OR MINUS 0".
- DRILLED FOUNDATIONS OUT OF PLUMB - 1.0°.
- REINFORCING STEEL PLACEMENT - PER A.C.I. 301.
- PROJECTION OF EMBEDMENTS - PLUS OR MINUS 1/8" [3mm]
- VERTICAL EMBEDMENTS OUT OF PLUMB - 1/2°.
- MAXIMUM DISTANCE FROM CENTER LINE OF ANCHOR BOLTS TO CENTERLINE OF FOUNDATION - 1/24 OF PIER DIAMETER UP TO A MAXIMUM OF 2" [50mm].
- ANCHOR BOLT SPACING - 1/16" [2mm].
- ANCHOR BOLT CIRCLE ORIENTATION - 1/4°.
- ANCHOR BOLT CIRCLE DIAMETER - PLUS OR MINUS 1/16" [2mm].

**!! WARNING !!**  
SEE SITE PLAN FOR PROPER ORIENTATION OF ANCHOR BOLTS

**!! WARNING !!**  
PRIOR TO PLACING CONCRETE:

- CHECK THAT THE TEMPLATE ANCHOR BOLT CIRCLE MATCHES THE ANCHOR BOLT CIRCLE SHOWN ON THE STRUCTURE DRAWING.
- CALL ROHN (309)-566-3000 FOR ANY DISCREPANCY.
- AFTER ANCHOR BOLTS ARE INSTALLED AND CONCRETE HAS TAKEN ITS INITIAL SET, ANCHOR BOLTS MUST NOT BE MOVED, BENT OR REALIGNED IN ANY MANNER.

FILE NO.				
REVISIONS				
REV	DESCRIPTION	DWN	CHK	APP
10	UPDATE TITLE BLOCK	ZAW	JDM	HA
DATE: 7/25/2013				



PO BOX 5999  
PEORIA, IL 61601-5999  
TOLL FREE 800-727-ROHN

THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.

**ANCHOR BOLT LAYOUT DETAILS FOR 18J ANCHOR BOLTS**

DWR:	JDM	CHK'D:	MSJ	DATE:	MAR/03/2001
ENGR:	TWS	SHEET #:	1 OF 1		
PRJ. ENGR:		PRJ. MANGR:			
DRAWING NO:	B010356			REV:	10



1 Fairholm Avenue  
P.O. Box 5999  
Peoria, IL 61603 USA  
Phone 309-566-3000  
FAX 309-566-3079  
Toll Free 800-727-ROHN

November 26, 2013

American Tower Corporation  
1898 Leland Drive  
Marietta, GA 30067

Attention: Mr. Ron Rohr

Reference: 190' Tapered Steel Pole  
Site # 281922 Leitchfield South, Grayson County KY  
Rohn File #: 208656

Dear Mr. Rohr:

The referenced pole is designed to meet the specified loading requirements in accordance with the ANSI/TIA/EIA-222-G ANSI/TIA/EIA-222-G-2005 for 90 MPH 3-second wind speed with no ice and 30 MPH 3 second gust wind speed with 0.75 inches radial ice. Structure Class: II; Exposure Category: C; Topographic Category: 1.

It is our understanding that the design of the referenced pole may require consideration of a contained fall radius in the event a catastrophic wind speed were to result in a failure. Although the pole is not designed to fail, stronger sections than required by analysis are provided in the lower portion of the pole. This would result in an increased safety factor in the lower sections. This design would enable the pole to fail through a combination of bending and buckling in the upper portion of the pole should a catastrophic wind loading occur. Failure in this manner would result in the upper portion of the pole folding over the lower portion resulting in a fall radius equal to 50 feet. The failure mode would theoretically be a local buckling failure involving a crippling of the pole on one side of the pole as opposed to the pole shearing off or completely breaking off and hitting the ground.

Please contact us at your convenience should you have further questions concerning the safety of pole structures or other aspects of pole design.

Sincerely,

A handwritten signature in black ink, appearing to read "Habib Azouri", is written over a circular professional engineer seal.

Habib Azouri, P.E.  
Engineering Manager  
Rohn Products LLC



12/5/13



File: 208656 Site: 1 Cycle: 1 Design: 1 Engineer: don\_g  
 Customer: AMERICAN TOWER CORPORATION  
 Site: LEITCHFIELD SOUTH 281922, KY  
 Type: POLE-TPR  
 Pole: Tapered Steel

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VHA

S U M M A R Y O F A N A L Y S I S R E S U L T S

Conditions ..... : 90 mph Basic Wind Speed (no ice) 60 mph Operational  
 ..... : 30 mph Basic Wind Speed (0.75" radial ice)  
 Building Code ..... : EIA Revision G  
 Exposure ..... : C  
 Gust response factor:..... : 1.10  
 Structural Category..... : II  
 Topographic Category..... : 1  
 Natural Frequency..... : 0.33 cps  
 Resonant Velocity..... : 5.28 mph  
 Pole Height..... : 190.00 ft  
 Top Diameter..... : 24.000 in  
 Bottom Diameter..... : 60.000 in  
 Embedment Depth..... : 0.00 ft  
 Pole Shape..... : 18-sided Polygon  
 Joint Type..... : Slip  
 Shaft Steel Weight..... : 34.784 kips

POLE SHAFT PROPERTIES:

Seq	Sect. Length (ft)	Wall Thickness (in)	Mat'l Yield [Fy] (ksi)	Top Diameter [Dt] (in)	Bottom Diameter [Db] (in)	Slip Joint Overlap (in)	Taper (in/ft)	Steel Weight (kips)
1	47.750	0.18750	65	24.000	33.770	53.00	0.2046	2.987
2	32.000	0.25000	65	32.330	38.880	61.00	0.2047	3.282
3	38.000	0.31250	65	37.180	44.960	71.00	0.2047	5.616
4	46.500	0.37500	65	42.970	52.480	82.00	0.2045	9.582
5	48.000	0.43750	65	50.180	60.000		0.2046	13.316

Design Bend Radius = 2.5 inches

POLE SHAFT SECTION MAXIMUM FORCES AND MOMENTS:

Seq	Load Case	Sect. Elev. (ft.)	At Base of Section				Max. Ratio Actual Allowable [Ftot/Fb]
			Axial Load (kips)	Bending Moment (ft-kips)	Horiz. Shear (kips)	Torsion (ft-Kips)	
1	Combo005	142.25	15.8555	731.4670	24.3153	0.0000	0.8880
2	Combo005	112.13	23.0669	1555.5967	26.9634	0.0000	0.9941
3	Combo005	78.79	33.9751	2565.1883	30.2725	0.0000	0.9623
4	Combo005	37.75	49.9425	3948.3933	34.5578	0.0000	0.9044
5	Combo005	0.00	68.2177	5626.0775	38.6112	0.0000	0.8261
DESIGN REACTIONS →			96.6040	5626.0775	38.8123	23.3514	←
OPERATIONAL REACTIONS →			57.6394	1316.0258	9.6249	5.8037	←
ADJUSTED REACTIONS →			102.0362	5942.4418	40.9948	24.6645	←

SECTION PROPERTIES:

Seq	Weight (kips)	Location	Elev (ft)	Diam Across Flats (in)	Wall Thick [t] (in)	[W/t] Ratio	Diam/Thick [D/t] Ratio	Area (in^2)	J (in^4)	I (in^4)
1	2.987	@Top	190.00	24.000	0.1875	17.52	128.00	14.17	2035.5	1015.2
		@Splice	146.67	31.980		25.02	170.56	18.92	4844.3	2416.1
		@Bot	142.25	33.770		26.70	180.11	19.99	5709.5	2847.6
2	3.282	@Top	144.13	32.330	0.2500	18.92	129.32	25.45	6635.9	3309.7
		@Splice	117.21	38.360		23.18	153.44	30.24	11125.3	5548.8
		@Bot	112.13	38.880		23.54	155.52	30.65	11587.0	5779.1
3	5.616	@Top	116.79	37.180	0.3125	17.80	118.98	36.57	12590.3	6279.5
		@Splice	84.71	44.350		21.85	141.92	43.68	21457.2	10701.9
		@Bot	78.79	44.960		22.19	143.87	44.28	22361.3	11152.8
4	9.582	@Top	84.25	42.970	0.3750	17.50	114.59	50.70	23300.4	11621.2
		@Splice	44.58	51.780		21.64	138.08	61.18	40954.7	20426.4
		@Bot	37.75	52.480		21.97	139.95	62.02	42650.6	21272.3
5	13.316	@Top	48.00	50.180	0.4375	17.86	114.70	69.07	43292.9	21592.6
		@Bot	0.00	60.000		21.81	137.14	82.71	74328.1	37071.6

Total Shaft Steel Weight = 34.784 kips



ROHN Products LLC.

File: 208656 Site: 1 Cycle: 1 Design: 1 Engineer: don\_g  
 Customer: AMERICAN TOWER CORPORATION  
 Site: LEITCHFIELD SOUTH 281922  
 Type: POLE-TPR  
 Pole: Tapered Steel

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PROPERTIES:

( @ Max Segment = 5.0 ft)

Node No.	Node Elev. (ft)	Diam. Across Flats (in)	Wall Thick [t] (in)	[W/t] Ratio	Diam/Thick [D/t] Ratio	Area (in^2)	J (in^4)	I (in^4)
58	190.000	24.00	0.1875	17.52	128.00	14.17	2035.5	1015.2
57	185.667	24.89	0.1875	18.35	132.73	14.70	2271.4	1132.9
56	181.333	25.77	0.1875	19.18	137.46	15.23	2525.0	1259.3
55	177.000	26.66	0.1875	20.02	142.19	15.75	2796.6	1394.8
54	172.667	27.55	0.1875	20.85	146.91	16.28	3087.2	1539.7
53	168.333	28.43	0.1875	21.68	151.64	16.81	3397.1	1694.3
52	164.000	29.32	0.1875	22.52	156.37	17.34	3727.2	1859.0
51	159.667	30.21	0.1875	23.35	161.10	17.86	4077.9	2033.9
50	155.333	31.09	0.1875	24.19	165.83	18.39	4450.1	2219.5
49	151.000	31.98	0.1875	25.02	170.56	18.92	4844.2	2416.1
480	146.667	32.87	0.1875	25.85	175.29	19.45	5260.8	2623.9
48I	146.667	32.33	0.2500	18.92	129.32	25.45	6636.1	3309.8
47	142.250	33.23	0.2500	19.56	132.94	26.17	7212.8	3597.4
46	140.000	33.69	0.2500	19.89	134.78	26.54	7519.2	3750.3
45	137.750	34.16	0.2500	20.21	136.62	26.90	7834.1	3907.3
44	135.500	34.62	0.2500	20.54	138.46	27.27	8157.8	4068.7
43	133.250	35.08	0.2500	20.86	140.30	27.63	8490.1	4234.5
42	131.000	35.54	0.2500	21.19	142.15	28.00	8831.5	4404.7
41	128.750	36.00	0.2500	21.51	143.99	28.36	9181.8	4579.5
40	126.500	36.46	0.2500	21.83	145.83	28.73	9541.3	4758.8
39	124.250	36.92	0.2500	22.16	147.67	29.10	9910.0	4942.7
38	122.000	37.38	0.2500	22.48	149.52	29.46	10288.1	5131.3
37	119.750	37.84	0.2500	22.81	151.36	29.83	10675.7	5324.6
360	117.208	38.36	0.2500	23.18	153.44	30.24	11125.2	5548.7
37I	119.750	37.18	0.3125	17.81	118.98	36.57	12590.6	6279.7
36	117.208	37.70	0.3125	18.10	120.64	37.08	13131.2	6549.2
35	114.667	38.22	0.3125	18.39	122.31	37.60	13686.9	6826.4
34	111.967	38.77	0.3125	18.70	124.08	38.15	14294.5	7129.5
33	109.267	39.33	0.3125	19.02	125.84	38.70	14919.7	7441.3
32	106.567	39.88	0.3125	19.33	127.61	39.24	15563.0	7762.1
31	103.867	40.43	0.3125	19.64	129.38	39.79	16224.4	8092.0
30	101.167	40.98	0.3125	19.95	131.15	40.34	16904.4	8431.2
29	98.467	41.54	0.3125	20.26	132.92	40.89	17603.1	8779.6
28	95.767	42.09	0.3125	20.58	134.69	41.44	18320.7	9137.6
27	93.067	42.64	0.3125	20.89	136.46	41.99	19057.6	9505.1
26	90.367	43.20	0.3125	21.20	138.23	42.53	19814.1	9882.4
25	87.667	43.75	0.3125	21.51	140.00	43.08	20590.1	10269.4
240	84.708	44.35	0.3125	21.85	141.93	43.68	21463.5	10705.1
25I	87.667	42.97	0.3750	17.50	114.58	50.70	23298.3	11620.2
24	84.708	43.57	0.3750	17.79	116.20	51.42	24306.4	12123.0
23	81.750	44.18	0.3750	18.07	117.81	52.14	25343.2	12640.1
22	78.375	44.87	0.3750	18.39	119.65	52.96	26560.1	13247.0
21	75.000	45.56	0.3750	18.72	121.49	53.78	27815.4	13873.1
20	71.625	46.25	0.3750	19.04	123.34	54.60	29109.7	14518.7
19	68.250	46.94	0.3750	19.37	125.18	55.42	30443.5	15183.9
18	64.875	47.63	0.3750	19.69	127.02	56.24	31817.5	15869.2
17	61.500	48.32	0.3750	20.02	128.86	57.07	33232.1	16574.7
16	58.125	49.01	0.3750	20.34	130.70	57.89	34688.0	17300.9
15	54.750	49.70	0.3750	20.67	132.54	58.71	36186.1	18048.0
14	51.375	50.39	0.3750	20.99	134.38	59.53	37726.4	18816.3
13	48.000	51.08	0.3750	21.32	136.22	60.35	39310.1	19606.1
120	44.583	51.78	0.3750	21.64	138.08	61.18	40957.5	20427.8
13I	48.000	50.18	0.4375	17.86	114.70	69.07	43294.2	21593.3
12	44.583	50.88	0.4375	18.14	116.30	70.04	45144.3	22516.0
11	41.167	51.58	0.4375	18.42	117.89	71.01	47046.7	23464.8
10	37.050	52.42	0.4375	18.76	119.82	72.18	49409.5	24643.3



ROHN Products LLC.

File: 208656 Site: 1 Cycle: 1 Design: 1 Engineer: don\_g  
Customer: AMERICAN TOWER CORPORATION  
Site: LEITCHFIELD SOUTH 281922  
Type: POLE-TPR  
Pole: Tapered Steel

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Node No.	Node Elev. (ft)	Diam. Across Flats (in)	Wall Thick [t] (in)	[W/t] Ratio	Diam/ Thick [D/t] Ratio	Area (in <sup>2</sup> )	J (in <sup>4</sup> )	I (in <sup>4</sup> )
9	32.933	53.26	0.4375	19.10	121.74	73.35	51850.2	25860.6
8	28.817	54.10	0.4375	19.44	123.67	74.52	54369.9	27117.3
7	24.700	54.95	0.4375	19.78	125.59	75.69	56970.0	28414.1
6	20.583	55.79	0.4375	20.12	127.52	76.86	59651.6	29751.6
5	16.467	56.63	0.4375	20.46	129.44	78.03	62416.2	31130.4
4	12.350	57.47	0.4375	20.80	131.37	79.20	65264.8	32551.2
3	8.233	58.32	0.4375	21.14	133.29	80.37	68198.8	34014.6
2	4.117	59.16	0.4375	21.47	135.22	81.54	71219.5	35521.2
1	0.000	60.00	0.4375	21.81	137.14	82.71	74328.1	37071.6



ROHN Products LLC.

File: 208656 Site: 1 Cycle: 1 Design: 1 Engineer: don\_g
Customer: AMERICAN TOWER CORPORATION
Site: LEITCHFIELD SOUTH 281922
Type: POLE-TPR
Pole: Tapered Steel

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DISCRETE APPURTENANCE PROPERTIES

Table with columns: Elev. (ft), Description, Weight (W/o Ice, W/ Ice), Az., Offset (in), EPA (W/o Ice, W/ Ice), Lines. Contains 4 rows of discrete appurtenance data.

LINEAR APPURTENANCE PROPERTIES

Table with columns: Elev (From, To), Description, Weight (lb/ft), Width (Round, Flat). Contains 1 row of linear appurtenance data.



# ROHN Products LLC.

File: 208656 Site: 1 Cycle: 1 Design: 1 Engineer: don\_g  
 Customer: AMERICAN TOWER CORPORATION  
 Site: LEITCHFIELD SOUTH 281922  
 Type: POLE-TPR  
 Pole: Tapered Steel

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## PRESSURES

Seg.	Elev. (ft)	Kz	W/o Ice		With Ice		Operational	
			G <sub>H</sub> qz	Cf	G <sub>H</sub> qz	Cf	G <sub>H</sub> qz	Cf
1-11	187.833	1.445	31.317	0.650	3.480	1.200	12.454	0.650
1-10	183.500	1.438	31.164	0.650	3.463	1.200	12.393	0.650
1-9	179.167	1.431	31.007	0.650	3.445	1.200	12.330	0.650
1-8	174.833	1.424	30.848	0.650	3.428	1.200	12.267	0.650
1-7	170.500	1.416	30.685	0.650	3.409	1.200	12.202	0.650
1-6	166.167	1.408	30.519	0.650	3.391	1.200	12.136	0.650
1-5	161.833	1.401	30.350	0.650	3.372	1.200	12.069	0.650
1-4	157.500	1.393	30.177	0.650	3.353	1.200	12.000	0.650
1-3	153.167	1.384	30.000	0.650	3.333	1.200	11.930	0.650
1-2	148.833	1.376	29.820	0.650	3.313	1.200	11.858	0.650
1-1	144.458	1.368	29.633	0.650	3.293	1.200	11.784	0.650
2-13	144.458	1.368	29.633	0.650	3.293	1.200	11.784	0.650
2-12	141.125	1.361	29.488	0.650	3.276	1.200	11.726	0.650
2-11	138.875	1.356	29.388	0.650	3.265	1.200	11.686	0.650
2-10	136.625	1.352	29.287	0.650	3.254	1.200	11.646	0.650
2-9	134.375	1.347	29.185	0.650	3.243	1.200	11.606	0.650
2-8	132.125	1.342	29.081	0.650	3.231	1.200	11.565	0.650
2-7	129.875	1.337	28.976	0.650	3.220	1.200	11.523	0.650
2-6	127.625	1.332	28.870	0.650	3.208	1.200	11.480	0.650
2-5	125.375	1.327	28.762	0.650	3.196	1.200	11.438	0.650
2-4	123.125	1.322	28.653	0.650	3.184	1.200	11.394	0.650
2-3	120.875	1.317	28.542	0.650	3.171	1.200	11.350	0.650
2-2	118.479	1.312	28.422	0.650	3.158	1.200	11.302	0.650
2-1	115.938	1.306	28.292	0.650	3.144	1.200	11.251	0.650
3-14	118.479	1.312	28.422	0.650	3.158	1.200	11.302	0.650
3-13	115.938	1.306	28.292	0.650	3.144	1.200	11.251	0.650
3-12	113.317	1.299	28.156	0.650	3.128	1.200	11.197	0.650
3-11	110.617	1.293	28.014	0.650	3.113	1.200	11.140	0.650
3-10	107.917	1.286	27.868	0.650	3.096	1.200	11.082	0.650
3-9	105.217	1.279	27.720	0.650	3.080	1.200	11.023	0.650
3-8	102.517	1.272	27.569	0.650	3.063	1.200	10.963	0.650
3-7	99.817	1.265	27.414	0.650	3.046	1.200	10.902	0.650
3-6	97.117	1.258	27.256	0.650	3.028	1.200	10.839	0.650
3-5	94.417	1.250	27.095	0.650	3.011	1.200	10.775	0.650
3-4	91.717	1.243	26.930	0.650	2.992	1.200	10.709	0.650
3-3	89.017	1.235	26.761	0.650	2.973	1.200	10.642	0.650
3-2	86.188	1.227	26.580	0.650	2.953	1.200	10.570	0.650
3-1	83.229	1.218	26.385	0.650	2.932	1.200	10.492	0.650
4-14	86.188	1.227	26.580	0.650	2.953	1.200	10.570	0.650
4-13	83.229	1.218	26.385	0.650	2.932	1.200	10.492	0.650
4-12	80.063	1.208	26.171	0.650	2.908	1.200	10.407	0.650
4-11	76.688	1.197	25.934	0.650	2.882	1.200	10.313	0.650
4-10	73.313	1.186	25.690	0.650	2.854	1.200	10.216	0.650
4-9	69.938	1.174	25.436	0.650	2.826	1.200	10.115	0.650
4-8	66.563	1.162	25.173	0.650	2.797	1.200	10.010	0.650
4-7	63.188	1.149	24.898	0.650	2.766	1.200	9.901	0.650
4-6	59.813	1.136	24.612	0.650	2.735	1.200	9.787	0.650
4-5	56.438	1.122	24.313	0.650	2.701	1.200	9.668	0.650
4-4	53.063	1.108	24.000	0.650	2.667	1.200	9.544	0.650
4-3	49.688	1.092	23.670	0.650	2.630	1.200	9.413	0.650
4-2	46.292	1.076	23.320	0.650	2.591	1.200	9.273	0.650
4-1	42.875	1.059	22.946	0.650	2.550	1.200	9.125	0.650
5-12	46.292	1.076	23.320	0.650	2.591	1.200	9.273	0.650
5-11	42.875	1.059	22.946	0.650	2.550	1.200	9.125	0.650
5-10	39.108	1.039	22.506	0.650	2.501	1.200	8.950	0.650
5-9	34.992	1.015	21.986	0.650	2.443	1.200	8.743	0.650
5-8	30.875	0.988	21.414	0.650	2.379	1.200	8.515	0.650
5-7	26.758	0.959	20.778	0.650	2.309	1.200	8.263	0.650
5-6	22.642	0.926	20.060	0.650	2.229	1.200	7.977	0.650
5-5	18.525	0.887	19.230	0.650	2.137	1.200	7.647	0.650
5-4	14.408	0.850	18.419	0.650	2.047	1.200	7.324	0.650
5-3	10.292	0.850	18.419	0.650	2.047	1.200	7.324	0.650
5-2	6.175	0.850	18.419	0.650	2.047	1.200	7.324	0.650
5-1	2.058	0.850	18.419	0.650	2.047	1.200	7.324	0.650



File: 208656 Site: 1 Cycle: 1 Design: 1 Engineer: don\_g  
 Customer: AMERICAN TOWER CORPORATION  
 Site: LEITCHFIELD SOUTH 281922  
 Type: POLE-TPR  
 Pole: Tapered Steel

