

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

RECEIVED

JAN 13 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 TRIMBLE )

CASE NO.: 2014-00001

SITE NAME: LG&E TRIMBLE

\*\*\*\*\*

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 Gills Ridge Road, just south and west of the intersection of Gills Ridge Road and Bray Ridge Road, Bedford, KY 40006 (38°33'47.21" North latitude, 85°21'51.10" 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 Jamae Pyles pursuant to an instrument recorded at Deed Book 134, Page 126 in the office of the Trimble County Clerk. The proposed WCF will consist of a 250-foot tall tower, with an approximately 15-foot tall lightning arrestor attached at the top, for a total height of 265-feet. The WCF will also include concrete foundations and a shelter or cabinets to accommodate the placement of 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 the Determination of No Hazard to Air Navigation issued by the Federal Aviation Administration ("FAA") is attached as **Exhibit F**.

12. A copy of the Kentucky Airport Zoning Commission ("KAZC") Approval to construct the tower 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 a scale of 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 rural and sparsely populated.

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:

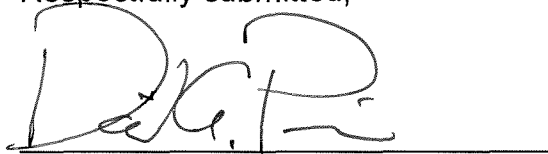
David A. Pike  
Pike Legal Group, PLLC  
1578 Highway 44 East, Suite 6  
P. O. Box 369  
Shepherdsville, KY 40165-0369  
Telephone: (502) 955-4400  
Telefax: (502) 543-4410  
Email: [dpike@pikelegal.com](mailto:dpike@pikelegal.com)

Patrick W. Turner  
General Attorney-Kentucky  
AT&T Kentucky  
1600 Williams Street  
Suite 5200  
Columbia, South Carolina 29201  
Telephone: (803) 401-2900  
Telefax: (803) 254-1731  
Email: [pt1285@att.com](mailto: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 'D. A. Pike', is written over a solid 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](mailto: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**

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

Call Sign	WPOI255	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular
<b>Market</b>			
Market	MTA026 - Louisville-Lexington-Evansvill	Channel Block	A
Submarket	19	Associated Frequencies (MHz)	001850.00000000-001865.00000000 001930.00000000-001945.00000000
<b>Dates</b>			
Grant	07/07/2005	Expiration	06/23/2015
Effective	11/24/2012	Cancellation	
<b>Buildout Deadlines</b>			
1st	06/23/2000	2nd	06/23/2005
<b>Notification Dates</b>			
1st	07/07/2000	2nd	02/17/2005
<b>Licensee</b>			
FRN	0003291192	Type	Limited Liability Company
<b>Licensee</b>			
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	
<b>Contact</b>			
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	
<b>Ownership and Qualifications</b>			
Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes
<b>Alien Ownership</b> The Applicant answered "No" to each of the Alien Ownership questions.			
<b>Basic Qualifications</b> The Applicant answered "No" to each of the Basic Qualification questions.			
<b>Tribal Land Bidding Credits</b> This license did not have tribal land bidding credits.			

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

Call Sign	KNLG923	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular
<b>Market</b>			
Market	BTA263 - Louisville, KY	Channel Block	F
Submarket	0	Associated Frequencies (MHz)	001890.00000000- 001895.00000000 001970.00000000- 001975.00000000
<b>Dates</b>			
Grant	09/28/2007	Expiration	08/21/2017
Effective	11/24/2012	Cancellation	
<b>Buildout Deadlines</b>			
1st	08/21/2002	2nd	
<b>Notification Dates</b>			
1st	10/05/2001	2nd	
<b>Licensee</b>			
FRN	0003291192	Type	Limited Liability Company
<b>Licensee</b>			
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	
<b>Contact</b>			
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	
<b>Ownership and Qualifications</b>			
Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes
<b>Alien Ownership</b> The Applicant answered "No" to each of the Alien Ownership questions.			
<b>Basic Qualifications</b> The Applicant answered "No" to each of the Basic Qualification questions.			
<b>Tribal Land Bidding Credits</b> This license did not have tribal land bidding credits.			

# PCS Broadband License - KNLF251 - New Cingular Wireless PCS, LLC

Call Sign	KNLF251	Radio Service	CW - PCS Broadband
Status	Active	Auth Type	Regular
<b>Market</b>			
Market	MTA026 - Louisville-Lexington-Evansvill	Channel Block	A
Submarket	15	Associated Frequencies (MHz)	001850.00000000- 001865.00000000 001930.00000000- 001945.00000000
<b>Dates</b>			
Grant	07/07/2005	Expiration	06/23/2015
Effective	11/24/2012	Cancellation	
<b>Buildout Deadlines</b>			
1st	06/23/2000	2nd	06/23/2005
<b>Notification Dates</b>			
1st	07/07/2000	2nd	02/18/2005
<b>Licensee</b>			
FRN	0003291192	Type	Corporation
<b>Licensee</b>			
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	
<b>Contact</b>			
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	
<b>Ownership and Qualifications</b>			
Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes
<b>Alien Ownership</b> The Applicant answered "No" to each of the Alien Ownership questions.			
<b>Basic Qualifications</b> The Applicant answered "No" to each of the Basic Qualification questions.			
<b>Tribal Land Bidding Credits</b> This license did not have tribal land bidding credits.			

# Cellular License - KNKQ391 - NEW CINGULAR WIRELESS PCS, LLC

Call Sign	KNKQ391	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular
<b>Market</b>			
Market	CMA449 - Kentucky 7 - Trimble	Channel Block	B
Submarket	0	Phase	2
<b>Dates</b>			
Grant	10/26/2010	Expiration	10/01/2020
Effective	12/09/2013	Cancellation	
<b>Five Year Buildout Date</b>			
05/14/1996			
<b>Control Points</b>			
1	2601 Palumbo Drive, Lexington, KY		
2	3503 College Drive, Jeffersontown, KY		
<b>Licensee</b>			
FRN	0003291192	Type	Limited Liability Company
<b>Licensee</b>			
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	
<b>Contact</b>			
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	
<b>Ownership and Qualifications</b>			
Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes
<b>Alien Ownership</b> The Applicant answered "No" to each of the Alien Ownership questions.			
<b>Basic Qualifications</b> The Applicant answered "No" to each of the Basic Qualification questions.			
<b>Demographics</b>			
Race			
Ethnicity		Gender	

# Cellular License - KNKQ288 - New Cingular Wireless PCS, LLC

Call Sign	KNKQ288	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular
<b>Market</b>			
Market	CMA449 - Kentucky 7 - Trimble	Channel Block	B
Submarket	0	Phase	2
<b>Dates</b>			
Grant	08/30/2011	Expiration	10/01/2021
Effective	11/12/2013	Cancellation	
<b>Five Year Buildout Date</b>			
01/22/1997			
<b>Control Points</b>			
1	2000 W. Ameritech Center Dr., COOK, Hoffman Estates, IL P: (847)765-8723		
<b>Licensee</b>			
FRN	0003291192	Type	Limited Liability Company
<b>Licensee</b>			
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	
<b>Contact</b>			
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	
<b>Ownership and Qualifications</b>			
Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes
<b>Alien Ownership</b>			
The Applicant answered "No" to each of the Alien Ownership questions.			
<b>Basic Qualifications</b>			
The Applicant answered "No" to each of the Basic Qualification questions.			
<b>Demographics</b>			
Race			
Ethnicity		Gender	



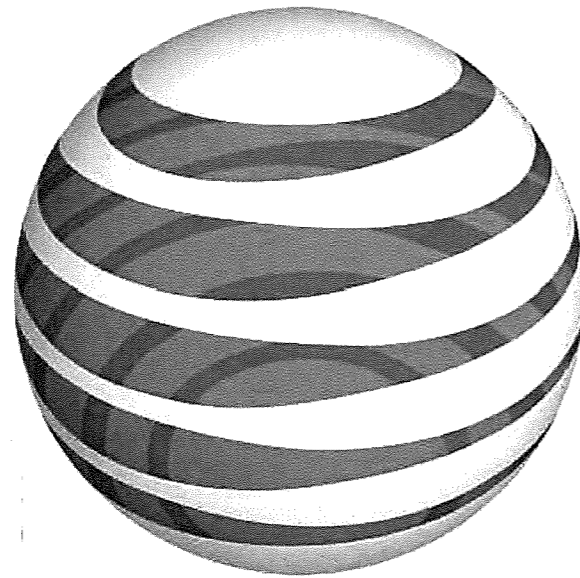
# Cellular License - KNKQ255 - NEW CINGULAR WIRELESS PCS, LLC

Call Sign	KNKQ255	Radio Service	CL - Cellular
Status	Active	Auth Type	Regular
<b>Market</b>			
Market	CMA449 - Kentucky 7 - Trimble	Channel Block	B
Submarket	0	Phase	2
<b>Dates</b>			
Grant	10/26/2010	Expiration	10/01/2020
Effective	04/26/2013	Cancellation	
<b>Five Year Buildout Date</b>			
05/14/1996			
<b>Control Points</b>			
1	3503 COLLEGE DRIVE, JEFFERSONTOWN, KY		
<b>Licensee</b>			
FRN	0003291192	Type	Limited Liability Company
<b>Licensee</b>			
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	
<b>Contact</b>			
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	
<b>Ownership and Qualifications</b>			
Radio Service Type	Mobile		
Regulatory Status	Common Carrier	Interconnected	Yes
<b>Alien Ownership</b> The Applicant answered "No" to each of the Alien Ownership questions.			
<b>Basic Qualifications</b> The Applicant answered "No" to each of the Basic Qualification questions.			
<b>Demographics</b>			
Race			
Ethnicity		Gender	

**EXHIBIT B**

**SITE DEVELOPMENT PLAN:**

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



# at&t

SITE NAME:

SITE NUMBER

## LG&E TRIMBLE

## KYLSU1534

PROPOSED RAWLAND SITE WITH NEW  
250FT SELF SUPPORT TOWER  
WITH A 15' LIGHTNING ARRESTOR



Know what's below.  
Call before you dig.

**SHEET INDEX**

- T-1 TITLE SHEET
- SURVEY:**
  - B-1 SITE SURVEY
  - B-2 500' RADIUS & ABUTTER'S MAP
- CIVIL:**
  - C-1 OVERALL SITE LAYOUT
  - C-2 OVERALL SITE LAYOUT - CONT'D
  - C-3 ENLARGED COMPOUND LAYOUT
  - C-4 TOWER ELEVATION

**CONTACT INFORMATION**

- FIRE DEPARTMENT**  
BEDFORD FIRE DEPARTMENT  
PHONE: (502) 255-7529
- POLICE DEPARTMENT**  
TRIMBLE COUNTY SHERIFF  
PHONE: (502) 255-7138
- ELECTRIC COMPANY**  
SHELBY ENERGY COOP  
PHONE: (502) 633-4420
- TELEPHONE COMPANY**  
AT&T KENTUCKY  
PHONE: (502) 582-8601

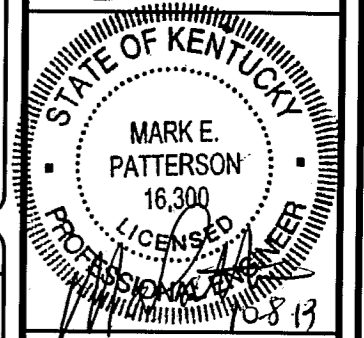
**BUILDING CODES AND STANDARDS**

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

CONTRACTOR'S WORK SHALL COMPLY WITH THE LATEST EDITION OF THE FOLLOWING STANDARDS:

- AMERICAN CONCRETE INSTITUTE 318
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION
- TELECOMMUNICATIONS INDUSTRY ASSOCIATION TIA-222
- STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWER AND SUPPORTING STRUCTURES TIA-601
- COMMERCIAL BUILDING GROUNDING AND BONDING REQUIREMENTS FOR TELECOMMUNICATIONS
- INSTITUTE FOR ELECTRICAL AND ELECTRONICS ENGINEERS IEEE-81, IEEE 1100, IEEE C62.41
- ANSI T1.311, FOR TELECOM - DC POWER SYSTEMS - TELECOM, ENVIRONMENTAL PROTECTION
- 2012 IBC
- 2011 NEC

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



**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
1	09.18.13	SURVEY - BOUNDARY

**SITE INFORMATION:**

**LG&E TRIMBLE**

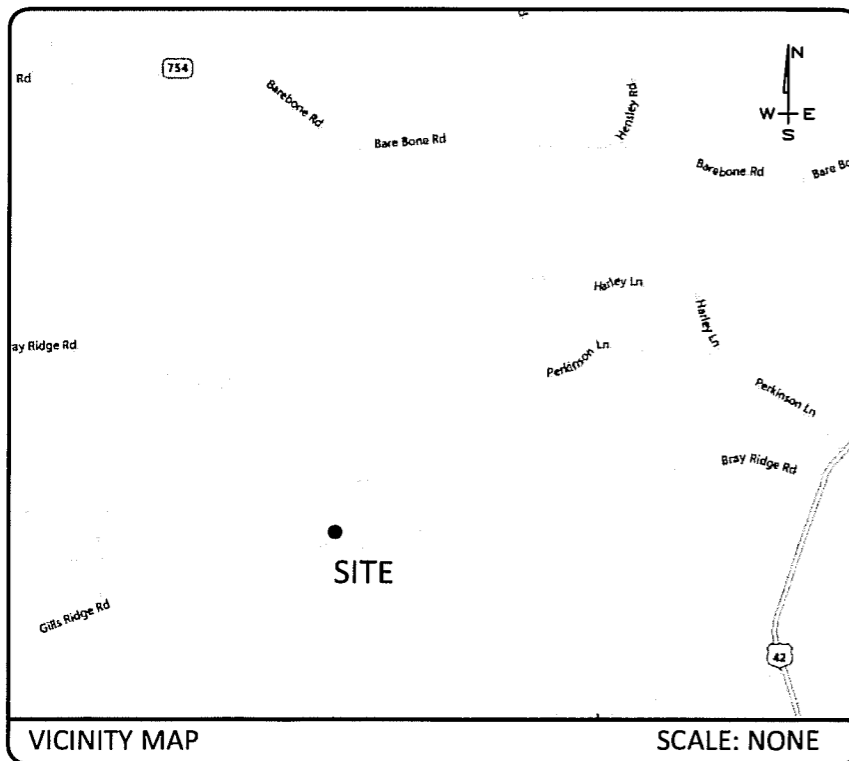
GILLS RIDGE ROAD  
BEDFORD, KY 40006

SITE NUMBER:  
KYLSU1534

POD NUMBER: 13-0749  
DRAWN BY: CMD  
CHECKED BY: MEP  
DATE: 08.20.13

SHEET TITLE:  
**TITLE SHEET AND PROJECT INFORMATION**

SHEET NUMBER:  
**T-1**



**DRIVE DIRECTIONS**

FROM TRIMBLE COUNTY CLERK, 30 HIGHWAY 42 E, BEDFORD, KY:

- DEPART US-42 / MAIN ST TOWARD US-421 2.1 MI
- TURN RIGHT ONTO BRAY RIDGE RD 1.6 MI
- TURN LEFT ONTO GILLS RIDGE RD 0.4 MI

ARRIVE AT SITE (ON RIGHT)

**PROJECT INFORMATION**

COUNTY: TRIMBLE

SITE ADDRESS: GILLS RIDGE ROAD  
BEDFORD, KY 40006

APPLICANT: AT&T  
601 WEST CHESTNUT STREET  
LOUISVILLE, KY 40203

LATITUDE: 38° 33' 47.21"  
LONGITUDE: -85° 21' 51.10"

**SCOPE OF WORK:**

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

SITE WORK: NEW SELF SUPPORT TOWER, UNMANNED EQUIPMENT SHELTER AND GENERATOR ON A CONCRETE FOUNDATIONS, AND UTILITY INSTALLATIONS.

DEPARTMENT	NAME / SIGNATURE	DATE
LAND/TOWER OWNER		
SITE ACQUISITION AGENT		
ZONING/PERMITTING AGENT		
A&E MANAGER		
CONSTRUCTION MANAGER		
RF ENGINEER		

**LEGAL DESCRIPTIONS**

THE FOLLOWING IS A DESCRIPTION OF AN AREA TO BE LEASED FROM THE PROPERTY OF JAMAE PYLES, WHICH IS MORE PARTICULARLY DESCRIBED AS FOLLOWS:

**PROPOSED LEASE AREA**

BEGINNING AT A FOUND 1/2" REBAR CAPPED "BATTS PLS 2119" IN THE NORTH RIGHT-OF-WAY LINE OF GILLS RIDGE ROAD AND THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO JENNIFER LOUDEN & SHAWN KELLEY AS RECORDED IN DEED BOOK 130, PAGE 69, IN THE OFFICE OF THE CLERK OF TRIMBLE COUNTY, KENTUCKY; THENCE WITH SAID RIGHT-OF-WAY LINE, S 84°04'41" E - 200.00' TO A POINT IN THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO JAMAE PYLES AS RECORDED IN WILL BOOK 4, PAGE 380 IN AFORESAID CLERK'S OFFICE; THENCE CONTINUING WITH SAID RIGHT-OF-WAY LINE, S 84°33'58" E - 307.58' TO A SET 1/2" REBAR WITH A CAP STAMPED "PATTERSON PLS 3136"; THENCE TRAVERSING SAID PYLES PROPERTY, N 09°18'24" E - 56.01' TO A SET 1/2" REBAR WITH A CAP STAMPED "PATTERSON PLS 3136"; THENCE S 80°41'36" E - 85.00' TO A SET 1/2" REBAR WITH A CAP STAMPED "PATTERSON PLS 3136"; THENCE N 09°18'24" E - 15.00' TO A SET 1/2" REBAR WITH A CAP STAMPED "PATTERSON PLS 3136"; AND THE TRUE POINT OF BEGINNING OF THE PROPOSED LEASE AREA; THENCE N 80°41'36" W - 100.00' TO A SET 1/2" REBAR WITH A CAP STAMPED "PATTERSON PLS 3136"; THENCE N 09°18'24" E - 100.00' TO A SET 1/2" REBAR WITH A CAP STAMPED "PATTERSON PLS 3136"; THENCE S 80°41'36" E - 100.00' TO A SET 1/2" REBAR WITH A CAP STAMPED "PATTERSON PLS 3136"; THENCE S 09°18'24" W - 100.00' TO THE TRUE POINT OF BEGINNING CONTAINING 10,000 SQ. FT. AS PER SURVEY BY MARK PATTERSON, LPLS #3136 WITH POWER OF DESIGN GROUP, DATED JULY 23, 2013.

**CENTERLINE PROPOSED 30' ACCESS & UTILITY EASEMENT**

BEGINNING AT A FOUND 1/2" REBAR CAPPED "BATTS PLS 2119" IN THE NORTH RIGHT-OF-WAY LINE OF GILLS RIDGE ROAD AND THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO JENNIFER LOUDEN & SHAWN KELLEY AS RECORDED IN DEED BOOK 130, PAGE 69, IN THE OFFICE OF THE CLERK OF TRIMBLE COUNTY, KENTUCKY; THENCE WITH SAID RIGHT-OF-WAY LINE, S 84°04'41" E - 200.00' TO A POINT IN THE SOUTHWEST CORNER OF THE PROPERTY CONVEYED TO JAMAE PYLES AS RECORDED IN WILL BOOK 4, PAGE 380 IN AFORESAID CLERK'S OFFICE; THENCE CONTINUING WITH SAID RIGHT-OF-WAY LINE, S 84°33'58" E - 307.58' TO A SET 1/2" REBAR WITH A CAP STAMPED "PATTERSON PLS 3136"; THENCE TRAVERSING SAID PYLES PROPERTY, N 09°18'24" E - 56.01' TO A SET 1/2" REBAR WITH A CAP STAMPED "PATTERSON PLS 3136"; THENCE S 80°41'36" E - 85.00' TO A SET 1/2" REBAR WITH A CAP STAMPED "PATTERSON PLS 3136"; AND THE END OF SAID EASEMENT AS PER SURVEY BY MARK PATTERSON, LPLS #3136 WITH POWER OF DESIGN GROUP, DATED JULY 23, 2013.

**GENERAL NOTES**

BASIS OF BEARING IS GPS OBSERVATIONS COMPLETED ON JULY 10, 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.

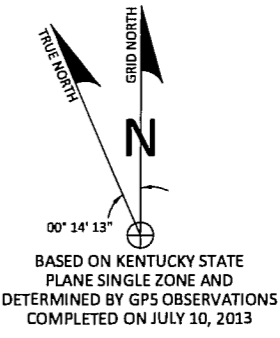
THIS DRAWING IS NOT INTENDED FOR LAND TRANSFER.

**TITLE OF COMMITMENT**

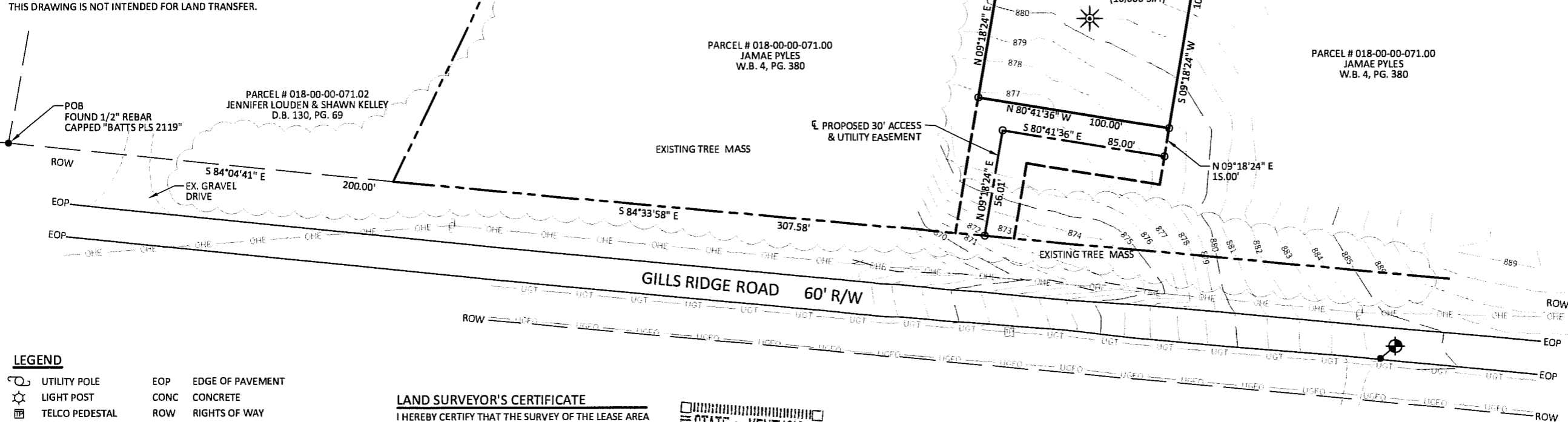
THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY POD GROUP, LLC. AND AS SUCH WE ARE NOT RESPONSIBLE FOR THE INVESTIGATION OR INDEPENDENT SEARCH FOR EASEMENTS OF RECORD, ENCUMBRANCES, RESTRICTIVE COVENANTS, OWNERSHIP TITLE EVIDENCE, UNRECORDED EASEMENTS, AUGMENTING EASEMENTS, IMPLIED OR PRESCRIPTIVE 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. 2013204, DATED JULY 8, 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.)
- ITEM 4: ANY LIEN, OR RIGHT TO A LIEN, FOR SERVICES, LABOR, OR MATERIAL HERETOFORE OF HEREFTER 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: MINOR PLAT AS SET FORTH IN DEED DATED JUNE 20, 2005, OF RECORD IN DEED BOOK D111, PAGE 272, IN THE OFFICE AFORESAID. (THE MINOR PLAT IN DEED BOOK D111, PAGE 272, IS NOT APPLICABLE TO LEASE AREA OR ACCESS EASEMENT.)
- ITEM 7: RIGHT OF WAY EASEMENT DATED APRIL 17, 1974, TO SOUTH CENTRAL BELL TELEPHONE COMPANY, OF RECORD IN DEED BOOK 49, PAGE 562, IN THE OFFICE AFORESAID. (THE EASEMENT PER DEED BOOK 49, PAGE 562, IS NOT APPLICABLE TO THE LEASE AREA OR ACCESS EASEMENT.)
- ITEM 8: RIGHT OF WAY EASEMENT DATED MARCH 18, 1980, TO TRIMBLE COUNTY WATER DISTRICT #1, OF RECORD IN DEED BOOK 55, PAGE 773, IN THE OFFICE AFORESAID. (THE EASEMENT PER DEED BOOK 55, PAGE 773, IS UNPLOTTED PER DEED DESCRIPTION.)
- ITEM 9: RIGHT OF WAY EASEMENT DATED MAY 11, 1992, TO SHELBY RURAL ELECTRIC COMPANY, OF RECORD IN DEED BOOK 73, PAGE 440, IN THE OFFICE AFORESAID. (THE EASEMENT PER DEED BOOK 73, PAGE 440, IS NOT APPLICABLE TO THE LEASE AREA OR ACCESS EASEMENT.)
- ITEM 10: GRANT OF EASEMENT DATED DECEMBER 17, 2004, TO LOUISVILLE GAS AND ELECTRIC COMPANY, OF RECORD IN DEED BOOK D110, PAGE 363, IN THE OFFICE AFORESAID. (THE EASEMENT PER DEED BOOK D110, PAGE 363, IS NOT APPLICABLE TO THE LEASE AREA OR ACCESS EASEMENT.)
- ITEM 11: RESERVATION FOR INGRESS AND EGRESS AS SET FORTH IN DEED DATED JUNE 20, 2005, OF RECORD IN DEED BOOK D111, PAGE 272, IN THE OFFICE AFORESAID. (INGRESS AND EGRESS TO PEND IN DEED BOOK D111, PAGE 272, IS NOT APPLICABLE TO LEASE AREA OR ACCESS EASEMENT.)
- ITEM 12: RESTRICTION AS SET FORTH IN DEED DATED JUNE 20, 2005, OF RECORD IN DEED BOOK D111, PAGE 272, IN THE OFFICE AFORESAID. (RESTRICTIONS IN DEED BOOK D111, PAGE 272, ARE NOT APPLICABLE TO THE LEASE AREA OR ACCESS EASEMENT.)
- ITEM 13: MINERALS OF WHATSOEVER KIND, SUBSURFACE AND SURFACE SUBSTANCE, INCLUDING BUT NOT LIMITED TO COAL, LIGNITE, OIL, GAS, URANIUM, CLAY, ROCK, SAND AND GRAVEL IN, ON, UNDER AND THAT MAY BE PRODUCED FROM THE LAND, TOGETHER WITH ALL RIGHTS, PRIVILEGES, AND IMMUNITIES RELATING THERETO, WHETHER OR NOT APPEARING IN THE PUBLIC RECORDS OR LISTED IN SCHEDULE B. THE COMPANY MAKES NO REPRESENTATION AS TO THE PRESENT OWNERSHIP OF ANY SUCH INTERESTS. THERE MAY BE LEASES, GRANTS, EXCEPTIONS OR RESERVATIONS OF INTERESTS THAT ARE NOT LISTED. (POD GROUP, LLC. DID NOT EXAMINE OR ADDRESS THIS ITEM.)



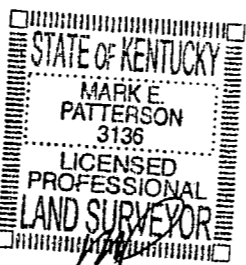
- TEMPORARY BENCHMARK  
NORTHING: 4092802.09  
EASTING: 5031717.45  
ELEVATION: 884.26'  
LOCATION: BEING A SET PK NAIL LOCATED 0.5' N. OF THE SOUTH EDGE OF PVMT. OF GILLS RIDGE ROAD AND SE. 27'± FROM AN EX. POWER POLE ON THE NORTH SIDE OF GILLS RIDGE ROAD.
- FAA COORDINATE POINT  
NAD 83  
LATITUDE: 38° 33' 47.21"  
LONGITUDE: 85° 21' 51.10"  
NAVD 88  
ELEVATION: 881' AMSL  
NORTHING: 4092980.68  
EASTING: 5031566.74



**LEGEND**

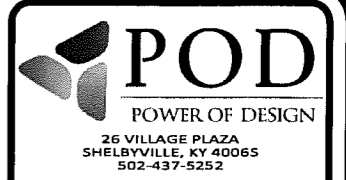
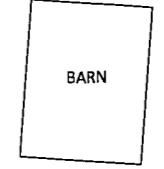
	UTILITY POLE		EOP	EDGE OF PAVEMENT
	LIGHT POST		CONC	CONCRETE
	TELCO PEDESTAL		ROW	RIGHTS OF WAY
	TRANSFORMER		POB	POINT OF BEGINNING
	GUY WIRE		IPC	IRON PIN CAPPED
	OHE		EX. OHE	EX. OVERHEAD ELECTRIC
	OHE & T		EX. OHE & T	EX. OVERHEAD ELECTRIC & TELEPHONE
	UGT		EX. UGT	EX. UNDERGROUND TELEPHONE
	X		EX. X	EX. FENCE LINE
	- - -		EX. - - -	EX. DITCH
	○		○	SET 1/2" REBAR 18" LONG (UNLESS OTHERWISE NOTED)
	●		●	FOUND MONUMENT AS NOTED

**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 FOR THE LEASE AREA 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 E. Patterson* 10-8-13  
MARK E. PATTERSON, LPLS #3136 DATE



**FLOOD NOTE**  
THE PROPOSED LEASE AREA SHOWN HEREON IS NOT LOCATED IN A 100-YEAR FLOOD PLAIN PER FLOOD HAZARD BOUNDARY MAP, COMMUNITY-PANEL NUMBER 21223C0125C, DATED MARCH 18, 2008. THE PROPOSED LEASE AREA IS LOCATED IN ZONE X.

**SITE INFORMATION**  
TAX PARCEL NUMBER: D18-00-00-071.00  
PROPERTY OWNER: JAMAE PYLES  
196 BRAY RIDGE ROAD  
BEDFORD, KY 40006  
SOURCE OF TITLE: W.B. 4, PG. 380



**SURVEY**

REV.	DATE	DESCRIPTION
A	09.18.13	BOUNDARY
0	10.08.13	ISSUED AS FINAL

**SITE INFORMATION:**  
LG&E TRIMBLE  
GILLS RIDGE ROAD  
BEDFORD, KY 40006

**SITE NUMBER:**  
KYSU1534

**POD NUMBER:** 13-0747  
**DRAWN BY:** DSR  
**CHECKED BY:** MEP  
**DATE:** 07.23.13

**SHEET TITLE:**  
SITE SURVEY  
**SHEET NUMBER:**  
B-1



**EXHIBIT**

REV.	DATE	DESCRIPTION
A	09.18.13	SURVEY - BOUNDARY
B	12.26.13	PVA VERIFIED
C	12.27.13	SURVEY TO EXHIBIT & NOTES/CERTIFICATE

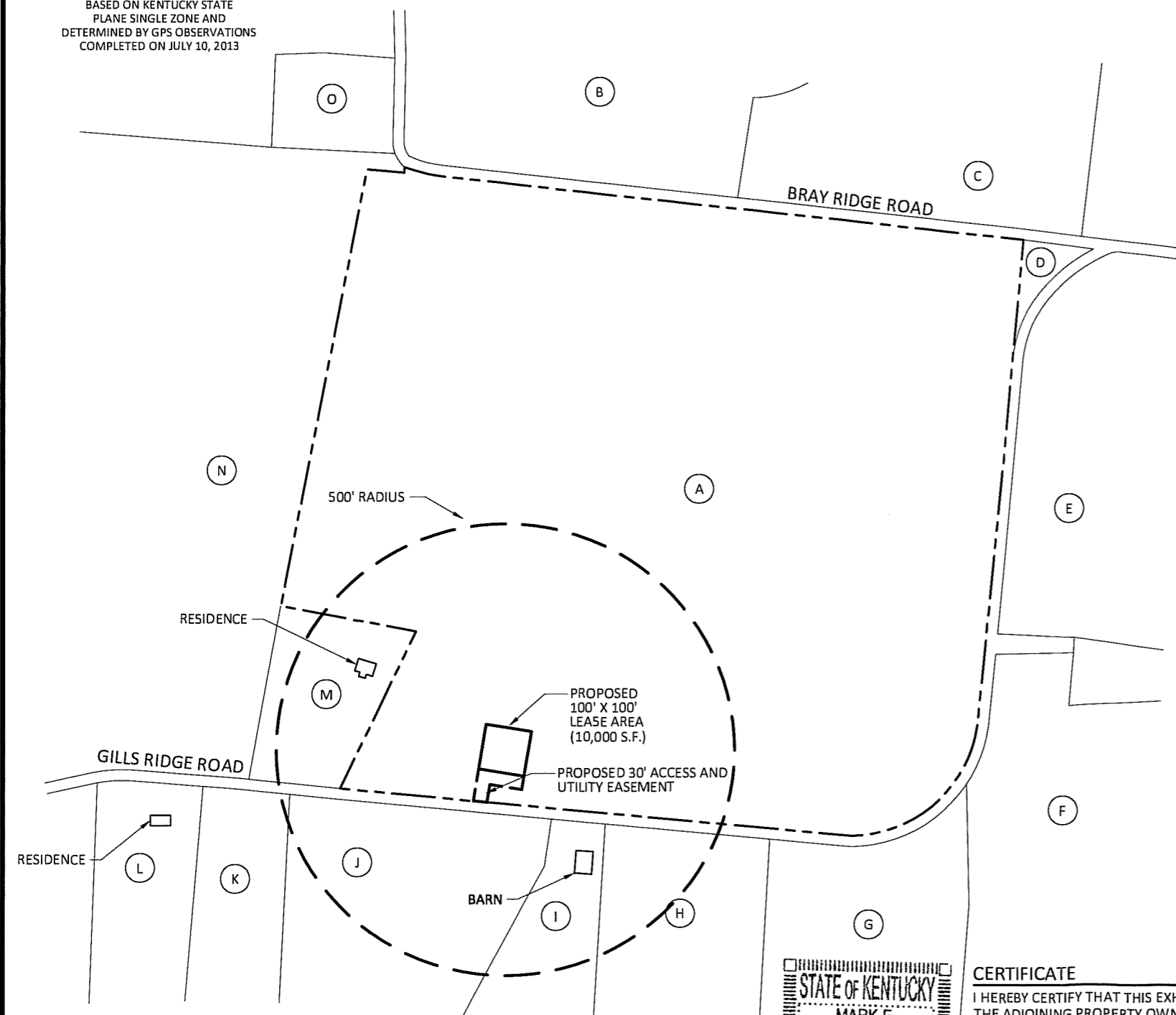
SITE INFORMATION:  
**LG&E TRIMBLE**  
GILLS RIDGE ROAD  
BEDFORD, KY 40006  
COUNTY: TRIMBLE

SITE NUMBER:  
KYSU1534

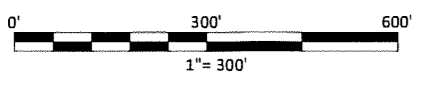
POD NUMBER: 13-0748  
DRAWN BY: CSA  
CHECKED BY: MEP  
DATE: 07.16.13

SHEET TITLE:  
**500' RADIUS & ABUTTER'S MAP**  
SHEET NUMBER:  
**B-2**

TRUE NORTH  
GRID NORTH  
00° 14' 13"  
BASED ON KENTUCKY STATE PLANE SINGLE ZONE AND DETERMINED BY GPS OBSERVATIONS COMPLETED ON JULY 10, 2013



