

**COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION**

RECEIVED
OCT 3 2016
Public Service
Commission

In the Matter of:
THE APPLICATION OF)
SBA TOWERS, LLC)
FOR ISSUANCE OF A CERTIFICATE OF PUBLIC)
CONVENIENCE AND NECESSITY TO CONSTRUCT) CASE NO.: 2016-00158
A WIRELESS COMMUNICATIONS FACILITY)
IN THE COMMONWEALTH OF KENTUCKY)
IN THE COUNTY OF GREENUP)

SITE NAME: GREENUP

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

SBA Towers, LLC, a Florida limited liability company ("**Applicant**"), by and through the undersigned 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 customers 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: SBA Towers, LLC, a Florida limited liability company, 8051 Congress Avenue, Boca Raton, FL 33487 and 5900 Broken Sound Parkway NW, Boca Raton, FL 33487.

2. Applicant proposes to remove an existing 90 foot tall wooden tower and to replace it with a new 154-foot tall monopole and antenna for cellular telecommunications services or personal communications services, which is to be located in an area outside the jurisdiction of a planning commission. 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 and regulatory authority.

3. The Articles of Organization of SBA Towers, LLC were filed with the Florida Secretary of State in Tallahassee, Florida on June 30, 2011, effective June 30, 2011 a copy of which is attached as part of **Exhibit A**. The Certificate of Conversion from SBA Towers, Inc. to SBA Towers, LLC effective June 30, 2011 is also attached as a part of **Exhibit A**. SBA Towers, LLC is in good standing in Florida and is authorized to transact business in Kentucky. A copy of the certificate to transact business in the Commonwealth of Kentucky is also included as a part of **Exhibit A**.

West Virginia PCS Alliance, L.C., whose antennas are located on the existing tower and will be located on the new monopole, operates on frequencies licensed by the Federal Communications Commission ("FCC") pursuant to applicable FCC requirements. A copy of the FCC license for West Virginia PCS Alliance, L.C. to provide wireless services is attached to this Application or described as part of **Exhibit B**. The facility will be constructed and operated in accordance with applicable FCC

regulations. SBA Towers, LLC will build, own and manage the tower and tower compound where West Virginia PCS Alliance, L.C. will place its equipment building, antennas, radio electronics equipment and appurtenances. (West Virginia PCS Alliance, L.C. is an indirect wholly-owned subsidiary of Shenandoah Telecommunications Company – “Shentel”; see Notification to Kentucky PSC of the Proposed Transfer of Control of nTelos Holdings Corp. to Shentel, dated May 5, 2016, attached hereto as part of **Exhibit B**).

5. The public convenience and necessity require the construction of the proposed WCF. The construction of the WCF will bring or improve West Virginia PCS Alliance, L.C.'s services to an area currently not served or not adequately served by increasing coverage and/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 West Virginia PCS Alliance, L.C. 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 West Virginia PCS Alliance, L.C.'s network design that must be in place to provide adequate coverage to the service area. A statement from the Radio Frequency Design Engineer of Shentel / West Virginia PCS Alliance, L.C. outlining this need is attached as part of **Exhibit B**.

6. To address the above-described service needs, Applicant proposes to construct a WCF in Greenup County at 311 S. Laurel St., Greenup, KY 41144 (38°34'19.354" North latitude, 82°50'27.671" 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 Jack T. Rice, Jerry R. Rice, Joy

Rice Marshall, Richard Fletcher, Lora Helms and Gail Murray, pursuant to deed of record in Deed Book 140, Page 319 in the office of the Greenup County Clerk. The proposed WCF will consist of a 150-foot tall monopole tower, with an approximately 4-foot tall lightning arrestor attached at the top, for a total height of 154-feet. The WCF will also utilize new concrete foundations and a shelter or cabinets which currently accommodate the placement of the West Virginia PCS Alliance, L.C.'s radio electronics equipment and appurtenant equipment. The WCF equipment cabinet or shelter is approved or will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound is 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 C** and **Exhibit D** and a shelter or cabinets which currently accommodate the placement of the West Virginia PCS Alliance, L.C.'s radio electronics equipment and appurtenant equipment. The WCF equipment cabinet or shelter is approved or will be approved for use in the Commonwealth of Kentucky by the relevant building inspector. The WCF compound is 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 C** and **Exhibit D**.

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

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 has also been included as part of **Exhibit C**.

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 D**.

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 the necessary antennas on an existing structure. When suitable towers or structures exist, West Virginia PCS Alliance, L.C. attempts to co-locate on existing structures such as communications towers or other structures capable of supporting its facilities; however, no other suitable or available co-location site was found to be located in the vicinity of the site. In this instance, the existing tower will be removed and replaced by the proposed, new 154-foot monopole.

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 Application for Kentucky Airport Zoning Commission ("**KAZC**") Approval to construct the tower is attached as **Exhibit G**, as is the response of the KAZC, stating that no permit is required.

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** is Nathan Meyer, PBM Wireless Services LLC, 6869 Windjammer Drive, Brownsburg, IN 46112; (317) 501-9164.

15. Applicant, successor in interest to SBA Towers, Inc. following conversion to a limited liability company, and 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 (Memorandum of Lease) recorded with the County Clerk and of the assignment of lease to Applicant are 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 D** 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 Mauricio Agredo, and the identity and qualifications of each person directly responsible for design and construction of the proposed tower are contained within **Exhibits C and D**.

18. As noted on the Survey attached as part of **Exhibit C** (specifically, on the Site Plan found at Sheet C-1), the engineer has determined that the site is not within any flood hazard area.

19. **Exhibit C** includes a map drawn to a scale of no less than 1 inch equals 200 feet 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 C**.

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, the commission docket number under which this Application will be processed, and has been informed of his or her right to request intervention. A list of the notified property owners and copies of the notice letters 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 (2) weeks after filing of the Application, and a copy of the posted signs are attached as **Exhibit N**. Notice of the location of the proposed facility has been published in a newspaper of general circulation in the county in which the WCF is proposed to be located. See **Exhibit N** for a copy of the newspaper publication.

23. The character of the general area where the proposed facility is to be located is wooded, with some low-density rural residential nearby. The most immediate neighboring land use is the Sunset Cemetery. The existing land use of the specific property involved is vacant, except for an existing wooden telecommunications pole (to be replaced by the subject monopole) and related equipment.

24. West Virginia PCS Alliance, L.C. currently operates from the existing wood pole at this site location. West Virginia PCS Alliance, L.C. will remove its installation from the existing wood pole once the new replacement monopole is installed and in operation. The process that was originally used by the West Virginia PCS Alliance, L.C. 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. West Virginia PCS Alliance, L.C.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 when searching for sites for antennas that would provide the coverage deemed

necessary by West Virginia PCS Alliance, L.C. 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**.

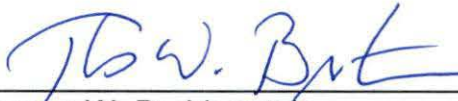
25. All Exhibits to this Application are hereby incorporated by reference as if fully set out as part of the Application.

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

Thomas W. Breidenstein
Counsel
Direct: 859-652-7604
Mobile: 513-607-3452
Fax: 859-425-7952
tbreidenstein@stites.com
STITES & HARBISON PLLC
RiverCenter II
100 E. RiverCenter Blvd., Ste. 450
Covington, KY 41011

WHEREFORE, Applicant respectfully requests 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,



Thomas W. Breidenstein

Counsel

tbreidenstein@stites.com

STITES & HARBISON PLLC

RiverCenter II

100 E. RiverCenter Blvd., Ste. 450

Covington, KY 41011

Direct: 859-652-7604

Mobile: 513-607-3452

Fax: 859-425-7952

LIST OF EXHIBITS

- A - Articles of Incorporation and Certificate of Conversion SBA Towers, Inc. to SBA Towers, LLC**
- B - FCC License Documentation**
- C - Construction Plans**
- D - Structural Design and Foundation Design**
- E - Competing Utilities, Corporations, or Persons List**
- 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 - Photos of Posted Notices**
- O - Search Area Map**

Exhibit A

**Articles of Incorporation and Certificate of Conversion SBA Towers, Inc. to SBA
Towers, LLC**



FLORIDA DEPARTMENT OF STATE
Division of Corporations

June 30, 2011

The Articles of Organization for SBA TOWERS, LLC were filed on June 30, 2011, effective June 30, 2011, and assigned document number L11000076140. Please refer to this number whenever corresponding with this office.

To maintain "active" status with the Division of Corporations, an annual report must be filed yearly between January 1st and May 1st beginning in the year following the file date or effective date indicated above. If the annual report is not filed by May 1st, a \$400 late fee will be added. **It is your responsibility to remember to file your annual report in a timely manner.**

A Federal Employer Identification Number (FEI/EIN) will be required when this report is filed. Contact the IRS at 1-800-829-4933 for an SS-4 form or go to www.irs.gov.

Please be aware if the limited liability company address changes, it is the responsibility of the limited liability company to notify this office.

Should you have any questions regarding this matter, please contact this office at the address given below.

Gretchen Harvey
Document Specialist Supervisor
Registration/Qualification Section
Division of Corporations

Letter Number: 311A00015811


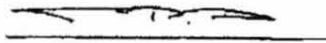
www.sunbiz.org

Division of Corporations - P.O. BOX 6327 -Tallahassee, Florida 32314

CERTIFICATE OF CONVERSION

This Certificate of Conversion and attached Articles of Organization are submitted to convert the following "Other Business Entity" into a Florida Limited Liability Company in accordance with s.608.439, Florida Statutes.

- First: The name of the "Other Business Entity" immediately prior to the filing of this Certificate of Conversion is: SBA Towers, Inc.
- Second: The "Other Business Entity" is a corporation, first organized, formed or incorporated under the laws of Florida on May 22, 1997.
- Third: The name of the Florida Limited Liability Company as set forth in the attached Articles of Organization: SBA Towers, LLC
- Fourth: The conversion shall become effective at 11:58 p.m. on June 30, 2011.
- Fifth: The conversion is permitted by the applicable law governing the other business entity and the conversion complies with such law and the requirements of s.608.439, F.S., in effecting the conversion.
- Sixth: The "Other Business Entity" currently exists on the official records of the jurisdiction under which it is currently organized, formed or incorporated.
- Seventh: SIGNATURES FOR EACH ENTITY

<u>Name of Entity</u>	<u>Signature</u>	<u>Typed of Printed Name of Individual and Title</u>
SBA Towers, Inc.		Thomas P. Hunt Senior Vice President
SBA Towers, LLC		Thomas P. Hunt Senior Vice President

FILED
11 JUN 30 PM 2:23
SECRETARY OF STATE
TALLAHASSEE, FLORIDA

FILED
11 JUN 30 PM 2:24
SECRETARY OF STATE
TALLAHASSEE, FLORIDA

ARTICLES OF ORGANIZATION
OF
SBA TOWERS, LLC

ARTICLE I
NAME

The name of the limited liability company (the "Company") is: SBA TOWERS, LLC

ARTICLE II
ADDRESS

The mailing address and street address of the principal office of the Company are:

5900 Broken Sound Parkway NW
Boca Raton, FL 33487

ARTICLE III
INITIAL REGISTERED OFFICE AND AGENT

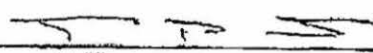
The name and street address of the Company's initial registered agent are:

Corporate Creations Network Inc.
11380 Prosperity Farms Rd, #221E
Palm Beach Gardens, FL 33410

ARTICLE IV

The conversion shall become effective as of 11:58 P.M. Eastern on June 30, 2011.

IN WITNESS WHEREOF, the undersigned has executed these Articles of Organization
this 30 day of June, 2011.


Thomas P. Hunt,
Authorized Representative of
SBA Senior Finance II LLC, sole member

**CERTIFICATE OF ACCEPTANCE BY
REGISTERED AGENT**

Pursuant to the provisions of the Florida Limited Liability Company Act, the undersigned submits the following statement in accepting the designation as registered agent of SBA TOWERS, LLC, a Florida limited liability company (the "Company"), in the Company's Articles of Organization:

Having been named as registered agent and to accept service of process for the Company at the registered office designated in the Company's Articles of Organization, the undersigned accepts the appointment as registered agent and agrees to act in this capacity. The undersigned further agrees to comply with the provisions of all statutes relating to the proper and complete performance of its duties, and the undersigned is familiar with and accepts the obligations of its position as registered agent.

IN WITNESS WHEREOF, the undersigned has executed this Certificate this 30 day of June, 2011.

Corporate Creations Network Inc.

By: 
Name: _____
Title: Jim Perkins, Vice President

FILED
11 JUN 30 PM 2:24
SECRETARY OF STATE
TALLAHASSEE, FLORIDA

Commonwealth of Kentucky
Alison Lundergan Grimes, Secretary of State

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

Certificate of Authorization

Authentication number: 176326
Visit <https://app.sos.ky.gov/ftshow/certvalidate.aspx> to authenticate this certificate.

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

SBA TOWERS, LLC

, a limited liability company authorized under the laws of the state of Florida, is authorized to transact business in the Commonwealth of Kentucky, and received the authority to transact business in Kentucky on March 2, 1998.

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

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my Official Seal at Frankfort, Kentucky, this 10th day of May, 2016, in the 224th year of the Commonwealth.



Alison Lundergan Grimes

Alison Lundergan Grimes
Secretary of State
Commonwealth of Kentucky
176326/0452998

Exhibit B

FCC License Documentation

REFERENCE COPY

This is not an official FCC license. It is a record of public information contained in the FCC's licensing database on the date that this reference copy was generated. In cases where FCC rules require the presentation, posting, or display of an FCC license, this document may not be used in place of an official FCC license.



**Federal Communications Commission
Wireless Telecommunications Bureau**

RADIO STATION AUTHORIZATION

LICENSEE: WEST VIRGINIA PCS ALLIANCE, L.C.

ATTN: BRIAN J. O'NEIL
WEST VIRGINIA PCS ALLIANCE, L.C.
1154 SHENANDOAH VILLAGE DR.
WAYNESBORO, VA 22980

Call Sign WPOH986	File Number 0006731334
Radio Service CW - PCS Broadband	

FCC Registration Number (FRN): 0002049328

Grant Date 06-22-2015	Effective Date 06-22-2015	Expiration Date 06-23-2025	Print Date 06-23-2015
Market Number MTA018	Channel Block B	Sub-Market Designator 2	
Market Name Cincinnati-Dayton			
1st Build-out Date 08-04-2000	2nd Build-out Date 06-23-2005	3rd Build-out Date	4th Build-out Date

Waivers/Conditions:

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

License renewal granted on a conditional basis, subject to the outcome of FCC proceeding WT Docket No. 10-112 (see FCC 10-86, paras. 113 and 126).

Conditions:

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

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

Licensee Name: WEST VIRGINIA PCS ALLIANCE, L.C.

Call Sign: WPOH986

File Number: 0006731334

Print Date: 06-23-2015

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

Reference Copy



**STOLL
KEENON
OGDEN**
P.L.L.C.

300 WEST VINE STREET
SUITE 2100
LEXINGTON, KY 40507-1801
MAIN: (859) 231-3000
FAX: (859) 253-1093

DOUGLAS F. BRENT
DIRECT DIAL: (502) 568-5734
DIRECT FAX: (502) 562-0934
Douglas.Brent@skofirm.com
RECEIVED

May 5, 2016

MAY 05 2016

Aaron D. Greenwell
Acting Executive Director
Kentucky Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602-0615

PUBLIC SERVICE
COMMISSION

**Re: Notification of the Proposed Transfer of Control of NTELOS Holdings Corp.
to Shenandoah Telecommunications Company**

Dear Mr. Greenwell:

Pursuant to the Commission's Order issued in Administrative Case No. 370 on January 8, 1998, this letter is to notify the Commission that Shenandoah Telecommunications Company ("Shentel") and NTELOS Holdings Corp., the parent company of West Virginia PCS Alliance, L.C. d/b/a NTELOS ("NTELOS"), have entered into a merger agreement pursuant to which Shentel will acquire direct ownership and control of NTELOS Holdings Corp. and NTELOS, as described more fully below (the "Merger" or "Transaction"). The proposed transaction is scheduled to close on May 6, 2016.

The Parties

Shentel. Shentel is a holding company that provides, through its operating subsidiaries, a broad range of telecommunications services. Shentel is traded on the NASDAQ Global Select Market under the symbol "SHEN." Shentel has a long, successful history of providing a broad range of communications services in rural markets in the mid-Atlantic United States. Through its affiliates Shentel provides: wireless voice and data services; voice, video, and Internet services (delivered over hybrid-fiber coaxial cable networks); fiber network services; and traditional local and long-distance telephone services. Shentel has been providing telephone service in rural Shenandoah County, Virginia since 1902. It began offering DSL Internet service to its telephone subscribers in 1994, and now is able to offer high-speed Internet access service through 100% of its approximately 21,600 access lines. Shentel began building its fiber optic network, which now totals more than 4,400 route miles serving rural communities in Virginia, West Virginia, Maryland and Pennsylvania, in 1984. In 1990, Shentel's wireless subsidiary, Shenandoah Personal Communications, LLC ("Shentel PC") began offering rural cellular

service, and it became the first rural PCS provider in the United States (through an agreement with American Personal Communications) in 1995.

Since 1999, Shentel PC has been the exclusive wireless communications affiliate of Sprint in primarily rural portions of West Virginia, Pennsylvania, Maryland and Virginia. Under their longstanding partnership in providing Sprint-branded wireless service in these areas, Shentel PC deploys and operates the wireless network and manages local retail operations, while Sprint holds and controls the spectrum used in the network, provides customer handsets, and provides customer service and other managed services. Through this partnership with Sprint, Shentel PC provides digital wireless service to more than 440,000 customers as of June 30, 2015.

NTELOS. NTELOS, through various operating subsidiaries, including West Virginia PCS Alliance, L.C. in Kentucky, is a regional provider of digital wireless communications services to customers primarily in West Virginia and Virginia, as well as parts of Maryland, North Carolina, Pennsylvania, Ohio, and Kentucky. It operates a CDMA digital PCS network that covers more than 86,000 consumers in Kentucky, and has deployed 4G LTE to some communities in the state. NTELOS provides retail wireless services to approximately 297,500 subscribers, of which 7,041 reside in Kentucky. NTELOS also provides wholesale network access to other telecommunications carriers, most notably through an arrangement with subsidiaries of Sprint. NTELOS presently operates one (1) retail store in Kentucky.

Sprint. Sprint is one of the nation's leading mobile broadband providers. Sprint and its affiliates served more than 57 million connections as of June 30, 2015 and is widely recognized for developing, engineering and deploying innovative technologies, including the first wireless 4G service from a national carrier in the United States; leading no-contract brands including Virgin Mobile USA, Boost Mobile, and Assurance Wireless; instant national and international push-to-talk capabilities; and a global Tier 1 Internet backbone. A more detailed description of Sprint's operations can be found at: <http://newsroom.sprint.com/about-us/>.

For purposes of this Notification, copies of any correspondence or communications should be additionally directed to:

K.C. Halm
Bradley Guyton
Davis Wright Tremaine LLP
1919 Pennsylvania Ave., NW, Suite 800
Washington, D.C. 20006

Counsel to Shenandoah Telecommunications Company

and

John Monroe
Counsel, State Regulatory Affairs
3065 Akers Mill Road, SE, 7th Floor
Atlanta, GA 30339

Counsel to Sprint

The Transaction

On August 10, 2015, Shentel and NTELOS entered into a merger agreement pursuant to which NTELOS (and West Virginia PCS Alliance L.C.) will become an indirect wholly-owned subsidiary of Shentel. As a result of the merger, Shentel will acquire all of NTELOS' operations, including wireless network assets and spectrum, retail stores and retail subscribers of NTELOS, including those in Kentucky. A copy of Shentel's pre- and post-close organization is set forth as Exhibit A.

Concurrently with the signing of the agreement with NTELOS, Shentel and Sprint entered into a series of agreements, whereby Shentel will, immediately after consummation of the merger, assign to Sprint all of the FCC spectrum licenses held by NTELOS and its operating subsidiaries, as well as certain spectrum leases acquired from NTELOS. Shentel will convert NTELOS' retail wireless customers into Sprint-branded customers. Shentel will also upgrade the remainder of NTELOS' current network to Sprint's enhanced LTE architecture, and will invest up to \$350 million and deploy 150 additional cell sites to expand coverage in the NTELOS service area, including approximately six (6) in Kentucky.

Post-transaction and pursuant to amended affiliate agreements between the Joint Petitioners, Shentel PC will offer Sprint-branded wireless service, including to NTELOS' existing customers, in NTELOS' service areas in Kentucky and elsewhere, as well as in the areas in which Shentel currently acts as Sprint's affiliate. Post-transaction, Shentel PC intends to continue to operate the NTELOS retail stores currently operating in Kentucky.

No NTELOS subscribers will lose service as a result of this transaction. Upon close of this transaction, and for a period of up to twenty-four months, current NTELOS customers may keep their existing handset and will be transitioned to Sprint rate plans that will be, for the vast majority of subscribers, identical or substantially similar to their existing service contracts for the duration of their existing contracts. During that time, however, and following expiration of their service contracts, NTELOS customers will also have access to a broader array of handsets and service plans, including the many options that are available to Shentel PC customers through its affiliation with Sprint. Current subscribers for whom substantially similar rate plans cannot be created will be able to choose a different rate plan offered by Sprint and Shentel. Following a transition period, all customers will be transitioned to a more robust service delivery platform, which will permit Shentel and Sprint to provide greater service options, expanded handsets, and enhanced features.

Shentel has begun the process of informing NTELOS customers about the pending changes, in part through a new website that provides detailed information in plain language for NTELOS customers: <http://welcometoshentel.com/>. The Parties will continue these efforts to inform NTELOS customers about the pending changes through other forms of direct customer communication, including direct mail notice to all customers.

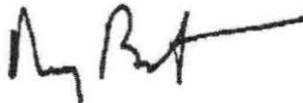
The transaction will serve the public interest of Kentucky consumers and, indeed, the state in general, in a variety of ways. NTELOS' customers, including its customers in rural areas, will benefit greatly from this transaction. These customers will be able to avail themselves of the planned new infrastructure investments, enhanced wireless coverage, improved service quality, broader variety of service plans and handsets, expanded roaming opportunities, and the expansion of service to new areas. Together, these benefits will enhance wireless competition as well as mobile broadband service offered in rural areas, and help promote deployment of enhanced broadband technologies, products, and services to those residing in rural areas.

Shentel's acquisition of NTELOS and subsequent assignment of spectrum to Sprint will provide Shentel, operating as a Sprint affiliate, with the increased incentive and ability to make significant upgrades to the existing NTELOS network in Kentucky and elsewhere. Shentel's infrastructure investments will significantly improve network service and coverage, as the planned deployment will accelerate the upgrade of the current NTELOS 3G network to 4G LTE network capabilities, improve service quality for consumers using the existing NTELOS network, and promote competition in the provision of mobile broadband service in these rural areas.

Existing NTELOS customers will enjoy more service, handset, and roaming options than ever before. These added benefits will enable customers to maximize the improved service that will be provided within the NTELOS footprint, as well as improve their overall wireless experience when they travel outside of those service areas. In addition, this transaction will enable Shentel and Sprint to continue their partnership's history of deploying high-capacity wireless networks to serve rural markets.

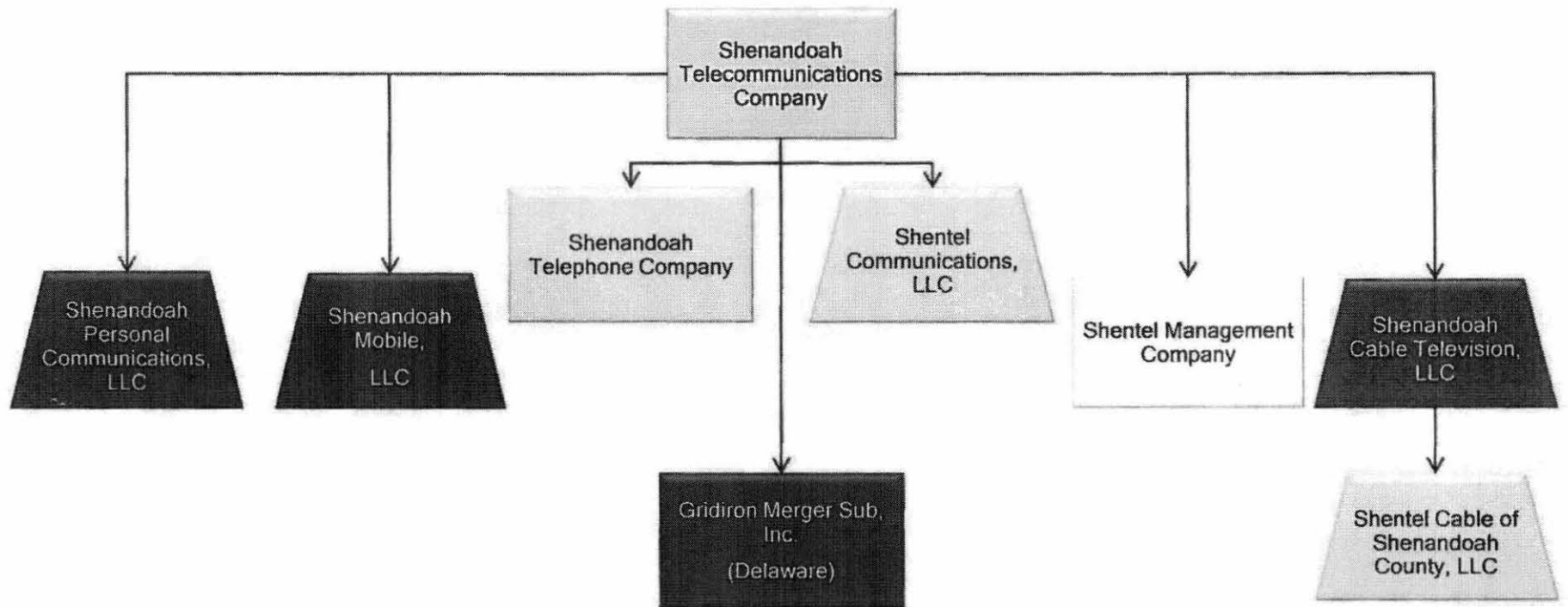
Please do not hesitate to contact the undersigned if you have any questions.

Sincerely,

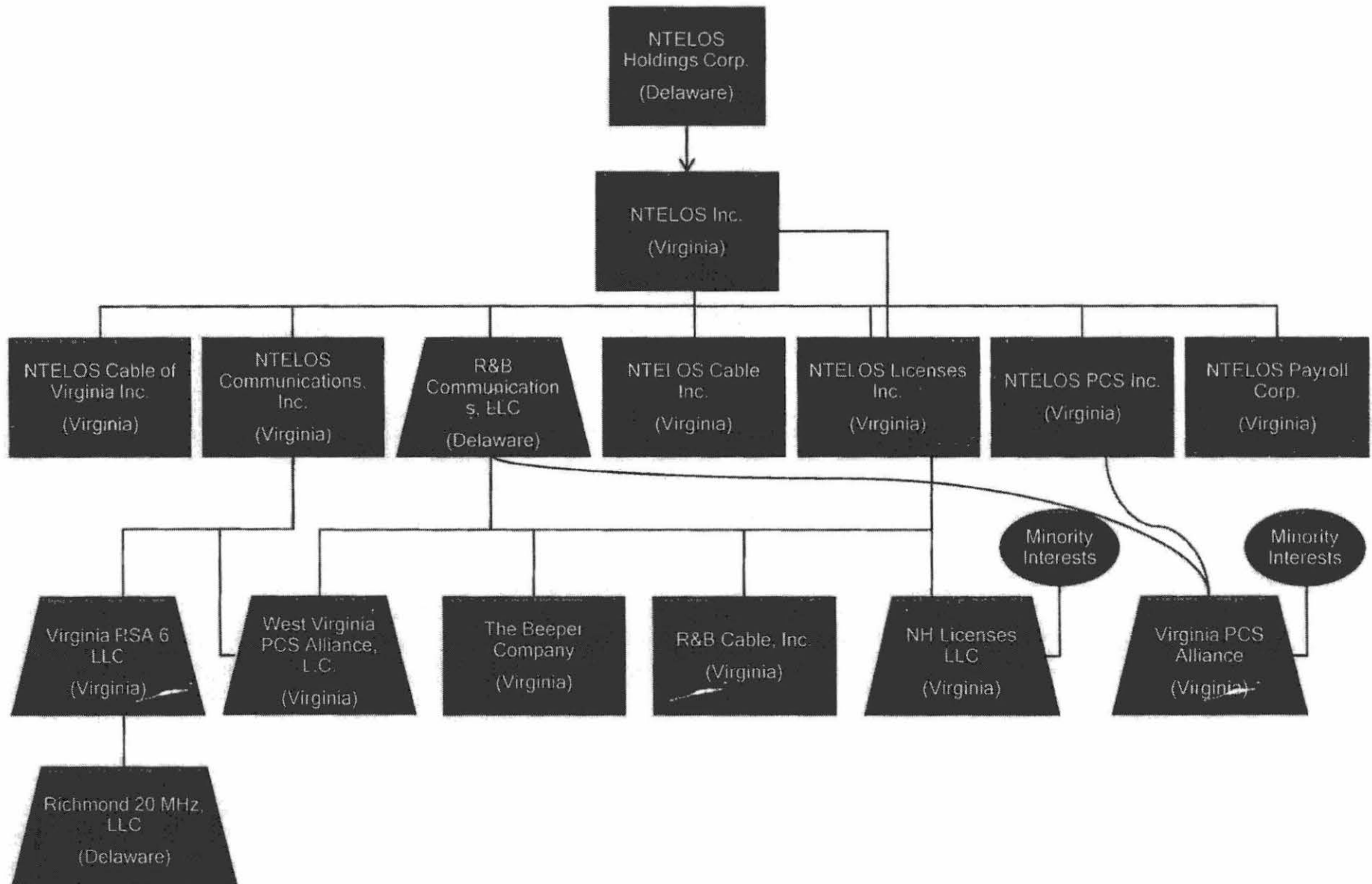


Douglas F. Brent
Counsel to Sprint

Shentel Pre-Close Org Chart



NTELOS Pre-close Org Chart





August 15, 2016

RE: West Virginia PCS Alliance, L.C. Cell Site HT220
311 S Laurel St., Greenup, KY

Dear Sir or Madam:

This letter is to state the need to upgrade the Shentel site HT220 located in Greenup County. It is necessary to replace the existing wood pole with a 150' steel monopole to accommodate the new equipment configuration required to provide LTE service and to improve coverage to the homes south along Rt. 2. HT220 currently provides voice coverage to the town of Greenup. Without the upgrade, customers will experience poor data connectivity and dropped data calls in this area. With the upgrade to this site, customers in Greenup County will be provided with reliable communications on our LTE network.

Sincerely,

 Recoverable Signature

X 

David Mellick
RF Engineer, Shentel
Signed by: Mellick, David

Exhibit C

Construction Plans

GRAHAM M. ANDRES, P.E., P.ENG.

384 Tarragon Trail
Wendell, NC 27603
(919) 661-6351
gandres@tepgroup.net

EDUCATION North Carolina State University, Raleigh, NC
B.S. in Civil Engineering, 05/2002

EXPERIENCE Vice President, 05/2007 - Current

Tower Engineering Professionals, Inc., 326 Tryon Road, Raleigh, NC

- Manage Civil and Survey divisions as well as remote offices
- Client management and business development
- Budgeting, ERP implementation, management development
- Work with others in senior management to define company goals, strategy and assess overall company health
- Work with other Managers in the company help carriers successfully complete large-scale LTE overlay projects.

Civil Division Manager, 05/2002 – 05/2007

Tower Engineering Professionals, Inc., 3703 Junction Blvd, Raleigh, NC

- Performed Structural Analysis of Steel Structures, Design of Foundations, and Foundation Analysis.
- Duties also include Civil Site Design of proposed Telecommunications Facilities and Field Inspections
- Project Management of new cell site builds, including project budgets, site design, zoning meetings, managing subcontractors and other engineers.

Civil Engineering Intern, 08/2000 – 05/2002

Tower Engineering Professionals, Inc., 3703 Junction Blvd, Raleigh, NC

- Trained to perform Structural Analysis, Civil Site Design, & Field Inspections
- Trained in Foundation Analysis and Design

OTHER Licensed Professional Engineer in:

Canadian Provinces:

New Brunswick, Prince Edward Island, Ontario, British Columbia, Saskatchewan, Nova Scotia, Alberta, Manitoba

States:

AL, AR, AZ, CO, CT, FL, GA, IA, ID, IL, IN, KS, KY, LA, MD, ME, MI, MN, MO, MS, MT, NC, ND, NE, NH, OH, OK, OR, PA, RI, SC, SD, TN, TX, UT, VA, WA, WV, WY



DAVID D. McKINNEY
Director of Survey
Professional Land Surveyor

EDUCATION

- 1991 / Graduate National Geospatial Intelligence College/Geodetic Survey Course / U.S.A.C.E.
- 1992 / I.B.M. Government / Business Computer Course
- Fayetteville Technical Community College.
- Continuing Education.

REGISTRATION

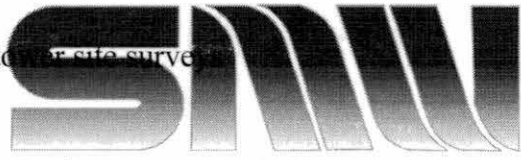
- Registered Professional Surveyor
State of Alabama No. 30350
State of Kentucky No. 3964

Mr. McKinney serves as the Director of Surveying with 25 years of experience and brings a high level of technical expertise to the firm. He is a graduate of the National Geospatial Intelligence College where he was trained in cartography, Geodetic Surveying, G.P.S., and conventional surveying disciplines. Mr. McKinney's experience and knowledge can be offered as a resource to any project team.

RELEVANT PROJECTS INCLUDE:

- Field Surveying and construction stakeout of Roads and Highways
- Layout of large scale buildings and utilities (Honda Plant Lincoln, AL)
- Drafting of Civil Site Plans
- Project Management
- Subdivision Layouts
- Topographic Mapping and Surveying
- Supervision of Field and Office Personnel
- GPS Field Operation, Office Processing and Adjustment
- Quantity Surveys
- ALTA and Boundary Surveys
- Airfield Surveys
- Setting Aerial grids and computation of coordinates
- Construction stakeout and as-built drawings
- NOAA 1-A and 2-C Letters, and Flood Certification Letters
- Plot plans and engineered septic system design

- Telecommunications tower site survey



ENGINEERING GROUP, INC.

TOGETHER PLANNING A BETTER TOMORROW

PROJECT SUMMARY

SITE NAME: GREENUP
SITE I.D.: KY02128
SITE ADDRESS: 311 S LAUREL ST
 GREENUP, KY 41144
JURISDICTION: GREENUP COUNTY
LAND USE: EXISTING TELECOMMUNICATIONS FACILITY
PROPERTY OWNER(S): JACK T. RICE, JERRY R. RICE, JOY RICE
 MARSHALL, RICHARD FLETCHER, LORA HELMS, GAIL MURRAY
APPLICANT: SBA COMMUNICATIONS CORPORATION
 8051 CONGRESS AVENUE
 BOCA RATON, FL 33487-1307
 OFFICE: (561) 226-9332
PARCEL ID: 138-00-00-013.00
ZONING CLASS: UNKNOWN
1-A CERTIFICATION: N 38° 34' 19.354" (NAD '83)
LATITUDE: W 82° 50' 27.671" (NAD '83)
LONGITUDE: 649.3' AMSL (NAVD '88)
GROUND ELEVATION: TELECOMMUNICATIONS FACILITY
OCCUPANCY TYPE: PROPOSED 150' MONOPOLE TOWER
CONSTRUCTION TYPE: FROM CINCINNATI, OH: FOLLOW KY-9 TO
 KY-10 IN LEWIS COUNTY. CONTINUE STRAIGHT INTO KY-10 E. TURN RIGHT
 ONTO US-23 S (SIGNS FOR GREENUP ASHLAND). TURN RIGHT ONTO LAUREL
 ST. SITE WILL BE ON RIGHT NEAR SUNSET CEMETERY RD.
DRIVING DIRECTIONS:

HANDICAPPED REQUIREMENTS
 FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION.
 HANDICAP ACCESS NOT REQUIRED.
PLUMBING REQUIREMENTS
 FACILITY HAS NO PLUMBING.