MOMENTS, FORCES AND DEFLECTIONS

Node	Elev.	Moment			Shear		Torsion (ft-k)	Operational		
		Axial (kips)	My (ft-k)	Mz (ft-k)	Vy (kips)	Vz (kips)		Deflection (in)	Twist (deg)	Sway (deg)
58	190.000	4.990	0.00	4.66	0.02	0.54	0.616	49.129	0.065	2.445
57	185.667	2.743	0.00	27.53	5.73	0.00	0.000	46.912	0.063	2.439
56	181.333	4.676	0.00	56.15	9.65	0.00	0.000	44.701	0.061	2.428
55	177.000	5.843	0.00	102.38	11.58	0.00	0.000	42.504	0.059	2.409
54	172.667	7.225	0.00	158.09	13.89	0.00	0.000	40.328	0.056	2.382
53	168.333	9.169	0.00	225.42	17.40	0.00	0.000	38.180	0.052	2.346
52	164.000	9.999	0.00	307.99	18.14	0.00	0.000	36.069	0.049	2.301
51	159.667	12.721	0.00	396.54	23.19	0.00	0.000	34.002	0.045	2.248
50	155.333	13.509	0.00	506.27	23.56	0.00	0.000	31.987	0.040	2.185
49	151.000	14.550	0.00	617.87	23.93	0.00	0.000	30.034	0.036	2.113
48	146.667	15.856	0.00	731.47	24.32	0.00	0.000	28.148	0.033	2.035
47	142.250	16.761	0.00	849.45	24.61	0.00	0.000	26.298	0.030	1.960
46	140.000	17.251	0.00	910.37	24.81	0.00	0.000	25.382	0.028	1.924
45	137.750	17.745	0.00	971.79	25.01	0.00	0.000	24.483	0.027	1.887
44	135.500	18.242	0.00	1033.72	25.22	0.00	0.000	23.602	0.026	1.850
43	133.250	18.743	0.00	1096.16	25.42	0.00	0.000	22.738	0.025	1.812
42	131.000	19.247	0.00	1159.09	25.63	0.00	0.000	21.893	0.023	1.773
41	128.750	19.755	0.00	1222.51	25.84	0.00	0.000	21.066	0.022	1.733
40	126.500	20.267	0.00	1286.43	26.05	0.00	0.000	20.258	0.021	1.694
39	124.250	20.782	0.00	1350.84	26.27	0.00	0.000	19.469	0.020	1.653
38	122.000	21.301	0.00	1415.73	26.48	0.00	0.000	18.698	0.019	1.613
37	119.750	22.064	0.00	1481.10	26.72	0.00	0.000	17.947	0.018	1.572
36	117.208	23.067	0.00	1555.60	26.96	0.00	0.000	17.121	0.017	1.529
36	117.208	23.067	0.00	1555.60	26.96	0.00	0.000	17.121	0.017	1.529
35	114.667	23.927	0.00	1630.83	27.22	0.00	0.000	16.318	0.017	1.486
34	111.967	24.654	0.00	1711.49	27.48	0.00	0.000	15.489	0.016	1.444
33	109.267	25.387	0.00	1792.87	27.75	0.00	0.000	14.684	0.015	1.401
32	106.567	26.126	0.00	1874.96	28.02	0.00	0.000	13.903	0.014	1.358
31	103.867	26.873	0.00	1957.75	28.29	0.00	0.000	13.146	0.013	1.316
30	101.167	27.621	0.00	2041.24	28.56	0.00	0.000	12.413	0.013	1.273
29	98.467	28.380	0.00	2125.42	28.83	0.00	0.000	11.705	0.012	1.230
28	95.767	29.146	0.00	2210.28	29.11	0.00	0.000	11.020	0.011	1.188
27	93.067	29.918	0.00	2295.83	29.39	0.00	0.000	10.360	0.011	1.145
26	90.367	30.997	0.00	2382.05	29.67	0.00	0.000	9.724	0.010	1.102
25	87.667	32.450	0.00	2469.00	29.96	0.00	0.000	9.112	0.010	1.060
24	84.708	33.975	0.00	2565.19	30.27	0.00	0.000	8.468	0.009	1.016
24	84.708	33.975	0.00	2565.19	30.27	0.00	0.000	8.468	0.009	1.016
23	81.750	35.296	0.00	2662.31	30.60	0.00	0.000	7.851	0.008	0.973
22	78.375	36.423	0.00	2774.17	30.96	0.00	0.000	7.178	0.008	0.927
21	75.000	37.562	0.00	2887.05	31.31	0.00	0.000	6.539	0.007	0.881
20	71.625	38.714	0.00	3000.95	31.67	0.00	0.000	5.931	0.007	0.835
19	68.250	39.877	0.00	3115.86	32.03	0.00	0.000	5.356	0.006	0.790
18	64.875	41.053	0.00	3231.75	32.38	0.00	0.000	4.813	0.006	0.745
17	61.500	42.241	0.00	3348.61	32.75	0.00	0.000	4.302	0.005	0.700
16	58.125	43.441	0.00	3466.42	33.11	0.00	0.000	3.822	0.005	0.656
15	54.750	44.653	0.00	3585.17	33.47	0.00	0.000	3.373	0.005	0.612
14	51.375	45.878	0.00	3704.83	33.83	0.00	0.000	2.956	0.004	0.568
13	48.000	47.642	0.00	3825.38	34.19	0.00	0.000	2.569	0.004	0.525
12	44.583	49.942	0.00	3948.39	34.56	0.00	0.000	2.208	0.003	0.483
12	44.583	49.942	0.00	3948.39	34.56	0.00	0.000	2.208	0.003	0.483
11	41.167	51.950	0.00	4072.42	34.95	0.00	0.000	1.876	0.003	0.442
10	37.050	53.673	0.00	4223.06	35.38	0.00	0.000	1.514	0.003	0.396
9	32.933	55.418	0.00	4374.92	35.81	0.00	0.000	1.192	0.002	0.349
8	28.817	57.184	0.00	4527.93	36.23	0.00	0.000	0.910	0.002	0.304
7	24.700	58.970	0.00	4682.05	36.64	0.00	0.000	0.666	0.002	0.259
6	20.583	60.774	0.00	4837.19	37.04	0.00	0.000	0.462	0.001	0.214
5	16.467	62.603	0.00	4993.29	37.43	0.00	0.000	0.295	0.001	0.170
4	12.350	64.454	0.00	5150.26	37.82	0.00	0.000	0.166	0.001	0.127
3	8.233	66.325	0.00	5308.06	38.21	0.00	0.000	0.074	0.001	0.084
2	4.117	68.218	0.00	5466.67	38.61	0.00	0.000	0.019	0.000	0.042
1	0.000	68.218	0.00	5626.08	38.61	0.00	0.000	0.000	0.000	0.000



ROHN Products LLC.

File: 208656 Site: 1 Cycle: 1 Design: 1 Engineer: don\_g  
 Customer: AMERICAN TOWER CORPORATION  
 Site: LEITCHFIELD SOUTH 281922  
 Type: POLE-TPR  
 Pole: Tapered Steel

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ACTUAL AND ALLOWABLE STRESSES

Node	Elevation (ft)	Actual Stresses					Combined [Ftot] (ksi)	Allowable Stress [Fb] (ksi)	Combined Stress Ratio
		Axial [fa] (ksi)	Bending [fb] (ksi)	Shear [fv] (ksi)	Torsion [ft] (ksi)				
58	190.000	0.352	0.671	0.076	0.044	1.038	80.800	0.0141	
57	185.667	0.187	3.685	0.780	0.000	4.479	79.819	0.0540	
56	181.333	0.307	7.001	1.268	0.000	8.916	78.838	0.1033	
55	177.000	0.371	11.922	1.470	0.000	14.454	77.858	0.1759	
54	172.667	0.444	17.232	1.707	0.000	20.588	76.877	0.2561	
53	168.333	0.546	23.047	2.071	0.000	27.880	75.896	0.3463	
52	164.000	0.577	29.596	2.093	0.000	34.553	74.916	0.4485	
51	159.667	0.712	35.881	2.597	0.000	43.335	73.935	0.5514	
50	155.333	0.735	43.211	2.562	0.000	50.508	72.954	0.6708	
49	151.000	0.769	49.827	2.530	0.000	56.996	71.974	0.7826	
480	146.667	0.815	55.821	2.501	0.000	62.890	70.993	0.8880	
48I	146.667	0.623	43.531	1.910	0.000	47.804	79.143	0.6206	
47	142.250	0.640	47.811	1.881	0.000	51.988	78.393	0.6874	
46	140.000	0.650	49.833	1.870	0.000	53.979	78.011	0.7197	
45	137.750	0.660	51.755	1.860	0.000	55.872	77.629	0.7509	
44	135.500	0.669	53.582	1.850	0.000	57.672	77.247	0.7810	
43	133.250	0.678	55.320	1.840	0.000	59.384	76.865	0.8102	
42	131.000	0.687	56.973	1.831	0.000	61.013	76.483	0.8384	
41	128.750	0.696	58.548	1.822	0.000	62.564	76.101	0.8657	
40	126.500	0.705	60.046	1.814	0.000	64.041	75.719	0.8922	
39	124.250	0.714	61.473	1.806	0.000	65.448	75.337	0.9179	
38	122.000	0.723	62.832	1.798	0.000	66.788	74.955	0.9428	
37	119.750	0.740	64.128	1.791	0.000	68.077	74.573	0.9672	
360	117.208	0.763	65.521	1.783	0.000	69.464	74.141	0.9941	
37I	119.750	0.603	53.427	1.461	0.000	56.166	80.459	0.7466	
36	117.208	0.622	54.557	1.454	0.000	57.294	80.114	0.7657	
35	114.667	0.636	55.630	1.448	0.000	58.363	79.768	0.7842	
34	111.967	0.646	56.709	1.441	0.000	59.432	79.401	0.8030	
33	109.267	0.656	57.727	1.434	0.000	60.440	79.035	0.8212	
32	106.567	0.666	58.689	1.428	0.000	61.393	78.668	0.8387	
31	103.867	0.675	59.597	1.422	0.000	62.293	78.301	0.8557	
30	101.167	0.685	60.454	1.416	0.000	63.144	77.934	0.8721	
29	98.467	0.694	61.264	1.410	0.000	63.947	77.567	0.8879	
28	95.767	0.703	62.030	1.405	0.000	64.707	77.200	0.9033	
27	93.067	0.713	62.752	1.400	0.000	65.425	76.833	0.9182	
26	90.367	0.729	63.435	1.395	0.000	66.110	76.467	0.9328	
25	87.667	0.753	64.082	1.391	0.000	66.770	76.100	0.9471	
240	84.708	0.778	64.754	1.386	0.000	67.453	75.698	0.9623	
25I	87.667	0.640	55.624	1.182	0.000	57.661	80.817	0.7738	
24	84.708	0.661	56.175	1.178	0.000	58.222	80.482	0.7849	
23	81.750	0.677	56.694	1.174	0.000	58.749	80.147	0.7956	
22	78.375	0.688	57.250	1.169	0.000	59.304	79.765	0.8073	
21	75.000	0.698	57.766	1.164	0.000	59.820	79.384	0.8186	
20	71.625	0.709	58.244	1.160	0.000	60.299	79.002	0.8294	
19	68.250	0.720	58.688	1.156	0.000	60.743	78.620	0.8398	
18	64.875	0.730	59.098	1.152	0.000	61.154	78.238	0.8499	
17	61.500	0.740	59.478	1.148	0.000	61.536	77.857	0.8597	
16	58.125	0.750	59.829	1.144	0.000	61.888	77.475	0.8691	
15	54.750	0.761	60.152	1.140	0.000	62.213	77.093	0.8782	
14	51.375	0.771	60.450	1.137	0.000	62.513	76.711	0.8870	
13	48.000	0.789	60.723	1.133	0.000	62.797	76.330	0.8957	
120	44.583	0.816	60.978	1.130	0.000	63.070	75.943	0.9044	
13I	48.000	0.690	54.162	0.990	0.000	55.832	80.398	0.7582	
12	44.583	0.713	54.359	0.987	0.000	56.045	80.067	0.7644	
11	41.167	0.732	54.538	0.984	0.000	56.239	79.736	0.7704	
10	37.050	0.744	54.730	0.980	0.000	56.435	79.336	0.7771	



ROHN Products LLC.

File: 208656 Site: 1 Cycle: 1 Design: 1 Engineer: don\_g
Customer: AMERICAN TOWER CORPORATION
Site: LEITCHFIELD SOUTH 281922
Type: POLE-TPR
Pole: Tapered Steel

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Table with 9 columns: Node, Elevation (ft), Axial [fa] (ksi), Bending [fb] (ksi), Shear [fv] (ksi), Torsion [ft] (ksi), Combined [Ftot] (ksi), Allowable Stress [Fb] (ksi), Combined Stress Ratio. Rows 1-9 show stress data for different nodes.



ROHN Products LLC.

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SUMMARY OF BASEPLATE DESIGN

Table with 2 columns: PLATE and ANCHOR BOLTS. Rows include Pole Diameter at Base, Plate Diameter, Plate Thickness, Plate Weight (Black), Fy, Fu, Size, Grade, No. Of Bolts, Bolt Circle, and Fy.

MAXIMUM POLE REACTIONS:

Axial = 96.60 kips
Moment = 5,626.08 ft-kips
Shear = 38.81 kips
Torsion = 23.35 ft-kips

ANCHOR BOLTS:

Axial = 207.8 kips/bolt
Moment = 1.9 in-kips/bolt
Shear = 2.9 kips/bolt

DESIGN STRENGTH:

Axial = 260.0 kips/bolt
Moment = 126.3 in-kips/bolt
Shear = 134.2 kips/bolt

ANCHOR BOLT STRESS RATIO = 0.822 < 1.0 OK

PLATE:

Required Thickness = 2.19 in.

PLATE THICKNESS INTERACTION RATIO = 0.878 < 1.0 OK

MIN. Reinforcing WELD SIZE:

Outside = 0.6250 in.
Inside = 0.6250 in.

Customer: AMERICAN TOWER  
 Project: 190 FT. TAPERED STEEL POLE  
 Site: LEITCHFIELD SOUTH 281922  
 Engr. File: 208656  
 Build Code: ANSI/TIA-222-G-2005



# Mat Foundation

ver.1.3.9

## Design Parameters

Description	Load Case					Service
	1	2	3	4	5	
Total Moment, ft-kips	5,942.40					1,316.00
Total Shear, kips	41.00					9.60
Total Tower Wt, kips	102.00					57.60
Max. Uplift, kips	n/a					n/a
Shear, kips	N/a					N/a
Max. Download, kips	n/a					n/a
Shear	N/a					N/a
Soil L.F.	1.20					1.00
Concrete L.F.	1.20					1.00

Foundation	
Ht. AGL, ft	0.50
Depth, ft.	6.00
Pole	
Butt OD, ft	5.58
Offset, in	.00
Soil	
Blow Count	N/a
Inplace Unit Wt, pcf	110.00
Submerged Unit Wt, pcf	60.00
Friction Angle, $\phi$ , deg.	30.00
Cohesion, ksf	N/a
Uplift Angle, deg.	30.00
Water Depth, ft	None
Ult Bearing Capacity, ksf	30.00

Mat	
Thickness, ft	3.00
Width, ft	23.00
EA, in	18.00
Batter, in/ft	0.00

Pier	
Height, ft	3.50
Diameter, ft	8.00
No. Piers	1
Shape	Round

Anchor Bolts	
Diameter, in	2.2500
No.	16
Length, in	84.00
Bolt Circle, in	67.00
Projection, in	12.00

Pocket	
Diameter, in	N/a
Thickness, ft	N/a

Concrete	
28 Day Strength, ksi	4.00
Dry Unit Wt, pcf	150.00
Wet Unit Wt, pcf	88.00

Rebar Fy	
Vertical, ksi	60.00
Circular, ksi	60.00
Horizontal, ksi	60.00

## Results

$\phi M_N$  - Parallel Axis                      6,467.2    ft-kips  
 $\phi M_N$  - Diagonal Axis                      7,963.2    ft-kips  
 Moment - Interaction Ratio                      0.960  
 $\phi V_N$  - Lateral Load                      126.57    kips  
 Lateral Load - Interaction Ratio                      0.324

Final Mat Dimension        : 23.00 x 23.00 x 3.00 ft. thick w/ (1) 8.00 ft dia. Pier

Final Pocket Dimension    : Pockets not required

Total Volume of Concrete : 65.3 yd<sup>3</sup>

Designed By: DWG  
 Date: 26 Nov,13 @ 02:38 PM

Checked By: HA  
 Date: 11/26/13

Customer: AMERICAN TOWER  
 Project: 190 FT. TAPERED STEEL POLE  
 Site: LEITCHFIELD SOUTH 281922  
 Engr. File: 208656  
 Build Code: ANSI/TIA-222-G-2005



# Mat Foundation

ver.1.3.9

## Design: Min. Foundation Width

Controlling Load Case: 1 [Wind w/Max. Dead Load]

Foundation Width = 23.00 ft

$M_U = 6,208.9$  ft-kips

	$\phi M_N$ , ft-kips	x, ft	N	$\sigma_{ur}$
Parallel	6,467.2	2.300	0.100	15.61
Diagonal	7,963.2	5.246	0.161	n/a

$\phi M_N = 6,467.18$  ft-kips

IRatio = 0.960 ✓

$\phi V_N = 126.57$  kips

IRatio = 0.324 ✓

WARNING: The stress block is less than or equal to the minimum of 0.1 x mat width.

## Mat Design

$\gamma_e = 130.00$  pcf

	x, ft	N	$\sigma_R$ , ksf	Moment, ft-kips			Shear, kips		
				Rt	Lt	$M_U$ /ft	Rt	Lt	$V_U$ /ft
Parallel	3.107	0.135	8.66	5,086.82	1,488.85	221.17	568.59	257.42	24.72
Diagonal	9.475	0.291	6.89	5,147.88	1,407.43	158.27	555.73	257.42	17.09
Use			8.66			221.17			24.72

⊗ Ultimate soil bearing capacity required

## Punching Shear

	Download			Uplift		
	Interior	Edge	Corner	Interior	Edge	Corner
$b_o$ , ft	38.69	N/a	N/a	N/a	N/a	N/a
$V_{su}$ , psi	191.49	N/a	N/a	N/a	N/a	N/a
$\phi V_c$ , psi	215.03	N/a	N/a	N/a	N/a	N/a
IR	0.89	N/a	N/a	N/a	N/a	N/a

Critical Sections: a = 11.50 ft.

b = 11.50 ft

c = 11.50 ft

g = 11.50 ft (min. of a, b, & c)

## Mat Reinforcement

Min. Steel Area (Strength) = 1.601 in<sup>2</sup>/ft.

Min Steel Area (Temperature) = .389 in<sup>2</sup>/ft.

Height of compression block, x = 3.90 in.

## One-Way Shear

$V_U = 24.72$  kips

$\phi V_c = 40.00$  kips

Min. Slab Thickness = 24.2 in.

38 - #9 Horizontal bars equally spaced @7.30 in., each way, top and bottom.  
 (Total of 152)

Designed By: DWG  
 Date: 26 Nov,13 @ 02:38 PM

Checked By: HA  
 Date: 11/26/13

Customer: AMERICAN TOWER  
Project: 190 FT. TAPERED STEEL POLE  
Site: LEITCHFIELD SOUTH 281922  
Engr. File: 208656  
Build Code: ANSI/TIA-222-G-2005



# Mat Foundation

ver.1.3.9

## Pier Design

Controlling Load Case: 1 [Wind w/Max. Dead Load]

C = 102.00 kips	Vc = 41.00 kips	Mc = 6,085.90 ft-kips
T = .00 kips	Vt = .00 kips	Mt = .00 ft-kips
Fy = 60.00 ksi	Fyt = 60.00 ksi	L.F. = 1.00
H = 96.00 in.	Ds = 87.00 in.	F'c = 4.00 ksi
U = 1.00	Irs = Round	

\*\*\* NOTE: Pier cross section is Round \*\*\*

## SUMMARY OF ANALYSIS

Minimum area of steel required	= 36.191 in <sup>2</sup>	(Rhom in = 0.0050)
Area of steel provided.	= 37.974 in <sup>2</sup>	(Rho actual = 0.0052)
Maximum steel area limit	= 579.060 in <sup>2</sup>	(Rho max = 0.0800)

(38) #9 Vertical Bars equally spaced w/ #5 Circular Ties @ 3" on center.

## CIRCULAR TIE DATA

$V_u < 0.85 * V_c / 2$ , shear reinforcement is not required

Use maximum tie spacing specified in ACI 318,  
Section 7.10.5 for compression reinforcement.

## DEVELOPMENT LENGTH MODIFIERS FOR BAR DEVELOPMENT

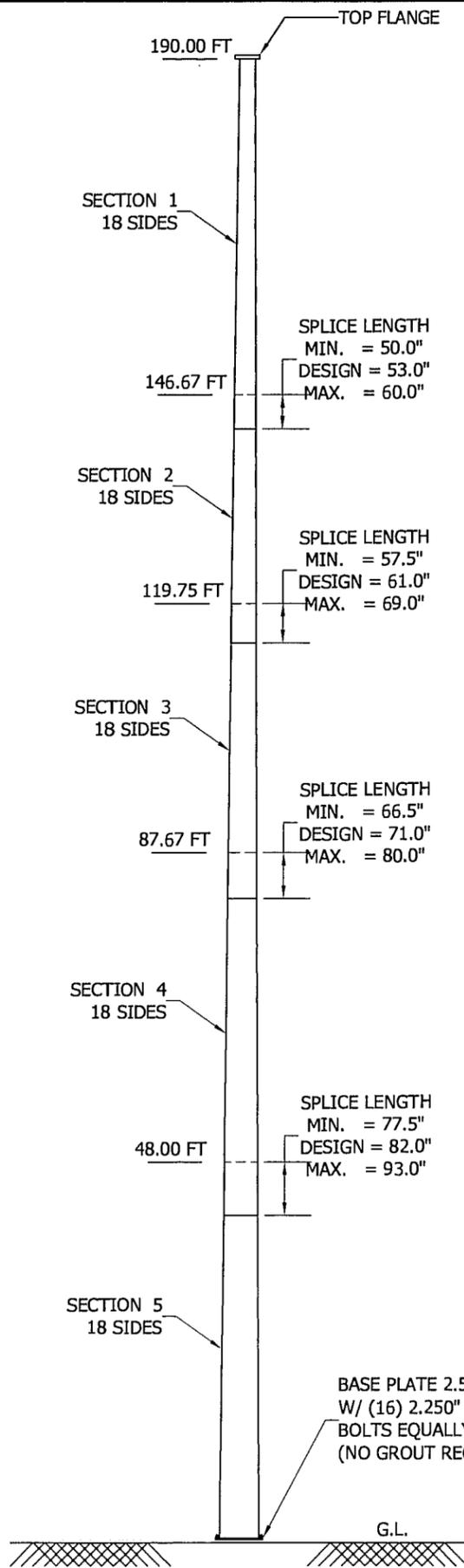
Modifier for tension development = 0.959

Modifier for compression development = 0.558

REQUIRED Ld = MODIFIER \* BASIC Ld \* ACI 318 MODIFIERS, (12 in. min.)