- (A) PARCEL # 018-00-00-071.00  
PYLES, JAMAE BRAY  
196 BRAY RIDGE ROAD  
BEDFORD, KY 40006  
D.B. 134, PG. 126  
NO ZONING
- (B) PARCEL # 018-00-00-068.00  
BRAY, NILES AND BETTY LOU  
1568 BRAY RIDGE ROAD  
BEDFORD, KY 40006  
D.B. 87, PG. 683  
NO ZONING
- (C) PARCEL # 018-00-00-062.00  
BRAY, NILES AND BETTY LOU  
1568 BRAY RIDGE ROAD  
BEDFORD, KY 40006  
D.B. 87, PG. 683  
NO ZONING
- (D) PARCEL # 018-00-00-059.01  
PYLES, JIM  
852 BRAY RIDGE ROAD  
BEDFORD, KY 40006  
D.B. 123, PG. 159  
NO ZONING
- (E) PARCEL # 018-00-00-059.00  
BRAY, TERRY W AND EARLENE  
1111 BRAY RIDGE ROAD  
BEDFORD, KY 40006  
D.B. 121, PG. 711  
NO ZONING
- (F) PARCEL # 019-00-00-002.00  
DATTILO, AUGUST JR AND JOYCE  
215 OXFORD PLACE  
LOUISVILLE, KY 40207  
D.B. 67, PG. 70  
NO ZONING
- (G) PARCEL # 019-00-00-004.09  
RAND, REGINALD W JR AND VICKY P  
307 GILLS RIDGE ROAD  
BEDFORD, KY 40006  
D.B. 104, PG. 516  
NO ZONING
- (H) PARCEL # 019-00-00-004.08  
SMITH, DENNIS RAY  
1016 AUDUBON PARKWAY  
LOUISVILLE, KY 40213  
D.B. 102, PG. 650  
NO ZONING
- (I) PARCEL # 019-00-00-004.07  
CARTER, DARREN M  
909 HENRY CLAY STREET  
SHELBYVILLE, KY 40065  
D.B. 103, PG. 551  
NO ZONING
- (J) PARCEL # 019-00-00-004.06  
SMITH, DENNIS RAY  
1016 AUDUBON PARKWAY  
LOUISVILLE, KY 40213  
D.B. 116, PG. 726  
NO ZONING
- (K) PARCEL # 019-00-00-004.05  
PYLES, JAMAE  
196 BRAY RIDGE ROAD  
BEDFORD, KY 40006  
D.B. WB4, PG. 380  
NO ZONING
- (L) PARCEL # 019-00-00-004.04  
CASEY, HELEN MAYS  
7006 SHALLOW LAKE ROAD  
PROSPECT, KY 40059  
D.B. 117, PG. 709  
NO ZONING
- (M) PARCEL # 018-00-00-071.02  
JENIFER LOUDEN AND SHAWN KELLEY  
540 GILLS RIDGE ROAD  
BEDFORD, KY 40006  
D.B. 130, PG. 069  
NO ZONING
- (N) PARCEL # 018-00-00-071.01  
BRAY, NILES AND BETTY K  
1568 BRAY RIDGE ROAD  
BEDFORD, KY 40006  
D.B. 111, PG. 272  
NO ZONING
- (O) PARCEL # 018-00-00-064.00  
GILLEN, PATRICK D  
1901 BRAY RIDGE ROAD  
BEDFORD, KY 40006  
D.B. 124, PG. 624  
NO ZONING

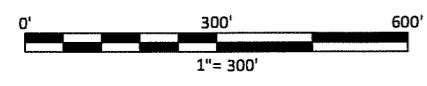
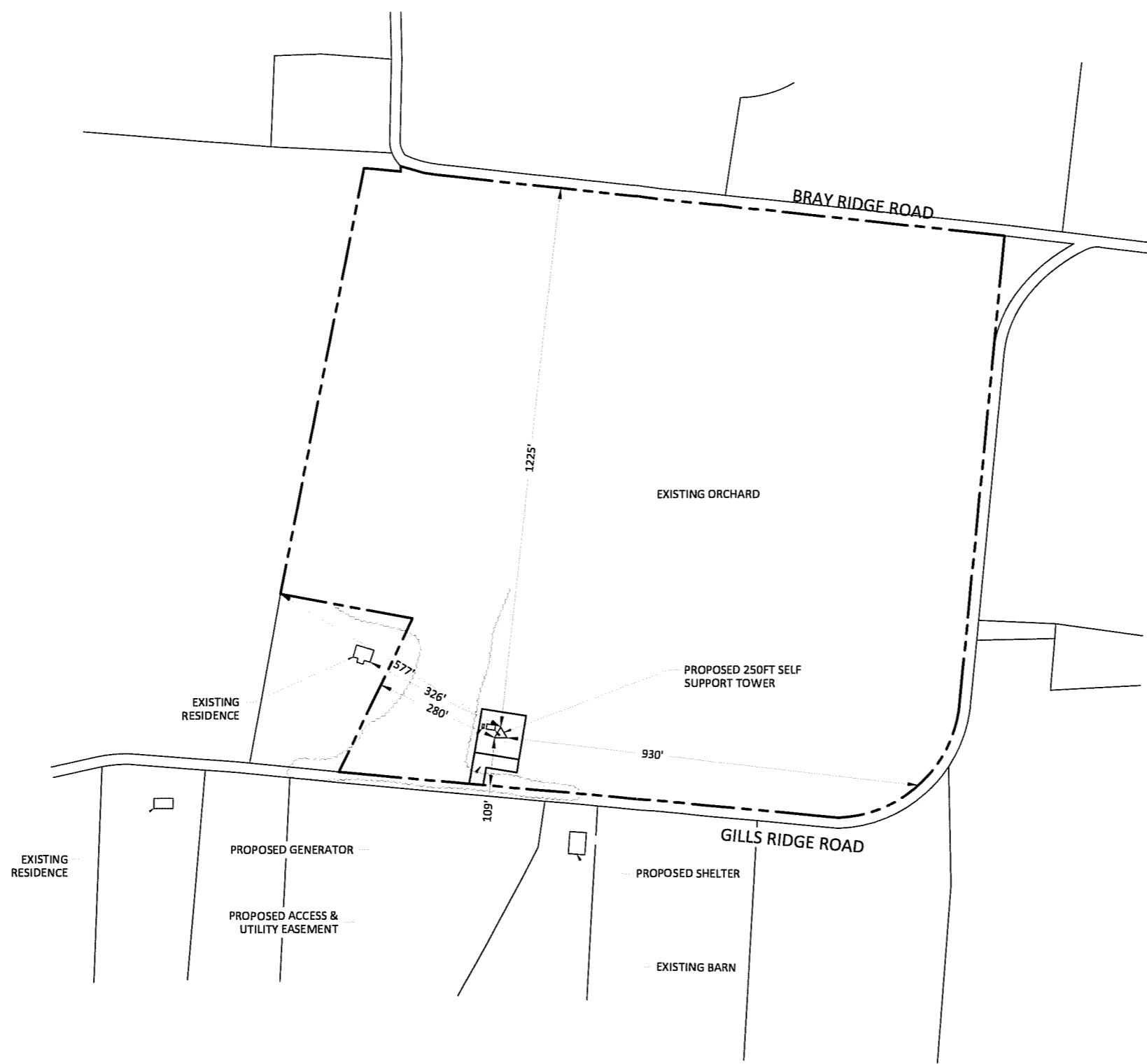
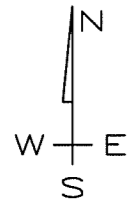


STATE OF KENTUCKY  
MARK E. PATTERSON  
3136  
LICENSED PROFESSIONAL LAND SURVEYOR

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

**GENERAL NOTE:**

- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE TRIMBLE COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON 7.10.13 AND UPDATED ON 12.26.13. 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.



- (P) LEASE LINE
- (P) ELECTRIC
- (P) TELEPHONE
- (P) FENCE
- (E) PROPERTY LINE
- (E) EDGE OF PAVEMENT
- (E) RIGHT OF WAY
- (E) FENCE
- (E) OVERHEAD ELECTRIC
- (E) LOT LINES

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

**fmhc**

**at&t**

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

**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
1	09.18.13	SURVEY - BOUNDARY

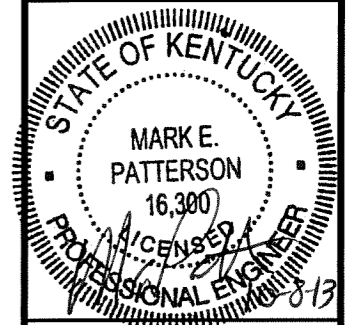
SITE INFORMATION:  
**LG&E TRIMBLE**  
GILLS RIDGE ROAD  
BEDFORD, KY 40006

SITE NUMBER:  
KYSU1534

POD NUMBER: 13-0749  
DRAWN BY: CMD  
CHECKED BY: MEP  
DATE: 08.20.13

SHEET TITLE:  
**OVERALL SITE LAYOUT**

SHEET NUMBER:  
**C-1**



**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
1	09.18.13	SURVEY - BOUNDARY

SITE INFORMATION:

**LG&E TRIMBLE**

GILLS RIDGE ROAD  
BEDFORD, KY 40006

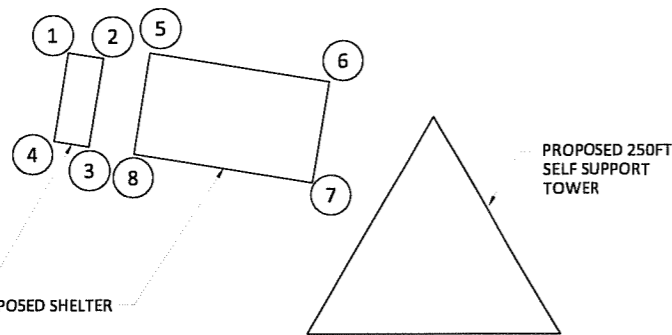
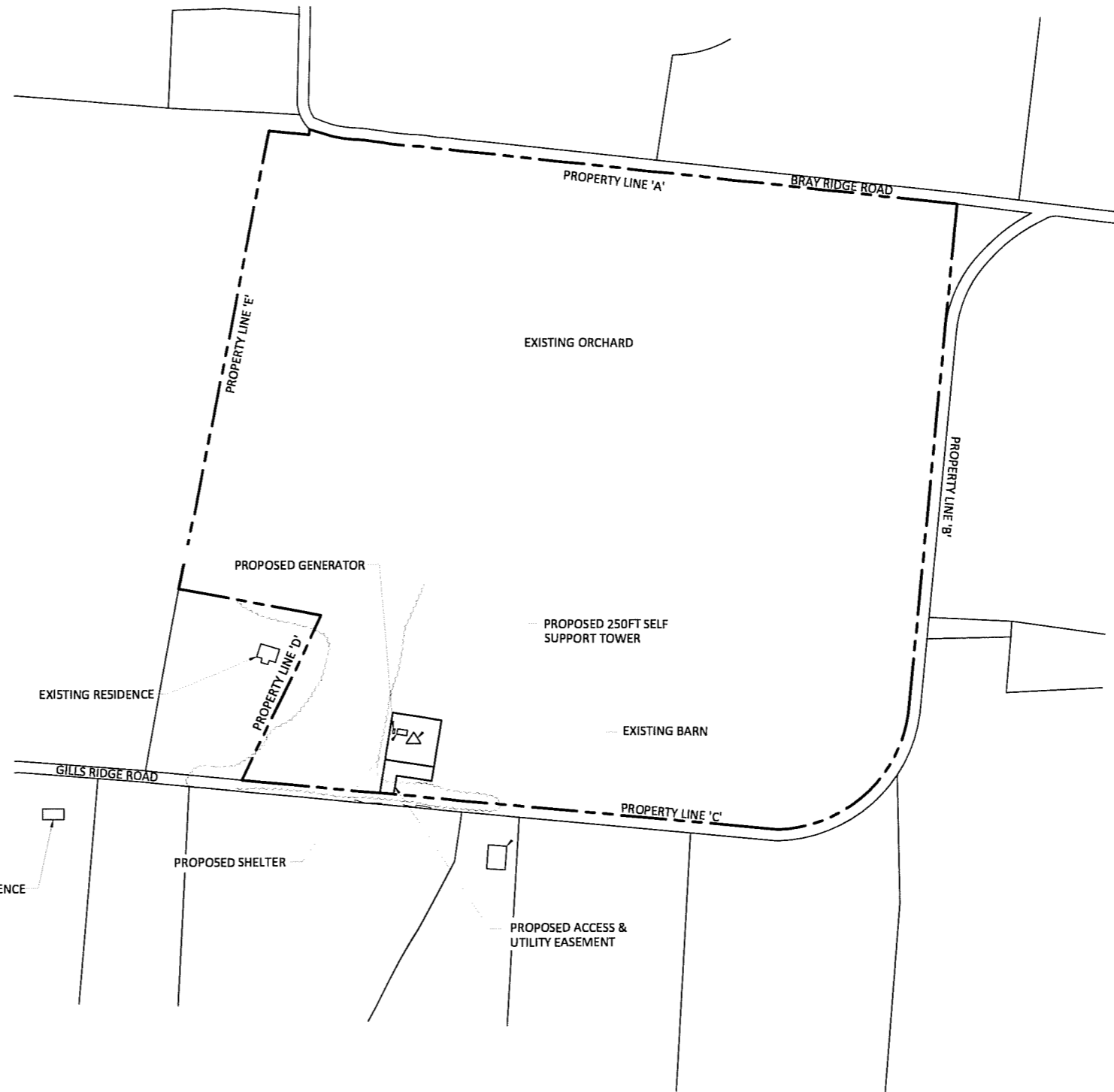
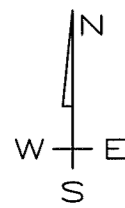
SITE NUMBER:  
KYSU1534

POD NUMBER: 13-0749  
DRAWN BY: CMD  
CHECKED BY: MEP  
DATE: 08.20.13

SHEET TITLE:

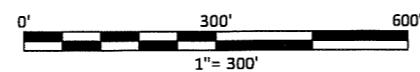
**OVERALL SITE LAYOUT-CONT'D**

SHEET NUMBER:  
**C-2**

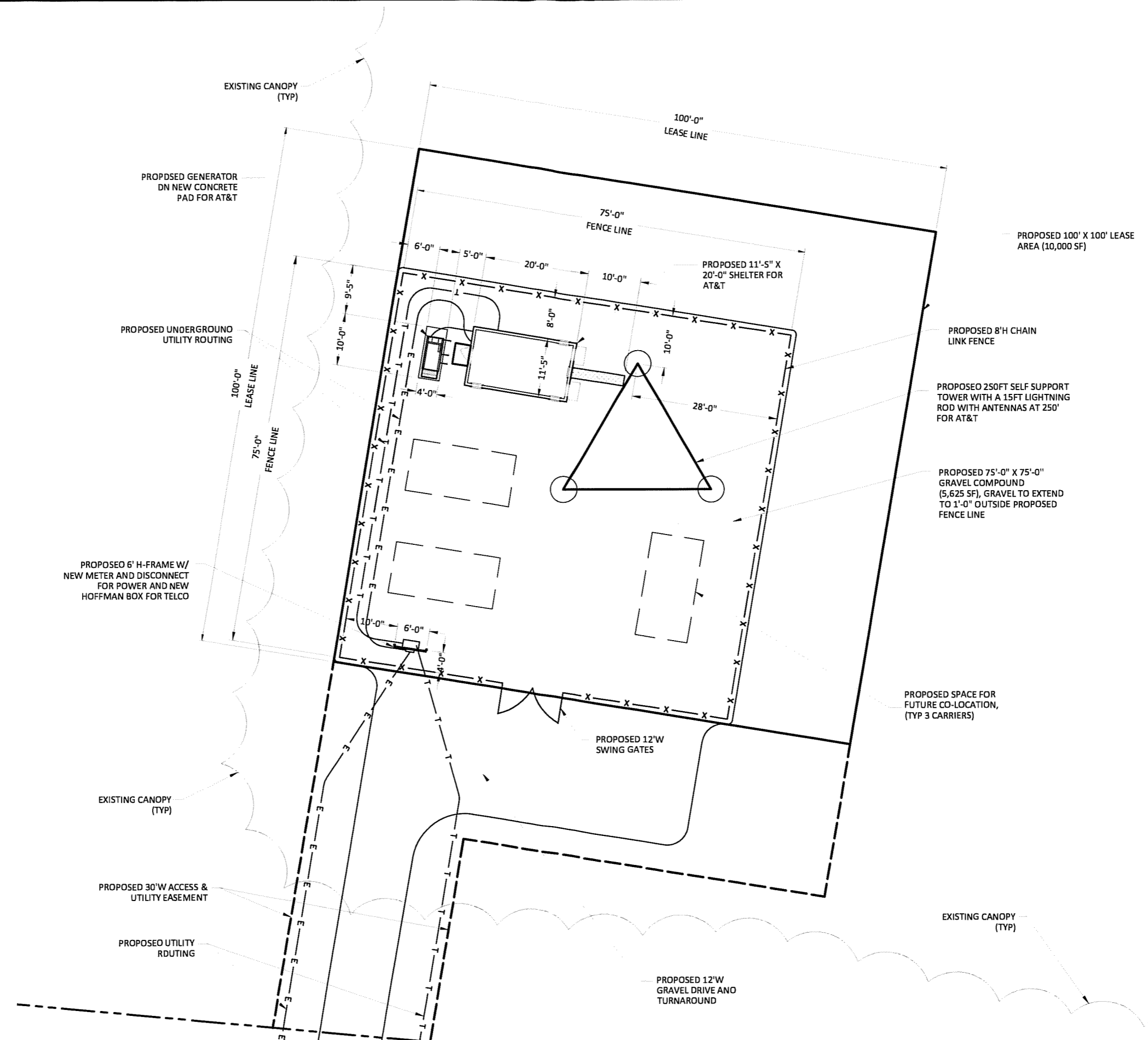
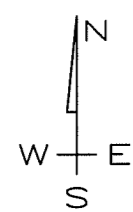


**EQUIPMENT ENLARGEMENT**  
NTS

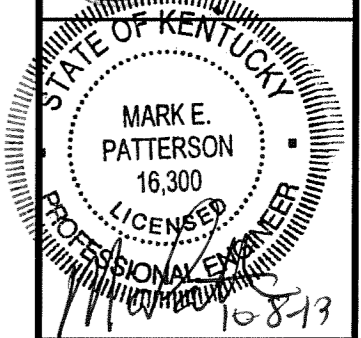
PROPERTY LINE	EQUIPMENT	DISTANCE
A	1	1223'
A	5	1221'
B	2	984'
B	6	959'
C	3	130'
C	7	126'
D	1	244'
D	8	255'
E	1	539'
E	5	547'



- (P) LEASE LINE
- (P) ELECTRIC
- (P) TELEPHONE
- (P) FENCE
- (E) PROPERTY LINE
- (E) EDGE OF PAVEMENT
- (E) RIGHT OF WAY
- (E) FENCE
- (E) OVERHEAD ELECTRIC
- (E) LOT LINES



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



**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
1	09.18.13	SURVEY - BOUNDARY

**SITE INFORMATION:**

**LG&E TRIMBLE**

GILLS RIDGE ROAD  
BEDFORD, KY 40006

SITE NUMBER:  
KYSU1534

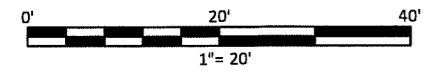
POD NUMBER: 13-0749

DRAWN BY: CMO  
CHECKED BY: MEP  
DATE: 08.20.13

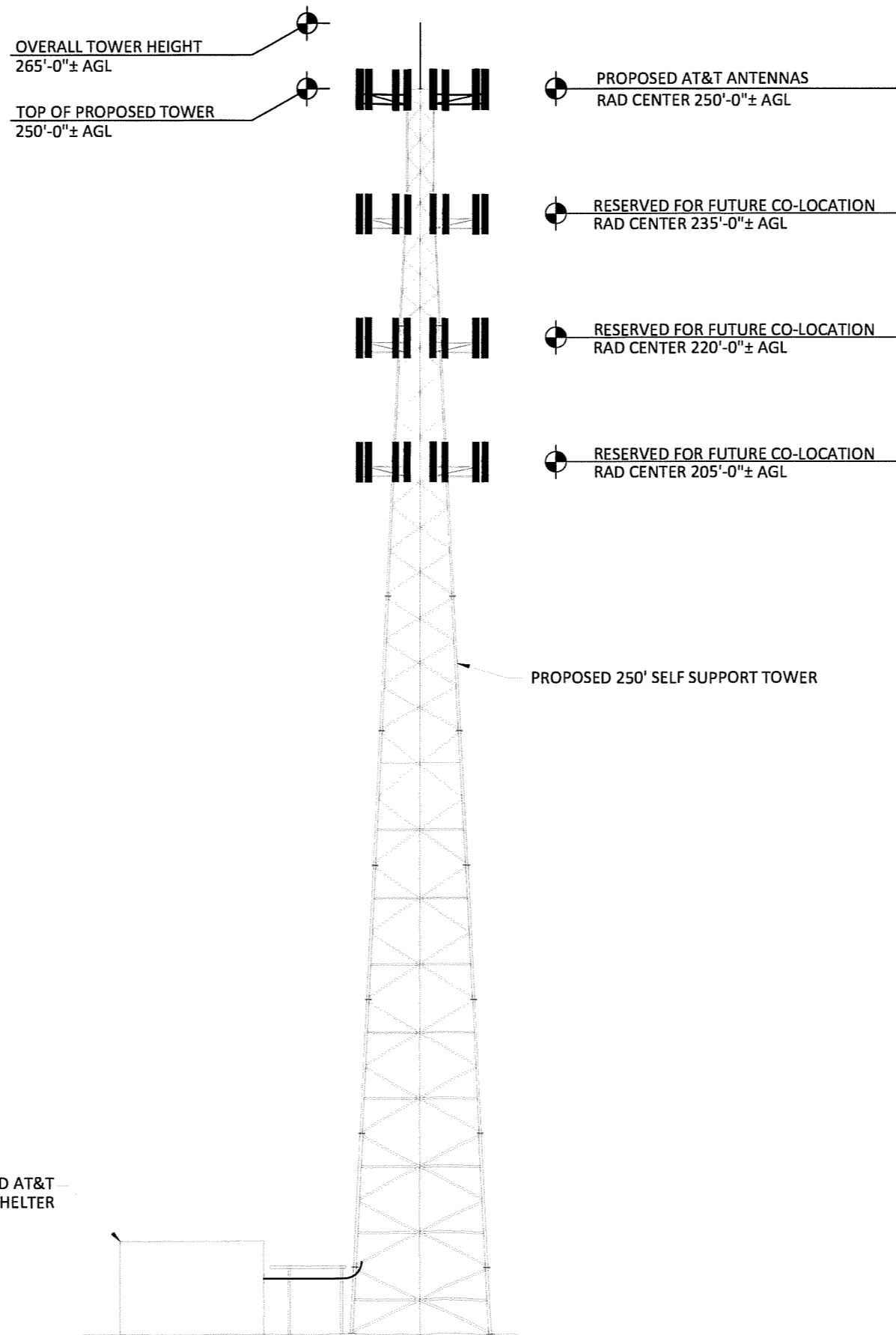
**SHEET TITLE:**  
**ENLARGED COMPOUND LAYOUT**

SHEET NUMBER:  
**C-3**

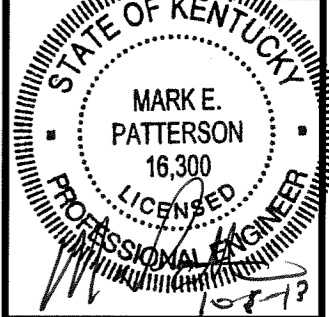
- (E) UTILITY POLE
- (E) SANITARY MANHOLE
- LINE LEGEND:**
- (P) LEASE LINE
- (P) ELECTRIC
- (P) TELEPHONE
- (P) FENCE
- (E) PROPERTY LINE
- (E) EDGE OF PAVEMENT
- (E) RIGHT OF WAY
- (E) FENCE
- (E) OVERHEAD ELECTRIC
- (E) LOT LINES
- (E) GRAVEL
- (E) CONTOURS - MAJOR
- (E) CONTOURS - MINOR







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



**ZONING DRAWINGS**

REV.	DATE	DESCRIPTION
1	09.18.13	SURVEY - BOUNDARY

SITE INFORMATION:

**LG&E TRIMBLE**

GILLS RIDGE ROAD  
BEDFORD, KY 40006

SITE NUMBER:  
KYSU1534

POD NUMBER: 13-0749  
DRAWN BY: CMD  
CHECKED BY: MEP  
DATE: 08.20.13

SHEET TITLE:

**TOWER ELEVATION**

SHEET NUMBER:  
**C-4**

PROPOSED AT&T SHELTER

**1 TOWER ELEVATION**  
NOT TO SCALE

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



November 22, 2013

American Tower Corp.

Attn: Mr. Ron Rohr

SUBJECT: Valmont File #240588 Model V-27.0 x 250' Self Supporting Tower  
Site: #282071 LG&E Trimble – Bedford, KY

Thank you for your inquiry concerning tower design codes and practices as they relate to your requested tower designs.

Valmont Structures has been designing and building guyed and self-supporting towers and monopoles since the early 1950's. During this time, we have sold thousands of towers ranging in height from as little as 50' high to in excess of 1400'. These towers were individually engineered to accommodate the loading requirements imparted by the design wind speed, ice considerations, antenna loading, and other factors dictated by the national code requirements existing at the time the tower was built.

The present National Tower code, the TIA-222-G, represents the latest refinement of specific minimum requirements for tower engineers and manufacturers to follow to help assure that the tower structure and its foundation are designed to meet the most realistic conditions for local weather while assuring that the tower is designed to stringent factors of safety.

The TIA-222-G code incorporates an escalating wind factor based on tower height. If 90 MPH 3 second gust is the basic design wind speed at the 10 meter height, then per the specification, this speed is then increased in stages up the tower. "Meeting the code" implies that the design will have all of the code requirements for safety factors intact at the wind speed specified. Thus, the ultimate survival speed would be considerably higher.

While failure is extremely rare in any kind of tower, it is especially so for self supported towers and monopoles. In fact, only if a tower or monopole were subjected to a direct hit from a tornado or the severest of hurricanes would failure be predicted, and then usually only if hit by flying debris.

We are aware of only a very few documented instances of a self supporting tower or monopole failure. Self supporting towers and monopoles can be designed such that the most common mode of failure is in the upper middle region of the tower, with the upper portion of the tower remaining connected and "bending and bowing over" against the base of the tower or pole. The fact that the wind is normally greater on the upper portion of the structure contributes to the likelihood of this type of failure.



Communications Division, Valmont Industries, Inc.

1545 Pidco Drive Plymouth, Indiana 46563-4005 USA

574-936-4221 Fax 574-936-6796 [www.valmont.com](http://www.valmont.com)



This particular Tower is designed such that its first point of predicted failure is in the region above the 125' level. The predicted mode of wind induced failure would be a buckling of the tower legs above the 125' level with the top sections of the tower folding over on to the intact base sections. This would then affect a "zero fall zone" at ground level.

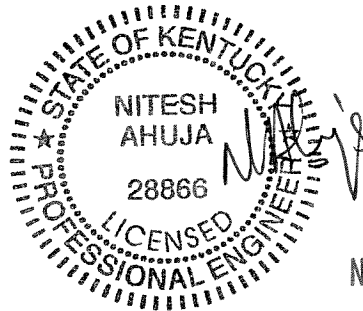
As Chief Engineer of the company and a registered P.E. in 20 states, I oversee all engineering and application of our towers. I am a graduate engineer from Purdue University and am assisted by other registered professional engineers on our staff.

Valmont Structures is an AISC approved shop. All Valmont Structures welders are AWS and CWB qualified. Mathematical and physical tests are performed routinely on tower sections and designs as required. Our total design, engineer and build process has been quality audited by our customers including public utilities, telephone companies, government agencies, and of course AISC.

We trust the above and the attached will be helpful to you. If you should need anything else, please let us know at your convenience.

Sincerely,

Nitesh Ahuja, P.E.  
Senior Engineer  
Ext. #5257



NOV 27 2013



Communications Division, Valmont Industries, Inc.  
1545 Pidco Drive Plymouth, Indiana 46563-4005 USA  
574-936-4221 Fax 574-936-6796 [www.valmont.com](http://www.valmont.com)



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

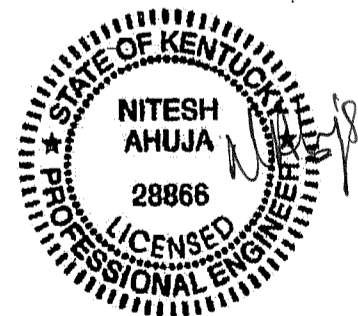
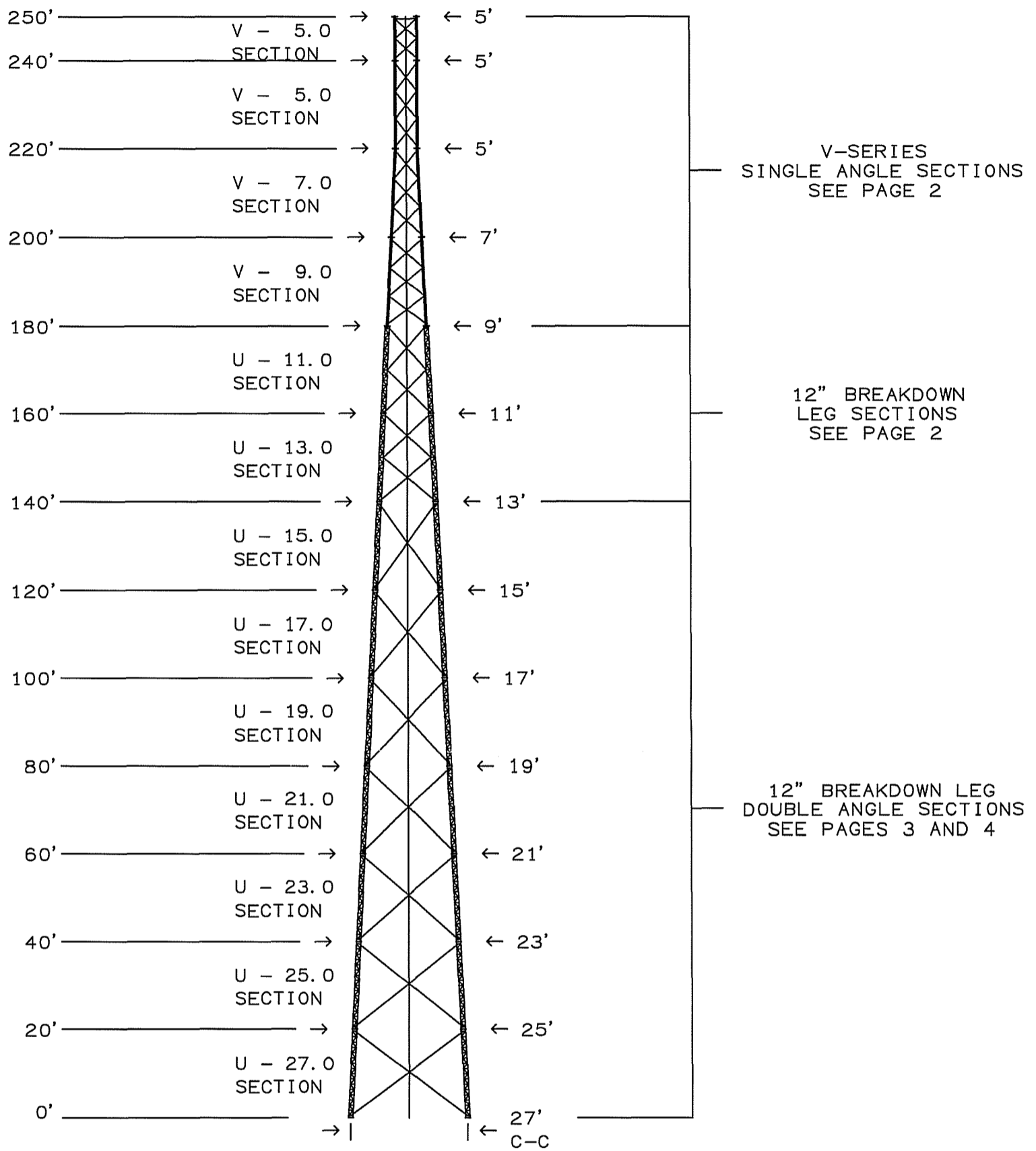
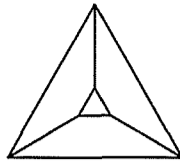
Accreditations and Licenses

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



NOV 27 2013

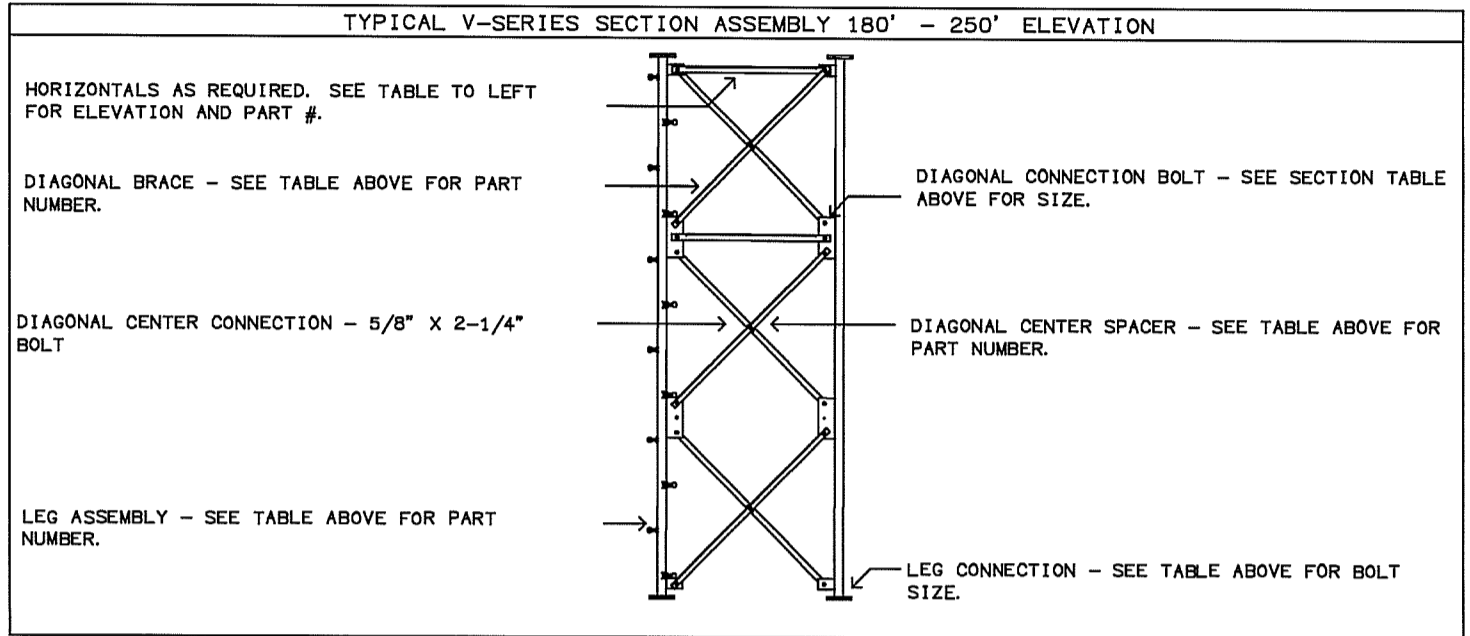
Nitesh Ahuja, KY Professional Engineer #28866

				AMERICAN TOWER CORP. #282071 LG & E TRIMBLE, KY V-27.0 X 250'		
				KENTUCKY C. O. A. 1542		
A	ADDED FOUNDATIONS PER SOIL REPORT	MS	11/27/2013	APPROVED/ENG.	M_S	11/27/2013
REV	DESCRIPTION OF REVISIONS	INI	DATE	APPROVED/FOUND.	N/A	
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Printed from 252257_010A.DWG - 11/27/2013 13:15 @ 11/27/2013 15:00				ENG. FILE NO. A-240588- ARCHIVE F-1015791		DRAWING NO. 252257 PAGE 1 OF 10

V-SERIES LEG SECTION DATA 180' - 250' ELEVATION																				
SECTION			LEG										DIAGONAL BRACE						HOR	
#	LENGTH	* WEIGHT	NOM SIZE	WALL	GRADE	CLIMBING		NON-CLIMB		CONNECT BOLT+		PART NUMBER **			ANGLE		CONNECT BOLT		CENTER SPACER	QTY
						QTY	PART#	QTY	PART#	DIAM	LENGTH	#1	#2	#3	FACE	THICK	DIAM	LENGTH		
V- 5.0	10'	528#	2-1/2"	0.203	A572-50	1	226172	2	226173	3/4"	3-1/2"	227077	227077		2"	1/8"	3/4"	2-1/4"	116467	1
V- 5.0	20'	1285#	4"	0.237	A572-50	1	226184	2	226185	3/4"	3-1/2"	227113	227113	227113	2"	3/16"	3/4"	2-1/4"	116467	
V- 7.0	20'	1609#	5"	0.258	A572-50	1	226200	2	226201	3/4"	3-1/2"	226190	226189	231342	2"	3/16"	3/4"	2-1/4"	116467	
V- 9.0	20'	2293#	6"	0.280	A572-50	3	229377			1"	4-3/4"	225035	225034	231345	2-1/2"	3/16"	3/4"	2-1/4"	116467	

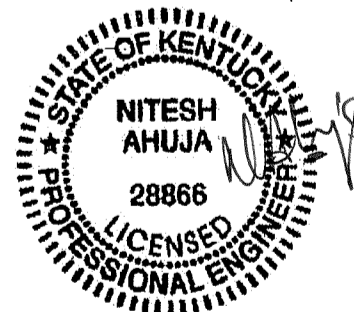
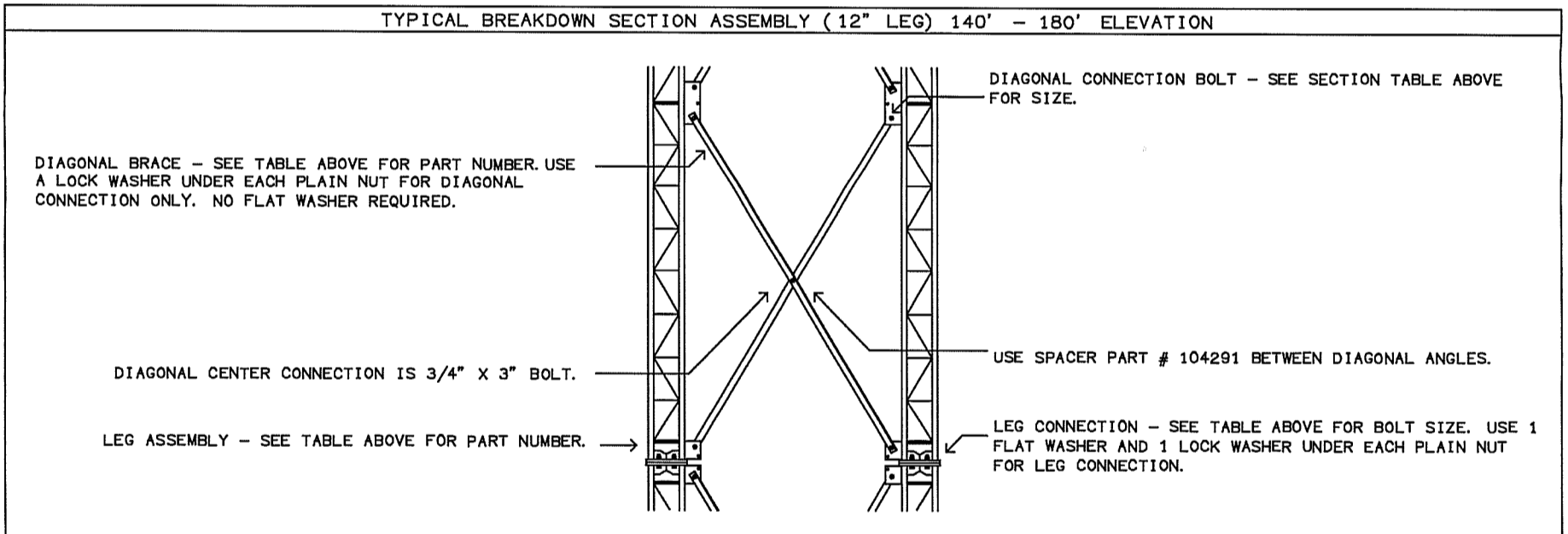
+ AT BOTTOM OF SECTION  
\* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY. ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.  
\*\* PANELS ARE NUMBERED BEGINNING AT THE TOP OF THE SECTION.