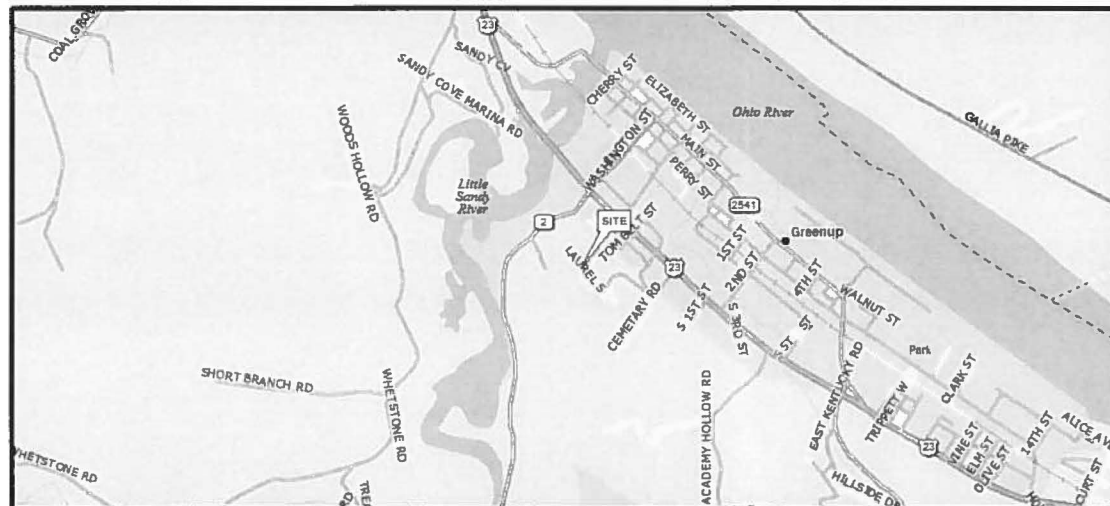
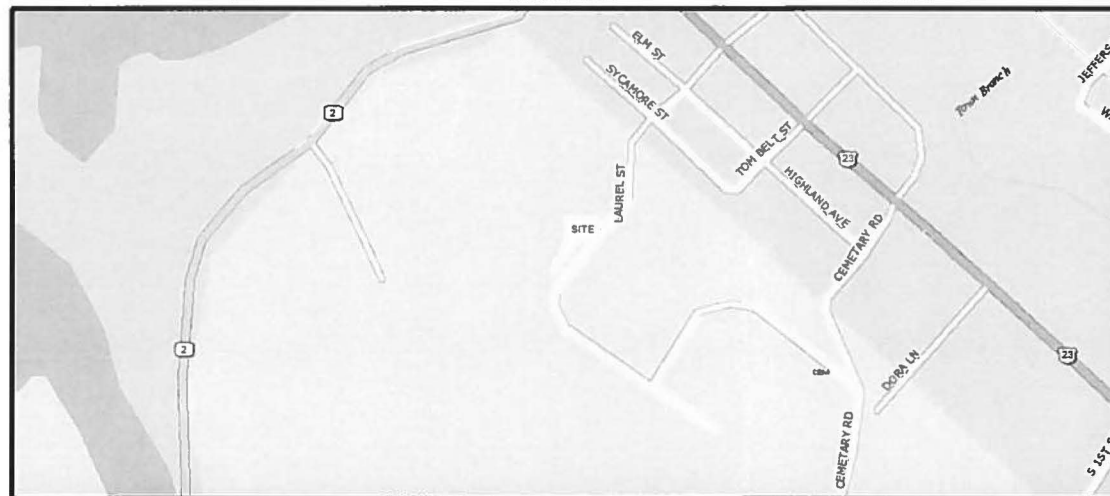
CONSULTING TEAM

ARCHITECTURAL - ENGINEERING FIRM:
 TOWER ENGINEERING PROFESSIONALS, INC.
 326 TRYON ROAD, RALEIGH, NC 27603
 CONTACT: GRAHAM M. ANDRES, P.E.
 PHONE: (919) 661-6351 FAX: (919) 661-6350
SURVEYING FIRM:
 SMW ENGINEERING GROUP, INC
 158 BUSINESS CENTER DR, BIRMINGHAM, AL 35244
 CONTACT: DAVID MCKINNEY
 PHONE: (205) 252-6985
APPLICANT/LESSEE CONTACTS:
 SBA COMMUNICATIONS CORPORATION
 DWAYNE LYERLY - (919) 803-3427 EXT 104
POWER COMPANY: TELCO COMPANY:
 DUKE ENERGY AT&T
 CUSTOMER SERVICE CUSTOMER SERVICE
 PHONE: (740) 547-3000 PHONE: (800) 288-2020
ELECTRICAL ENGINEER:
 TOWER ENGINEERING PROFESSIONALS, INC.
 326 TRYON ROAD, RALEIGH, NC 27603
 CONTACT: GRAHAM M. ANDRES, P.E.
 PHONE: (919) 661-6351 FAX: (919) 661-6350



SITE NAME
GREENUP
SBA SITE I.D.
KY02128
ADDRESS
311 S LAUREL ST
GREENUP, KY 41144
PROJECT TYPE
PROPOSED 150' MONOPOLE TOWER

LOCATION & VICINITY MAPS



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APPROVALS

LANDLORD		DATE
PROPERTY		DATE
CONSTRUCTION		DATE
RSM		DATE
TENANT		DATE
ZONING		DATE



CALL BEFORE YOU
 DIG - DRILL - BLAST
 800-752-6007
 OR
 811

KENTUCKY ONE CALL SYSTEM, INC.

THE UTILITIES SHOWN HEREON ARE FOR THE CONTRACTORS CONVENIENCE ONLY THERE MAY BE OTHER UTILITIES NOT SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

APPLICANT/LESSEE:



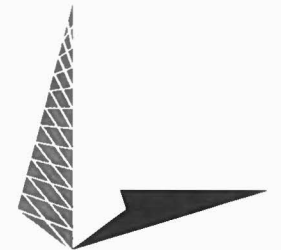
8051 CONGRESS AVENUE
 BOCA RATON, FL 33487
 OFFICE: (561) 226-9332

PROJECT INFORMATION:

GREENUP
(KY02128)

311 S LAUREL ST
 GREENUP, KY 41144
 (GREENUP COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603
 OFFICE: (919) 661-6351
 www.tepgroup.net

SEAL:



5	4	
4	4	
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2		
REV	DATE	ISSUED FOR:

DRAWN BY: JKW CHECKED BY: JAS

SHEET TITLE:
TITLE SHEET

SHEET NUMBER:
T-1
 REVISION:
5
 TEP #: 64594

ABBREVIATIONS:

AB	ANCHOR BOLT	GR	GRADE	SIM	SIMILAR
AC	ASPHALTIC CONCRETE	GYP	GYP SUM	SPECS	SPECIFICATIONS
A/C	AIR CONDITIONING	GFCI	GROUND FAULT CIRCUIT	SS	STAINLESS STEEL
ADJ	ADJUSTABLE		INTERRUPT	STL	STEEL
A.F.F.	ABOVE FINISH FLOOR	GND	GROUND	STOR	STORAGE
ARCH	ARCHITECTURAL	HC	HOLLOW CORE	STRUCT	STRUCTURAL
APPROX	APPROXIMATELY	HDW	HARDWARE	SUSP	SUSPENDED
A.G.L.	ABOVE GRADE LEVEL	HTR	HEATER	SW	SWITCH
A.M.S.L.	ABOVE MEAN SEA LEVEL	HM	HOLLOW METAL	SWBO	SWITCHBOARD
BD	BOARD	HORIZ	HORIZONTAL	THK	THICK
BLDG	BUILDING	HR	HOUR	TI	TENANT IMPROVEMENT
BLKG	BLOCKING	HT	HEIGHT	TMA	TOWER MOUNTED AMPLIFIER
BOT	BOTTOM	HV	HIGH VOLTAGE	TOS	TOP OF SURFACE
BSMT	BASEMENT	ID	INSIDE DIMENSION	TS	TUBE STEEL
BTS	BASE TRANSCEIVER	INS	INSULATION	TYP	TYPICAL
	STATION	INT	INTERIOR	U	UNDERGROUND
C	COURSE(S)	JT	JOINT	UNO	UNLESS NOTED OTHERWISE
CEM	CEMENT	LAM	LAMINATED	VCT	VINYL COMPOSITION TILE
CL	CHAIN LINK	LBS	POUNDS	VERT	VERTICAL
CLG	CEILING	LT	LIGHT	V.I.F.	VERIFY IN FIELD
CLR	CLEAR	LA	LIGHTNING ARRESTOR	VG	VERTICAL GRAIN
COL	COLUMN	LNA	LOW NOISE AMPLIFIER	W/	WITH
CONC	CONCRETE	MFR	MANUFACTURER	WD	WOOD
CONST	CONSTRUCTION	MAT	MATERIAL	WR	WATER RESISTANT
CONT	CONTINUOUS	MAX	MAXIMUM	WT	WEIGHT
CORR	CORRIDOR	MECH	MECHANICAL	XFMR	TRANSFORMER
CO	CONDUIT ONLY	MIN	MINIMUM	⊙	AT
DIA	DIAMETER	MISC	MISCELLANEOUS	[	CHANNEL
DBL	DOUBLE	ML	METAL LATH	⊥	CENTERLINE
DEPT	DEPARTMENT	MO	MASONRY OPENING	∠	ANGLE
DEMO	DEMOLITION	MS	MACHINE SCREW	⊞	PROPERTY LINE
DIM	DIMENSION	MTD	MOUNTED		
DN	DOWN	MTL	METAL		
DR	DOOR	(N)	NEW		
DTL	DETAIL	NIC	NOT IN CONTRACT		
DWG	DRAWING	NO	NUMBER		
(E)	EXISTING	NTS	NOT TO SCALE		
EA	EACH	O	OVERHEAD		
ELEC	ELECTRIC	OA	OVERALL		
ELEV	ELEVATION	O.C.	ON CENTER		
EQUIP	EQUIPMENT	OPNG	OPENING		
EXP	EXPANSION	OPP	OPPOSITE		
EXT	EXTERIOR	PARTN	PARTITION		
FA	FIRE ALARM	PL	PLATE		
FB	FLAT BAR	PLAS	PLASTER		
FF	FINISH FLOOR	PLYWD	PLYWOOD		
FH	FLAT HEAD	POC	POINT OF CONNECTION		
FIN	FINISH(ED)	PROP	PROPERTY		
FLR	FLOOR	PT	PRESSURE TREATED		
FOS	FACE OF STUDS	R	RISER		
FS	FINISH SURFACE	REQD	REQUIRED		
FT	FOOT, FEET	RD	ROOF DRAIN		
FTG	FOOTING	RM	ROOM		
FW	FINISH WALL	RMS	ROOMS		
F.G.	FINISH GRADE	RO	ROUGH OPENING		
FUT	FUTURE	SC	SOLID CORE		
GA	GAUGE	SCHED	SCHEDULE		
GALV	GALVANIZED	SECT	SECTION		
GL	GLASS	SHT	SHEET		

SYMBOLS:

SECTION NUMBER
SHEET NUMBER
BUILDING SECTION REFERENCE

DETAIL NUMBER
SHEET NUMBER
DETAIL REFERENCE

SECTION NUMBER
SHEET NUMBER
DETAIL SECTION REFERENCE

SECTION NUMBER
SHEET NUMBER
ELEVATION VIEW REFERENCE

KEY NOTE REFERENCE

101 DOOR NUMBER

101 AREA AND/OR ROOM NUMBER

A/2 MECHANICAL UNIT

UTILITY POLE

WORK POINT

REVISION OR CONTROL POINT

(REFERENCE POINT)
(ELEVATION) ELEVATION REFERENCE

	MASONRY
	BRICK
	CONCRETE
	EARTH
	STEEL
	GRAVEL
	CENTER LINE
	PROPERTY LINE
	LEASE LINE
	EASEMENT LINE
	RIGHT-OF-WAY
	CHAIN LINK FENCE
	WOOD FENCE
	SILT FENCE
	BELOW GRADE ELECTRIC
	BELOW GRADE TELEPHONE
	OVERHEAD ELECTRIC/TELEPHONE
	OVERHEAD TELEPHONE
	OVERHEAD ELECTRIC
	CONTOUR
	TREE PROTECTION FENCE
	TREE LINE
	TREES, SHRUBS, BUSHES
	SANITARY SEWER LINE
	WATER LINE
	NATURAL GAS LINE

APPLICANT/LESSEE:

SBA

8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:

GRAHAM M. ANDRES
29939
PROFESSIONAL ENGINEER
January 25, 2016

2	01-25-16	CONSTRUCTION
1	01-20-16	PRELIMINARY
0	01-07-16	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ML CHECKED BY: JAS

SHEET TITLE:

**ABBREVIATIONS
& SYMBOLS**

SHEET NUMBER: **N-1**

REVISION: **2**

TEP #: 64594

GENERAL NOTES:

1. ALL REFERENCES MADE TO OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED SBA COMMUNICATIONS OR IT'S DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF KENTUCKY.
3. WORK SHALL BE COMPLETED IN ACCORDANCE WITH TIA/EIA-222-G STRUCTURAL STANDARDS FOR STEEL ANTENNA TOWERS AND ANTENNA SUPPORTING STRUCTURES, ASCE 7-05 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES AND THE KENTUCKY BUILDING CODE, 2013 EDITION.
4. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
5. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND IT'S COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING, GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
7. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
8. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, PROVINCIAL, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE SBA PROJECT MANAGER.
11. BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR/OWNER. CONTRACTOR/OWNER SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
12. THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUBGRADE IN ITS PRESENT STATE. AFTER REWORKING, IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUBGRADES SHALL BE PROOF-ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIAL SHALL BE REWORKED OR REPLACED.
13. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
14. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
15. ALL BUILDING/TOWER DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.
16. ANY BUILDINGS ON THIS SITE ARE INTENDED TO SHELTER EQUIPMENT WHICH WILL ONLY BE PERIODICALLY MAINTAINED, AND ARE NOT INTENDED FOR HUMAN OCCUPANCY.
17. TEMPORARY FACILITIES FOR PROTECTION OF TOOLS AND EQUIPMENT SHALL CONFORM TO LOCAL REGULATIONS AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
18. RENTAL CHARGES, SAFETY, PROTECTION AND MAINTENANCE OF RENTED EQUIPMENT SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
19. THE CONTRACTOR AND ITS SUBCONTRACTORS SHALL CARRY LIABILITY INSURANCE IN THE AMOUNTS AND FORM IN ACCORDANCE WITH GLOBALIVE SPECIFICATIONS. CERTIFICATES DEMONSTRATING PROOF OF COVERAGE SHALL BE PROVIDED TO GLOBALIVE PRIOR TO THE START OF THE WORK ON THE PROJECT.

20. THESE DOCUMENTS DO NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY. SAFETY, CARE OF ADJACENT PROPERTIES, AND COMPLIANCE WITH PROVINCIAL AND FEDERAL REGULATIONS REGARDING SAFETY, SHALL BE THE CONTRACTOR'S RESPONSIBILITY, AND THIS, PER THE INTERNATIONAL CODE - REGULATORS RESPECTING OCCUPATIONAL SAFETY & HEALTH THE SUCCESSFUL CONTRACTOR WILL SUBMIT HIT SAFETY MANUAL AT THE PROJECT SITE.
21. THE CONTRACTOR SHALL CONTACT ALL APPLICABLE UTILITY SERVICES TO VERIFY LOCATIONS OF EXISTING UTILITIES AND REQUIREMENTS FOR NEW UTILITY CONNECTIONS PRIOR TO EXCAVATING.
22. THE CONTRACTOR SHALL MAINTAIN THE JOB CLEAR OF TRASH AND DEBRIS. ALL WASTE MATERIALS SHALL BE REMOVED FROM THE SITE PRIOR TO SUBSTANTIAL COMPLETION AND PRIOR TO FINAL ACCEPTANCE. THE CONTRACTOR SHALL FURNISH ONE 55 GALLON BARREL, AND TRASH BAGS, AND SHALL REMOVE TRASH, DEBRIS, ETC., ON A DAILY BASIS.
23. COSTS FOR BUILDING PERMITS, LANDFILL TAXES, USE TAXES, SALES TAXES AND OTHER CHARGES RELATIVE TO CONSTRUCTION OF THIS PROJECT SHALL BE INCLUDED IN THE CONTRACT PRICE.
24. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH ALL CONDITIONS PRIOR TO SUBMITTING HIS PROPOSAL. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS SHOWN ON THESE DRAWINGS WITH THOSE AT THE SITE. ANY VARIATION WHICH REQUIRES PHYSICAL CHANGE SHALL BE BROUGHT TO THE ATTENTION OF THE SBA PROJECT ENGINEER FOR FACILITIES/CONSTRUCTION.
25. THE CONTRACTOR SHALL GUARANTEE THE WORK PERFORMED ON THE PROJECT BY THE CONTRACTOR AND ANY OR ALL OF THE SUBCONTRACTORS WHO PERFORMED WORK FOR THE CONTRACTOR ON THIS PROJECT. THE GUARANTEE SHALL BE FOR A FULL YEAR FOLLOWING ISSUANCE OF THE FINAL PAYMENT OF HOLDBACK.
26. AWARDED CONTRACTOR WILL BE REQUIRED TO SIGN AND RETURN A COPY OF AN AWARD LETTER FOR SBA'S FILE.
27. CONTRACTOR WILL BE REQUIRED TO PROVIDE PROOF OF LICENSE TO PERFORM WORK IN JURISDICTION AT TIME OF BID AWARD.
28. CONTRACTOR WILL PROVIDE A CONSTRUCTION SCHEDULE PRIOR TO CONSTRUCTION STARTING AND WILL PROVIDE UPDATE/CHANGES (WITH EXPLANATIONS) TO THAT SCHEDULE WHEN/IF ITEMS ARE DELAYED OR PUSHED OUT.
29. CONTRACTOR WILL BE RESPONSIBLE TO PROVIDE SBA PROJECT MANAGERS WITH PHOTOS OF THE MAJOR CONSTRUCTION MILESTONES AS THEY OCCUR.
30. CONTRACTOR WILL BE RESPONSIBLE TO ASSIST IN COORDINATING AND OBTAINING PRIMARY POWER TO THE SITE PRIOR TO TOWER ERECTION BEFORE PROJECT COMPLETION. (ON SITE VISITS WITH UTILITY COMPANY REPRESENTATIVES AS NECESSARY, ETC...)
31. CONTRACTOR SHOULD BE PREPARED FOR RANDOM SBA SAFETY INSPECTIONS AT ALL TIMES.
32. CONTRACTOR IS EXPECTED TO MAINTAIN PROPER WORKING CONDITIONS AND PROCEDURES PER KENTUCKY STANDARDS AT ALL TIMES.
33. CONTRACTOR WILL BE REQUIRED TO OBTAIN THE NECESSARY ELECTRICAL PERMITS AND INSPECTIONS AS REQUIRED BY JURISDICTION.
34. CONTRACTOR IS EXPECTED TO CLOSE-OUT THE JOB SITE AS QUICKLY AS POSSIBLE (OBTAINING A CERTIFICATE OF OCCUPANCY AS REQUIRED BY LOCAL MUNICIPALITY AND GETTING SBA'S REGIONAL SITE MANAGER'S SIGN-OFF/CHECKLIST APPROVAL ON THE SITE).
35. CONTRACTOR WILL PROVIDE A COMPLETED TOWER HEIGHT VERIFICATION FORM AND TAPE DROP WITHIN 24 HOURS OF REACHING OVERALL HEIGHT.
36. CONTRACTOR WILL UTILIZE ALL OF THE SBA PROVIDED DOCUMENTATION INCLUDING BUT NOT LIMITED TO: TOWER CONSTRUCTION ACCEPTANCE CHECKLIST, CONSTRUCTION SCHEDULE, CONSTRUCTION CLOSE-OUT LIST & TOWER HEIGHT VERIFICATION.
37. CONTRACTOR IS RESPONSIBLE FOR CONCRETE COMPRESSION TESTING.
38. CONTRACTOR IS RESPONSIBLE FOR GROUND MEG TESTING AND PROVIDING PROOF OF RESULT.
39. WHEN REQUESTED, PROVIDE 3 COPIES OF FABRICATION AND ERECTION DRAWINGS PRIOR TO FABRICATION. ALLOW UP TO 1 WEEK FOR REVIEW BY CONSULTANT.
40. IN ADDITION TO CONTRACTOR'S QUALITY CONTROL PROGRAM, INDEPENDENT TESTING AND INSPECTION MAY BE PERFORMED BY OWNER OR OWNER'S REPRESENTATIVE.
41. SUBMIT RED-LINES COPY OF CONSTRUCTION DRAWINGS UPON COMPLETION OF CONSTRUCTION HIGHLIGHTING CHANGES IN THE STAMPED AND SIGNED AS-BUILT CONDITION FROM SHOWN ON THE DRAWINGS.
42. CONTRACTOR WILL BE RESPONSIBLE FOR ALL GRADING AND FILL COMPACTION TESTING REQUIRED AS SET FORTH IN THE GEO TECHNOLOGICAL REPORT PROVIDED BY OWNER.

CONCRETE:

1. ALL CONCRETE AND CONCRETE MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF KENTUCKY BUILDING CODE, 2013 EDITION.
2. THE CONTRACTOR SHALL TAKE SAMPLES OF THE CONCRETE POURED UNDER THE CONDITIONS OUTLINED IN THE KENTUCKY BUILDING CODE, 2013 EDITION.
3. ANY FAILURE OF A CONCRETE TEST CYLINDER TO MEET THE SPECIFIED STRENGTH REQUIREMENTS MUST BE REPORTED TO THE DESIGN ENGINEER IMMEDIATELY. CORRECTIVE ACTION MUST BE APPROVED BY THE ENGINEER AND ALL RELATED COSTS SHALL BE AT THE CONTRACTOR'S EXPENSE.

APPLICANT/LESSEE:



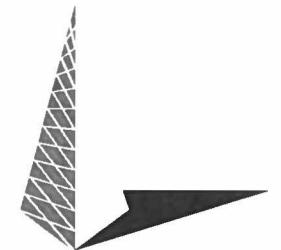
8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

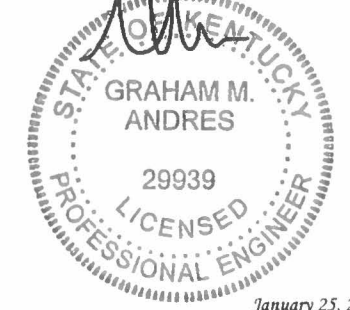
311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



2	01-25-16	CONSTRUCTION
1	01-20-16	PRELIMINARY
0	01-07-16	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ML CHECKED BY: JAS

SHEET TITLE:

**GENERAL
NOTES I**

SHEET NUMBER: N-2	REVISION: 2 TEP #: 64594
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CONCRETE (CONTINUED):

- THE MINIMUM 28-DAY COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE A MINIMUM OF 30 MPA, EXCEPT AS NOTED OR DIRECTED IN THE SOIL REPORT. THE CONCRETE, WHEN POURED, SHALL CONTAIN 7% AIR ENTRAINMENT WITH AN ALLOWABLE VARIATION OF +2%.
- CONTRACTOR MUST TAKE SLUMP TEST AT LEAST ONCE FROM EACH TRANSIT MIXER AFTER A MINIMUM OF 5% CONCRETE LOAD HAD BEEN DISCHARGED. SLUMP, UNLESS NOTED OTHERWISE ON THE DRAWINGS, SHALL BE 75 MM.
- MIXED CONCRETE ON SITE (REMOTE AREAS) WITH THE CORRECT PROPORTION OF CEMENT, SAND, GRAVEL, AND AIR-ENTRAINING AGENT ALREADY ADDED, THE DRY PREMIX IS TO BE MIXED IN A CONCRETE BATCHER IN STRICT ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- BEFORE POURING CONCRETE, THE TRANSPORTING EQUIPMENT AND FORMS SHALL BE CLEANED AND ALL DEBRIS AND ICE SHALL BE REMOVED FROM PLACES TO BE OCCUPIED BY THE CONCRETE. ANY WATER THAT HAS ACCUMALATED IN THE FORMS SHALL BE REMOVED.
- ALL CONCRETE SHALL BE VIBRATED AND WORKED AROUND THE REINFORCEMENTS, EMBEDDED FIXTURES AND INTO THE CORNERS OF THE FORMS. ANY EXCESS WATER THAT ACCUMALATES WHILE THE CONCRETE IS BEING POURED SHALL BE REMOVED.
- THE DESIGN ENGINEER SHALL RECEIVE A MINIMUM OF 24 HOURS NOTICE OF EVERY POUR.
- THE CONCRETE IN FOUNDATIONS MUST BE POURED IN CONTINOUS POURS BETWEEN CONSTRUCTION JOINTS. NO CONSTRUCTION JOINTS OTHER THAN THOSE SHOWN ON SITE SPECIFIC DRAWINGS WILL BE PERMITTED. THE CONTRACTOR SHALL PROVIDE EFFICIENT EQUIPMENT TO COMPLETE THE POURING OF EACH SECTION IN ONE CONTINOUS POUR.
- ALL FRAMEWORK SHALL BE BUILT IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE SHALL BE THOROUGHLY BRACED AND PLUMBED SO THAT THE FINISHED CONCRETE WILL CONFORM TO THE SHAPES, LINES, GRADES, AND DIMENSIONS INDICATED ON THE SITE DRAWINGS.
- FORMS AND SHORING SHALL NOT BE REMOVED UNTIL THE CONCRETE IS ADEQUATELY SET. THEIR REMOVAL SHALL BE DONE IN SUCH A MANNER AS TO ENSURE THE COMPLETE SAFETY OF THE STRUCTURE.
- FORMS WHICH SUPPORT THE WEIGHT OF THE CONCRETE, OR OF SUPERIMPOSED LOADS, SHALL NOT BE REMOVED UNTIL THE CONCRETE IS STRONG ENOUGH TO CARRY ITS OWN WEIGHT, AND SUCH SUPERIMPOSED LOADS AS MAY BE PLACED UPON IT.
- THE CONCRETE SHALL BE MAINTAINED IN A MOIST CONDITION FOR AT LEAST 5 DAYS AFTER IT HAS BEEN POURED.
- ALL SURFACES WHICH ARE NOT PROTECTED BY FORMS OR A SEALED WATERPROOF COATING SHALL BE KEPT MOIST BY CONTINOUS SPRINKLING, OR OTHER MEANS SUCH AS COVERING WITH MOIST SAND, SAWDUST, OR BURLAP.
- WHERE NECESSARY, THE CONCRETE SHALL BE PROTECTED AGAINST THE WEATHER BY A FRAMED HOUSING, TARPAULINS, OR OTHER SUITABLE COVERING.

REINFORCING STEEL (REBAR):

- REINFORCING STEEL SHALL MEET CODE AND BE PLACED ACCORDING TO THE APPLICABLE DRAWINGS. THE MINIMUM THICKNESS OF CONCRETE OVER THE STEEL SHALL BE AT LEAST 3".
- ALL REINFORCEMENTS THAT ARE REQUIRED FOR A DAYS POUR ON CONCRETE SHALL BE SECURELY FIXED IN PLACE IN SUFFICIENT TIME TO PERMIT INSPECTION BEFORE CONCRETING BEGINS.
- THE DESIGN ENGINEER SHALL BE GIVEN 24 HOURS NOTICE BEFORE THE CONCRETE IS TO BE POURED. FAILURE TO COMPLY MAY NECESSITATE, BUT NOT BE LIMITED TO, THE REMOVAL OF THE POURED CONCRETE AT THE CONTRACTOR'S EXPENSE.

GROUTING:

- WHERE GROUT IS INDICATED ON THE DRAWINGS UNDER STRUCTURAL BASE PLATES, THIS SHALL BE A NON-SHRINK, NON-FERROUS TYPE. METHODS OF MIXING AND PLACING MUST BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

COLD WEATHER CONCRETING:

- THE CONTRACTOR SHALL PROVIDE AND HAVE ON THE SITE READY FOR USE, ADEQUATE EQUIPMENT FOR HEATING CONCRETE MATERIALS AND PROTECTING FRESH CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER CONDITIONS, ACCORDING TO THE INTERNATIONAL BUILDING CODE, 2012 EDITION.
- ALL CONCRETE MATERIALS, REBAR, FORMS, FILLERS, AND THE EARTH WITH WHICH THE CONCRETE IS TO COME INTO CONTACT WITH, SHALL BE FREE FROM FROST AND ICE.
- WHENEVER THE SURROUNDING TEMPERATURE IS BELOW 39°F, ALL CONCRETE POURED IN THE FORMS SHALL HAVE A TEMPERATURE OF 68°F FOR 4 DAYS.
- THE HOUSING, COVERING, OR OTHER PROTECTION USED FOR THE CURING SHALL REMAIN IN PLACE AND INTACT FOR AT LEAST 24 HOURS AFTER THE ARTIFICIAL HEATING IS DISCONTINUED.

- SALT, CALCIUM CHLORIDE, OR OTHER CHEMICALS SHALL NOT BE USED IN THE CONCRETE MIX TO PREVENT THE WATER CONTENT FROM FREEZING.

UTILITIES:

- CONTRACTOR SHALL CONTACT A SUBSURFACE UTILITY LOCATOR FOR LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. LOCATION OF EXISTING SEWER, WATER LINES, GAS LINES, CONDUITS OR OTHER STRUCTURES ACROSS, UNDERNEATH, OR OTHERWISE ALONG THE LINE OF PROPOSED WORK ARE NOT NECESSARILY SHOWN ON THE PLANS, AND IF SHOWN ARE ONLY APPROXIMATELY CORRECT. CONTRACTOR ASSUMES SOLE RESPONSIBILITY FOR VERIFYING LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES (INCLUDING TEST PITS BY HAND IF NECESSARY) IN AREAS OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF LOCATION OF ELEVATION IS DIFFERENT FROM THAT SHOWN ON THE PLANS, OR IF THERE APPEARS TO BE A CONFLICT.
- CONTRACTOR SHALL COORDINATE ALL UTILITY CONNECTIONS WITH APPROPRIATE UTILITY OWNERS AND CONSTRUCTION MANAGER.
- DAMAGE BY THE CONTRACTOR TO UTILITIES OR PROPERTY OF OTHERS, INCLUDING EXISTING PAVEMENT AND OTHER SURFACES DISTURBED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPAIRED TO PRE-CONSTRUCTION CONDITIONS BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CLIENT. FOR GRASSES AREAS, SEED AND MULCH SHALL BE ACCEPTABLE.
- THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE REQUIREMENTS FOR AND LIMITS OF OVERHEAD AND/OR UNDERGROUND ELECTRICAL SERVICE.
- THE CONTRACTOR SHALL COORDINATE THE LOCATION OF NEW UNDERGROUND TELEPHONE SERVICE WITH THE TELEPHONE UTILITY AND THE OWNER'S REQUIREMENTS.
- ALL UNDERGROUND UTILITIES SHALL BE INSTALLED AND TESTED SATISFACTORY PRIOR TO COMMENCING ANY PAVING OPERATIONS WHERE SUCH UTILITIES ARE WITHIN THE LIMITS OF PAVEMENT.

GRADING:

- THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC...) ALL MATERIAL NOT SUITABLE FOR SUB GRADE IN ITS PRESENT STATE. IF THE MATERIAL, AFTER REWORKING, REMAINS UNSUITABLE THEN THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL AT HIS EXPENSE. ALL SUB GRADES SHALL BE PROOF ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING. ANY SOFT MATERIAL SHALL BE REWORKED OR REPLACED.
- THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL DITCHES, PIPES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTABLE BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURES IN OPERABLE CONDITION.
- ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE (1) YEAR FROM DATE OF ACCEPTANCE.

GROUNDING:

- CONTRACTOR SHALL VERIFY THAT GROUNDING ELECTRODES SHALL BE CONNECTED IN A RING USING #2 SOLID TINNED COPPER WIRE. THE TOP OF THE GROUND RODS AND THE RING CONDUCTOR SHALL BE 2 FEET BELOW FINISHED GRADE. GROUNDING ELECTRODES SHALL BE DRIVEN ON 15'-0" CENTERS (PROVIDE AND INSTALL AS REQUIRED PER TYPICAL GROUNDING PLAN ON SHEET E-3).
- BONDING OF THE GROUNDING CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER CSA.
- GROUND RING CONNECTION CONDUCTORS SHALL BE OF EQUAL LENGTH, MATERIAL, AND BONDING TECHNIQUE.
- CONTRACTOR SHALL ENSURE GROUND RING IS WITHIN 12 TO 36 INCHES OF THE EQUIPMENT PAD. PROVIDE AND INSTALL GROUNDING CONNECTIONS SHOWN IN DETAILS AS NEEDED PER EXISTING SITE GROUNDING SYSTEM. CONTRACTOR SHALL VERIFY ALL EXISTING SITE GROUNDING CONDITIONS BEFORE STARTING WORK OR PURCHASING EQUIPMENT.
- BOND CIGBE TO EXTERNAL GROUND RING WITH 2 RUNS OF #2 SOLID TINNED COPPER CONDUCTOR IN PVC. CONNECT BAR END WITH 2 HOLE LUG, AND "CADWELD" THE OTHER END TO THE EXTERNAL GROUND ROD.
- THE PREFERRED LOCATION FOR COAX GROUNDING IS AT THE BASE OF THE TOWER PRIOR TO THE COAX BEND. BONDING IS SHOWN ON THE ICE BRIDGE DUE TO DIFFICULTY WITH WELDING OR ATTACHING TO TOWER LEGS. CONTRACTOR SHALL ADVISE CONSTRUCTION MANAGER PRIOR TO PLACING CIGBE ON ICE BRIDGE IF MOUNTING TO TOWER LEG IS POSSIBLE.
- CONTRACTOR SHALL VERIFY EXISTING GROUNDING BOND TO THE FENCE POST OR EXTERNAL GROUND RING IN AT (2) PLACES. PROVIDE AND INSTALL GROUNDING CONNECTIONS AS REQUIRED TO MEET THESE CONDITIONS.