Designed By: DWG  
Date: 26 Nov,13 @ 02:38 PM

Checked By: HA  
Date: 11/26/13



**DESIGN LOAD**

DESIGN WIND LOAD PER ANSI/TIA-222-G USING THE FOLLOWING DESIGN CRITERIA:  
 BASIC WIND SPEED (NO ICE): 90 MPH  
 (115 MPH ULTIMATE WIND SPEED PER ASCE 7-10)  
 BASIC WIND SPEED (W/ ICE): 30 MPH  
 DESIGN ICE THICKNESS: 0.75"  
 STRUCTURE CLASS: II  
 EXPOSURE CATEGORY: C  
 TOPOGRAPHIC CATEGORY: 1  
 EARTHQUAKE SPECTRAL RESPONSE ACCELERATION, S<sub>s</sub>: 0.43  
 THIS POLE IS DESIGNED TO SUPPORT THE FOLLOWING LOADS:

ELEVATION (FT)	ANTENNA LOAD	LINE SIZE
190.0	105 SQ. FT. EPA LOADING (NO ICE) 176.6 SQ. FT. EPA LOADING (W/ ICE)	(18)1-5/8 in.
180.0	105 SQ. FT. EPA LOADING (NO ICE) 176.2 SQ. FT. EPA LOADING (W/ ICE)	(18)1-5/8 in.
170.0	105 SQ. FT. EPA LOADING (NO ICE) 175.8 SQ. FT. EPA LOADING (W/ ICE)	(18)1-5/8 in.
160.0	105 SQ. FT. EPA LOADING (NO ICE) 175.4 SQ. FT. EPA LOADING (W/ ICE)	(18)1-5/8 in.

SEE STRESS ANALYSIS FOR A COMPLETE LISTING OF ALL LOADS ON STRUCTURE.

MAXIMUM ADJUSTED FACTORED REACTIONS	
DOWNLOAD =	102.0 KIPS
SHEAR =	41.0 KIPS
O.T.M =	5942.4 FT-KIPS

GENERAL NOTES

- ROHN PRODUCTS POLE DESIGNS CONFORM TO ANSI/TIA-222-G UNLESS OTHERWISE SPECIFIED UNDER POLE DESIGN LOADING.
- THE DESIGN LOADING CRITERIA INDICATED HAS BEEN PROVIDED TO ROHN. THE DESIGN LOADING CRITERIA HAS BEEN ASSUMED TO BE BASED ON SITE-SPECIFIC DATA IN ACCORDANCE WITH ANSI/TIA-222-G AND MUST BE VERIFIED BY OTHERS PRIOR TO INSTALLATION.
- ANTENNAS AND LINES LISTED IN POLE DESIGN LOADING TABLE ARE PROVIDED BY OTHERS UNLESS OTHERWISE SPECIFIED.
- POLE MEMBER DESIGN DOES NOT INCLUDE STRESSES DUE TO ERECTION SINCE ERECTION EQUIPMENT AND CONDITIONS ARE UNKNOWN. DESIGN ASSUMES COMPETENT AND QUALIFIED PERSONNEL WILL ERECT THE POLE.
- WORK SHALL BE IN ACCORDANCE WITH ANSI/TIA-222-G, "STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES".
- FIELD CONNECTIONS SHALL BE BOLTED. NO FIELD WELDS SHALL BE ALLOWED.
- STRUCTURAL BOLTS SHALL CONFORM TO ASTM A-325, EXCEPT WHERE NOTED
- A NUT LOCKING DEVICE SHALL BE PROVIDED FOR ALL STRUCTURAL BOLTS ON THE POLE.
- STRUCTURAL STEEL AND CONNECTION BOLTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION, IN ACCORDANCE WITH ANSI/TIA-222-G.
- ALL HIGH STRENGTH BOLTS ARE TO BE TIGHTENED TO A "SNUGTIGHT" CONDITION AS DEFINED IN THE JUNE 23, 2000, AISC "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS". NO OTHER MINIMUM BOLT TENSION OR TORQUE VALUES ARE REQUIRED.
- PURCHASER SHALL VERIFY THE INSTALLATION IS IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS FOR OBSTRUCTION MARKING AND LIGHTING.
- TOLERANCE ON POLE STEEL HEIGHT IS EQUAL TO PLUS 1% OR MINUS 1/2%.
- DESIGN ASSUMES THAT, AS A MINIMUM, MAINTENANCE AND INSPECTION WILL BE PERFORMED OVER THE LIFE OF THE STRUCTURE IN ACCORDANCE WITH ANSI/TIA-222-G.
- DESIGN ASSUMES LEVEL GRADE AT POLE SITE.
- FOUNDATIONS SHALL BE DESIGNED TO SUPPORT THE REACTIONS SHOWN FOR THE CONDITIONS EXISTING AT THE SITE.
- DESIGN ASSUMES ALL PANEL ANTENNAS WITH MOUNTING FRAMES ARE MOUNTED SYMMETRICALLY.
- DESIGN ASSUMES ALL TRANSMISSION LINES ARE ROUTED INTERNALLY.
- POLE SHAFT CONFORMS TO ASTM A572 GRADE 65. POLE BASE PLATE AND TOP PLATE STEEL CONFORMS TO ASTM A572 GRADE 50. POLE ANCHOR BOLTS CONFORM TO ASTM A615 GRADE 75.

SECTION SCHEDULE						
SEC.	LENGTH (FT)	DIAMETER (IN)		WALL THICK (IN)	F <sub>y</sub> (KSI)	WEIGHT (KIPS)
		BOT.	TOP			
1	47.75	33.774	24.000	0.1875	65.0	2.987
2	32.00	38.885	32.335	0.2500	65.0	3.282
3	38.00	44.962	37.184	0.3125	65.0	5.616
4	46.50	52.484	42.966	0.3750	65.0	9.582
5	48.00	60.000	50.175	0.4375	65.0	13.920

FOR POLYGONAL POLES, DIAMETER IS MEASURED ACROSS FLATS

FILE NO. 208656			
REVISIONS			
REV.	DESCRIPTION	DWN	CHK APP
 PO BOX 5999 PEORIA, IL 61601-5999 TOLL FREE 800-727-ROHN			
THIS DRAWING IS THE PROPERTY OF ROHN. IT IS NOT TO BE REPRODUCED, COPIED OR TRACED IN WHOLE OR IN PART WITHOUT OUR WRITTEN CONSENT.			
<b>AMERICAN TOWER CORPORATION</b> 190' TAPERED STEEL POLE DESIGN LEITCHFIELD SOUTH 281922, KY			
DWN: DWG	CHK'D: HA	DATE: NOV/26/13	
ENGR: HA		SHEET #:	
PRJ. ENGR: DWG		PRJ. MANG'R:	
DRAWING NO: 208656-01-D1			REV: 0



**EXHIBIT D**  
**COMPETING UTILITIES, CORPORATIONS, OR PERSONS LIST**  
**AND MAP OF LIKE FACILITIES IN VICINITY**

License Search

**Search Results****Specified Search**

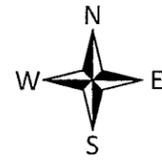
State = **Kentucky**  
 County = **GRAYSON**  
 Radio Service = **CL, CW**  
 Status = **Active**

Matches 1- 11 (of 11 )

**PA** = Pending Application(s)  
**TP** = Termination Pending  
**L** = Lease

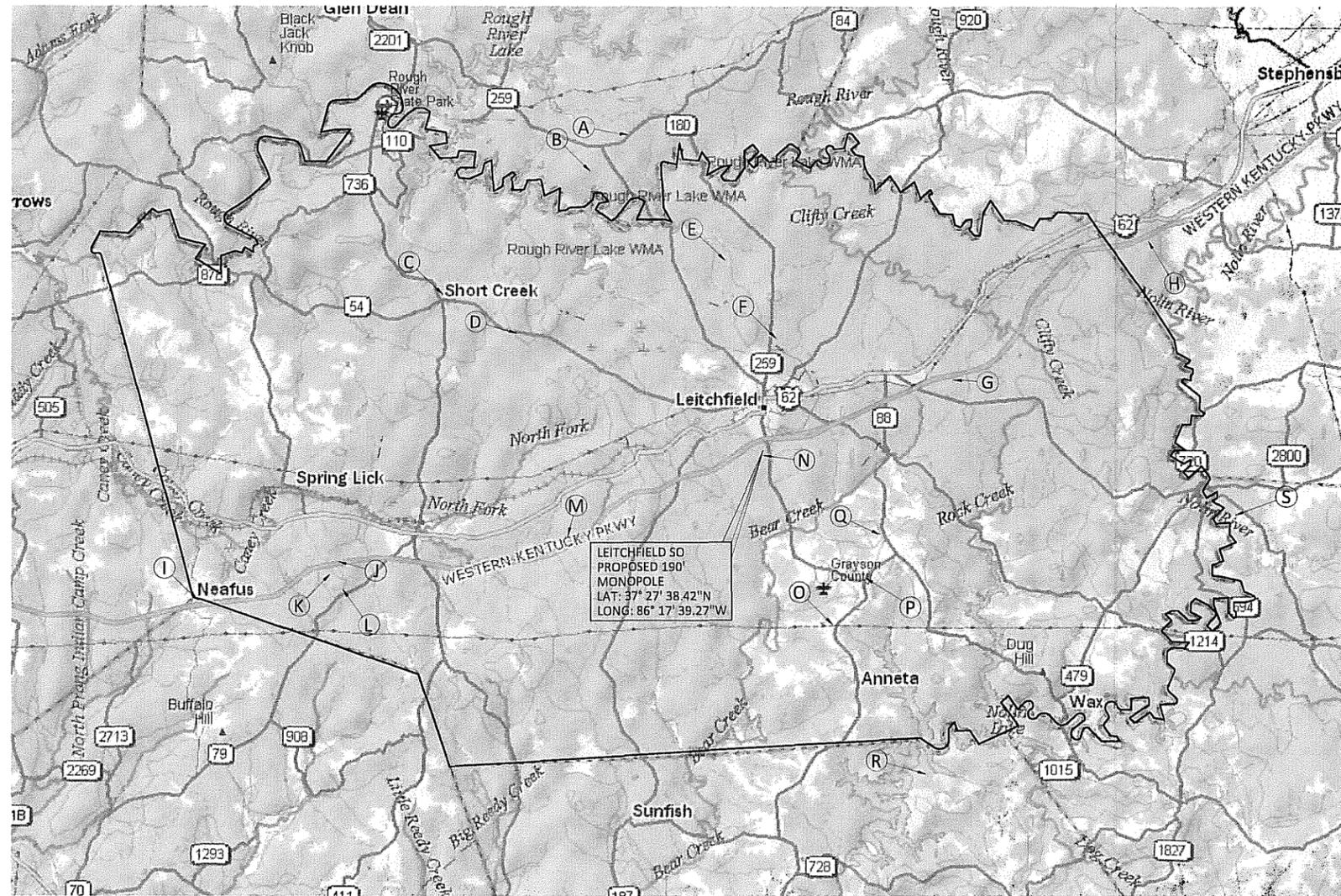
	<b>Call Sign/Lease ID</b>	<b>Name</b>	<b>FRN</b>	<b>Radio Service</b>	<b>Status</b>	<b>Expiration Date</b>
1	<b>PA</b> KNKN748	NEW CINGULAR WIRELESS PCS, LLC	0003291192	CL	Active	10/01/2021
2	<b>PA</b> KNKN867	Kentucky RSA #3 Cellular General Partnership	0001786706	CL	Active	10/01/2020
3	KNLF252	WIRELESSCO, L.P.	0002316545	CW	Active	06/23/2015
4	KNLG209	Powertel Memphis Licenses, Inc.	0001832807	CW	Active	04/28/2017
5	KNLG923	NEW CINGULAR WIRELESS PCS, LLC	0003291192	CW	Active	08/21/2017
6	KNLH397	Powertel Memphis Licenses, Inc.	0001832807	CW	Active	04/28/2017
7	WPOI255	NEW CINGULAR WIRELESS PCS, LLC	0003291192	CW	Active	06/23/2015
8	WPZV471	Bluegrass Wireless LLC	0010698868	CW	Active	06/23/2015
9	WQCS429	Cellco Partnership	0003290673	CW	Active	05/13/2015
10	WQCX684	T-Mobile License LLC	0001565449	CW	Active	06/20/2015
11	<b>PA</b> WQDI528	Cricket License Company, LLC	0018402123	CW	Active	09/06/2015

	<b>Call Sign/Lease ID</b>	<b>Name</b>	<b>FRN</b>	<b>Radio Service</b>	<b>Status</b>	<b>Expiration Date</b>
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# GRAYSON COUNTY, KENTUCKY

## AT&T SITE NAME: LEITCHFIELD SO



NOTE: TOWERS DENOTED ARE ALL KNOWN TOWER SITES REGISTERED WITH THE FEDERAL COMMUNICATIONS COMMISSION IN GRAYSON COUNTY, KENTUCKY.

USGS 7.5 MINUTE QUAD ANGLE: LEITCHFIELD, KY

### TOWER LEGEND

- |  |  |
|--|--|
| (A) FCC REGISTRATION #: 1214128<br>LAT: 37° 36' 06.2\"N<br>LONG: 86° 22' 12.9\"W | (J) FCC REGISTRATION #: 1043431<br>LAT: 37° 24' 42.6\"N<br>LONG: 86° 31' 56.6\"W |
| (B) FCC REGISTRATION #: 1268315<br>LAT: 37° 35' 08.1\"N<br>LONG: 86° 23' 28.8\"W | (K) FCC REGISTRATION #: 1043035<br>LAT: 37° 24' 41.0\"N<br>LONG: 86° 32' 12.0\"W |
| (C) FCC REGISTRATION #: 1244902<br>LAT: 37° 31' 51.2\"N<br>LONG: 86° 28' 23.9\"W | (L) FCC REGISTRATION #: 1044618<br>LAT: 37° 23' 59.0\"N<br>LONG: 86° 31' 47.0\"W |
| (D) FCC REGISTRATION #: 1268314<br>LAT: 37° 30' 50.0\"N<br>LONG: 86° 25' 54.6\"W | (M) FCC REGISTRATION #: 1217214<br>LAT: 37° 25' 24.5\"N<br>LONG: 86° 24' 14.9\"W |
| (E) FCC REGISTRATION #: 1043268<br>LAT: 37° 30' 40.0\"N<br>LONG: 86° 17' 15.0\"W | (N) FCC REGISTRATION #: 1043037<br>LAT: 37° 27' 33.0\"N<br>LONG: 86° 17' 41.0\"W |
| (F) FCC REGISTRATION #: 1258451<br>LAT: 37° 32' 44.1\"N<br>LONG: 86° 18' 58.4\"W | (O) FCC REGISTRATION #: 1281698<br>LAT: 37° 23' 01.9\"N<br>LONG: 86° 15' 21.7\"W |
| (G) FCC REGISTRATION #: 1217206<br>LAT: 37° 29' 36.0\"N<br>LONG: 86° 11' 16.5\"W | (P) FCC REGISTRATION #: 1250554<br>LAT: 37° 24' 17.9\"N<br>LONG: 86° 14' 14.4\"W |
| (H) FCC REGISTRATION #: 1224566<br>LAT: 37° 33' 17.6\"N<br>LONG: 86° 04' 47.0\"W | (Q) FCC REGISTRATION #: 1280487<br>LAT: 37° 25' 27.1\"N<br>LONG: 86° 13' 46.7\"W |
| (I) FCC REGISTRATION #: 1259133<br>LAT: 37° 22' 15.1\"N<br>LONG: 86° 41' 05.9\"W | (R) FCC REGISTRATION #: 1235514<br>LAT: 37° 19' 05.4\"N<br>LONG: 86° 12' 12.3\"W |
|  | (S) FCC REGISTRATION #: 1052138<br>LAT: 37° 25' 58.0\"N<br>LONG: 86° 01' 49.0\"W |

### COUNTY TOWER MAP

REV.	DATE	DESCRIPTION
1	12.17.13	LAT/LONG
2	12.18.13	TOWER TYPE

### SITE INFORMATION:

### LEITCHFIELD SO

397 VICTORY HEIGHTS ROAD  
LEITCHFIELD, KY 42754

### SITE NUMBER:

POD NUMBER: 13-0808

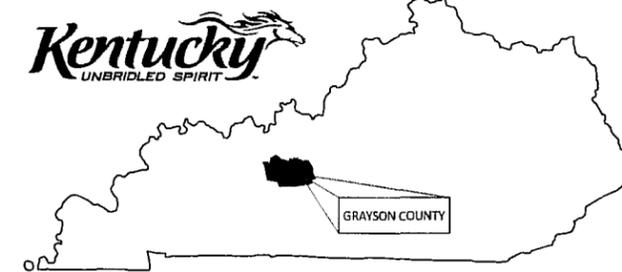
DRAWN BY: SMR  
CHECKED BY: MEP  
DATE: 12.18.13

### SHEET TITLE:

### TOWER GRID MAP

### SHEET NUMBER:

C-1





**EXHIBIT E  
CO-LOCATION REPORT**



January 8, 2014

Public Service Commission  
211 Sower Boulevard  
Frankfort, KY 40602

RE: Alternate Site Analysis Report  
Certificate of Public Convenience and Necessity  
Applicant: AT&T Mobility  
Site Location: 397 Victory Heights Road, Leitchfield, KY 42754  
Site Name: Leitchfield South

Dear Commissioners:

This report is provided to explain the site development process used by the Applicant to identify the site selected for the new wireless communications facility proposed in the accompanying application for a CPCN.

### **AT&T Mobility Site Development Process**

**Step 1: Problem Identification.** AT&T Mobility radio frequency engineers first identified a growing coverage and/or capacity gap in *the area along Highway 259 South of Western Kentucky Parkway in Leitchfield, Kentucky.*

**Step 2: Search Ring.** To help guide the site development team's task of identifying a suitable location for a new wireless communications facility site, AT&T Mobility's radio frequency engineers identified the geographic area where the antenna site must be located in order to close the gap and issued a map (called a Search Ring) that identified the general area in which a new site must be located. In this instance, *the search ring has a radius of .3 miles and is centered on a particular hill that is high in elevation and has an existing guyed tower. A map of the search ring is attached.*

**Step 3: Co-location Review.** The site development team first reviewed the area within the Search Ring for a suitable tall structure for co-location. In this case, there is an existing Bluegrass Cellular Tower in the center of the search ring. Jill Vice, with Bluegrass Cellular, was contacted regarding a possible collocation on the tower. The response was that the

site is planned for future expansion and they cannot accommodate any new collocations (copy of email attached). A one mile radius search outside the search ring for collocation opportunities was conducted and no existing structures were found to be suitable for collocation.

**Step 4: Review of the Area's Zoning Classification.** Once the site development team determined that there are no available existing tall structures which are technically feasible and suitable for co-location, the team next reviewed local zoning requirements to identify parcels located within the search area that might be suitable from a land use perspective to host an antenna site. In this case, the site acquisition agent visited the Property Valuation Assessor's Office in Leitchfield to view a parcel map of the area. They do not have this information on computers and the agent was only able to view large maps of the area and determine what parcels were in the search ring. Copies of the large parcel maps did not copy well so the agent reached out to Sheila Puckett, City Zoning Administrator, and she confirmed to the agent who owned the particular properties that were being considered. The search ring was very small as a result of the requirements of the AT&T Mobility RF Engineers, and, moreover the elevation dropped off considerably further from the center of the search ring. Thus, there were very few feasible options. The search ring is located in Grayson County and there is no zoning classification of property in this unincorporated part of the County.

**Step 5: Preliminary Inspection and Assessment of Suitable Parcels.** Once suitably zoned parcels are identified, the site development team visits the parcels and performs a preliminary inspection. The purpose of the preliminary inspection is: (1) to confirm the availability of sufficient land space for the proposed facility; (2) to identify a specific location for the facility on the parcel; (3) to identify any recognized environmental conditions that would disqualify the parcel from consideration; (4) to identify any construction issues that would disqualify the candidate; and, (5) to assess the potential impact of the facility on neighboring properties. In this case, once the Bluegrass Cellular tower was ruled out, properties within the search ring were identified that would meet the requirements of the construction of a tower. There were three properties that were on a high elevation, consisted of enough property to meet setback requirements, if any, and were constructible. On the hilltop where the search ring was centered, there were only four properties.

**Step 6: Candidate Evaluation and Selection.** After the preliminary site assessments were performed, the site development team ranked the candidates based on compliance with zoning regulations, the availability of ground space, topography, applicable environmental conditions, construction feasibility and the potential impact of the facility on neighboring properties. In this case, three candidates were submitted to AT&T for review. The A Candidate is the Lucas Property. Bridgette Lucas was contacted and she was interested in a proposed lease agreement. Her property was chosen as Candidate A as it is located within the search ring, there is an existing road to the site and the site was cleared. This site has a natural tree buffer on all four sides and sits just South of the Bluegrass Cellular Tower. There is not a home on this parcel. There are homes along Hwy 259 at the access road to the site. The B Candidate is the Stanton Property. Mark Stanton was contacted and was interested in a proposed lease agreement. This site is in the search ring, closer to the freeway, and is just off Victory Heights Road so a long access road would not be necessary. The Stanton home is SW of the site but is

surrounded by trees. However, there is a church just East of the site and the Swift Home is South of the site so the site would be visible from the Swift Home. The C Candidate is the Swift Property. It is behind an outbuilding/garage and within view of the Bluegrass Tower. It does have a natural tree buffer on three sides (West, South and East). It will be in view from the Swift's home, however, this was their choice of location. After submitting all three candidates, AT&T RF chose the Swift Property as their primary candidate and the Lucas Property as a back-up candidate. An aerial map and a road map are attached identifying all three candidates. Again, the approved candidate is a location that the landlords chose.

**Step 7: Leasing and Due Diligence.** Once a suitable candidate was selected, lease negotiations were commenced and site due diligence steps were performed, as described below.

Leasehold Due Diligence:

- A Title Report was obtained and reviewed to ensure that there are no limitations on the landowner's capacity to lease and to address any title issues.
- A site survey was obtained to identify the location of parcel features, boundaries, easements and other encumbrances revealed by the title search.

Engineering Due Diligence:

- Utility access identified.
- Grounding plan designed.
- Geotechnical soil analysis performed to determine foundation requirements.
- Foundations designed to meet the Kentucky Building Code lateral and subjacent support requirements.
- Site plan developed.

Environmental Due Diligence:

A Phase I Environmental Site Assessment ("ESA") investigation was performed to establish the pre-existing types and amounts of contamination at a site, and to establish that the leaseholder is innocent of liability for the costs of performing environmental cleanup work that might arise from pollution or contamination of the site caused by a third party.

In addition to performing a Phase 1 ESA, the site was also evaluated for potential impacts under the *National Environmental Policy Act* (NEPA), submitted to the State Historic Preservation Office for review of potential impacts to historic structures or districts, and submitted to the registered Tribal Historic Preservation Office so that registered Native American nations had the opportunity to review potential impacts on native religious, ceremonial, or cultural resources.

Federal Regulatory Approvals

- Federal Aviation Administration (“FAA”) compliance.
- Federal Communications Commission (“FCC”) compliance.