HORIZONTAL DATA		
HORIZ HT	IN SEC#	HORIZ PART#
250	V- 5.0	227584



BREAKDOWN SECTION DATA (12\"/>													
SEC #	SECTION LENGTH	LEG SIZE	LEG PART#	TOP DIAG PART#	BOT DIAG PART#	DIAGONAL ANGLE		SECTION WEIGHT	LEG CONNECT+ DIAM	LEG CONNECT+ LENGTH	DIAG CONNECT		DIAG CONNECT LENGTH
U-11.0	20'	1- 3/4"	229588	105568	105571	3"	3/16"	2990#	1"	4-3/4"	1 "	2-1/4"	
U-13.0	20'	1- 3/4"	229588	105574	105576	3"	3/16"	3056#	1"	4-3/4"	1 "	2-1/4"	

\* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY. ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.  
+ USE 1 FLAT WASHER UNDER EACH LOCK WASHER FOR LEG CONNECTION ONLY.



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Nitesh Ahuja, KY Professional Engineer #28866

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	KENTUCKY C. O. A. 1542		
	APPROVED/ENG.	M_S 11/27/2013	
	APPROVED/FOUND.	N/A	
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BREAKDOWN SECTION LEG DATA (12" LEG WITH DOUBLE ANGLES) 0' - 140' ELEVATION

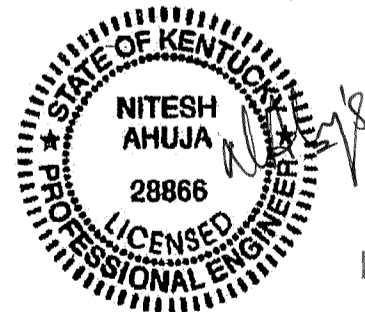
SECTION				LEG		LEG CONNECT @ BOTTOM+		
#	MODEL	LENGTH	WEIGHT*	SIZE	PART #	DIAM	LENGTH	#
7	U-15.0	20'	3953#	2 "	208332	1"	4-3/4"	12
6	U-17.0	20'	4615#	2- 1/4 "	208334	1"	4-3/4"	12
5	U-19.0	20'	4676#	2- 1/4 "	208334	1"	4-3/4"	12
4	U-21.0	20'	6016#	2- 1/2 "	208335	1"	4-3/4"	12
3	U-23.0	20'	6119#	2- 1/2 "	208335	1"	4-3/4"	12
2	U-25.0	20'	7007#	2- 3/4 "	208337	1"	4-3/4"	12
1	U-27.0	20'	7047#	2- 3/4 "	208337			

\* THE WEIGHTS LISTED ARE THEORETICAL. THE ACTUAL WEIGHTS WILL VARY. ALL WEIGHTS SHOULD BE CONFIRMED IN THE FIELD PRIOR TO ERECTION.  
 + QTY IS PER LEG. USE 1 LOCK WASHER AND 1 FLAT WASHER UNDER EACH PLAIN NUT.

BREAKDOWN SECTION DIAGONAL DATA (12" LEG WITH DOUBLE ANGLES) 0' - 140' ELEVATION

SECTION		DIAGONAL PART #			DIAG ANGLE		DIAG END BOLT		DIAG CENTER & SPACER BOLT		CENTER PLATE	SPACER	
#	MODEL	UPPER	LOWER	LONG	FACE	THICK	DIAM	LENGTH	DIAM	LENGTH	PART #	PART #	#*
7	U-15.0	215272	215276	215357	3"	3/16"	7/8"	2-1/2"	5/8"	2-1/4"	211833	104291	5
6	U-17.0	215280	215284	215361	3"	3/16"	7/8"	2-1/2"	5/8"	2-1/4"	211833	104291	6
5	U-19.0	215288	215292	215364	3"	3/16"	7/8"	2-1/2"	5/8"	2-1/4"	211833	104291	7
4	U-21.0	215296	215300	215369	3-1/2"	1/4"	7/8"	2-1/2"	5/8"	2-1/4"	211833	104291	8
3	U-23.0	215304	215308	215373	3-1/2"	1/4"	7/8"	2-1/2"	5/8"	2-1/4"	211833	104291	8
2	U-25.0	215312	215316	215377	3-1/2"	1/4"	7/8"	2-1/2"	5/8"	2-1/4"	211833	104291	8
1	U-27.0	215320	215324	215380	3-1/2"	1/4"	7/8"	2-1/2"	5/8"	2-1/4"	211833	104291	8

\* QUANTITY IS PER PANEL PER FACE. USE 1 LOCK WASHER UNDER EACH PLAIN NUT.



NOV 27 2013

Nitesh Ahuja, KY Professional Engineer #28866

AMERICAN TOWER CORP.  
 #282071 LG & E TRIMBLE, KY  
 V-27.0 X 250'

KENTUCKY C. O. A. 1542  
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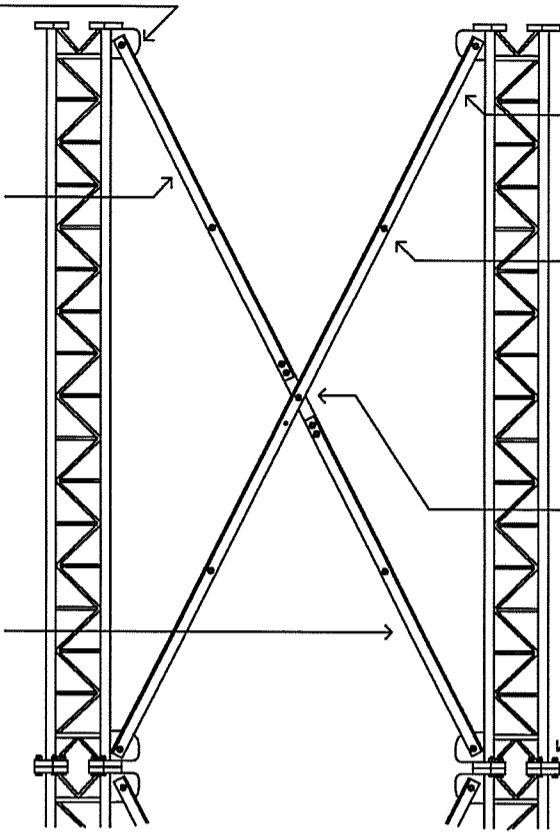


TYPICAL BREAKDOWN SECTION ASSEMBLY (12" LEG WITH DOUBLE ANGLES) 0' - 140' ELEVATION

DIAGONAL END BOLTS - SEE DIAGONAL TABLE ON PAGE 3 FOR SIZE. NO FLAT WASHER REQUIRED.

"UPPER" DIAGONAL BRACES (BACK TO BACK ANGLES) - SEE TABLE ON PG. 3 FOR PART #.

"LOWER" DIAGONAL BRACES (BACK TO BACK ANGLES) - SEE TABLE ON PG. 3 FOR PART #.



"LONG" DIAGONAL BRACE (BACK TO BACK ANGLES) - SEE TABLE ON PG. 3 FOR PART #.

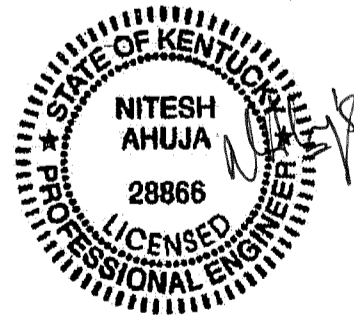
INTERMEDIATE DIAGONAL BOLTS WITH SPACER - SEE TABLE ON PG. 3 FOR SIZE, SPACER PART # AND NUMBER OF LOCATIONS PER PANEL ON EACH FACE. USE 1 SPACER PER BOLT. SEE DRAWING # 214823 FOR DETAILS.

DIAGONAL CENTER PLATE - SEE DIAGONAL TABLE ON PAGE 3 FOR PART # AND BOLT SIZE.

LEG CONNECTION - SEE TABLE ON PAGE 3 FOR BOLT SIZE. USE 1 LOCK WASHER AND 1 FLAT WASHER UNDER EACH PLAIN NUT FOR LEG CONNECTION.

ATTENTION ERECTOR:

- EXTRA CARE MUST BE TAKEN WHEN STANDING BREAKDOWN LEG SECTIONS FROM A FLAT "ASSEMBLY" POSITION ON THE GROUND TO AN UPRIGHT POSITION FOR STACKING. POOR RIGGING AND/OR LIFTING PROCEDURES MAY DAMAGE THE ANGLE BRACES AND/OR BREAKDOWN LEGS. IT IS THE RESPONSIBILITY OF THE TOWER CONTRACTOR TO ENSURE BREAKDOWN LEGS AND ANGLES ARE NOT DAMAGED DURING THE TOWER ASSEMBLY AND ERECTION.
- WHEN LIFTING ("FLYING") SINGLE PANEL TOWER SECTIONS TO PLACE THEM ON PREVIOUSLY ERECTED SECTIONS, A MINIMUM OF TWO (2) FULL SECTIONS (TYPICALLY 40') MUST BE ASSEMBLED TOGETHER TO PROVIDE ADEQUATE STABILITY TO THE TOWER LEGS AND ANGLE BRACES. IT IS THE RESPONSIBILITY OF THE TOWER CONTRACTOR TO ENSURE BREAKDOWN LEGS AND ANGLES ARE NOT DAMAGED DURING THE TOWER ASSEMBLY AND ERECTION.



NOV 27 2013

Nitesh Ahuja, KY Professional Engineer #28866

AMERICAN TOWER CORP.  
#282071 LG & E TRIMBLE, KY  
V-27.0 X 250'

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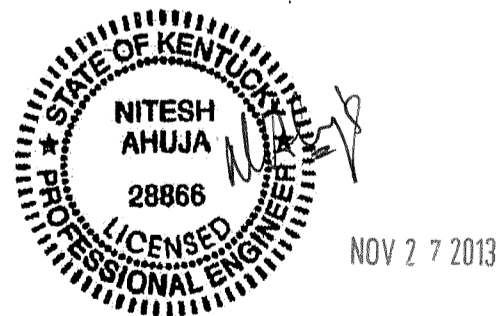
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GENERAL NOTES

1. TOWER MEETS THE REQUIREMENTS OF THE 2013 KENTUCKY BUILDING CODE UTILIZING AN 90 MPH 3-SEC GUST BASIC WIND SPEED WITH A STRUCTURE CLASS OF II, TOPOGRAPHIC CATEGORY OF 1 AND EXPOSURE C CRITERIA WITH NO ICE PER ANSI/TIA-222-G.  
TOWER MEETS THE REQUIREMENTS OF THE 2013 KENTUCKY BUILDING CODE UTILIZING AN 30 MPH 3-SEC GUST BASIC WIND SPEED WITH A STRUCTURE CLASS OF II, TOPOGRAPHIC CATEGORY OF 1 AND EXPOSURE C CRITERIA WITH .75" RADIAL ICE PER ANSI/TIA-222-G.
2. NO TWIST AND SWAY LIMITATIONS SPECIFIED OR USED FOR THIS TOWER.
3. MATERIAL: (A) SOLID RODS TO ASTM A572 GRADE 50. (B) ANGLES TO ASTM A36. (C) PIPE TO ASTM A500 GRADE B. (D) STEEL PLATES TO ASTM A36. (E) CONNECTION BOLTS TO ASTM A325 OR ASTM A449 (Fu=120 KSI AND Fy=92 KSI) AND ANCHOR BOLTS TO ASTM F1554 (Fu=150 KSI AND Fy=105 KSI). (F) TOWER LEG PIPE TO BE ASTM A500 GRADE B/C WITH 50KSI MIN. YIELD STRENGTH
4. BASE REACTIONS PER TIA-222-G FOR 90 MPH BASIC WIND SPEED WITH NO ICE (REACTIONS INCLUDE TIA-222-G LOAD FACTORS): TOTAL WEIGHT = 94.0 KIPS. MAXIMUM COMPRESSION = 622.0 KIPS PER LEG. MOMENT = 13820.0 KIP-FT. MAXIMUM UPLIFT = 554.0 KIPS PER LEG. MAXIMUM SHEAR = 94.0 KIPS TOTAL.
5. BASE REACTIONS PER TIA-222-G FOR 30 MPH BASIC WIND SPEED WITH 0.75" RADIAL ICE (REACTIONS INCLUDE TIA-222-G LOAD FACTORS): TOTAL WEIGHT = 288.0 KIPS. MOMENT = 1616.0 KIP-FT. MAXIMUM SHEAR = 10.0 KIPS TOTAL.
6. FINISH: ALL BOLTS ARE GALVANIZED IN ACCORDANCE WITH ASTM A153 (HOT DIPPED) OR ASTM B695 CLASS 50 (MECHANICAL). ALL OTHER STRUCTURAL MATERIALS ARE GALVANIZED IN ACCORDANCE WITH ASTM 123.
7. ANTENNAS: 250' -135 SQ. FT. AREA WITH 3,000# WITH ICE/115 SQ. FT. AREA WITH 2,000# NO ICE AND (18) 1-5/8" LINES  
240' -135 SQ. FT. AREA WITH 3,000# WITH ICE/115 SQ. FT. AREA WITH 2,000# NO ICE AND (18) 1-5/8" LINES  
230' -135 SQ. FT. AREA WITH 3,000# WITH ICE/115 SQ. FT. AREA WITH 2,000# NO ICE AND (18) 1-5/8" LINES  
220' -135 SQ. FT. AREA WITH 3,000# WITH ICE/115 SQ. FT. AREA WITH 2,000# NO ICE AND (18) 1-5/8" LINES  
NOTE: (A) ELEVATIONS ARE TO THE BOTTOM OF THE ANTENNAS EXCEPT FOR MICROWAVE DISHES, WHICH ARE TO THE CENTERLINE. (B) ALL TRANSMISSION LINES MUST BE PLACED ON PIROD SUPPLIED LINE BRACKETS.
8. REMOVE FOUNDATION TEMPLATE PRIOR TO ERECTING TOWER. INSTALL BASE SECTION WITH MINIMUM OF 2" CLEARANCE ABOVE CONCRETE. SEE BASE SECTION PLACEMENT PAGE FOR MORE INFORMATION. PACK NON-SHRINK STRUCTURAL GROUT UNDER BASE SECTION AFTER LEVELING TOWER.
9. MIN. WELDS 5/16" UNLESS OTHERWISE SPECIFIED. ALL WELDING TO CONFORM TO AWS D1.1 SPECIFICATIONS .
10. THIS DRAWING DOES NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND HE SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, SEQUENCES AND PROCEDURES.
11. ALL BOLTS AND NUTS MUST BE IN PLACE BEFORE THE ADJOINING SECTIONS ARE INSTALLED.
12. ALL STRUCTURAL BOLTS ARE TO BE TIGHTENED TO A SNUG TIGHT CONDITION AS DEFINED BY AISC SPECIFICATION UNLESS OTHERWISE NOTED.
13. ATTENTION TOWER ERECTOR: COAT ALL BOLT ASSEMBLIES THAT USE PIN LOCK NUTS WITH ZINC RICH COLD GALVANIZING COMPOUND AFTER FINAL TIGHTENING.
14. TIA-222-G GROUNDING FOR TOWER.



Nitesh Ahuja, KY Professional Engineer #28866

AMERICAN TOWER CORP.  
#282071 LG & E TRIMBLE, KY  
V-27.0 X 250'

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FOUNDATION NOTES

1. SOIL AS PER REPORT BY FDH ENGINEERING, DATED 10/16/13, PROJECT# 1305631600
2. CONCRETE TO BE 4000 PSI @ 28 DAYS. REINFORCING BAR TO CONFORM TO ASTM A615 GRADE 60 SPECIFICATIONS. CONCRETE INSTALLATION TO CONFORM TO ACI-318 (2008) BUILDING REQUIREMENTS FOR REINFORCED CONCRETE. ALL CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH FREE OF WATER AND ALL FOREIGN OBJECTS AND MATERIALS. A MINIMUM OF THREE INCHES OF CONCRETE SHALL COVER ALL REINFORCEMENT. WELDING OF REBAR NOT PERMITTED.
3. A COLD JOINT IS PERMISSIBLE UPON CONSULTATION WITH PIROD. ALL COLD JOINTS SHALL BE COATED WITH BONDING AGENTS PRIOR TO SECOND POUR.
4. ALL FILL SHOULD BE PLACED IN LOOSE LEVEL LIFTS OF NO MORE THAN 8" THICK. FILL MATERIALS SHOULD BE CLEAN AND FREE OF ORGANIC AND FROZEN MATERIALS OR ANY OTHER DELETERIOUS MATERIALS. COMPACT FILL TO 95% OF STANDARD PROCTOR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698.
5. BENDING, STRAIGHTENING OR REALIGNING (HOT OR COLD) OF THE ANCHOR BOLTS BY ANY METHOD IS PROHIBITED.
6. CROWN TOP OF FOUNDATION FOR PROPER DRAINAGE.
7. FOUNDATION IS TO BEAR ON NATURAL SOILS (WEATHERED ROCK WITH SAND) AT APPROXIMATELY 6.0' BELOW GRADE. THE BEARING SURFACE IS TO BE FREE OF ANY LOOSE MATERIAL & SUBSEQUENTLY INSPECTED BY A QUALIFIED ON-SITE GEOTECHNICAL ENGINEER.
8. GRADE THE SITE TO DRAIN AWAY FROM FOUNDATION.
9. DIFFICULTIES DURING EXCAVATION MAY ARISE DUE TO THE PRESENCE OF BOULDERS, COBBLES, AND/OR SHALLOW BEDROCK. THE BOULDERS, COBBLES, AND/OR ROCK MUST BE REMOVED FROM THE EXCAVATION OR DRILLED THROUGH.
10. A CONCRETE MAT MAY BE USED TO LEVEL THE BEARING SURFACE. THE CONCRETE IN THE LEVELING MAT IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28 DAYS AND CAN NOT EXCEED 12" IN THICKNESS.



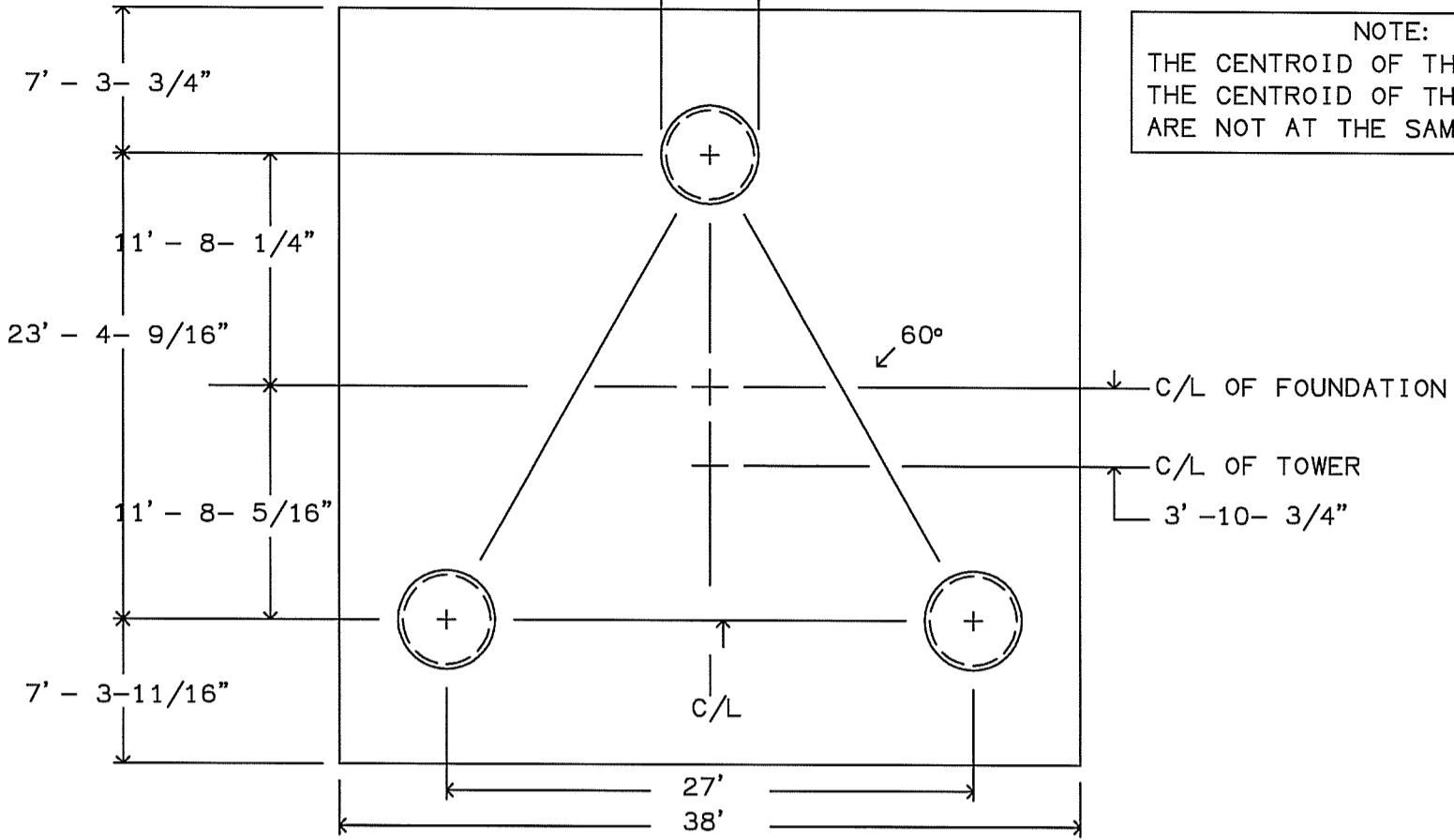
NOV 27 2013

Nitesh Ahuja, KY Professional Engineer #28866

				AMERICAN TOWER CORP. #282071 LG & E TRIMBLE, KY V-27.0 X 250'		
				KENTUCKY C. O. A. 1542		
A	ADDED FOUNDATIONS PER SOIL REPORT	MS	11/27/2013	APPROVED/ENG.	M_S	11/27/2013
REV	DESCRIPTION OF REVISIONS	INI	DATE	APPROVED/FOUND.	M_S	11/27/2013
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				ARCHIVE F-1015791		252257
						PAGE 6 OF 10



5' ROUND, CENTERED AROUND  
THE CIRCULAR REBAR CAGE

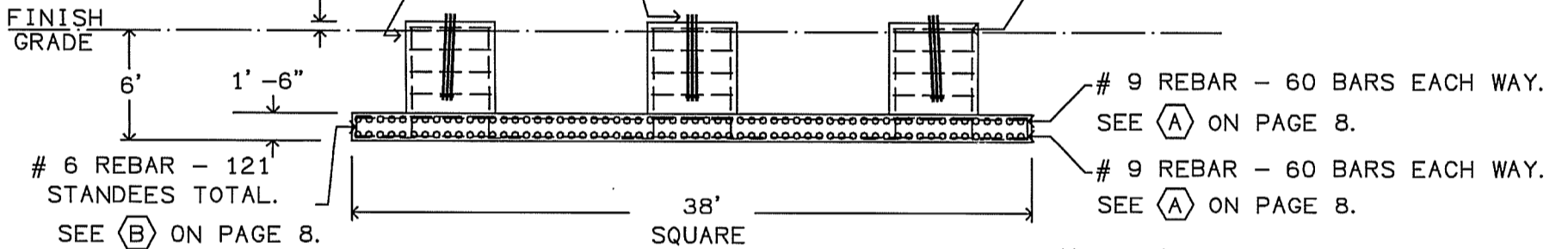


NOTE:  
THE CENTROID OF THE TOWER AND  
THE CENTROID OF THE FOUNDATION  
ARE NOT AT THE SAME POINT!

# 8 VERTICAL REBAR -  
SEE (C) ON PAGE 8.  
23 PIECES REQ. PER PIER,  
EQUALLY SPACED, TO BE  
PLACED INSIDE TIES.

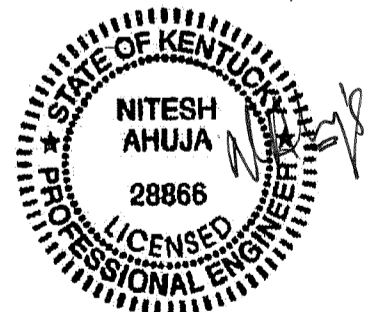
FOR ANCHOR STEEL IDENTIFICATION AND  
PLACEMENT INFORMATION, SEE PAGE 9  
OF THIS DRAWING. SEE PAGE 10 FOR  
BASE SECTION INSTALLATION DETAIL.

# 4 TIES - SEE (D) ON PAGE 8.  
6 PIECES REQ. PER PIER



TOWER FOUNDATION

91.1 CUBIC YARDS CONCRETE REQUIRED  
FOR INSTALLATION SPECIFICATIONS AND  
ADDITIONAL INFORMATION, SEE PAGE 6  
OF THIS DRAWING.

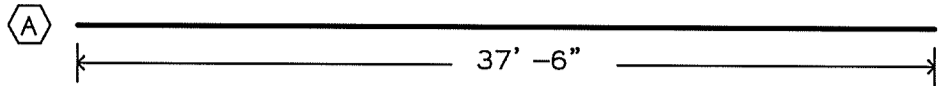


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Nitesh Ahuja, KY Professional Engineer #28866

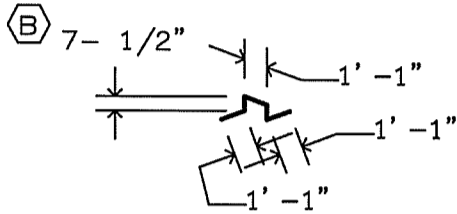
				AMERICAN TOWER CORP. #282071 LG & E TRIMBLE, KY V-27.0 X 250'	
				KENTUCKY C. O. A. 1542	
A	ADDED FOUNDATIONS PER SOIL REPORT	MS	11/27/2013	APPROVED/ENG.	M_S 11/27/2013
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				PAGE 7 OF 10	



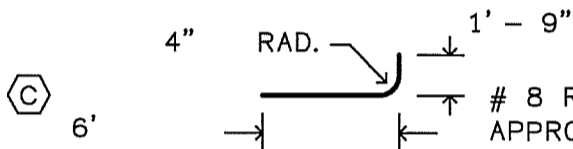


# 9 REBAR - 240 PIECES REQ. TOTAL  
APPROX WT = 127.5# EACH, 30600# TOTAL

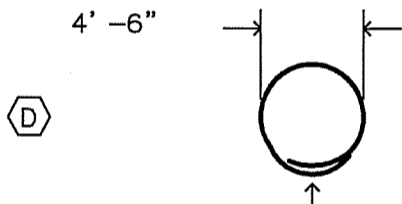
REBAR SUPPORTS MAY CONSIST OF ANY ACCEPTABLE MEANS OF SECURELY SUPPORTING THE TOP REINFORCEMENT GRID ABOVE THE BOTTOM REINFORCEMENT GRID WHILE MAINTAINING A SEPARATION OF 1' (OUTSIDE REBAR TO OUTSIDE REBAR).



# 6 REBAR - 121 PIECES REQUIRED TOTAL  
TYPE 26 STANDEE PLACED BETWEEN REBAR GRIDS ON NOMINAL 4' SPACING THROUGHOUT  
APPROX UNBENT LENGTH = 4'-5"  
APPROX WT = 6.6# EACH, 799# TOTAL



# 8 REBAR - 69 PIECES REQUIRED TOTAL  
APPROX UNBENT LENGTH = 7'-7-3/8"  
APPROX WT = 20.3# EACH, 1401# TOTAL

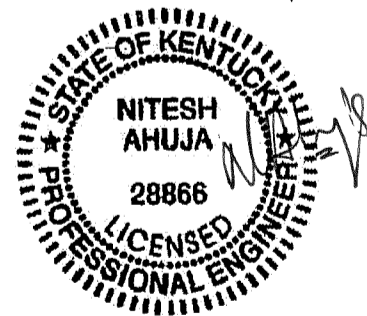


# 4 REBAR - 18 PIECES REQUIRED TOTAL  
APPROX UNBENT LENGTH = 15'-8-1/4"  
APPROX WT = 10.5# EACH, 189# TOTAL

LAP DIMENSION: 1'-6-1/2"  
PLACE CIRCULAR TIES SO THAT LAPS ON ADJACENT TIES ARE 180 DEGREES APART. PLACE ONE TIE AT TOP OF PAD AND TWO TIES AT TOP OF PIER REBAR. EQUALLY SPACE REMAINING TIES ALONG PIER.

REBAR DETAIL

TOTAL APPROX REBAR WEIGHT = 32989#  
REINFORCING BAR TO CONFORM TO  
ASTM A615 GRADE 60 SPECIFICATIONS.