APPLICANT/LESSEE:



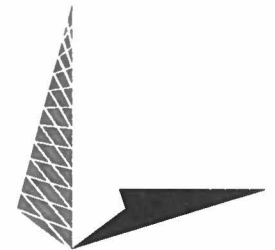
8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



2	01-25-16	CONSTRUCTION
1	01-20-16	PRELIMINARY
0	01-07-16	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ML CHECKED BY: JAS

SHEET TITLE:

**GENERAL
NOTES II**

SHEET NUMBER: N-3	REVISION: 2 TEP #: 64594
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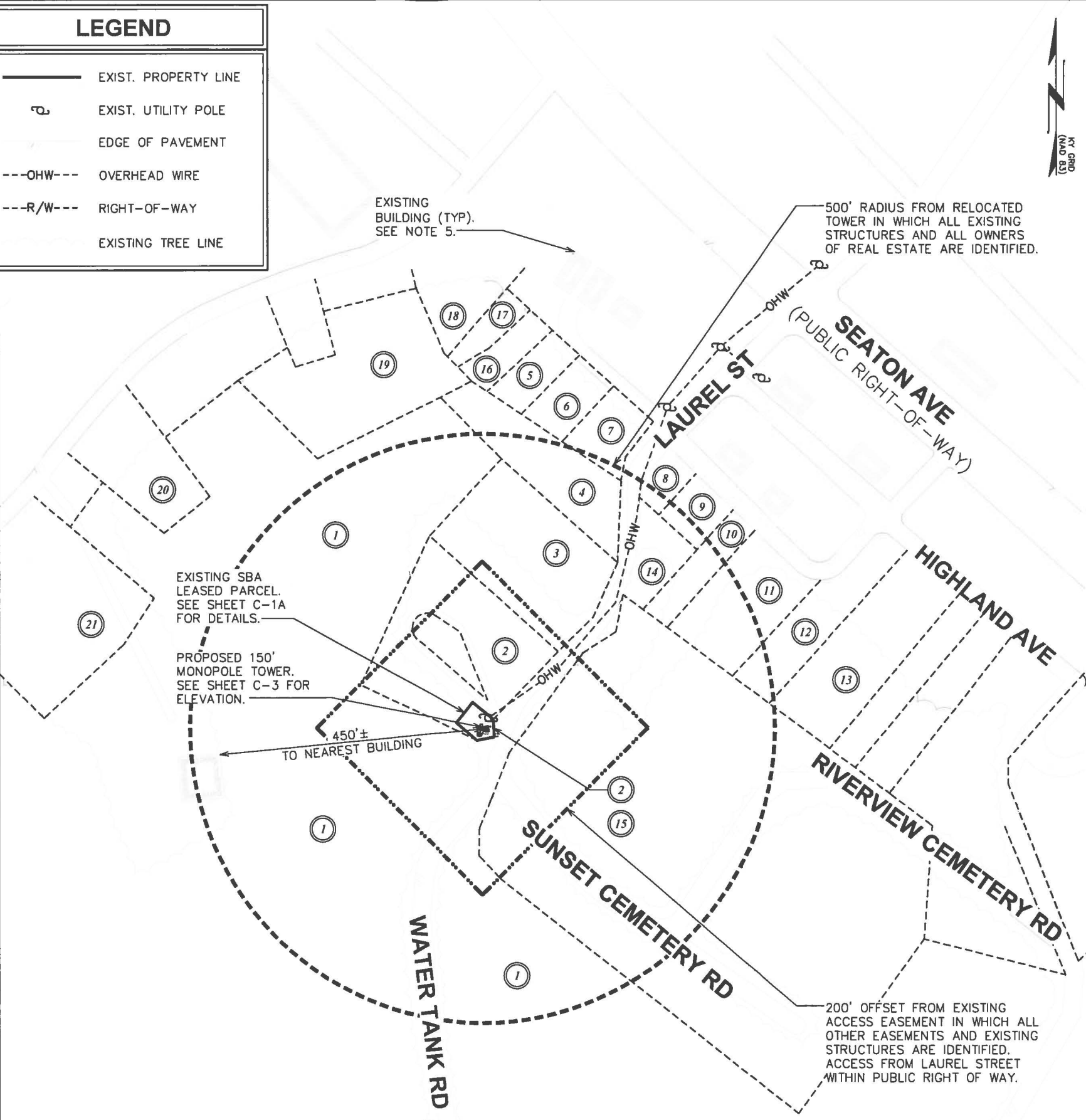
NOTES:

1. THE BASIS OF THE MERIDIANS AND COORDINATES FOR THIS PLAT IS THE KENTUCKY STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (KYSPCS NAD 83), BASED ON DIFFERENTIAL GPS OBSERVATIONS PERFORMED ON NOVEMBER 17, 2015.
2. VERTICAL INFORMATION SHOWN, BASED ON THE NORTH AMERICAN VERTICAL DATUM OF NAVD 1988 IN FEET.
3. ALL DISTANCES ARE GROUND UNLESS OTHERWISE NOTED.
4. THE TOWER IS LOCATED IN ZONE "X," AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN ACCORDING TO FEMA COMMUNITY PANEL #21089C0179D, DATED SEPTEMBER 26, 2014.
5. BUILDINGS, STREETS, AND EXISTING TREE LINES SHOWN BELOW TAKEN FROM AERIAL PHOTOGRAPHS BY GOOGLE EARTH.
6. PROPERTY LINE INFORMATION TAKEN FROM MAPS PROVIDED BY GREENUP COUNTY.

LEGEND

- EXIST. PROPERTY LINE
- ⊕ EXIST. UTILITY POLE
- EDGE OF PAVEMENT
- OHW--- OVERHEAD WIRE
- R/W--- RIGHT-OF-WAY
- EXISTING TREE LINE

PROPERTY INFORMATION				
NO.	PARCEL ID #	N/F PROPERTY OWNER	DEED BOOK	PAGE
1	138-00-00-012	PAUL & FRANCINE WORTHINGTON	533	506
2	138-00-00-013	JACK T. RICE, JERRY R. RICE, JOY RICE MARSHALL, ET AL.	48	329
3	138-00-00-014	SUNSET CEMETERY	74	147
4	138-00-00-015	STONE, DOROTHY	-	-
5	138-40-02-026	QUALLS, DANA	498	501
6	138-40-02-025	MARSHALL, HOBART E & ANDREA WOLFE	604	595
7	138-40-02-024	CRAFT PALAMA	593	411
8	138-40-02-021	NO INFORMATION AVAILABLE	-	-
9	138-40-02-020	CRAFT PALAMA	-	-
10	138-40-02-019	BREWER, TAMMY LYNN	536	094
11	138-40-02-018	CARTER, VIOLET	532	606
12	148-20-03-008	FELTY, JARVEY E & RICCA	-	-
13	148-20-03-007	FELTY, RICCA JANE	595	105
14	138-40-02-022	CRUMP, MAUDE	-	-
15	138-00-00-011	NO INFORMATION AVAILABLE	-	-
16	138-40-02-027	GORDON, GEORGE JR & LOUISE	-	-
17	138-40-02-028	ANDERSON, HOBART & RANDY	-	-
18	138-40-02-029	COFFEE, GLEN ROY	-	-
19	138-00-00-016	LAMBERT, CLYDE & JOSEPHINE	-	-
20	138-40-02-035	WORTHINGTON, GLEN	-	-
21	138-40-02-034	DOTSON, TRACIE HOWELL	-	-



APPLICANT/LESSEE:

SBA

8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
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SEAL:

GRAHAM M. ANDRES
29939
LICENSED PROFESSIONAL ENGINEER
September 14, 2016

REV	DATE	ISSUED FOR:
5	09-14-16	CONSTRUCTION
4	05-24-16	CONSTRUCTION
3	02-01-16	CONSTRUCTION
2	01-25-16	CONSTRUCTION

DRAWN BY: JKW CHECKED BY: JAS

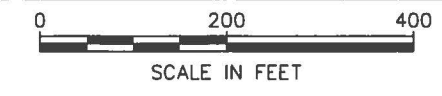
SHEET TITLE:

SITE PLAN

SHEET NUMBER: **C-1** REVISION: **5**

TEP #: 64594

SITE PLAN
SCALE: 1" = 200'



NOTES:

1. THE BASIS OF THE MERIDIANS AND COORDINATES FOR THIS PLAT IS THE KENTUCKY STATE PLANE COORDINATE SYSTEM, NORTH AMERICAN DATUM 1983 (KYSPCS NAD 83), BASED ON DIFFERENTIAL GPS OBSERVATIONS PERFORMED ON NOVEMBER 17, 2015.
2. VERTICAL INFORMATION SHOWN, BASED ON THE NORTH AMERICAN VERTICAL DATUM OF NAVD 1988 IN FEET.
3. ALL DISTANCES ARE GROUND UNLESS OTHERWISE NOTED.
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5. PROPERTY LINE INFORMATION TAKEN FROM MAPS PROVIDED BY GREENUP COUNTY.

N/F
PARCEL ID# 138-00-00-012.00
 WORTHINGTON PAUL E JR & FRANCINE M
 DB 533 PG 506

N/F
PARCEL ID# 138-00-00-013.00
 JACK T RICE, JERRY R. RICE, JOY
 RICE MARSHALL, RICHARD FLETCHER,
 LORA HELMS, GAIL MURRAY
 DB 48 PG 329

N/F
PARCEL ID# 138-00-00-014.00
 SUNSET CEMETERY
 DB 74 PG 147

N/F
PARCEL ID# 138-00-00-013.00
 JACK T RICE, JERRY R. RICE, JOY
 RICE MARSHALL, RICHARD FLETCHER,
 LORA HELMS, GAIL MURRAY
 DB 48 PG 329

LEGEND

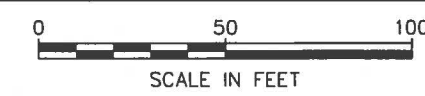
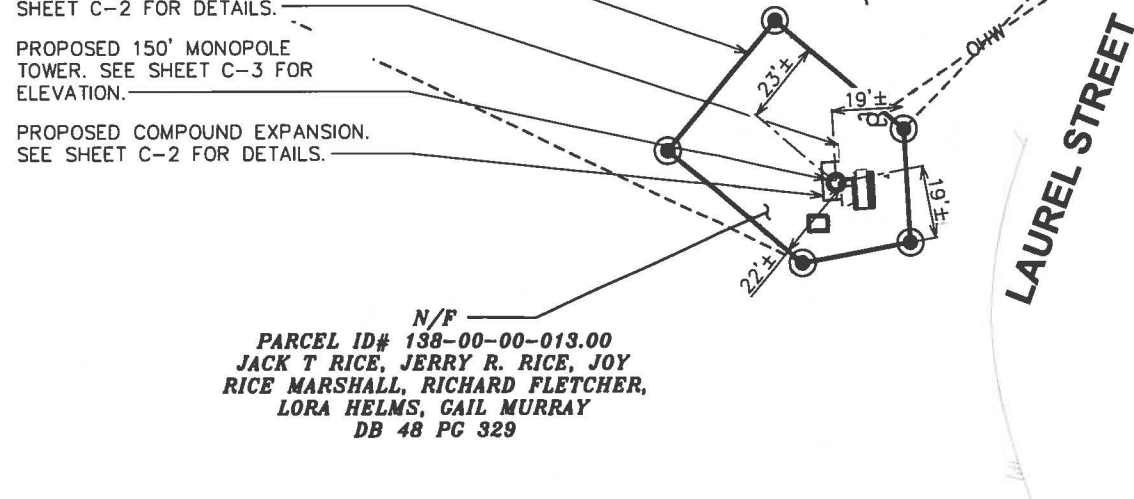
- EXIST. PROPERTY LINE
- ⊕ EXIST. UTILITY POLE
- Ⓛ EXIST. TELCO PEDESTAL
- PROPERTY CORNER
- - - EXIST. CONTOUR LINE
- EDGE OF PAVEMENT
- - - OHW - - - OVERHEAD WIRE
- - - R/W - - - RIGHT-OF-WAY
- X - CHAIN LINK FENCE
- EXISTING TREE LINE

EXISTING LEASED PARCEL

EXISTING FENCED COMPOUND. SEE SHEET C-2 FOR DETAILS.

PROPOSED 150' MONOPOLE TOWER. SEE SHEET C-3 FOR ELEVATION.

PROPOSED COMPOUND EXPANSION. SEE SHEET C-2 FOR DETAILS.



APPLICANT/LESSEE:

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PROJECT INFORMATION:

**GREENUP
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311 S LAUREL ST
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PLANS PREPARED BY:

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5	09-14-16	CONSTRUCTION
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3	02-01-16	CONSTRUCTION
2	01-25-16	CONSTRUCTION

DRAWN BY: JKW CHECKED BY: JAS

SHEET TITLE:

SITE LAYOUT

SHEET NUMBER: **C-1A** REVISION: **5**

TEP #: 64594

SITE PLAN
 SCALE: 1" = 50'

NOTE:

CONTRACTOR TO VERIFY THAT EXISTING GRAVEL IS SUFFICIENT FOR COMPOUND EXPANSION. ADD #57 STONE TO CREATE A DEPTH OF 4" ACROSS COMPOUND EXPANSION WHERE THERE IS NO GRAVEL OR GRAVEL IS SPARSE.

N/F
PARCEL ID# 138-00-00-013.00
JACK T RICE, JERRY R. RICE, JOY RICE MARSHALL, RICHARD FLETCHER, LORA HELMS, GAIL MURRAY
DB 48 PG 329

PROPOSED CHAINLINK FENCE EXTENSION. SEE SHEET C-7 FOR DETAILS.

PROPOSED 150' MONOPOLE TOWER TO REPLACE EXISTING WOOD TOWER. SEE SHEET C-3 FOR DETAILS.

PROPOSED 4" # 57 STONE ABOVE GEOTEXTILE FABRIC INSIDE COMPOUND AND EXTENDING 12" OUTSIDE FENCE. SEE NOTE.

PROPOSED 5'x4' STONE PAD D50=6" DEPTH = 18" SEE SHEET C-5 FOR DETAILS.

- EXISTING LEASE AREA
- EXISTING FENCE SECTION TO BE REMOVED
- EXISTING 90' WOOD TOWER TO BE REMOVED
- EXISTING FENCED COMPOUND
- PROPOSED 2' WIDE ICE-BRIDGE. SEE SHEET C-6 FOR DETAILS.
- EXISTING 4' WIDE ACCESS GATE

- EXISTING COVERED CONCRETE PAD WITH EQUIPMENT
- EXISTING ACCESS ROAD
- EXISTING 12"Ø PLASTIC PIPE

APPLICANT/LESSEE:



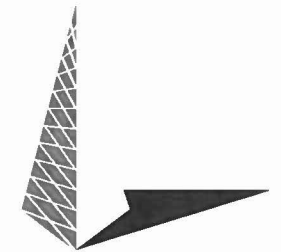
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PROJECT INFORMATION:

GREENUP (KY02128)

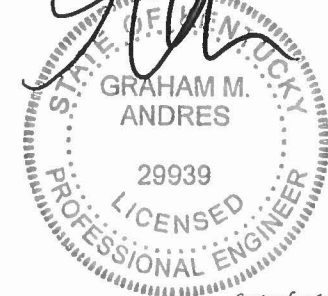
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September 14, 2016

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REV	DATE	ISSUED FOR:

DRAWN BY: JKW CHECKED BY: JAS

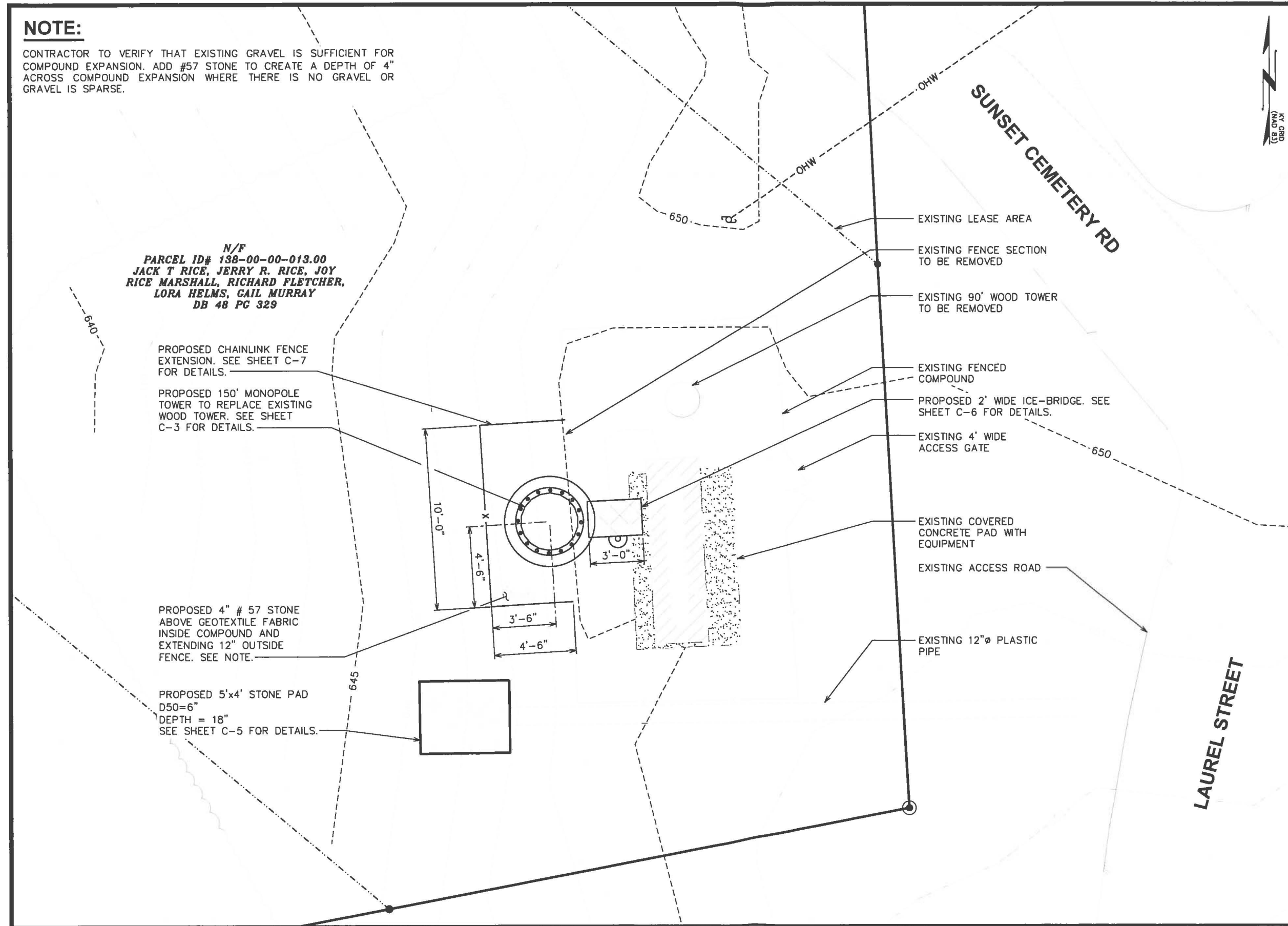
SHEET TITLE:

COMPOUND DETAIL

SHEET NUMBER: C-2	REVISION: 5 TEP #: 64594
-----------------------------	---------------------------------------

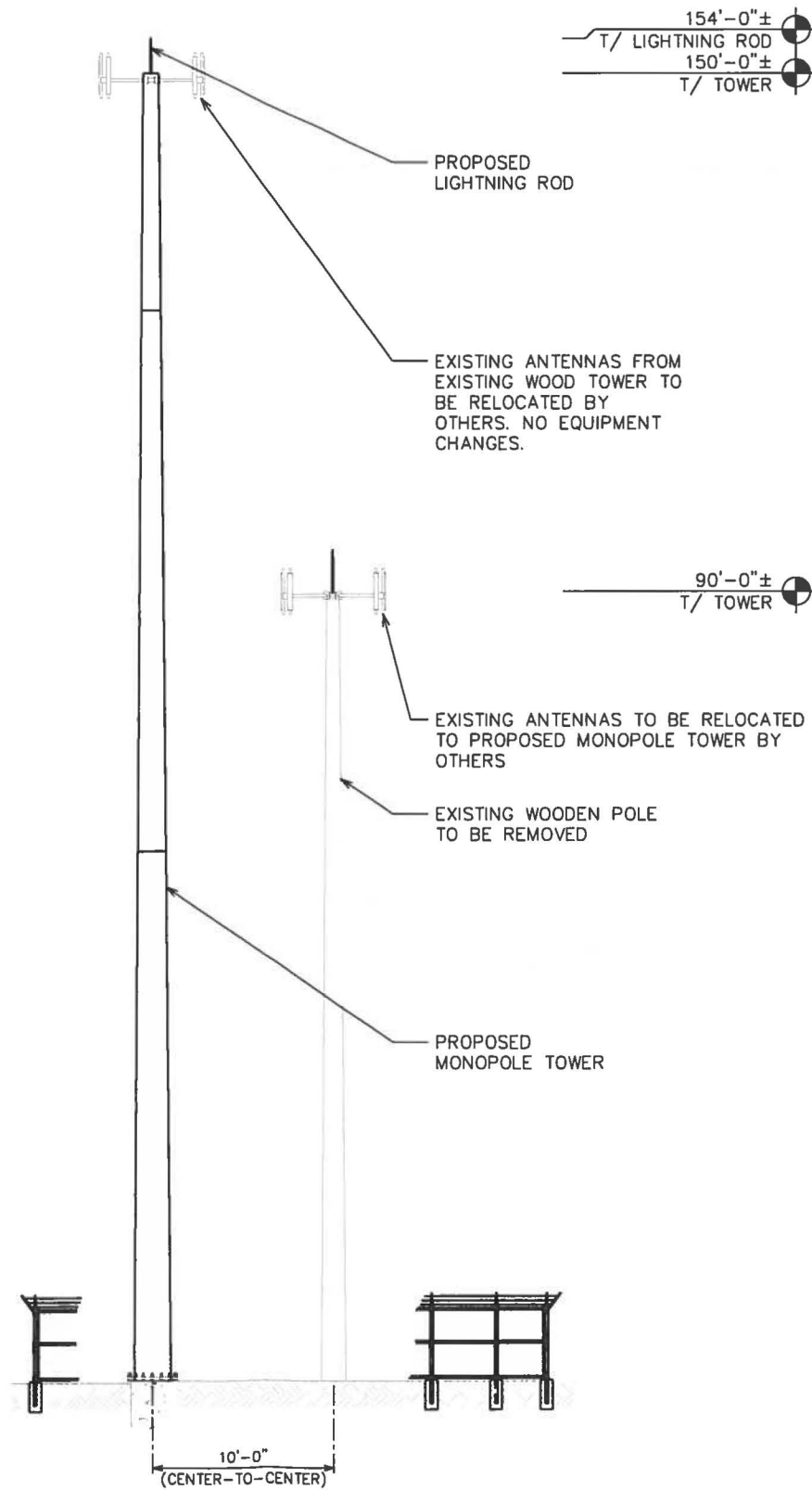
COMPOUND DETAIL

SCALE: 3/16" = 1'-0"



TOWER NOTES:

1. TOWER SHALL BE CONSTRUCTED OF GALVANIZED STEEL OR PAINTED PER APPLICABLE STANDARDS OF THE FAA OR OTHER APPLICABLE FEDERAL OR STATE POLICY.
2. A SINGLE SIGN, 2 FEET SQUARE, IN A VISIBLE LOCATION SHALL BE REQUIRED WITH NAME AND EMERGENCY TELEPHONE NUMBER OF THE TOWER OWNER AND ALL COMPANIES OPERATING ON THE TOWER. NO ADVERTISING SHALL BE ATTACHED TO THE TOWER.
3. TOWER ELEVATION IS FOR SCHEMATIC PURPOSES ONLY. TEP DOES NOT CONFIRM EXISTING SITE CONDITIONS INCLUDING, BUT NOT LIMITED TO, ANTENNA HEIGHTS, ANTENNA AZIMUTHS AND MOUNT CONFIGURATIONS.
4. PROPOSED CABLING TO BE ROUTED INSIDE TOWER USING HOISTING GRIPS.

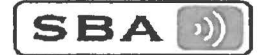


0'-0"± (REFERENCE)
T/ BASEPLATE

10'-0"
(CENTER-TO-CENTER)



APPLICANT/LESSEE:



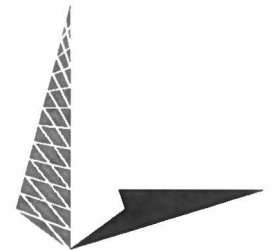
8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

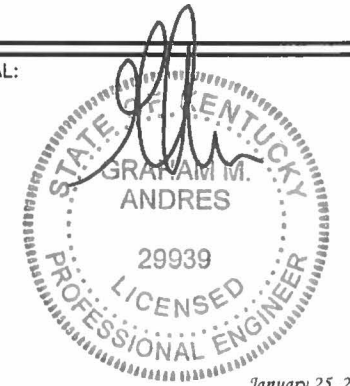
PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS

326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



REV	DATE	ISSUED FOR:
2	01-25-16	CONSTRUCTION
1	01-20-16	PRELIMINARY
0	01-07-16	PRELIMINARY

DRAWN BY: ML CHECKED BY: JAS

SHEET TITLE:

**TOWER
ELEVATION**

SHEET NUMBER: C-3	REVISION: 2 TEP #: 64594
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TOWER ELEVATION

SCALE: 1" = 20'

GRADING NOTES:

1. CONTRACTOR TO ENSURE EXISTING GRADE PROVIDES POSITIVE DRAINAGE ACROSS COMPOUND.
2. CONTRACTOR SHALL APPLY HYDRAMX HYDRAULIC EROSION CONTROL (OR APPROVED EQUIVALENT) ON ALL FILL SLOPES AT A RATE OF 4000 LB/ACRE. SEE HYDRAMAX INSTALLATION GUIDE IN APPENDIX FOR INSTALLATION DETAILS.

APPLICANT/LESSEE:



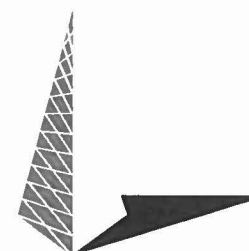
8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

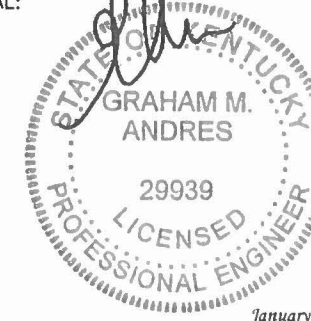
311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

PLANS PREPARED BY:



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326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



January 25, 2016

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1	01-20-16	PRELIMINARY
0	01-07-16	PRELIMINARY

DRAWN BY: ML CHECKED BY: JAS

SHEET TITLE:

**GRADING
PLAN**

SHEET NUMBER:

C-4

REVISION:

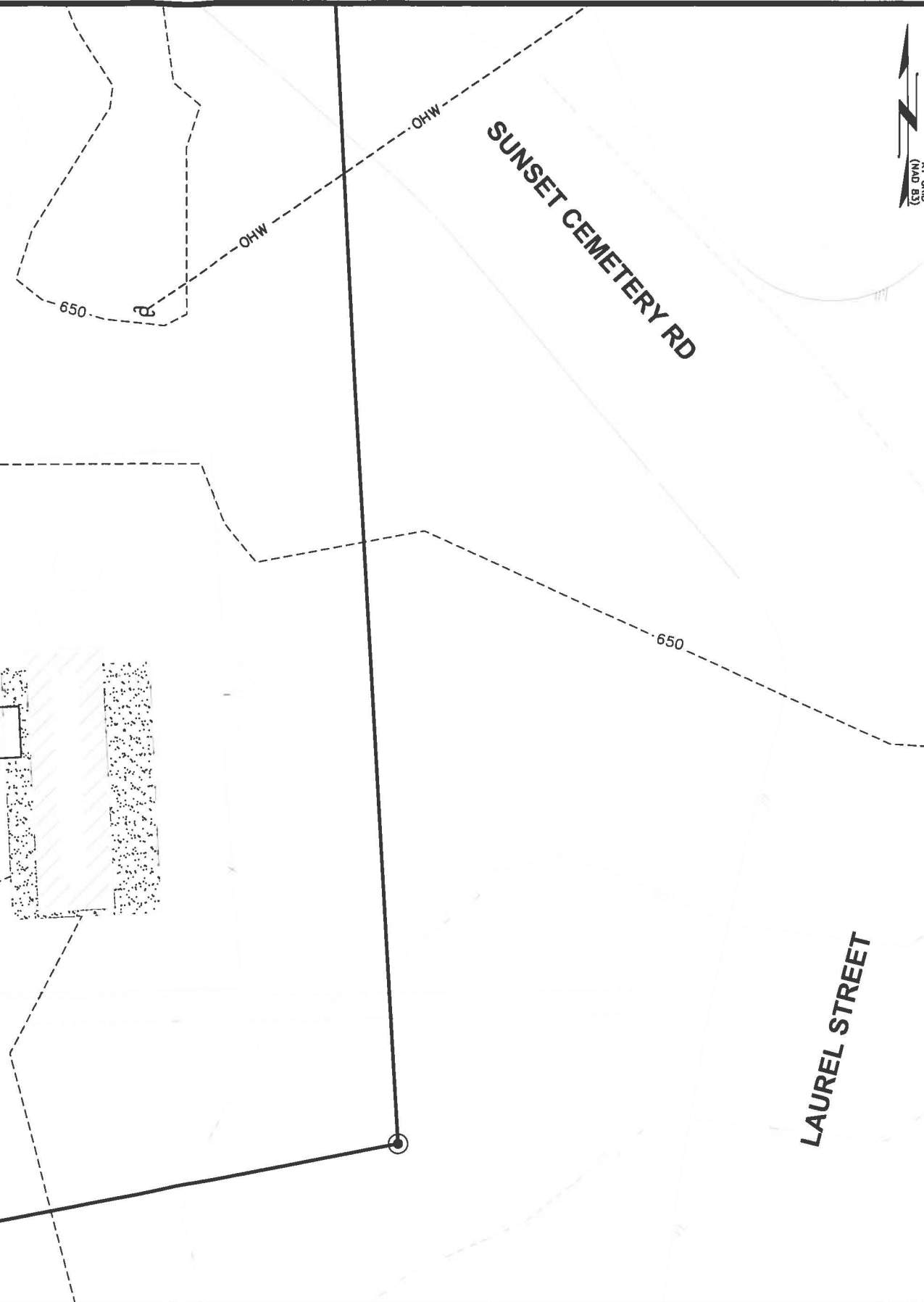
2

TEP #: 64594

LEGEND	
SILT FENCE	

GRADING PLAN

SCALE: 3/16" = 1'-0"



PROPOSED SILT FENCE OUTLET.
SEE SHEET C-5 FOR DETAILS.

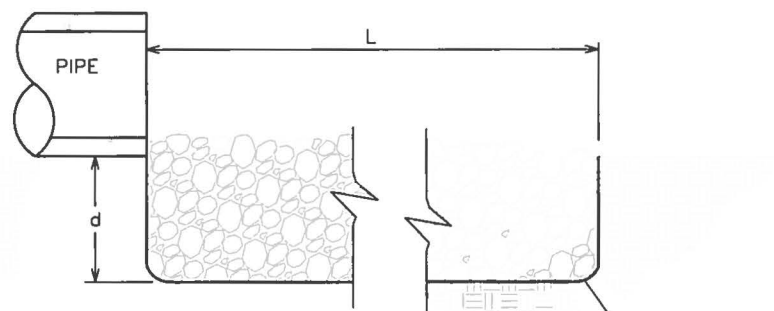
PROPOSED SILT FENCE. SEE
SHEET C-5 FOR DETAILS.

PROPOSED 5'x4' STONE PAD
D50=6"
DEPTH = 18"
SEE SHEET C-5 FOR DETAILS.



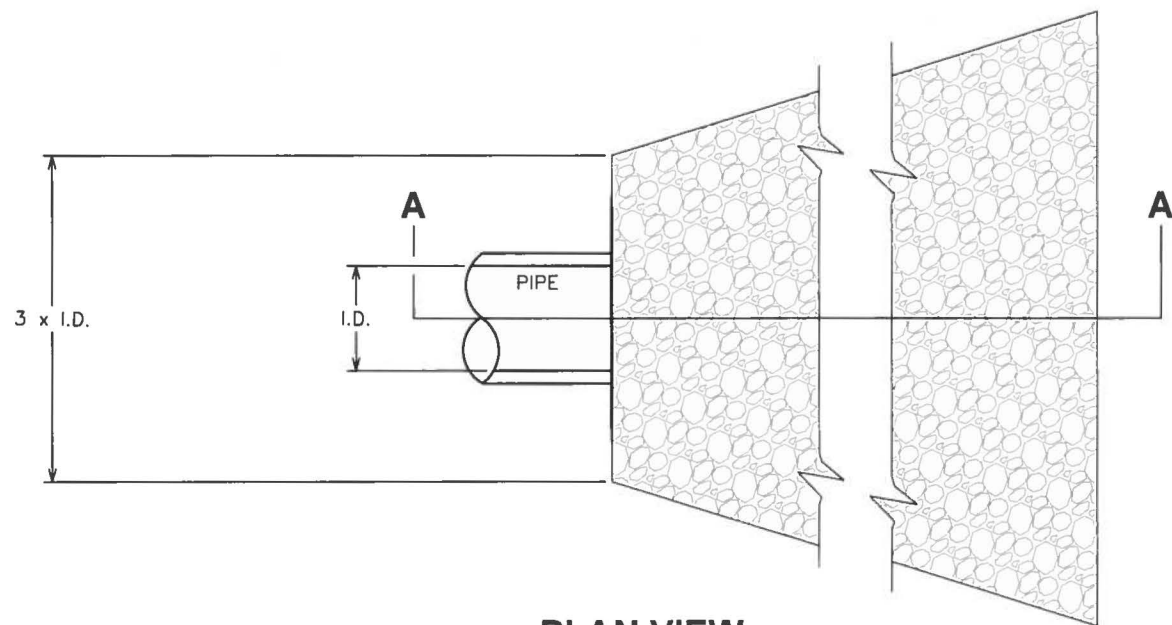
NOTES:

1. L = THE LENGTH OF THE RIPRAP APRON.
2. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6" (INCHES).
3. A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND SOIL FOUNDATION.



SECTION 'A-A'

FILTER FABRIC



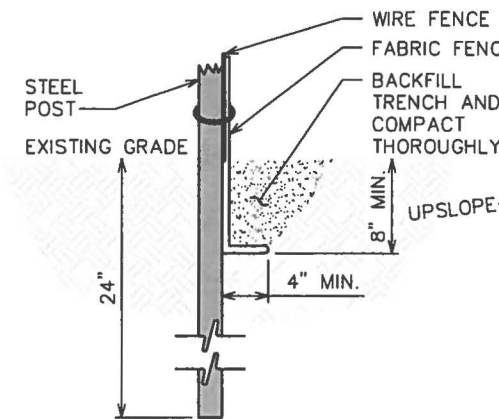
PLAN VIEW

DISSIPATOR PAD DETAIL

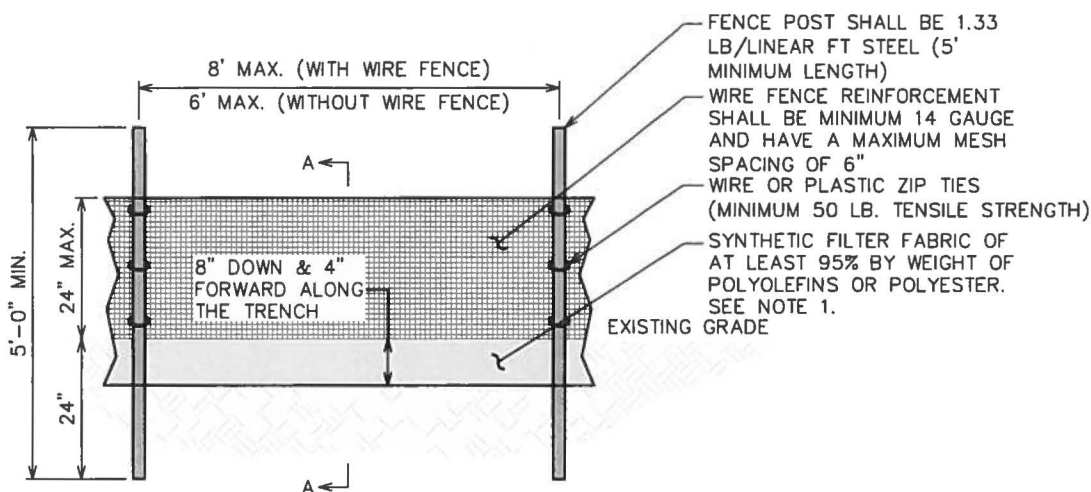
SCALE: N.T.S.