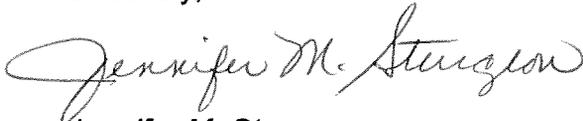
In this case, only four property owners were contacted, Bluegrass Cellular, which denied collocation on their tower, The Swifts, The Stantons and Bridgette Lucas. All three parties were interested in leasing space to AT&T. The Swift property was chosen by AT&T’s RF Department.

**Step 8: Application.** Once a lease is obtained and all site due diligence is completed, AT&T Mobility prepared and filed the accompanying application for a CPCN to construct, maintain, and operate a communications facility.

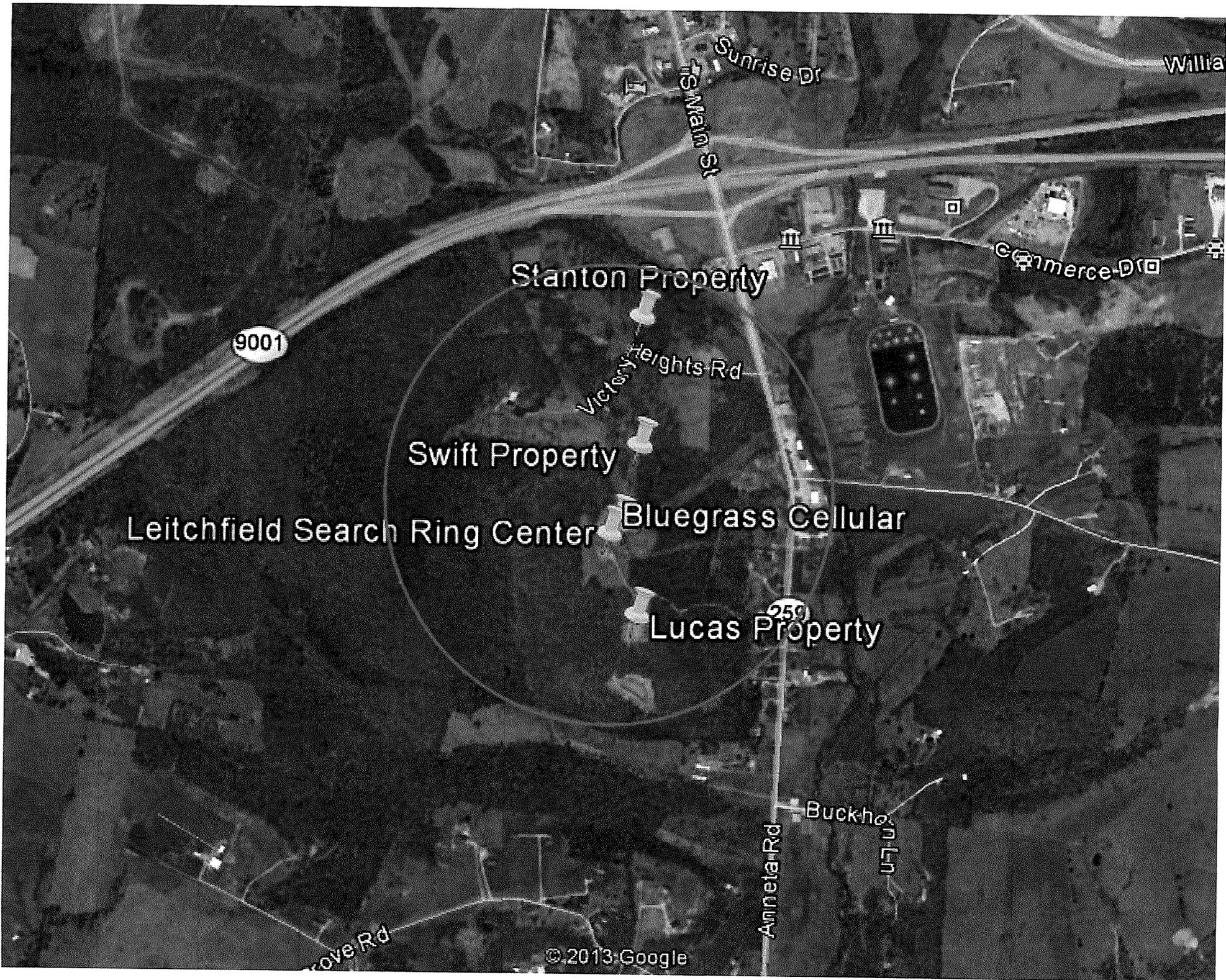
### **Conclusion**

Applicant’s site identification and selection process aims to identify the least intrusive of all the technically feasible parcels in a service need area. In this case, AT&T’s RF Department considered all three available candidates and chose the candidate that would provide optimum coverage for their wireless service. Based on the elevation and natural tree buffer, we believe that a 190’ Monopole at this location would be the least intrusive to neighboring homes.

Sincerely,



*Jennifer M. Sturgeon*  
Site Acquisition Specialist  
FMHC  
2310 Valletta Lane  
Louisville, KY 40205  
502-817-1964



9001

Stanton Property

Swift Property

Leitchfield Search Ring Center

Bluegrass Cellular

Lucas Property

S Main St

Sunrise Dr

Willia

Commerce Dr

Victory Heights Rd

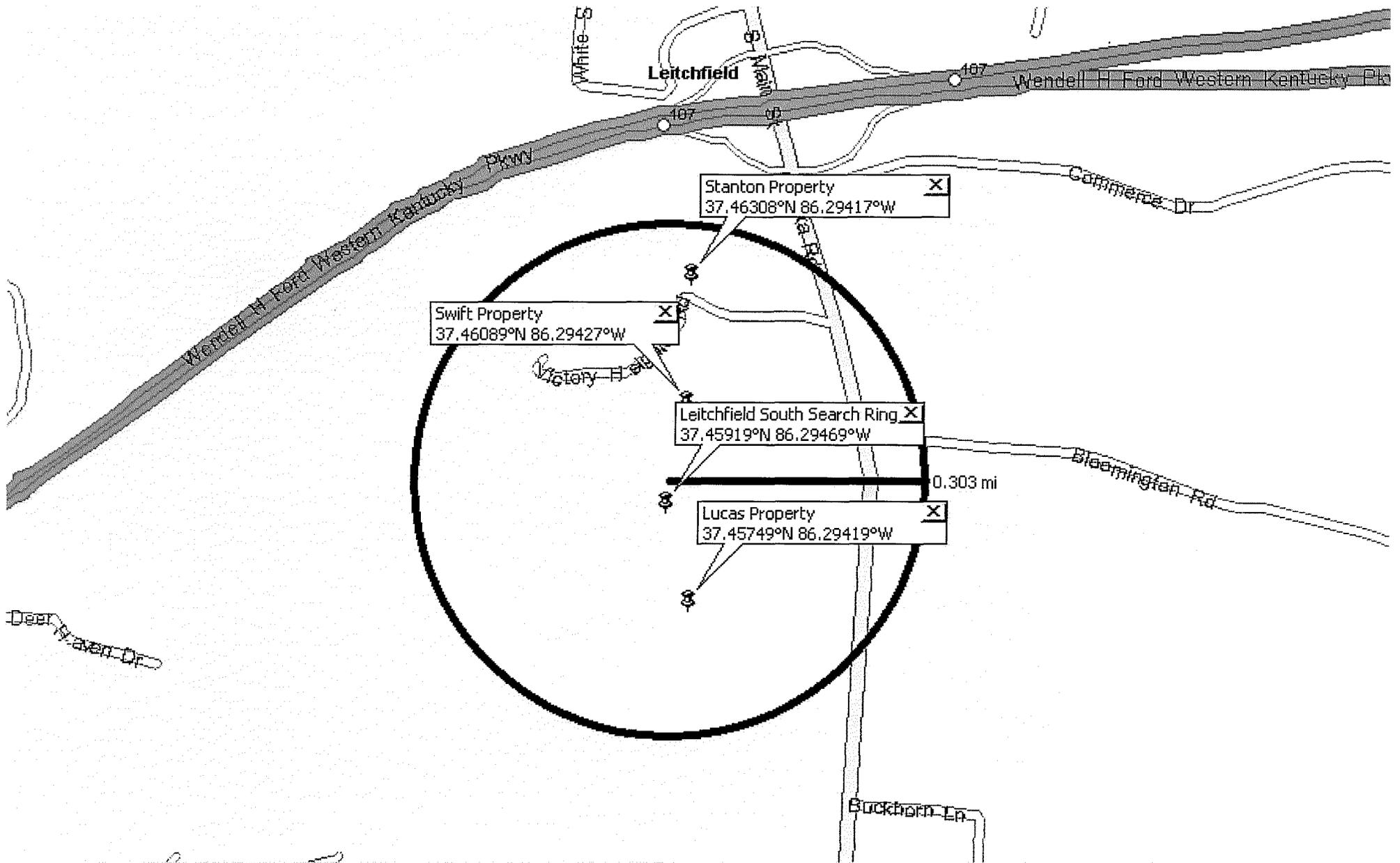
250

Anneta Rd

Buckhorn Ln

grove Rd

© 2013 Google



**From:** Jill Vice [<mailto:jvice@bluegrasscellular.com>]  
**Sent:** Tuesday, January 07, 2014 5:04 PM  
**To:** Jennifer Sturgeon  
**Subject:** FW: So. Leitchfield Site

*Jennifer -*

*This site is planned for future expansion; we cannot accommodate any new colocations at this time.*

*Thanks.  
Jill*

**Jill Vice** | Senior Lease & Co-location Administrator  
**Bluegrass Cellular Inc.** | 2902 Ring Rd. | Elizabethtown, KY 42701  
Email: [jvice@bluegrasscellular.com](mailto:jvice@bluegrasscellular.com)  
Office: 270.765.6361 x3015 | Fax: 270.737.0580  
Cell:



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**EXHIBIT F**  
**FAA**

\*\*\*\*\*  
\* Federal Airways & Airspace \*  
\* Summary Report: New Construction \*  
\* Antenna Structure \*  
\*\*\*\*\*

Airspace User: David Duncan

File: LEITCHFIELD-SOUTH

Location: Leitchfield, KY  
Distance: 1.4 Statute Miles  
Direction: 2° (true bearing)

Latitude: 37°-27'-38.42" Longitude: 86°-17'-39.27"

SITE ELEVATION AMSL.....712 ft.  
STRUCTURE HEIGHT.....199 ft.  
OVERALL HEIGHT AMSL.....911 ft.

NOTICE CRITERIA

FAR 77.9(a): NNR (DNE 200 ft AGL)  
FAR 77.9(b): NNR (DNE Notice Slope)  
FAR 77.9(c): NNR (Not a Traverse Way)  
FAR 77.9: NNR FAR 77.9 IFR Straight-In Notice Criteria for M20  
FAR 77.9: NNR (No Expected TERPS® impact 2I3)  
FAR 77.9(d): NNR (Off Airport Construction)

NR = Notice Required  
NNR = Notice Not Required  
PNR = Possible Notice Required (depends upon actual IFR procedure)  
For new construction review Air Navigation Facilities at bottom  
of this report.

Notice to the FAA is not required at the analyzed location and height for  
slope, height or Straight-In procedures. Please review the 'Air Navigation'  
section for notice requirements for offset IFR procedures and EMI.

OBSTRUCTION STANDARDS

FAR 77.17(a)(1): DNE 499 ft AGL  
FAR 77.17(a)(2): DNE - Airport Surface  
FAR 77.19(a): DNE - Horizontal Surface  
FAR 77.19(b): DNE - Conical Surface  
FAR 77.19(c): DNE - Primary Surface  
FAR 77.19(d): DNE - Approach Surface  
FAR 77.19(e): DNE - Transitional Surface

VFR TRAFFIC PATTERN AIRSPACE FOR: M20: GRAYSON COUNTY

Type: A RD: 22809.9 RE: 760  
FAR 77.17(a)(1): DNE  
FAR 77.17(a)(2): DNE - Height No Greater Than 200 feet AGL.  
VFR Horizontal Surface: DNE  
VFR Conical Surface: DNE  
VFR Approach Slope: DNE  
VFR Transitional Slope: DNE

VFR TRAFFIC PATTERN AIRSPACE FOR: 2I3: ROUGH RIVER STATE PARK

Type: A RD: 81585.01 RE: 577

FAR 77.17(a) (1): DNE  
 FAR 77.17(a) (2): Does Not Apply.  
 VFR Horizontal Surface: DNE  
 VFR Conical Surface: DNE  
 VFR Approach Slope: DNE  
 VFR Transitional Slope: DNE

TERPS DEPARTURE PROCEDURE (FAA Order 8260.3, Volume 4)  
 FAR 77.17(a) (3) Departure Surface Criteria (40:1)  
 DNE Departure Surface

MINIMUM OBSTACLE CLEARANCE ALTITUDE (MOCA)  
 FAR 77.17(a) (4) MOCA Altitude Enroute Criteria  
 The Maximum Height Permitted is 1700 ft AMSL

PRIVATE LANDING FACILITIES

FACIL	BEARING	RANGE	DELTA ARP	FAA
IDENT TYP NAME	To FACIL	IN NM	ELEVATION	IFR
56KY HEL TWIN LAKES RGNL MEDICAL CENT	24.56	.74	+254	
Possible Impact to Private landing Facility Exceeds Notice Standards by: 85 ft (Medical Heliport) Notice to actual facility is recommended				
66KY AIR MC GREW	56.45	5.08	+191	
No Impact to VFR Transitional Surface. Below surface height of 408 ft above ARP.				

AIR NAVIGATION ELECTRONIC FACILITIES

APCH	FAC	ST	DIST	DELTA	GRND					
BEAR	IDNT	TYPE	AT	FREQ	VECTOR	(ft)	ELEVA	ST	LOCATION	ANGLE
	MYS	VOR	I	108.2	5.2	158464	+121	KY	MYSTIC	.04
	FTK	VOR/DME	I	109.6	29.7	187359	+177	KY	FORT KNOX	.05
	EWO	VOR/DME	I	110.8	70.65	189811	-49	KY	NEW HOPE	-.01
	BWG	VORTAC	R	117.9	192.6	198498	+346	KY	BOWLING GREEN	.10
	LVX	RADAR WXL	Y		28.3	213036	+78	KY	FORT KNOX	.02

FCC AM PROOF-OF-PERFORMANCE

NOT REQUIRED: Structure is not near a FCC licensed AM radio station Proof-of-Performance is not required. Please review AM Station Report for details.

Nearest AM Station: WMTL @ 5641 meters.

Airspace® Summary Version 13.9.332

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 Copyright © 1989 - 2013

10-29-2013  
 14:21:15



**EXHIBIT G**  
**KENTUCKY AIRPORT ZONING COMMISSION**

**From:** [Houlihan, John \(KYTC\)](#)  
**To:** [Lottie Thompson](#)  
**Subject:** RE: KAZC Filings for 4 sites, Allens Tower, KY Oaks, Mall, Leitchfield South& Millers Mill  
**Date:** Thursday, October 31, 2013 8:01:40 AM

---

The above subject does not require a permit from the Kentucky Airport Zoning Commission. The antennas do not exceed any of the following criteria:

**602 KAR 50:030. Jurisdiction of the Kentucky Airport Zoning Commission.**

RELATES TO: KRS 183.861, 183.865, 183.867, 183.870

STATUTORY AUTHORITY: KRS 183.861

NECESSITY, FUNCTION, AND CONFORMITY: KRS 183.867 specifies that the commission has jurisdiction over zoning for all public use and military airports. This administrative regulation defines the areas over which the Kentucky Airport Zoning Commission has jurisdiction for the purpose of zoning in accordance with KRS Chapter 183 and specifics when the owner or person who has control over a structure which encroaches on the jurisdiction of the Kentucky Airport Zoning Commission shall apply for a permit.

Section 1. The commission has zoning jurisdiction over that airspace over and around the public use and military airports within the Commonwealth which lies above the imaginary surface that extends outward and upward at one (1) of the following slopes:

(1) 100 to one (1) for a horizontal distance of 20,000 feet from the nearest point of the nearest runway of each public use and military airport with at least one (1) runway 3,200 feet or more in length; or

(2) Fifty (50) to one (1) for a horizontal distance of 10,000 feet from the nearest point of the nearest runway of each public use and military airport with its longest runway less than 3,200 feet in actual length.

Section 2. The commission has zoning jurisdiction over the use of land and structures within public use airports within the state.

Section 3. The commission has jurisdiction from the ground upward within the limits of the primary and approach surfaces of each public use and military airport as depicted on Airport Zoning Maps approved by the Kentucky Airport Zoning Commission.

Section 4. The commission has jurisdiction over the airspace of the Commonwealth that exceeds 200 feet in height above ground level.

Section 5. The owner or person who has control over a structure which penetrates or will penetrate the airspace over which the commission has jurisdiction shall apply for a permit from the commission in accordance with 602 KAR 50:090. (KAV-9-1; 1 Ky.R. 807; eff. 5-14-75; Am. 2 Ky.R. 306; eff. 3-10-76; 5 Ky.R. 599; eff. 3-7-79; 10 Ky.R. 445; eff. 1-4-84; 14 Ky.R. 267; eff. 9-10-87; 19 Ky.R. 800; eff. 11-4-92; 27 Ky.R. 2228; 2774; eff. 4-9-2001.)

Please keep this email for your records. Thank you.

Kentucky Airport Zoning Commission (KAZC)

John Houlihan, Administrator

90 Airport Road, Building 400

Frankfort, KY 40601

Direct Line 502-564-0310, Cell 502-330-3955, Office 502-564-4480, Fax 502-564-7953

KAZC webpage: <http://transportation.ky.gov/Aviation/Pages/Zoning-Commission.aspx>

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**From:** Lottie Thompson [<mailto:lthompson@fmhc.com>]

**Sent:** Wednesday, October 30, 2013 5:55 PM

**To:** Houlihan, John (KYTC)

**Subject:** FW: KAZC Filings for 4 sites, Allens Tower, KY Oaks, Mall, Leitchfield South& Millers Mill

Please see attached four KAZC filing request for sites that did not require FAA/FCC filing.

Thanks,

Lottie Thompson

FMHC Corporation

1700 Sherwin Ave.

Des Plaines, IL 60018

773.380.3871 office

773.341.6071 Cell

[ltompson@fmhc.com](mailto:ltompson@fmhc.com)

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**EXHIBIT H  
GEOTECHNICAL REPORT**



FDH Engineering, Inc., 6521 Meriden Drive, Raleigh, NC 27616, Ph: 919.755.1012, Fax: 919.755.1031

## Geotechnical Evaluation of Subsurface Conditions

### Monopole Tower

Report Prepared for  
**FMHC Corporation**

**Site Name: Leitchfield South**  
**Site ID: 141700-A**

397 Victory Heights Road - Leitchfield, KY 42754  
Lat: 37° 27' 38.42"  
Lon: -86° 17' 39.27"

**FDH Project Number 1305541600**  
**Revision 1**

Prepared by:

*Cedric D. Fairbanks*

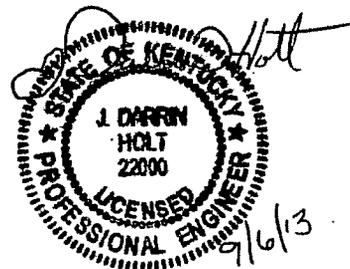
*J. Darrin Holt*

Cedric D. Fairbanks, PhD, P.E.  
Senior Geotechnical Engineer

J. Darrin Holt, PhD, P.E.  
Managing Principal

**FDH Engineering, Inc.**  
6521 Meriden Drive  
Raleigh, NC 27616  
(919)755-1012  
info@fdh-inc.com

09/06/2013





**EXECUTIVE SUMMARY**

**Project Location:** 397 Victory Heights Road – Leitchfield, KY 42754  
**Structure Type:** Monopole  
**Site ID/Number:** 141700-A  
**Number of Borings:** One (1)  
**Depth of Borings:** B-1 to 14.0 ft

**INTRODUCTION**

FDH Engineering, Inc. understands that a monopole telecommunication tower with a proposed height of 190-ft tall will be erected at the aforementioned project site. The authorized subsurface investigation has been completed to evaluate the existing subsurface conditions and their effect on the proposed construction and site development.

**SITE INVESTIGATIONS**

The project site is slightly sloping to the east to southeast and exhibits a topographic variation of less than 10.0 ft. Currently, the footprint area of the proposed monopole tower is vacant and covered with grass and sparse bushes. The site drainage is surface runoff.

Subsurface conditions were evaluated by obtaining one test boring near the tower’s foundation elements base as shown on Figure 1. The boring was sampled at selected intervals using standard penetration test procedures designated in ASTM D-1586. The soil samples were transported to our soil lab and classified according to ASTM D-2487. Additionally, unconfined compressive strength tests according to ASTM D-2166 were conducted on selected cohesive soil samples.

The soil samples will be retained in our laboratory for a period of forty-five (45) days, after which, they will be discarded unless other instructions are received as to their disposition.

**SUBSURFACE CONDITIONS**

Based on the field boring record and laboratory test results, the subsurface conditions on site can be generalized using the following strata descriptions:

<b>Strata #</b>	<b>Approx. Depth (ft)</b>	<b>General Description</b>
I	0.0 – 3.5	CL - Very Stiff Lean Clay with sand
II	3.5 – 14.0	PWR – Very Dense Partially Weathered Rock (Probable Sandstone)

**GROUNDWATER**

Groundwater was not encountered in the soil boring B-1 during the time of drilling. However, regional groundwater levels will fluctuate with seasonal and climatic changes and may be different at



other times. We recommend that FDH be immediately notified if a noticeable change in groundwater occurs from the depths mentioned in this report.

## FOUNDATION RECOMMENDATIONS

The following recommendations are made based on our review of the attached test boring data and laboratory results, along with our past experience with similar projects and subsurface conditions. Ultimate soil strength design parameters are presented on the attached Table 1. The values in this table can be used to evaluate the lateral capacity of the soil supporting this foundation. Based on the TIA Standard (TIA-222-G), dated August 2005, the recommended design frost penetration depth to be used for Grayson County, KY is 20-inches (1.7 ft).

FDH was not provided with the required foundation capacities at the time of this report. For monopole towers, we anticipate the planned tower foundation will be subjected to relatively high axial loads and bending moments. Based on our past experience with similar projects and subsurface conditions, we recommend that Drilled Shaft (Caisson) and Pad & Pier type foundation be used as the tower foundation. For these foundations, general soil strength design recommendations are given in this report that can be used by the Engineer of Record to determine the foundation sizes once the required foundation capacities are known.

### Drilled Shaft (Caisson) Foundation

Should caisson foundations be used, we recommend the caissons be reinforced with steel to resist and transfer lateral and axial loads. Skin friction and bearing at the tip of the caisson can be used to determine the compressive capacity of the foundation. For these cases, we recommend the following values be used:

- **Ultimate Compressive SKIN FRICTION vs. DEPTH** = shown in Figure 2. This figure display ultimate values and an appropriate factor of safety should be used.
- **Net Ultimate Bearing Capacity vs. DEPTH** = shown in Figure 3. This figure display ultimate values and an appropriate factor of safety should be used.