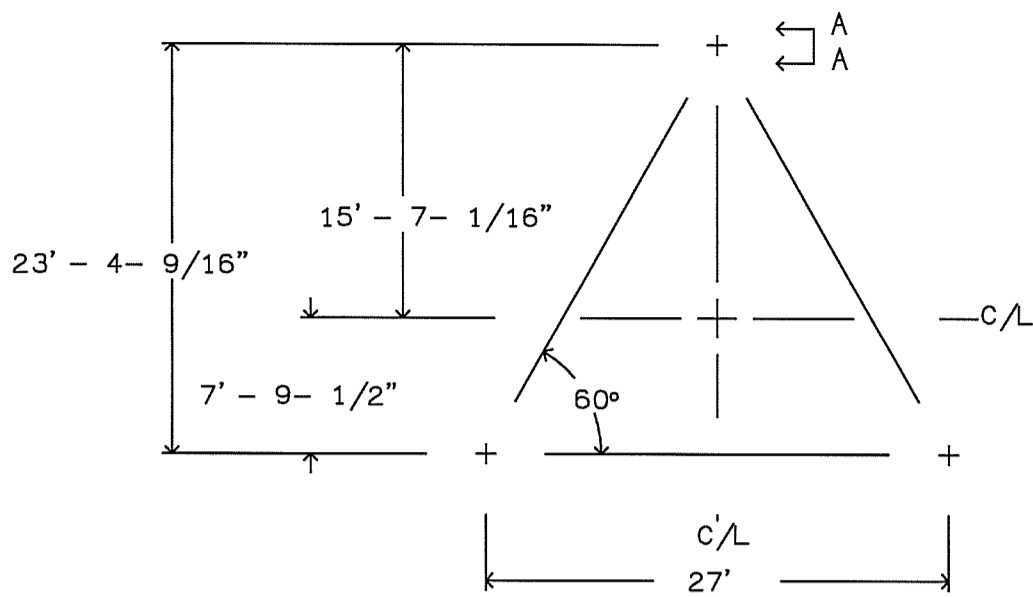


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Nitesh Ahuja, KY Professional Engineer #28866

				AMERICAN TOWER CORP. #282071 LG & E TRIMBLE, KY V-27.0 X 250'		
				KENTUCKY C. O. A. 1542		
A	ADDED FOUNDATIONS PER SOIL REPORT	MS	11/27/2013	APPROVED/ENG.	M_S	11/27/2013
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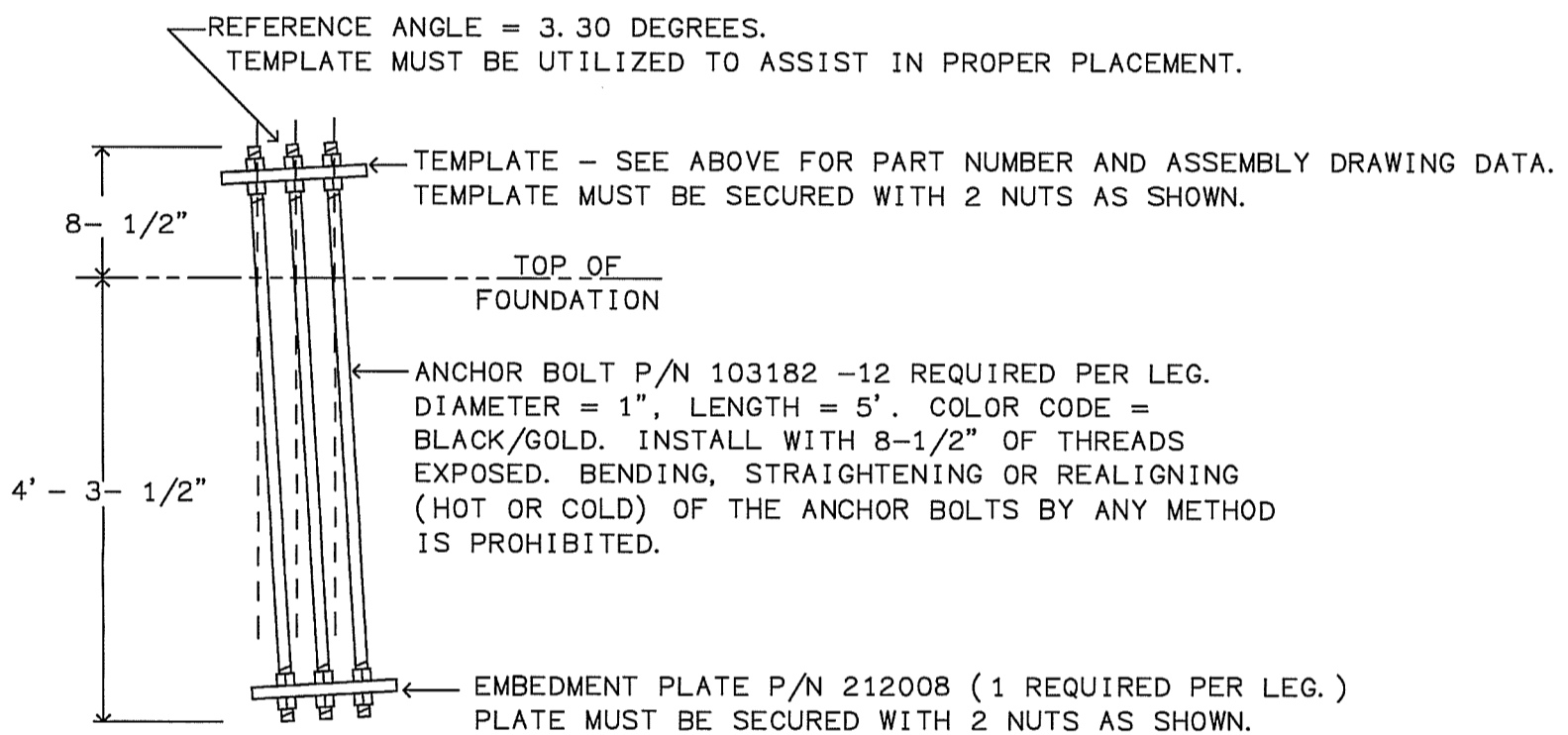




TEMPLATE ASSEMBLY P/N 216152 INCLUDES CORNER PLATE P/N 211902, IS REQUIRED FOR INSTALLATION AND MUST BE PLACED AS SHOWN. SEE DRAWING # 211875 FOR TEMPLATE ASSEMBLY DETAILS. SEE PAGE 7 FOR TOWER C/L LOCATION RELATIVE TO THE FOUNDATION LAYOUT. TEMPLATE PLACEMENT +/- 3". EACH LEG MUST BE CENTERED IN PIER WITHIN +/- 10% OF PIER DIAMETER. TEMPLATE MUST BE LEVEL +/- 1 DEGREE. INSTALL TEMPLATE WITH SUFFICIENT SPACE BENEATH (2" MINIMUM) TO PERMIT FINISHING OF CONCRETE AND TO FACILITATE TEMPLATE REMOVAL PRIOR TO TOWER ERECTION.

SEE PAGE 10 FOR BASE SECTION INSTALLATION DETAIL.

TOWER ANCHOR STEEL PLACEMENT - TOP VIEW



VIEW A - A - ANCHOR BOLT INSTALLATION DETAIL (NOT TO SCALE)

**ATTENTION CONTRACTOR INSTALLING THE ANCHOR BOLTS!**

1" DIAMETER ANCHOR BOLTS FOR TAPERED TOWER.


VERIFY THE PART NUMBERS AND SIZES FOR ALL COMPONENTS ON THIS PAGE AND PAGE 10.

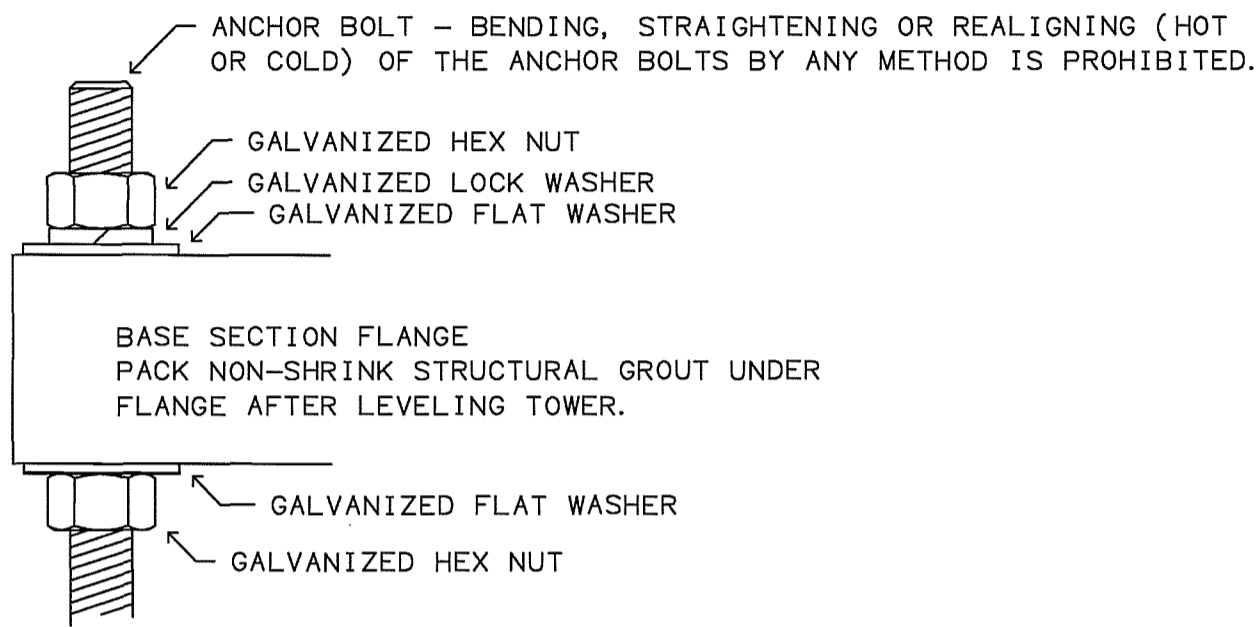
IF THERE ARE ANY DISCREPANCIES, PLEASE NOTIFY PIROD, INC. PRIOR TO INSTALLATION!!



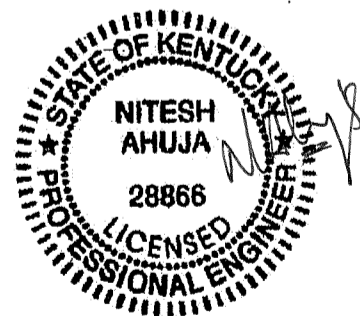
NOV 27 2013

Nitesh Ahuja, KY Professional Engineer #28866

				AMERICAN TOWER CORP. #282071 LG & E TRIMBLE, KY V-27.0 X 250'	
				KENTUCKY C. O. A. 1542	
A	ADDED FOUNDATIONS PER SOIL REPORT	MS	11/27/2013	APPROVED/ENG.	M_S 11/27/2013
REV	DESCRIPTION OF REVISIONS	INI	DATE	APPROVED/FOUND.	M_S 11/27/2013
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				 1-877-467-4763 Plymouth, IN 1-888-880-9191 Salem, OR STRUCTURES	
				DRAWING NO. 252257	
				PAGE 9 OF 10	




BASE SECTION INSTALLATION DETAIL

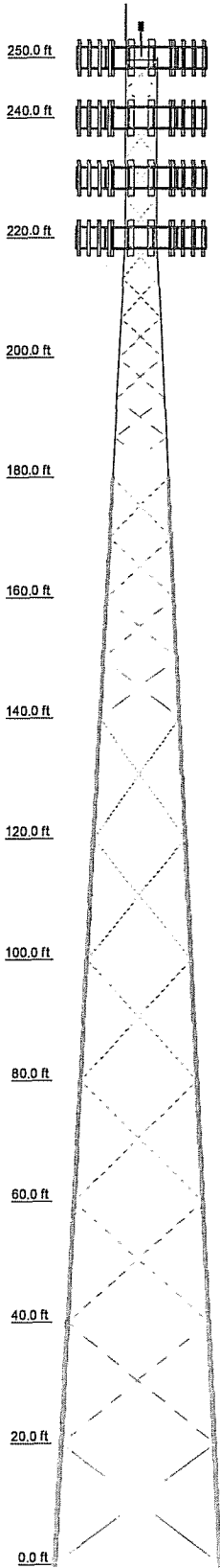


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Nitesh Ahuja, KY Professional Engineer #28866

				AMERICAN TOWER CORP. #282071 LG & E TRIMBLE, KY V-27.0 X 250'		
				KENTUCKY C. O. A. 1542		
A	ADDED FOUNDATIONS PER SOIL REPORT	MS	11/27/2013	APPROVED/ENG.	M_S	11/27/2013
REV	DESCRIPTION OF REVISIONS	INI	DATE	APPROVED/FOUND.	M_S	11/27/2013
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Section	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	
Legs	A	B	C	D	E	F	G	H						
Leg Grade	A572-50													
Diagonals	L2x2x3/16													
Diagonal Grade	A36													
Top Girts	N.A.													
Face Width (ft)	5	7	9	11	13	15	17	19	21	23	25	27		
# Panels @ (ft)	9 @ 6.66667													
Weight (K)	0.3	1.0	1.3	1.7	3.1	3.2	4.0	4.6	4.7	6.0	6.1	7.0	7.1	50.2



**DESIGNED APPURTENANCE LOADING**

TYPE	ELEVATION	TYPE	ELEVATION
Beacon	250	ATC Loading	240
Beacon Extender (4") 803062	250	ATC Loading	230
8ft lightning rod	250	ATC Loading	220
ATC Loading	250		

**SYMBOL LIST**

MARK	SIZE	MARK	SIZE
A	P- 2.50" - 0.75" conn.-10' -C-(Pirod 226172)	G	#12ZG -2.25" - 0.875" conn. (Pirod 208334)
B	P- 4.00"- 0.75" conn.-20' -C-Trans-6B-4B-(Pirod 226184)	H	#12ZG - 2.50" - 0.875" conn. (Pirod 208335)
C	P- 5.00"- 0.75" conn.-Trans-20' -C-(Pirod 226200)	I	#12ZG - 2.75" - 0.875" conn. (Pirod 208337)
D	P- 6.00"- 0.75" conn.-HBD-Trans-20' -C-(Pirod 229377)	J	L2x2x3/16
		K	2 @ 4.79167

**MATERIAL STRENGTH**

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

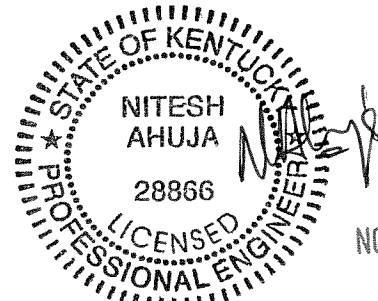
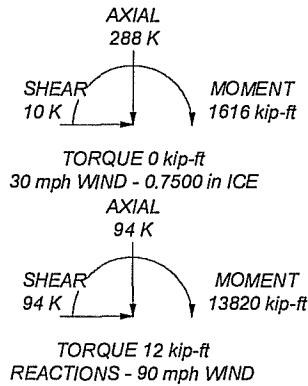
**TOWER DESIGN NOTES**

1. Tower is located in Trimble County, Kentucky.
2. Tower designed for Exposure C to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Tower is also designed for a 30 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
5. Deflections are based upon a 60 mph wind.
6. Tower Structure Class II.
7. Topographic Category 1 with Crest Height of 0.00 ft
8. TOWER RATING: 98.5%

ALL REACTIONS ARE FACTORED

MAX. CORNER REACTIONS AT BASE:

DOWN: 622 K  
 UPLIFT: -554 K  
 SHEAR: 61 K



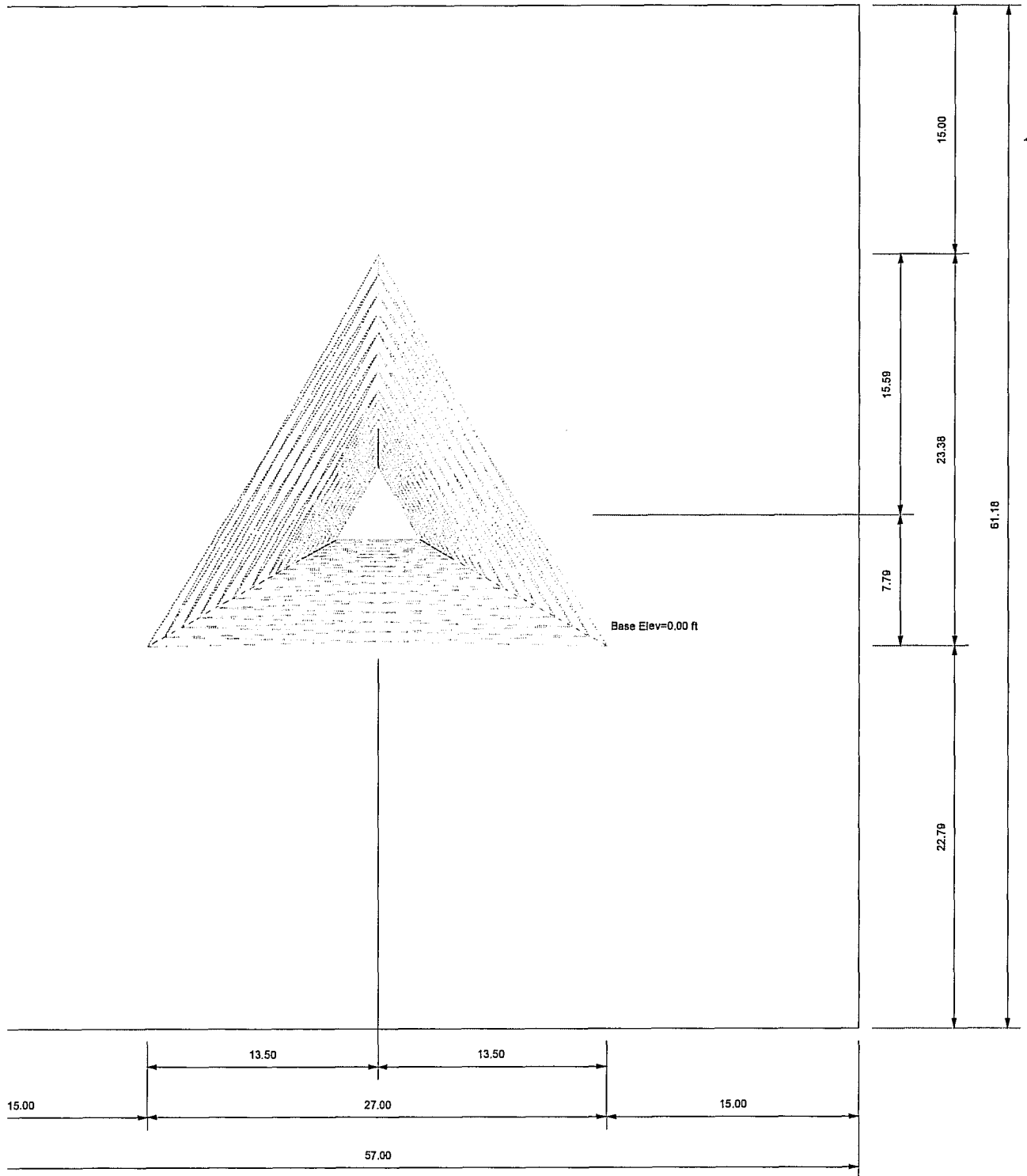
NOV 27 2013


11-27-13

<p>1545 Pidco Drive          STRUCTURES Plymouth, IN 46563          Valmont Industries Inc. - Speciality Structures Group Phone: (574) 936-4221 FAX: (574) 936-6458</p>	Job: 240588	Project: V-27 x 250' - #282071, LG&E Trimble, KY	
	Client: American Tower Corp.	Drawn by: na1	App'd:
	Code: TIA-222-G	Date: 11/27/13	Scale: NTS
	Path:		Dwg No. E-1
	<small>\\valmont\p\proj\2013\240588\ATC\2702501\Drawn: Nitesh Ahuja Tower Corp\240588.dwg</small>		



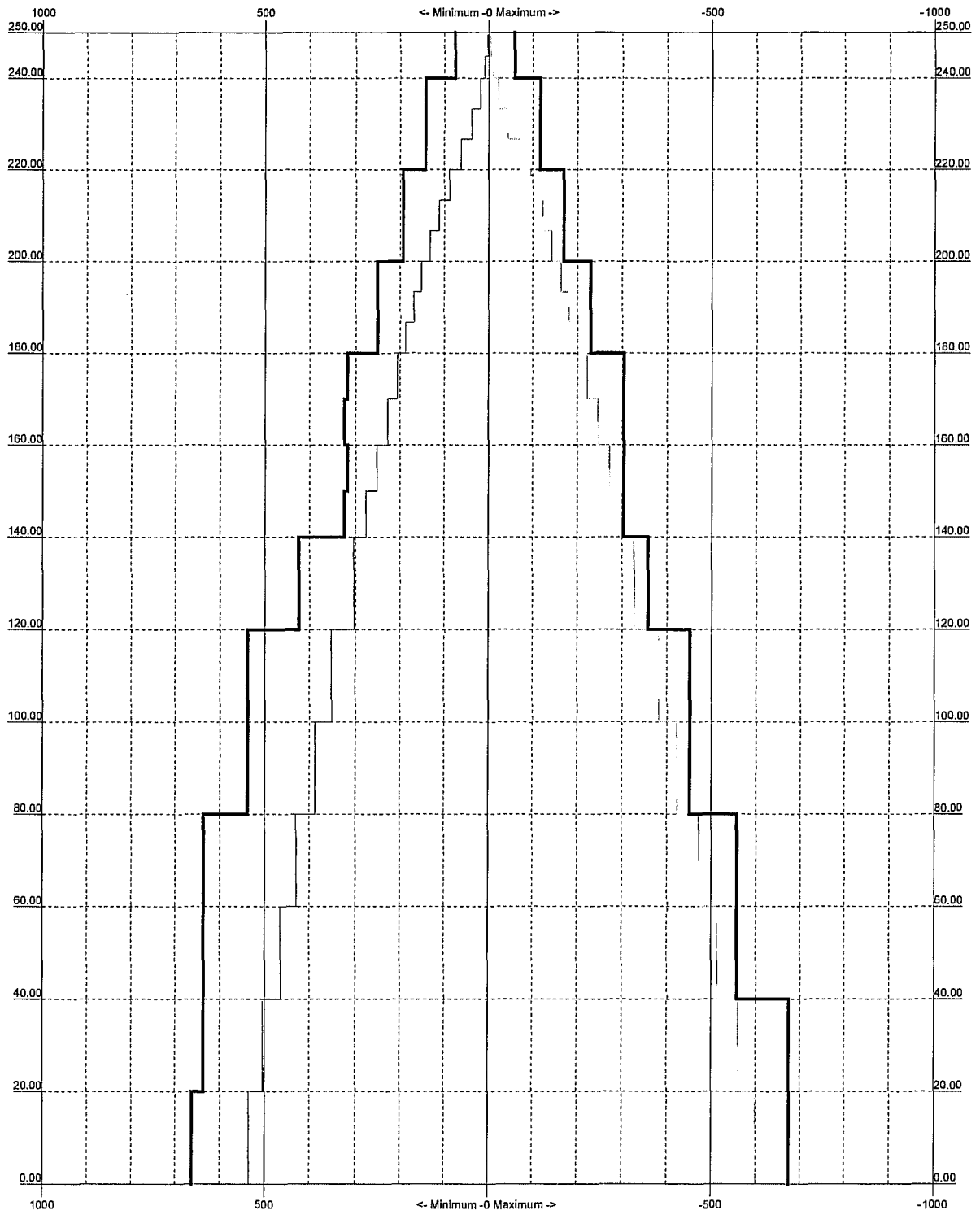
**Plot Plan**  
Total Area - 0.08 Acres




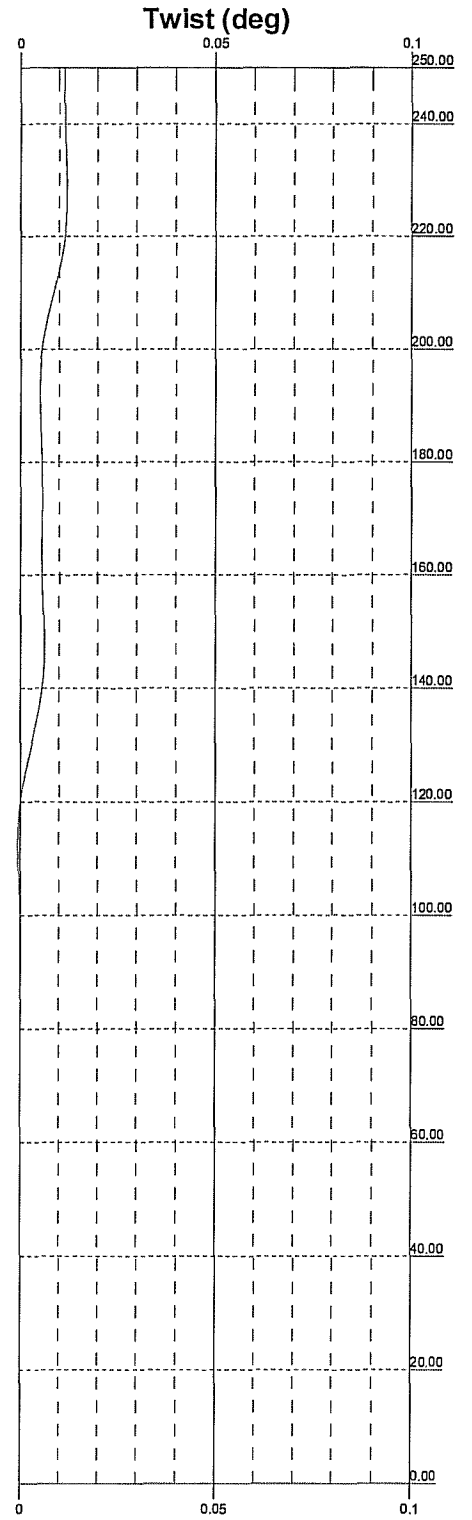
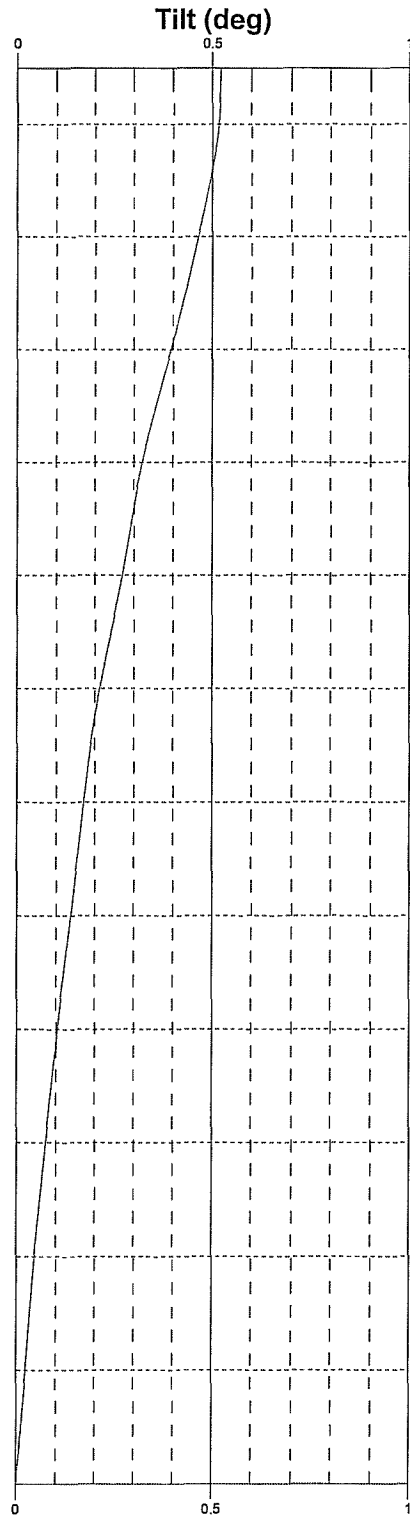
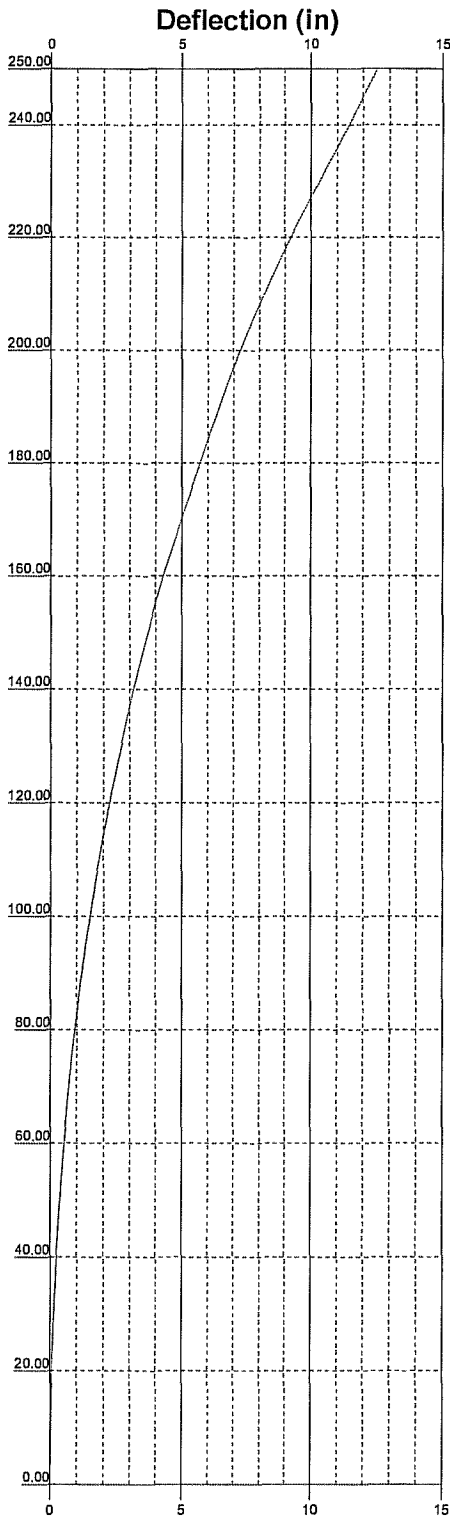
<b>valmont</b>  1545 Pidco Drive STRUCTURES Plymouth, IN 46563 Valmont Industries Inc. - Speciality Structures Group Phone: (574) 936-4221 FAX: (574) 936-6458	Job: <b>240588</b>	Project: <b>V-27 x 250' - #282071, LG&amp;E Trimble, KY</b>	
	Client: American Tower Corp.	Drawn by: na1	App'd:
	Code: TIA-222-G	Data: 11/27/13	Scale: NTS
	Path:		Dwg No. E-2
	<small>\\p011\work\Documents\240588 ATG-V112501 G&amp;E Tower KY02 Tower Cwp\240588.dwg</small>		


TIA-222-G - 90 mph/30 mph 0.7500 in Ice Exposure C

Leg Capacity ——— Leg Compression (K)



 <p>1545 Pidco Drive STRUCTURES Plymouth, IN 46563 Valmont Industries Inc. - Speciality Structures Group Phone: (574) 936-4221 FAX: (574) 936-6458</p>	Job: <b>240588</b>
	Project: <b>V-27 x 250' - #282071, LG&amp;E Trimble, KY</b>
	Client: American Tower Corp. Drawn by: na1 App'd:
	Code: TIA-222-G Date: 11/27/13 Scale: NTS
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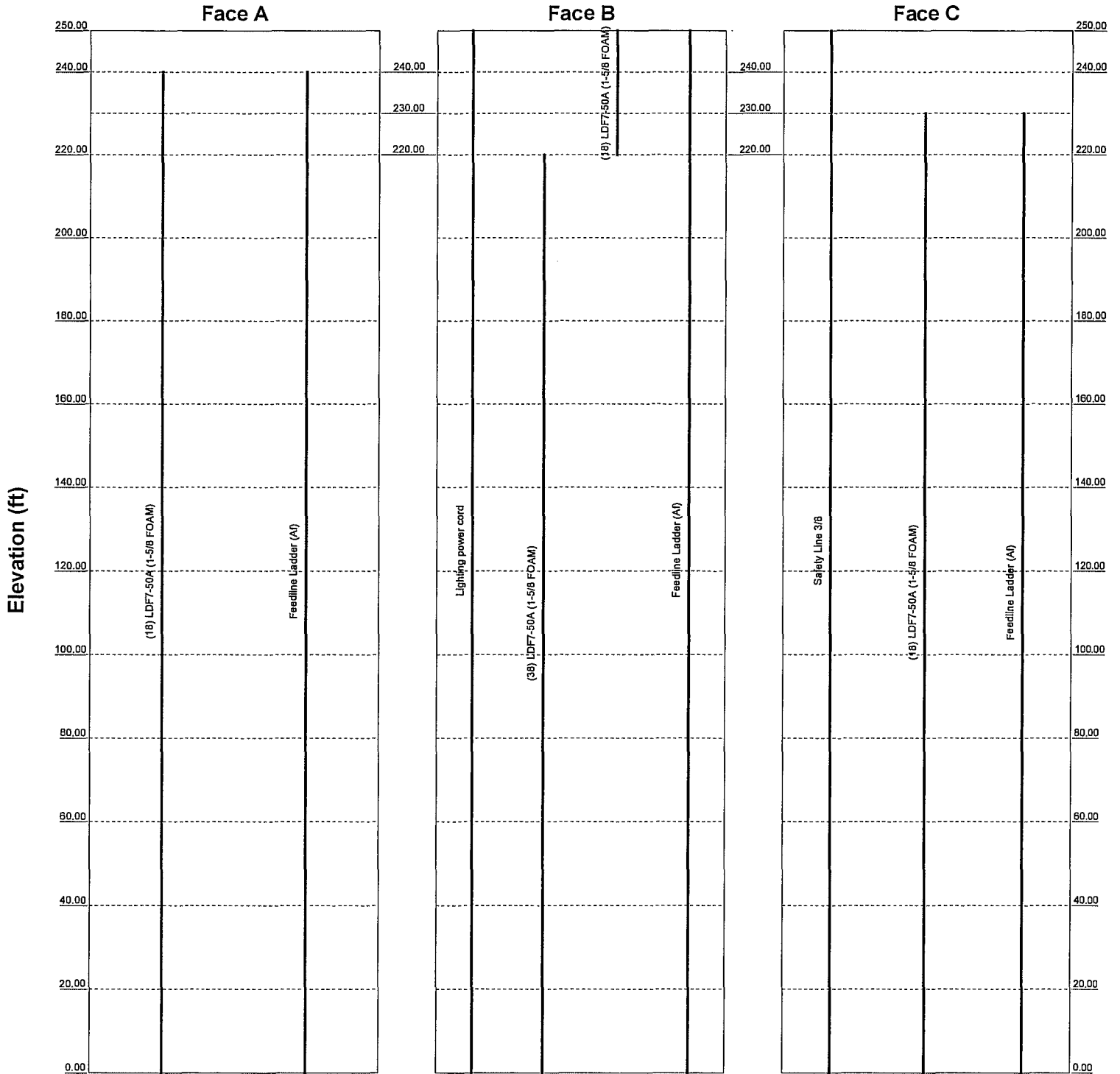


 <p>1545 Pidco Drive STRUCTURES Plymouth, IN 46563 Valmont Industries Inc. - Speciality Structures Group Phone: (574) 936-4221 FAX: (574) 936-6458</p>	Job: <b>240588</b>
	Project: <b>V-27 x 250' - #282071, LG&amp;E Trimble, KY</b>
	Client: American Tower Corp. Drawn by: na1 App'd:
	Code: TIA-222-G Date: 11/27/13 Scale: NTS
	Path: <small>\\valmont\fileserver\Documents\240588\TIA-222-G\240588.dwg</small> Dwg No. <b>E-5</b>

# Feedline Distribution Chart

## 0' - 250'

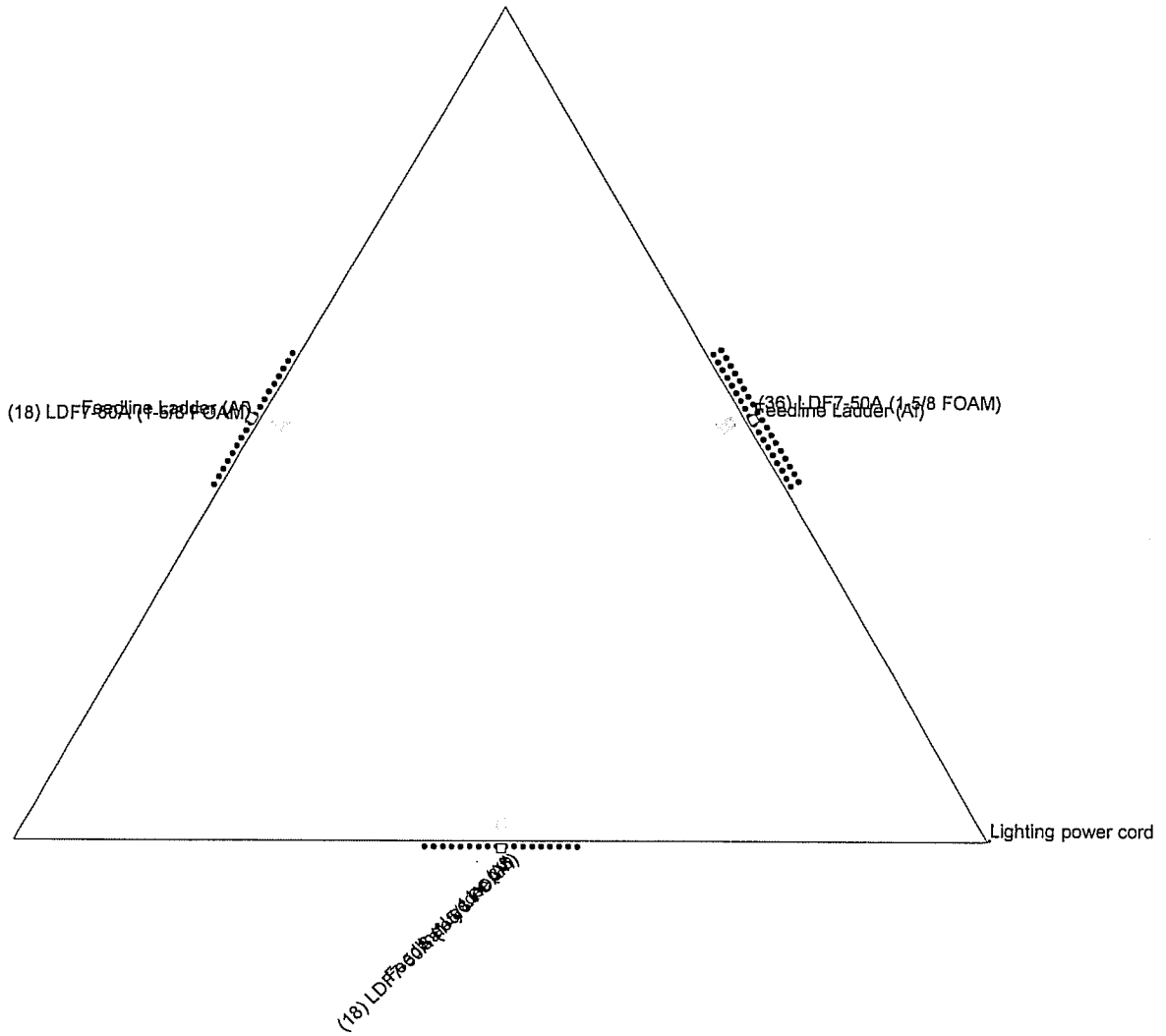
Round \_\_\_\_\_ Flat \_\_\_\_\_ App In Face \_\_\_\_\_ App Out Face \_\_\_\_\_ Truss Leg \_\_\_\_\_



<p style="margin: 0;">1545 Pidco Drive STRUCTURES Plymouth, IN 46563 Valmont Industries Inc. - Speciality Structures Group Phone: (574) 936-4221 FAX: (574) 936-6458</p>	Job: <b>240588</b>		
	Project: <b>V-27 x 250' - #282071, LG&amp;E Trimble, KY</b>		
	Client: American Tower Corp.	Drawn by: na1	App'd:
	Code: TIA-222-G	Date: 11/27/13	Scale: NTS
	Path: <small>\\valmont\1\structure\Documents\240588 ATC\27\2701\Draw\Truss KV27 Tower Cals\240588.dwg</small>		Dwg No. <b>E-7</b>

# Feedline Plan

\_\_\_\_\_ Round \_\_\_\_\_ Flat \_\_\_\_\_ App In Face \_\_\_\_\_ App Out Face \_\_\_\_\_ Truss-Leg



<b>valmont</b>	1545 Pidco Drive		
	STRUCTURES Plymouth, IN 46563		
	Valmont Industries Inc. - Specialty Structures Group		
	Phone: (574) 936-4221 FAX: (574) 936-6458		
Job:	240588		
Project:	V-27 x 250' - #282071, LG&E Trimble, KY		
Client:	American Tower Corp.	Drawn by:	na1
Code:	TIA-222-G	Date:	11/27/13
Path:		Scale:	NTS
		Dwg No.:	E-7











inxTower Job 240588 Page 17 of 59
Project V-27 x 250' - #282071, LG&E Trimble, KY
Client American Tower Corp.
Designed by na1

inxTower Job 240588 Page 18 of 59
Project V-27 x 250' - #282071, LG&E Trimble, KY
Client American Tower Corp.
Designed by na1

Table with columns: Section Elevation, Add Weight, Self Weight, F a e e, s, Cx, qz, Dz, Dd, Ax, F, w, Ctrl Face. Rows include elevations from 240.00-220.00 to 20.00-0.00.