NOTES:

1. FILTER FABRIC SHALL CONFORM TO THE REQUIREMENTS LISTED IN ASTM D 6461.
2. ENDS OF INDIVIDUAL FILTER FABRIC SHALL BE SECURELY FASTENED AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAP TO THE NEXT POST
3. PLACE 12 INCHES OF FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.
4. INSPECT SEDIMENT FENCE(S) AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL.
5. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE.
6. AFTER CONSTRUCTION IS COMPLETE, THE CONTRACTOR SHALL REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE AND PROPERLY STABILIZE THE SITE.

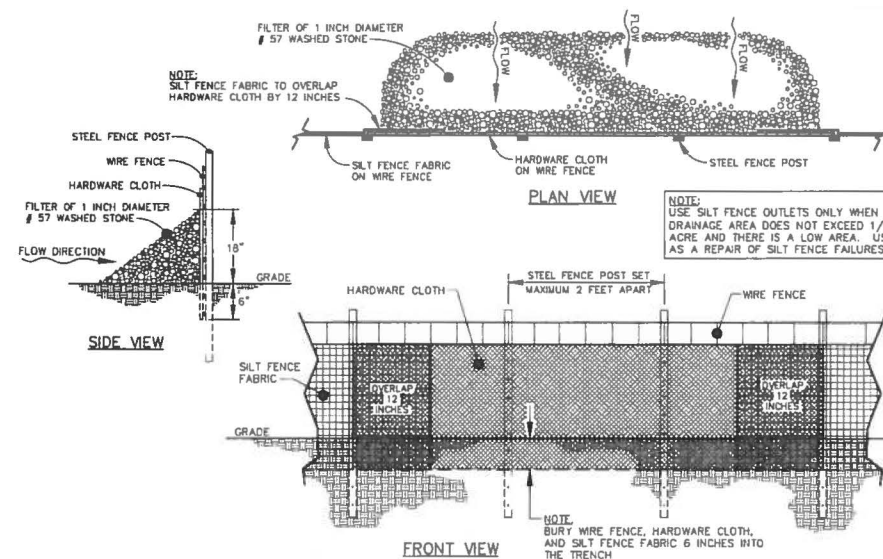


SECTION A-A



STANDARD SILT FENCE DETAIL

SCALE: N.T.S.



STANDARD SILT FENCE OUTLET DETAIL

SCALE: N.T.S.

APPLICANT/LESSEE:



8051 CONGRESS AVENUE
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OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

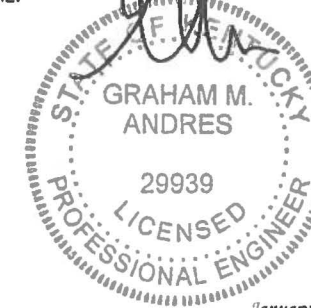
PLANS PREPARED BY:



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326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



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1	01-20-16	PRELIMINARY
0	01-07-16	PRELIMINARY

DRAWN BY: ML CHECKED BY: JAS

SHEET TITLE:

**EROSION CONTROL
DETAILS I**

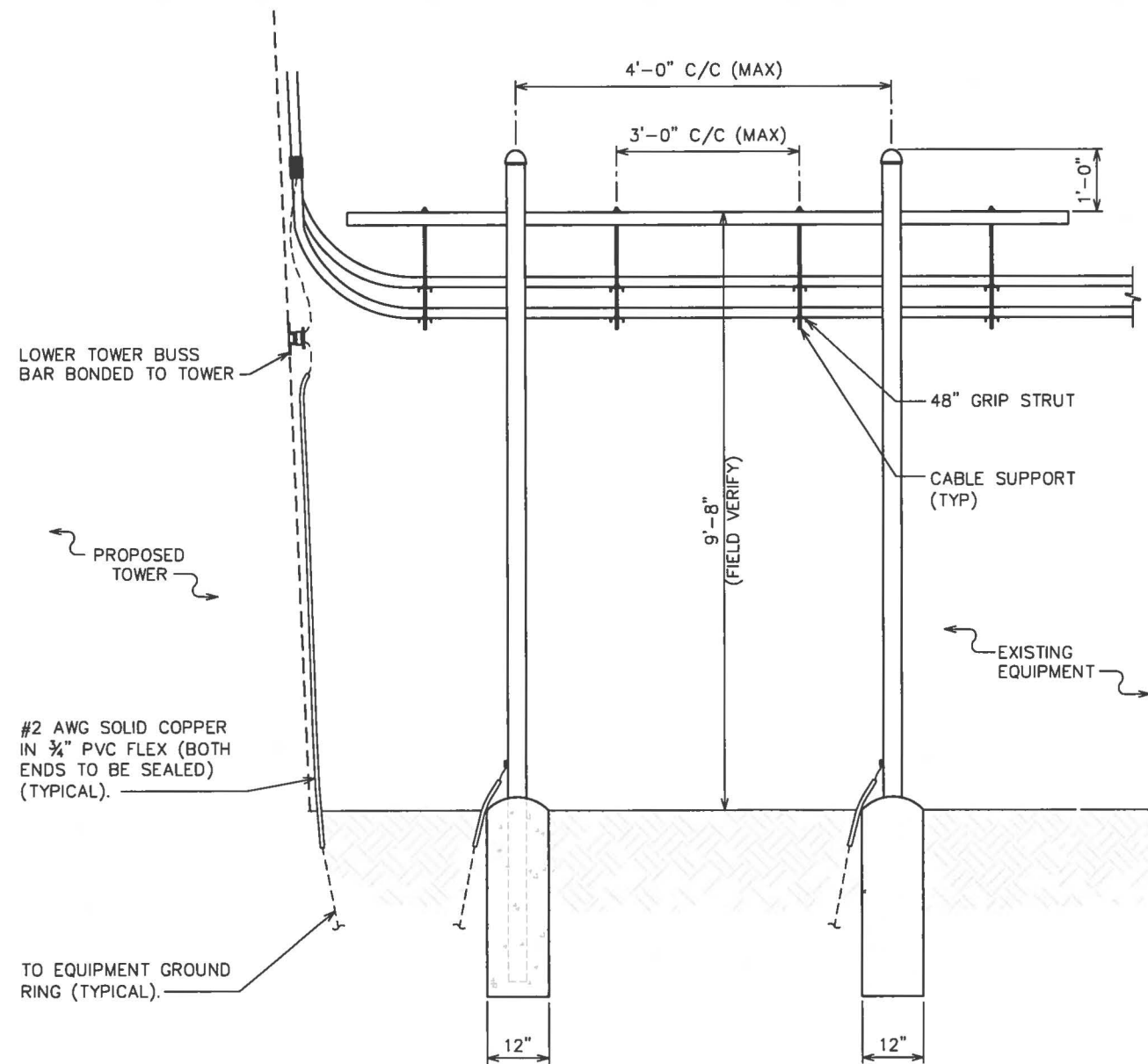
SHEET NUMBER:

C-5

REVISION:

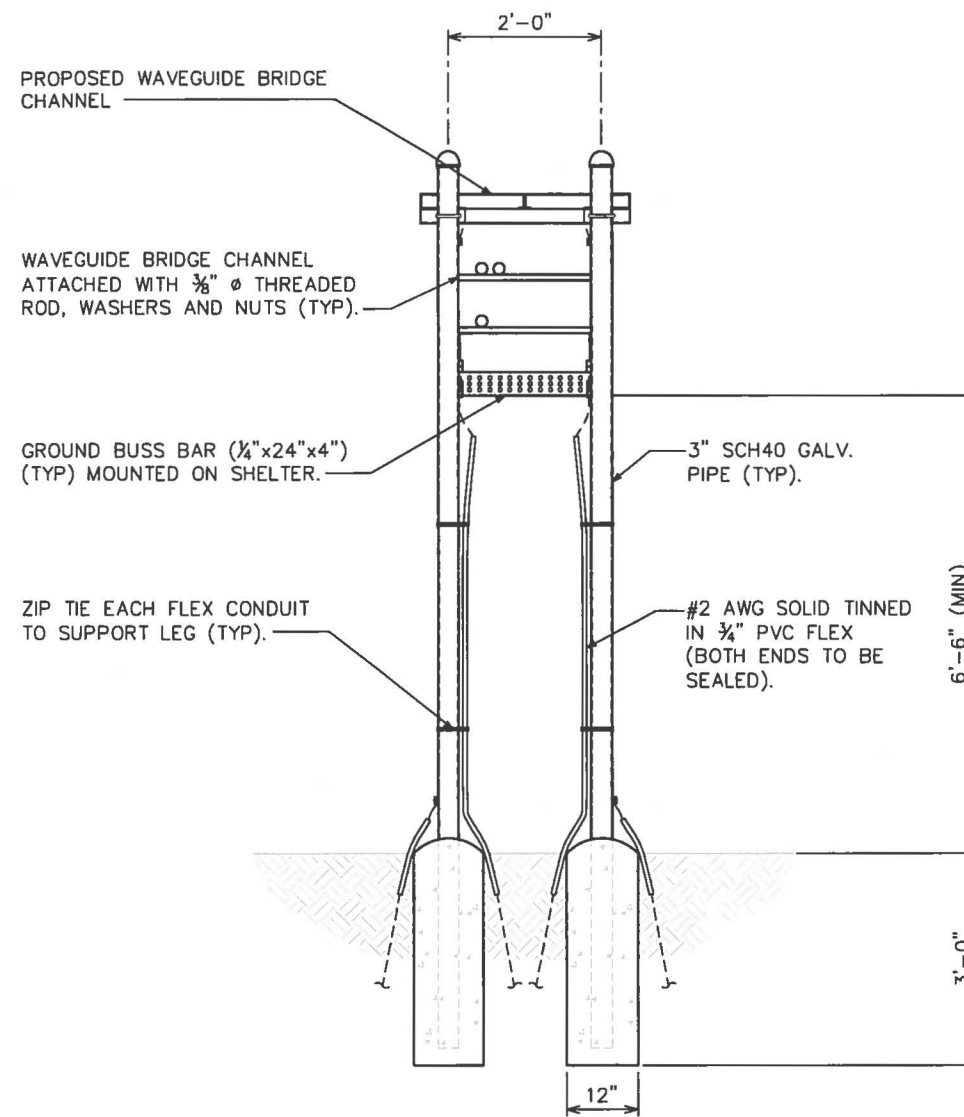
2

TEP #: 64594



ICE BRIDGE DETAIL (SIDE VIEW)

SCALE: N.T.S



ICE BRIDGE DETAIL (FRONT VIEW)

SCALE: N.T.S

APPLICANT/LESSEE:



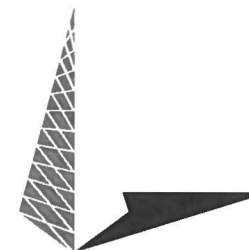
8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

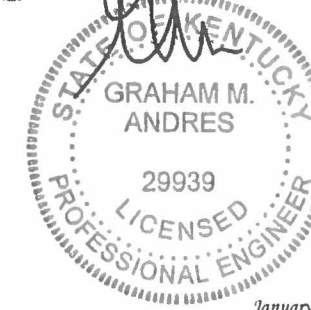
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(GREENUP COUNTY)

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SEAL:



January 25, 2016

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0	01-07-16	PRELIMINARY

DRAWN BY: ML CHECKED BY: JAS

SHEET TITLE:

**ICE BRIDGE
DETAILS**

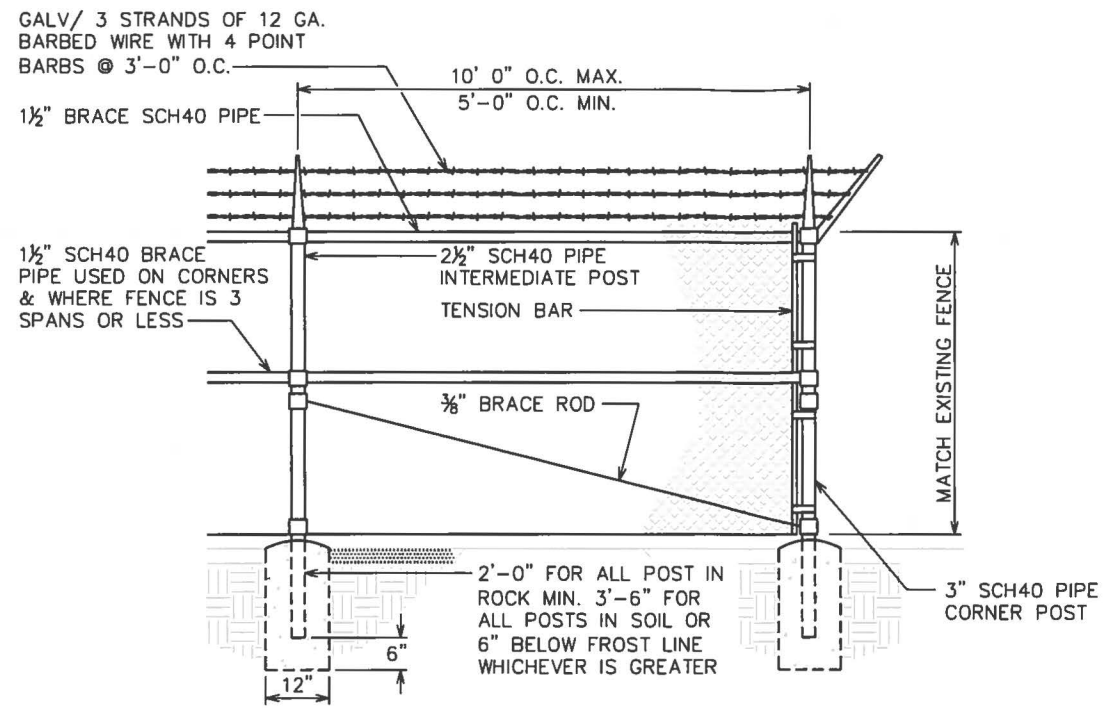
SHEET NUMBER:

C-6

REVISION:

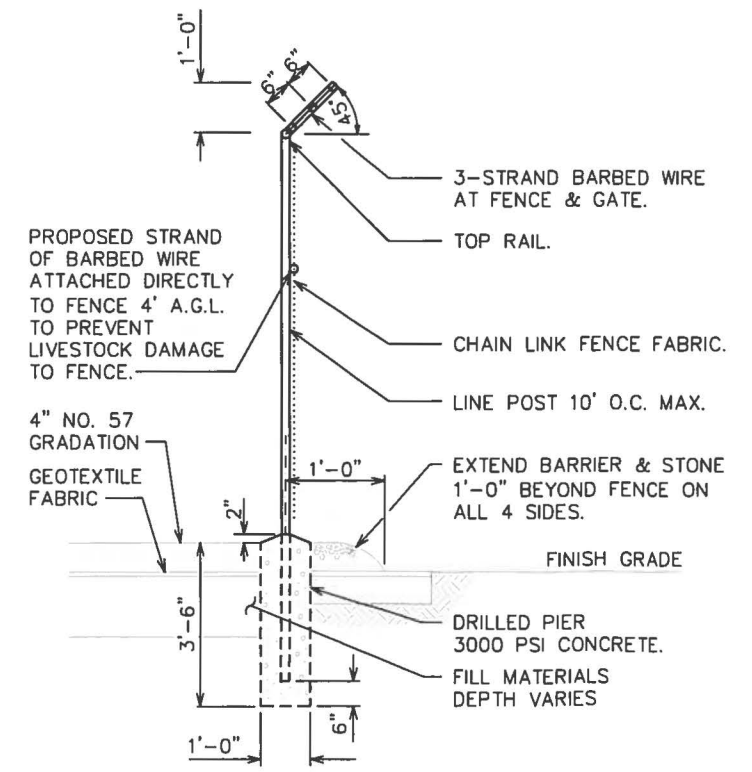
2

TEP #: 64594



PROPOSED FENCE ELEVATION

SCALE: N.T.S.



FENCE / BARBED WIRE ARM DETAIL

SCALE: N.T.S.

APPLICANT/LESSEE:



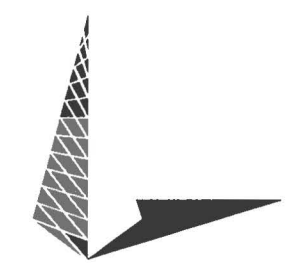
8051 CONGRESS AVENUE
BOCA RATON, FL 33487
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PROJECT INFORMATION:

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(KY02128)**

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0	01-07-16	PRELIMINARY

DRAWN BY: ML CHECKED BY: JAS

SHEET TITLE:
**PROPOSED FENCE
DETAILS**

SHEET NUMBER: **C-7** REVISION: **2**
TEP #: 64594

NOTES:

1. SIGNS TO BE INSTALLED ON COMPOUND FENCE PANEL TO THE LEFT ON THE GATE. NOT ON ACTUAL GATE.
2. SIGN ① SHALL BE POSTED AT THE PUBLIC ROW WHERE THE ACCESS TO THE SITE SHALL BE AND ON THE COMPOUND FENCE PANEL TO THE LEFT OF THE GATE.

NO TRESPASSING!
AUTHORIZED ENTRY ONLY

WARNING ANTENNAS MAY BE ACTIVE

DO NOT CLIMB TOWER WITHOUT OWNERS WRITTEN AUTHORIZATION!

NOTICE

1. No person shall enter the site without the written authorization of the tower owner. 2. No person shall climb the tower without the written authorization of the tower owner. 3. No person shall tamper with any equipment on the tower. 4. No person shall use the tower for any purpose other than that for which it was designed. 5. No person shall use the tower for any purpose that may be hazardous to the health, safety, or property of others. 6. No person shall use the tower for any purpose that may be in violation of any applicable laws, regulations, or ordinances. 7. No person shall use the tower for any purpose that may be in violation of any applicable contracts, agreements, or licenses. 8. No person shall use the tower for any purpose that may be in violation of any applicable terms and conditions of service. 9. No person shall use the tower for any purpose that may be in violation of any applicable policies, procedures, or manuals. 10. 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18' x 24" .040 Aluminum

CAUTION



Beyond this point Radio frequency fields at this site may exceed FCC rules for human exposure. For your safety, this warning sign and the caution for cellular towers should be prominently displayed.

18' x 12" .040 Aluminum \$9.00

PLEASE KEEP GATE CLOSED

18' x 12" .040 Aluminum \$9.00

FCC# 1215412

4" x 18" .040 Aluminum \$5.00

1215412

1" FCC or Site ID Decal only \$2.50

①

SBA

SITE I.D.#: KY02128

FCC#:

LEASING (800) 487-SITE (7483)

EMERGENCY (888) 950-SITE (7483)

WWW.SBASITE.COM

24" x 48" .063 Aluminum

SBA

NETWORK SERVICES, INC

1-800-825-7029

CAUTION

NOTICE

WARNING

CAUTION

FCC#

NEAREST HOSPITAL

EMERGENCY #

24" x 18" SF C-X Plastic Temp \$4.00

SBA

SBA TOWERS

SITE ID #

FCC #

EMERGENCY 888-950-SITE (7483)

LEASING 800-487-SITE (7483)

18" x 24" SF C-X Plastic Temp \$3.50

1.575" x 2" Decals

SBA

Qty: 1000 - Search \$25000
 Qty: 5000 - Search \$45000
 Qty: 10000 - Search \$75000

APPLICANT/LESSEE:



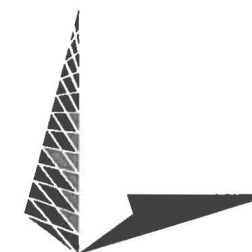
8051 CONGRESS AVENUE
 BOCA RATON, FL 33487
 OFFICE: (561) 226-9332

PROJECT INFORMATION:

GREENUP (KY02128)

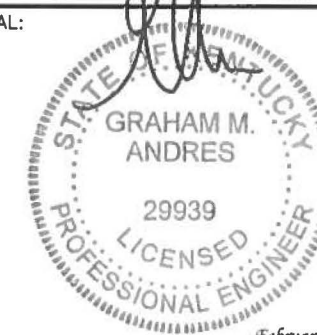
311 S LAUREL ST
 GREENUP, KY 41144
 (GREENUP COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603
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 www.tepgroup.net

SEAL:



February 1, 2016

3	02-01-16	CONSTRUCTION
2	01-25-16	CONSTRUCTION
1	01-20-16	PRELIMINARY
0	01-07-16	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ML CHECKED BY: JAS

SHEET TITLE:

SIGNAGE DETAILS

SHEET NUMBER:

C-8

REVISION:

3

TEP #: 64594

SIGNAGE DETAILS

SCALE: N.T.S.

ELECTRICAL NOTES:

SCOPE:

1. SHALL INCLUDE ALL LABOR, MATERIALS AND APPLIANCES REQUIRED FOR THE FURNISHING, INSTALLING AND TESTING, COMPLETE AND READY FOR OPERATION OF ALL WORK SHOWN ON THE DRAWING AS SPECIFIED HEREIN:

- | | |
|------------------------|-------------------------------|
| 1. ELECTRIC SERVICE | 4. MISCELLANEOUS MATERIALS |
| 2. CONDUIT AND RACEWAY | 5. TELEPHONE CONDUITS |
| 3. CONDUCTORS | 6. LIGHTNING ARRESTING SYSTEM |

CODES:

- THE INSTALLATION SHALL COMPLY WITH ALL APPLICABLE LAWS AND CODES. THESE INCLUDE BUT ARE NOT LIMITED TO THE LATEST EDITIONS OF:
 - THE NATIONAL ELECTRIC CODE – NEC
 - LOCAL AND STATE AMENDMENTS
 - REGULATIONS OF THE SERVING UTILITY COMPANY
- ALL PERMITS REQUIRED SHALL BE OBTAINED BY THE CONTRACTOR.
- AFTER COMPLETION AND FINAL INSPECTION OF THE WORK, THE OWNER SHALL BE FURNISHED A ESA CERTIFICATE OF COMPLETION AND APPROVAL.

TESTING:

- UPON COMPLETION OF THE INSTALLATION, OPERATE AND ADJUST ALL EQUIPMENT AND SYSTEMS TO MEET SPECIFIED PERFORMANCE REQUIREMENTS. ALL TESTING SHALL BE DONE BY QUALIFIED PERSONNEL.

GUARANTEE:

- IN ADDITION TO THE GUARANTEE OF THE EQUIPMENT BY THE MANUFACTURER, EACH PIECE OF EQUIPMENT SPECIFIED HEREIN SHALL ALSO BE GUARANTEED FOR DEFECTS OF MATERIAL OR WORKMANSHIP OCCURRING DURING A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE WORK BY THE OWNER. WITHOUT EXPENSE TO THE OWNER ALL WARRANTEE CERTIFICATES & GUARANTEES FURNISHED BY THE MANUFACTURERS SHALL BE TURNED OVER TO THE OWNER.

CO-ORDINATION:

- CONTRACTOR SHALL COORDINATE ALL WORK WITH THE POWER AND TELEPHONE COMPANIES AND SHALL COMPLY WITH ALL SERVICE REQUIREMENTS OF EACH UTILITY COMPANY.

EXAMINATION OF SITE:

- PRIOR TO BEGINNING WORK, THE CONTRACTOR SHALL VISIT THE SITE OF THE JOB AND SHALL FAMILIARIZE HIMSELF WITH ALL CONDITIONS AFFECTING THE PROPOSED ELECTRICAL INSTALLATION AND SHALL MAKE PROVISIONS AS TO THE COST THEREOF. FAILURE TO COMPLY WITH THE INTENT OF THIS PARAGRAPH WILL IN NO WAY RELIEVE THE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM OR SYSTEMS.

CUTTING, PATCHING AND EXCAVATION:

- COORDINATION OF ALL SLEEVES, CHASES, ETC., WILL BE REQUIRED PRIOR TO THE CONSTRUCTION OF ANY PORTION OF THE WORK. ALL CUTTING AND PATCHING OF WALLS, PARTITIONS, FLOORS, AND CHASES IN CONCRETE, WOOD, STEEL OR MASONRY SHALL BE DONE AS PROVIDED ON THE DRAWINGS.
- ALL NECESSARY EXCAVATIONS AND BACKFILLING INCIDENTAL TO THE WORK UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWING SHALL BE PROVIDED BY THIS CONTRACTOR.
- SEAL ALL PENETRATION THROUGH WALL AND FLOORS WITH APPROVED GROUT.

EXTERIOR CONDUIT:

- ALL EXPOSED CONDUIT SHALL BE NEATLY INSTALLED AND RUN PARALLEL OR PERPENDICULAR TO STRUCTURAL ELEMENTS. SUPPORTS AND MOUNTING HARDWARE SHALL BE HOT DIPPED GALVANIZED STEEL.

RACEWAYS:

- ALL CONDUCTORS SHALL BE INSTALLED IN CONDUIT. ALL CONDUIT SHALL BE RIGID STEEL, EMT OR SCH40 PVC AS INDICATED ON THE DRAWINGS.
- WHERE INSTALLED ON EXTERIORS AND EXPOSED TO DAMAGE, ALL CONDUIT SHALL BE RIGID STEEL. ALUMINUM CONDUIT SHALL NOT BE ALLOWED.
- CONCEALED CONDUIT IN WALLS OR INTERIOR SPACES ABOVE GRADE MAY BE EMT.
- UNDERGROUND CONDUITS SHALL BE RIGID STEEL OR SCHEDULE 40 PVC AS INDICATED ON THE DRAWINGS.
- ALL CONDUIT RUNS SHALL USE APPROVED COUPLINGS AND CONNECTORS. PROVIDE INSULATED BUSHING FOR ALL CONDUIT TERMINATIONS. ALL CONDUIT RUNS IN A WET LOCATION SHALL HAVE WATERPROOF FITTINGS.
- PROVIDE SUPPORTS FOR ALL CONDUITS IN ACCORDANCE WITH CEC REQUIREMENTS. ALL CONDUITS SHALL BE SIZED AS REQUIRED BY NEC.
- BURIAL DEPTH OF ALL CONDUITS SHALL BE AS REQUIRED BY CODE FOR EACH SPECIFIC CONDUIT TYPE AND APPLICATION.

- CONDUIT ROUTES ARE SCHEMATIC. CONTRACTOR SHALL FIELD VERIFY BEFORE BID. COORDINATE ROUTE WITH WIRELESS CARRIER AND BUILDING OWNER.

EQUIPMENT:

- ALL DISCONNECT SWITCHES SHALL BE SERVICE ENTRANCE RATED, HEAVY DUTY TYPE.
- NEW CIRCUIT BREAKERS SHALL BE RATED TO WITHSTAND THE MAXIMUM AVAILABLE FAULT CURRENT AS DETERMINED BY THE LOCAL UTILITY. CONTRACTOR SHALL VERIFY MAXIMUM AVAILABLE FAULT CURRENT, AND COORDINATE INSTALLATION WITH THE LOCAL UTILITY BEFORE STARTING WORK.

CONDUCTORS:

- FURNISH AND INSTALL CONDUCTORS CALLED FOR IN THE DRAWINGS. ALL CONDUCTORS SHALL HAVE TYPE THWN (MIN) (75°C) INSULATION, RATED FOR 600 VOLTS.
- ALL CONDUCTORS SHALL BE COPPER, THE USE OF ALUMINUM CONDUCTORS SHALL NOT BE ALLOWED. ALL CONDUCTORS SHALL BE UL LISTED AND SHALL BE PROVIDED AND INSTALLED AS FOLLOWS:
 - MINIMUM WIRE SIZE SHALL BE #12 AWG.
 - ALL CONDUCTORS SIZE #8 AND LARGER SHALL BE STRANDED. CONDUCTORS SIZED #10 AND SMALLER MAY BE SOLID OR STRANDED.
 - CONNECTION FOR #10 AWG AND SMALLER SHALL BE BY TWISTING TIGHT AND INSTALLING INSULATED PRESSURE OR WIRE NUT CONNECTIONS.
 - CONNECTION FOR #8 AWG AND LARGER SHALL BE BY USE OF STEEL CRIMP-ON SLEEVES WITH NYLON INSULATOR.
- ALL CONDUCTORS SHALL BE COLOR CODED IN ACCORDANCE WITH CEC STANDARDS.
- THE RACEWAY SYSTEM SHALL BE COMPLETE BEFORE INSTALLING CONDUCTORS

PENETRATIONS:

- CONTRACTOR SHALL COMPLY WITH ULC PENETRATION DETAILS FOR PENETRATIONS OF ALL RATED WALLS, ROOF, ETC.

APPLICANT/LESSEE:



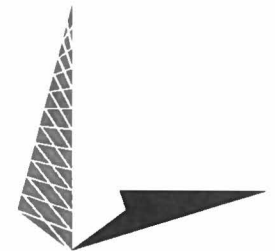
8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

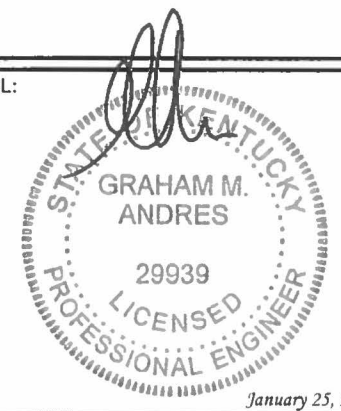
PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS

326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



2	01-25-16	CONSTRUCTION
1	01-20-16	PRELIMINARY
0	01-07-16	PRELIMINARY
REV	DATE	ISSUED FOR:

DRAWN BY: ML CHECKED BY: JAS




















SHEET TITLE:
**ELECTRICAL
NOTES**

SHEET NUMBER: E-1	REVISION: 2 TEP #: 64594
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ELECTRICAL LEGEND:

ABBREVIATIONS:

A - AMPERE
 AFG - ABOVE FINISHED GRADE
 ATS - AUTOMATIC TRANSFER SWITCH
 AWG - AMERICAN WIRE GAUGE
 BCW - BARE COPPER WIRE
 BFG - BELOW FINISHED GRADE
 BKR - BREAKER
 BTS - BASE TRANSCEIVER STATION
 C - CONDUIT
 C/W - COMPLETE WITH
 CKT - CIRCUIT
 DISC - DISCONNECT
 EC - EMPTY CONDUIT
 EGR - EXTERNAL GROUND RING
 EMT - ELECTRIC METALLIC TUBING
 F/A - FIRE ALARM
 FSC - FLEXIBLE STEEL CONDUIT
 GEN - GENERATOR
 GPS - GLOBAL POSITIONING SYSTEM
 GRD - GROUND
 IGB - ISOLATED GROUND BAR
 IGR - INTERIOR GROUND RING (HALO)
 KW - KILOWATTS
 MGB - MAIN GROUND BAR
 CEC - CANADIAN ELECTRIC CODE
 PCS - PERSONAL COMMUNICATION SYSTEM
 PH - PHASE
 PNL - PANEL
 PNLBD - PANELBOARD
 PVC - SCH40 RIGID NON-METALLIC CONDUIT
 RBS - RADIO BASE STATION
 REL - RELOCATED
 RGS - RIGID GALVANIZED STEEL CONDUIT
 S/C - SEPERATE CONDUIT
 SES - SITE ENGINEERING SPECIFICATIONS
 SW - SWITCH
 TGB - TOWER GROUND BAR
 U/F - UNFUSED
 ULC - UNDERWRITERS LABORATORIES, CANADA
 V - VOLTAGE
 W - WATTS
 WP - WEATHERPROOF
 XFMR - TRANSFORMER
 XMTR - TRANSMITTER

—E— UNDERGROUND ELECTRICAL CONDUIT
 —T— UNDERGROUND TELEPHONE CONDUIT
 KILOWATT-HOUR METER
 — — UNDERGROUND BONDING AND GROUNDING CONDUCTOR
 ● CADWELD
 GROUND ROD WITH INSPECTION WELL
 EXISTING M/W DISH ANTENNA
 FUTURE M/W DISH ANTENNA
 EXISTING ROOF DRAIN
 EXISTING ROOF HATCH
 \$ 15A 120V SPST SWITCH
 15A 120V DUPLEX RECEPTACLE
 120V. 1Ø DIRECT CONNECTION TO EQUIPMENT SUPPLIED BY OTHER DIVISIONS
 208V. 1Ø DIRECT CONNECTION TO EQUIPMENT SUPPLIED BY OTHER DIVISIONS
 CIRCUIT BREAKER
 DISCONNECT SWITCH. F DENOTES FUSED
 SURFACE MOUNTED PANELBOARD
 TRANSFORMER
 CHECK METER
 DENOTES CABLE OR CONDUIT TURNING UP IN PLAN VIEW
 CHANGE IN ELEVATION OF CABLE OR CONDUIT IN PLAN VIEW
 DENOTES CABLE OR CONDUIT TURNING DOWN IN PLAN VIEW
 GROUND ROD
 LIGHTNING PROTECTION AIR TERMINAL
 —ec— ETHERNET CABLE
 —f— FIBRE CABLE
 —dc— DC CABLE

APPLICANT/LESSEE:



8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

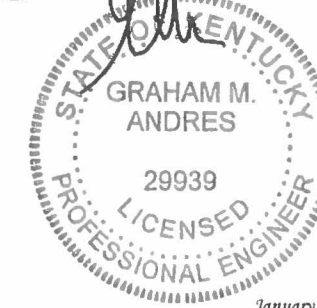
311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



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SHEET TITLE:

**ELECTRICAL
LEGEND**

SHEET NUMBER:

E-2

REVISION:

2

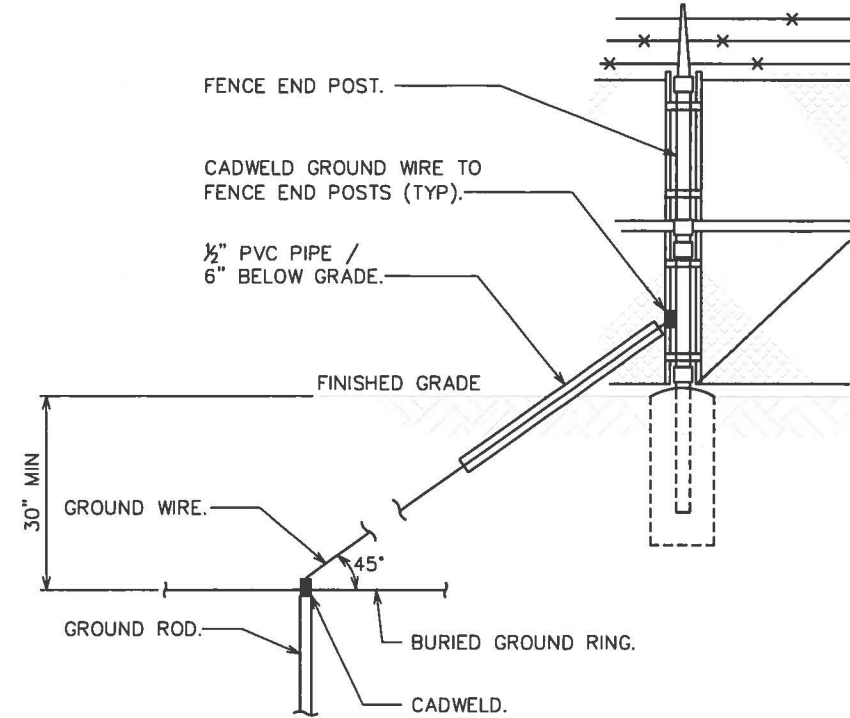
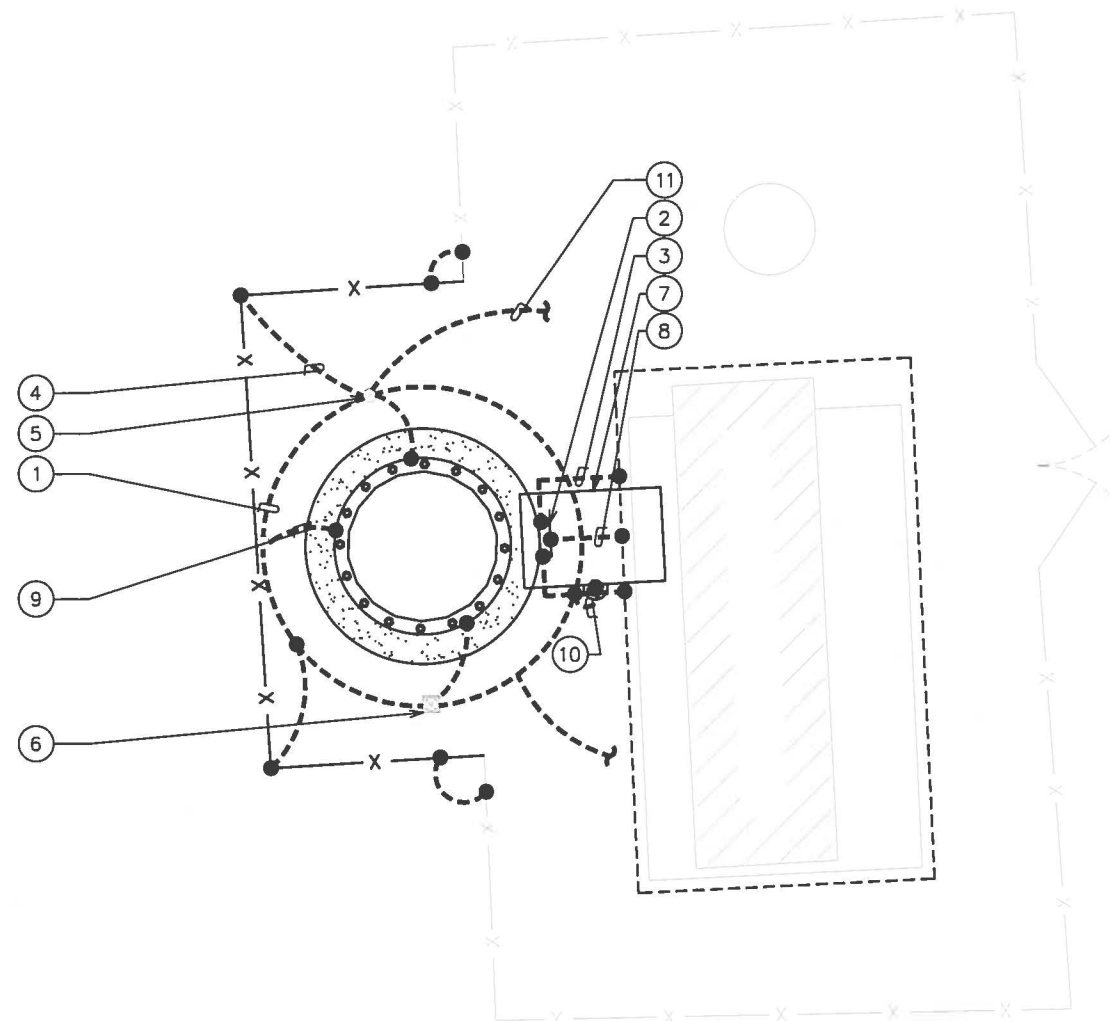
TEP #: 64594

GROUNDING NOTES:

- GROUNDING ELECTRODES SHALL BE CONNECTED IN A RING USING #2 AWG BARE TINNED COPPER WIRE. THE TOP OF THE GROUND RODS AND THE RING CONDUCTOR SHALL BE 30" BELOW FINISHED GRADE. GROUNDING ELECTRODES SHALL BE DRIVEN ON 15'-0" CENTERS (MAX).
- BONDING OF THE GROUNDED CONDUCTOR (NEUTRAL) AND THE GROUNDING CONDUCTOR SHALL BE AT THE SERVICE DISCONNECTING MEANS. BONDING JUMPER SHALL BE INSTALLED PER N.E.C. ARTICLE 250.30.
- CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER WHEN THE GROUNDING SYSTEM IS COMPLETE. THE CONSTRUCTION MANAGER SHALL INSPECT THE GROUNDING SYSTEM PRIOR TO BACKFILLING.