Based on the subsurface soil conditions, excavation for the caisson should be possible using a large, truck-mounted, hydraulic-advanced drill rig. All debris, loose or disturbed soil should be removed from the excavation prior to placing reinforced steel and/or concrete. Reinforcing steel and/or concrete should be placed immediately upon completion of the excavation.

Drilling fluid or casing could be used to assist in keeping the drilled hole open. If casing is used, we recommend it be removed from the excavation as concrete is being placed. Continuous vibration or other approved methods should be used during casing withdrawal to reduce the potential for void-space formation within the concrete. If water is present during concrete placement and/or drilling fluids are used to maintain hole stability, concrete should be pumped or otherwise discharged to the bottom of the hole via a hose or tremie pipe. The end of the hose or tremie pipe must remain below the top surface of any water, drilling fluid and the in-place concrete at all times. Additionally, concrete should be consolidated using vibration methods over the entire length and width of the caisson and the consolidation should be performed only after these fluids are removed and to the extent possible.



Pad & Pier Foundation

Should a pad & pier foundations be used, we recommend the pad & pier be reinforced with steel to resist and transfer lateral and axial loads, as well as prevent cracking and shrinkage due to temperature and moisture variations. Based on the subgrade conditions and frost penetration depth of the project site, we recommend the bottom of the pad foundation bears at a depth deeper than 1.7 ft. The tower's foundation capacity can be determined using the soil's bearing capacity, passive pressure resistance, and a sliding friction factor. For these calculations we recommend the following:

- **Net Ultimate Bearing Capacity for PAD & PIER Foundation:**

Pad Dimensions (ft)	Pad Bearing Depth (ft)	Net Ultimate Bearing Capacity (psf)	Sliding Friction Factor
4.0 × 4.0	3.0	14,000	0.40
	4.0	30,000	
	5.0	30,000	
6.0 × 6.0	3.0	13,500	0.40
	4.0	30,000	
	5.0	30,000	
8.0 × 8.0	3.0	13,000	0.40
	4.0	30,000	
	5.0	30,000	

These values are ultimate values and an appropriate factor of safety should be used.

- **Ultimate Passive Pressure vs. Depth:** Shown in Figure 5. This figure contains ultimate values and an appropriate factor of safety should be used. These values have been reduced for frost penetration to a depth of 1.7 ft.

The pad should bear on natural soils or on controlled structural fill placed on acceptable natural soils. The site should be stripped to suitable depths to remove any existing grass, bushes, top soil and miscellaneous fill material. Select fill used to elevate the grade and backfill the excavation should consist of clean soils without deleterious inclusions and with maximum 3.0-inch particle size. On-site soils identified as sandy lean clay are acceptable for use as structural fill if the soils are maintained normally at optimum moisture content. Some of these soils may require aeration and drying prior to re-use as structural fill. The select fill material should be placed in maximum of 8.0 inches loose lifts and compacted to a minimum of 95 percent of the maximum dry density as per ASTM D-698. The moisture content should be within -2 to +2 % of optimum moisture.

The pad & pier foundation should be protected from freezing if built during the winter or subject to freezing temperatures after construction. Groundwater was not encountered within the recommended bearing depth at the project site. However, positive drainage should be provided to prevent rainwater collection in foundation excavations or on subgrades of the construction area either during or after construction. Undercut or excavated areas should be sloped toward a corner to facilitate removal of any collected rainwater or surface runoff.



### Construction Inspection

We recommend that the foundation excavation and fill placement process be monitored by a geotechnical engineer or representative thereof. Geological material variances may occur at project site. Therefore, the soil excavations should be inspected under the supervision of a geotechnical engineer or representative thereof to confirm that the bearing soils are similar to those encountered in our field exploration and that the subgrade has been properly prepared. The geotechnical engineer should be immediately notified should any subsoil conditions be uncovered that will alter the conclusions and recommendations contained in this report. Further investigation and supplemental recommendations may be required if such a condition is encountered.

Samples of the subgrade soil and structural fill material should be obtained prior to compaction operations for laboratory moisture/density testing (Proctor Tests). The tests will then provide a basis for evaluating the in-place density requirements during compaction operations. A qualified soil technician should perform sufficient in-place density tests during the filling operations to verify that proper levels of compaction are being attained.

Prior to placement of concrete, the foundation excavation should be inspected to verify that the excavation is to the proper depth and reinforcing steel is placed as recommended. Concrete cylinders should be made for 7-day and 28-day breaks and the concrete compressive strength should reach the required strengths after curing for designated days.

### **LIMITATIONS**

All opinions and conclusions are considered accurate to a reasonable degree of engineering certainty based upon the evidence available at the time of this report. All opinions and conclusions are subject to revision based upon receipt of new or additional/updated information. All services are provided exercising a level of care and diligence equivalent to the standard and care of our profession. No other warranty or guarantee, expressed or implied, is offered. Our services are confidential in nature and we will not release this report to any other party without the client's consent. The use of this engineering work is limited to the express purpose for which it was commissioned and it may not be reused, copied, or distributed for any other purpose without the written consent of FDH Engineering, Inc.



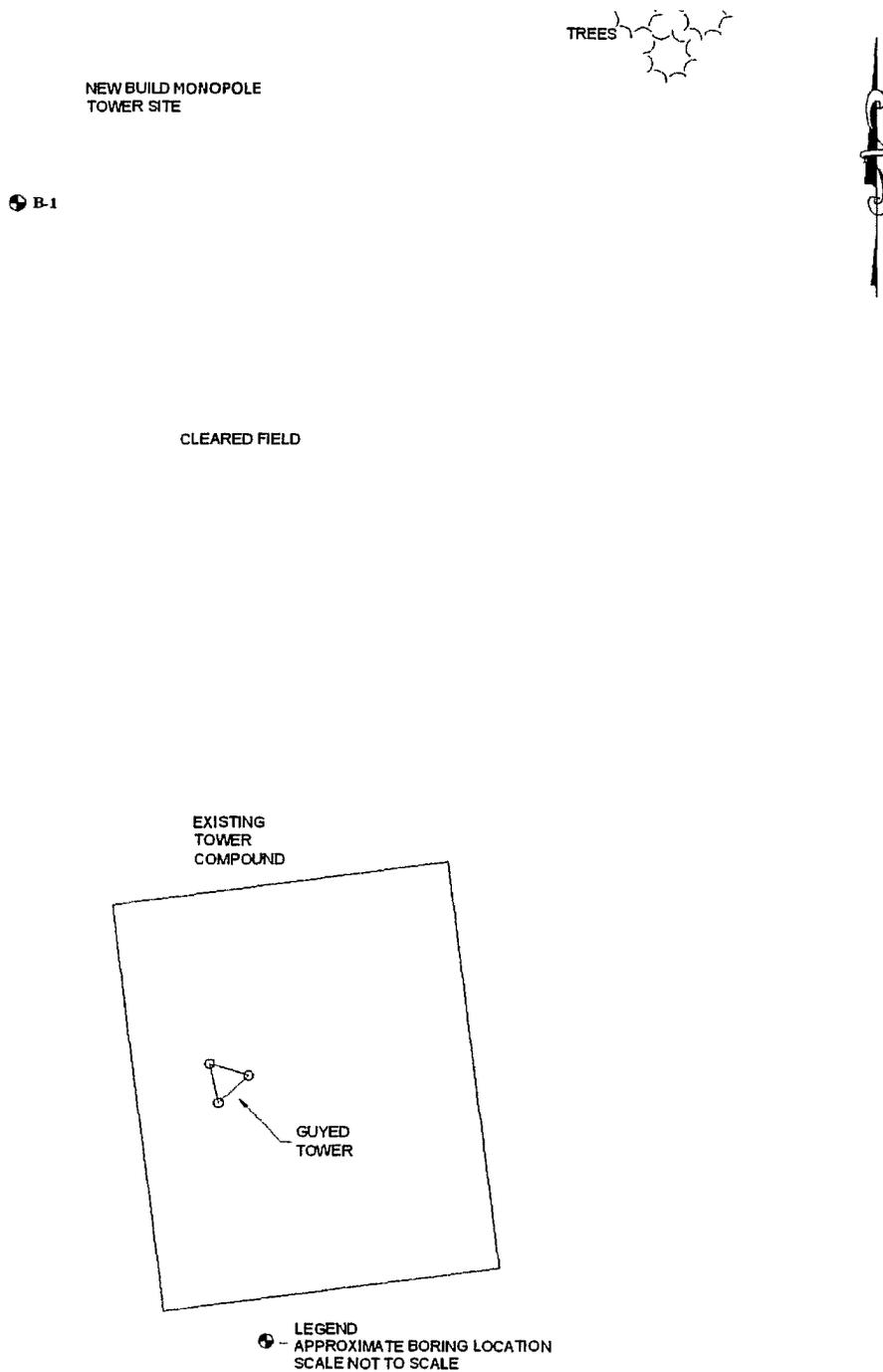
**Table 1**  
**ULTIMATE SOIL STRENGTH PARAMETERS**

**Leitchfield South**  
**Site ID: 141700-A**

Boring #	Depth (ft)	Unified Soil Classification	Moist Unit Weight (pcf)	Friction Angle (degrees)	Cohesion (psf)
B-1	0.0 – 3.5	CL	115	0	2000
	3.5 – 14.0	PWR	135	45	0



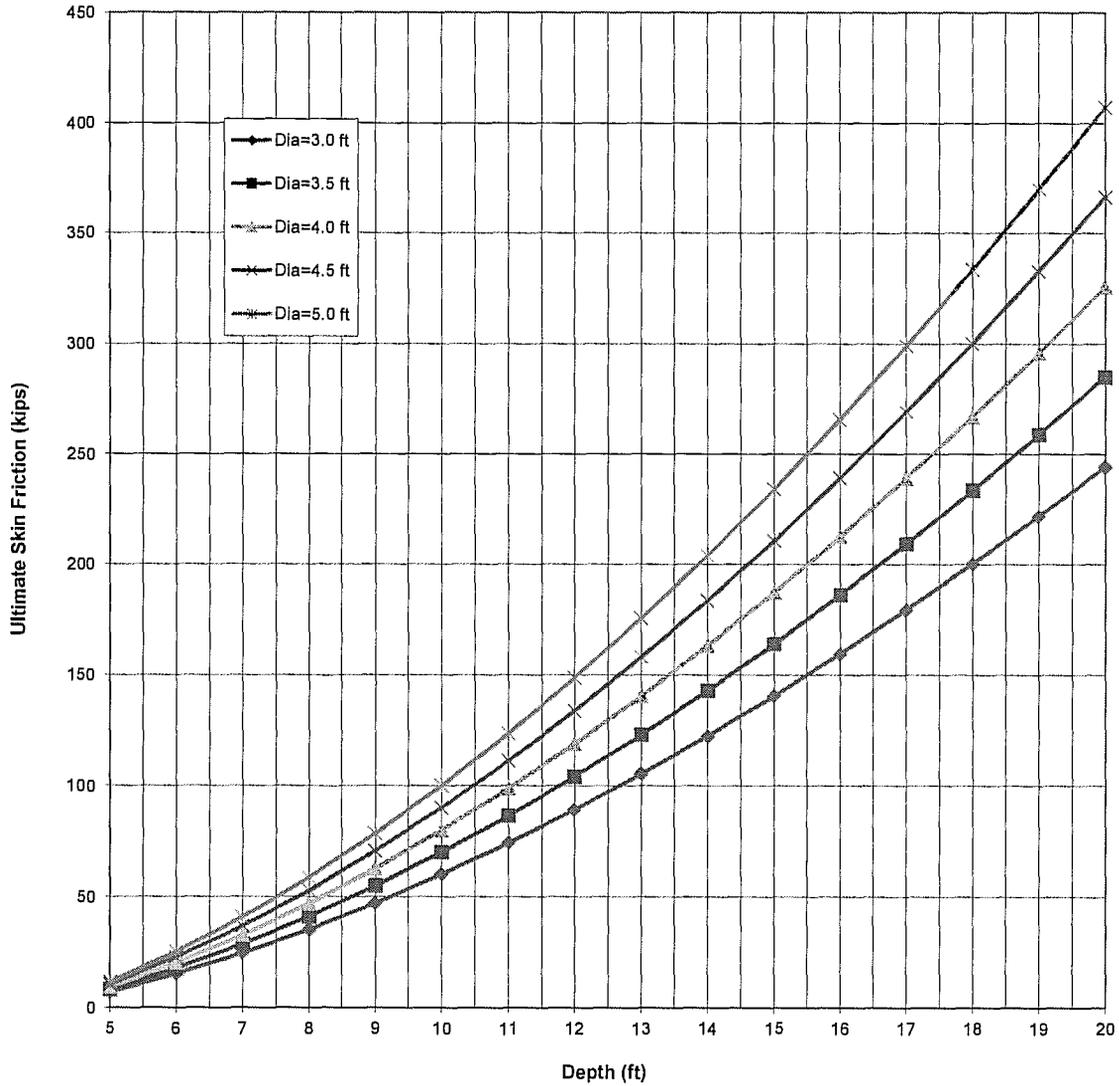
# FIGURE 1: Site Plan – 397 Victory Heights Road - Leitchfield, KY 42754





**FIGURE 2: Ultimate Skin Friction vs. Depth**  
Soil Borling B-1, 3.0 ft to 5.0 ft Diameter Calssons

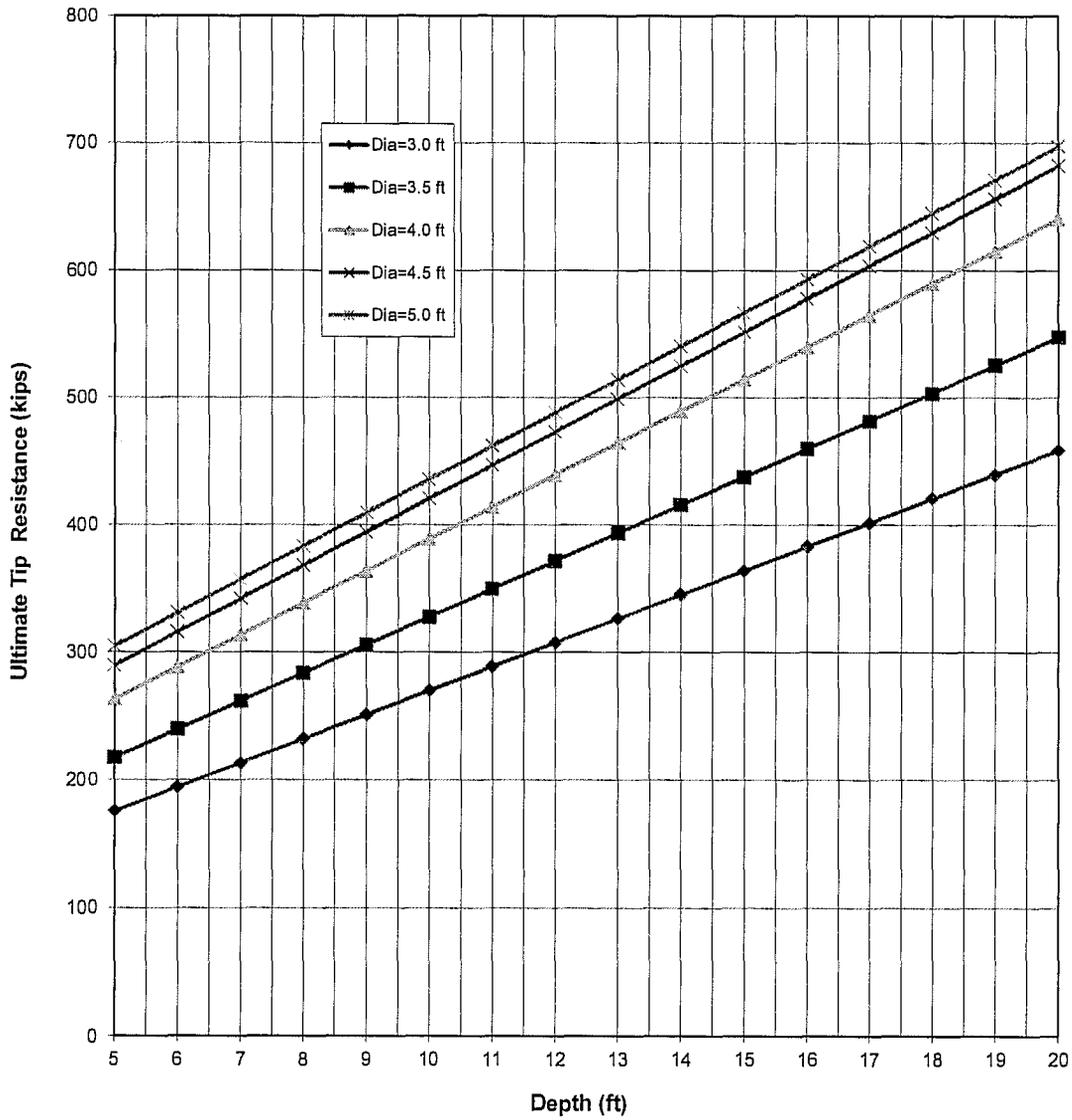
Ignore the top 4.0 ft for skin friction  
An appropriate factor of safety should be used with this figure





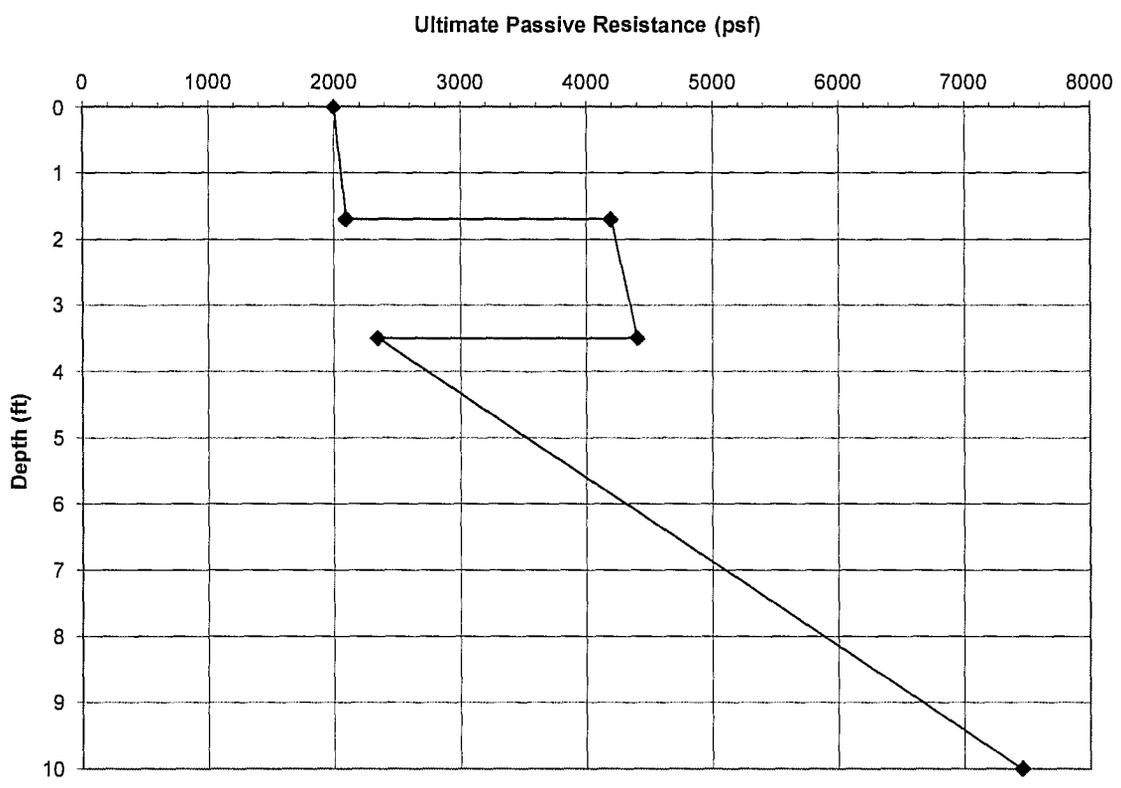
**FIGURE 3: Ultimate Tip Resistance vs. Depth**  
**Soil Boring B-1, 3.0 ft to 5.0 ft Diameter Caissons**

An appropriate factor of safety should be used with this figure





**FIGURE 4: Ultimate Passive Resistance vs. Depth  
Soil Boring B-1**







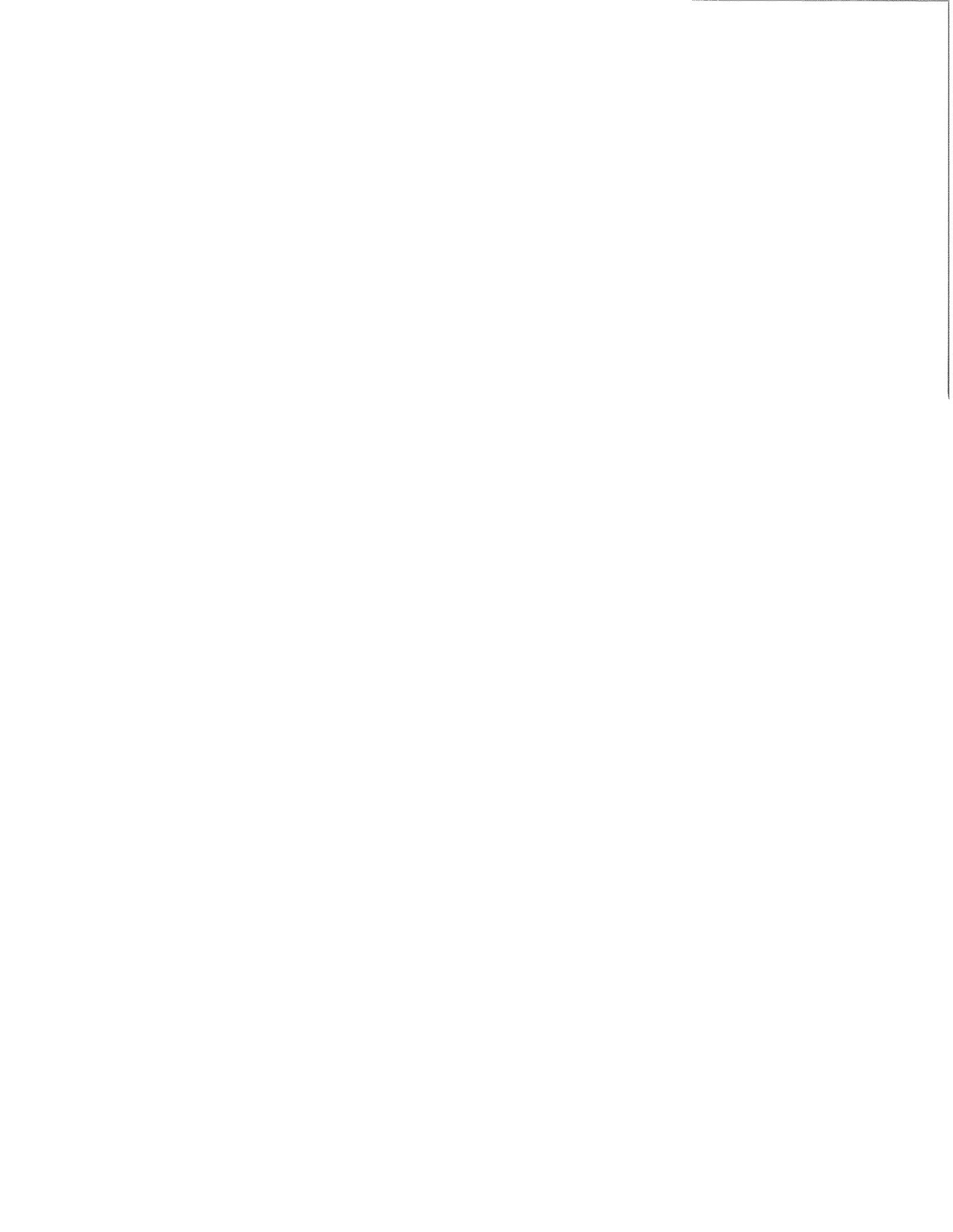
**EXHIBIT I  
DIRECTIONS TO WCF SITE**

### Driving Directions to Proposed Tower Site:

1. Beginning at the offices of the Grayson County Judge Executive, located, at 10 Public Square, Leitchfield, KY, head southwest towards the Public Square.
2. At the traffic circle, stay on Public Square until continuing onto South Main Street. After reaching South Main Street, travel 1.0 mile.
3. Continue onto KY-259 South / Anneta Road and travel 0.2 miles.
4. Turn right onto Victory Heights Road and travel 0.3 miles. The destination is 397 Victory Heights Road, Leitchfield, Kentucky and it will be on the left.
5. site coordinates are
  - a. 37 deg 27 min 38.42 sec N
  - b. 86 deg 17 min 39.27 sec W