Table with columns: Section Elevation, Add Weight, Self Weight, F a e e, s, Cx, qz, Dz, Dd, Ax, F, w, Ctrl Face. Rows include elevations from 200.00-180.00 to 20.00-0.00.

Tower Forces - No Ice - Wind 60 To Face

Table with columns: Section Elevation, Add Weight, Self Weight, F a e e, s, Cx, qz, Dz, Dd, Ax, F, w, Ctrl Face. Rows include elevations from 250.00-240.00 to 20.00-0.00.

Tower Forces - No Ice - Wind 90 To Face

Table with columns: Section Elevation, Add Weight, Self Weight, F a e e, s, Cx, qz, Dz, Dd, Ax, F, w, Ctrl Face. Rows include elevations from 258.00-240.00 to 20.00-0.00.

inxTower Job 240588 Page 19 of 59
Project V-27 x 250' - #282071, LG&E Trimble, KY
Client American Tower Corp.
Designed by na1

inxTower Job 240588 Page 20 of 59
Project V-27 x 250' - #282071, LG&E Trimble, KY
Client American Tower Corp.
Designed by na1

Table with columns: Section Elevation, Add Weight, Self Weight, F a e e, s, Cx, qz, Dz, Dd, Ax, F, w, Ctrl Face. Rows include elevations from 160.00-140.00 to 20.00-0.00.

Table with columns: Section Elevation, Add Weight, Self Weight, F a e e, s, Cx, qz, Dz, Dd, Ax, F, w, Ctrl Face. Rows include elevations from 120.00-100.00 to 20.00-0.00.

Tower Forces - With Ice - Wind Normal To Face

Table with columns: Section Elevation, Add Weight, Self Weight, F a e e, s, Cx, qz, Dz, Dd, Ax, F, w, Ctrl Face. Rows include elevations from 250.00-240.00 to 20.00-0.00.

Tower Forces - With Ice - Wind 60 To Face

Table with columns: Section Elevation, Add Weight, Self Weight, F a e e, s, Cx, qz, Dz, Dd, Ax, F, w, Ctrl Face. Rows include elevations from 250.00-240.00 to 20.00-0.00.















<b>tnxTower</b>  1545 Pidas Drive Plymouth, IN 46363 Phone: (317) 936-4321 FAX: (317) 936-6438	Job	240588	Page	45 of 59
	Project	V-27 x 250' - #282071, LG&E Trimble, KY	Date	10:08:56 11/27/13
	Client	American Tower Corp.	Designed by	na1

<b>tnxTower</b>  1545 Pidas Drive Plymouth, IN 46363 Phone: (317) 936-4321 FAX: (317) 936-6438	Job	240588	Page	46 of 59
	Project	V-27 x 250' - #282071, LG&E Trimble, KY	Date	10:08:56 11/27/13
	Client	American Tower Corp.	Designed by	na1

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T2	240-220	Leg	Max. Vx	10	0.00	0.00	0.00
			Max. Vy	7	62.73	0.14	-0.09
		Diagonal	Max. Compression	2	-68.87	0.02	1.30
			Max. Tension	8	32.44	-2.34	0.26
			Max. Mx	14	3123	-0.08	-2.45
			Max. My	8	-1.23	0.63	-0.54
			Max. Vx	2	1.20	0.11	-0.71
			Max. Vy	24	10.79	0.06	0.00
			Max. Compression	12	-11.12	0.00	0.00
			Max. Tension	5	-3.86	-0.06	0.00
Max. Mx	8	-10.80	-0.04	0.02			
Max. My	27	-0.02	0.03	0.00			
T3	220-200	Leg	Max. Vx	10	-0.00	0.00	0.00
			Max. Vy	7	132.30	0.12	-0.01
		Diagonal	Max. Compression	2	-142.43	2.48	-0.01
			Max. Tension	18	96.18	1.61	-0.01
			Max. Mx	8	-4.58	-0.02	2.38
			Max. My	14	0.96	-3.58	0.22
			Max. Vx	16	0.90	0.08	-1.43
			Max. Vy	12	8.37	0.00	0.00
			Max. Compression	12	-8.79	0.00	0.00
			Max. Tension	5	-4.43	-0.06	-0.00
Max. Mx	24	-8.23	-0.04	-0.02			
Max. My	27	-0.03	0.03	0.00			
T4	200-180	Leg	Max. Vx	24	0.00	0.00	0.00
			Max. Vy	7	187.85	-3.27	-0.00
		Diagonal	Max. Compression	2	-201.87	-4.31	-0.02
			Max. Tension	8	-6.10	-0.03	2.40
			Max. Mx	2	1.24	3.34	-0.01
			Max. My	4	-0.47	0.06	-1.16
			Max. Vx	12	8.95	0.00	8.00
			Max. Vy	12	-9.04	0.00	0.00
			Max. Compression	4	3.76	0.18	-0.00
			Max. Tension	24	8.66	-0.06	-0.03
Max. Mx	27	-0.04	0.03	-0.00			
Max. My	24	0.01	0.00	0.00			
T5	180-160	Leg	Max. Vx	7	228.89	-5.66	-0.81
			Max. Vy	2	-245.69	11.07	-0.53
		Diagonal	Max. Compression	2	-221.84	16.33	-0.03
			Max. Tension	8	-8.87	-0.29	11.41
			Max. Mx	11	-2.41	-6.32	-0.02
			Max. My	8	-1.53	5.17	10.70
			Max. Vx	12	9.28	0.00	0.00
			Max. Vy	12	-9.04	0.00	0.00
			Max. Compression	2	6.18	0.13	-0.00
			Max. Tension	31	0.29	3.07	0.01
Max. Mx	27	-0.03	0.09	0.01			
Max. My	31	-0.03	0.00	0.00			
T6	160-140	Leg	Max. Vx	2	216.91	1.83	-0.01
			Max. Vy	2	-299.04	8.93	-0.12
		Diagonal	Max. Compression	2	-271.29	15.65	-0.04
			Max. Tension	8	-1.16	-0.41	11.60
			Max. Mx	18	-1.60	13.63	-0.01
			Max. My	8	-1.11	-0.41	11.60
			Max. Vx	10	10.15	0.00	0.00
			Max. Vy	10	-9.31	0.00	0.00
			Max. Compression	6	7.30	0.14	0.00
			Max. Tension	24	-9.74	-0.06	-0.04
Max. Mx	29	0.06	8.08	-0.01			
Max. My	24	0.01	0.00	0.00			

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T7	140-120	Leg	Max. Vx	7	303.87	-4.17	-0.01
			Max. Vy	2	-327.24	21.76	0.18
		Diagonal	Max. Compression	18	-326.41	21.79	-0.01
			Max. Tension	8	-12.53	0.27	12.53
			Max. Mx	18	-1.53	21.79	-0.01
			Max. My	16	-0.73	0.27	12.52
			Max. Vx	23	15.79	0.00	0.00
			Max. Vy	10	-17.71	0.00	0.00
			Max. Compression	6	13.54	-0.27	-0.91
			Max. Tension	24	-15.72	0.06	0.07
Max. Mx	29	-0.10	-0.23	-0.03			
Max. My	29	-0.01	0.00	0.00			
T8	120-100	Leg	Max. Vx	7	312.24	8.01	-0.91
			Max. Vy	2	-382.21	23.05	-0.18
		Diagonal	Max. Compression	19	-376.56	20.09	-0.01
			Max. Tension	8	-1.57	-0.20	11.32
			Max. Mx	18	-1.68	20.08	-0.01
			Max. My	10	-0.40	-10.42	10.33
			Max. Vx	10	14.70	0.00	0.00
			Max. Vy	12	-15.62	0.00	0.00
			Max. Compression	29	1.54	-0.30	-0.93
			Max. Tension	30	0.84	-0.30	0.03
Max. Mx	29	-0.12	-0.30	-0.55			
Max. My	30	0.01	0.00	0.00			
T9	100-80	Leg	Max. Vx	7	388.54	0.82	-0.01
			Max. Vy	2	-424.01	20.06	-0.20
		Diagonal	Max. Compression	18	-422.99	20.08	-0.01
			Max. Tension	8	-17.69	0.42	19.13
			Max. Mx	19	-1.30	19.97	-0.00
			Max. My	16	-0.67	0.42	10.14
			Max. Vx	23	14.81	0.00	0.00
			Max. Vy	10	-16.52	0.00	0.00
			Max. Compression	29	1.04	-0.34	-0.06
			Max. Tension	28	1.32	-0.31	0.06
Max. Mx	29	-0.13	-0.34	-0.06			
Max. My	32	-0.01	0.00	0.00			
T10	80-60	Leg	Max. Vx	7	430.07	3.03	-0.91
			Max. Vy	2	-472.27	16.02	-0.15
		Diagonal	Max. Compression	22	-424.09	-16.32	-0.16
			Max. Tension	4	-21.20	-0.54	-13.74
			Max. Mx	22	1.24	-16.32	-0.16
			Max. My	16	-0.68	-0.54	13.72
			Max. Vx	12	14.83	0.00	0.00
			Max. Vy	12	-16.15	0.00	0.00
			Max. Compression	29	0.82	-0.32	8.08
			Max. Tension	27	-0.60	0.31	0.08
Max. Mx	29	-0.19	-0.32	-0.08			
Max. My	27	0.01	0.00	0.00			
T11	60-40	Leg	Max. Vx	7	463.06	0.99	-0.90
			Max. Vy	2	-514.03	18.80	-0.15
		Diagonal	Max. Compression	18	-512.84	18.82	0.00
			Max. Tension	24	-21.13	-0.78	6.57
			Max. Mx	18	-1.26	18.82	0.00
			Max. My	4	-0.36	-0.76	-6.56
			Max. Vx	23	15.85	0.00	0.00
			Max. Vy	10	-17.21	0.00	0.00
			Max. Compression	29	1.77	-0.56	-0.09
			Max. Tension	28	1.86	-0.56	0.09
Max. Mx	29	-0.20	-0.56	-0.09			
Max. My	29	0.01	0.00	0.00			
T12	40-20	Leg	Max. Vx	7	504.62	0.78	-0.08

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	Client	American Tower Corp.	Designed by	na1

<b>tnxTower</b>  1545 Pidas Drive Plymouth, IN 46363 Phone: (317) 936-4321 FAX: (317) 936-6438	Job	240588	Page	48 of 59
	Project	V-27 x 250' - #282071, LG&E Trimble, KY	Date	10:08:56 11/27/13
	Client	American Tower Corp.	Designed by	na1

Section No.	Elevation ft	Component Type	Condition	Gov. Load Comb.	Axial K	Major Axis Moment kip-ft	Minor Axis Moment kip-ft
T13	30-0	Leg	Max. Vx	2	-561.53	13.16	-0.12
			Max. Vy	22	496.43	-14.11	-0.15
		Diagonal	Max. Compression	4	-27.88	-0.74	-18.29
			Max. Tension	4	1.13	-0.74	-18.29
			Max. Vx	10	16.16	0.00	0.00
			Max. Vy	12	-16.29	0.00	0.00
			Max. Compression	29	-0.03	-0.68	0.10
			Max. Tension	22	-16.07	-0.24	0.10
			Max. Mx	29	-0.22	-0.68	0.10
			Max. My	29	0.01	0.00	0.00
			Max. Vx	7	535.26	-1.14	-0.00
			Max. Vy	2	-598.87	9.19	-0.09
			Max. Compression	18	-397.51	9.20	-0.00
			Max. Tension	21	-27.78	-4.93	11.82
Max. Mx	18	-0.64	9.20	-0.00			
Max. My	4	-0.72	-1.04	-11.79			
Diagonal	Max. Tension	15	17.54	0.00	0.00		
	Max. Compression	10	-19.62	0.00	0.00		
	Max. Mx	30	2.53	-0.63	-0.10		
	Max. My	31	2.01	-0.63	-0.10		
	Max. Vx	30	-0.22	-0.65	-0.10		
	Max. Vy	31	-0.01	0.00	0.00		

Load Combination	Vertical K	Shear, K	Shear, K	Overturning Moment, M <sub>1</sub> kip-ft	Overturning Moment, M <sub>2</sub> kip-ft	Torque kip-ft																								
							Dead Only	1.2 Dead+1.6 Wind 0 deg - No Ice	0.9 Dead+1.6 Wind 0 deg - No Ice	1.2 Dead+1.6 Wind 30 deg - No Ice	0.9 Dead+1.6 Wind 30 deg - No Ice	1.2 Dead+1.6 Wind 60 deg - No Ice	0.9 Dead+1.6 Wind 60 deg - No Ice	1.2 Dead+1.6 Wind 90 deg - No Ice	0.9 Dead+1.6 Wind 90 deg - No Ice	1.2 Dead+1.6 Wind 120 deg - No Ice	0.9 Dead+1.6 Wind 120 deg - No Ice	1.2 Dead+1.6 Wind 150 deg - No Ice	0.9 Dead+1.6 Wind 150 deg - No Ice	1.2 Dead+1.6 Wind 180 deg - No Ice	0.9 Dead+1.6 Wind 180 deg - No Ice	1.2 Dead+1.6 Wind 210 deg - No Ice	0.9 Dead+1.6 Wind 210 deg - No Ice	1.2 Dead+1.6 Wind 240 deg - No Ice	0.9 Dead+1.6 Wind 240 deg - No Ice	1.2 Dead+1.6 Wind 270 deg - No Ice	0.9 Dead+1.6 Wind 270 deg - No Ice	1.2 Dead+1.6 Wind 300 deg - No Ice	0.9 Dead+1.6 Wind 300 deg - No Ice	1.2 Dead+1.6 Wind 330 deg - No Ice
Dead Only	78.33	-0.00	0.00	-8.51	-14.57	-0.00																								
1.2 Dead+1.6 Wind 0 deg - No Ice	94.02	-0.00	-94.39	-13819.92	-17.75	11.24																								
0.9 Dead+1.6 Wind 0 deg - No Ice	70.32	-0.00	-94.39	-13794.78	-13.21	7.20																								
1.2 Dead+1.6 Wind 30 deg - No Ice	94.02	43.70	-75.70	-11287.16	-630.61	11.20																								
0.9 Dead+1.6 Wind 30 deg - No Ice	70.32	43.70	-75.70	-11265.87	-651.31	7.18																								
1.2 Dead+1.6 Wind 60 deg - No Ice	94.02	79.45	-45.87	-6760.67	-11709.30	0.13																								
0.9 Dead+1.6 Wind 60 deg - No Ice	70.32	79.45	-45.87	-6746.97	-11683.84	0.16																								
1.2 Dead+1.6 Wind 90 deg - No Ice	94.02	87.41	8.00	-12.38	-13040.15	-7.03																								
0.9 Dead+1.6 Wind 90 deg - No Ice	70.32	87.41	0.00	-9.71	-13014.09	-7.02																								
1.2 Dead+1.6 Wind 120 deg - No Ice	94.02	81.75	47.20	6894.34	-11977.18	-11.19																								
0.9 Dead+1.6 Wind 120 deg - No Ice	70.32	81.75	47.20	6885.67	-11953.22	-11.15																								
1.2 Dead+1.6 Wind 150 deg - No Ice	94.02	43.70	75.70	11268.40	-6577.34	-12.35																								
0.9 Dead+1.6 Wind 150 deg - No Ice	70.32	43.70	75.70	11252.24	-6512.14	-12.30																								
1.2 Dead+1.6 Wind 180 deg - No Ice	94.02	-0.00	91.74	13490.27	-17.75	-10.73																								
0.9 Dead+1.6 Wind 180 deg - No Ice	70.32	-0.00	91.74	13470.68	-13.21	-10.71																								
1																														

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	Client American Tower Corp.	Designed by na1

Load Combination	Vertical K	Shear, K	Shear, K	Overturning Moment, M, kip-ft	Overturning Moment, M, kip-ft	Torque kip-ft
dg11.0 fact-1.8 Temp	287.72	-0.00	10.22	1509.14	-72.45	-0.33
1.2 Dead+1.0 Wind 180	287.72	-5.13	8.88	1384.21	697.33	-0.33
dg11.8 fact-1.0 Temp	287.72	-5.13	8.88	1384.21	697.33	-0.33
1.2 Dead+1.0 Wind 210	287.72	-8.97	5.18	747.92	1273.47	-0.23
dg11.0 fact-1.8 Temp	287.72	-10.26	0.08	-79.16	1467.17	-0.07
1.2 Dead+1.0 Wind 240	287.72	-8.85	-5.11	-298.29	1239.74	0.18
dg11.0 fact-1.0 Temp	287.72	-5.13	-8.88	-1362.58	697.37	0.24
1.2 Dead+1.0 Wind 300	78.35	-0.80	-26.22	-3840.73	-14.71	3.12
Dead+Wind 0 deg - Service	78.35	12.14	-21.03	-1318.18	-1821.53	1.94
Dead+Wind 60 deg - Service	78.35	-22.07	-12.74	-1881.78	-2281.13	0.04
Dead+Wind 90 deg - Service	78.35	24.28	0.08	-8.62	-3628.34	-1.90
Dead+Wind 120 deg - Service	78.35	-22.71	13.11	1907.45	-3333.43	-3.18
Dead+Wind 150 deg - Service	78.35	12.14	21.03	3120.90	-1821.52	-3.48
Dead+Wind 180 deg - Service	78.35	-0.80	25.44	3737.74	-14.71	-2.96
Dead+Wind 210 deg - Service	78.35	-12.14	21.03	3120.90	1792.10	-1.94
Dead+Wind 240 deg - Service	78.35	-22.71	13.11	1907.45	3304.01	-0.85
Dead+Wind 270 deg - Service	78.35	-22.07	-12.74	-1881.79	2598.93	1.90
Dead+Wind 300 deg - Service	78.35	-22.07	-12.74	-1881.79	3252.92	2.97
Dead+Wind 330 deg - Service	78.35	-12.14	-21.03	-1318.10	1792.12	3.48

### Solution Summary

Load Comb.	Sum of Applied Forces FX K	Sum of Applied Forces FY K	Sum of Applied Forces FZ K	Sum of Reactions FX K	Sum of Reactions FY K	Sum of Reactions FZ K	% Error
1	8.00	-78.35	8.08	0.00	78.35	-0.00	8.000%
2	0.00	-94.02	-94.39	8.00	94.39	0.002%	
3	8.00	-78.35	-94.39	0.00	94.39	0.002%	
4	13.78	-94.02	-75.70	-43.70	94.02	75.70	0.002%
5	43.70	-78.35	-75.70	-43.70	78.35	75.70	0.002%
6	78.45	-94.02	-43.87	-78.45	94.02	43.87	0.002%
7	78.45	-78.35	-43.87	-78.45	78.35	-43.87	0.002%
8	94.02	0.00	0.00	94.02	0.00	0.002%	
9	87.41	-78.35	8.08	-87.41	78.35	-0.00	0.002%
10	81.75	-94.02	47.20	-81.75	94.02	-47.28	0.002%
11	81.75	-78.35	47.20	-81.75	78.35	-47.20	0.002%
12	43.70	-94.02	75.70	-43.70	94.02	-75.70	0.002%
13	43.70	-78.35	75.70	-43.70	78.35	-75.70	0.002%
14	0.88	-94.82	0.00	91.74	94.02	-91.74	0.002%
15	0.88	-78.35	0.00	78.35	0.00	-91.74	0.002%
16	-43.78	-94.02	75.70	43.78	94.02	-75.70	0.002%
17	-43.70	-78.35	75.70	43.70	78.35	-75.70	0.002%
18	-81.75	-94.82	47.20	81.75	94.02	-47.20	0.002%
19	-81.75	-78.35	47.20	81.75	78.35	-47.28	0.002%
20	-87.41	-94.02	0.00	87.41	94.02	-0.00	0.002%
21	-87.41	-78.35	0.00	87.41	78.35	-0.00	0.002%
22	-78.45	-94.02	-43.87	78.45	94.02	43.87	0.002%
23	-78.45	-78.35	-43.87	78.45	78.35	43.87	0.002%
24	-43.70	-94.02	-75.70	43.70	94.02	75.70	0.002%
25	-43.70	-78.35	-75.70	43.70	78.35	75.70	0.002%
26	0.00	-287.72	8.00	0.00	287.72	-0.00	8.000%
27	0.00	-287.72	-18.36	0.88	287.72	10.36	0.000%

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Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt "	Twist "
29	Yes	12	0.00000001	0.80010155	
30	Yes	12	0.00000001	0.80010155	
31	Yes	12	0.00000001	0.80009866	
32	Yes	12	0.00000001	0.80009674	
33	Yes	12	0.00000001	8.88009531	
34	Yes	12	0.80000001	0.80009513	
35	Yes	12	0.00000001	0.80009500	
36	Yes	12	0.00000001	0.80009296	
37	Yes	12	0.00000001	0.80009284	
38	Yes	12	0.00000001	0.80009149	
39	Yes	12	0.00000001	0.80009111	
40	Yes	12	0.00000001	0.80009100	
41	Yes	12	0.00000001	0.80009072	
42	Yes	12	0.00000001	0.80009049	
43	Yes	12	0.80000001	0.80009030	
44	Yes	12	0.00000001	0.80009042	
45	Yes	12	0.00000001	0.80009093	
46	Yes	12	0.80000001	0.80009042	
47	Yes	12	0.00000001	0.80009035	
48	Yes	12	0.00000001	0.80009045	
49	Yes	12	0.00000001	0.80009098	
50	Yes	12	0.80000001	0.80009046	

### Maximum Tower Deflections - Service Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt "	Twist "
T1	250 - 240	12.548	39	6.5227	0.0122
T2	240 - 228	11.433	39	8.5139	0.0113
T3	220 - 200	9.219	39	4.4631	0.0086
T4	200 - 180	7.251	39	0.3928	0.0063
T5	180 - 160	5.704	39	0.3203	0.0050
T6	160 - 140	4.289	39	0.2692	0.0040
T7	140 - 120	3.155	39	0.2130	0.0031
T8	120 - 100	2.226	39	0.1711	0.0024
T9	100 - 80	1.497	39	0.1378	0.0018
T10	80 - 60	0.931	39	0.1027	0.0012
T11	60 - 40	0.517	39	0.0743	0.0009
T12	40 - 20	0.237	39	0.0462	0.0006
T13	20 - 0	0.060	39	0.0278	0.0003

### Critical Deflections and Radius of Curvature - Service Wind

Elevation ft	Appearance	Gov. Load Comb.	Deflection in	Tilt "	Twist "	Radius of Curvature ft
250.00	Beacon	39	12.548	6.5227	0.0122	49708
240.00	ATC Loading	39	11.433	8.5139	0.0113	36682
230.00	ATC Loading	39	10.320	8.4457	0.0101	7813
220.00	ATC Loading	39	9.219	8.4631	0.0086	15079

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Load Comb.	FX K	FY K	FZ K	PX K	FY K	FZ K	% Error
28	5.13	-287.72	-8.88	-5.13	287.72	8.88	0.000%
29	8.85	-287.72	-5.11	-8.85	287.72	5.11	0.000%
30	18.26	-287.72	8.00	-10.26	287.72	-0.00	0.000%
31	8.97	-287.72	5.18	-8.97	287.72	-5.18	8.000%
32	5.13	-287.72	8.88	-5.13	287.72	-8.88	0.000%
33	0.00	-287.72	10.22	0.00	287.72	-10.22	0.000%
34	-5.13	-287.72	8.88	5.13	287.72	-8.88	8.000%
35	-8.97	-287.72	5.18	8.97	287.72	-5.18	8.000%
36	-10.26	-287.72	0.00	10.26	287.72	-0.00	0.000%
37	-8.85	-287.72	-5.11	8.85	287.72	5.11	0.000%
38	-5.13	-287.72	-8.88	5.13	287.72	8.88	0.000%
39	0.00	-287.72	0.00	0.00	287.72	26.22	0.001%
40	12.14	-78.35	-21.03	-12.14	78.35	21.03	0.001%
41	22.87	-78.35	-12.74	-22.87	78.35	12.74	0.001%
42	24.28	-78.35	8.80	-24.28	78.35	-0.00	0.001%
43	22.71	-78.35	13.11	-22.71	78.35	-13.11	0.001%
44	12.14	-78.35	21.03	-12.14	78.35	-21.03	0.001%
45	-0.00	-78.35	25.48	0.00	78.35	-0.00	0.001%
46	-12.14	-78.35	21.03	12.14	78.35	-21.03	0.001%
47	-22.71	-78.35	13.11	22.71	78.35	-13.11	0.001%
48	-24.28	-78.35	0.00	24.28	78.35	-0.00	0.001%
49	-22.07	-78.35	-12.74	22.07	78.35	12.74	0.001%
50	-12.14	-78.35	-21.03	12.14	78.35	21.03	0.001%

### Non-Linear Convergence Results

Load Combination	Converged?	Number of Cycles	Displacement Tolerance	Force Tolerance
1	Yes	7	0.00000001	0.00012323
2	Yes	12	0.00000001	0.00009523
3	Yes	12	0.00000001	0.00008570
4	Yes	12	0.00000001	0.00010592
5	Yes	12	0.80000001	8.00009460
6	Yes	12	8.00009523	0.08818978
7	Yes	12	0.00000001	0.00010061
8	Yes	12	0.00000001	0.00010592
9	Yes	12	0.80000001	0.00009460
10	Yes	12	0.80000001	0.00009524
11	Yes	12	0.00000001	0.00008570
12	Yes	12	0.00000001	0.00009457
13	Yes	12	0.00000001	0.00010976
14	Yes	12	0.80003322	0.00010976
15	Yes	12	0.00000001	0.00010592
16	Yes	12	0.00000001	0.00010529
17	Yes	12	0.00000001	0.00009459
18	Yes	12	0.00000001	0.00009524
19	Yes	12	0.00000001	0.00008570
20	Yes	12	0.00000001	0.00010523
21	Yes	12	0.00000001	0.00009460
22	Yes	12	0.00003322	0.00010978
23	Yes	12	0.00000001	0.00010592
24	Yes	12	0.80000001	0.00010348
25	Yes	12	0.80000001	0.00009459
26	Yes	9	0.00000001	0.00009462
27	Yes	12	0.00000001	0.00009462
28	Yes	12	0.80000001	0.80010002

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### Maximum Tower Deflections - Design Wind

Section No.	Elevation ft	Horz. Deflection in	Gov. Load Comb.	Tilt "	Twist "
T1	250 - 240	43.097	2	1.8772	0.0442
T2	240 - 220	41.165	2	1.8532	0.0410
T3	220 - 200	33.148	2	1.6717	0.0313
T4	200 - 180	26.067	2	1.4120	0.0228
T5	180 - 160	22.505	2	1.1515	0.0188
T6	160 - 140	15.419	2	0.9675	0.0144
T7	140 - 120	11.345	2	0.7654	0.0111
T8	120 - 100	8.004	2	0.6158	0.0084
T9	100 -				

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Section No.	Elevation ft	Component Type	Bolt Grade	Bolt Size In	Number Of Bolts	Maximum Load Per Bolt K	Allowable Load K	Ratio Load Allowable	Allowable Ratio	Criteria
T7	140	Leg	A325N	1.0000	12	25.32	53.01	0.478	1	Bolt Tension
		Diagonal	A325N	0.8758	1	15.79	31.32	0.504	1	Member Bearing
T8	120	Leg	A325N	1.0000	12	29.35	53.01	0.554	1	Bolt Tension
		Diagonal	A325N	0.8750	1	14.70	31.32	0.469	1	Member Bearing
T9	108	Leg	A325N	1.0000	12	32.38	53.01	0.611	1	Bolt Tension
		Diagonal	A325N	0.8750	1	14.81	31.32	0.473	1	Member Bearing
T10	80	Leg	A325N	1.0000	12	35.84	53.01	0.676	1	Bolt Tension
		Diagonal	A325N	0.8758	1	14.83	41.76	0.355	1	Member Bearing
T11	60	Leg	A325N	1.0008	12	38.76	53.01	0.731	1	Bolt Tension
		Diagonal	A325N	0.8750	1	15.85	41.76	0.380	1	Member Bearing
T12	40	Leg	A325N	1.0000	12	42.05	53.01	0.793	1	Bolt Tension
		Diagonal	A325N	0.8750	1	16.16	41.76	0.387	1	Member Bearing
T13	20	Leg	F1554-10	1.0000	12	44.61	55.22	0.808	1	Bolt Tension
		Diagonal	A325N	0.8750	1	17.54	41.76	0.420	1	Member Bearing

**Compression Checks**

**Leg Design Data (Compression)**

Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	KV <sub>r</sub>	A in <sup>2</sup>	P <sub>s</sub> K	φP <sub>s</sub> K	Ratio P <sub>s</sub> / φP <sub>s</sub>
T1	250 - 240	P-2.50" x 0.75" conn.-10" -C (Pprod 226172)	10.08	4.79	60.7	1.7040	-10.24	58.58	0.171 <sup>1</sup>
T2	240 - 220	P-4.00" x 0.75" conn.-20" -C-Trans-6B-4B (Pprod 226184)	20.00	6.67	53.0	3.1741	-68.87	116.32	0.592 <sup>1</sup>
T3	220 - 200	P-5.00" x 0.75" conn.-Trans-20" -C (Pprod 226200)	20.03	6.68	42.7	4.2999	-142.43	169.37	0.841 <sup>1</sup>
T4	200 - 188	P-6.00" x 0.75" conn.-HBD-Trans-20" -C (Pprod 225977)	20.03	6.68	35.7	5.5813	-201.87	228.83	0.882 <sup>1</sup>
T5	180 - 168	#122Q-1.75" x 1.80" conn.-HBD-Trans (Pprod 225988)	20.03	10.02	30.4	7.2158	-245.69	303.46	0.810 <sup>1</sup>
T6	160 - 148	#122Q-1.75" x 1.80" conn.-HBD-Trans (Pprod 225988)	20.03	10.02	30.4	7.2158	-299.04	303.46	0.883 <sup>1</sup>
T7	140 - 120	#122Q-2.00" x 8.875" conn.-HBD-Trans (Pprod 208332)	20.03	20.03	48.8	9.4248	-327.24	356.29	0.913 <sup>1</sup>
T8	120 - 108	#122Q-2.25" x 0.875" conn. (Pprod 208334)	20.03	20.03	48.8	11.9282	-382.21	451.15	0.847 <sup>1</sup>

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Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	KV <sub>r</sub>	A in <sup>2</sup>	P <sub>s</sub> K	φP <sub>s</sub> K	Ratio P <sub>s</sub> / φP <sub>s</sub>
T4	200 - 180	L2 1/2x3 1/2x3/16	9.60	4.80	117.2	0.9020	-9.04	14.17	0.637 <sup>1</sup>
T5	188 - 160	L3x3x3/16	12.63	6.43	129.5	1.0900	-10.33	14.54	0.710 <sup>1</sup>
T6	160 - 140	L3x3x3/16	14.18	7.14	143.8	1.0908	-10.20	11.92	0.836 <sup>1</sup>
T7	140 - 120	L3x3x3/16	22.66	11.95	153.8	2.1800	-17.71	21.10	0.839 <sup>1</sup>
T8	120 - 100	L3x3x3/16	23.79	12.45	159.1	2.1800	-15.62	19.45	0.883 <sup>1</sup>
T9	108 - 88	L3x3x3/16	25.83	13.82	166.4	2.1800	-16.52	17.79	0.929 <sup>1</sup>
T10	80 - 60	L3 1/2x3 1/2x1/4	26.36	13.65	159.1	3.3750	-16.13	33.85	0.477 <sup>1</sup>
T11	60 - 40	L3 1/2x3 1/2x1/4	27.77	14.33	157.5	3.3750	-17.51	30.72	0.570 <sup>1</sup>
T12	40 - 20	L3 1/2x3 1/2x1/4	29.25	15.04	165.4	3.3750	-16.29	27.86	0.585 <sup>1</sup>
T13	20 - 0	L3 1/2x3 1/2x1/4	30.78	15.80	173.7	3.3750	-19.62	25.27	0.776 <sup>1</sup>

<sup>1</sup> P<sub>s</sub> / φP<sub>s</sub> controls

**Top Girt Design Data (Compression)**

Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	KV <sub>r</sub>	A in <sup>2</sup>	P <sub>s</sub> K	φP <sub>s</sub> K	Ratio P <sub>s</sub> / φP <sub>s</sub>
T1	250 - 240	L2x2x3/16	5.00	4.47	136.1	0.7150	-1.16	8.72	0.131 <sup>1</sup>

<sup>1</sup> P<sub>s</sub> / φP<sub>s</sub> controls

**Tension Checks**

**Leg Design Data (Tension)**

Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	KV <sub>r</sub>	A in <sup>2</sup>	P <sub>s</sub> K	φP <sub>s</sub> K	Ratio P <sub>s</sub> / φP <sub>s</sub>
T1	250 - 240	P-2.50" x 0.75" conn.-10" -C (Pprod 226172)	10.08	4.79	60.7	1.7040	8.54	76.68	0.111 <sup>1</sup>
T2	240 - 220	P-4.00" x 0.75" conn.-20" -C-Trans-6B-4B (Pprod 226184)	20.00	6.67	53.0	3.1741	62.73	142.83	0.439 <sup>1</sup>