DRAWING NOTES:

- | | | | |
|--|---|--|---|
| ① PROPOSED TOWER GROUND RING | ⑤ 5/8" x 10' COPPER GROUND ROD | ⑨ BOND TOWER STEEL TO TOWER GROUND RING (TYP OF 3) | ⑪ PROPOSED GROUND TO CONNECT TO EXISTING EQUIPMENT GROUND RING. CONTRACTOR TO VERIFY LOCATION OF EXISTING GROUNDING SYSTEM (TYP). |
| ② PROPOSED TOWER BUS BAR | ⑥ GROUND ROD WITH INSPECTION WELL | ⑩ #2 AWG BOND TO PROPOSED ICE BRIDGE POST (TYP) | |
| ③ #2 AWG ICE BRIDGE GROUND RING BURIED 30" BFG (TYP) | ⑦ ICE BRIDGE | | |
| ④ #2 AWG BOND TO PROPOSED FENCE POST (TYP) | ⑧ #2 AWG BARE SOLID TINNED COPPER WIRE BETWEEN BUS BAR AND EXISTING EQUIPMENT GROUND RING | | |

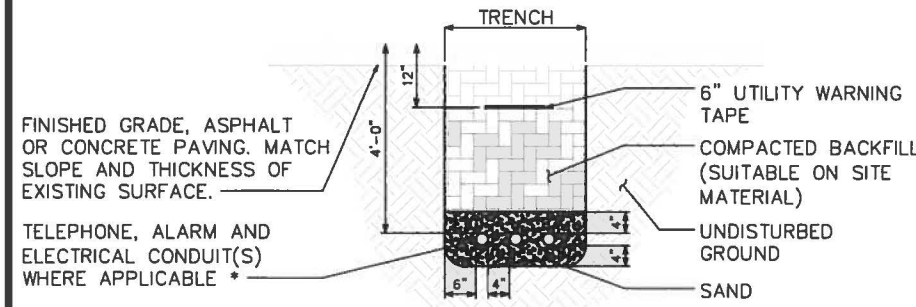


FENCE GROUNDING

SCALE: N.T.S.

NOTES:

- ACTUAL SEPARATION OF CONDUITS TO BE DETERMINED BY SITE SPECIFIC REQUIREMENTS.
- PROVIDE PVC CONDUIT BELOW GRADE EXCEPT AS NOTED BELOW.
- PROVED RGS CONDUIT AND ELBOWS AT STUB UP LOCATIONS (I.E. SERVICE POLES, EQUIPMENT, ETC.)
- PROVIDE RGS CONDUIT FOR INSTALLMENTS BELOW PARKING LOTS AND ROADWAYS.



* SEPARATION DIMENSIONS TO BE VERIFIED WITH LOCAL UTILITY COMPANY REQUIREMENTS.

UNDERGROUND CONDUIT(S) TRENCH ROUTING

SCALE: N.T.S.

APPLICANT/LESSEE:

SBA

8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:

**GREENUP
(KY02128)**

311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

PLANS PREPARED BY:

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DRAWN BY: ML CHECKED BY: JAS

SHEET TITLE:

GROUNDING PLAN

SHEET NUMBER: E-3	REVISION: 2 TEP #: 64594
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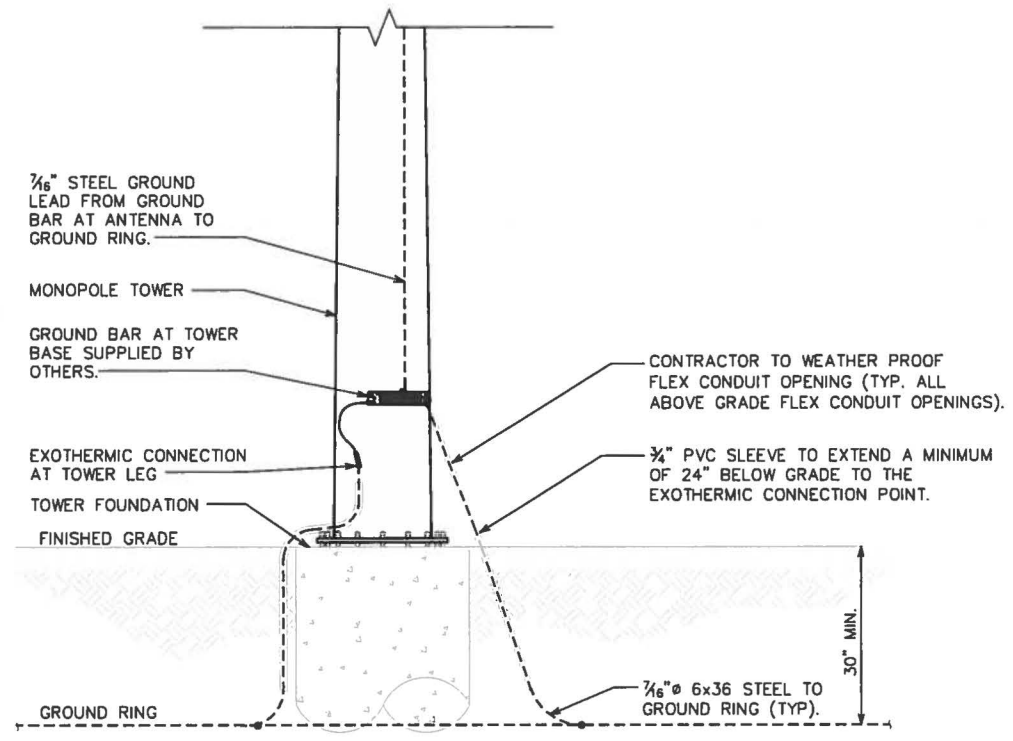
TOWER GROUNDING PLAN

SCALE: 1/8" = 1'-0"

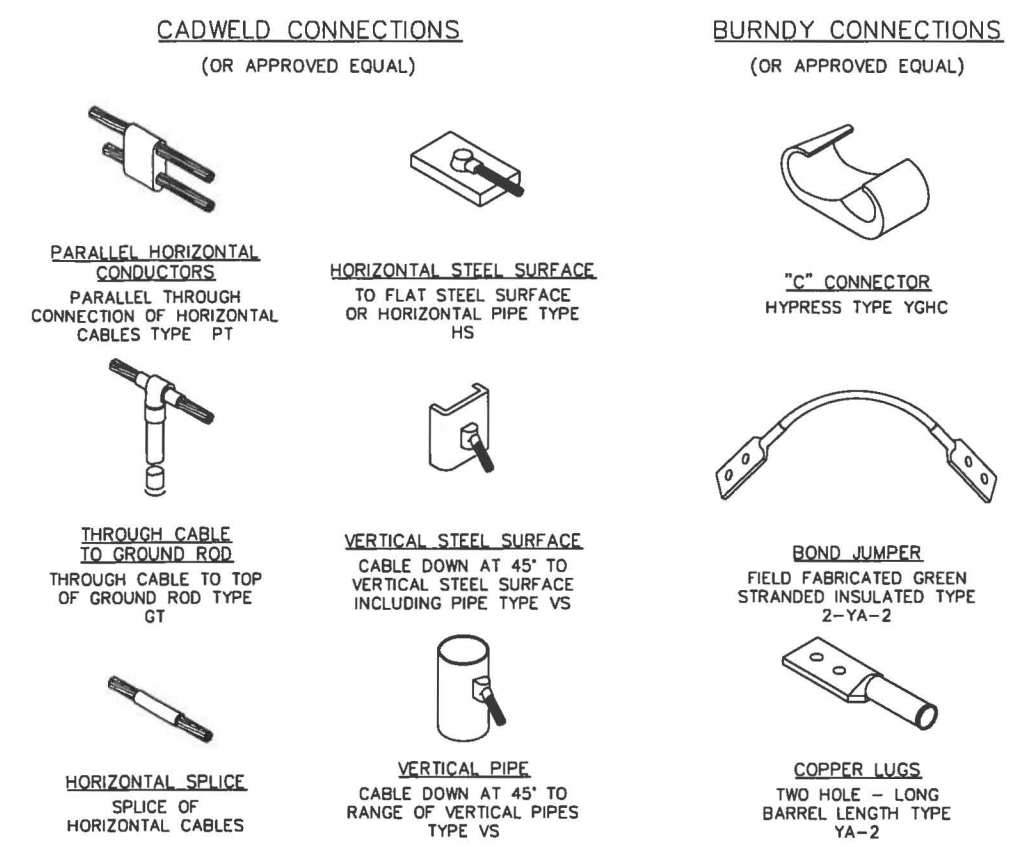


UNDERGROUND CONDUIT(S) TRENCH ROUTING

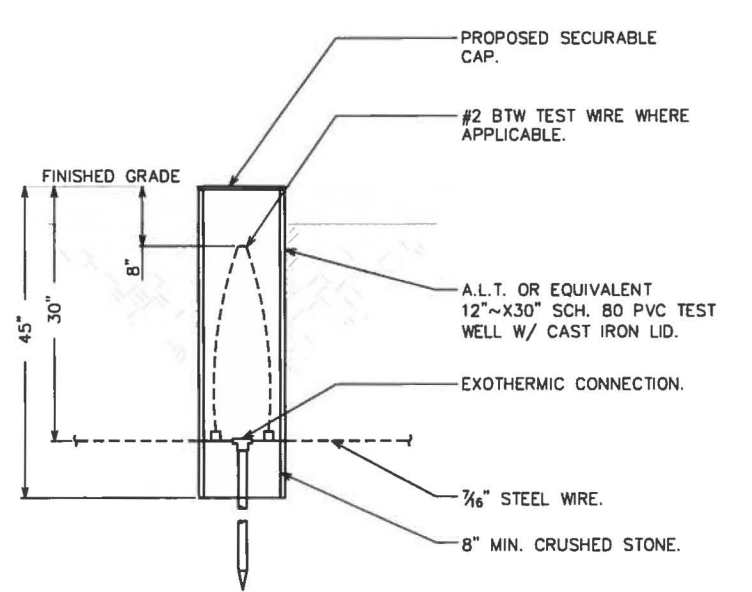
SCALE: N.T.S.



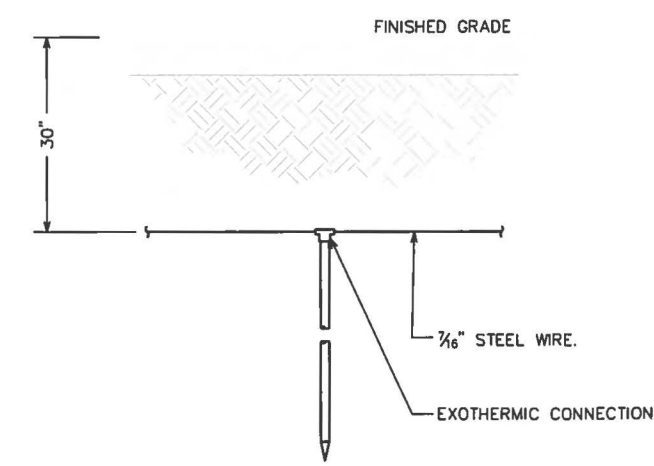
GROUNDING AT TOWER BASE
SCALE: N.T.S.



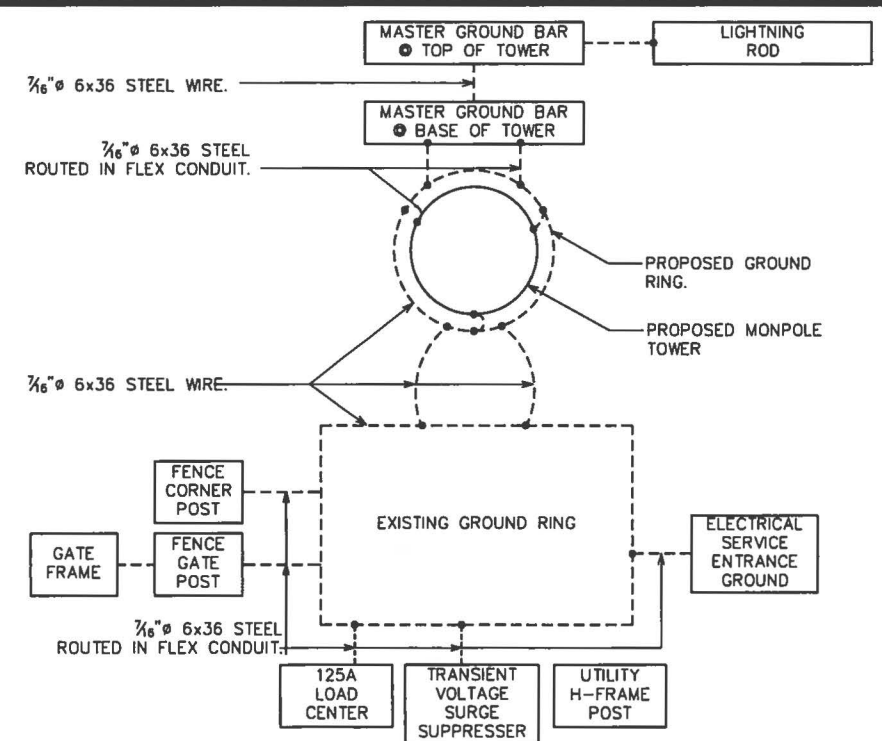
TYPICAL WELDING CONNECTIONS
SCALE: N.T.S.



ACCESS WELL DETAIL
SCALE: N.T.S.



GROUND ROD DETAIL
SCALE: N.T.S.



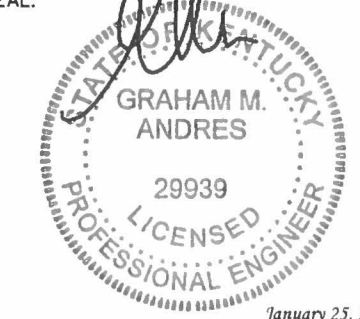
GROUNDING DIAGRAM
SCALE: N.T.S.

APPLICANT/LESSEE:
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8051 CONGRESS AVENUE
BOCA RATON, FL 33487
OFFICE: (561) 226-9332

PROJECT INFORMATION:
GREENUP (KY02128)
311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

PLANS PREPARED BY:

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326 TRYON ROAD
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www.tepgroup.net

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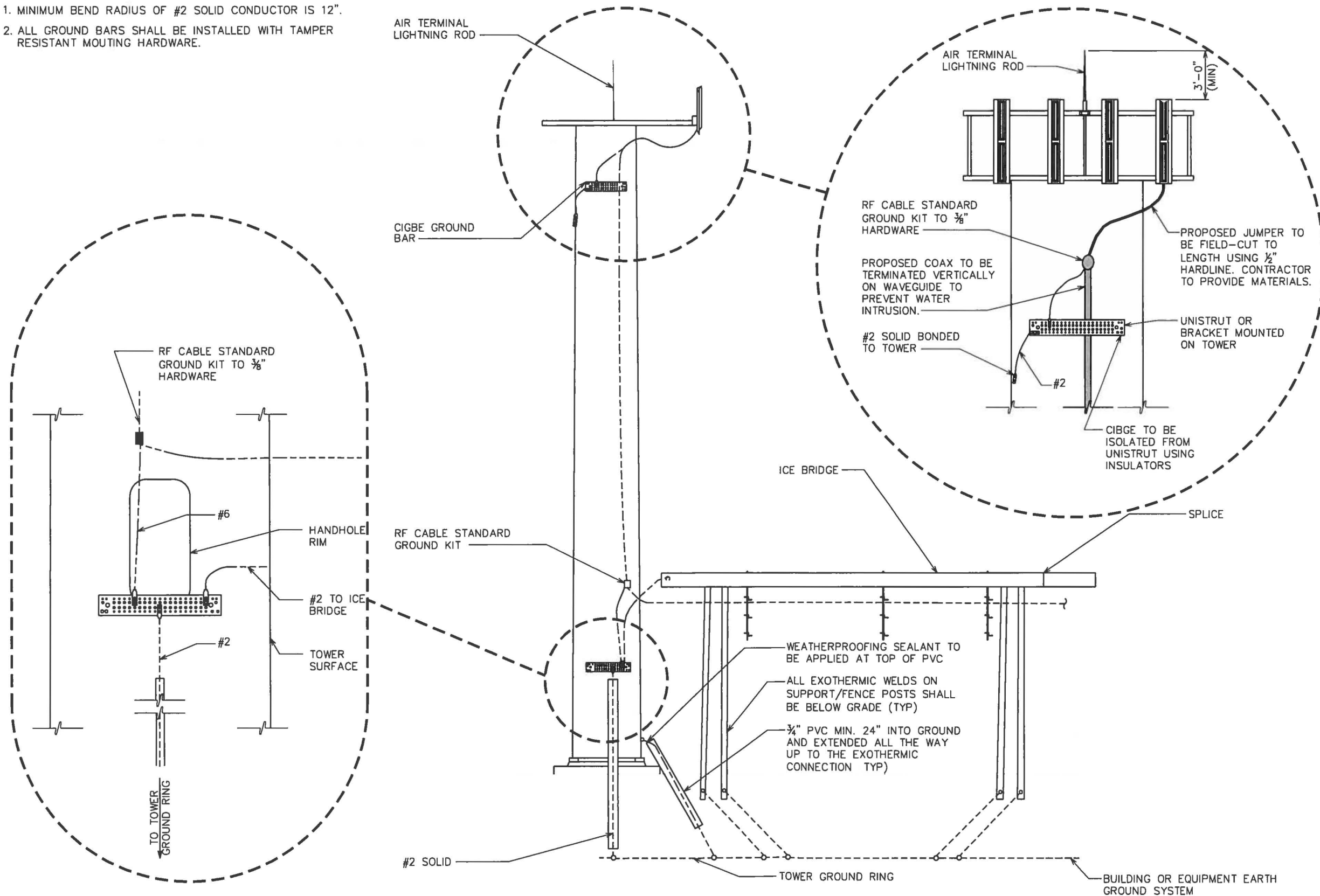
DRAWN BY: ML CHECKED BY: JAS


SHEET TITLE:
GROUNDING DETAILS I

SHEET NUMBER: **E-4** REVISION: **2**
TEP #: 64594

NOTES:

1. MINIMUM BEND RADIUS OF #2 SOLID CONDUCTOR IS 12".
2. ALL GROUND BARS SHALL BE INSTALLED WITH TAMPER RESISTANT MOUNTING HARDWARE.

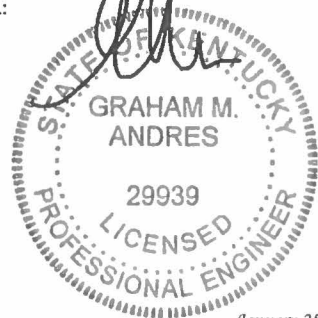


APPLICANT/LESSEE:
SBA 
 8051 CONGRESS AVENUE
 BOCA RATON, FL 33487
 OFFICE: (561) 226-9332

PROJECT INFORMATION:
GREENUP (KY02128)
 311 S LAUREL ST
 GREENUP, KY 41144
 (GREENUP COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603
 OFFICE: (919) 661-6351
 www.tepgroup.net

SEAL:

 GRAHAM M. ANDRES
 29939
 LICENSED PROFESSIONAL ENGINEER
 January 25, 2016

REV	DATE	ISSUED FOR:
2	01-25-16	CONSTRUCTION
1	01-20-16	PRELIMINARY
0	01-07-16	PRELIMINARY

DRAWN BY: MLHJ CHECKED BY: JABAS

SHEET TITLE:
GROUNDING DETAILS II

SHEET NUMBER: **E-5** REVISION: **2**
 TEP #: 64594

ICE BRIDGE, COAX, STANCHION, AND TOWER GROUNDING DETAIL

SCALE: N.T.S.

Exhibit D

Structural Design and Foundation Design

1201 S. Sheridan St.
South Bend, IN 46619

Phone 800-806-3556
Fax 574-288-5860
E-mail jlambert@nelloinc.com

Jason Lambert, P.E.

Professional experience

08/02 to Present Nello Corporation South Bend, IN

Vice President of Engineering

- Responsible for design of all self-supporting, guyed, and pole towers.
- Responsible for design of all self-supporting, guyed, and pole foundations.
- Manage all engineering functions included design, CAD, and BOM creation

02/00 to 08/02 Valmont Industries Plymouth, IN

Design Engineer

- Calculated member capacities for new pipe leg tower line.
- Tested new tower design analysis software and compared results to existing software to confirm agreement between calculations and compliance to TIA code
- Calculated capacities of antenna mounts.

Education

08/94 to 05/98 University of Kansas Lawrence, KS

BS Civil Engineering

08/98 to 05/00 Texas A&M University College Station, TX

ME Civil Engineering

Registered Professional Engineer

06/04 to Present Registered in 35 states

Robert E. Beacom, P.E., S.E.

Senior Design Engineer

Sabre Towers & Poles (Division of Sabre Industries)

Sioux City, IA

PROFESSIONAL REGISTRATION

Registered Professional Engineer or Structural Engineer in 41 states

- Passed Civil Engineering (P.E.) examination in 2010
- Passed Vertical Component of Structural Engineering (S.E.) examination in 2014
- Passed Lateral Component of Structural Engineering (S.E.) examination in 2015

PROFESSIONAL EXPERIENCE

Sabre Industries

9/05 to Present

Sioux City, IA

Senior Design Engineer

- Full responsibility for the design of communication tower and foundations.
- Designed thousands of self-supporting and guyed towers and their foundations (including seismic design, when necessary), for sites in the United States and foreign countries.
- Trained and mentored three entry-level engineers.
- Helped develop spreadsheets to design foundations.

EDUCATION

Iowa State University

Ames, IA

Bachelor of Science in Civil Engineer, 2005

11587 W ATLANTIC BLVD
CORAL SPRINGS, FL
954-592-0727.AGREDO86@GMAIL.COM

MAURICIO AGREDO

TELECOMMUNICATIONS PROJECT MANAGER

- 9 years of wireless/wireline telecommunications experience.
- Improved quality of operations through on-site monitoring and direct supervising.
- Advanced skills with leading knowledge on site development and milestone completion.
- Internal and external resource coordinator for the purpose of streamline operations, functions and support activities.
- Recognized by management for job knowledge, judgment/decision making and adaptability to the industry.

PROFESSIONAL EXPERIENCE

SBA Communications Corporation, Boca Raton, FL (July 2013 – present)

Construction Project Manager-New Tower Development.

- Successfully managed over 65 new cellphone tower development projects across the US.
- Manage up to 10 sub-contractors working in different new tower builds.
- Order and coordinate utilities to bring power and Telco to raw land sites.
- Quote/ purchase towers from multiple suppliers for new cell site development.
- Interface with customers, subcontractors/ consultants and internal staff members on selected candidate sites within specific geographic areas, which meet engineering and company standards.
- Perform zoning activities and collect required documentation for cellular antennas and communication towers based on municipal codes.
- Obtain all necessary permits needed for tower construction (building/ electrical).
- Handle the RFQ/RFP process for each project.
- Manage the bid call/award/Budgets/PO's/ Job Close – Out) procedures for each job.
- Ensure quality construction is being performed within established budget and schedule while retaining customer standards of performance.

Skyhook Telecom, Inc. Coral Springs, FL (August 2011 – July 2012)

Wireless Construction Manager.

- Direct supervision of electrical, civil and tower crews on multiple cell sites through different markets.
- Involved with the Nokia Siemens-T-Mobile modernization project in the Chicago market.
- Managed all aspects of the Sprint Vision RAN upgrade for over 180 Sprint PCS collocated sites in the FL market.
- In charge of the first and second carrier “4G LTE” equipment installation for over 350 AT&T Wireless sites in the South Florida and North Carolina market.
- Determine materials, labor and construction requirements in order to successfully complete projects.
- Responsible for implementation of company policy for staff supervisors and field personnel required to maintain a safe and clean working environment.
- Direct point of contact with the customer and property owners.
- Review and create spreadsheets in order to track material, job status, personnel to present to customers and senior management during daily updates.
- Provide technical know-how to field crews for the installation of RF equipment as well as termination of power connections, Fiber optic and copper communication cable.

Unitek Global Services, Pompano Beach, FL (February 2008 - August 2011)

Project Manager of the Florida Specialty Services Division.

- Managed Construction Managers and field personnel to accomplish weekly and quarterly goals.
- Developed the specialty services division in order to manage the “Fiber to the Cell Site” project for FPL FiberNet, over 1000 sites for cell phone carriers including: Verizon Wireless, T-Mobile, MetroPCS and Sprint. Exceeding customer forecasted numbers while maintaining an average of 30% GPM.
- Managed the “Florida Fiber Expansion Project” for FPL FiberNet, completing over 30 Riser build outs (Cat5e, Fiber Optic Cable and equipment) in high profile buildings throughout Florida.
- Managed all aspects of the “4G Repeater Project” for 45 Sprint/ClearWire to optimize their 4G signal inside commercial buildings, malls and Sprint Stores.
- Directed the Hilton HSIA (High Speed Internet Access) project, over 150+ Hotels throughout the US.
- Review and create spreadsheets in order to track material, job status, personnel and P&L to present to Senior Management and customers in weekly meetings.

EDUCATION

2014-2016(expected) Florida Atlantic University Boca Raton, FL

B.B.A in Management and Marketing.

- Comprehensive course work in Management and Organizational Behavior, Corporate Finance, Communicating Business Information and Operations Management.

2009-2013 Broward College Coconut Creek, FL

Associates in Business Administration

- Accomplished coursework in Statistics, Accounting and Economics with emphasis on Business Administration.
- Graduated with a 3.15 GPA.

SKILLS

- Strong interpersonal, communication and organizational skills
- Solid data collection, analysis and decision-making skills.
- Ability to work simultaneously on multiple tasks with attention to detail and follow up.
- Familiar with internal and external vendor interfaces used for project reporting and forecasting (SharePoint, SRM (Ericsson), CRM, OneVision.
- Fluent in English and Spanish.



Structural Design Report
150' Monopole
Site: Greenup, KY
Site Number: KY02128

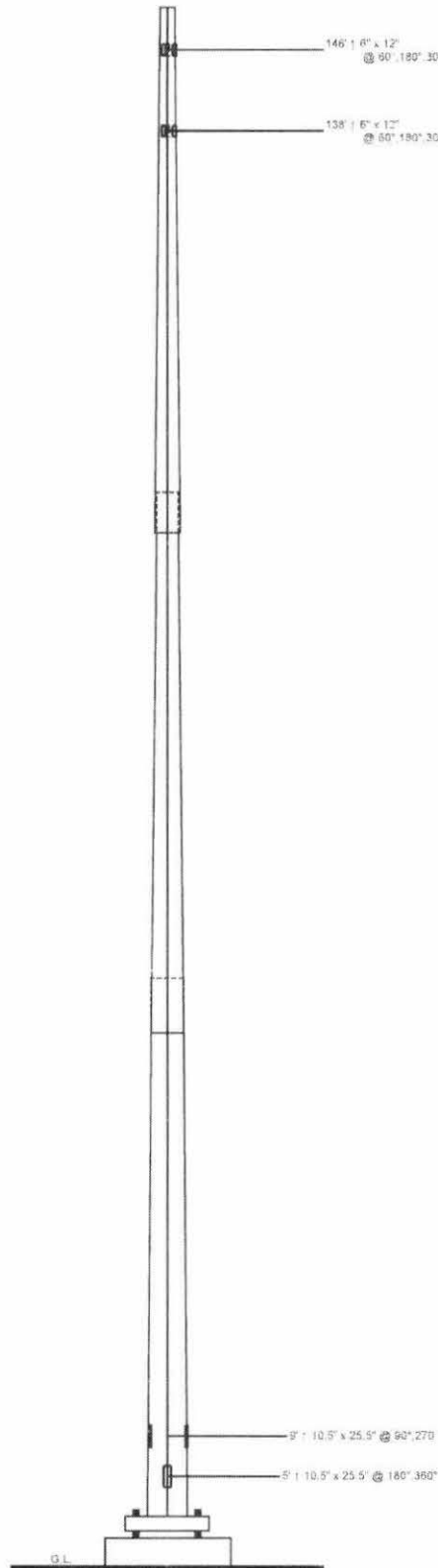
Prepared for: SBA NETWORK SERVICES INC
by: Sabre Towers & Poles™

Job Number: 131871
Revision A
November 9, 2015

Monopole Profile..... 1
Pole Calculations..... 2-9



Section	1	2	3
Length (ft)	53'-3"	53'-6"	51'-9"
Number OT Slides		18	
Thickness (in)	3/8"	5'-6"	5/16"
Lap Splice (ft)			4'-0"
Top Diameter (in)	37.11"	26.84"	16.5"
Bottom Diameter (in)	49.34"	39.12"	28.38"
Taper (in/ft)		0.22296	
Grade		A572-65	
Weight (lbs)	11354	7494	4270
Overall Steel Height (ft)		149	



Designed Appurtenance Loading

Elev	Description	Tx-Line
150	(1) 200 Sq. Ft. EPA (225 Sq. Ft. Ice EPA)	(12) 1 5/8"
140	(1) 200 Sq. Ft. EPA (225 Sq. Ft. Ice EPA)	(12) 1 5/8"

Load Case Reactions

Description	Axial (kips)	Shear (kips)	Moment (ft-k)	Deflection (ft)	Sway (deg)
3s Gusted Wind	38.07	34.53	3980.22	15.47	12.19
3s Gusted Wind 0.9 Dead	28.52	34.45	3900.22	15.08	11.86
3s Gusted Wind&Ice	77.61	4.05	514.94	2.17	1.72
Service Loads	31.74	8.59	991.64	3.98	3.09

Base Plate Dimensions


Shape	Diameter	Thickness	Bolt Circle	Bolt Qty	Bolt Diameter
Round	61.75"	2.25"	56"	14	2.25"

Anchor Bolt Dimensions

Length	Diameter	Hole Diameter	Weight	Type	Finish
84"	2.25"	2.625"	1695.4	A615-75	Galv-18"

Notes

- 1) Antenna Feed Lines Run Inside Pole
- 2) All dimensions are above ground level, unless otherwise specified.
- 3) Weights shown are estimates. Final weights may vary.
- 4) The Monopole was designed for a basic wind speed of 90 mph with 0" of radial ice, and 30 mph with 3/4" of radial ice, in accordance with ANSI/TIA-222-G, Structure Class II, Exposure Category C, Topographic Category 3, with a Crest Height of 95'.
- 5) Full Height Step Bolts

	Sabre Communications Corporation 7101 Southbridge Drive P.O. Box 658 Sioux City, IA 51102-0658 Phone (712) 256-6690 Fax (712) 279-0814	Job: 131871A Customer: SBA NETWORK SERVICES INC Site Name: Greenup, KY KY02128 Description: 150' Monopole Date: 11/9/2015 By: BD
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150' Monopole / Greenup, KY

* All pole diameters shown on the following pages are across corners.
 See profile drawing for widths across flats.