Prepared by:  
Aaron L. Roof  
Pike Legal Group PLLC  
1578 Highway 44 East, Suite 6  
PO Box 369  
Shepherdsville, KY 40165-0369  
Telephone: 502-955-4400 or 800-516-4293



**EXHIBIT J**  
**COPY OF REAL ESTATE AGREEMENT**

mailed  
TO  
FMHC

425 / 496

53.00

Prepared by  
Jennifer M. Sturgeon  
FMHC Corporation  
2310 Valletta Lane  
Louisville, KY 40205

*Jennifer M. Sturgeon*

Rec'd 17.00 + 12  
Ex. Pg. 12 = 36.00  
Date 11-7-2013

Return to:  
Suite 13-F West Tower  
575 Morosgo Drive  
Atlanta, GA 30324  
Attn: Network Real Estate Administration

Re: Cell Site #KYEVU3354; Cell Site Name: Leitchfield South  
Fixed Asset #10153963  
State: Kentucky  
County: Grayson

**MEMORANDUM  
OF  
LEASE**

This Memorandum of Lease is entered into on this 35<sup>th</sup> day of July, 2013, by and between Herbert R. Swift and Patsy F. Swift as Trustees of The Herbert R. and Patsy F. Swift Trust U.T.D. Jan. 25, 2002, having a mailing address of 397 Victory Heights Drive, Leitchfield, KY 42754 (hereinafter referred to as "**Landlord**") and New Cingular Wireless PCS, LLC, a Delaware limited liability company, having a mailing address of Suite 13-F West Tower, 575 Morosgo Drive, Atlanta, GA 30324 (hereinafter referred to as "**Tenant**").

1. Landlord and Tenant entered into a certain Option and Lease Agreement ("**Agreement**") on the 35<sup>th</sup> day of July, 2013, for the purpose of installing, operating and maintaining a communications facility and other improvements. All of the foregoing is set forth in the Agreement.
2. The initial lease term will be five (5) years commencing on the effective date of written notification by Tenant to Landlord of Tenant's exercise of its option, with four (4) successive five (5) year options to renew.
3. The portion of the land being leased to Tenant and associated easements are described in **Exhibit 1** annexed hereto.
4. This Memorandum of Lease is not intended to amend or modify, and shall not be deemed or construed as amending or modifying, any of the terms, conditions or provisions of the Agreement, all of which are hereby ratified and affirmed. In the event of a conflict between the provisions of this Memorandum of Lease and the provisions of the Agreement, the provisions of the Agreement shall control. The Agreement shall be binding upon and inure to

the benefit of the parties and their respective heirs, successors, and assigns, subject to the provisions of the Agreement.

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

**"LANDLORD"**

Herbert R. Swift and Patsy F. Swift as Trustees  
of The Herbert R. and Patsy F. Swift Trust  
U.T.D. Jan. 25, 2002

By: Herbert R. Swift Co. Tr.  
Print Name: Herbert R. Swift, Trustee  
Its: \_\_\_\_\_  
Date: 6-7-13

By: Patsy F. Swift Co. Tr.  
Print Name: Patsy F. Swift, Trustee  
Its: \_\_\_\_\_  
Date: 6-7-13

**"TENANT"**

New Cingular Wireless PCS, LLC,  
a Delaware limited liability company  
By: AT&T Mobility Corporation  
Its: Manager

By: [Signature]  
Print Name: Daniel Toth  
Its: Manager Real Estate and Construction  
Date: 7/25/13

[ACKNOWLEDGMENTS APPEAR ON THE NEXT PAGE]

**TENANT ACKNOWLEDGMENT**

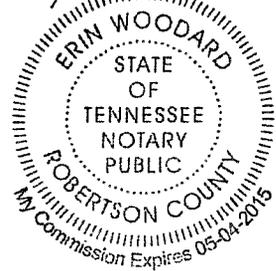
STATE OF TENNESSEE)

) ss:

COUNTY OF WILLIAMSON)

On the 25<sup>th</sup> day of July, 2013, before me personally appeared Daniel Toth, and acknowledged under oath that he is the Manager Real Estate and Construction of AT&T Mobility Corporation, the Manager of New Cingular Wireless PCS, LLC, the Tenant named in the attached instrument, and as such was authorized to execute this instrument on behalf of the Tenant.

Erin Woodard  
Notary Public: Erin Woodard  
My Commission Expires: May 4, 2015



**LANDLORD ACKNOWLEDGMENT**

STATE OF KENTUCKY)

) ss:

COUNTY OF GRAYSON)

On the 7<sup>th</sup> day of June, 2013, before me personally appeared Herbert R. Swift, who acknowledged under oath, that he is the person/officer named in the within instrument, and that he/she executed the same in his/her stated capacity as the voluntary act and deed of Landlord for the purposes therein contained.

Marcia G. Bradley  
Notary Public: MARCIA G. BRADLEY  
My Commission Expires: 6-28-16

STATE OF KENTUCKY)

) ss:

COUNTY OF GRAYSON)

On the 7<sup>th</sup> day of June, 2013 before me, personally appeared Patsy F. Swift, who acknowledged under oath, that she is the person/officer named in the within instrument, and that he/she executed the same in his/her stated capacity as the voluntary act and deed of Landlord for the purposes therein contained.

Marcia G. Bradley  
Notary Public: MARCIA G. BRADLEY  
My Commission Expires: 6-28-16

**EXHIBIT 1**

**DESCRIPTION OF PREMISES**

Page 1 of 12

to the Memorandum of Lease dated July 25, 2013, by and between Herbert R. Swift and Patsy F. Swift as Trustees of The Herbert R. and Patsy F. Swift Trust U.T.D. Jan. 25, 2002, as Landlord, and New Cingular Wireless PCS, LLC, a Delaware limited liability company, as Tenant.

The Property is legally described as follows:

Deed for Property for Leased Premises Attached – Deed Book 380, Page 555

Deed for Property for Access Road Attached – Deed Book 328, Page 227

The Premises are described and/or depicted as follows:

**SEE ATTACHED SURVEY**

**LEGAL DESCRIPTIONS**

THE FOLLOWING IS A DESCRIPTION OF AN AREA TO BE LEASED FROM THE PROPERTY OF HERBERT R. & PATSY F. SWIFT TRUST, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**PROPOSED LEASE AREA**

BEGINNING AT A FOUND 1/2" REBAR CAPPED "THE YOUNG SR KYLS 1422" IN THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO HERBERT R. & PATSY F. SWIFT TRUST AS RECORDED IN DEED BOOK 328, PAGE 227, PARCEL ONE TRACT I IN THE OFFICE OF THE CLERK OF GRAYSON COUNTY, KENTUCKY; THENCE WITH THE SOUTH PROPERTY LINE OF SAID SWIFT PROPERTY, S 81°43'40" E - 257.23' TO A FOUND 1/2" REBAR CAPPED "THE YOUNG SR KYLS 1422" IN THE SOUTHEAST OF SAID SWIFT PROPERTY; THENCE WITH THE EAST PROPERTY LINE OF SAID SWIFT PROPERTY, N 01°14'20" E - 562.00' TO A POINT IN THE SOUTH RIGHT-OF-WAY LINE OF VICTORY HEIGHTS ROAD; THENCE WITH SAID RIGHT-OF-WAY, N 84°24'32" W - 10.03' TO A SET 5/8" REBAR; THENCE LEAVING SAID RIGHT-OF-WAY LINE AND TRAVERSING ADJACENT SWIFT PROPERTY, S 81°14'20" W - 506.21' TO A SET 5/8" REBAR; THENCE WITH THE ARC OF A CURVE TO THE RIGHT WITH A RADIUS OF 40.00' AND A CHORD OF 5 49°45'20" W - 59.93' TO A SET 5/8" REBAR; THENCE N 81°43'40" W - 249.70' TO A SET 5/8" REBAR; THENCE WITH THE ARC OF A CURVE TO THE LEFT WITH A RADIUS OF 40.00' AND A CHORD OF 5 58°14'04" W - 51.48' TO A SET 5/8" REBAR; THENCE S 18°11'57" W - 96.87' TO A SET 5/8" REBAR; THENCE WITH THE ARC OF A CURVE TO THE RIGHT WITH A RADIUS OF 50.00' AND A CHORD OF 5 58°12'51" W - 64.30' TO A SET 5/8" REBAR; THENCE N 81°46'14" W - 47.77' TO A SET 5/8" REBAR; THENCE S 88°13'46" W - 50.00' TO A SET 5/8" REBAR; THENCE N 81°46'14" W - 10.00' TO A SET 5/8" REBAR AND THE TRUE POINT OF BEGINNING OF THE PROPOSED LEASE AREA; THENCE N 81°46'14" W - 100.00' TO A SET 5/8" REBAR; THENCE N 08°13'46" E - 100.00' TO A SET 5/8" REBAR, BEING S 82°04'35" E - 407.23' FROM A FOUND 1/2" REBAR CAPPED "K. CLEMONS PLS 2811"; THENCE S 81°46'14" E - 100.00' TO A SET 5/8" REBAR; THENCE S 08°13'46" W - 100.00' TO THE TRUE POINT OF BEGINNING CONTAINING 110,000 SQ. FT. AS PER SURVEY BY MARK PATTERSON, LPLS #3136 DATED JULY 2, 2013.

**CENTERLINE PROPOSED 20' ACCESS & UTILITY EASEMENT**

BEGINNING AT A FOUND 1/2" REBAR CAPPED "THE YOUNG SR KYLS 1422" IN THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO HERBERT R. & PATSY F. SWIFT TRUST AS RECORDED IN DEED BOOK 328, PAGE 227, PARCEL ONE TRACT I IN THE OFFICE OF THE CLERK OF GRAYSON COUNTY, KENTUCKY; THENCE WITH THE SOUTH PROPERTY LINE OF SAID SWIFT PROPERTY, S 81°43'40" E - 257.23' TO A FOUND 1/2" REBAR CAPPED "THE YOUNG SR KYLS 1422" IN THE SOUTHEAST OF SAID SWIFT PROPERTY; THENCE WITH THE EAST PROPERTY LINE OF SAID SWIFT PROPERTY, N 01°14'20" E - 562.00' TO A POINT IN THE SOUTH RIGHT-OF-WAY LINE OF VICTORY HEIGHTS ROAD; THENCE WITH SAID RIGHT-OF-WAY, N 84°24'32" W - 10.03' TO A SET 5/8" REBAR AND THE TRUE POINT OF BEGINNING OF THE CENTERLINE OF THE PROPOSED 20' ACCESS & UTILITY EASEMENT; THENCE LEAVING SAID RIGHT-OF-WAY LINE, FOLLOWING SAID CENTERLINE AND TRAVERSING ADJACENT SWIFT PROPERTY, S 01°14'20" W - 506.21' TO A SET 5/8" REBAR; THENCE WITH THE ARC OF A CURVE TO THE RIGHT WITH A RADIUS OF 40.00' AND A CHORD OF 5 49°45'20" W - 59.93' TO A SET 5/8" REBAR; THENCE N 81°43'40" W - 249.70' TO A SET 5/8" REBAR; THENCE WITH THE ARC OF A CURVE TO THE LEFT WITH A RADIUS OF 40.00' AND A CHORD OF 5 58°14'04" W - 51.48' TO A SET 5/8" REBAR; THENCE S 18°11'57" W - 96.87' TO A SET 5/8" REBAR; THENCE WITH THE ARC OF A CURVE TO THE RIGHT WITH A RADIUS OF 50.00' AND A CHORD OF 5 58°12'51" W - 64.30' TO A SET 5/8" REBAR; THENCE N 81°46'14" W - 47.77' TO A SET 5/8" REBAR; THENCE N 81°46'14" W - 10.00' TO A SET 5/8" REBAR AND THE END OF SAID EASEMENT AS PER SURVEY BY MARK PATTERSON, LPLS #3136 DATED JULY 2, 2013.

**TEMPORARY BENCHMARK**

NORTHING: 3691860.88  
EASTING: 4763265.78  
ELEVATION: 626.20  
LOCATION: BEING A FOUND 1/2" REBAR CAPPED "THE YOUNG SR KYLS 1422" LOCATED IN THE SOUTHEAST CORNER OF PARCEL # 084-08-00-016 DA.

**FAA COORDINATE POINT**

NAQ 81  
LATITUDE: 37° 27' 38.42"  
LONGITUDE: 86° 17' 39.27"  
NAVD 83  
ELEVATION: 712.1 AMSL  
NORTHING: 3691777.30  
EASTING: 4763289.98

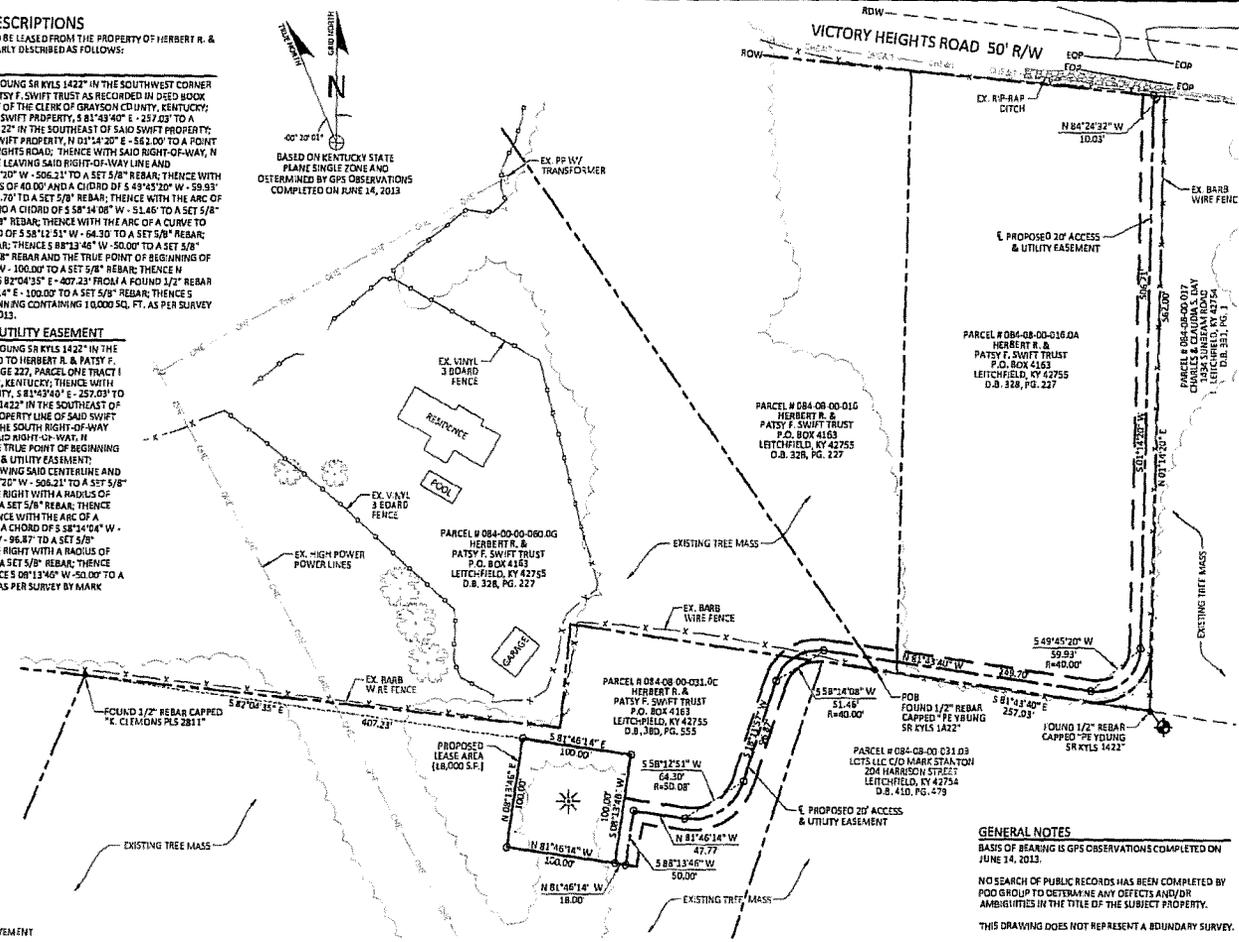
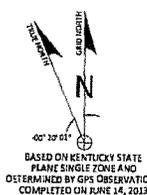
**LEGEND**

- UTILITY POLE
- EDGE OF PAVEMENT
- CONCRETE
- RIGHTS OF WAY
- POINT OF BEGINNING
- IRON PIN CAPPED
- EX. OVERHEAD ELECTRIC
- EX. OVERHEAD ELECTRIC & TELEPHONE
- EX. UNDERGROUND TELEPHONE
- EX. FENCE LINE
- EX. DITCH
- SET 5/8" REBAR 18" LONG (UNLESS OTHERWISE NOTED)
- FOUND MONUMENT AS NOTED

**LAND SURVEYOR'S CERTIFICATE**

I HEREBY CERTIFY THAT THE SURVEY DEPICTED BY THE PLAT WAS PERFORMED BY PERSONS UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE WITH SIDE SHOTS, THE UNADJUSTED PRECISION RATIO OF THE TRAVERSE EXCEEDED 1:10,000 AND WAS NOT ADJUSTED FOR CLOSURE. THIS SURVEY MEETS OR EXCEEDS THE MINIMUM STANDARDS FOR AN URBAN SURVEY AS ESTABLISHED BY THE STATE OF KENTUCKY, PER 201 KAR 18.150 AND IN EFFECT ON THE DATE OF THIS SURVEY.

MARK PATTERSON, LPLS #3136 DATE



**FLOOD NOTE**  
THE PROPOSED LEASE AREA SITS WITHIN HEREDIN IS NOT LOCATED IN A 100-YEAR FLOODPLAIN PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY PANEL NUMBER 11055022JC, DATED SEPTEMBER 30, 2013. THE PROPOSED LEASE AREA IS LOCATED IN ZONE X.

**SITE INFORMATION**  
TAX PARCEL NUMBER: 084-08-00-032.0C  
PROPERTY OWNER: HERBERT R. & PATSY F. SWIFT TRUST, P.O. BOX 4163, LETTCHFIELD, KY 42755  
SOURCE OF TITLE: D.R. 380, PG. 555

**POD**  
POWER OF DESIGN  
28 W. HALL PLAZA  
SHELBYVILLE, KY 40685  
502-497-2383

**fmhc**  
**at&t**

**SURVEY**

REV.	DATE	DESCRIPTION

**SITE INFORMATION:**  
**LETTCHFIELD SO**  
397 VICTORY HEIGHTS ROAD  
LETTCHFIELD, KY 42754

**SITE NUMBER:**

**POD NUMBER:** 13-0623  
**DRAWN BY:** DSR  
**CHECKED BY:** MEP  
**DATE:** 07.02.13

**SHEET TITLE:**  
**SITE SURVEY**

**SHEET NUMBER:**  
**B-1**

o

Copy

380/555

1700 +1  
Rec'd \_\_\_\_\_  
Ex. Pg. 1-300  
Date 7.50  
TRTAX  
2-1-08

**DEED**

**THIS DEED OF CONVEYANCE** made and entered into on this the 31<sup>st</sup> day of January, 2008, by and between **WILLIAM E. ALLEN and JOYCE ANN ALLEN**, his wife, of 1625 Anneta Road, Leitchfield, Grayson County, Kentucky 42754, hereinafter referred to as First Parties, and **HERBERT R. SWIFT and PATSY F. SWIFT as Trustees of THE HERBERT R. AND PATSY F. SWIFT TRUST U.T.D. Jan 25, 2002**, of P. O. Box 4163, 397 Victory Heights Drive, Leitchfield, Grayson County, Kentucky 42754, hereinafter referred to as Second Parties;

**WITNESSETH:**

That First Parties, for and in consideration of the sum of **SEVEN THOUSAND TWO HUNDRED SEVENTY-THREE (\$7,273.00) DOLLARS**, cash in hand paid, the receipt of which is hereby acknowledged, do hereby sell and convey unto the said Second Parties as Trustees, their successors and assigns forever, the following described real property located in Grayson County, Kentucky, to-wit:

A certain tract of land lying and being near the south end of the City of Leitchfield, Grayson County, Kentucky, being approx. 1000' west of highway #259 and 0.3 miles south of the Western Ky. Parkway and being further bounded and described as follows:

All references to "a rebar (set)" being 1/2" x 18" steel rebar w/id cap #2811 or to a "reference rebar (set)" being 1/2" x 18" steel rebar w/id cap stamped "witness monument PLS2811".