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Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	KV <sub>r</sub>	A in <sup>2</sup>	P <sub>s</sub> K	φP <sub>s</sub> K	Ratio P <sub>s</sub> / φP <sub>s</sub>
T9	100 - 80	#122Q-2.25" x 0.875" conn. (Pprod 208334)	20.03	20.03	48.8	11.9282	-424.01	451.15	0.940 <sup>1</sup>
T10	80 - 60	#122Q-2.50" x 0.875" conn. (Pprod 208335)	20.03	20.03	48.7	14.7262	-472.37	557.27	0.848 <sup>1</sup>
T11	60 - 48	#122Q-2.50" x 0.875" conn. (Pprod 208335)	20.03	20.03	48.7	14.7262	-514.03	557.27	0.922 <sup>1</sup>
T12	40 - 20	#122Q-2.75" x 0.875" conn. (Pprod 208337)	20.03	20.03	48.6	17.8187	-561.53	674.68	0.832 <sup>1</sup>
T13	20 - 8	#122Q-2.75" x 0.875" conn. (Pprod 208337)	20.03	20.03	48.6	17.8187	-598.87	674.68	0.883 <sup>1</sup>

<sup>1</sup> P<sub>s</sub> / φP<sub>s</sub> controls

**Truss-Leg Diagonal Data**

Section No.	Elevation ft	Diagonal Size	L <sub>d</sub> ft	KV <sub>r</sub>	φP <sub>s</sub> K	A in <sup>2</sup>	P <sub>s</sub> K	φP <sub>s</sub> K	Stress Ratio
T5	180 - 160	0.5	1.40	94.1	324.71	0.1963	2.61	4.63	0.363
T6	160 - 140	0.5	1.48	94.1	324.71	0.1963	1.60	4.63	0.345
T7	140 - 120	0.5	1.39	93.2	424.12	0.1963	1.53	4.67	0.327
T8	120 - 100	0.5	1.38	92.4	536.77	0.1963	1.68	4.71	0.337
T9	100 - 80	0.5	1.38	92.4	536.77	0.1963	1.30	4.71	0.276
T10	80 - 60	0.5	1.36	91.6	662.68	0.1963	1.24	4.75	0.261
T11	60 - 40	0.5	1.36	91.6	662.68	0.1963	1.26	4.75	0.267
T12	40 - 20	0.625	1.35	72.6	801.84	0.3068	1.19	8.74	0.149
T13	20 - 8	0.625	1.35	72.6	801.84	0.3068	0.71	8.74	0.094

**Diagonal Design Data (Compression)**

Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	KV <sub>r</sub>	A in <sup>2</sup>	P <sub>s</sub> K	φP <sub>s</sub> K	Ratio P <sub>s</sub> / φP <sub>s</sub>
T1	250 - 240	L2x2x3/16	5.75	2.69	90.8	0.4844	-2.88	9.97	0.285 <sup>1</sup>
T2	240 - 220	L2x2x3/16	7.17	3.40	107.6	0.7150	-11.12	12.59	0.883 <sup>1</sup>
T3	220 - 200	L2x2x3/16	8.11	4.07	123.9	0.7150	-8.39	10.32	0.813 <sup>1</sup>

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Section No.	Elevation ft	Size	L ft	L <sub>w</sub> ft	KV <sub>r</sub>	A in <sup>2</sup>	P <sub>s</sub> K	φP <sub>s</sub> K	Ratio P <sub>s</sub> / φP <sub>s</sub>
T3	220 - 200	P-5.00" x 0.75" conn.-Trans-20" -C (Pprod 226200)	20.03	6.68	42.7	4.2999	-172.30	193.49	0.884 <sup>1</sup>
T4	208 - 180	P-6.00" x 0.75" conn.-HBD-Trans-20" -C (Pprod 225977)	20.03	6.68	35.7	5.5813	-187.85	251.16	0.748 <sup>1</sup>
T5	180 - 160	#122Q-1.75" x 1.80" conn.-HBD-Trans (Pprod 225988)	20.03	10.02	38.4	7.2158	-228.89	324.71	0.705 <sup>1</sup>
T6	168 - 140	#122Q-1.75" x 1.80" conn.-HBD-Trans (Pprod 225988)	20.03	10.02	30.4	7.2158	-276.92	324.71	0.853 <sup>1</sup>
T7	140 - 120	#122Q-2.00" x 8.875" conn.-HBD-Trans (Pprod 208332)	20.03	20.03	48.8	9.4248	-303.87	424.12	0.716 <sup>1</sup>
T8	120 - 100	#122Q-2.25" x 0.875" conn. (Pprod 208334)	20.03	20.03	48.8	11.9282	-352.24	536.77	0.656 <sup>1</sup>
T9	100 - 80	#122Q-2.25" x 0.875" conn. (Pprod 208334)	20.03	20.03	48.8	11.9282	-388.54	536.77	0.724 <sup>1</sup>
T10	80 - 60	#122Q-2.50" x 0.875" conn. (Pprod 208335)	20.03	20.03	48.7	14.7262	-430.07	662.68	0.649 <sup>1</sup>
T11	68 - 40	#122Q-2.50" x 0.875" conn. (Pprod 208335)	20.03	20.03	48.7	14.7262	-465.06	662.68	0.702 <sup>1</sup>
T12	40 - 20	#122Q-2.75" x 0.875" conn. (Pprod 208337)	20.03	20.03	48.6	17.8187	-504.62	801.84	0.629 <sup>1</sup>
T13	20 - 8	#122Q-2.75" x 0.875" conn. (Pprod 208337)	20.03	20.03	48.6	17.8187	-533.26	801.84	0.668 <sup>1</sup>

<sup>1</sup> P<sub>s</sub> / φP<sub>s</sub> controls

**Truss-Leg Diagonal Data**

Section No.	Elevation ft	Diagonal Size	L <sub>d</sub> ft	KV <sub>r</sub>	φP <sub>s</sub> K	A in <sup>2</sup>	P <sub>s</sub> K	φP <sub>s</sub> K	Stress Ratio
T5	180 - 160	0.5	1.40	94.1	324.71	0.1963	2.61	4.63	0.363
T6	160 - 140	0.5	1.40	94.1	324.71	0.1963	1.60	4.63	0.345
T7	140 - 120	0.5	1.39	93.2	424.12	0.1963	1.53	4.67	0.327
T8	120 - 100	0.5	1.38	92.4	536.77	0.1963	1.68	4.71	0.337
T9	100 - 80	0.5	1.38	92.4	536.77	0.1963	1.30	4.71	0.276
T10	80 - 68	0.5	1.36	91.6	662.68	0.1963	1.24	4.75	0.261
T11	60 -								

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Section No.	Elevation ft	Diagonal Size	L <sub>1</sub> ft	L <sub>2</sub> ft	K1/K2	A in <sup>2</sup>	P <sub>s</sub> K	φ <sub>P</sub> K	Ratio P <sub>s</sub> / φ <sub>P</sub>
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**Diagonal Design Data (Tension)**

Section No.	Elevation ft	Size	L <sub>1</sub> ft	L <sub>2</sub> ft	K1/K2	A in <sup>2</sup>	P <sub>s</sub> K	φ <sub>P</sub> K	Ratio P <sub>s</sub> / φ <sub>P</sub>
T1	258 - 240	L2x2x1/8	5.75	2.69	55.1	0.2813	2.62	12.23	0.214 <sup>1</sup>
T2	240 - 228	L2x2x3/16	7.17	3.40	69.7	0.4132	10.79	17.97	8.600 <sup>1</sup>
T3	220 - 208	L2x2x3/16	7.66	3.83	78.6	0.4132	8.37	17.97	0.466 <sup>1</sup>
T4	208 - 188	L2 1/2x2 1/2x3/16	9.60	4.88	76.9	0.5535	8.95	24.88	8.372 <sup>1</sup>
T5	180 - 168	L3x3x3/16	12.65	6.43	84.7	0.6593	9.28	28.68	8.324 <sup>1</sup>
T6	160 - 148	L3x3x3/16	14.18	7.14	89.7	0.6593	18.15	28.68	0.354 <sup>1</sup>
T7	140 - 128	2L3x3x3/16	22.66	11.95	155.2	1.3337	15.79	58.89	8.268 <sup>1</sup>
T8	120 - 108	2L3x3x3/16	23.79	12.45	161.5	1.3337	14.78	58.89	0.210 <sup>1</sup>
T9	108 - 80	2L3x3x3/16	25.83	13.82	168.8	1.3337	14.81	58.89	8.252 <sup>1</sup>
T10	80 - 60	2L3 1/2x3 1/2x1/4	26.36	13.65	152.1	2.1563	14.83	93.80	0.158 <sup>1</sup>
T11	68 - 48	2L3 1/2x3 1/2x1/4	27.77	14.33	159.6	2.1563	15.85	93.80	0.169 <sup>1</sup>
T12	40 - 20	2L3 1/2x3 1/2x1/4	29.25	15.04	167.5	2.1563	16.16	93.88	8.172 <sup>1</sup>
T13	28 - 0	2L3 1/2x3 1/2x1/4	30.78	15.88	175.8	2.1563	17.54	93.80	0.187 <sup>1</sup>

<sup>1</sup> P<sub>s</sub> / φ<sub>P</sub> controls

**Top Girt Design Data (Tension)**

Section No.	Elevation ft	Size	L <sub>1</sub> ft	L <sub>2</sub> ft	K1/K2	A in <sup>2</sup>	P <sub>s</sub> K	φ <sub>P</sub> K	Ratio P <sub>s</sub> / φ <sub>P</sub>
T1	250 - 248	L2x2x3/16	5.00	4.47	92.6	0.4132	1.82	17.97	0.937 <sup>1</sup>

<sup>1</sup> P<sub>s</sub> / φ<sub>P</sub> controls

**Section Capacity Table**

Section No.	Elevation ft	Component Type	Size	Critical Element	P K	φ <sub>P</sub> K	% Capacity	Pass/Fail	
T1	258 - 248	Leg	P-2.58" x 0.75" conn-10" C-(PProd 226172)	3	-18.04	58.58	17.1	Pass	
T2	248 - 220	Leg	P-4.88" x 0.75" conn-20" C-Trans-GI-48 (PProd 226184)	21	-68.87	116.32	59.2	Pass	
T3	220 - 208	Leg	P-5.88" x 0.75" conn-Trans-20" C-(PProd 226200)	42	-142.43	169.37	84.1	Pass	
T4	200 - 188	Leg	P-6.00" x 0.75" conn-1HD-Trans-28" C-(PProd 229577)	63	-201.87	228.83	88.2	Pass	
T5	188 - 168	Leg	#122G-1.75" x 1.00" conn-1HD-Trans (PProd 229588)	84	-245.69	383.46	81.8	Pass	
T6	160 - 148	Leg	#122G-2.18" x 1.00" conn-1HD-Trans (PProd 229588)	99	-299.84	303.46	98.5	Pass	
T7	140 - 120	Leg	#122G-2.18" x 0.875" conn-1HD-Trans (PProd 208332)	114	-327.24	336.29	91.8	Pass	
T8	120 - 108	Leg	#122G-2.25" x 0.875" conn. (PProd 208334)	123	-382.21	451.15	84.7	Pass	
T9	108 - 88	Leg	#122G-2.25" x 0.875" conn. (PProd 208334)	132	-424.81	451.15	94.0	Pass	
T10	80 - 60	Leg	#122G-2.58" x 0.875" conn. (PProd 208335)	141	-472.37	557.27	84.8	Pass	
T11	60 - 40	Leg	#122G-2.58" x 0.875" conn. (PProd 208335)	150	-514.03	557.27	92.2	Pass	
T12	40 - 20	Leg	#122G-2.75" x 0.875" conn. (PProd 208337)	159	-561.53	674.68	83.2	Pass	
T13	20 - 8	Leg	#122G-2.75" x 0.875" conn. (PProd 208337)	168	-598.87	674.68	88.8	Pass	
T1	250 - 240	Diagonal	L2x2x1/8	18	-2.88	9.97	28.9	Pass	
T2	240 - 220	Diagonal	L2x2x3/16	24	-11.12	12.59	88.3	Pass	
T3	228 - 200	Diagonal	L2x2x3/16	45	-8.39	18.32	81.3	Pass	
T4	208 - 188	Diagonal	L2 1/2x2 1/2x3/16	66	-9.04	14.17	63.7	Pass	
T5	180 - 168	Diagonal	L3x3x3/16	87	-18.23	14.54	71.0	Pass	
T6	160 - 140	Diagonal	L3x3x3/16	103	-18.28	11.92	85.6	Pass	
T7	148 - 128	Diagonal	2L3x3x3/16	117	-17.71	21.10	83.9	Pass	
T8	120 - 100	Diagonal	2L3x3x3/16	126	-15.62	19.45	80.3	Pass	
T9	100 - 80	Diagonal	2L3x3x3/16	135	-16.52	17.99	92.9	Pass	
T10	80 - 60	Diagonal	2L3 1/2x3 1/2x1/4	144	-16.15	35.85	47.7	Pass	
T11	68 - 48	Diagonal	2L3 1/2x3 1/2x1/4	153	-17.51	30.72	57.0	Pass	
T12	48 - 20	Diagonal	2L3 1/2x3 1/2x1/4	162	-18.29	27.86	58.5	Pass	
T13	20 - 0	Diagonal	2L3 1/2x3 1/2x1/4	171	-19.62	25.27	72.6	Pass	
T1	250 - 240	Top Girt	L2x2x3/16	5	-1.16	8.72	13.3	Pass	
								Summary	
								Leg (T6)	98.5 Pass
								Diagonal (T9)	92.9 Pass
								Top Girt (T1)	13.3 Pass
								Bolt Checks	87.5 Pass
								RATING =	98.5 Pass

<b>tnxTower</b> 1543 Pildco Drive Plymouth, IN 46563 Phone: (574) 936-4221 FAX: (574) 936-6438	Job	240588	Page	59 of 59
	Project	V-27 x 250' - #282071, LG&E Trimble, KY	Date	10:08:56 11/27/13
	Client	American Tower Corp.	Designed by	na1

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

# Universal Licensing System

[FCC](#) > [WTB](#) > [ULS](#) > [Online Systems](#) > License Search

[FCC Site Map](#)

License Search

[? HELP](#)

## Search Results

[New Search](#) [Refine Search](#) [Printable Page](#) [Query Download](#) [Map License](#)

### Specified Search

State = **Kentucky**  
 County = **TRIMBLE**  
 Radio Service = **CL, CW**

Matches **1- 10** (of **14**)

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

Page 1 2

[NEXT >](#)

Call Sign/Lease ID	Name	FRN	Radio Service	Status	Expiration Date
1 <a href="#">KNKN837</a>	Cellco Partnership	0003290673	CL	Active	10/01/2021
2 <a href="#">KNKQ255</a>	NEW CINGULAR WIRELESS PCS, LLC	0003291192	CL	Active	10/01/2020
3 <a href="#">KNKQ288</a>	New Cingular Wireless PCS, LLC	0003291192	CL	Active	10/01/2021
4 <a href="#">KNKQ391</a>	NEW CINGULAR WIRELESS PCS, LLC	0003291192	CL	Active	10/01/2020
5 <a href="#">KNLF251</a>	New Cingular Wireless PCS, LLC	0003291192	CW	Active	06/23/2015
6 <a href="#">KNLF252</a>	WIRELESSCO, L.P.	0002316545	CW	Active	06/23/2015
7 <a href="#">KNLF661</a>	NextWave Personal Communications Inc., Debtor-in-Possession	0002964922	CW	Canceled	01/03/2007
8 <a href="#">KNLG209</a>	Powertel Memphis Licenses, Inc.	0001832807	CW	Active	04/28/2017
9 <a href="#">KNLG923</a>	NEW CINGULAR WIRELESS PCS, LLC	0003291192	CW	Active	08/21/2017
10 <a href="#">KNLH397</a>	Powertel Memphis Licenses, Inc.	0001832807	CW	Active	04/28/2017

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[NEXT >](#)

<b>ULS Help</b>	<a href="#">ULS Glossary</a> - <a href="#">FAQ</a> - <a href="#">Online Help</a> - <a href="#">Technical Support</a> - <a href="#">Licensing Support</a>
<b>ULS Online Systems</b>	<a href="#">CORES</a> - <a href="#">ULS Online Filing</a> - <a href="#">License Search</a> - <a href="#">Application Search</a> - <a href="#">Archive License Search</a>
<b>About ULS</b>	<a href="#">Privacy Statement</a> - <a href="#">About ULS</a> - <a href="#">ULS Home</a>
<b>Basic Search</b>	By Call Sign <input type="text"/> = <input type="text"/> <input type="button" value="SEARCH"/>

# Universal Licensing System

[FCC](#) > [WTB](#) > [ULS](#) > [Online Systems](#) > License Search

[FCC Site Map](#)

License Search

## Search Results

[? HELP](#)

[New Search](#) [Refine Search](#) [Printable Page](#) [Query Download](#) [Map License](#)

### Specified Search

State = **Kentucky**  
 County = **TRIMBLE**  
 Radio Service = **CL, CW**

Matches **11- 14** (of **14** )

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

[PREVIOUS](#)

Page 1 of 2

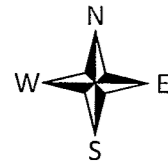
	Call Sign/Lease ID	Name	FRN	Radio Service	Status	Expiration Date
11	<a href="#">WPOI255</a>	NEW CINGULAR WIRELESS PCS, LLC	0003291192	CW	Active	06/23/2015
12	<a href="#">WQCS429</a>	Cellco Partnership	0003290673	CW	Active	05/13/2015
13	<a href="#">WQCX684</a>	T-Mobile License LLC	0001565449	CW	Active	06/20/2015
14	<b>PA</b> <a href="#">WQDI528</a>	Cricket License Company, LLC	0018402123	CW	Active	09/06/2015

	Call Sign/Lease ID	Name	FRN	Radio Service	Status	Expiration Date
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[PREVIOUS](#)

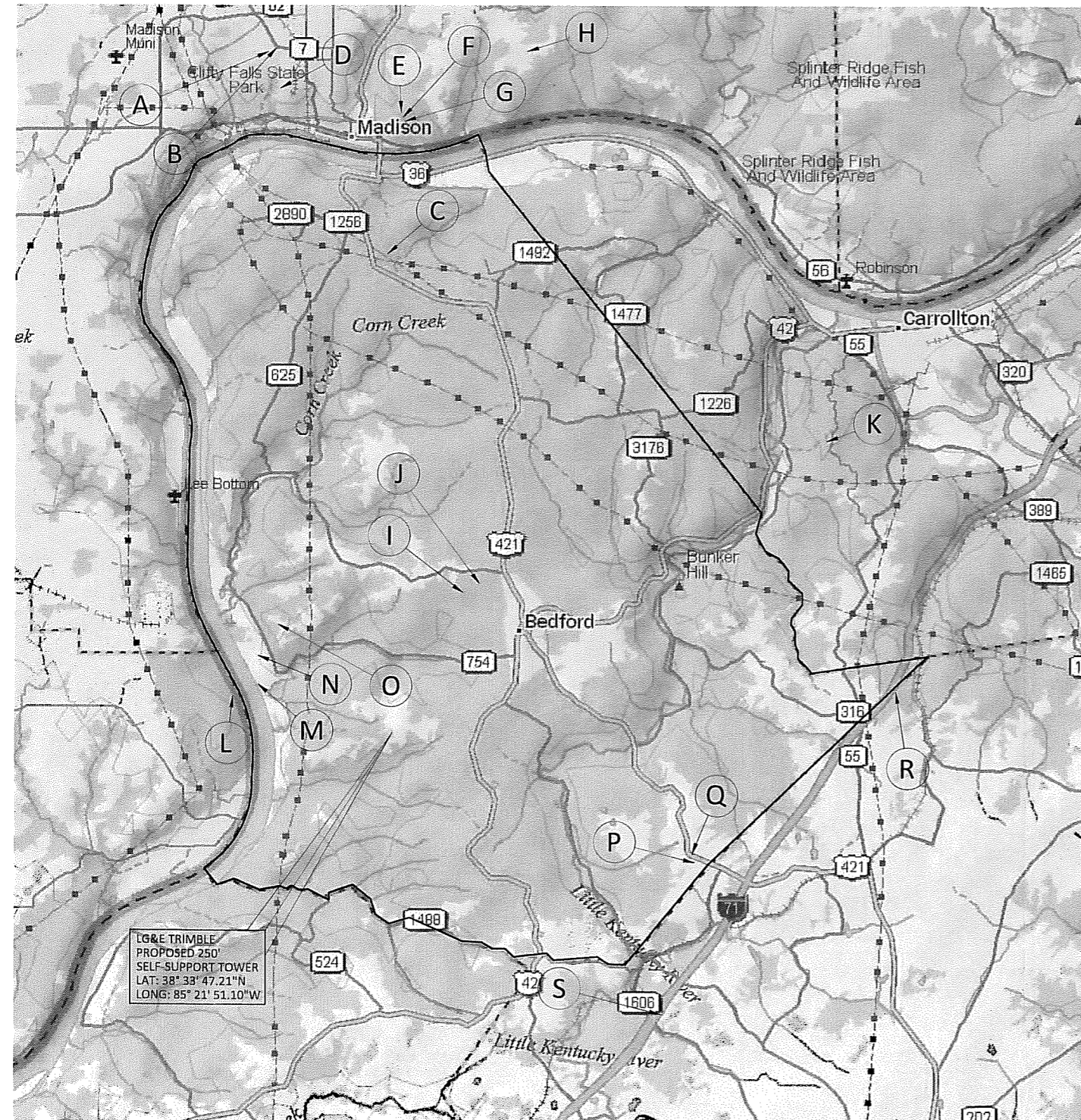
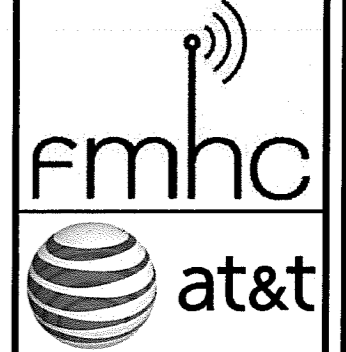
Page 1 of 2

<b>ULS Help</b>	<a href="#">ULS Glossary</a> - <a href="#">FAQ</a> - <a href="#">Online Help</a> - <a href="#">Technical Support</a> - <a href="#">Licensing Support</a>
<b>ULS Online Systems</b>	<a href="#">CORES</a> - <a href="#">ULS Online Filing</a> - <a href="#">License Search</a> - <a href="#">Application Search</a> - <a href="#">Archive License Search</a>
<b>About ULS</b>	<a href="#">Privacy Statement</a> - <a href="#">About ULS</a> - <a href="#">ULS Home</a>
<b>Basic Search</b>	By Call Sign <input type="text"/> = <input type="text"/> <input type="button" value="SEARCH"/>



# TRIMBLE COUNTY, KENTUCKY

## AT&T SITE NAME: LG&E TRIMBLE

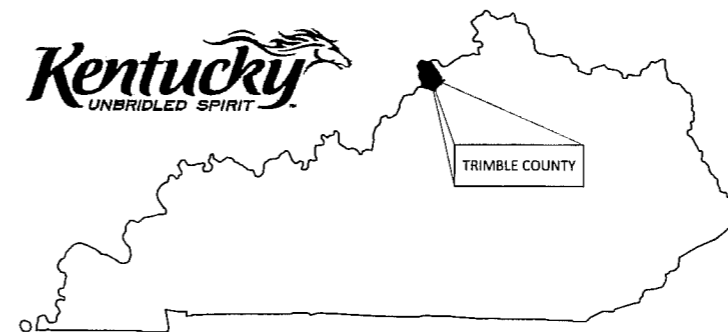


NOTE: TOWERS DEPICTED ARE ALL KNOWN TOWER SITES REGISTERED WITH THE FEDERAL COMMUNICATIONS COMMISSION IN GALLATIN COUNTY, KENTUCKY.

USGS 7.5 MINUTE QUADRANGLE: BEDFORD KY

### TOWER LEGEND

- |   |   |
|---|---|
| <p>(A) FCC REGISTRATION #: 1027682<br/>STATE OF INDIANA (IPSC)<br/>LAT: 38° 45' 39.0"N<br/>LONG: 85° 24' 38.0"W</p> <p>(B) FCC REGISTRATION #: 1031143<br/>STATE OF INDIANA<br/>LAT: 38° 45' 44.0"N<br/>LONG: 85° 24' 30.0"W</p> <p>(C) FCC REGISTRATION #: 1266608<br/>CELLCO PARTNERSHIP<br/>LAT: 38° 42' 06.9"N<br/>LONG: 85° 22' 01.8"W</p> <p>(D) FCC REGISTRATION #: 1061761<br/>JOE MARTIN<br/>DBA = J &amp; N ELECTRONICS<br/>LAT: 38° 45' 00.0"N<br/>LONG: 85° 24' 24.0"W</p> <p>(E) FCC REGISTRATION #: 1033319<br/>CROWN CASTLE GT CO. LLC<br/>LAT: 38° 44' 32.4"N<br/>LONG: 85° 21' 43.2"W</p> <p>(F) FCC REGISTRATION #: 1026200<br/>DUBOIS COUNTY BROADCASTING INC. DBA = WXGO AM<br/>LAT: 38° 44' 30.0"N<br/>LONG: 85° 21' 42.0"W</p> <p>(G) FCC REGISTRATION #: 1026199<br/>DUBOIS COUNTY BROADCASTING INC. DBA = WXGO AM<br/>LAT: 38° 44' 26.0"N<br/>LONG: 85° 21' 40.0"W</p> <p>(H) FCC REGISTRATION #: 1262787<br/>PAULDING TOWERS INC.<br/>LAT: 38° 45' 37.6"N<br/>LONG: 85° 18' 57.8"W</p> <p>(I) FCC REGISTRATION #: 1043334<br/>NEW CINGULAR WIRELESS PSC LLC<br/>LAT: 38° 36' 14.0"N<br/>LONG: 85° 20' 21.9"W</p> | <p>(J) FCC REGISTRATION #: 1029846<br/>WATERWAY COMMUNICATIONS SYSTEM INC.<br/>LAT: 38° 36' 23.0"N<br/>LONG: 85° 20' 02.0"W</p> <p>(K) FCC REGISTRATION #: 1044837<br/>COMMONWEALTH OF KY, DBA = KY EMERGENCY WARNING SYSTEM KEWS<br/>LAT: 38° 38' 52.0"N<br/>LONG: 85° 12' 21.0"W</p> <p>(L) FCC REGISTRATION #: 1270179<br/>LOUISVILLE GAS &amp; ELECTRIC CO.<br/>LAT: 38° 34' 24.3"N<br/>LONG: 85° 25' 23.2"W</p> <p>(M) FCC REGISTRATION #: 1268731<br/>LOUISVILLE GAS &amp; ELECTRIC CO.<br/>LAT: 38° 34' 39.4"N<br/>LONG: 85° 24' 47.2"W</p> <p>(N) FCC REGISTRATION #: 1043086<br/>LOUISVILLE GAS &amp; ELECTRIC CO.<br/>LAT: 38° 35' 04.0"N<br/>LONG: 85° 24' 50.0"W</p> <p>(O) FCC REGISTRATION #: 1280903<br/>LOUISVILLE GAS &amp; ELECTRIC CO.<br/>LAT: 38° 35' 40.6"N<br/>LONG: 85° 24' 22.5"W</p> <p>(P) FCC REGISTRATION #: 1030453<br/>NEW CINGULAR WIRELESS PCS LLC<br/>LAT: 38° 31' 33.5"N<br/>LONG: 85° 15' 14.7"W</p> <p>(Q) FCC REGISTRATION #: 1060596<br/>JOHN PALESKI<br/>LAT: 38° 31' 39.0"N<br/>LONG: 85° 15' 18.0"W</p> <p>(R) FCC REGISTRATION #: 1000357<br/>CROWN CASTLE GT CO. LLC<br/>LAT: 38° 34' 31.7"N<br/>LONG: 85° 10' 49.7"W</p> <p>(S) FCC REGISTRATION #: 1036602<br/>CROWN CASTLE GT CO. LLC<br/>LAT: 38° 28' 54.3"N<br/>LONG: 85° 15' 56.5"W</p> |
|---|---|



COUNTY TOWER MAP		
REV.	DATE	DESCRIPTION
1	12.26.13	OWNERS/LAT&LONG

SITE INFORMATION:  
**LG&E TRIMBLE**  
GILLS RIDGE ROAD  
BEDFORD, KY 40006

SITE NUMBER:  
**KYLSU1534**  
POD NUMBER: 13-0817  
DRAWN BY: SMR  
CHECKED BY: MEP  
DATE: 08.09.13

SHEET TITLE:  
**TOWER GRID MAP**

SHEET NUMBER:  
**C-1**



**EXHIBIT E**  
**CO-LOCATION REPORT**



December 23, 2013

Public Service Commission  
211 Sower Boulevard  
Frankfort, KY 40602

RE: Alternate Site Analysis Report  
Application for a CPCN – Communications Facility  
Applicant: AT&T Mobility  
Site Location: Gills Ridge Road, Bedford, KY 40006  
Site Name: LG&E Trimble

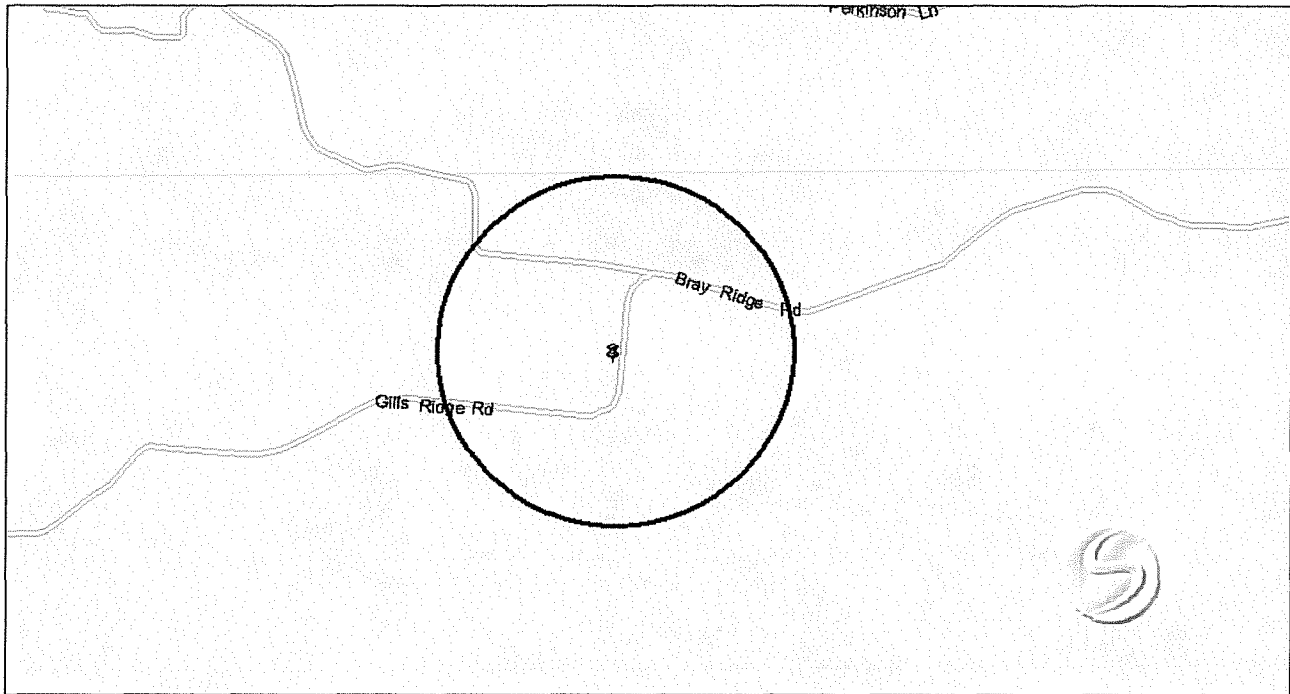
Dear Commissioners:

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 Certificate of Public Convenience and Necessity (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 Bray Ridge and Gills Ridge Road, due south/west of Bedford, KY.

**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 case, the search ring has a radius of .3 miles and is centered off Gills Ridge Road in a manner that will close the coverage gap in this area of Trimble County. A copy of the search map is shown below:



**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 were no towers or other tall structures within the search area or within one mile of the search area.

**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 search ring is located in Trimble County where a planning unit has not been formed and there are no applicable zoning regulations

**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, the site acquisition agent first visited the Trimble County Property Valuation Administrator's office and identified the four parcels that might meet the requirements for the construction of a tower. However, after driving the area and evaluating the surrounding conditions only a small portion of parcels 018-00-00-59.00, 018-00-00-068.00 and 018-00-00-071.01 were within the search ring and there are several homes on the north side of Bray Ridge Road in close proximity. In order to move the site as far as possible from nearby homes, parcel 018-00-00-071.00 (the Pyles property) is the best choice. The properties current use is an apple orchard, with no structures or homes

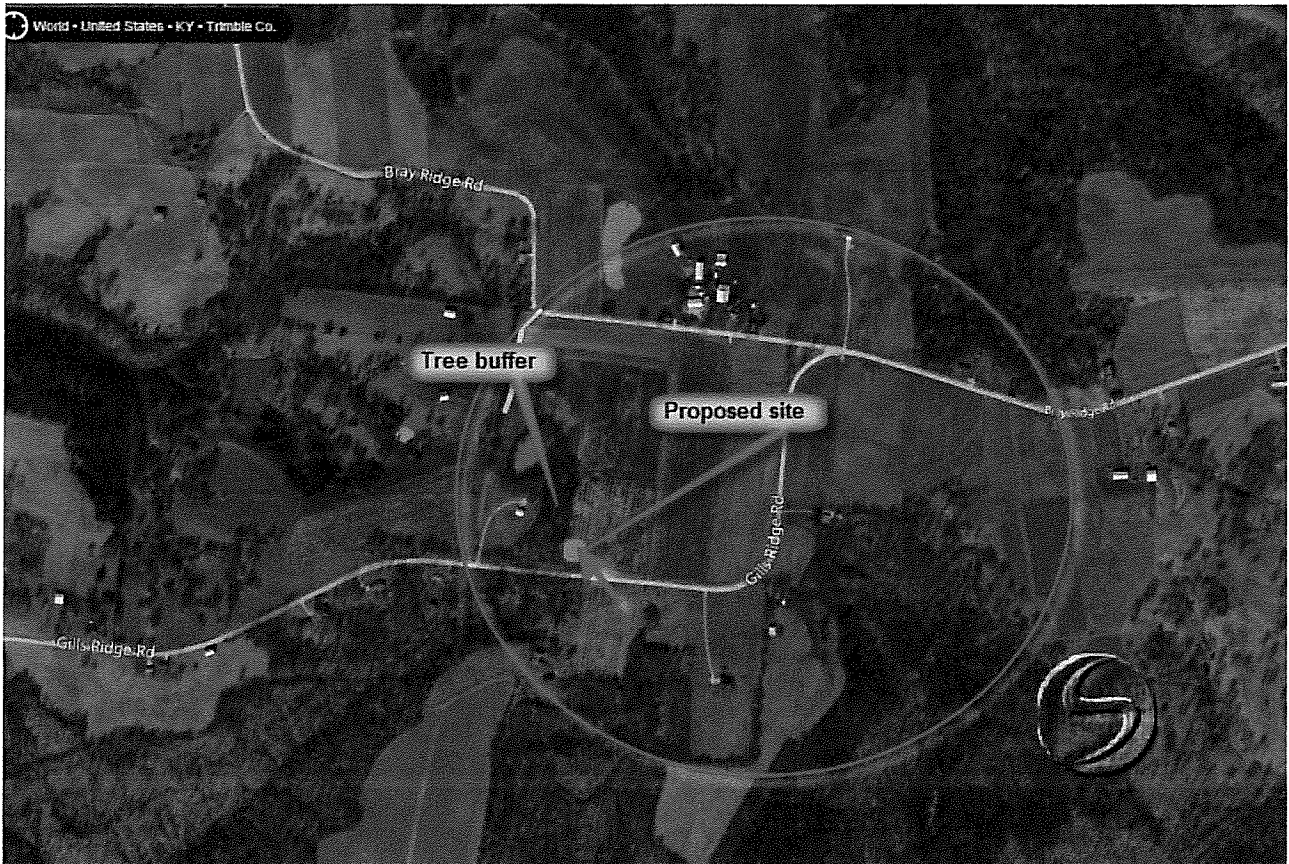
on the property. Existing tall tree along the west side of the site provides a natural buffer that will lessen the visual impact for surrounding properties.