===== POLE GEOMETRY =====

ELEV ft	SECTION NAME	No of SIDES	OUTSIDE DIAM in	THICK- NESS in	RESISTANCES ♦*Pn kip	♦*Mn ft-kip	SPLICE TYPE	...OVERLAP... LENGTH ft	RATIO
149.0	A	18	16.75	0.312	1192.9	392.8			
101.2	A/B	18	27.88	0.312	2000.1	1112.6	SLIP	4.00	1.73
97.2	B	18	28.19	0.375	2422.2	1357.0			
53.2	B/C	18	38.43	0.375	3313.4	2548.6	SLIP	5.50	1.72
47.7	C	18	38.98	0.375	3348.7	2612.9			
0.0			50.10	0.375	3995.9	4025.0			

===== POLE ASSEMBLY =====

SECTION NAME	BASE ELEV ft	BOLTS NUMBER	AT BASE OF SECTION TYPE	DIAM in	STRENGTH ksi	THREADS IN SHEAR PLANE	Calc BASE ELEV ft
A	97.250	0	A325	0.00	92.0	0	97.250
B	47.750	0	A325	0.00	92.0	0	47.750
C	0.000	0	A325	0.00	92.0	0	0.000

===== POLE SECTIONS =====

SECTION NAME	No.of SIDES	LENGTH ft	OUTSIDE DIAMETER BOT * in	TOP * in	THICK- NESS in	MAT- ERIAL ID	FLANGE.ID BOT	TOP	FLANGE.WELD ..GROUP.ID.. BOT	TOP
A	18	51.75	28.82	16.75	0.312	1	0	0	0	0
B	18	53.50	39.73	27.25	0.375	2	0	0	0	0
C	18	53.25	50.10	37.68	0.375	3	0	0	0	0

* - Diameter of circumscribed circle

===== MATERIAL TYPES =====

TYPE OF SHAPE	TYPE NO	NO OF ELEM.	ORIENT & deg	HEIGHT in	WIDTH in	THICKNESS WEB	FLANGE	IRREGULARITY .PROJECTION. % OF ORIENT AREA	deg
PL	1	1	0.0	28.82	0.31	0.312	0.312	0.00	0.0
PL	2	1	0.0	39.73	0.38	0.375	0.375	0.00	0.0
PL	3	1	0.0	50.10	0.38	0.375	0.375	0.00	0.0

& - with respect to vertical

===== MATERIAL PROPERTIES =====

MATERIAL TYPE NO.	ELASTIC MODULUS ksi	UNIT WEIGHT pcf	.. STRENGTH .. Fu ksi	Fy ksi	THERMAL COEFFICIENT /deg
----------------------	---------------------------	-----------------------	-----------------------------	-----------	--------------------------------

131871A

1	29000.0	490.0	80.0	65.0	0.00001170
2	29000.0	490.0	80.0	65.0	0.00001170
3	29000.0	490.0	80.0	65.0	0.00001170

* Only 3 condition(s) shown in full

LOADING CONDITION A

90 mph wind with no ice. wind Azimuth: 0°

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
						HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	149.000	0.00	0.0	0.0	0.0	9.9936	4.8000	0.0000	0.0000
C	147.000	0.00	0.0	0.0	0.0	0.0000	2.2015	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.0	0.0000	2.0817	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.0	9.9514	4.8000	0.0000	0.0000
D	149.000	0.00	180.0	0.0	0.0	0.0502	0.0732	0.0000	0.0000
D	133.083	0.00	180.0	0.0	0.0	0.0502	0.0732	0.0000	0.0000
D	133.083	0.00	180.0	0.0	0.0	0.0599	0.0878	0.0000	0.0000
D	117.167	0.00	180.0	0.0	0.0	0.0599	0.0878	0.0000	0.0000
D	117.167	0.00	180.0	0.0	0.0	0.0699	0.1024	0.0000	0.0000
D	101.250	0.00	180.0	0.0	0.0	0.0699	0.1024	0.0000	0.0000
D	101.250	0.00	180.0	0.0	0.0	0.0764	0.2427	0.0000	0.0000
D	97.250	0.00	180.0	0.0	0.0	0.0764	0.2427	0.0000	0.0000
D	97.250	0.00	180.0	0.0	0.0	0.0810	0.1415	0.0000	0.0000
D	82.583	0.00	180.0	0.0	0.0	0.0810	0.1415	0.0000	0.0000
D	82.583	0.00	180.0	0.0	0.0	0.0916	0.1577	0.0000	0.0000
D	67.917	0.00	180.0	0.0	0.0	0.0916	0.1577	0.0000	0.0000
D	67.917	0.00	180.0	0.0	0.0	0.1033	0.1738	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0	0.1033	0.1738	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0	0.1123	0.3668	0.0000	0.0000
D	47.750	0.00	180.0	0.0	0.0	0.1123	0.3668	0.0000	0.0000
D	47.750	0.00	180.0	0.0	0.0	0.1185	0.1915	0.0000	0.0000
D	35.812	0.00	180.0	0.0	0.0	0.1185	0.1915	0.0000	0.0000
D	35.812	0.70	180.0	0.0	0.0	0.1305	0.2047	0.0000	0.0000
D	23.875	0.00	180.0	0.0	0.0	0.1305	0.2047	0.0000	0.0000
D	23.875	0.00	180.0	0.0	0.0	0.1413	0.2179	0.0000	0.0000
D	11.937	0.00	180.0	0.0	0.0	0.1413	0.2179	0.0000	0.0000
D	11.937	0.00	180.0	0.0	0.0	0.1652	0.2311	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0	0.1652	0.2311	0.0000	0.0000

LOADING CONDITION M

90 mph wind with no ice. wind Azimuth: 0°

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZI	LOAD AZI	.....FORCES.....		.....MOMENTS.....	
						HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	149.000	0.00	0.0	0.0	0.0	9.9936	3.6000	0.0000	0.0000
C	147.000	0.00	0.0	0.0	0.0	0.0000	1.6511	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.0	0.0000	1.5612	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.0	9.9514	3.6000	0.0000	0.0000
D	149.000	0.00	180.0	0.0	0.0	0.0502	0.0549	0.0000	0.0000
D	133.083	0.00	180.0	0.0	0.0	0.0502	0.0549	0.0000	0.0000
D	133.083	0.00	180.0	0.0	0.0	0.0599	0.0659	0.0000	0.0000
D	117.167	0.00	180.0	0.0	0.0	0.0599	0.0659	0.0000	0.0000
D	117.167	0.00	180.0	0.0	0.0	0.0699	0.0768	0.0000	0.0000
D	101.250	0.00	180.0	0.0	0.0	0.0699	0.0768	0.0000	0.0000
D	101.250	0.00	180.0	0.0	0.0	0.0764	0.1820	0.0000	0.0000
D	97.250	0.00	180.0	0.0	0.0	0.0764	0.1820	0.0000	0.0000
D	97.250	0.00	180.0	0.0	0.0	0.0810	0.1061	0.0000	0.0000
D	82.583	0.00	180.0	0.0	0.0	0.0810	0.1061	0.0000	0.0000
D	82.583	0.00	180.0	0.0	0.0	0.0916	0.1182	0.0000	0.0000
D	67.917	0.00	180.0	0.0	0.0	0.0916	0.1182	0.0000	0.0000
D	67.917	0.00	180.0	0.0	0.0	0.1033	0.1304	0.0000	0.0000
D	53.250	0.70	180.0	0.0	0.0	0.1033	0.1304	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0	0.1123	0.2751	0.0000	0.0000
D	47.750	0.00	180.0	0.0	0.0	0.1123	0.2751	0.0000	0.0000
D	47.750	0.00	180.0	0.0	0.0	0.1185	0.1436	0.0000	0.0000
D	35.812	0.00	180.0	0.0	0.0	0.1185	0.1436	0.0000	0.0000
D	35.812	0.00	180.0	0.0	0.0	0.1305	0.1535	0.0000	0.0000
D	23.875	0.00	180.0	0.0	0.0	0.1305	0.1535	0.0000	0.0000
D	23.875	0.00	180.0	0.0	0.0	0.1413	0.1634	0.0000	0.0000
D	11.937	0.00	180.0	0.0	0.0	0.1413	0.1634	0.0000	0.0000
D	11.937	0.00	180.0	0.0	0.0	0.1652	0.1733	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0	0.1652	0.1733	0.0000	0.0000

LOADING CONDITION Y

30 mph wind with 0.75 ice. wind Azimuth: 0°

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY. RADIUS ft	LOAD. AZI	AT AZI	.....FORCES.....		.....MOMENTS.....	
					HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	149.000	0.00	0.0	0.0	1.0016	18.9812	0.0000	0.0000
C	147.000	0.00	0.0	0.0	0.0000	2.2015	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.0000	2.0817	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.9963	18.9346	0.0000	0.0000
D	149.000	0.00	180.0	0.0	0.0077	0.1172	0.0000	0.0000
D	133.083	0.00	180.0	0.0	0.0077	0.1172	0.0000	0.0000
D	133.083	0.00	180.0	0.0	0.0089	0.1396	0.0000	0.0000
D	117.167	0.00	180.0	0.0	0.0089	0.1396	0.0000	0.0000
D	117.167	0.00	180.0	0.0	0.0102	0.1619	0.0000	0.0000
D	101.250	0.00	180.0	0.0	0.0102	0.1619	0.0000	0.0000
D	101.250	0.00	180.0	0.0	0.0110	0.3071	0.0000	0.0000
D	97.250	0.00	180.0	0.0	0.0110	0.3071	0.0000	0.0000
D	97.250	0.00	180.0	0.0	0.0116	0.2091	0.0000	0.0000
D	82.583	0.70	180.0	0.0	0.0116	0.2091	0.0000	0.0000
D	82.583	0.00	180.0	0.0	0.0130	0.2327	0.0000	0.0000
D	67.917	0.00	180.0	0.0	0.0130	0.2327	0.0000	0.0000
D	67.917	0.00	180.0	0.0	0.0145	0.2564	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0145	0.2564	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0157	0.4547	0.0000	0.0000
D	47.750	0.00	180.0	0.0	0.0157	0.4547	0.0000	0.0000
D	47.750	0.00	180.0	0.0	0.0165	0.2823	0.0000	0.0000
D	35.812	0.00	180.0	0.0	0.0165	0.2823	0.0000	0.0000
D	35.812	0.00	180.0	0.0	0.0181	0.3017	0.0000	0.0000
D	23.875	0.00	180.0	0.0	0.0181	0.3017	0.0000	0.0000
D	23.875	0.00	180.0	0.0	0.0195	0.3202	0.0000	0.0000
D	0.000	0.00	180.0	0.0	0.0226	0.3340	0.0000	0.0000

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150' Monopole / Greenup, KY

MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

MAST ELEV ft	.....DEFLECTIONS (ft).....			.....ROTATIONS (deg).....		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
149.0	15.47A	0.03U	2.27A	12.19A	-0.02F	0.00R
133.1	12.27A	0.03U	1.61A	11.64A	-0.02F	0.00R
117.2	9.33A	0.02U	1.05A	10.18A	-0.02F	0.00R
101.2	6.82A	0.02U	0.64A	8.41A	0.02U	0.00R
97.2	6.25A	0.02U	0.56A	8.03A	0.02U	0.00R
82.6	4.42E	0.01U	0.33A	6.59A	0.02U	0.00R
67.9	2.92E	0.01U	0.17A	5.23E	0.01U	0.00R
53.2	1.75E	0.01U	0.08A	3.97E	0.01U	0.00R
47.7	1.40E	0.00U	0.06E	3.52E	0.01U	0.00R
35.8	0.77E	0.00U	0.02E	2.55E	0.01U	0.00R
23.9	0.33E	0.00U	0.01E	1.64E	0.01U	0.00R
11.9	0.08E	0.00U	0.00E	0.79E	0.00U	0.00R
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

131871A

MAST ELEV ft	TOTAL AXIAL kip	SHEAR, w. r. t. ALONG kip	WIND, DIR ACROSS kip	MOMENT, w. r. t. ALONG ft-kip	WIND, DIR ACROSS ft-kip	TORSION ft-kip
149.0	18.98 a	10.00 P	0.00 L	0.00 P	-0.01 B	0.00 L
133.1	44.06 a	20.73 P	0.00 L	-246.22 D	-0.03 T	0.05 R
	44.06 a	20.73 U	0.00 F	-246.21 C	-0.03 N	0.05 R
117.2	46.29 a	21.67 U	0.00 F	-617.79 D	0.11 F	0.13 R
	46.28 j	21.67 W	-0.01 L	-617.80 D	0.11 F	0.13 R
101.2	48.86 j	22.77 W	-0.01 L	-1005.53 D	0.23 F	0.21 R
	48.86 j	22.86 I	0.05 B	-1005.48 D	0.26 R	0.21 R
97.2	50.09 j	23.16 I	0.05 B	-1105.88 F	0.33 F	0.25 R
	50.09 a	23.24 A	0.14 U	-1105.71 D	0.33 L	0.25 R
82.6	53.16 a	24.42 A	0.14 U	-1485.58 A	1.97 F	0.41 R
	53.16 c	24.47 E	-0.13 F	-1485.60 A	1.97 F	0.41 R
67.9	56.57 c	25.81 E	-0.13 F	-1883.02 A	3.87 F	0.59 R
	56.57 c	25.81 E	-0.13 F	-1883.01 A	3.87 F	0.60 R
53.2	60.33 c	27.32 E	-0.13 F	-2298.32 A	5.74 F	0.75 R
	60.33 c	27.29 E	0.15 U	-2298.34 A	5.69 F	0.75 R
47.7	62.83 c	27.90 E	0.15 U	-2458.99 A	6.40 F	0.80 R
	62.83 c	27.90 E	0.16 U	-2459.01 A	6.42 F	0.80 R
35.8	66.20 c	29.31 E	0.16 U	-2817.48 E	-8.03 U	0.87 R
	66.20 c	29.32 E	0.18 U	-2817.49 E	-8.03 U	0.87 R
23.9	69.80 c	30.88 E	0.18 U	-3189.91 E	-10.14 U	0.92 R
	69.80 a	30.87 E	0.17 U	-3189.91 E	-10.13 U	0.92 R
11.9	73.66 a	32.56 E	0.17 U	-3576.83 E	-12.19 U	0.95 R
	73.66 c	32.56 E	0.17 U	-3576.82 E	-12.19 U	0.95 R
	77.61 c	34.53 E	0.17 U	-3980.22 E	-14.22 U	0.96 R
base reaction	77.61 c	-34.53 E	-0.17 U	3980.22 E	14.22 U	-0.96 R

COMPLIANCE WITH 4.8.2 & 4.5.4

ELEV ft	AXIAL	BENDING	SHEAR + TORSIONAL	TOTAL	SATISFIED	D/t(w/t)	MAX ALLOWED
149.00	0.02a	0.00L	0.02P	0.02i	YES	7.55A	45.2
133.08	0.03a	0.42D	0.03P	0.43D	YES	9.61A	45.2
	0.03a	0.42C	0.03U	0.43D	YES	9.61A	45.2
117.17	0.03a	0.74D	0.03U	0.75D	YES	11.67A	45.2
	0.03j	0.74D	0.03W	0.75D	YES	11.67A	45.2
101.25	0.02j	0.90D	0.02W	0.91D	YES	13.73A	45.2
	0.02j	0.76D	0.02I	0.77D	YES	11.15A	45.2
97.25	0.02j	0.78F	0.02I	0.79F	YES	11.58A	45.2
	0.02a	0.82D	0.02A	0.82D	YES	11.29A	45.2
82.58	0.02a	0.87A	0.02A	0.88A	YES	12.87A	45.2
	0.02c	0.87A	0.02E	0.88A	YES	12.87A	45.2
67.92	0.02c	0.89A	0.02E	0.90A	YES	14.46A	45.2
	0.02c	0.89A	0.02E	0.90A	YES	14.46A	45.2
53.25	0.02c	0.90A	0.02E	0.91A	YES	16.04A	45.2
	0.02c	0.90A	0.02E	0.91A	YES	16.04A	45.2

131871A

47.75	0.02c	0.91A	0.02E	0.92A	YES	16.63A	45.2
	0.02c	0.94A	0.02E	0.95A	YES	16.28A	45.2
35.81	0.02c	0.96E	0.02E	0.96E	YES	17.57A	45.2
	0.02c	0.96E	0.02E	0.96E	YES	17.57A	45.2
23.87	0.02c	0.97E	0.02E	0.98E	YES	18.86A	45.2
	0.02a	0.97E	0.02E	0.98E	YES	18.86A	45.2
11.94	0.02a	0.98E	0.02E	0.99E	YES	20.15A	45.2
	0.02c	0.98E	0.02E	0.99E	YES	20.15A	45.2
0.00	0.02c	0.99E	0.02E	1.00E	YES	21.44A	45.2

MAXIMUM LOADS ONTO FOUNDATION(w.r.t. wind direction)

DOWN	SHEAR,w.r.t.WIND.DIR	MOMENT,w.r.t.WIND.DIR	TORSION
kip	ALONG	ALONG	ft-kip
	ACROSS	ACROSS	
	kip	ft-kip	ft-kip
77.61	34.53	0.17	-3980.22
c	E	U	E
			-14.22
			U
			0.96
			R

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150' Monopole / Greenup, KY

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

* Only 1 condition(s) shown in full

LOADING CONDITION A

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

LOADS ON POLE

LOAD TYPE	ELEV ft	APPLY..LOAD..AT		LOAD AZI	.....FORCES.....		.....MOMENTS.....	
		RADIUS ft	AZI		HORIZ kip	DOWN kip	VERTICAL ft-kip	TORSNAL ft-kip
C	149.000	0.00	0.0	0.0	2.4838	4.0000	0.0000	0.0000
C	147.000	0.00	0.0	0.0	0.0000	1.8346	0.0000	0.0000
C	139.000	0.00	0.0	0.0	0.0000	1.7347	0.0000	0.0000
C	139.000	0.00	0.0	0.0	2.4733	4.0000	0.0000	0.0000
D	149.000	0.00	180.0	0.0	0.0125	0.0610	0.0000	0.0000
D	133.083	0.00	180.0	0.0	0.0125	0.0610	0.0000	0.0000
D	133.083	0.00	180.0	0.0	0.0149	0.0732	0.0000	0.0000
D	117.167	0.00	180.0	0.0	0.0149	0.0732	0.0000	0.0000
D	117.167	0.00	180.0	0.0	0.0174	0.0853	0.0000	0.0000
D	101.250	0.00	180.0	0.0	0.0174	0.0853	0.0000	0.0000
D	101.250	0.00	180.0	0.0	0.0190	0.2023	0.0000	0.0000
D	97.250	0.00	180.0	0.0	0.0190	0.2023	0.0000	0.0000
D	97.250	0.00	180.0	0.0	0.0201	0.1179	0.0000	0.0000
D	82.583	0.00	180.0	0.0	0.0201	0.1179	0.0000	0.0000
D	82.583	0.00	180.0	0.0	0.0228	0.1314	0.0000	0.0000
D	67.917	0.00	180.0	0.0	0.0228	0.1314	0.0000	0.0000
D	67.917	0.00	180.0	0.0	0.0257	0.1449	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0257	0.1449	0.0000	0.0000
D	53.250	0.00	180.0	0.0	0.0279	0.3057	0.0000	0.0000
D	47.750	0.00	180.0	0.0	0.0279	0.3057	0.0000	0.0000
D	47.750	0.00	180.0	0.0	0.0294	0.1596	0.0000	0.0000
D	35.812	0.00	180.0	0.0	0.0294	0.1596	0.0000	0.0000
D	35.812	0.00	180.0	0.0	0.0324	0.1706	0.0000	0.0000
D	23.875	0.00	180.0	0.0	0.0324	0.1706	0.0000	0.0000
D	23.875	0.00	180.0	0.0	0.0351	0.1816	0.0000	0.0000
D	11.937	0.00	180.0	0.0	0.0351	0.1816	0.0000	0.0000
D	11.937	0.00	180.0	0.0	0.0411	0.1926	0.0000	0.0000

131871A

D 0.000 0.00 180.0 0.0 0.0411 0.1926 0.0000 0.0000

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MAXIMUM POLE DEFORMATIONS CALCULATED(w.r.t. wind direction)

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MAST ELEV ft	DEFLECTIONS (ft)			ROTATIONS (deg)		
	HORIZONTAL ALONG	ACROSS	DOWN	TILT ALONG	ACROSS	TWIST
149.0	3.98C	-0.01K	0.15A	3.09C	-0.01K	0.00K
133.1	3.14C	-0.01K	0.11A	2.94C	-0.01K	0.00K
117.2	2.37C	-0.01K	0.07A	2.56C	-0.01K	0.00K
101.2	1.72C	-0.01K	0.04A	2.11C	-0.01K	0.00K
97.2	1.58C	-0.01K	0.04A	2.02C	-0.01K	0.00K
82.6	1.11C	0.00K	0.02A	1.65C	-0.01K	0.00K
67.9	0.73C	0.00K	0.01A	1.31C	0.00K	0.00K
53.2	0.44C	0.00K	0.01A	0.99C	0.00K	0.00K
47.7	0.35C	0.00K	0.00A	0.88C	0.00K	0.00K
35.8	0.19C	0.00K	0.00A	0.64C	0.00K	0.00K
23.9	0.08C	0.00K	0.00A	0.41C	0.00K	0.00K
11.9	0.02C	0.00K	0.00A	0.20C	0.00K	0.00K
0.0	0.00A	0.00A	0.00A	0.00A	0.00A	0.00A

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MAXIMUM POLE FORCES CALCULATED(w.r.t. to wind direction)

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MAST ELEV ft	TOTAL AXIAL kip	SHEAR.w.r.t.WIND.DIR		MOMENT.w.r.t.WIND.DIR		TORSION ft-kip
		ALONG kip	ACROSS kip	ALONG ft-kip	ACROSS ft-kip	
149.0	4.00 C	2.48 A	0.00 C	0.00 K	0.00 K	0.00 K
133.1	12.54 C	5.16 A	0.00 C	-62.50 D	-0.01 K	0.00 K
117.2	13.70 A	5.39 D	0.00 L	-156.31 D	-0.02 K	-0.01 K
101.2	15.06 A	5.67 F	0.00 E	-253.53 D	-0.03 K	-0.01 K
97.2	15.87 A	5.78 L	0.01 E	-278.61 L	-0.05 K	-0.01 K
82.6	17.60 K	6.07 C	-0.05 K	-373.21 C	0.62 K	-0.04 K
67.9	19.53 C	6.42 C	-0.04 K	-471.78 C	1.20 K	-0.06 K
53.2	21.65 C	6.79 C	-0.04 K	-574.61 C	1.77 K	-0.07 K
47.7	23.33 C	6.95 C	-0.04 K	-614.40 C	2.00 K	-0.08 K
35.8	25.24 C	7.29 C	-0.04 K	-703.17 C	2.48 K	-0.08 K
23.9	27.27 C	7.68 C	-0.04 K	-795.39 C	2.93 K	-0.09 K
11.9	29.44 C	8.10 C	-0.04 K	-891.37 C	3.39 K	-0.09 K
base	31.74 C	8.59 C	-0.04 K	-991.64 C	3.84 K	-0.09 K

Round Base Plate and Anchor Rods, per ANSI/TIA 222-G

Pole Data

Diameter: 49.340 in (flat to flat)
Thickness: 0.375 in
Yield (Fy): 65 ksi
of Sides: 18 "0" IF Round
Strength (Fu): 80 ksi

Reactions

Moment, Mu: 3980.22 ft-kips
Axial, Pu: 38.07 kips
Shear, Vu: 34.53 kips

Anchor Rod Data

Quantity: 14
Diameter: 2.25 in
Rod Material: A615
Strength (Fu): 100 ksi
Yield (Fy): 75 ksi
BC Diam. (in): 56 BC Override:

Anchor Rod Results

Maximum Rod (Pu+ Vu/η): 251.3 Kips
Allowable $\Phi \cdot R_{nt}$: 260.0 Kips (per 4.9.9)
Anchor Rod Interaction Ratio: **96.7% Pass**

Plate Data

Diameter (in): 61.75 Dia. Override:
Thickness: 2.25 in
Yield (Fy): 50 ksi
Eff Width/Rod: 11.19 in
Drain Hole: 2.625 in. diameter
Drain Location: 22.5 in. center of pole to center of drain hole
Center Hole: 37 in. diameter

Base Plate Results

Base Plate (Mu/Z): 37.7 ksi
Allowable $\Phi \cdot F_y$: 45.0 ksi (per AISC)
Base Plate Interaction Ratio: **83.7% Pass**

FI CHECKLIST

CONSTRUCTION/INSTALLATION INSPECTIONS AND TESTING REQUIRED (COMPLETED BY EOR)	REPORT ITEM
PRE-CONSTRUCTION	
X	FI CHECKLIST DRAWING
X	PACKING SLIPS
ADDITIONAL TESTING AND INSPECTIONS:	
CONSTRUCTION	
X	CONSTRUCTION INSPECTIONS
X	CONTINUOUS FOUNDATION INSPECTIONS
X	CONCRETE COMP. STRENGTH AND SLUMP TESTS
NA	GROUT COMP STRENGTH (ASTM C109)
NA	POST INSTALLED ANCHOR ROD VERIFICATION
NA	BASE PLATE GROUT VERIFICATION
NA	EARTHWORK: LIFT AND DENSITY
X	GC AS-BUILT DOCUMENTS
ADDITIONAL TESTING AND INSPECTIONS:	
POST-CONSTRUCTION	
X	FI INSPECTOR REDLINE OR RECORD DRAWING(S)
NA	POST INSTALLED ANCHOR ROD PULL-OUT TESTING
X	PHOTOGRAPHS
ADDITIONAL TESTING AND INSPECTIONS:	

NOTE: X DENOTES A DOCUMENT NEEDED FOR THE REPORT
 NA DENOTES A DOCUMENT THAT IS NOT REQUIRED FOR THE REPORT

FOUNDATION INSPECTION NOTES:

GENERAL

THE FOUNDATION INSPECTION (FI) IS A VISUAL INSPECTION OF THE FOUNDATION AND A REVIEW OF CONSTRUCTION INSPECTIONS AND OTHER REPORTS TO ENSURE THE INSTALLATION WAS CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, NAMELY THE FOUNDATION DESIGN DRAWINGS, AS DESIGNED BY THE ENGINEER OF RECORD (EOR).

THE FI IS TO CONFIRM INSTALLATION CONFIGURATION AND WORKMANSHIP ONLY AND IS NOT A REVIEW OF THE FOUNDATION DESIGN ITSELF, NOR DOES THE FI INSPECTOR TAKE OWNERSHIP OF THE FOUNDATION DESIGN. OWNERSHIP OF THE FOUNDATION DESIGN DRAWINGS EFFECTIVENESS AND INTEGRITY RESIDES WITH THE EOR AT ALL TIMES.

ALL FI'S SHALL BE CONDUCTED BY AN OWNER APPROVED ENGINEERING VENDOR THAT IS APPROVED TO PERFORM WORK FOR THE OWNER.

TO ENSURE THAT THE REQUIREMENTS OF THE FI ARE MET, IT IS VITAL THAT THE GENERAL CONTRACTOR (GC) AND THE FI INSPECTOR BEGIN COMMUNICATING AND COORDINATING AS SOON AS A PO IS RECEIVED. IT IS EXPECTED THAT EACH PARTY WILL BE PROACTIVE IN REACHING OUT TO THE OTHER PARTY IF CONTACT INFORMATION IS NOT KNOWN, CONTACT THE PROJECT CONTACT LISTED ON SHEET T-1.

FI INSPECTOR

THE FI INSPECTOR IS REQUIRED TO CONTACT THE GC AS SOON AS RECEIVING A PO FOR THE FI TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE FI CHECKLIST
- WORK WITH THE GC TO DEVELOP A SCHEDULE FOR ON-SITE FOUNDATION INSPECTIONS.

THE FI INSPECTOR IS RESPONSIBLE FOR COLLECTING ALL GC INSPECTION AND TEST REPORTS, REVIEWING THE DOCUMENTS FOR ADHERENCE TO THE CONTRACT DOCUMENTS, CONDUCTING THE IN-FIELD INSPECTIONS, AND SUBMITTING THE FI REPORT TO THE OWNER.

GENERAL CONTRACTOR

THE GC IS REQUIRED TO CONTACT THE FI INSPECTOR AS SOON AS RECEIVING A PO FOR THE FOUNDATION INSTALLATION OR TURNKEY PROJECT TO, AT A MINIMUM:

- REVIEW THE REQUIREMENTS OF THE FI CHECKLIST.
- WORK WITH THE GC TO DEVELOP A SCHEDULE FOR ON-SITE FOUNDATION INSPECTIONS.
- BETTER UNDERSTAND ALL INSPECTION AND TESTING REQUIREMENTS.

THE GC SHALL PERFORM AND RECORD THE TEST AND INSPECTION RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE FI CHECKLIST.

RECOMMENDATIONS

THE FOLLOWING RECOMMENDATIONS AND SUGGESTIONS ARE OFFERED TO ENHANCE THE EFFICIENCY AND EFFECTIVENESS OF DELIVERING A FI REPORT:

- IT IS SUGGESTED THAT THE GC PROVIDE A MINIMUM OF 5 BUSINESS DAYS NOTICE, PREFERABLY 10, TO THE FI INSPECTOR AS TO WHEN THE SITE WILL BE READY FOR THE FI TO BE CONDUCTED.
- THE GC AND FI INSPECTOR COORDINATE CLOSELY THROUGHOUT THE ENTIRE PROJECT.
- WHEN POSSIBLE, IT IS PREFERRED TO HAVE THE GC AND FI INSPECTOR ON-SITE DURING THE FI TO HAVE ANY DEFICIENCIES CORRECTED DURING THE INITIAL FI. THEREFORE, THE GC MAY CHOOSE TO COORDINATE THE FI CAREFULLY TO ENSURE ALL CONSTRUCTION FACILITIES ARE AT THEIR DISPOSAL WHEN THE FI INSPECTOR IS ON SITE.

CANCELLATION OR DELAYS IN SCHEDULED FI

IF THE GC AND FI INSPECTOR AGREE TO A DATE ON WHICH THE FI WILL BE CONDUCTED, AND EITHER PARTY CANCELS OR DELAYS, THE OWNER SHALL NOT BE RESPONSIBLE FOR ANY COSTS, FEES, LOSS OF DEPOSITS, AND/OR OTHER PENALTIES RELATED TO THE CANCELLATION OR DELAY INCURRED BY EITHER PARTY FOR ANY TIME (E.G. TRAVEL AND LODGING, COSTS OF KEEPING EQUIPMENT ON-SITE, ETC.). IF THE OWNER CONTRACTS DIRECTLY FOR A THIRD PARTY FI EXCEPTIONS MAY BE MADE IN THE EVENT THAT THE DELAY/CANCELLATION IS CAUSED BY WEATHER OR OTHER CONDITIONS THAT MAY COMPROMISE THE SAFETY OF THE PARTIES INVOLVED.

CORRECTION OF FAILING FI'S

IF THE FOUNDATION INSTALLATION WOULD FAIL THE FI ("FAILED FI"), THE GC SHALL WORK WITH THE OWNER TO COORDINATE A REMEDIATION PLAN IN ONE OF TWO WAYS:

- CORRECT FAILING ISSUES TO COMPLY WITH THE SPECIFICATIONS CONTAINED IN THE ORIGINAL CONTRACT DOCUMENTS AND COORDINATE A SUPPLEMENT FI.
- OR, WITH THE OWNER'S APPROVAL, THE GC MAY WORK WITH THE EOR TO RE-ANALYZE THE FOUNDATION USING THE AS-BUILT CONDITION.

FI VERIFICATION INSPECTIONS

THE OWNER RESERVES THE RIGHT TO CONDUCT A FI VERIFICATION INSPECTION TO VERIFY THE ACCURACY AND COMPLETENESS OF PREVIOUSLY COMPLETED FI INSPECTION(S) ON FOUNDATION PROJECTS.

ALL VERIFICATION INSPECTIONS SHALL BE HELD TO THE SAME SPECIFICATIONS AND REQUIREMENTS IN THE CONTRACT DOCUMENTS.

VERIFICATION INSPECTION MAY BE CONDUCTED BY AN INDEPENDENT INSPECTION FIRM AFTER A FOUNDATION PROJECT IS COMPLETED, AS MARKED BY THE DATE OF AN ACCEPTED "PASSING FI" OR "PASS AS NOTED FI" REPORT FOR THE ORIGINAL PROJECT.

REQUIRED PHOTOS

BETWEEN THE GC AND THE FI INSPECTOR THE FOLLOWING PHOTOGRAPHS, AT A MINIMUM, ARE TO BE TAKEN AND INCLUDED IN THE FI REPORT:

- PRE-CONSTRUCTION GENERAL SITE CONDITION
- PHOTOGRAPHS DURING THE CONSTRUCTION AND FOUNDATION INSPECTION:
 - RAW MATERIALS
 - PHOTOS OF ALL CRITICAL DETAILS
 - REINFORCING BAR SIZES AND CONFIGURATIONS
 - ALL RELEVANT MEASUREMENTS
 - FORM WORK DIMENSIONS AND LOCATIONS
 - PRE-CONCRETE INSTALLATION PHOTOS
 - DURING CONCRETE INSTALLATION PHOTOS
- POST CONSTRUCTION PHOTOGRAPHS
 - FINAL IN FIELD CONDITION

PLANS PREPARED FOR:



8051 CONGRESS AVENUE
 BOCA RATON, FL 33487-1307
 OFFICE: (800) 487-7483

PROJECT INFORMATION:

**GREENUP
 SITE #: KY02128**

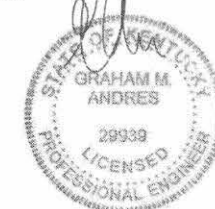
311 SOUTH LAUREL STREET
 GREENUP, KY 41144
 (GREENUP COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603-5263
 OFFICE: (919) 661-6351
 www.tepgroup.net

SEAL:



February 23, 2016

0	02-23	IG	FOUNDATION DRAWINGS				
REV	DATE		ISSUED FOR:				
DRAWN BY: EAJ		CHECKED BY: TRD					

SHEET TITLE:
**FOUNDATION
 INSPECTION
 CHECKLIST & NOTES**

SHEET NUMBER: N-1	REVISION: 0
TEP #: 64594-30916	

GENERAL NOTES:

1. ALL REFERENCES TO THE OWNER IN THESE DOCUMENTS SHALL BE CONSIDERED SBA COMMUNICATIONS OR ITS DESIGNATED REPRESENTATIVE.
2. ALL WORK PRESENTED ON THESE DRAWINGS MUST BE COMPLETED BY THE CONTRACTOR UNLESS NOTED OTHERWISE. THE CONTRACTOR MUST HAVE CONSIDERABLE EXPERIENCE IN PERFORMANCE OF WORK SIMILAR TO THAT DESCRIBED HEREIN. BY ACCEPTANCE OF THIS ASSIGNMENT, THE CONTRACTOR IS ATTESTING THAT HE DOES HAVE SUFFICIENT EXPERIENCE AND ABILITY, THAT HE IS KNOWLEDGEABLE OF THE WORK TO BE PERFORMED AND THAT HE IS PROPERLY LICENSED AND PROPERLY REGISTERED TO DO THIS WORK IN THE STATE OF KENTUCKY.
3. WORK SHALL BE COMPLETED IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE, 2012 EDITION.
4. UNLESS SHOWN OR NOTED OTHERWISE ON THE CONTRACT DRAWINGS, OR IN THE SPECIFICATIONS, THE FOLLOWING NOTES SHALL APPLY TO THE MATERIALS LISTED HEREIN, AND TO THE PROCEDURES TO BE USED ON THIS PROJECT.
5. ALL HARDWARE ASSEMBLY MANUFACTURER'S INSTRUCTIONS SHALL BE FOLLOWED EXACTLY AND SHALL SUPERSEDE ANY CONFLICTING NOTES ENCLOSED HEREIN.
6. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE TO INSURE THE SAFETY OF THE STRUCTURE AND ITS COMPONENT PARTS DURING ERECTION AND/OR FIELD MODIFICATIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF TEMPORARY BRACING GUYS OR TIE DOWNS THAT MAY BE NECESSARY. SUCH MATERIAL SHALL BE REMOVED AND SHALL REMAIN THE PROPERTY OF THE CONTRACTOR AFTER THE COMPLETION OF THE PROJECT.
7. ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHOWN ON THE DRAWINGS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING ANY MATERIALS ORDERING, FABRICATION OR CONSTRUCTION WORK ON THIS PROJECT. CONTRACTOR SHALL NOT SCALE CONTRACT DRAWINGS IN LIEU OF FIELD VERIFICATION. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND THE OWNER'S ENGINEER. THE DISCREPANCIES MUST BE RESOLVED BEFORE THE CONTRACTOR IS TO PROCEED WITH THE WORK. THE CONTRACT DOCUMENTS DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES. OBSERVATION VISITS TO THE SITE BY THE OWNER AND/OR THE ENGINEER SHALL NOT INCLUDE INSPECTION OF THE PROTECTIVE MEASURES OR THE PROCEDURES.
8. ALL MATERIALS AND EQUIPMENT FURNISHED SHALL BE NEW AND OF GOOD QUALITY, FREE FROM FAULTS AND DEFECTS AND IN CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY AND ALL SUBSTITUTIONS MUST BE PROPERLY APPROVED AND AUTHORIZED IN WRITING BY THE OWNER AND ENGINEER PRIOR TO INSTALLATION. THE CONTRACTOR SHALL FURNISH SATISFACTORY EVIDENCE AS TO THE KIND AND QUALITY OF THE MATERIALS AND EQUIPMENT BEING SUBSTITUTED.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR INSURING THAT THIS PROJECT AND RELATED WORK COMPLIES WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL SAFETY CODES AND REGULATIONS GOVERNING THIS WORK.
10. ACCESS TO THE PROPOSED WORK SITE MAY BE RESTRICTED. THE CONTRACTOR SHALL COORDINATE INTENDED CONSTRUCTION ACTIVITY, INCLUDING WORK SCHEDULE AND MATERIALS ACCESS, WITH THE RESIDENT LEASING AGENT FOR APPROVAL.
11. BILL OF MATERIALS AND PART NUMBERS LISTED ON CONSTRUCTION DRAWINGS ARE INTENDED TO AID CONTRACTOR/OWNER. CONTRACTOR/OWNER SHALL VERIFY PARTS AND QUANTITIES WITH MANUFACTURER PRIOR TO BIDDING AND/OR ORDERING MATERIALS.
12. CONTRACTOR SHALL SECURE ALL NECESSARY PERMITS FOR THIS PROJECT FROM ALL APPLICABLE GOVERNMENTAL AGENCIES.
13. ALL PERMITS THAT MUST BE OBTAINED ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR WILL BE RESPONSIBLE FOR ABIDING BY ALL CONDITIONS AND REQUIREMENTS OF THE PERMITS.
14. 24 HOURS PRIOR TO THE BEGINNING OF ANY CONSTRUCTION, THE CONTRACTOR MUST NOTIFY THE APPLICABLE JURISDICTIONAL (STATE, COUNTY OR CITY) ENGINEER.
15. THE CONTRACTOR SHALL REWORK (DRY, SCARIFY, ETC.) ALL MATERIAL NOT SUITABLE FOR SUB-GRADE IN ITS PRESENT STATE AFTER REWORKING. IF THE MATERIAL REMAINS UNSUITABLE, THE CONTRACTOR SHALL UNDERCUT THIS MATERIAL AND REPLACE WITH APPROVED MATERIAL. ALL SUB-GRADES SHALL BE PROOF-ROLLED WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK PRIOR TO PAVING ANY SOFT MATERIAL SHALL BE REWORKED OR REPLACED.
16. THE CONTRACTOR IS REQUIRED TO MAINTAIN ALL PIPES, DITCHES, AND OTHER DRAINAGE STRUCTURES FREE FROM OBSTRUCTION UNTIL WORK IS ACCEPTED BY THE OWNER. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO MAINTAIN DRAINAGE STRUCTURE IN OPERABLE CONDITION.
17. ALL MATERIALS AND WORKMANSHIP SHALL BE WARRANTED FOR ONE YEAR FROM ACCEPTANCE DATE.
18. ALL TOWER DIMENSIONS SHALL BE VERIFIED WITH THE PLANS (LATEST REVISION) PRIOR TO COMMENCING CONSTRUCTION. NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE DISCOVERED. THE OWNER SHALL HAVE A SET OF APPROVED PLANS AVAILABLE AT THE SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. A DESIGNATED RESPONSIBLE EMPLOYEE SHALL BE AVAILABLE FOR CONTACT BY GOVERNING AGENCY INSPECTORS.