Beginning at a 5/8" steel rebar (found) w/id cap #2373 at the northeast corner of the Kentucky RSA #3 Cellular General Partnership Tract (D.B. 228, Pg. 638); Thence with the line of said Cellular Tract, S-89-15-04-W a distance of 440.60' to a 5/8" steel rebar (found) w/id cap #2373, said rebar being the northwest corner of the Cellular Tract; Thence severing the William & Joyce Allen Parent Tract, S-89-15-04-

W a distance of 291.94' to a rebar (set) in the east line of the Kay Fentress Stanton Revocable Living Trust Tract (D.B. 367, Pg. 62); Thence with east line of Stanton, N-23-31-09-E a distance of 501.66' to a rebar (set) in a south line of the Herbert & Patsy Swift Tract (D.B. 328, Pg. 227); Thence the next three calls with the south lines of Swift; S-84-05-17-E a distance of 440.36' to a 5/8" steel rebar (found) w/id cap #2373; N-05-31-48-E a distance of 99.00' to a rebar (set) S-81-47-12-E a distance of 234.96' to an unmarked point, said point being referenced N-18-08-25-E a distance of 6.79' from a 1/2" steel rebar (found) w/id cap #2811 and being the northwest corner of Marty & Sons Construction, Inc. (D. B. 315, Pg. 603); Thence S-18-08-25-W a distance of 333.38' (passing a 1/2" rebar on line at a distance of 6.79') to a 1/2" steel rebar (found) w/id cap #2811, said rebar being the southwest corner of Marty & Sons Tract; Thence severing the said parent tract, S-16-02-01-W a distance of 159.41' to the POINT OF BEGINNING.

CONTAINING: 7.273 ACRES more or less according to a survey performed by Clemons Engineering and Land Surveying on 12/27/07. Kendall Clemons Ky. P. L. S. #2811.

Together with and subject to any and all rights-of-way, appurtenances, covenants, easements and restrictions on record in effect to date.  
BASIS OF BEARING: Geodetic north.

BEING part of the same property conveyed from E. Michael Dice and Linda Dice, his wife, to William E. Allen and Joyce Ann Allen, his wife, by Deed dated the 31st day of January, 1992, and of record in Deed Book 226, at Page 319, records of the Grayson County Clerk's Office.

**TO HAVE AND TO HOLD** the same, together with all the appurtenances thereunto belonging to the Second Parties as Trustees, their successors and assigns forever, with Covenant of **GENERAL WARRANTY**.

**THE PARTIES HERETO** state under oath that the consideration reflected in this Deed is the full consideration paid to First Parties for their interest in and to the above-described property. Second Parties as Trustees join in this Deed for the sole purpose of certifying the amount of consideration pursuant to K.R.S. 382.

**IN TESTIMONY WHEREOF**, Witness the signatures of the Parties hereto on this the  
day and year first above written.

FIRST PARTIES:

William E. Allen  
WILLIAM E. ALLEN

Joyce Ann Allen  
JOYCE ANN ALLEN

SECOND PARTIES:

THE HERBERT R. AND PATSY F. SWIFT TRUST U.T.D. Jan 25, 2002

Herbert R. Swift Co. Trust  
HERBERT R. SWIFT, Trustee

Patsy F. Swift Co. Trust  
PATSY F. SWIFT, Trustee

STATE OF KENTUCKY  
COUNTY OF GRAYSON

SUBSCRIBED, SWORN TO AND ACKNOWLEDGED before me by WILLIAM E.  
ALLEN, on this the 31st day of January, 2008 to be his free and voluntary act and deed.

Marianne B. Johnson  
NOTARY PUBLIC  
MY COMM. EXPIRES: 11/16/11

STATE OF KENTUCKY  
COUNTY OF GRAYSON

SUBSCRIBED, SWORN TO AND ACKNOWLEDGED before me by JOYCE ANN  
ALLEN, on this the 31st day of January, 2008 to be her free and voluntary act and deed.

Marianne B. Johnson  
NOTARY PUBLIC  
MY COMM. EXPIRES: 11/16/11

STATE OF KENTUCKY  
COUNTY OF GRAYSON

SUBSCRIBED, SWORN TO AND ACKNOWLEDGED before me by HERBERT R. SWIFT and PATSY F. SWIFT as Trustees of THE HERBERT R. AND PATSY F. SWIFT TRUST U.T.D. Jan 25, 2002, on this the 31<sup>st</sup> day of January, 2008, to be their free and voluntary act and deed.

Maisa L. Kibrey  
NOTARY PUBLIC  
MY COMM. EXPIRES: 11/12/11

Instrument prepared by:

GOFF & GOFF, P.S.C.  
Attorneys at Law  
53 Public Square  
Leitchfield, KY 42754  
(270) 259-9237

By: K Harold Goff  
K. HAROLD GOFF, II

State of Kentucky  
County of Grayson  
This instrument was filed for record on the 31<sup>st</sup> day of January, 2008, at 1:50 P.M. and duly recorded in Book 580 of the records of this office.  
ATTEST: Michelle Harris Deputy Clerk



BEARINGS - GEODETIC NORTH

LINE	BEARING	DISTANCE
L1	N 05°31'48" E	99.00'
L2	S 18°08'25" W	6.70'
L3	S 16°02'01" W	159.41'

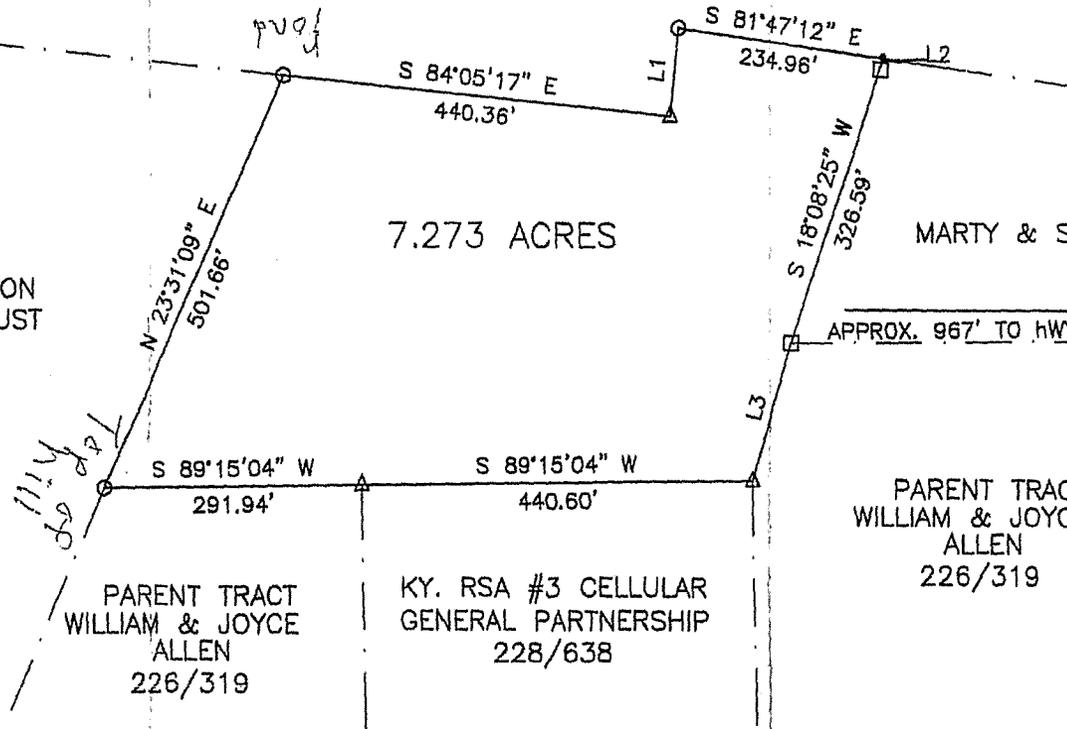
HERBERT & PATSY SWIFT  
328/227

KAY FENTRESS STANTON  
REVOCABLE LIVING TRUST  
367/62

7.273 ACRES

MARTY & SONS CONSTRUCTION, INC  
315/603

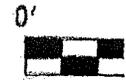
APPROX. 967' TO HWY. #259



PARENT TRACT  
WILLIAM & JOYCE  
ALLEN  
226/319

KY. RSA #3 CELLULAR  
GENERAL PARTNERSHIP  
228/638

PARENT TRACT  
WILLIAM & JOYCE  
ALLEN  
226/319



WIL.

WILLIAM A  
1825 ANN  
LEITCHFIELD

WILLIAM A  
1825 ANN  
LEITCHFIELD

SCALE 1" = 20'

DRAWN BY: MLB

LOCATION - LETT

APPROVED BY: KL

DISTANCES: E.D.M.

SURVEYOR'S CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAT DEPICTS A SURVEY, MADE BY ME OR UNDER MY DIRECT SUPERVISION BY THE METHOD OF RANDOM TRAVERSE. THIS SURVEY IS A CLASS "A" SURVEY AND MEETS ALL OF THE ACCURACY & PRECISION SPECIFICATIONS OF THIS CLASS. THE UNADJUSTED PRECISION RATIO OF CLOSURE IS 1:10,000. THE ANGULAR & LINEAR MEASUREMENTS HAVE NOT BEEN ADJUSTED FOR CLOSURE AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

KENDALL CLEMONS PLS #2811

DATE:

NOTES AND RESERVATIONS

1. THIS PROPERTY IS SUBJECT TO ANY AND ALL RIGHTS-OF-WAY, APPURTENANCES, RESTRICTIONS AND/OR EASEMENTS IN EFFECT TO DATE.
2. ALL CORNERS ARE 1/2" X 18" REBAR SET WITH IDENTIFIER CAP STAMPED D.L. CLEMONS P.L.S.#3383 KENDALL CLEMONS P.L.S.#2811 OR DWAYNE CLEMONS P.L.S.#2114 UNLESS OTHERWISE NOTED.
3. THE UNADJUSTED RANDOM TRAVERSE CLOSURE EXCEEDS 1:5000.
4. SURVEYOR HAS MADE NO INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE OR ANY OTHER FACTS THAT AN ACCURATE AND CURRENT TITLE SEARCH MAY DISCLOSE.
5. ADJOINING PROPERTY OWNERS ARE ACCORDING TO PROPERTY VALUATION OFFICE.

CLEMONS LAND SURVEYING  
& ENGINEERING, INC.  
103 SOUTH CLINTON STREET  
LEITCHFIELD, KY. 42754  
PH: 270-259-5898 OR 259-6674 (FAX)  
kendall@clemonsengineering.com

Mailed to  
Don Rattigan  
12123 Shelbyville to  
Suite 100-324  
Apo. Ky. 40243

copy 227

Rec'd 12.00  
Ex. Pg. 24.00  
Tax 0  
Date 8/30/02

**DEED OF CONVEYANCE**

THIS DEED OF CONVEYANCE made and entered into this 26 day of August, 2002, by and between Herbert R. Swift and Patsy F. Swift, his wife, of P.O. Box 4163, Leitchfield, Kentucky 42755, Parties of the First Part, Swift Enterprises, Inc., a corporation organized and existing under the laws of the state of Kentucky, Party of the Second Part, and the Herbert R. and Patsy F. Swift Trust dated the 25th day of January, 2002, %Herbert R. Swift or Patsy F. Swift, Co-Trustees, P.O. Box 4163 Leitchfield, Kentucky 42755, Party of the Third Part.

**WITNESSETH:**

That, for the consideration of \$1.00 and other consideration, the receipt of which is hereby acknowledged, the Parties of the First Part and Second Part hereby grant and convey unto Herbert R. Swift or Patsy F. Swift, Co-Trustees, the Herbert R. and Patsy F. Swift Trust, under declaration of trust dated the 25th day of January, 2002, Party of the Second Part:

**PARCEL ONE:**

TRACT I: A certain lot or parcel of property lying and being on the west side of Kentucky Highway 259 just south of The Western Kentucky Parkway in Grayson County, Kentucky, and further described as follows: BEGINNING at a point in the north lines of an old roadway, said beginning approximately 317' N 87 degrees 02' W from the west right of way of Ky 259 and also being the northeast corner of this property description; thence crossing the old roadway and with the west line of Grayson County 4 acre tract S 01 degrees 23' E 612.0 feet to a steel rod in an old fence line; thence with the old fence N 84 degrees-21' W 262.0 feet to a steel rod; thence, a new line, N 37 degrees 36' W 602.0 feet to a steel rod in the east line of the old roadway; thence with said line N 9 degrees 04' E a distance of 230.5 feet crossing the old road to the north lines; thence with the north line of the roadway S 63 degrees 48' E 225.1 feet and S 87 degrees 02' E 374.8 feet to the beginning, containing 6.80 acres.

Subject to a permanent easement for a roadway along the north side of this property description; said easement being 50 feet in width and approximately 600 feet in length. Survey by: Paul E. Young, Sr., Kentucky Registered Land Surveyor #1422 on March 30, 1985. Being a part of the same land conveyed by R. C. Constant, et al to First Pentecostal Church, Baptized Saints of that Faith, Inc., by

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deed dated March 13, 1985 and recorded in Deed Book 191, page 464, records of the Grayson County Court Clerk's office.

TRACT II: A certain lot or parcel of property lying and being on the west side of Kentucky Highway 259 just south of The Western Kentucky Parkway in Grayson County, Kentucky, and further described as follows: BEGINNING at a point in the east lines of an old roadway in the north line of the Raymond Pearl property; said point being the southwest corner of this property description; thence leaving Pearl and with the east line of the roadway as follows: N 37 degrees 03 minutes E 106 feet to a steel bar; N 66 degrees 48 minutes E 157 feet to a steel bar and S 77 degrees 19 minutes E 186 feet to a steel bar; thence crossing the roadway N 1 degrees 11 minutes E 50.2 feet to a steel bar; thence N 79 degrees 03 minutes E 420 feet to a steel bar at a power line; thence again crossing the roadway S 31 degrees 17 minutes E 50.2 feet to a steel bar; thence continuing the east line of the roadway N 50 degrees 23 minutes E 112.7 feet to a steel bar; N 46-16 minutes E 255.6 feet to a steel bar and N 9 degrees 04 minutes E 45.0 feet to a steel bar; thence leaving the roadway South 37 degrees 36 minutes East 602.0 feet to a steel bar in an old fence line; thence with the fence N 84 degrees 21 minutes W 300 feet to a tree; thence South 2 degrees 58 minutes West 99.0 feet to a steel bar; thence leaving the fence N 87 degrees 02 minutes W 1172.0 feet to the beginning, containing 7.71 acres.

Subject to a permanent easement along the north line and central section of this property description for a roadway; said easement being 50 feet in width and approximately 420 feet in length. Survey made by Paul E. Young, Sr., Kentucky Registered Land Surveyor #1422, March 30, 1985.

Parcel One being the same property conveyed to the First Parties by deed dated the 24<sup>th</sup> day of June, 1987, and recorded in Deed Book 203, Page 14, in the office of the Clerk of the Grayson County Court. A portion of Parcel One was conveyed to Swift Enterprises, Inc. by deed dated the 30<sup>th</sup> day of September, 1998, and recorded in Deed Book 296, Page 344, in the office of the Clerk of the Grayson County Court. By this deed, the full 7.71 acres has now been reconsolidated.

**PARCEL TWO:**

TRACT I: A certain parcel of land located in Grayson County, Kentucky, on the waters of Taylor's Fork of Bear Creek, lying

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approximately 1/2 mile West of State Highway No. 259, and 1/4 mile South of the Western Ky. Parkway, formerly known as the Tan Rice farm, more fully described as follows: BEGINNING at a Pen Oak, an original corner to the Dr. Ramsey tract and the W. A. Higdon tract; thence N 86 degrees 06' W, with the W. A. Higdon and the Edward Elmore tract, 1401.64 feet to an iron rod and stone at the south edge of an old road, a corner of Don McDonald; thence with McDonald's line, nearly following an old woven wire fence, N 3 degrees 06' W 1761.4 feet to an iron rod at the base of an original corner stone joining the A. J. Route farm; thence S 88 degrees E. 2237.4 feet, with the A. J. Route, Howard Tomes and Lowery Enterprizes lines to an iron rod, located about 110 feet west of the easement line of the R. E. A. high voltage power line; thence S 22 ~~degrees 36' W~~ 1918.06 feet to the beginning corner, containing 76.03 acres.

TRACT II: A certain parcel of land located in Grayson County, Kentucky, near the City of Leitchfield, lying on the South side of the Western Kentucky Parkway, on Sunset Lick Branch, bounded and described as follows: BEGINNING at an iron rod in the A. J. Routt line at a pull post in the South right of way fence of the Western Kentucky Parkway, being 150 feet right of Station 6985+92; thence continuing with the right of way line N 56 degrees 38' E 303.93 feet to an iron rod at another pull post; thence continuing with the right of way line N 57 degrees 36' E 770.40 feet, to another pull post; thence continuing with the right of way line, N 73 degrees 41' E 362.76 feet to an iron rod approximately 160 feet right of Western Ky. Parkway station 7000+80; thence nearly with an old fence line, S 27 degrees 35' W 770.57 feet, to an iron rod at the base of a 12" elm; thence meandering with a branch S 7 degrees W-337.90 feet to an iron rod; thence S 40 degrees 15' W 164.60 feet to an iron rod in center of branch, 25 feet Southeast of twin black oaks, this corner being in the original Tan Rice line; thence continuing with the Rice line N 88 degrees W-700.30 to an iron rod near an old woven wire fence line the A. J. Routt Heirs line; thence nearly with the fence continuing with the Routt line to the beginning corner at N 3 degrees 04' E 609.51 feet, containing 20.06 acres.

Parcel Two being the same property in which an undivided one-fourth (1/4) interest was conveyed to First Parties by deed dated the 9<sup>th</sup> day of September, 2000, and recorded in Deed Book 306, Page 28, in the office of the Clerk of the Grayson County Court. Also being the same property in which an undivided one-fourth (1/4) interest was conveyed to the First Parties by deed dated the 29<sup>th</sup> day of January, 2000, and recorded in Deed Book 299, Page 64, in the

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office of the Clerk of the Grayson County Court. The two deeds vest an undivided one-half (1/2) interest in said property.

TO HAVE AND TO HOLD the foregoing described real estate together with all and singular the appurtenances thereunto belonging or in anywise appertaining unto Herbert R. Swift or Patsy F. Swift, Co-Trustees, the Herbert R. and Patsy F. Swift Trust, under declaration of trust dated the 25th day of January, 2002, Party of the Second Part, the covenant of general warranty of title.

First, Second, and Third Parties did not request a title search or title opinion, therefore no title search was performed nor certificate of title opinion issued.

The parties hereto state that the nominal consideration reflected in this deed is the full consideration paid for the property. The Party of the Third Part joins in this deed for the sole purpose of certifying the consideration pursuant to KRS 382.135. Party of the Third Part certifies understanding that falsification of the stated consideration or sales price of the property is a Class D felony, subject to one to five years imprisonment and a fine up to \$10,000.

There is no consideration paid for property contained in this deed. In accordance with KRS 142.050 the fair market value of the property is \$115,400.00. However, under KRS 142.050(8b) this is a deed of conveyance that is exempt from the transfer tax because it is to a Trust that qualifies under the specific cited KRS section.

IN TESTIMONY WHEREOF, witness the hands of the parties hereto this the day and date first written above.

Herbert R. Swift  
Herbert R. Swift, Individually  
First Party

Patsy F. Swift  
Patsy F. Swift, Individually  
First Party

Swift Enterprises, Inc.

By: Herbert R. Swift  
Herbert R. Swift, President  
Second Party

Herbert R. Swift  
Herbert R. Swift, Co-Trustee  
Herbert R. and Patsy F. Swift Trust  
Third Party

Patsy F. Swift  
Patsy F. Swift, Co-Trustee  
Herbert R. and Patsy F. Swift Trust  
Third Party

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THE STATE OF KENTUCKY  
COUNTY OF GRAYSON

The foregoing deed and consideration certificate was acknowledged and sworn to before me on the 26 day of AUGUST, 2002 by Herbert R. Swift and Patsy F. Swift, Individually, and Herbert R. Swift and Patsy F. Swift, Co-Trustees, the Herbert R. and Patsy F. Swift Trust dated the 25th day of January, 2002, and Herbert R. Swift, President of Swift Enterprises, Inc.

  
Signed Name of Notary Public

Don T. Ratcliffe, Notary, State at Large  
My Commission Expires 1/20/03

This instrument was prepared by:

  
Don T. Ratcliffe, Attorney  
12700 Shelbyville Road  
Danville Building, Suite 327  
Louisville, Kentucky 40243  
502/244-4228 or 800/923-4227

State of Kentucky  
County of Grayson...SS  
This instrument was filed for record on the 30th day of  
Aug. 20 at 10:33 o'clock A M  
and duly recorded in Deed Book 328  
Page 227 of the records of this office.  
Att. Paul S. Clement Clerk  
Deputy Clerk

State of Kentucky, County of Grayson...SCT  
This instrument was filed for record on the  
7 day of NOVEMBER 20 13  
at 9:40 o'clock A M and duly recorded in  
Deed Book 425 Page 496  
of the records of this office.  
Att. Sherry Weedman, Clerk  
By Melissa [Signature] Deputy Clerk



**EXHIBIT K  
NOTIFICATION LISTING**

## Leitchfield South Landowner Notice Listing

Herbert R and Patsy F Swift Trust  
P.O. Box 4163  
Leitchfield, KY 42755

Charles E. and Claudia S. Day  
1434 Sunbeam Road  
Leitchfield, KY 42754

Lots LLC co/ Mark Stanton  
204 Harrison Street  
Leitchfield, KY 42754

Mark Stanton  
P.O. Box 483  
Leitchfield, KY 42755

Cellular Gen Partnership  
P.O. Box 5012  
Elizabethtown, KY 42702

Bridgette Allen  
1625 Annetta Road  
Leitchfield, KY 42754

Mark H. and Kay F. Stanton  
Stanton Revocable Living Trust  
400 Victory Heights Drive  
Leitchfield, KY 42754

Mark H. Stanton  
P.O. Box 483  
Leitchfield, KY 42755

Jesse and Kenneth Young  
c/o Mark H. Stanton  
P.O. Box 483  
Leitchfield, KY 42755

Phillip W. Smith  
127 East White Oak Street  
Leitchfield, KY 42754

Victory Heights Temple, Inc.  
72 Victory Heights Road  
Leitchfield, KY 42754



**EXHIBIT L**  
**COPY OF PROPERTY OWNER NOTIFICATION**



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

**Notice of Proposed Construction of  
Wireless Communications Facility  
Site Name: Leitchfield South**

Dear Landowner:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 397 Victory Heights Road, Leitchfield, Kentucky 42754 (37°27'38.42" North latitude, 86°17'39.27" West longitude). The proposed facility will include a 190-foot tall antenna tower, plus a 9-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

This notice is being sent to you because the Grayson County Property Valuation Administrator's records indicate that you may own property that is within a 500' radius of the proposed tower site or contiguous to the property on which the tower is to be constructed. You have a right to submit testimony to the Kentucky Public Service Commission ("PSC"), either in writing or to request intervention in the PSC's proceedings on the application. You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2013-00426 in any correspondence sent in connection with this matter.