An overview of parcel conditions and parcel map is as follows:

- 018-00-00-071.00 44.6 Acre tract: apple orchard. The Pyles property.
- 018-00-00-068.00 229 Acre tract: mix of planted crops, pasture and woods.
- 018-00-00-059.00 128 Acre tract: mix of planted crops, pasture and woods.
- 018-00-00-071.01 69 Acre tract: mix of apple orchard, pasture and woods.



**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, the Pyles Property is located near to the center of the search ring on Gills Ridge Road. The property has the required elevation and there is an existing public road for access to the property. The existing mature vegetation along the west side of the property will help buffer the site from homes in the area. The 44.6 acre tract is currently used as an apple orchard that will provide additional buffering. An aerial map is shown below.



**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 Communication Commission (“FCC”) compliance.

**Step 8: Application.** Once a lease was obtained and all site due diligence was completed, AT&T Mobility prepared and filed the accompanying request 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 radio frequency engineers determined that the proposed candidate would provide optimum coverage for their wireless service. Based on the elevation and natural tree buffer on the proposed site, we believe that a 250’ self support tower at this location would meet the coverage objective.

Sincerely,



Jeff Wolford  
Site Acquisition Specialist  
FMHC  
6924 Peppermill Lane  
Louisville, KY 40228  
502-639-8967

**EXHIBIT F**  
**FAA**



Mail Processing Center  
Federal Aviation Administration  
Southwest Regional Office  
Obstruction Evaluation Group  
2601 Meacham Boulevard  
Fort Worth, TX 76137

Aeronautical Study No.  
2013-ASO-8018-OE

Issued Date: 11/14/2013

John Monday  
AT&T Mobility LLC  
2200 W. Greenville Ave.  
1W  
Richardson, TX 75082

**\*\* DETERMINATION OF NO HAZARD TO AIR NAVIGATION \*\***

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

Structure: Antenna Tower LG&E Trimble  
Location: Bedford, KY  
Latitude: 38-33-47.21N NAD 83  
Longitude: 85-21-51.10W  
Heights: 881 feet site elevation (SE)  
265 feet above ground level (AGL)  
1146 feet above mean sea level (AMSL)

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

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

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

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

While the structure does not constitute a hazard to air navigation, it would be located within or near a military training area and/or route.

This determination expires on 05/14/2015 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within



6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

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

This determination is based, in part, on the foregoing description which includes specific coordinates , heights, frequency(ies) and power . Any changes in coordinates , heights, and frequencies or use of greater power will void this determination. Any future construction or alteration , including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA.

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

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

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

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

If we can be of further assistance, please contact our office at (847) 294-8084. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2013-ASO-8018-OE.

**Signature Control No: 197622984-201775159**

( DNE )

Carole Bernacchi  
Technician

Attachment(s)  
Frequency Data

cc: FCC

**Frequency Data for ASN 2013-ASO-8018-OE**

<b>LOW FREQUENCY</b>	<b>HIGH FREQUENCY</b>	<b>FREQUENCY UNIT</b>	<b>ERP</b>	<b>ERP UNIT</b>
698	806	MHz	1000	W
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W

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



**KENTUCKY AIRPORT ZONING COMMISSION**

STEVEN BESHEAR  
Governor

90 Airport Road, Bldg 400  
Frankfort, KY 40601  
[www.transportation.ky.gov/aviation](http://www.transportation.ky.gov/aviation)  
502 564-4480

November 25, 2013

**APPROVAL OF APPLICATION**

**APPLICANT:**

A T & T  
AT&T  
402 Franklin Rd|RM 03D092  
Brentwood, TN 37027

**SUBJECT:** AS-112-LOU-2013-162

**STRUCTURE:** Antenna Tower  
**LOCATION:** Bedford, KY  
**COORDINATES:** 38° 33' 47.21" N / 85° 21' 51.10" W  
**HEIGHT:** 265' AGL/1146' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 265' AGL/ 1146' AMSL Antenna Tower near Bedford, KY 38° 33' 47.21" N / 85° 21' 51.10" W.

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

A copy of the approved application is enclosed for your files.

Medium Dual Obstruction Lighting is required in accordance with 602 KAR 50:100.



John Houlihan  
Administrator



An Equal Opportunity Employer M/F/D



**KENTUCKY AIRPORT ZONING COMMISSION**

STEVEN BESHEAR  
Governor

90 Airport Road, Bldg 400  
Frankfort, KY 40601  
www.transportation.ky.gov/aviation  
502 564-4480

**CONSTRUCTION/ALTERATION STATUS REPORT**

November 25, 2013

AERONAUTICAL STUDY NUMBER: AS-112-LOU-2013-162

A T & T  
AT&T  
402 Franklin Rd|RM 03D092  
Brentwood, TN 37027

This concerns the permit which was issued to you by the Kentucky Airport Zoning Commission on November 25, 2013. This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within the said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit. When appropriate, please indicate the status of the project in the place below and return this letter to John Houlihan, Administrator, Kentucky Airport Zoning Commission, 90 Airport Road, Bldg 400, Frankfort, KY, 40601. 502 564-4480.

STRUCTURE: Antenna Tower  
LOCATION: Bedford, KY  
COORDINATES: 38° 33' 47.21" N / 85° 21' 51.10" W  
HEIGHT: 265' AGL /1146'AMSL

**CONSTRUCTION/ALTERATION STATUS**

1. The project ( ) is abandoned. ( ) is not abandoned.

2. Construction status is as follows:  
Structure reached its greatest height of \_\_\_\_\_ ft. AGL  
\_\_\_\_\_ ft. AMSL on \_\_\_\_\_ (date).

Date construction was completed. \_\_\_\_\_

Type of obstruction marking/painting. \_\_\_\_\_

Type of obstruction lighting. \_\_\_\_\_

As built coordinates. \_\_\_\_\_

Miscellaneous Information. \_\_\_\_\_

DATE \_\_\_\_\_

SIGNATURE/TITLE \_\_\_\_\_



An Equal Opportunity Employer M/F/D



KENTUCKY TRANSPORTATION CABINET  
 KENTUCKY AIRPORT ZONING COMMISSION

TC 56-50  
 Rev. 07/2010  
 Page 2 of 2

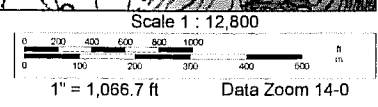
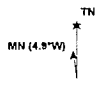
**APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE**

APPLICANT (name) Shelly Prey		PHONE 615-661-3027	FAX	KY AERONAUTICAL STUDY # <del>2013-ASO-8018</del> AS-112-LOU-2-013-	
ADDRESS (street) 402 Franklin Rd		CITY Brentwood		STATE TN	ZIP 37027
APPLICANT'S REPRESENTATIVE (name) Lottie Thompson		PHONE 773-380-3871	FAX		
ADDRESS (street) 1700 Sherwin Ave		CITY Des Plaines		STATE IL	ZIP 60018
APPLICATION FOR <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration <input type="checkbox"/> Existing				WORK SCHEDULE	
DURATION <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (months days )				Start End	
TYPE <input type="checkbox"/> Crane <input type="checkbox"/> Building		MARKING/PAINTING/LIGHTING PREFERRED			
<input checked="" type="checkbox"/> Antenna Tower		<input type="checkbox"/> Red Lights & Paint <input type="checkbox"/> White- medium intensity <input type="checkbox"/> White- high intensity			
<input type="checkbox"/> Power Line <input type="checkbox"/> Water Tank		<input checked="" type="checkbox"/> Dual- red & medium intensity white <input type="checkbox"/> Dual- red & high intensity white			
<input type="checkbox"/> Landfill <input type="checkbox"/> Other		<input type="checkbox"/> Other			
LATITUDE 38°33'47.21"		LONGITUDE 85°21'51.10"		DATUM <input checked="" type="checkbox"/> NAD83 <input type="checkbox"/> NAD27	
<input type="checkbox"/> Other					
NEAREST KENTUCKY City Bedford County Trimble		NEAREST KENTUCKY PUBLIC USE OR MILITARY AIRPORT N/A			
SITE ELEVATION (AMSL, feet) 881		TOTAL STRUCTURE HEIGHT (AGL, feet) 265		CURRENT (FAA aeronautical study #)	
OVERALL HEIGHT (site elevation plus total structure height, feet) 1146				PREVIOUS (FAA aeronautical study #)	
DISTANCE (from nearest Kentucky public use or Military airport to structure) N/A				PREVIOUS (KY aeronautical study #)	
DIRECTION (from nearest Kentucky public use or Military airport to structure) N/A					
DESCRIPTION OF LOCATION (Attach USGS 7.5 minute quadrangle map or an airport layout drawing with the precise site marked and any certified survey.) Map attached.					
DESCRIPTION OF PROPOSAL AT&T mobility proposes to build a 255' Guyed tower with a 10' lightning rod.					
FAA Form 7460-1 (Has the "Notice of Construction or Alteration" been filed with the Federal Aviation Administration?) <input type="checkbox"/> No <input checked="" type="checkbox"/> Yes, when? 9/2013					
CERTIFICATION (I hereby certify that all the above entries, made by me, are true, complete, and correct to the best of my knowledge and belief.)					
PENALTIES (Persons failing to comply with KRS 183.861 to 183.990 and 602 KAR 050 are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Noncompliance with FAA regulations may result in further penalties.)					
NAME Lottie Thompson	TITLE Compliance Spc.	SIGNATURE <i>Lottie Thompson</i>		DATE 9/9/2013	
COMMISSION ACTION		<input type="checkbox"/> Chairperson, KAZC			
<input checked="" type="checkbox"/> Approved		<input checked="" type="checkbox"/> Administrator, KAZC			
<input type="checkbox"/> Disapproved		SIGNATURE <i>[Signature]</i>		DATE 11-25-13	



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**EXHIBIT H  
GEOTECHNICAL REPORT**





## Geotechnical Evaluation of Subsurface Conditions

### Self Support Tower

Report Prepared for  
FMHC Corporation

Site Name: LG&E Trimble  
Site ID: 145260-A

Gills Ridge Road - Bedford, KY 40006  
Lat: 38° 33' 47.21"  
Lon: -85° 21' 51.10"

FDH Project Number 1305631600

Prepared by:

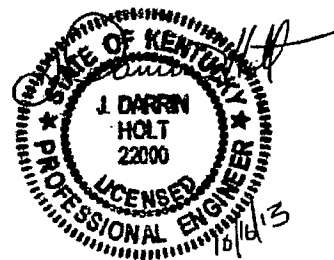
*Cedric D. Fairbanks*

*J. Darrin Holt*

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

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

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



10/16/2013



## EXECUTIVE SUMMARY

**Project Location:** Gills Ridge Road – Bedford, KY 40006  
**Structure Type:** Self-Support  
**Site ID/Number:** 145260-A  
**Number of Borings:** One (1)  
**Depth of Borings:** B-1 to 9.0 ft, to refusal

## INTRODUCTION

FDH Engineering, Inc. understands that a self-support telecommunication tower 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 northwest and exhibits a topographic variation of less than 5.0 ft. Currently, the footprint area of the proposed self-support 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:

Strata #	Approx. Depth (ft)	General Description
I	0.0 – 6.0	CL – Stiff to Hard Lean Clay with sand
II	6.0 – 9.0	PWR – Very Dense Partially Weathered Rock (Probable Shale) with sand

## 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 Trimble County, KY is 20-inches (1.7 ft).

FDH was not provided with the required foundation capacities at the time of this report. For self-support towers, we anticipate the planned tower foundation will be subjected to relatively high axial loads. Based on our past experience with similar projects and subsurface conditions, we recommend that Drilled Shaft (Caisson), Pad & Pier type foundation or single Mat 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. The caissons will achieve compressive (downward) and uplift (vertical) resistance through skin friction along the side of the shafts. In addition to skin friction, additional compressive capacity can be gained from the bearing resistance at the caissons' tip. For uplift, the weight of the concrete in the shafts can be added to their skin friction resistance. 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.
- **Ultimate Uplift SKIN FRICTION vs. DEPTH** = shown in Figure 3. This figure display ultimate values and an appropriate factor of safety should be used.
- **Net Ultimate Bearing Capacity vs. DEPTH** = shown in Figure 4. 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



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

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 and Mat Foundation

Should three (3) pad & pier foundations or one (1) single mat foundation be used, we recommend the pad & pier or mat 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 or mat 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
8.0 × 8.0	4.0	27,000	0.30
	6.0	30,000	0.35
	8.0	30,000	0.35
10.0 × 10.0	4.0	27,000	0.30
	6.0	30,000	0.35
	8.0	30,000	0.35
12.0 × 12.0	4.0	26,500	0.30
	6.0	30,000	0.35
	8.0	30,000	0.35

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

- **Net Ultimate Bearing Capacity for MAT Foundation:**

Pad Dimensions (ft)	Mat Bearing Depth (ft)	Net Ultimate Bearing Capacity (psf)	Sliding Friction Factor
25.0 × 25.0	4.0	25,000	0.30
	6.0	30,000	0.35
30.0 × 30.0	4.0	25,000	0.30
	6.0	30,000	0.35
35.0 × 35.0	4.0	25,000	0.30
	6.0	30,000	0.35

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 or mat 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 or mat 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.



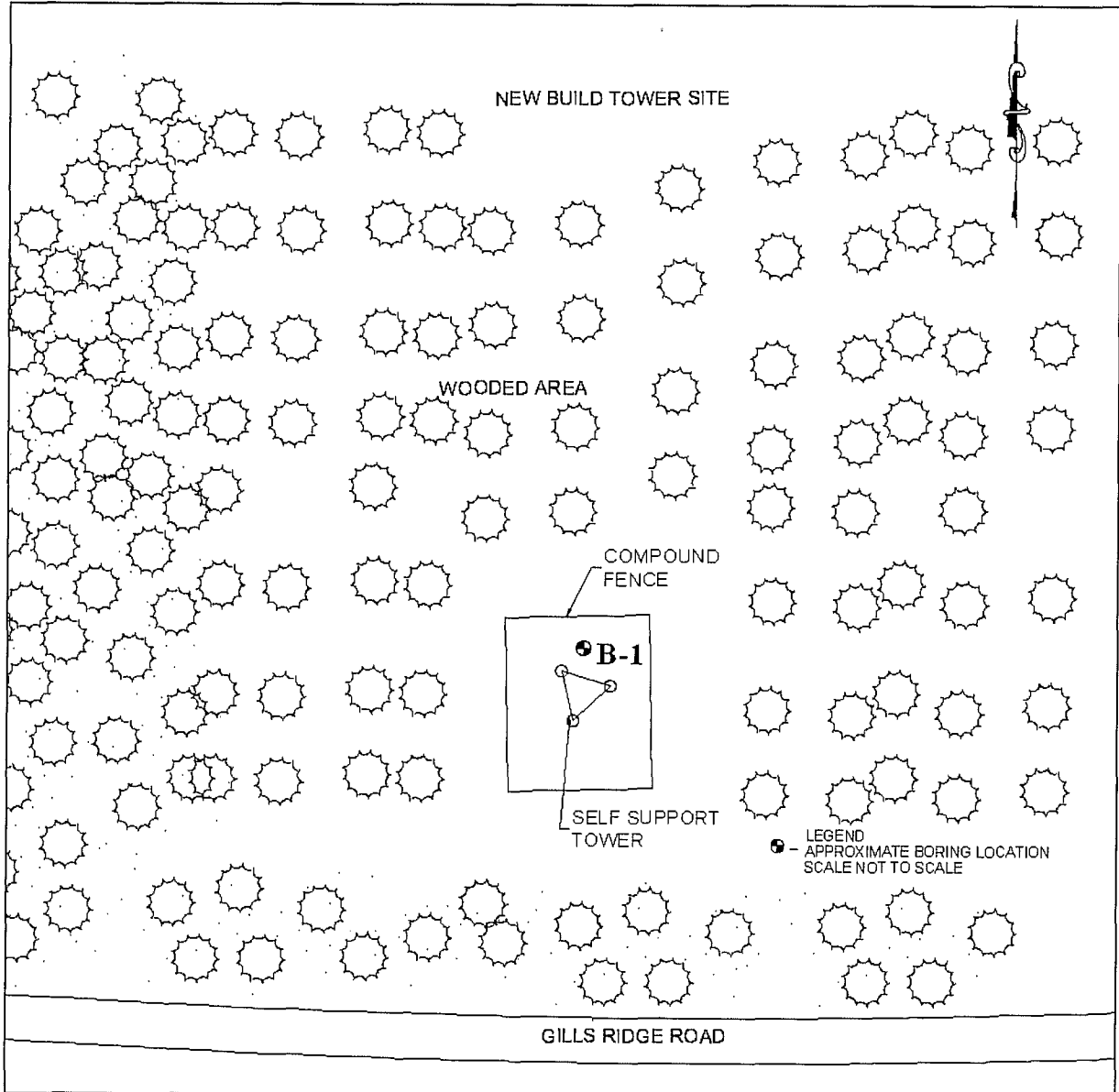
**Table 1**  
**ULTIMATE SOIL STRENGTH PARAMETERS**

**LG&E Trimble**  
**Site ID: 145260-A**

Boring #	Depth (ft)	Unified Soil Classification	Moist Unit Weight (pcf)	Friction Angle (degrees)	Cohesion (psf)
B-1	0.0 – 3.5	CL	116	0	1600
	3.5 – 6.0	CL	125	0	4000
	6.0 – 8.5	PWR	133	38	0
	8.5 – 9.0	PWR	140	45	0



**FIGURE 1: Site Plan – Gills Ridge Road - BEDford, KY 40006**

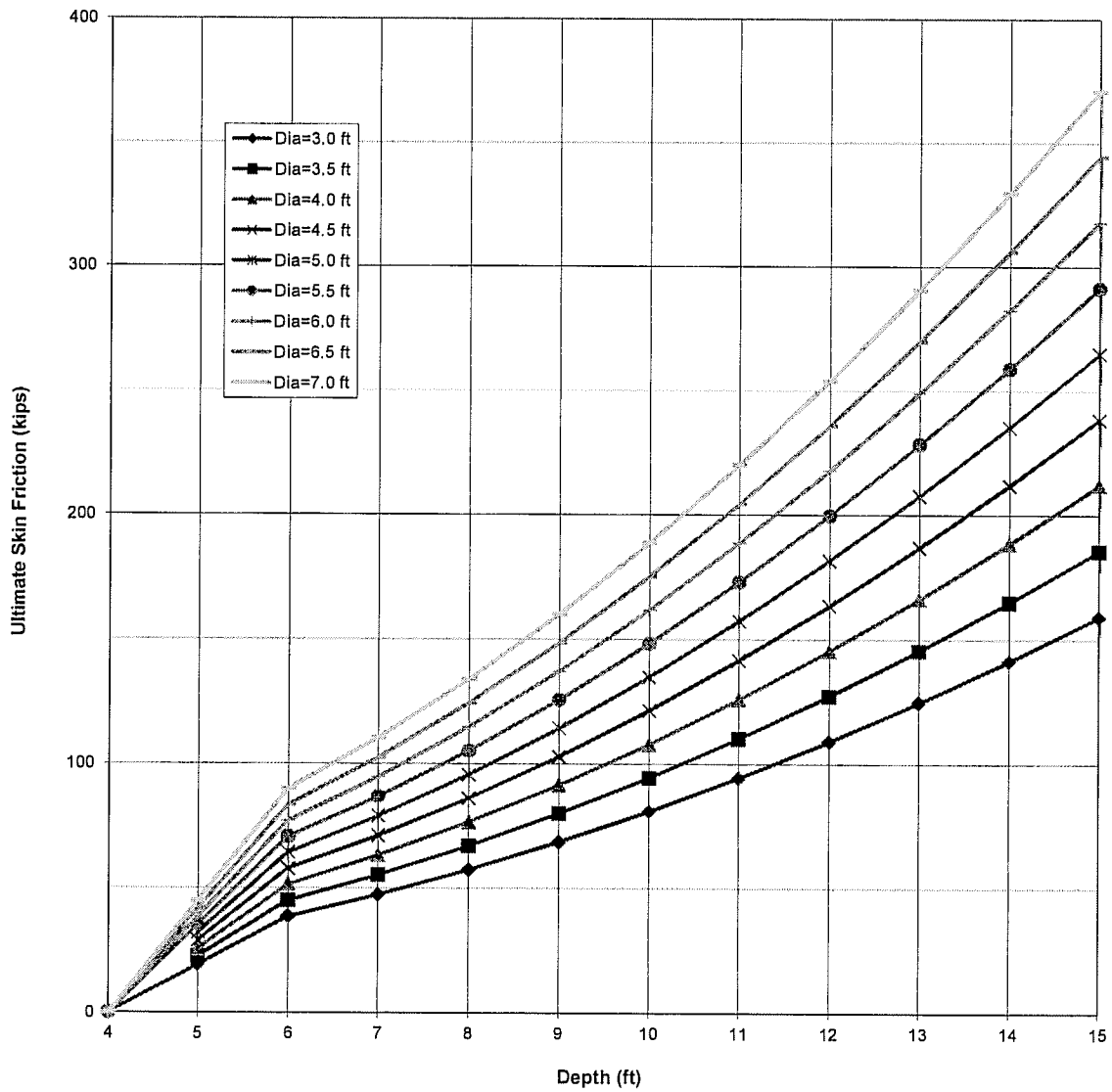






**FIGURE 2: Ultimate Skin Friction vs. Depth**  
Soil Boring B-1, 3.0 ft to 7.0 ft Diameter Caissons

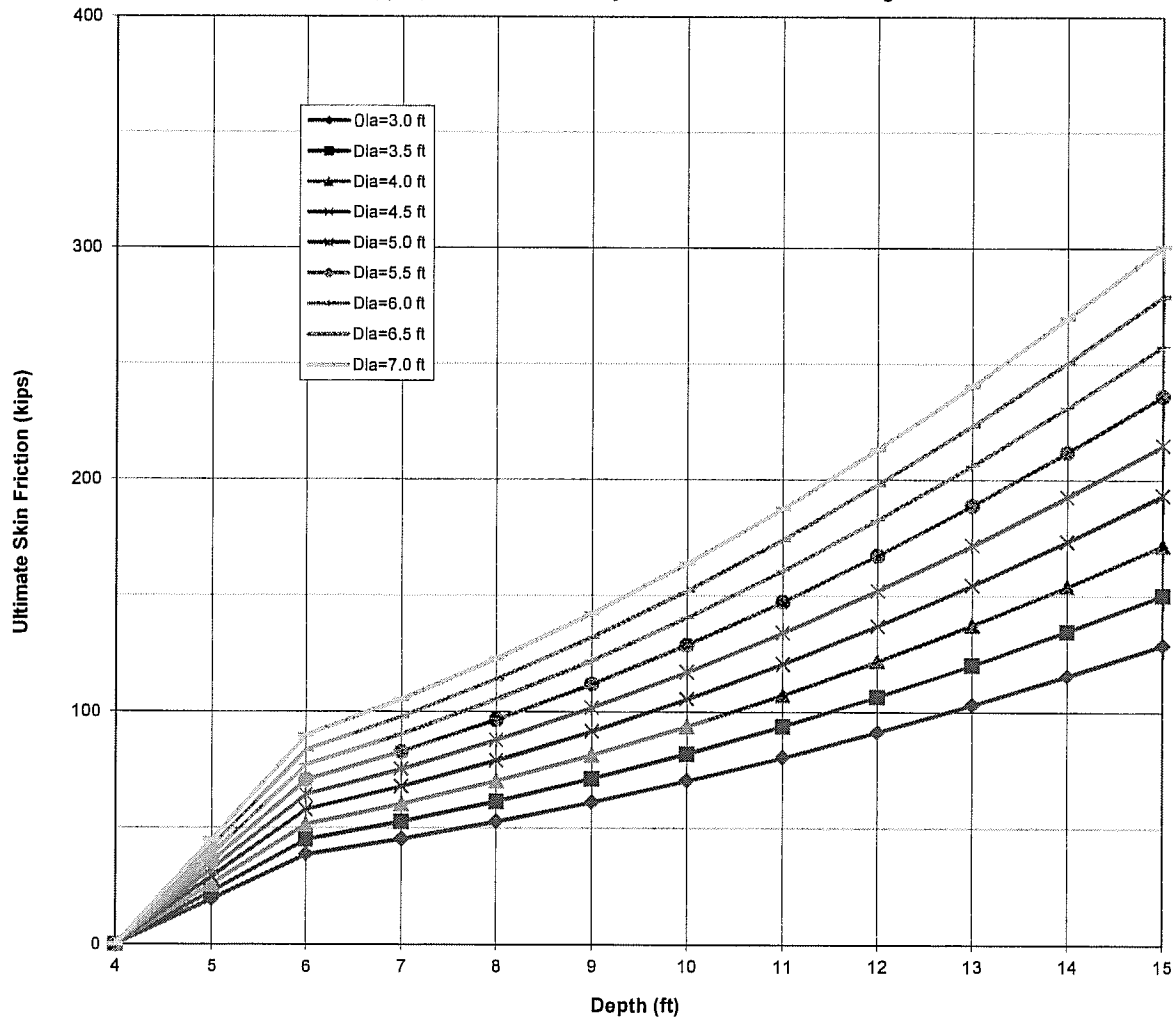
Ignore the top 4.0 ft for skin friction  
An appropriate factor of safety should be used with this figure





**FIGURE 3: Ultimate Uplift Skin Friction vs. Depth**  
Soil Boring B-1, 3.0 ft to 7.0 ft Diameter Caissons

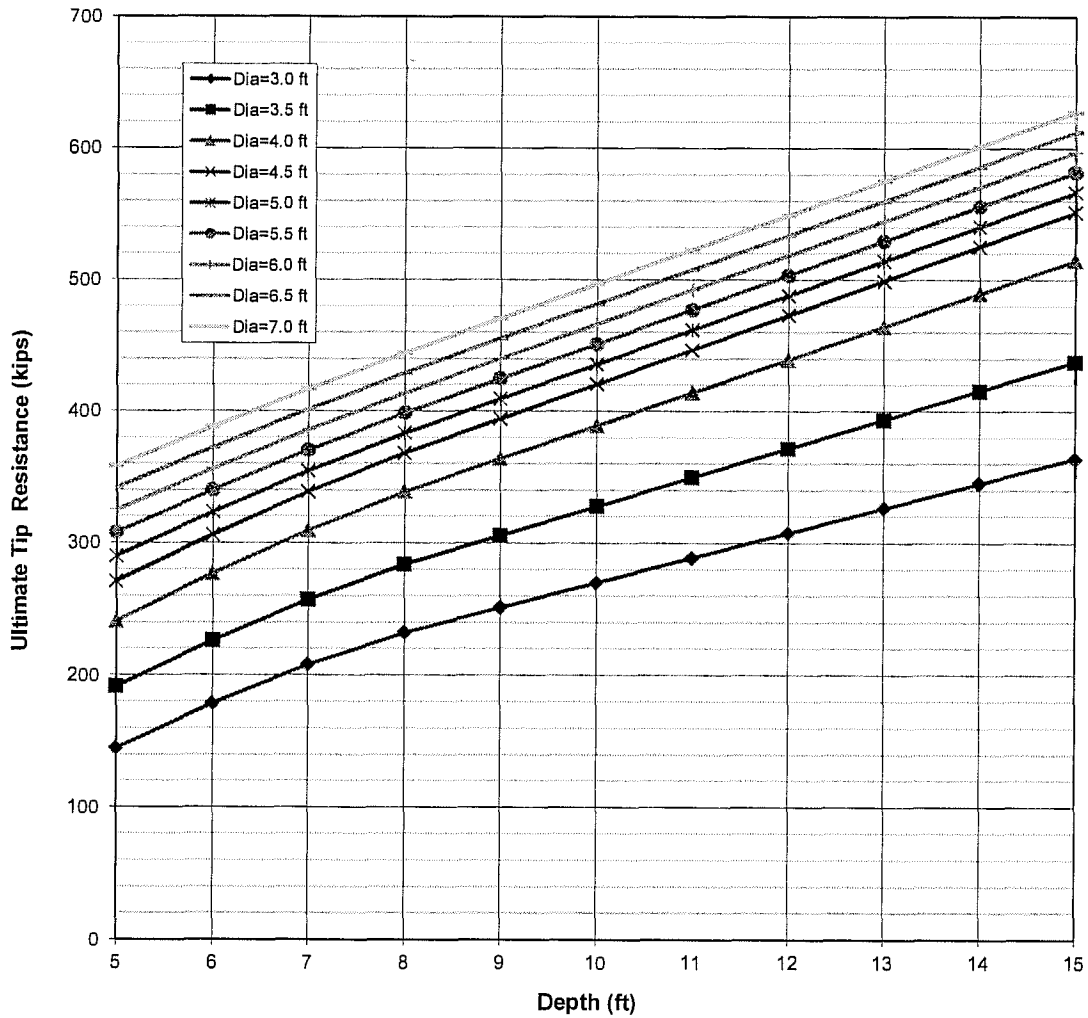
Ignore the top 4.0 ft for skin friction  
An appropriate factor of safety should be used with this figure





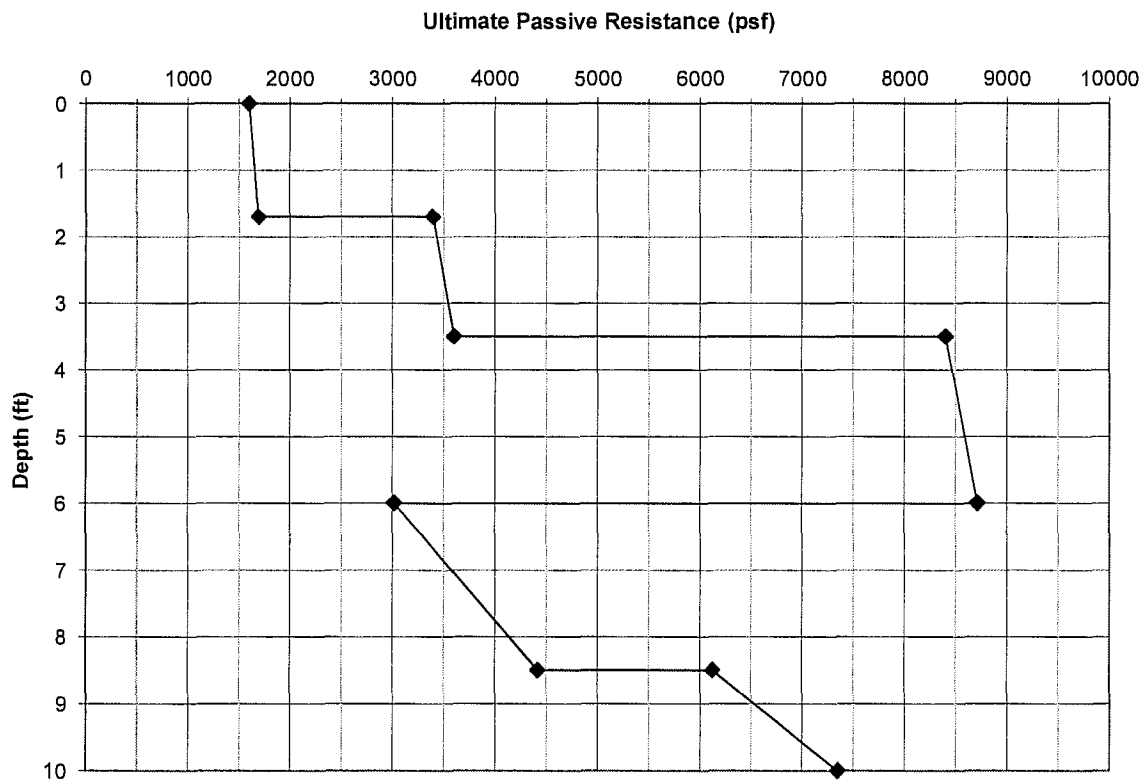
**FIGURE 4: Ultimate Tip Resistance vs. Depth**  
Soil Boring B-1, 3.0 ft to 7.0 ft Diameter Caissons

An appropriate factor of safety should be used with this figure





**FIGURE 5: Ultimate Passive Resistance vs. Depth  
Soil Boring B-1**





PROJECT NAME: LG&E Trimble (145260-A)  
 PROJECT LOCATION: Gills Ridge Road - Bedford, KY 40006  
 CLIENT: FMHC Corporation

PROJECT NUMBER: 1305631600

Boring No.: B-1

PAGE 1 OF 1

DATE DRILLED: 10/9/2013

DRILLING METHOD: Hollow Stem Auger

GROUND ELEVATION:

BORING DEPTH (ft): 9

GROUND WATER LEVELS:

▽ AT TIME OF DRILLING: --- No Groundwater Encountered

▽ AT END OF DRILLING: ---

▽ AFTER DRILLING: ---

DEPTH (ft)	MATERIAL DESCRIPTION	SAMPLE TYPE	MATERIAL CLASSIFICATION	Cohesion (tsf)	BLOWS 1st	BLOWS 2nd	BLOWS 3rd	N VALUE	▲ SPT N VALUE ▲													
									10	20	30	40	50	60	70	80	90					
0	Stiff Lean Clay with sand, dark brown, wet		CL		3	5	8	13	▲ SPT N VALUE ▲													
5	Changes to hard								10	18	18	36	▲ SPT N VALUE ▲									
	Very Dense Partially Weathered Rock with sand (Probable Shale), light brown, moist								10	18	38	56	▲ SPT N VALUE ▲									
10	Refusal at 9.0 feet. Bottom of borehole at 9.0 feet.				50/6"			100	▲ SPT N VALUE ▲													
15									▲ SPT N VALUE ▲													
20									▲ SPT N VALUE ▲													
25									▲ SPT N VALUE ▲													

**EXHIBIT I**  
**DIRECTIONS TO WCF SITE**

## LG&E TRIMBLE DRIVING DIRECTIONS TO SITE

1. From Trimble County Clerk, 30 Highway 42 E, Bedford, KY
2. Depart US 42/Main St. towards US 421 for 2.1 miles
3. Turn right onto Bray Ridge Road and go 1.6 miles
4. Turn left onto Gills Ridge Road and go 0.4 miles
5. Arrive at site on right

Coordinates for site: 38°33'47.21"N, 85°21'51.10"W



Prepared by:  
Keith Riggs, J.D.  
Pike Legal Group  
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  
Email: [kriggs@pikelegal.com](mailto:kriggs@pikelegal.com)

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



JAMAE BRAY PYLES &  
CARLOS PYLES

TO \*\*\* DEED

JEAN RAND

TO \*\*\* DEED

JAMAE BRAY PYLES

This Deed of Conveyance, Made and Entered into this 2ND day of July, 2013, by and between JAMAE BRAY PYLES and CARLOS PYLES, wife and husband, of 196 Bray Ridge Road, Bedford, Kentucky, 40006, parties of the first part and JEAN RAND, unmarried of 307 Fairview Circle Road, Bedford, Kentucky, 40005, party of the second part and JAMAE BRAY PYLES, married, of 196 Bray Ridge Road, Bedford, Kentucky, 40006, party of the third part.