FOUNDATION NOTES:

GENERAL NOTES:

1. FOUNDATION INSTALLATION SHALL BE SUPERVISED BY PERSONNEL KNOWLEDGEABLE AND EXPERIENCED WITH THE PROPOSED FOUNDATION TYPE. CONSTRUCTION SHALL BE IN ACCORDANCE WITH GENERALLY ACCEPTED PRACTICES AND IN A GOOD WORKMANLIKE MANNER.
2. CONTRACTOR SHALL VERIFY DIMENSIONS WITH ORIGINAL DRAWINGS.
3. FOR FOUNDATION AND ANCHOR TOLERANCES, SEE ORIGINAL DRAWINGS.
4. FOUNDATION DESIGN ASSUMES LEVEL GRADE AT THE SITE.
5. THE FOUNDATION DESIGN IS IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRINCIPLES AND PRACTICES WITHIN THE LIMITS OF THE SUBSURFACE DATA PROVIDED.
6. FOUNDATION DESIGN MODIFICATIONS MAY BE REQUIRED IN THE EVENT THE DESIGN PARAMETERS ARE NOT APPLICABLE FOR THE SUBSURFACE CONDITIONS ENCOUNTERED DURING CONSTRUCTION.
7. THE FOUNDATION DESIGN ASSUMES FIELD INSPECTIONS WILL BE PERFORMED TO VERIFY THAT CONSTRUCTION MATERIALS, INSTALLATION METHODS, AND ASSUMED DESIGN PARAMETERS ARE ACCEPTABLE BASED ON THE CONDITIONS AT THE SITE.
8. THE FOUNDATION DESIGN ASSUMES NO CONSTRUCTION JOINTS. HOWEVER, CONSTRUCTION JOINTS SHALL BE PERMITTED UPON APPROVAL BY THE OWNER/ENGINEER.

EXCAVATION:

1. WORK SHALL BE IN ACCORDANCE WITH LOCAL CODES AND SAFETY REGULATIONS. PROCEDURES FOR THE PROTECTION OF EXCAVATIONS, EXISTING CONSTRUCTION, AND UTILITIES SHALL BE ESTABLISHED PRIOR TO BEGINNING WORK.
2. INTIMATE CONTACT BETWEEN THE CONCRETE AND THE SOIL WALLS OF THE DRILLED SHAFT IS ESSENTIAL. THE CONCRETE SHALL BE APPROPRIATELY VIBRATED DURING CONSTRUCTION.
3. THE SIDES OF THE EXCAVATION SHALL BE ROUGH AND FREE OF LOOSE CUTTINGS.
4. LOOSE MATERIAL TO BE REMOVED FROM THE BOTTOM OF EXCAVATION PRIOR TO CONCRETE PLACEMENT.
5. DRILLING FLUID, IF USED, SHALL BE FULLY DISPLACED BY CONCRETE AND SHALL NOT BE DETRIMENTAL TO THE CONCRETE OR SURROUNDING SOIL. CONTAMINATED CONCRETE SHALL BE REMOVED AND REPLACED WITH FRESH CONCRETE.

REINFORCING STEEL:

1. THE REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615, GRADE 60. IT SHALL BE DEFORMED AND SPLICES SHALL NOT BE ALLOWED UNLESS OTHERWISE NOTED.
2. WELDING IS PROHIBITED ON REINFORCING STEEL AND EMBEDMENTS.
3. REINFORCING CAGES SHALL BE BRACED TO RETAIN PROPER DIMENSIONS DURING HANDLING AND THROUGHOUT PLACEMENT OF CONCRETE. WHEN TEMPORARY CASING IS UTILIZED, BRACING SHALL BE ADEQUATE TO RESIST FORCES OCCURRING FROM FLOWING CONCRETE DURING CASING EXTRACTION.
4. SPACERS SHALL BE ATTACHED INTERMITTENTLY THROUGHOUT THE ENTIRE LENGTH OF TIEBACK REINFORCING TO INSURE CONCENTRIC PLACEMENT OF CAGES IN EXCAVATIONS.
5. CLASS B LAP SPLICES PER ACI 318, SHALL BE USED TO SPLICE VERTICAL REINFORCING BARS.
6. MINIMUM CONCRETE COVER FOR REINFORCEMENT SHALL BE 3" UNLESS OTHERWISE NOTED. APPROVED SPACERS SHALL BE USED TO INSURE A 3" MINIMUM COVER ON REINFORCEMENT.
7. THE CONCRETE COVER FROM THE TOP OF THE FOUNDATION TO THE ENDS OF THE VERTICAL REINFORCEMENT SHALL NOT EXCEED 4" NOR BE LESS THAN 2".
8. THE CONCRETE COVER FROM THE BOTTOM OF THE FOUNDATION TO THE ENDS OF THE VERTICAL REINFORCEMENT SHALL NOT EXCEED 4" NOR BE LESS THAN 3".

CONCRETE:

1. WORK SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF THE ACI-318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
2. THE CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI IN 28-DAYS.
3. PROPORTIONS OF CONCRETE MATERIALS SHALL BE SUITABLE FOR THE INSTALLATION METHOD UTILIZED AND SHALL RESULT IN DURABLE CONCRETE FOR RESISTANCE TO LOCAL ANTICIPATED AGGRESSIVE ACTIONS. THE DURABILITY REQUIREMENTS OF ACI-318 SHALL BE SATISFIED BASED ON THE CONDITIONS EXPECTED AT THE SITE.
4. CONCRETE SHALL BE PLACED IN A MANNER THAT WILL PREVENT SEGREGATION OF CONCRETE MATERIALS, INFILTRATION OF WATER OR SOIL, AND OTHER OCCURRENCES THAT MAY DECREASE THE STRENGTH OR DURABILITY OF THE FOUNDATION.
5. FREE FALL CONCRETE MAY BE USED PROVIDED FALL IS VERTICAL DOWN WITHOUT HITTING THE SIDES OF THE EXCAVATION, FORMWORK, REINFORCING BARS, FORM TIES, CAGE BRACING, OR OTHER OBSTRUCTIONS. UNDER NO CIRCUMSTANCES SHALL CONCRETE FALL THROUGH WATER.
6. THE MAXIMUM SIZE OF THE AGGREGATE SHALL NOT EXCEED A SIZE SUITABLE FOR THE INSTALLATION METHOD UTILIZED OR 1/3-CLEAR DISTANCE BEHIND OR BETWEEN REINFORCING. THE MAXIMUM SIZE MAY BE INCREASED TO 2/3-CLEAR DISTANCE PROVIDED WORKABILITY AND METHODS OF CONSOLIDATION SUCH AS VIBRATING WILL PREVENT HONEYCOMBS AND VOIDS.
7. A TEMPORARY PROTECTIVE STEEL CASING WILL BE REQUIRED TO KEEP THE SHAFT OPEN DURING CONSTRUCTION AND INSPECTIONS PRIOR TO PLACING CONCRETE. THIS CASING SHOULD BE EXTRACTED AS THE CONCRETE IS PLACED.

PLANS PREPARED FOR:



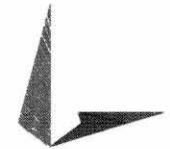
8051 CONGRESS AVENUE
BOCA RATON, FL 33487-1307
OFFICE: (800) 487-7483

PROJECT INFORMATION:

**GREENUP
SITE #: KY02128**

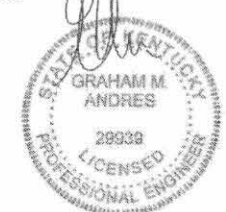
311 SOUTH LAUREL STREET
GREENUP, KY 41144
(GREENUP COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-5263
OFFICE: (919) 661-6351
www.tepgroup.net

SEAL:



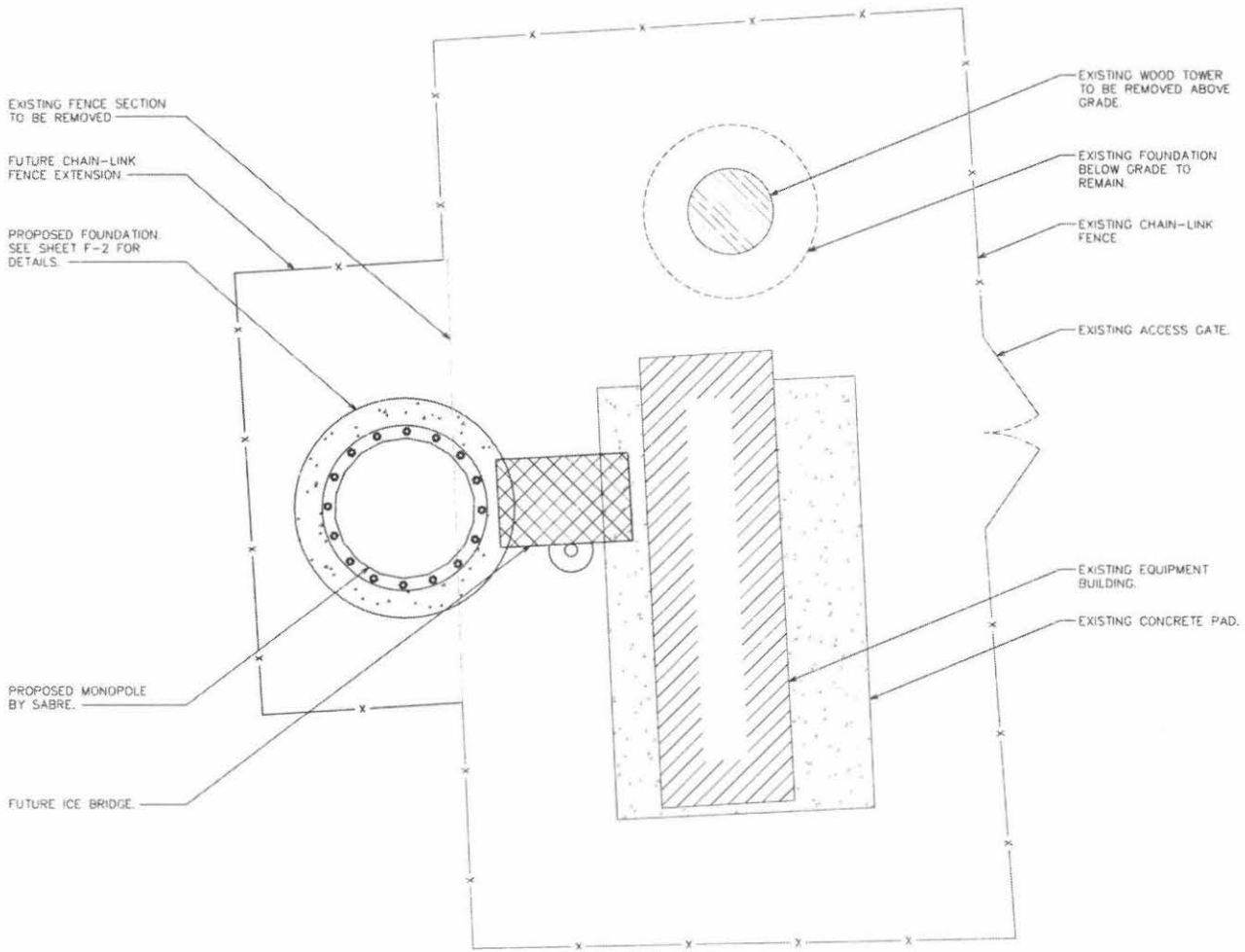
February 23, 2016

0	02 23 16	G	FOUNDATION DRAWINGS
REV	DATE	ISSUED FOR:	
DRAWN BY: CAJ		CHECKED BY: TRS	

SHEET TITLE:

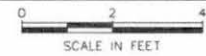
PROJECT NOTES

SHEET NUMBER:	REVISION:
N-2	0
TEP #: 64594.339 G	



COMPOUND DETAIL

SCALE: 1/8" = 1'-0"



PLANS PREPARED FOR:
SBA
 8051 CONGRESS AVENUE
 BDCA RATON, FL 32487-1307
 OFFICE: (800) 487-7483

PROJECT INFORMATION:
GREENUP
SITE #: KY02128
 311 SOUTH LAUREL STREET
 GREENUP, KY 41144
 (GREENUP COUNTY)

PLANS PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
 325 TRYON ROAD
 RALEIGH, NC 27603-3263
 OFFICE: (919) 661-6351
 www.tepgroup.net

SEAL:

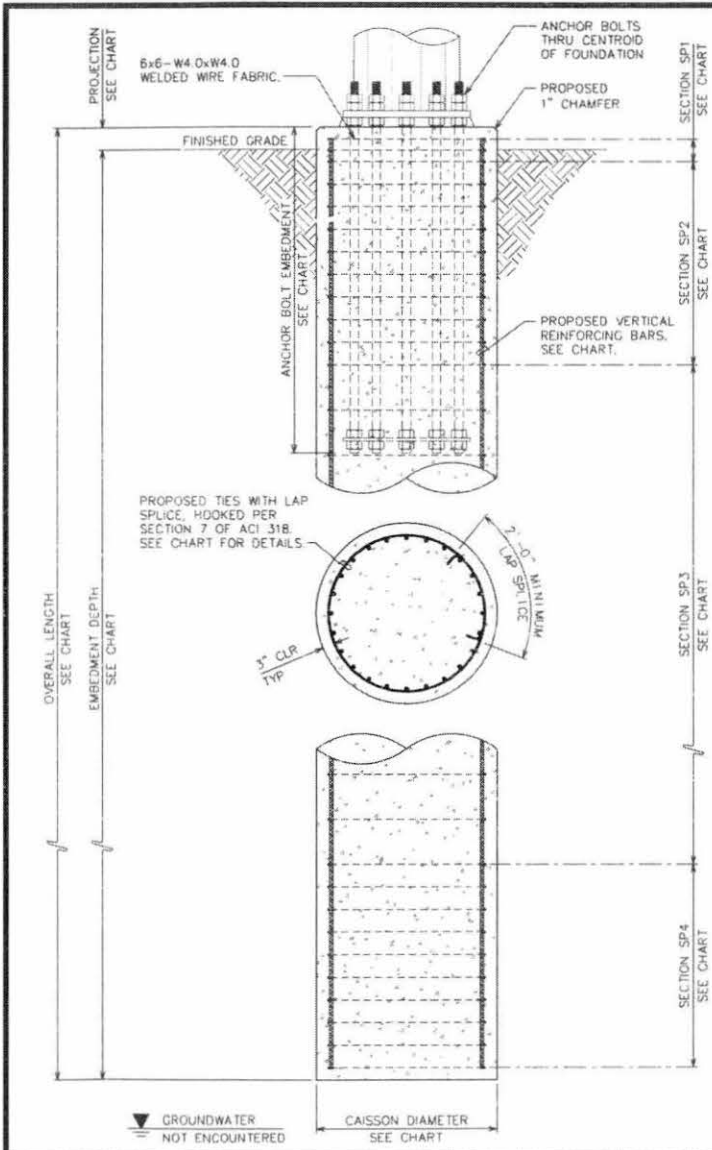
 GRAHAM M. ANDRES
 28839
 LICENSED PROFESSIONAL ENGINEER
 February 25, 2016

REV	DATE	ISSUED FOR
0	02.25.16	FOUNDATION DRAWINGS

DRAWN BY: EAJ | CHECKED BY: TRS

SHEET TITLE:
COMPOUND DETAIL

SHEET NUMBER: **F-1** | REVISION: **0**
 TEP #: 24554-3351 C



FOUNDATION DESIGN

DIAM.	EMBEDMENT DEPTH	PROJECTION ABOVE GRADE	OVERALL LENGTH	CONCRETE VOLUME (CU. YDS.)	VERTICAL R/F		#5 TIES		
					SIZE	QTY.	SECTION	QTY.	SPACING
7'-0"	19'-0"	0'-6"	19'-6"	27.8	#11	30	SP1	3	0'-3"
							SP2	11	0'-6"
							SP3	9	1'-0"
							SP4	8	0'-6"

NOTES:
 1. ANCHOR BOLT SIZE, LENGTH, QUANTITY, AND OTHER BOLT AND BASE PLATE DETAILS ARE SPECIFIED IN THE TOWER MFG'S DRAWINGS. VERIFY PRIOR TO CONSTRUCTION.
 2. ANCHOR BOLTS AND TEMPLATE BY TOWER MFG. TO BE EMBEDDED THROUGH FOUNDATION CENTROID.

ATTENTION

A TEMPORARY PROTECTIVE STEEL CASING WILL BE REQUIRED TO KEEP THE SHAFT OPEN DURING CONSTRUCTION AND INSPECTIONS PRIOR TO PLACING CONCRETE. THE CASING SHOULD BE EXTRACTED AS THE CONCRETE IS PLACED. THE SLURRY SHALL BE KEPT AT A LEVEL AT LEAST 2-FT BGS DURING DRILLING. REFER TO SHEET N-2 FOR TYPICAL INSTALLATION NOTES.

FACTORED DESIGN REACTIONS

AXIAL	38.0 KIPS
SHEAR	35.0 KIPS
MOMENT	3,980 KIP-FT


DESIGN REACTIONS TAKEN FROM THE TOWER DESIGN REPORT REFERENCED ON SHEET T-1. VERIFY PRIOR TO CONSTRUCTION.

ANCHOR BOLT DESIGN

SIZE	QTY.	BOLT CIRCLE	EMBED. (MIN.)	PROJ.
2 1/2" ø x 7'-0" LONG	14	4'-8"	6'-0"	1'-0"

ANCHOR BOLT INFORMATION TAKEN FROM THE TOWER DESIGN REPORT REFERENCED ON SHEET T-1. VERIFY PRIOR TO CONSTRUCTION.

PLANS PREPARED FOR:



8051 CONGRESS AVENUE
 BOCA RATON, FL 33487-1307
 OFFICE: (800) 487-7483

PROJECT INFORMATION:

**GREENUP
 SITE #: KY02128**

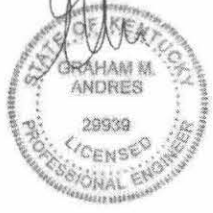
311 SOUTH LAUREL STREET
 GREENUP, KY 41144
 (GREENUP COUNTY)

PLANS PREPARED BY:



TOWER ENGINEERING PROFESSIONALS
 326 TRYON ROAD
 RALEIGH, NC 27603-5263
 OFFICE: (919) 661-5351
 www.tepgroup.net

SEAL:



February 25, 2016

0	02-25-16	FOUNDATION DRAWINGS
REV	DATE	ISSUED FOR

DRAWN BY: EAU | CHECKED BY: TRS

FOUNDATION DETAILS

SHEET NUMBER:	REVISION:
F-2	0
	TEP #: 04594-39916

FOUNDATION DETAIL
 SCALE: N.T.S.

EXHIBIT E

List of Utilities, Corporations, or Persons with Whom the Proposed WCF is Likely to Compete

**Specified
Search**

Market
Code =
BTA197

	Call Sign/Lease ID	Name	FRN	Radio Service	Status	Expiration Date
Pending Application	B197	NSAC, LLC	3768553	BR	Active	3/28/2026
	KNLH252	Cellco Partnership (Verizon)	3290673	CW	Active	4/28/2017
Pending Application	KNLH537	SPRINTCOM, INC. (Sprint)	2315950	CW	Active	4/28/2017
	KNLH538	SunCom Wireless License Company, LLC	3246055	CW	Active	4/28/2017
	WPOJ803	Cellco Partnership (Verizon)	3290673	CW	Active	6/30/2019

Exhibit F

FAA



Mail Processing Center
 Federal Aviation Administration
 Southwest Regional Office
 Obstruction Evaluation Group
 2601 Meacham Boulevard
 Fort Worth, TX 76193

Aeronautical Study No.
 2015-ASO-6817-OE

Issued Date: 06/12/2015

Clinton Papenfuss
 SBA Towers
 5900 Broken Sound Parkway NW
 Boca Raton, FL 33487

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

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

Structure: Antenna Tower KY 02128-A
 Location: Greenup, KY
 Latitude: 38-34-19.42N NAD 83
 Longitude: 82-50-27.58W
 Heights: 651 feet site elevation (SE)
 200 feet above ground level (AGL)
 851 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:

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

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

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed and maintained in accordance with FAA Advisory circular 70/7460-1 K Change 2.

This determination expires on 12/12/2016 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 (816) 329-2523. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2015-ASO-6817-OE.

Signature Control No: 250579029-255034381
Steve Phillips
Specialist

(DNE)

Attachment(s)
Frequency Data
Map(s)

cc: FCC

Frequency Data for ASN 2015-ASO-6817-OE

LOW FREQUENCY	HIGH FREQUENCY	FREQUENCY UNIT	ERP	ERP UNIT
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

TOPO Map for ASN 2015-ASO-6817-OE



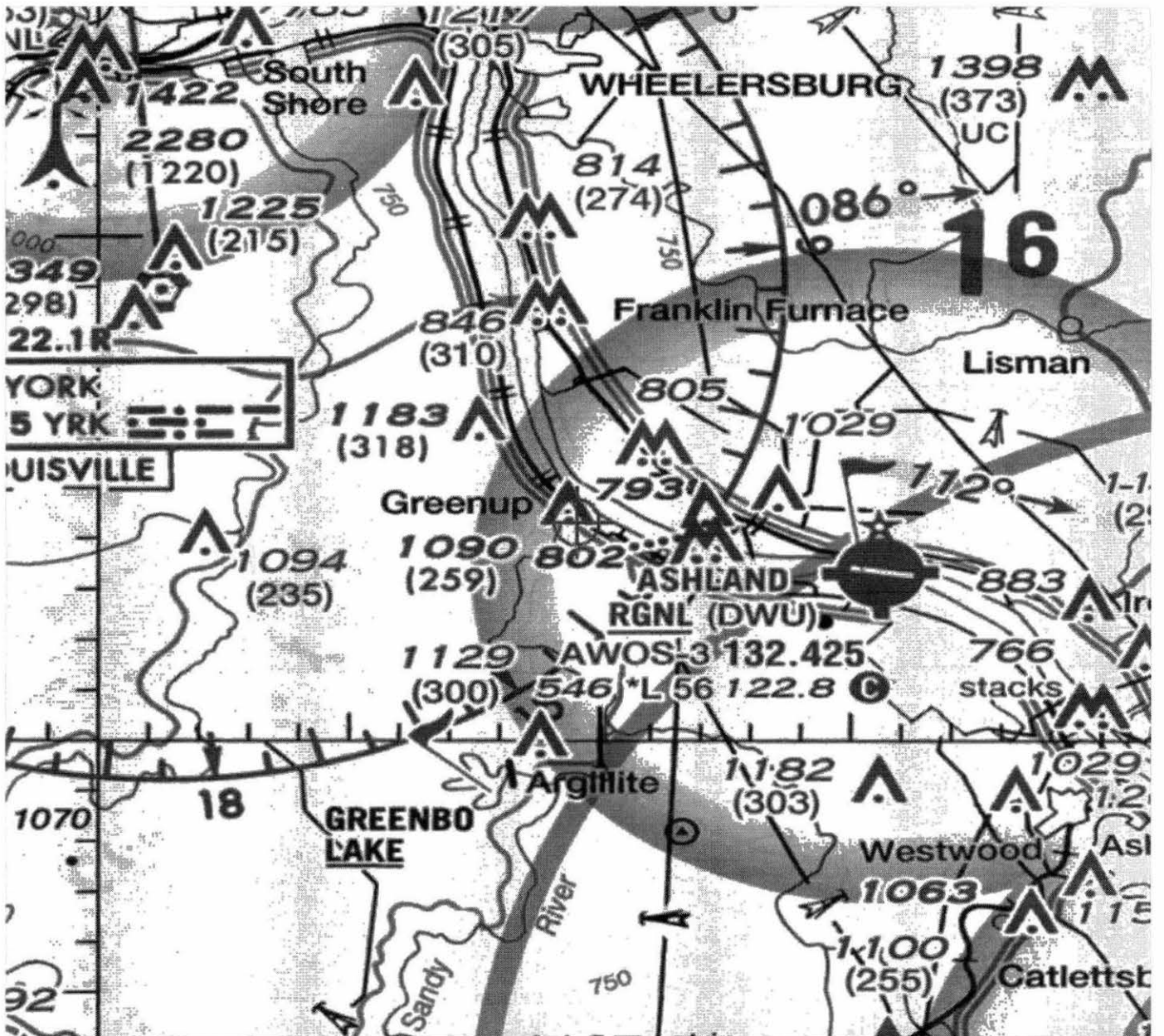


Exhibit G

Kentucky Airport Zoning Commission



Think outside the triangle.

3/2/16

Kentucky Airport Zoning Administrator
John Houlihan
90 Airport Road Building 400
Frankfort, KY 40601
John.houlihan@ky.gov / 502-564-4480

RE: SBA Tower Airport Zoning Exemption Confirmation (SBA Site KY02128 Greenup)

Site Location:
311 S. Laurel St
Greenup, KY 41144
Lat: 38° 34' 19.4200" Long: -82° 50' 27.5800"
Site Elevation: 651 Feet AMSL
Proposal to replace the existing 90' wood pole with a 150' steel monopole

Dear John,

Per our conversation, this letter requests the Kentucky Airport Zoning Administrator confirm and verify that SBA or its contractors is not required to go through a Kentucky Airport Zoning permit process to replace the existing wireless communication tower at the above-referenced coordinates.

If the above information is correct regarding the Kentucky Airport Zoning permit process please sign below, scan and email back to me at pnichols@pbmws.com, or fax a copy attn: Paul Nichols to 317-203-0735. If you have any questions or need additional information please call me direct at 513-233-1884.

Sincerely,

Paul Nichols
Site Specialist
PBM Wireless Services

Based on the above information SBA or its contractors are not required to go through any additional Zoning permit process for replacing the existing wireless tower as described.

Sign:
Print Name: John Houlihan

3-3-16
Date

Paul Nichols

From: Houlihan, John (KYTC) <John.Houlihan@ky.gov>
Sent: Thursday, March 3, 2016 1:33 PM
To: Paul Nichols
Subject: RE: Greenup and Bonita Towers Airport Zoning Exemption
Attachments: PBM Wireless Services.pdf

Please see above attachment. Thank you

Aeronautical Study Result for Bonita

The structure is not in KAZC's jurisdiction and does not require a permit.
Structure's Coordinates: 38°22'57.50"N, 82°39'17.74"W
Structure's Height :90ft
User-submitted ground elevation is 954 ft.
DEM's ground elevation is 951.91 ft (KYAPED 5-FT DEM).

Aeronautical Study Result for Greenup

The structure is not in KAZC's jurisdiction and does not require a permit.
Structure's Coordinates: 38°34'19.42"N, 82°50'27.58"W
Structure's Height :150ft
User-submitted ground elevation is 651 ft.
DEM's ground elevation is 650.73 ft (KYAPED 5-FT DEM).

Kentucky Airport Zoning Commission (KAZC)

John Houlihan, Administrator
90 Airport Road, Building 400
Frankfort, KY 40601
Direct Line 502-564-0310, Cell 502-330-3955, Office 502-564-4480, Fax 502-564-7953

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

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From: Paul Nichols [mailto:pnichols@pbmws.com]
Sent: Thursday, March 03, 2016 11:48 AM
To: Houlihan, John (KYTC) <John.Houlihan@ky.gov>
Subject: RE: Greenup and Bonita Towers Airport Zoning Exemption

Hello John

Per our conversation, please see the attached 2 documents.

Please sign both documents and returning to me preferably via email.

Please reach out with any questions

Thanks

Paul

Paul Nichols
PBM Wireless Services
513-233-1884

Date: **February 19, 2016**

Dwayne Lyerly
SBA Communications Corporation
5640 Dillard Drive, Suite 101
Cary, NC 27518
Office: (919) 803-3427, Ext. 104



Tower Engineering Professionals, Inc.
326 Tryon Road
Raleigh, NC 27603
(919) 661-6351
Geotech@tepgroup.net

Subject: Subsurface Exploration Report

SBA Designation:	Site Number:	KY02128
	Site Name:	Greenup
Engineering Firm Designation:	TEP Project Number:	64594.39916
Site Data:	311 South Laurel Street, Greenup, KY 41144 (Greenup County) Latitude N38° 34' 19.354", Longitude W82° 50' 27.671" 150 Foot - Proposed Monopole Tower	

Dear Mr. Lyerly,

Tower Engineering Professionals, Inc. (TEP) is pleased to submit this "**Subsurface Exploration Report**" to evaluate subsurface conditions in the tower area as they pertain to providing support for the tower foundation.

This report has been prepared in accordance with generally accepted geotechnical engineering practice for specific application to this project. The conclusions in this report are based on the applicable standards of TEP's practice in this geographic area at the time this report was prepared. No other warranty, express or implied, is made.

TEP assumes the current ground surface elevation; tower location and subsequent centerline provided are correct and are consistent with the elevation and centerline to be used for construction of the structure. Should the ground surface elevation be altered and/or the tower location be moved or shifted TEP should be contacted to determine if additional borings are necessary.

The analyses and recommendations submitted herein are based, in part, upon the data obtained from the subsurface exploration. The soil conditions may vary from what is represented in the boring log. While some transitions may be gradual, subsurface conditions in other areas may be quite different. Should actual site conditions vary from those presented in this report, TEP should be provided the opportunity to amend its recommendations as necessary.

We at *Tower Engineering Professionals, Inc.* appreciate the opportunity of providing our continuing professional services to you and SBA Communications Corporation. If you have any questions or need further assistance on this or any other projects please give us a call.

Report Prepared/Reviewed by: Tyrel A. DeShong / John D. Longest, P.E.

Respectfully submitted by:

Andrew T. Haldane, P.E.

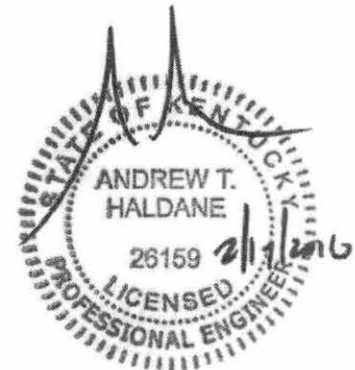


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1) PROJECT DESCRIPTION

Based on the preliminary drawings, it is understood a monopole communications tower will be constructed at the referenced site. The structure loads will be provided by the tower manufacturer.

2) SITE EXPLORATION

The field exploration included the performance of one soil test boring (B-1) to the auger refusal depth of 19 feet (bgs) adjacent to the existing tower compound. The boring was performed by a track mounted drill rig using continuous flight hollow stem augers to advance the hole. Split-spoon samples and Standard Penetration Resistance Values (N-values) were obtained in accordance with ASTM D 1586 at a frequency of four samples in the top 10 feet and one sample every 5 feet thereafter to auger refusal.

The Split-spoon samples were transported to the TEP laboratory where they were classified by a Geotechnical Engineer in general accordance with the Unified Soil Classification System (USCS), using visual-manual identification procedures (ASTM D 2488).

A Boring Location Plan showing the approximate boring location, a Boring Log presenting the subsurface information obtained and a brief guide to interpreting the boring log are included in the Appendix.

3) SITE CONDITIONS

The site is located at 311 South Laurel Street in Greenup, Greenup County, Kentucky. The proposed tower and compound are to be located northeast of an existing wooded area. The ground topography is lightly sloping to moderately sloping.

4) SUBSURFACE CONDITIONS

The following description of subsurface conditions is brief and general. For more detailed information, the individual Boring Log contained in Appendix B - Boring Log may be consulted.

4.1) Soil

The USCS classification of the materials encountered in the boring include SW, SC, Decomposed Shale, and Weathered Sandstone. The Standard Penetration Resistance ("N" Values) recorded in the materials ranged from 7 blows per foot of penetration to 50 blows per 2 inches of penetration.

4.2) Rock

Decomposed Shale was encountered at a depth of 10 feet (bgs) in the boring. Weathered Sandstone was encountered at a depth of 15 feet (bgs) in the boring. Refusal of auger advancement was encountered at a depth of 19 feet (bgs) in the boring.

4.3) Subsurface Water

Subsurface water was not encountered in the boring at the time of drilling. It should be noted the subsurface water level will fluctuate during the year, due to seasonal variations and construction activity in the area.

4.4) Frost

The TIA frost depth for Greenup County, Kentucky is 30 inches.

5) TOWER FOUNDATION DESIGN

Based on the boring data, it is the opinion of TEP that a single drilled shaft can be used to support the new tower, however shallow foundation parameters are being provided. If the drilled shaft foundation option is utilized, design of the foundation should be adjusted to terminate in a known material. The following presents TEP's conclusions and recommendations regarding the foundation types.