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

Sincerely,  
David A. Pike  
Attorney for AT&T Mobility

enclosure

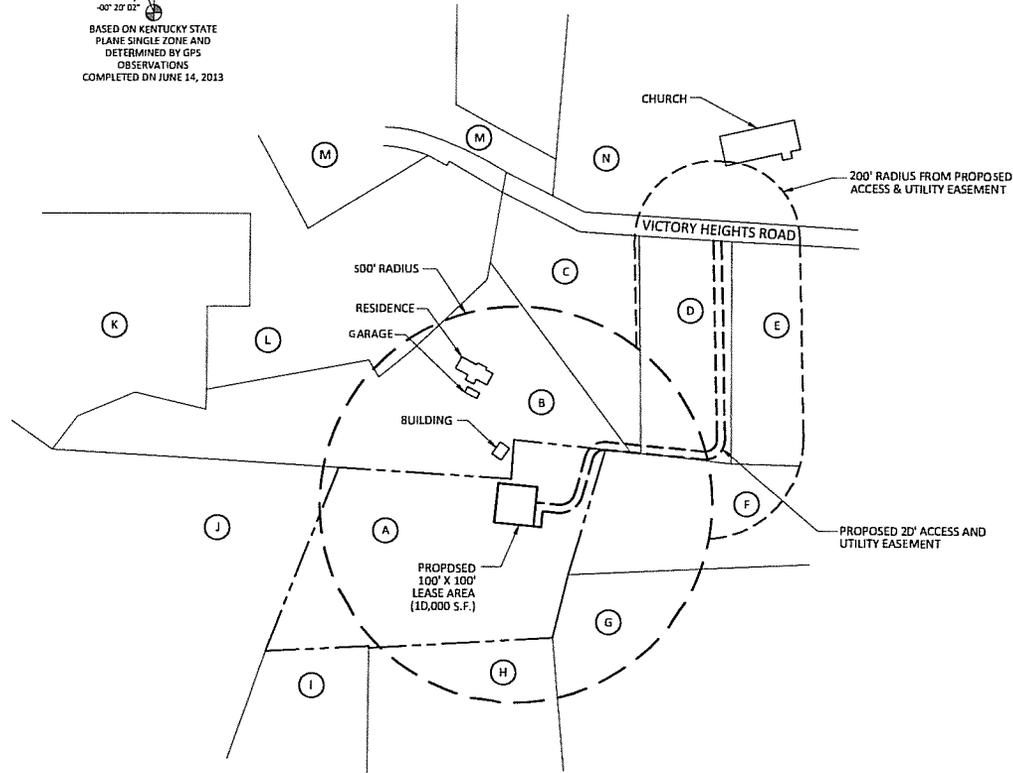
Driving Directions to Proposed Tower Site:

1. Beginning at the offices of the Grayson County Judge Executive, located, at 10 Public Square, Leitchfield, KY, head southwest towards the Public Square.
2. At the traffic circle, stay on Public Square until continuing onto South Main Street. After reaching South Main Street, travel 1.0 mile.
3. Continue onto KY-259 South / Annetta Road and travel 0.2 miles.
4. Turn right onto Victory Heights Road and travel 0.3 miles. The destination is 397 Victory Heights Road, Leitchfield, Kentucky and it will be on the left.
5. site coordinates are
  - a. 37 deg 27 min 38.42 sec N
  - b. 86 deg 17 min 39.27 sec W



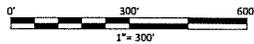
Prepared by:  
Aaron L. Roof  
Pike Legal Group PLLC  
1578 Highway 44 East, Suite 6  
PO Box 369  
Shepherdsville, KY 40165-0369  
Telephone: 502-955-4400 or 800-516-4293

BASED ON KENTUCKY STATE  
 PLANE SINGLE ZONE AND  
 DETERMINED BY GPS  
 OBSERVATIONS  
 COMPLETED ON JUNE 14, 2013



**GENERAL NOTE:**

1. ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE GRAYSON COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON 6.14.13 AND 12.11.13. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
2. THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY



- |   |   |
|---|---|
| <p>(A) PARCEL # 084-08-00-031.0C<br/>HERBERT R AND PATSY F SWIFT TRUST<br/>PO BOX 4163<br/>LEITCHFIELD, KY 42755<br/>O.B. 380, PG. 555<br/>NO ZONING</p> <p>(B) PARCEL # 084-04-DD-EDG<br/>HERBERT R AND PATSY F SWIFT TRUST<br/>PO BOX 4163<br/>LEITCHFIELD, KY 42755<br/>D.B. 328, PG. 227<br/>NO ZONING</p> <p>(C) PARCEL # 084-08-00-016<br/>HERBERT R AND PATSY F SWIFT TRUST<br/>PO BOX 4163<br/>LEITCHFIELD, KY 42755<br/>D.B. 328, PG. 227<br/>NO ZONING</p> <p>(D) PARCEL # 084-08-00-016.0A<br/>HERBERT R AND PATSY F SWIFT TRUST<br/>PO BOX 4163<br/>LEITCHFIELD, KY 42755<br/>D.B. 328, PG. 227<br/>NO ZONING</p> <p>(E) PARCEL # 084-08-00-017<br/>CHARLES E AND CLAUDIA S DAY<br/>1434 SUNBEAM RD<br/>LEITCHFIELD, KY 42754<br/>D.B. 331, PG. 1<br/>NO ZONING</p> <p>(F) PARCEL # 084-08-00-031.0B<br/>LOTS LLC C/O MARK STANTON<br/>PO BOX 483<br/>LEITCHFIELD, KY 42755<br/>D.B. 410, PG. 479<br/>NO ZONING</p> <p>(G) PARCEL # 084-08-00-031.0D<br/>MARK STANTON<br/>PO BOX 483<br/>LEITCHFIELD, KY 42755<br/>D.B. 421, PG. 282<br/>NO ZONING</p> <p>(H) PARCEL # 084-08-00-031.0A<br/>CELLULAR GEN PARTNERSHIP<br/>PO BOX 5012<br/>ELIZABETHTOWN, KY 42702<br/>D.B. 228, PG. 638<br/>NO ZONING</p> <p>(I) PARCEL # 084-08-00-031<br/>BRIDGETTE ALLEN<br/>1625 ANNETTA RD<br/>LEITCHFIELD, KY 42754<br/>D.B. 388, PG. 22<br/>NO ZONING</p> | <p>(J) PARCEL # 084-05-00-005<br/>MARK H AND KAY F STANTON<br/>STANTON REVOCABLE LIVING TRUST<br/>400 VICTORY HEIGHTS DR<br/>LEITCHFIELD, KY 42754<br/>D.B. 367, PG. 62<br/>NO ZONING</p> <p>(K) PARCEL # DB4-05-00-004<br/>MARK H STANTON<br/>PO BOX 483<br/>LEITCHFIELD, KY 42755<br/>D.B. 214, PG. 446<br/>NO ZONING</p> <p>(L) PARCEL # 084-00-00-06D.0E<br/>JESSE AND KENNETH YOUNG<br/>C/O MARK H STANTON<br/>PO BOX 483<br/>LEITCHFIELD, KY 42755<br/>D.B. 244, PG. 418<br/>NO ZONING</p> <p>(M) PARCEL # 084-08-00-001<br/>PHILLIP W SMITH<br/>127 EAST WHITE OAK ST<br/>LEITCHFIELD, KY 42754<br/>D.B. 205, PG. 272<br/>NO ZONING</p> <p>(N) PARCEL # 084-08-00-004<br/>VICTORY HEIGHTS TEMPLE INC<br/>72 VICTORY HEIGHTS RD<br/>LEITCHFIELD, KY 42754<br/>D.B. 207, PG. 257<br/>NO ZONING</p> |
|---|---|






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**SURVEY**

REV.	DATE	DESCRIPTION
A	08.28.13	REV'D EASEMENT RADIUS
B	12.11.13	VERIFIED PVA

---

SITE INFORMATION:

**LEITCHFIELD SO**

397 VICTORY HEIGHTS RD  
LEITCHFIELD, KY 42754  
COUNTY: GRAYSON

---

SITE NUMBER:

---

POD NUMBER: 13-0662

DRAWN BY: CSA  
CHECKED BY: MEP  
DATE: 06.26.13

---

SHEET TITLE:

**500' RADIUS &  
ABUTTER'S MAP**

---

SHEET NUMBER:

**B-2**



**EXHIBIT M**  
**COPY OF COUNTY JUDGE/EXECUTIVE NOTICE**



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

**VIA CERTIFIED MAIL**

Hon. Gary Logsdon  
Grayson County Judge/Executive  
Grayson County Courthouse  
10 Public Sq.  
Leitchfield, KY 42754

RE: Notice of Proposal to Construct Wireless Communications Facility  
Kentucky Public Service Commission Docket No. 2013-00426  
Site Name: Leitchfield South

Dear Judge Logsdon:

New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 397 Victory Heights Road, Leitchfield, Kentucky 42754 (37°27'38.42" North latitude, 86°17'39.27" West longitude). The proposed facility will include a 190-foot tall antenna tower, plus a 9-foot lightning arrestor and related ground facilities. This facility is needed to provide improved coverage for wireless communications in the area.

You have a right to submit comments to the PSC or to request intervention in the PSC's proceedings on the application. You may contact the PSC at: Executive Director, Public Service Commission, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2013-00426 in any correspondence sent in connection with this matter.

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

Sincerely,

David A. Pike  
Attorney for AT&T Mobility  
enclosure

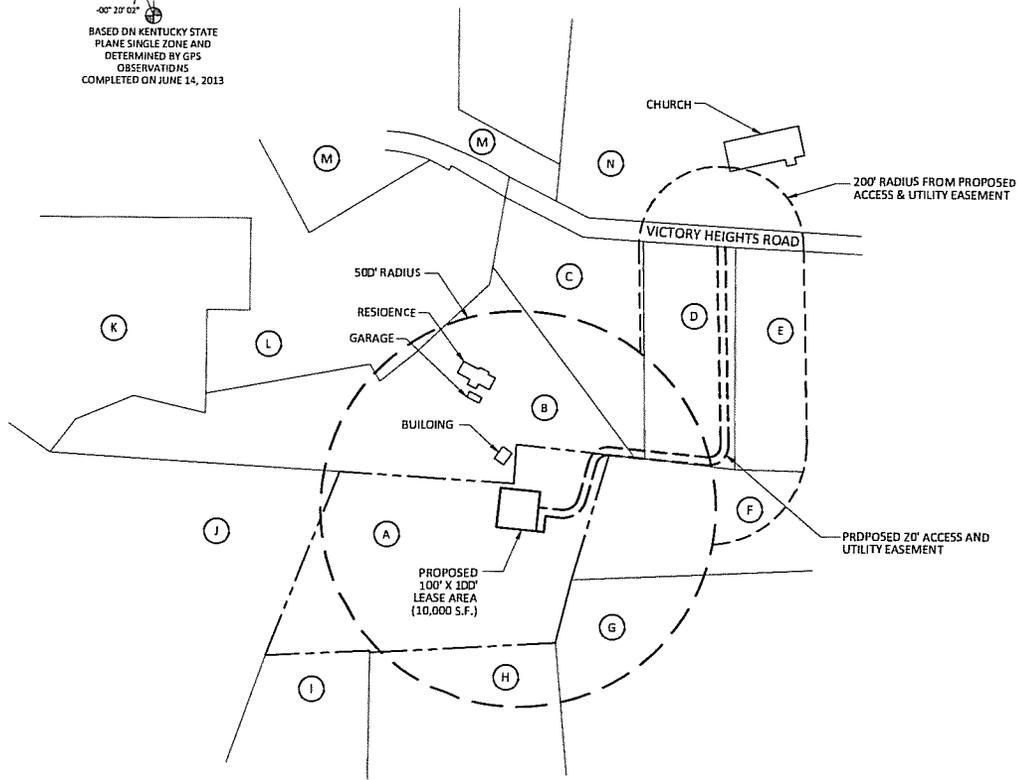
Driving Directions to Proposed Tower Site:

1. Beginning at the offices of the Grayson County Judge Executive, located, at 10 Public Square, Leitchfield, KY, head southwest towards the Public Square.
2. At the traffic circle, stay on Public Square until continuing onto South Main Street. After reaching South Main Street, travel 1.0 mile.
3. Continue onto KY-259 South / Anneta Road and travel 0.2 miles.
4. Turn right onto Victory Heights Road and travel 0.3 miles. The destination is 397 Victory Heights Road, Leitchfield, Kentucky and it will be on the left.
5. site coordinates are
  - a. 37 deg 27 min 38.42 sec N
  - b. 86 deg 17 min 39.27 sec W



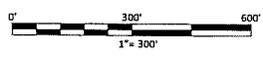
Prepared by:  
Aaron L. Roof  
Pike Legal Group PLLC  
1578 Highway 44 East, Suite 6  
PO Box 369  
Shepherdsville, KY 40165-0369  
Telephone: 502-955-4400 or 800-516-4293

-00° 20' 02"  
 BASED ON KENTUCKY STATE  
 PLANE SINGLE ZONE AND  
 DETERMINED BY GPS  
 OBSERVATIONS  
 COMPLETED ON JUNE 14, 2013



**GENERAL NOTE:**

- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE GRAYSON COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON 6.14.13 AND 12.11.13. THE PROPERTY VALUATION ADMINISTRATION RECORDS MAY NOT REFLECT THE CURRENT OWNERS AND ADDRESSES DUE TO THE INACCURACIES AND TIME LAPSE IN UPDATING FILES. THE COUNTY PROPERTY VALUATION ADMINISTRATION EXPRESSLY DISCLAIMS ANY WARRANTY FOR THE CONTENT AND ANY ERRORS CONTAINED IN THEIR FILES
- THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY



- (A) PARCEL # D84-08-00-031.0C  
HERBERT R AND PATSY F SWIFT TRUST  
PO BOX 4163  
LEITCHFIELD, KY 42755  
D.B. 380, PG. 555  
NO ZDNING
- (B) PARCEL # 084-04-00-60G  
HERBERT R AND PATSY F SWIFT TRUST  
PO BOX 4163  
LEITCHFIELD, KY 42755  
D.B. 328, PG. 227  
NO ZDNING
- (C) PARCEL # 084-08-00-016  
HERBERT R AND PATSY F SWIFT TRUST  
PO BOX 4163  
LEITCHFIELD, KY 42755  
D.B. 328, PG. 227  
NO ZDNING
- (D) PARCEL # D84-08-00-016.DA  
HERBERT R AND PATSY F SWIFT TRUST  
PO BOX 4163  
LEITCHFIELD, KY 42755  
D.B. 328, PG. 227  
NO ZDNING
- (E) PARCEL # D84-08-00-017  
CHARLES E AND CLAUDIA S DAY  
1434 SUNBEAM RD  
LEITCHFIELD, KY 42754  
D.B. 331, PG. 1  
NO ZONING
- (F) PARCEL # D84-08-00-031.DB  
LD15 LLC C/O MARK STANTON  
PO BOX 483  
LEITCHFIELD, KY 42755  
D.B. 410, PG. 479  
NO ZONING
- (G) PARCEL # D84-08-00-031.DO  
MARK STANTON  
PO BOX 483  
LEITCHFIELD, KY 42755  
D.B. 421, PG. 282  
NO ZONING
- (H) PARCEL # 084-08-00-031.OA  
CELLULAR GEN PARTNERSHIP  
PO BOX 5D12  
ELIZABETHTOWN, KY 42722  
D.B. 228, PG. 638  
NO ZONING
- (I) PARCEL # D84-08-00-031  
BRIDGETTE ALLEN  
1625 ANNETA RD  
LEITCHFIELD, KY 42754  
D.B. 388, PG. 22  
NO ZONING
- (J) PARCEL # D84-05-00-005  
MARK H AND KAY F STANTON  
STANTON REVOCABLE LIVING TRUST  
400 VICTORY HEIGHTS DR  
LEITCHFIELD, KY 42754  
D.B. 367, PG. 62  
NO ZONING
- (K) PARCEL # 084-05-00-004  
MARK H STANTON  
PO BOX 483  
LEITCHFIELD, KY 42755  
D.B. 214, PG. 446  
ND ZONING
- (L) PARCEL # D84-00-00-060.OE  
JESSE AND KENNETH DR  
C/O MARK H STANTON  
PO BOX 483  
LEITCHFIELD, KY 42755  
O.B. 244, PG. 418  
NO ZONING
- (M) PARCEL # D84-08-00-001  
PHILLIP W SMITH  
127 EAST WHITE OAK ST  
LEITCHFIELD, KY 42754  
D.B. 205, PG. 272  
NO ZONING
- (N) PARCEL # D84-08-00-004  
VICTORY HEIGHTS TEMPLE INC  
72 VICTORY HEIGHTS RD  
LEITCHFIELD, KY 42754  
D.B. 207, PG. 257  
NO ZONING

4500 OLD LAGRANGE ROAD  
RUCANER, KY 40020  
502-437-9252

**SURVEY**

REV.	DATE	DESCRIPTION
A	08.28.13	REV'D EASEMENT RADIUS
B	12.11.13	VERIFIED PVA

SITE INFORMATION:

**LEITCHFIELD SO**

397 VICTORY HEIGHTS RD  
LEITCHFIELD, KY 42754  
COUNTY: GRAYSON

SITE NUMBER:

POD NUMBER: 13-0662

DRAWN BY: CSA  
CHECKED BY: MEP  
DATE: 06.26.13

SHEET TITLE:

**500' RADIUS &  
ABUTTER'S MAP**

SHEET NUMBER:

**B-2**



**EXHIBIT N**  
**COPY OF POSTED NOTICES**

**SITE NAME: LEITCHFIELD SOUTH**  
**NOTICE SIGNS**

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

New Cingular Wireless PCS, LLC d/b/a AT&T Mobility proposes to construct a telecommunications **tower** on this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165 (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number Case No. 2013-00426 in your correspondence.

New Cingular Wireless PCS, LLC d/b/a AT&T Mobility proposes to construct a telecommunications **tower** near this site. If you have questions, please contact Pike Legal Group, PLLC, P.O. Box 369, Shepherdsville, KY 40165 (800) 516-4293, or the Executive Director, Public Service Commission, 211 Sower Boulevard, PO Box 615, Frankfort, Kentucky 40602. Please refer to docket number Case No. 2013-00426 in your correspondence.

**VIA TELEFAX: 270-230-8405**

The Grayson Record  
Attn: Shannon Dennis  
209 W. White Oak Street  
Leitchfield, KY 42754

RE: Legal Notice Advertisement  
Site Name: Leitchfield South

Dear Shannon Dennis:

Please publish the following legal notice advertisement in the next edition of *The Grayson Record*:

**NOTICE**

**New Cingular Wireless PCS, LLC, a Delaware limited liability company, d/b/a AT&T Mobility has filed an application with the Kentucky Public Service Commission ("PSC") to construct a new wireless communications facility on a site located at 397 Victory Heights Road, Leitchfield, Kentucky 42754 (37°27'38.42" North latitude, 86°17'39.27" West longitude). You may contact the PSC for additional information concerning this matter at: Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to docket number 2013-00426 in any correspondence sent in connection with this matter.**

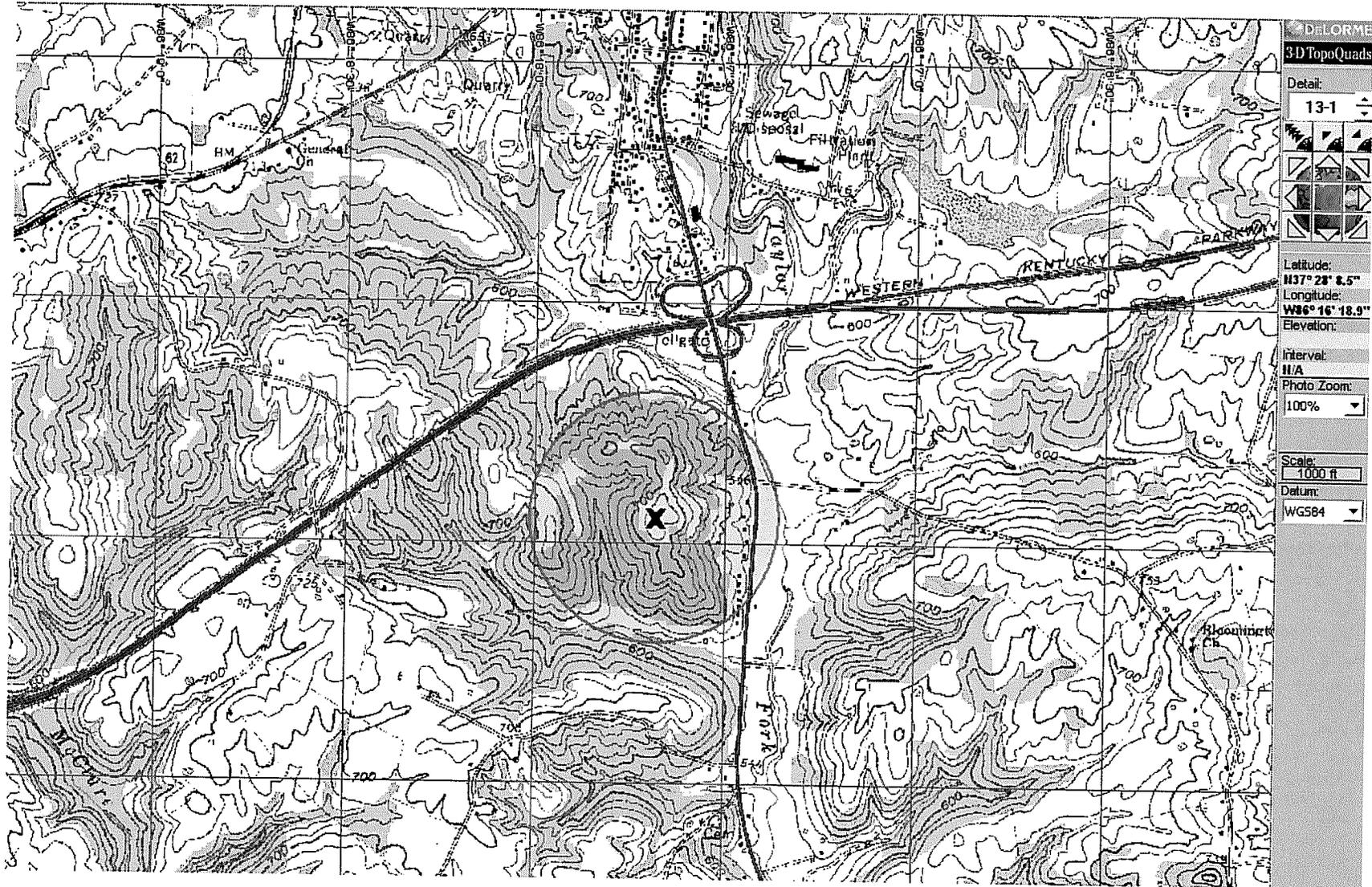
After this advertisement has been published, please forward a tearsheet copy, affidavit of publication, and invoice to Pike Legal Group, PLLC, P. O. Box 369, Shepherdsville, KY 40165. Please call me at (800) 516-4293 if you have any questions. Thank you for your assistance.

Sincerely,

Aaron L. Roof  
Pike Legal Group, PLLC



**EXHIBIT O**  
**COPY OF RADIO FREQUENCY DESIGN SEARCH AREA**



Leitchfield South: 37.459194 -86.294694