WITNESSETH:

That the said parties of the first part, for and in consideration of the sum of ONE DOLLAR and the agreement by the party of the second part to immediately reconvey said property to the party of the third part, as herein after provided, the party of the first part does hereby sell, transfer and convey all their right, title and interest unto the said JEAN RAND, her heirs and assigns, with Covenant of General Warranty, the following described property, to-wit:

Located in Trimble county, Kentucky and bounded as follows:

Beginning at a stone in Force's line; thence S. 84 poles to a stone; thence N. 88 deg. W. 174 poles to a stone; thence S. 40 poles to a stake in the field; thence N. 88 deg. W. 38 poles to a stake in the fence; thence N. 103 poles to the division line between Lewis, Weston and Colston McIntosh; thence S. 88 deg. E. 38 poles to two sugar tree and a beech near the road; thence N. 30 poles to a sugar tree; thence S. 88 deg. E. 170 poles to the Beginning, containing One Hundred Fifteen (115) Acres, more or less, but subject to all legal rights of ways and pole and the agreement so recited.

Being a portion of the real estate devised to Jamae Bray Pyles under will of R. Terrell Bray, recorded in Will-Book No. 4, Page No. 380, all of record in the Trimble County Clerk's Office, Trimble County Courthouse, Bedford, Kentucky.

Property I. D. 018-00-00-071,00

And in consideration of the sum of ONE DOLLAR and the premises herein above set out, the party of the second part does hereby sell, transfer and convey the above described real estate to JAMAE BRAY PYLES, her heirs and assigns forever, with Covenant of Special Warranty.

We, the undersigned certify that the fair market value of the property conveyed by this deed is \$196,000.00 for the 100% conveyed and understand that any person who willfully and fraudulently gives a false statement as to the full estimated value under KRS 382.135 shall be guilty of a Class D Felony. Exempt from deed tax.

IN TESTIMONY WHEREOF, Witness the signatures of the parties hereto on the date first  
herein stated.

Jamae Eray Pyles  
JAMAE ERAY PYLES  
Carlos Pyles  
CARLOS PYLES  
Jean Rand  
JEAN RAND

State of Kentucky  
County of Trimble.

The foregoing Deed and Consideration Certificate was signed, acknowledged, subscribed and  
sworn to before me in said County and State by Jamae Eray Pyles and Carlos Pyles, wife and husband  
on this 2<sup>ND</sup> day of July, 2013, to be their free act and deed.

Joann True  
Notary Public, Ky. State at Large

My Commission expires: Nov. 26, 2016

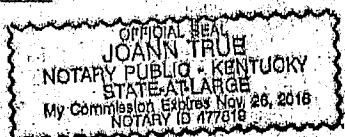


State of Kentucky  
County of Trimble

The foregoing Deed and Consideration Certificate was signed, acknowledged, subscribed and  
sworn to before me in said County and State by Jean Rand unmarried, on this 2<sup>ND</sup> day of July, 2013  
to be her free act and deed.

Joann True  
Notary Public, Ky. State at Large

My Commission expires: Nov. 26, 2016



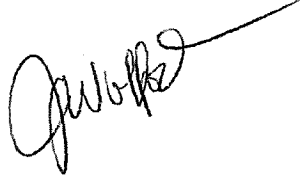
This Deed prepared by:  
BOBBY K. TRUE, ATTORNEY,  
P. O. BOX 245  
BEDFORD, KENTUCKY 40006

Bobby K True

DOCUMENT NO: 81667  
RECORDED: July 06, 2013 09:41:00 AM  
TOTAL FEE: \$17.00  
TRANSFER TAX: \$0.00  
COUNTY CLERK: TINA R. DROWNING  
DEPUTY CLERK: ALLISON N. TINGLE  
COUNTY: TRIMBLE COUNTY

MEMORANDUM OF LEASE

Prepared by:  
Jeff Wolford  
FMHC Corporation  
6924 Peppermill Lane  
Louisville, KY 40228



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

Re: Cell Site #KYL SU1534; Cell Site Name: LG&E Trimble  
Fixed Asset # 10153692  
State: Kentucky  
County: Trimble

MEMORANDUM  
OF  
LEASE

This Memorandum of Lease is entered into on this 23<sup>rd</sup> day of August, 2013, by and between Jamae Bray Pyles and Carlos Pyles, having a mailing address of 196 Bray Ridge Road, Bedford, KY 40006 (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 23<sup>rd</sup> day of August, 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"

Jamae Bray Pyles and Carlos Pyles

By: Jamae Bray Pyles

Print Name: Jamae Bray Pyles

Its: Owner

Date: 8-14-13

By: Carlos Pyles

Print Name: Carlos Pyles

Its: Owner

Date: 8.14.13

"TENANT"

New Cingular Wireless PCS, LLC,  
a Delaware limited liability company

By: AT&T Mobility Corporation

Its: Manager

By: Daniel Toth

Print Name: Daniel Toth

Its: Manager Real Estate and Construction

Date: 8/23/13

[ACKNOWLEDGMENTS APPEAR ON THE NEXT PAGE]

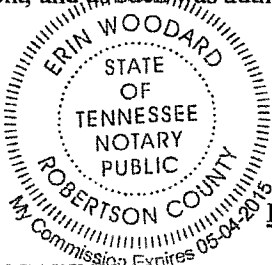
**TENANT ACKNOWLEDGMENT**

STATE OF TENNESSEE)

) ss:

COUNTY OF WILLIAMSON)

On the 23<sup>rd</sup> day of August, 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 TRIMBLE)

On the 14 day of Aug, 2013 before me, personally appeared Jamae Bray Pyles, 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.

Bobby K. Luce  
Notary Public: By Stat at Say  
My Commission Expires: Nov 18 2016  
JD 291776

**LANDLORD ACKNOWLEDGMENT**

STATE OF KENTUCKY)

) ss:

COUNTY OF Trimble)

On the 14 day of Aug, 2013 before me, personally appeared Carlos Pyles, 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.

Bobby K. Luce  
Notary Public: By Stat at Say  
My Commission Expires: Nov 18 2016  
JD 291776

**EXHIBIT 1**

**DESCRIPTION OF PREMISES**

Page 1 of 3

to the Option and Lease Agreement dated August 23, 2013, by and between Jamae Bray Pyles and Carlos Pyles as Landlord, and New Cingular Wireless PCS, LLC, a Delaware limited liability company, as Tenant.

The Premises are described and/or depicted as a 10,000 square foot portion of the following described real estate:

Located in Trimble county, Kentucky and bounded as follows:

Beginning at a stone in Foree's line; thence S. 84 poles to a stone; thence N. 88 deg. W. 174 poles to a stone; thence S. 40 poles to a stake in the field; thence N. 88 deg. W. 38 poles to a stake in the fence; thence N. 103 poles to the division line between Lewis, Weston and Colston McIntosh; thence S. 88 deg. E. 38 poles to two sugar tree and a beech near the road; thence N. 30 poles to a sugar tree; thence S. 88 deg. E. 170 poles to the beginning, containing **One Hundred Fifteen (115) Acres, more or less**, but subject to all legal rights of ways and pole and line agreement so record.

Being a portion of the real estate devised to Jamae Bray Pyles under will of R. Terrell Bray, recorded in Will Book No. 4, Page No. 380, all of record in the Trimble County Clerk's Office, Trimble County Courthouse, Bedford, Kentucky.

**Property I. D. 018-00-00-071.00**

The Premises are described and/or depicted as follows:

**SEE ATTACHED SHEET, NEXT PAGE.**





**EXHIBIT K  
NOTIFICATION LISTING**

## LG&E Trimble Landowner Notice Listing

Jamae Bray Pyles  
196 Bray Ridge Road  
Bedford, KY 40006

Niles & Betty Lou Bray  
1568 Bray Ridge Road  
Bedford, KY 40006

Jim Pyles  
852 Bray Ridge Road  
Bedford, KY 40006

Terry W. & Earlene Bray  
1111 Bray Ridge Road  
Bedford, KY 40006

August Jr. & Joyce Dattilo  
215 Oxford Place  
Louisville, KY 40207

Reginald W. Jr. & Vicky P. Rand  
307 Gills Ridge Road  
Bedford, KY 40006

Dennis Ray Smith  
1016 Audubon Parkway  
Louisville, KY 40213

Darren M. Carter  
909 Henry Clay Street  
Shelbyville, KY 40065

Jamae Pyles  
196 Bray Ridge Road  
Bedford, KY 40006

Helen Mays Casey  
7006 Shallow Lake Road  
Prospect, KY 40059

Jenifer Loudon & Shawn Kelley  
540 Gills Ridge Road  
Bedford, KY 40006

Niles & Betty K. Bray  
1568 Bray Ridge Rd.  
Bedford, KY 40006

Patrick D. Gillen  
1901 Bray Ridge Rd.  
Bedford, KY 40006

**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: LG&E Trimble**

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 Gills Ridge Road, Bedford, KY 40006 (38°33'47.21" North latitude, 85°21'51.10" West longitude). The proposed facility will include a 250-foot tall antenna tower, plus a 15-foot lightning arrester 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 Trimble 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 2014-00001 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

## LG&E TRIMBLE DRIVING DIRECTIONS TO SITE

1. From Trimble County Clerk, 30 Highway 42 E, Bedford, KY
2. Depart US 42/Main St. towards US 421 for 2.1 miles
3. Turn right onto Bray Ridge Road and go 1.6 miles
4. Turn left onto Gills Ridge Road and go 0.4 miles
5. Arrive at site on right

Coordinates for site: 38°33'47.21"N, 85°21'51.10"W



Prepared by:  
Keith Riggs, J.D.  
Pike Legal Group  
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  
Email: [kriggs@pikelegal.com](mailto:kriggs@pikelegal.com)



Sign in



© 2013 Google

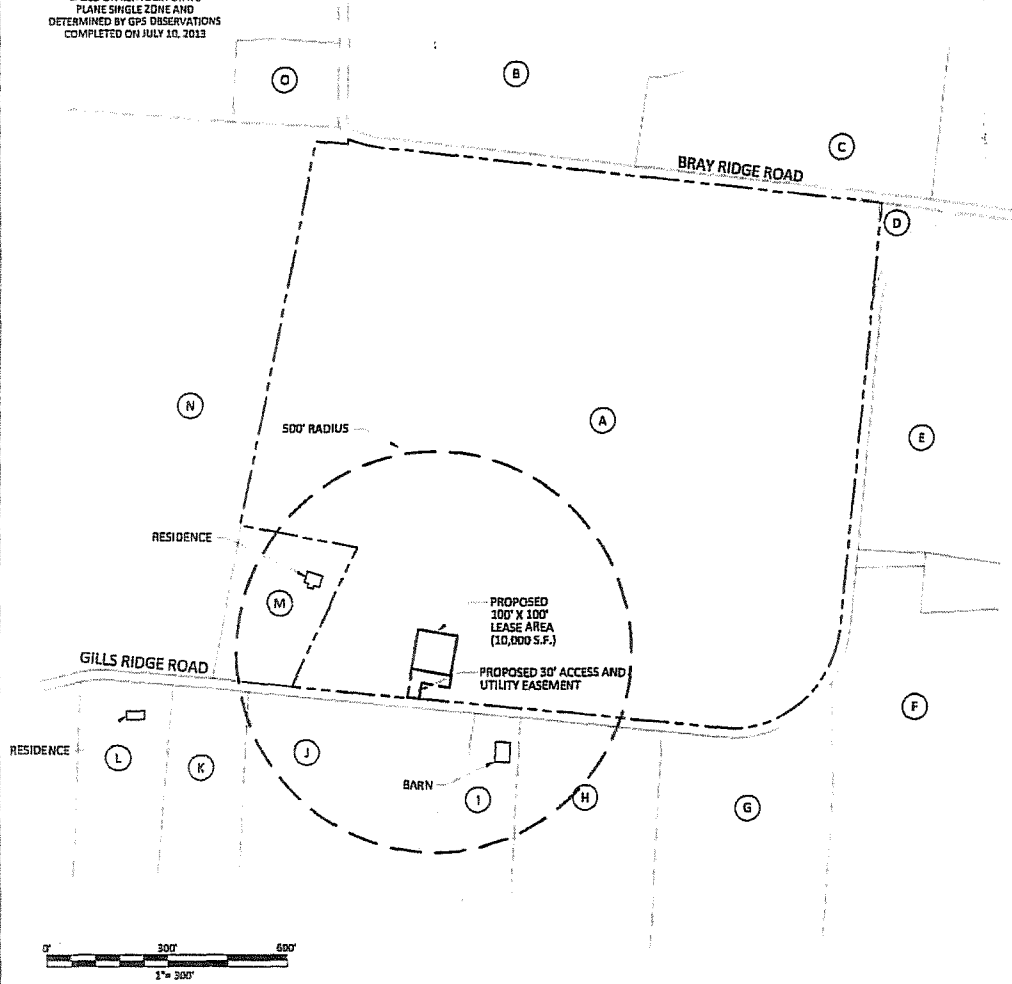
Google earth

Tour Guide 1998

Imagery Date: 11/6/2013 39°33'52.11" N 85°21'45.02" W elev: 903 ft eye alt: 6211 ft




00° 14' 13"  
 BASED ON KENTUCKY STATE  
 PLANE SINGLE ZONE AND  
 DETERMINED BY GPS OBSERVATIONS  
 COMPLETED ON JULY 10, 2013





- |   |   |
|---|---|
| <p>(A) PARCEL # 018-00-00-071.00<br/>         PYLES, JAMAE<br/>         196 BRAY RIDGE ROAD<br/>         BEDFORD, KY 40006<br/>         D.B. W84, PG. 380<br/>         NO ZONING</p> <p>(B) PARCEL # 018-00-00-068.00<br/>         BRAY, NILES AND BETTY LOU<br/>         1568 BRAY RIDGE ROAD<br/>         BEDFORD, KY 40006<br/>         D.B. 87, PG. 683<br/>         NO ZONING</p> <p>(C) PARCEL # 018-00-00-062.00<br/>         BRAY, NILES AND BETTY LOU<br/>         1568 BRAY RIDGE ROAD<br/>         BEDFORD, KY 40006<br/>         D.B. 87, PG. 683<br/>         NO ZONING</p> <p>(D) PARCEL # 018-00-00-059.01<br/>         PYLES, JIM<br/>         852 BRAY RIDGE ROAD<br/>         BEDFORD, KY 40006<br/>         D.B. 123, PG. 159<br/>         NO ZONING</p> <p>(E) PARCEL # 018-00-00-059.00<br/>         BRAY, TERRY W AND EARLENE<br/>         1111 BRAY RIDGE ROAD<br/>         BEDFORD, KY 40006<br/>         D.B. 121, PG. 711<br/>         NO ZONING</p> <p>(F) PARCEL # 019-00-00-002.00<br/>         DATHLO, AUGUST JR AND JOYCE<br/>         215 OXFORD PLACE<br/>         LOUISVILLE, KY 40207<br/>         D.B. 67, PG. 70<br/>         NO ZONING</p> <p>(G) PARCEL # 019-00-00-004.09<br/>         RAND, REGINALD W JR AND VICKY P<br/>         307 GILLS RIDGE ROAD<br/>         BEDFORD, KY 40006<br/>         D.B. 104, PG. 516<br/>         NO ZONING</p> <p>(H) PARCEL # 019-00-00-004.08<br/>         SMITH, DENNIS RAY<br/>         1016 AUDUBON PARKWAY<br/>         LOUISVILLE, KY 40213<br/>         D.B. 102, PG. 650<br/>         NO ZONING</p> | <p>(I) PARCEL # 019-00-00-004.07<br/>         CARTER, DARREN M<br/>         909 HENRY CLAY STREET<br/>         SHELBYVILLE, KY 40065<br/>         D.B. 103, PG. 551<br/>         NO ZONING</p> <p>(J) PARCEL # 019-00-00-004.06<br/>         SMITH, DENNIS RAY<br/>         1016 AUDUBON PARKWAY<br/>         LOUISVILLE, KY 40213<br/>         D.B. 116, PG. 726<br/>         NO ZONING</p> <p>(K) PARCEL # 019-00-00-004.05<br/>         PYLES, JAMAE<br/>         196 BRAY RIDGE ROAD<br/>         BEDFORD, KY 40006<br/>         D.B. W84, PG. 360<br/>         NO ZONING</p> <p>(L) PARCEL # 018-00-00-071.00<br/>         CASEY, HELEN MAYS<br/>         7006 SHALLOW LAKE ROAD<br/>         PROSPECT, KY 40059<br/>         D.B. 117, PG. 709<br/>         NO ZONING</p> <p>(M) PARCEL # 018-00-00-071.02<br/>         JENIFER LOUDEN AND SHAWN KELLEY<br/>         549 GILLS RIDGE ROAD<br/>         BEDFORD, KY 40006<br/>         D.B. 130, PG. 69<br/>         NO ZONING</p> <p>(N) PARCEL # 018-00-00-071.01<br/>         BRAY, NILES AND BETTY K<br/>         1568 BRAY RIDGE ROAD<br/>         BEDFORD, KY 40006<br/>         D.B. 111, PG. 272<br/>         NO ZONING</p> <p>(D) PARCEL # 018-00-00-064.00<br/>         GILLEN, PATRICK D<br/>         1901 BRAY RIDGE ROAD<br/>         BEDFORD, KY 40006<br/>         D.B. 124, PG. 624<br/>         NO ZONING</p> |
|---|---|

**GENERAL NOTE:**

- ALL INFORMATION SHOWN HEREON WAS OBTAINED FROM THE RECORDS OF THE TRIMBLE COUNTY KENTUCKY PROPERTY VALUATION ADMINISTRATION OFFICE ON 7.10.13. 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



20 VILLAGE PLAZA  
 SHELBYVILLE, KY 40065  
 502-497-8382


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**SURVEY**

REV.	DATE	DESCRIPTION
1	09.18.13	SURVEY - BOUNDARY

SITE INFORMATION:

**LG&E TRIMBLE**

GILLS RIDGE ROAD  
 BEDFORD, KY 40006

SITE NUMBER:  
**KYLSU1534**

POD NUMBER: 13-0748

DRAWN BY: CSA  
 CHECKED BY: MEP  
 DATE: 07.16.13

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. Jerry L. Powell  
Trimble County Judge Executive  
Trimble County Fiscal Court  
P.O. Box 251  
Bedford, KY 40006

RE: Notice of Proposal to Construct Wireless Communications Facility  
Kentucky Public Service Commission Docket No. 2014-00001  
Site Name: LG&E Trimble

Dear Judge Powell:

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 Gills Ridge Road, Bedford, KY 40006 (38°33'47.21" North latitude, 85°21'51.10" West longitude). The proposed facility will include a 250-foot tall antenna tower, plus a 15-foot lightning arrester 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 2014-00001 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

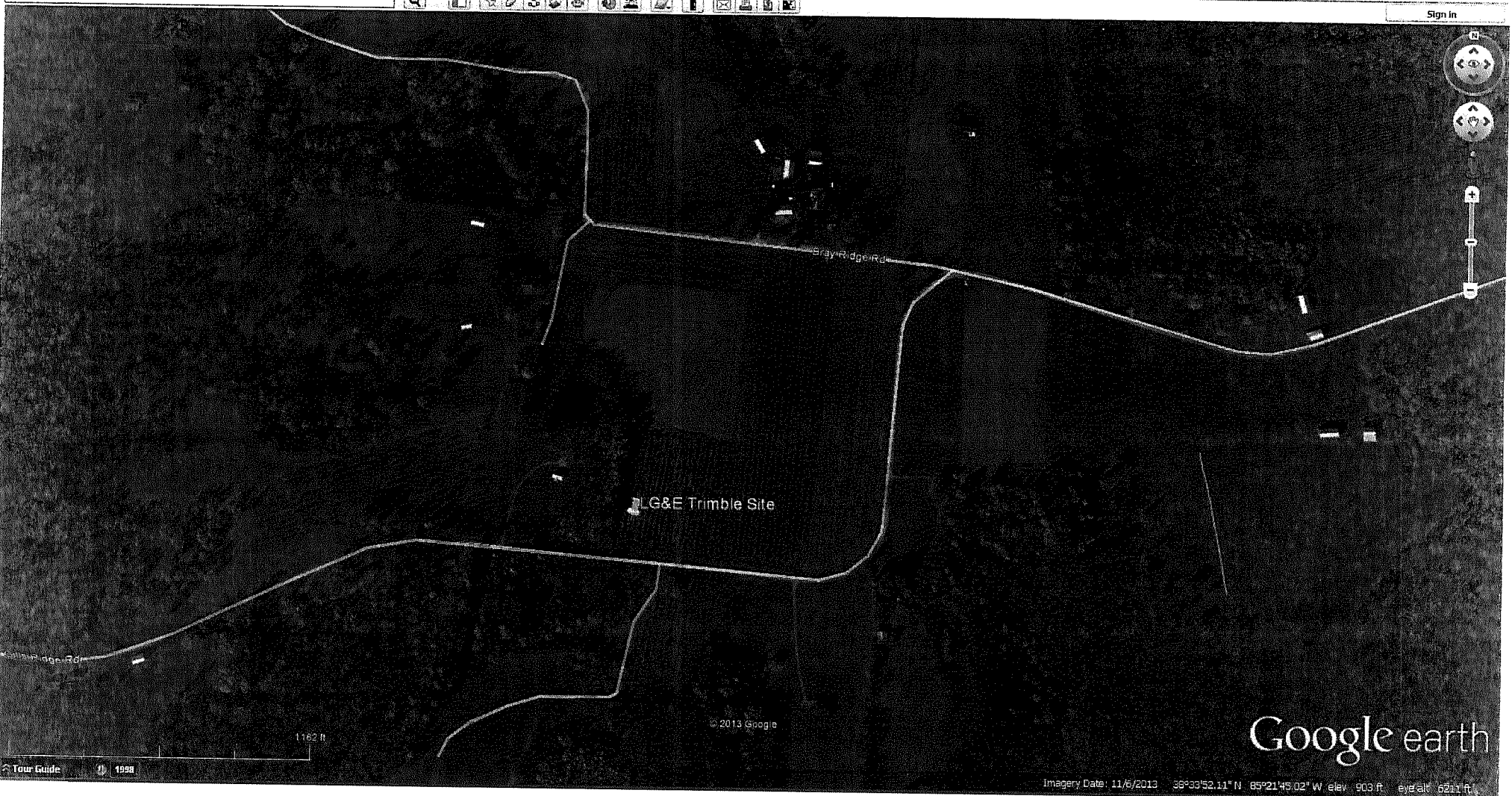
## LG&E TRIMBLE DRIVING DIRECTIONS TO SITE

1. From Trimble County Clerk, 30 Highway 42 E, Bedford, KY
2. Depart US 42/Main St. towards US 421 for 2.1 miles
3. Turn right onto Bray Ridge Road and go 1.6 miles
4. Turn left onto Gills Ridge Road and go 0.4 miles
5. Arrive at site on right

Coordinates for site: 38°33'47.21"N, 85°21'51.10"W



Prepared by:  
Keith Riggs, J.D.  
Pike Legal Group  
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  
Email: [kriggs@pikelegal.com](mailto:kriggs@pikelegal.com)



Sign In

L&E Trimble Site

Gray Ridge Rd

White Ridge Rd

1182 ft

© 2013 Google

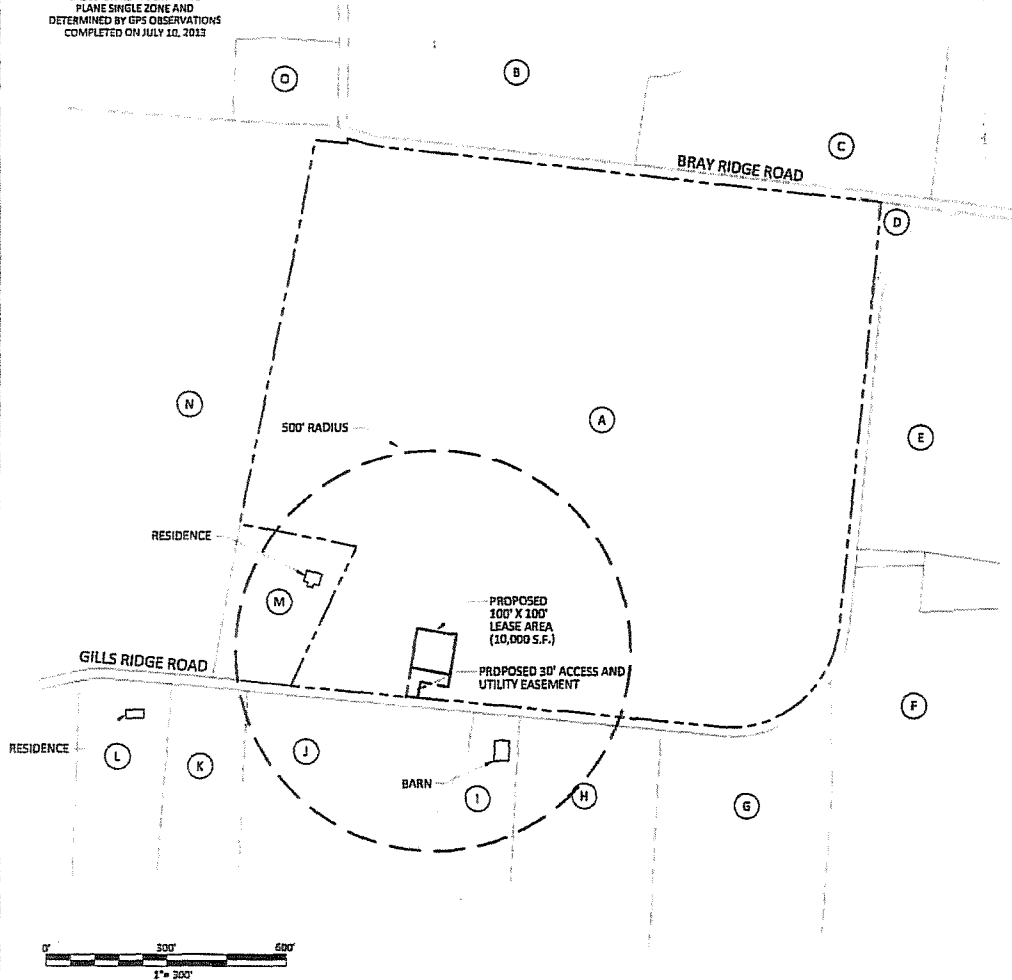
Google earth

Tour Guide 1938

Imagery Date: 11/6/2013 38°33'52.11" N 85°21'45.02" W elev. 903 ft. eye alt. 6211 ft.




10° 14' 13"  
 BASED ON KENTUCKY STATE  
 PLANE SINGLE ZONE AND  
 DETERMINED BY GPS OBSERVATIONS  
 COMPLETED ON JULY 10, 2013





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|--|--|
| <p>(A) PARCEL # 018-00-00-071.00<br/>       PYLES, JAMAE<br/>       196 BRAY RIDGE ROAD<br/>       BEDFORD, KY 40006<br/>       D.B. WB4, PG. 380<br/>       NO ZONING</p> <p>(B) PARCEL # 018-00-00-068.00<br/>       BRAY, NILES AND BETTY LOU<br/>       1568 BRAY RIDGE ROAD<br/>       BEDFORD, KY 40006<br/>       D.B. 87, PG. 683<br/>       NO ZONING</p> <p>(C) PARCEL # 018-00-00-062.00<br/>       BRAY, NILES AND BETTY LOU<br/>       1568 BRAY RIDGE ROAD<br/>       BEDFORD, KY 40006<br/>       D.B. 87, PG. 683<br/>       NO ZONING</p> <p>(D) PARCEL # 018-00-00-059.01<br/>       PYLES, JIM<br/>       852 BRAY RIDGE ROAD<br/>       BEDFORD, KY 40006<br/>       D.B. 123, PG. 159<br/>       NO ZONING</p> <p>(E) PARCEL # 018-00-00-059.00<br/>       BRAY, TERRY W AND EARLENE<br/>       1111 BRAY RIDGE ROAD<br/>       BEDFORD, KY 40006<br/>       D.B. 121, PG. 711<br/>       NO ZONING</p> <p>(F) PARCEL # 019-00-00-002.00<br/>       DATTILO, AUGUST JR AND JOYCE<br/>       215 OXFORD PLACE<br/>       LOUISVILLE, KY 40207<br/>       D.B. 67, PG. 70<br/>       NO ZONING</p> <p>(G) PARCEL # 019-00-00-004.09<br/>       RAND, REGINALD W JR AND VICKY P<br/>       307 GILLS RIDGE ROAD<br/>       BEDFORD, KY 40006<br/>       D.B. 104, PG. 516<br/>       NO ZONING</p> <p>(H) PARCEL # 019-00-00-004.08<br/>       SMITH, DENNIS RAY<br/>       1016 AUDUBON PARKWAY<br/>       LOUISVILLE, KY 40213<br/>       D.B. 102, PG. 650<br/>       NO ZONING</p> | <p>(I) PARCEL # 019-00-00-004.07<br/>       CARTER, DARREN M<br/>       909 HENRY CLAY STREET<br/>       SHELSVILLE, KY 40065<br/>       D.B. 103, PG. 551<br/>       NO ZONING</p> <p>(J) PARCEL # 019-00-00-004.06<br/>       SMITH, DENNIS RAY<br/>       1016 AUDUBON PARKWAY<br/>       LOUISVILLE, KY 40213<br/>       D.B. 116, PG. 726<br/>       NO ZONING</p> <p>(K) PARCEL # 019-00-00-004.05<br/>       PYLES, JAMAE<br/>       196 BRAY RIDGE ROAD<br/>       BEDFORD, KY 40006<br/>       D.B. WB4, PG. 360<br/>       NO ZONING</p> <p>(L) PARCEL # 018-00-00-071.00<br/>       CASEY, HELEN MAYS<br/>       7006 SHALLOW LAKE ROAD<br/>       PROSPECT, KY 40059<br/>       D.B. 117, PG. 709<br/>       NO ZONING</p> <p>(M) PARCEL # 018-00-00-071.02<br/>       JENIFER LOUDEN AND SHAWN KELLEY<br/>       540 GILLS RIDGE ROAD<br/>       BEDFORD, KY 40006<br/>       D.B. 130, PG. 69<br/>       NO ZONING</p> <p>(N) PARCEL # 018-00-00-071.01<br/>       BRAY, NILES AND BETTY K<br/>       1569 BRAY RIDGE ROAD<br/>       BEDFORD, KY 40006<br/>       D.B. 111, PG. 272<br/>       NO ZONING</p> <p>(D) PARCEL # 018-00-00-054.00<br/>       GILLEN, PATRICK D<br/>       1901 BRAY RIDGE ROAD<br/>       BEDFORD, KY 40006<br/>       D.B. 124, PG. 624<br/>       NO ZONING</p> |
|--|--|

**GENERAL NOTE:**

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- THIS MAP IS FOR GENERAL INFORMATIONAL PURPOSES ONLY AND IS NOT A BOUNDARY SURVEY



20 WILAGE PLAZA  
 SHELSVILLE, KY 40065  
 502-437-9259


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**SURVEY**

REV.	DATE	DESCRIPTION
1	09.18.13	SURVEY - BOUNDARY

SITE INFORMATION:

**LG&E TRIMBLE**

GILLS RIDGE ROAD  
 BEDFORD, KY 40006

SITE NUMBER:  
 KYLSU1534

POD NUMBER: 13-0748

DRAWN BY: CSA  
 CHECKED BY: MEP  
 DATE: 07.16.13

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

SHEET NUMBER:  
**B-2**

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



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 TELEFAX: 502-255-7797**

Trimble Banner  
Attn: Deborah Garrett  
Advertising Director  
322 Main Street  
Bedford, KY 40006

RE: Legal Notice Advertisement  
Site Name: LG&E Trimble

Dear Ms. Garrett,

Please publish the following legal notice advertisement in the next edition of the *Trimble Banner*.

**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 Gills Ridge Road, Bedford, KY 40006 (38°33'47.21" North latitude, 85°21'51.10" 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 2014-00001 in any correspondence sent in connection with this matter.**

After this advertisement have 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,

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

Keith Riggs

**SITE NAME: LG&E TRIMBLE**  
**NOTICE SIGNS**

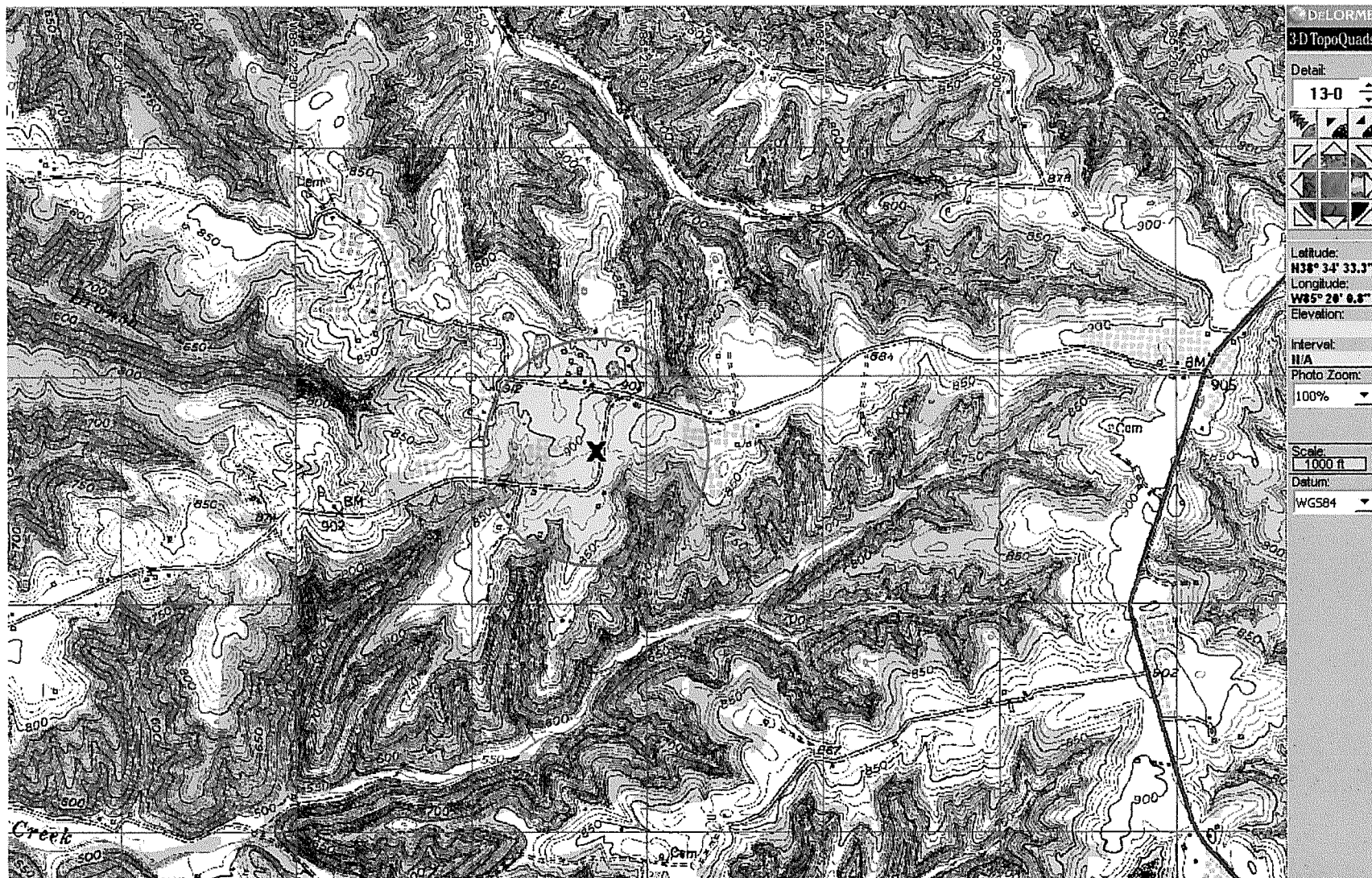
The signs are at least (2) feet by four (4) feet in size, of durable material, with the text printed in black letters at least one (1) inch in height against a white background, except for the word "**tower**," which is at least four (4) inches in height.

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. 2014-00001 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. 2014-00001 in your correspondence.

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





LG&E Trimble: 38.563861 -85.360722