5.1) Shallow Foundation

The foundation should bear a minimum of 30 inches below the existing ground surface to penetrate the frost depth and with sufficient depth to withstand the overturning of the tower. To resist the overturning moment, the weight of the concrete and any soil directly above the foundation can be used. The values are based on the current ground surface elevation and bearing in undisturbed native soils.

Based on preliminary site information the site is located on lightly to moderately sloping ground, with approximately 4 feet of elevation change across the fenced compound area, and approximately 3 feet of proposed fill at the tower location. It is recommended that foundation designs account for site grades being raised with excavation spoils or that foundation drawings specify minimum embedment depths based on existing site elevations and factor in ground slopes.

Table 1 - Shallow Foundation Analysis Parameters – Boring B-1

Depth		Soil	Static Bearing ^{1,3} (psf)	Cohesion ² (psf)	Friction Angle ² (degrees)	Effective Unit Weight (pcf)	Friction Factor
Top	Bottom						
0	2.5	SW	6600	-	38	114	0.47
2.5	5	SC	4675	-	32	110	0.39
5	7.5	SC	12825	-	45	115	0.50
7.5	10	SC	13350	-	45	116	0.50

Notes:

- 1) The bearing values provided are net allowable with a minimum factor of safety of 2 with anticipated settlement less than 1 inch. Bearing may be increased by 1/3 for transient loading (e.g. wind or earthquake loading)
- 2) These values should be considered ultimate soil parameters
- 3) The soil values are based on a maximum foundation size of 35 foot squared. If the foundation design size exceeds this dimension TEP should be contacted to re-evaluate soil parameters based on the actual foundation size

5.2) Drilled Shaft Foundation

The following values may be used for design of a drilled shaft foundation. TEP recommends the side frictional and lateral resistance values developed in the top section of the caisson for a depth equal to the half the diameter of the caisson or the frost depth, whichever is greater, be neglected in the calculations. The values are based on the current ground surface elevation. New fill materials should not be considered as a contribution to the foundation depth unless compaction test documentation of suitable fill is provided to TEP for review.

Table 2 – Drilled Shaft Foundation Analysis Parameters

Depth		Soil	Static Bearing ¹ (psf)	Side Frictional Resistance ² (psf)	Cohesion ³ (psf)	Friction Angle ³ (degrees)	Effective Unit Weight (pcf)
Top	Bottom						
0	2.5	SW	4075	20	-	38	114
2.5	5	SC	2725	70	-	32	110
5	7.5	SC	25425	170	-	45	115
7.5	10	SC	34125	240	-	45	116
10	15	Decomposed Shale ⁴	29950	290	-	38	120
15	19	Weathered Sandstone ⁴	67125	490	-	45	125

Notes:

- 1) The bearing values provided are gross allowable with a minimum factor of safety of 2. Bearing may be increased by 1/3 for transient loading (e.g. wind or earthquake loading). If the bearing depth of the foundation is less than 5 diameters below the ground surface the bearing values listed in Table 1 – Shallow Foundation Analysis Parameters should be utilized. Should deeper parameters be necessary for the design of a shallow drilled shaft, TEP should be notified.
- 2) The side frictional resistance values provided are allowable with a minimum factor of safety of 2. Side frictional resistance values may be increased by 1/3 for transient loading (e.g. wind or earthquake loading)
- 3) These values should be considered ultimate soil parameters
- 4) Due to the weathered nature of the rock, cohesion of the rock cannot be relied upon for strength parameters. Indicated layers have been evaluated as a granular material

6) SEISMIC

The Site Class per Section 1613.3.2, of the 2010 International Building Code (2010 IBC) and Chapter 20 of ASCE 7 (2010) based on the site soil conditions is Site Class D.

7) SOIL RESISTIVITY

Soil resistivity was performed at the TEP laboratory in accordance with ASTM G187-05 (Standard Test Method for Measurement of Soil Resistivity Using the Two Electrode Soil Box Method). Test results indicated a result of 6,700 ohms/cm.

8) CONSTRUCTION CONSIDERATIONS - SHALLOW FOUNDATION

8.1) Excavation

The boring data indicates excavation to the expected subgrade level for the shallow foundation will extend through sand. A large tracked excavator should be able to remove the materials with moderate difficulty. A large tracked excavator with rock teeth and/or a pneumatic hammer will be necessary to remove the materials with difficulty. TEP anticipates the depth to the surface of the rock will vary outside of the boring location. Boulders and bedrock outcroppings are common to this geographic region and may also be encountered in the excavation area.

Excavations should be sloped or shored in accordance with local, state and federal regulations, including OSHA (29 CFR Part 1926) excavation trench safety standards. It is the responsibility of the contractor for site safety. This information is provided as a service and under no circumstance should TEP be assumed responsible for construction site safety.

8.2) Foundation Evaluation/Subgrade Preparation

After excavation to the design elevation for the footing, the materials should be evaluated by a Geotechnical Engineer or a representative of the Geotechnical Engineer prior to reinforcement and concrete placement. This evaluation should include probing, shallow hand auger borings and dynamic cone penetrometer testing (ASTM STP-399) to help verify that suitable residual material lies directly under the foundation and to determine the need for any undercut and replacement of unsuitable materials. Loose surficial material should be compacted in the excavation prior to reinforcement and concrete placement to stabilize surface soil that may have become loose during the excavation process. TEP recommends a 6-inch layer of compacted crushed stone be placed just after excavation to aid in surface stability.

8.3) Fill Placement and Compaction

Backfill materials placed above the shallow foundation to the design subgrade elevation should not contain more than 5 percent by weight of organic matter, waste, debris or any otherwise deleterious materials. To be considered for use, backfill materials should have a maximum dry density of at least 100 pounds per cubic foot as determined by standard Proctor (ASTM D 698), a Liquid Limit no greater than 40, a Plasticity Index no greater than 20, a maximum particle size of 4 inches, and 20 percent or less of the material having a particle size between 2 and 4 inches. Because small handheld or walk-behind compaction equipment will most likely be used, backfill should be placed in thin horizontal lifts not exceeding 6 inches (loose).

Fill placement should be monitored by a qualified Materials Technician working under the direction of a Geotechnical Engineer. In addition to the visual evaluation, a sufficient amount of in-place field density tests should be conducted to confirm the required compaction is being attained.

8.4) Reuse of Excavated Soil

The sand that meets the above referenced criteria can be utilized as backfill based on dry soil and site conditions at the time of construction.

9) CONSTRUCTION CONSIDERATIONS - DRILLED SHAFTS

Based on TEP's experience a conventional drilled shaft rig (Hughes Tool LDH or equivalent) can be used to excavate to the auger refusal depth of TEP's boring. An earth auger can typically penetrate the materials encountered to the auger refusal depth of the boring with moderate to severe difficulty. Materials below the auger refusal depth may require a coring bit or roller-bit to remove the material. Boulders and bedrock outcroppings are sometimes encountered in this geographic region and may be encountered outside of the boring location. Special excavation equipment may be necessary for a shaft greater than 60-inches in diameter. If hole collapse is encountered during construction, the design and geotechnical engineers should be contacted immediately to make any necessary adjustments.

The following are general procedure recommendations in drilled shaft construction using the "dry" method:

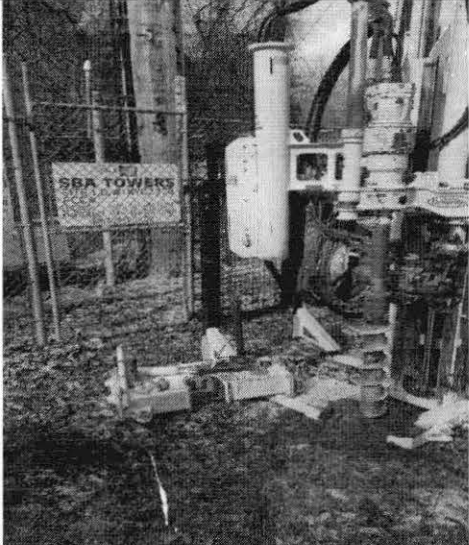
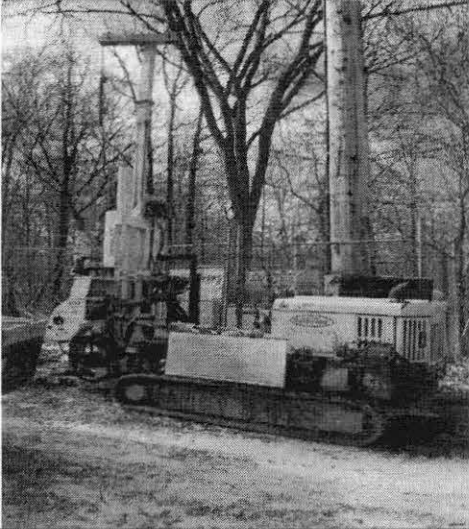

- 1) Drilling equipment should have cutting teeth to result in a hole with little or no soil smeared or caked on the sides; a spiral like corrugated side should be produced. The shaft diameter should be at least equal to the design diameter for the full depth.
- 2) The drilled shaft should be drilled to satisfy a plumbness tolerance of 1.5 to 2 percent of the length and an eccentricity tolerance of 2 to 3 inches from plan location.
- 3) Refer to Section 4.3 for subsurface water information. Water will fluctuate during the year and during rain events. Any subsurface water should be removed by pumping, leaving no more than 3 inches in the bottom of the shaft excavation.
- 4) A removable steel casing may be installed in the shaft to prevent caving of the excavation sides due to soil relaxation. Loose soils in the bottom of the shaft should be removed.
- 5) The drilled shaft should be evaluated by the Geotechnical Engineer or their representative to confirm suitable end bearing conditions and to verify the proper diameter and bottom cleanliness. The shaft should be evaluated immediately prior to and during concrete operations.
- 6) The drilled shaft should be concreted as soon as practical after excavation to reduce the deterioration of the supporting soils due to caving and subsurface water intrusion.
- 7) The slump of the concrete is critical for the development of side shear resistance. TEP recommends a concrete mix having a slump of 6 to 8 inches be used with the minimum compressive strength specified by the structural engineer. A mix design incorporating super plasticizer will likely be required to obtain this slump.
- 8) The concrete may be allowed to fall freely through the open area in the reinforcing steel cage provided it is not allowed to strike the reinforcing steel or the casing prior to reaching the bottom of the shaft excavation.
- 9) The protective steel casing should be extracted as concrete is placed. A head of concrete should be maintained above the bottom of the casing to prevent soil and water intrusion into the concrete below the casing.

Due to the sandy soil, the contractor may elect to utilize the "slurry" method for shaft construction. The following are general procedure recommendations in drilled shaft construction using the "slurry" method:

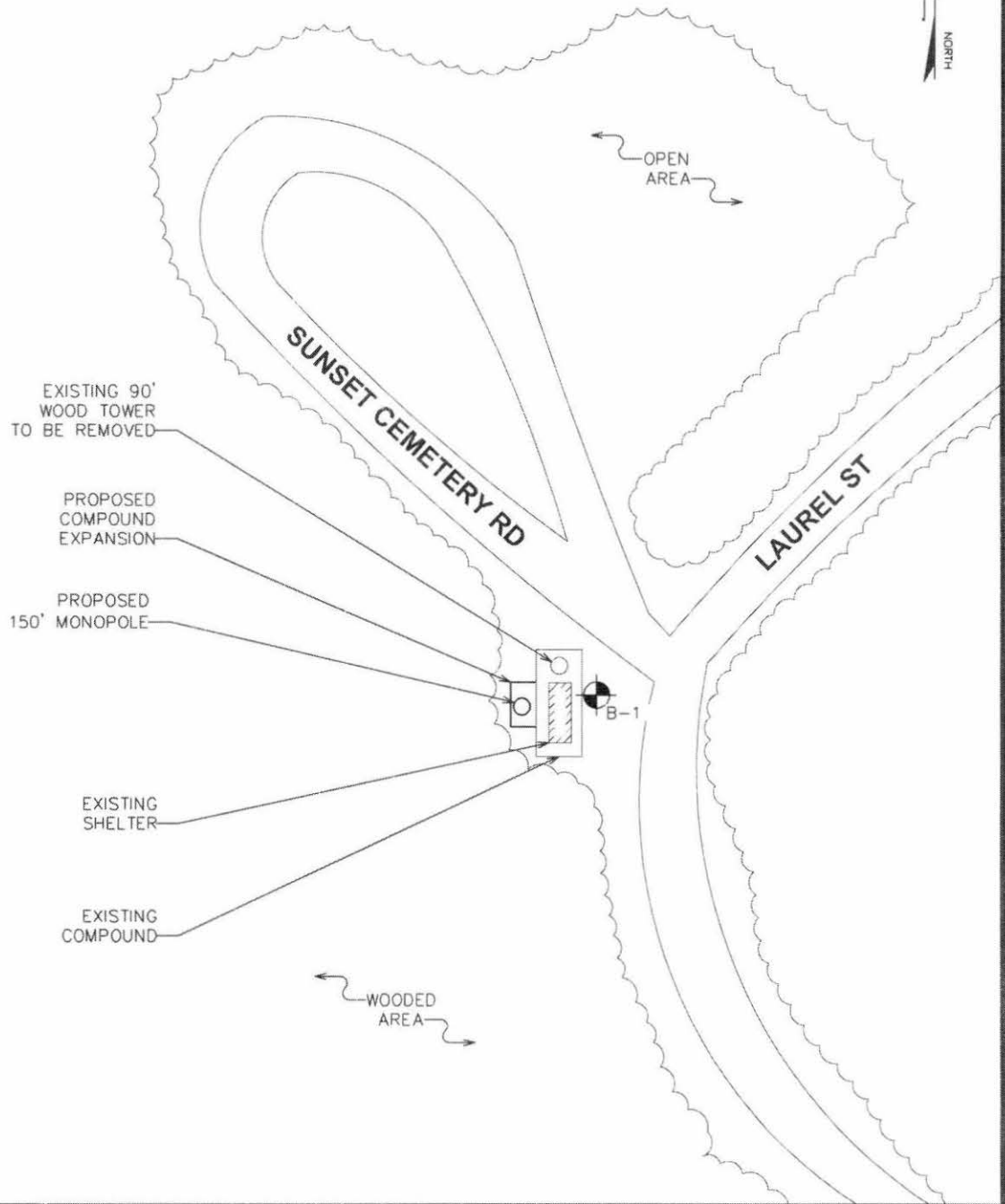
- 1) Slurry drilled shafts are constructed by conventional caisson drill rigs excavating beneath a drilling mud slurry. Typically, the slurry is introduced into the excavation after the groundwater table has been penetrated and/or the soils on the sides of the excavation are observed to be caving-in. When the design shaft depth is reached, fluid concrete is placed through a tremie pipe at the bottom of the excavation.
- 2) The slurry level should be maintained at a minimum of 5 feet or one shaft diameter, whichever is greater, above the subsurface water level.
- 3) Inspection during excavation should include verification of plumbness, maintenance of sufficient slurry head, monitoring the specific gravity, pH and sand content of the drilling slurry, and monitoring any changes in the depth of the excavation between initial approval and prior to concreting.
- 4) A removable steel casing may be installed in the shaft to prevent caving of the excavation sides due to soil relaxation. Loose soils in the bottom of the shaft should be removed.
- 5) The specific gravity or relative density of the drilling mud slurry should be monitored from the initial mixing to the completion of the excavation. An increase in the specific gravity or density of the drilling slurry by as much as 10 percent is indicative of soil particles settling out of the slurry onto the bottom of the excavation. This settling will result in a reduction of the allowable bearing capacity of the bottom of the drilled shaft.
- 6) After approval, the drilled shaft should be concreted as soon as practical using a tremie pipe.
- 7) For slurry drilled shafts, the concrete should have a 6 to 8 inch slump prior to discharge into the tremie. The bottom of the tremie should be set at about one tremie pipe diameter above the excavation. A closure flap at the bottom of the tremie should be used, or a sliding plug introduced into the tremie before the concrete, to reduce the potential for the concrete being contaminated by the slurry. The bottom of the tremie must be maintained in concrete during placement, which should be continuous.
- 8) The protective steel casing should be extracted as concrete is placed. A head of concrete should be maintained above the bottom of the casing to prevent soil and water intrusion into the concrete below the casing.
- 9) Additional concrete should be placed via the tremie causing the slurry to overflow from the excavation in order to reduce the likelihood of slurry pockets remaining in the drilled shaft.

If variability in the subsurface materials is encountered, a representative of the Geotechnical Engineer should verify that the design parameters are valid during construction. Modification to the design values presented above may be required in the field.

10) SITE PHOTOGRAPHS

	<p>Boring Location in Relation to the Existing Tower</p>
	<p>Boring Location in Relation to the Existing Tower</p>
	<p>Boring Location After Drilling</p>

APPENDIX A
BORING LAYOUT



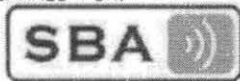
BORING LAYOUT

SCALE: N.T.S.

PREPARED BY:

TOWER ENGINEERING PROFESSIONALS
326 TRYON ROAD
RALEIGH, NC 27603-5263
(919) 661-6351
www.tepgroup.net

PREPARED FOR:



SBA COMMUNICATIONS CORPORATION
5000 VALLEYSTONE DRIVE
CARY, NC 27519
OFFICE: (919) 469-5559

PROJECT INFORMATION:

GREENUP
SITE #: KY02128

311 S LAUREL ST
GREENUP, KY 41144
(GREENUP COUNTY)

REVISION: 0

TEP JOB #: 64594.39916

SHEET NUMBER:

C-1

APPENDIX B
BORING LOG



Tower Engineering Professionals, Inc.
 326 Tryon Road
 Raleigh, NC 27603
 Telephone: 919-661-6351
 Email: geotech@tepgroup.net

LOG OF BORING B-1

1 OF 1

DATE STARTED 2/11/2016	DRILLING METHOD Hollow Stem Auger	HOLE SIZE 3 1/4in	CITY, STATE Greenup, Kentucky
DATE COMPLETE 2/11/2016	HAMMER WEIGHT/FALL 140lbs / 30in	HAMMER TYPE Auto Hammer	TOTAL DEPTH 19.0 FT
GROUND EL.	LOGGED BY TAD	CHECKED BY JDL	DEPTH/EL. GROUNDWATER Not Encountered
PROJECT Greenup			
SITE ID. KY02128		TEP NO.: 64594.39916	
BORING LOCATION Adjacent to the existing tower compound			

SAMPLE NUMBER	SAMPLE LENGTH (INCHES)	BLOW COUNTS (N) REC% / RGD%	ELEVATION (FEET)	DEPTH (FEET)	SAMPLE GRAPHIC	USCS GRAPHIC	DESCRIPTION AND CLASSIFICATION	REMARKS	POCKET PEN TSF	UNCONFINED STRENGTH, PSF	UNIT WEIGHT PCF
S1	18	6-7-8 (15)					0.0-2.5: Medium dense, brown, fine to coarse, well graded SAND (SW), trace clay, with gravel, trace particulate organics, trace roots, moist	Driller Note: Cobbles from 0 feet to 1.5 feet			
S2	18	2-2-5 (7)					2.5-5.0: Loose, brown, fine to coarse, clayey SAND (SC), little gravel, trace particulate organics, moist				
S3	18	5-12-27 (39)		5			5.0-10.0: to dense, no particulate organics, no gravel, partially cemented				
S4	18	9-17-27 (44)						Driller Note: Fragments of weathered sandstone from 6.5 feet to the end of boring			
S5	18	16-34-43 (77)		10			10.0-15.0: Very dense, grayish brown, decomposed SHALE, moist				
S6	8	35-50/2"		15			15.0-19.0: Very dense, gray, weathered SANDSTONE, trace clay, moist				
S7	0	50/0"		20			19.0: Boring Terminated - Auger Refusal at 19 feet				



Tower Engineering Professionals, Inc.
 326 Tryon Road
 Raleigh, NC 27603
 Telephone: 919-661-6351
 Email: Geotech@tepgroup.net

Key to Soil Symbols and Terms

TERMS DESCRIBING CONSISTENCY OR CONDITION

COARSE-GRAINED SOILS (major portions retained on No. 200 sieve): includes (1) clean gravel and sands and (2) silty or clayey gravels and sands. Condition is rated according to relative density as determined by laboratory tests or standard penetration resistance tests.

<u>Descriptive Terms</u>	<u>SPT Blow Count</u>
Very Loose	< 4
Loose	4 to 10
Medium Dense	11 to 30
Dense	31 to 50
Very Dense	> 50

FINE-GRAINED SOILS (major portions passing on No. 200 sieve): includes (1) inorganic and organic silts and clays (2) gravelly, sandy, or silty clays, and (3) clayey silts. Consistency is rated according to shearing strength, as indicated by penetrometer readings, SPT blow count, or unconfined compression tests.

<u>Descriptive Terms</u>	<u>SPT Blow Count</u>
Very Soft	< 2
Soft	2 to 4
Medium Stiff	5 to 8
Stiff	9 to 15
Very Stiff	16 to 30
Hard	> 30

GENERAL NOTES

1. Classifications are based on the Unified Soil Classification System and include consistency, moisture, and color. Field descriptions have been modified to reflect results of laboratory tests where deemed appropriate.

2. Surface elevations are based on topographic maps and estimated locations and should be considered approximate.

3. Descriptions on these boring logs apply only at the specific boring locations and at the time the borings were made. They are not guaranteed to be representative of subsurface condition at other locations or times.

Group Symbols	Typical Names	Sampler Symbols
	GW Well-graded gravels, gravel-sand mixtures, little or no fines	Split Spoon
	GP Poorly-graded gravels, little or no fines/sands	Standard Penetration Test (SPT)
	GM Silty gravels, gravel-sand-silt mixtures	Pushed Shelby Tube
	GC Clayey gravels, gravel-sand-silt mixtures	Auger Cuttings
	SW Well-graded sands, gravelly sands, little or no fines	Grab Sample
	SP Poorly-graded sands, little or no fines/sands/gravels	Dynamic Cone Penetrometer
	SM Silty sands, sand-silt mixtures	Hand Auger
	SC Clayey sands, sand-clay mixtures	Rock Core
	ML Inorganic silts and very fine sands, rock floor, silty or clayey fine sands or clayey silts with slight plasticity	Log Abbreviations ATD - At Time of Drilling AD - After Drilling EOD - End of Drilling RMR - Rock Mass Rating WOH - Weight of Hammer WOR - Weight of Rod REC - Rock Core Recovery RQD - Rock Quality Designation
	CL Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	
	OL Organic silts and organic silty clays of low plasticity	
	MH Inorganic silts, micaceous or distomaceous fine sandy or silty soils, elastic silts	
	CH Inorganic clays of high plasticity, fat clays	
	OH Organic clays of medium to high plasticity, organic silts	
	PT Peat and other highly organic soils	

Information Regarding This Subsurface Exploration Report

The information contained in this report has been specifically tailored to the needs of the client at the time the report was provided, for the specific purpose of the project named in this report. The attached report may not address the needs of contractors, civil engineers, or structural engineers. Anyone other than the named client should consult with the geotechnical engineer prior to utilizing the information contained in the report.

It is always recommended that the full report be read. While certain aspects of the report may seem unnecessary or irrelevant; just as each project and site are unique, so are the subsurface investigation reports and the information contained in them. Several factors can influence the contents of these reports, and the geotechnical engineer has taken into consideration the specific project, the project location, the client's objectives, potential future improvements, etc. If there is any question about whether the attached report pertains to your specific project or if you would like to verify that certain factors were considered in the preparation of this report, it is recommended that you contact the geotechnical engineer.

Geotechnical subsurface investigations often are prepared during the preliminary stages of a project and aspects of the project may change later on. Some changes may require a report revision or additional exploration. Some changes that often need to be brought to the attention of the geotechnical engineer include changes in location, size and/or type of structure, modifications to existing structures, grading around the project site, etc. Some naturally occurring changes can also develop that impact the information contained in this geotechnical report such as earthquakes, landslides, floods, subsurface water levels changing, etc. It is always recommended that the geotechnical be informed of known changes at the project site.

Subsurface exploration reports are generated based on the analysis and professional opinions of a geotechnical engineer based on the results of field and laboratory data. Often subsurface conditions can vary – sometimes significantly – across a site and over short distances. It often is helpful to retain the geotechnical engineer's services during the construction process. Otherwise, the geotechnical cannot assume responsibility or liability for report recommendations which may have needed to change based on changing site conditions or misinterpretation of recommendations.

Geotechnical engineers assemble testing and/or boring logs based on their interpretation of field and laboratory data. Testing and/or boring logs should always be coupled with the subsurface exploration report. The geotechnical engineer and Tower Engineering Professionals cannot be held reliable for interpretations, analyses, or recommendations based solely on the testing and/or boring log if it is independent of the prepared report.

The scope of the subsurface exploration report does not include an assessment or analysis of environmental conditions, determination of the presence or absence of wetlands or hazardous or toxic materials on or below the ground surface. Any notes regarding odors, fill, debris, or anything of that nature are offered as general information for the client, often to help identify or delineate natural soil boundaries.

For additional information, please contact the geotechnical engineer named in the attached report.

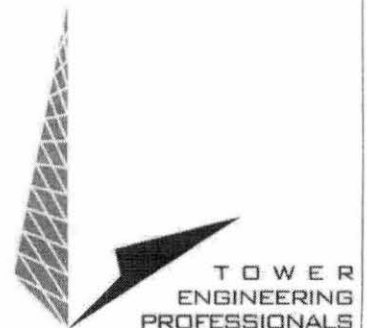


Exhibit I

Directions to WCF Site



A 1005 Walnut St, Greenup, KY 41144

B Laurel St, Greenup, KY 41144

Suggested routes

Laurel St	0.7 mile, 4 min
2nd St and Seaton Ave	1.0 mile, 4 min

A 1005 Walnut St

1. **Head northwest on Walnut St toward Jefferson St**

381 ft

2. **Continue onto Main St**

0.2 m

3. **Turn left onto Laurel St**

0.5 mi

B Laurel St

Exhibit J

Copy of Real Estate Agreement

Misc. 43-150

MEMORANDUM OF LEASE

THIS MEMORANDUM OF LEASE ("Memorandum") is executed this 24th day of Nov., 1991, by and between Jack Rice & Gail Lynhiles Murray ("Lessor") and Horizon Personal Communications, Incorporated, an Ohio corporation ("Lessee") and evidences that on the 24th day of Nov., 1991 an Option and Lease Agreement ("Lease") was entered into by and between Lessor and Lessee.

1. Lease Term. The terms of the Lease shall be Five (5) years commencing on the 1st day of August, 1991 ("Commencement Date") and terminating at midnight on the fifth (5th) anniversary of the Commencement Date ("Initial Term") Lessee has the right under the terms of the Lease to extend the Lease for Four (4) additional Five (5) year terms ("Renewal Terms").

2. Property. Subject to the terms of the Lease Lessor has leased to Lessee the real property described in Exhibit "A" attached hereto ("Property") and Lessor has granted unto Lessee for the Initial Term and any Renewal Term an easement for ingress, egress and utilities over that property described in Exhibit "B" attached hereto ("Easement")

3. Notices. All notices, requests, demands, and other communications to the Lessor or Lessee shall be made at the following addresses

Lessor
Jack Rice P.O. Box 703 Greene, KY 40314
Gail Murray, 8051 Broadway
APT 163
SAN ANTONIO 78209

Lessee
Horizon Personal Communications, Incorporated
68 East Main Street
P O Box 480
Chillicothe, OH 45601-0480

IN WITNESS WHEREOF, the parties have executed this Memorandum as of the date first set

forth above

LESSOR:

Jack Rice
Gail Lynhiles Murray

LESSEE:

Horizon Personal Communications, Incorporated
an Ohio corporation

By: [Signature]
William A. McKell
Title: President

WITNESS:

[Signature]

WITNESS

[Signature]

Horizon PCS
Memo Lease

11/12/96

150

See Assignment
Misc BK-44
Page-180
12-8-99

See Misc BK 48
Pg 329
2.8.06

See Assignment (Mtg Book 563, Pages)
Mtg bk 419-430 + 453
3-5-04

above listed documents
are assignments and an amendment
to Mortgage Mtg 534-238
(which has been partially
released as to our property
by rel. bk 163-32) NOT an
assignment of This Lease.

ACKNOWLEDGMENT

State of Ohio)
County of Ross) ss

Before me, a notary public, in and for said county in said state, personally appeared William A. McKell, known to me to be the person who, as president of Horizon Personal Communications Incorporated, an Ohio corporation, executed the foregoing instrument, signed the same, and acknowledged to me that he did so sign said instrument in the name and upon behalf of said corporation as such officer, and the free and corporate act and deed of said corporation; that he was duly authorized thereunto by its board of directors; and that the seal affixed to said instrument is the corporate seal of said corporation. In testimony whereof, I have hereunto subscribed my name, and affixed my official seal, at Chillicothe, this 24th day of November, 1997.

Marla K. Eberle

Notary Public

My Commission Expires:



MARLA L. EBERLE
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES Jan 16 2002

Horizon PCS
Memo Lease



KENTUCKY ACKNOWLEDGMENT
FORMS

Acknowledgment for an individual acting in his own right:

STATE OF KENTUCKY
COUNTY OF Greene. *Before me appeared personally, Jack Rice*
Subscribed his name.

The foregoing instrument was acknowledged before me this 27 day of Oct., 1992 by

My Commission Expires: 3-28-2000

Mary Jane Hobbs
Notary Public



Acknowledgment for a corporation:

STATE OF KENTUCKY
COUNTY OF

The foregoing instrument was acknowledged before me this _____ day of _____, 19__ by
_____ of _____, a _____ corporation, on behalf of the
corporation.

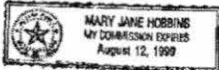
My Commission Expires _____

Notary Public

STATE OF TEXAS §
§
COUNTY OF LEXAR §

BEFORE ME, the undersigned Notary Public of the State of Texas on this day
personally appeared GAIL LYNN LILES MURRAY, proved to be, through presentation
of a Texas Driver's License to be the person whose name is subscribed to the foregoing
instrument and acknowledged to me that she executed the same for the purposes and
consideration therein expressed.

GIVEN UNDER MY HAND and SEAL of Office this 14 day of November, 1997.



Mary Jane Hobbs
Notary Public, State of Texas
152 Notary's printed name: MARY JANE HOBBS

Exhibit "A"

DESCRIPTION FOR TOWER PROPERTY:

All that certain parcel of land situated in Greenup County Kentucky, located near the Town of Greenup and being part of the lands conveyed to Jack T. Rice of record in Deed Volume 235 Page 443 and described as being a 2.91 acre parcel in Deed Volume 140 Page 319, and also known as being part of the Sunset Cemetery Plat as shown in Plat Book 2A Page 147 in the Office of the County Clerk of Greenup County and more particularly described as follows:

Beginning at a 1/2 inch diameter iron pin (set) at the southeast corner of said 2.91 acre parcel.

Thence from said place of beginning and following the boundary line of said 2.91 acre parcel South 81 degrees 11 minutes 37 seconds West 29.35 feet to a 1/2 inch diameter iron pin (set),

thence leaving the boundary line of said 2.91 acre parcel North 48 degrees 25 minutes 58 seconds West 46.90 feet to a 1/2 inch diameter iron pin (set),

thence North 41 degrees 34 minutes 02 seconds East 44.82 feet to a 1/2 inch diameter iron pin (set) on the southerly line of a 20 foot wide roadway,

thence following the southerly line of said 20 foot wide roadway South 48 degrees 25 minutes 58 seconds East 45.00 feet to a 1/2 inch diameter iron pin (set) on the easterly boundary line of said 2.91 acre parcel, where a 1/2 inch diameter iron pin (set) at an angle point in the easterly boundary line of said 2.91 acre parcel bears North 01 degree 17 minutes 47 seconds West 20.70 feet,

thence following the easterly boundary line of said 2.91 acre parcel South 01 degree 17 minutes 47 seconds East 30.30 feet to the place of beginning.

Containing 0.057 acre or 2,500 square feet.

Bearings in this description refer to True North as derived from GPS differential positioning. Observation at Latitude (N) 38 degrees 34 minutes 19.4 seconds and Longitude (W) 82 degrees 50 minutes 27.7 seconds.

This description prepared by or under the direction of Jack A. Hamilton, L.S. #2196 after a field survey of the parcel herein described during January 1998.

LODGED FOR RECORD ON
 THE 21 DAY OF Aug
 19 98 AT 3:45 P. RECORDED
 IN 142 C. BOOK
 NO. 43 PAGE 150
 TAX \$ FEES \$ 74.00
 DONALD L. DAVIDSON, CLERK
 GREENUP COUNTY
 BY *John Burnell*

STATE OF KENTUCKY SCT.
 COUNTY OF GREENUP
 I, Donald L. Davidson, Clerk of the Greenup County Court, do
 hereby certify that the foregoing *deed* was on the 21 day of
Aug, 19 98, at 3:45 o'clock *pm*
 lodged in my office for record, and that it, the foregoing, and
 the certificate have been recorded in my said office.
 Witness my hand this 21 day of *Aug*, 19 98
 DONALD L. DAVIDSON, Clerk
 By *John Burnell* D.O.



Misc. 44-180

ASSIGNMENT OF PRIME LEASE

THIS ASSIGNMENT OF PRIME LEASE AGREEMENT ("Agreement") is made and entered into as of the 28th day of Sept, 1999, by and between SBA Towers, Inc., a Florida corporation ("SBA"), and Horizon Personal Communications, Inc., an Ohio corporation ("Horizon").

WHEREAS, Horizon has entered into a ground lease agreement, Option and Lease Agreement or other similar agreement (the "Prime Lease") for the lease of the real property more particularly described in Exhibit "A" attached hereto (the "Property") upon which Horizon has constructed or will construct a tower and related facilities and an easement for ingress, egress and utilities over the real property more particularly described in Exhibit "B" attached hereto (the "Easement");

WHEREAS, pursuant to that certain Asset Purchase Agreement entered into by and between SBA and Horizon on the 17th day of August, 1999, Horizon desires to assign the Prime Lease for said site; and

WHEREAS, SBA desires to accept an assignment of the Prime Lease and to thereafter sublease a portion of the space upon the tower facilities to Horizon in accordance with that certain Master Site Lease Agreement entered into by and between SBA and Horizon on the 17th day of August, 1999.

NOW THEREFORE, for and in consideration of the mutual promises outlined herein and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, Horizon and SBA do hereby agree as follows:

1. Assignment. Horizon does hereby assign to SBA and SBA shall assume and agree to be bound by the Prime Lease, a memorandum of which has been recorded at Book 43, Page 150, in the office of the Clerk of the County Court of Greenup County, Kentucky, through which Horizon has acquired an interest in the real property which is the subject of the Prime Lease together with any Easements to the Property.

2. Covenants of Horizon. Horizon covenants that it:

(a) unconditionally and absolutely assigns, transfers, sets over and conveys to SBA, all of Horizon's right, title and interest in, to and under the Prime Lease;

(b) shall warrant, indemnify and defend the leasehold title assigned to SBA against the lawful claims of all persons provided that such claim arises as a result of an alleged transfer of Horizon's interest in the Prime Lease, but no further or otherwise except as set forth in the Asset Purchase Agreement, and except to the extent that an interest in real estate is subject to taxes, ordinances and other matters of record; and

(c) has no knowledge or notice of any default, defense, offset, claim, demand, counterclaim or cause of action which may presently exist under the Prime Lease.

Prepared by and Return to:
J. Coleman Prewitt, Esquire
Gunster, Yoakley, Valdes-Fauli & Stewart, P.A.
777 South Flagler Drive, Suite 500E
West Palm Beach, Florida 33401

Greenup

180
See Assignment -
Mtg Bk 44 p. 436-453
3-5-04
Wrong (Assignment &
Amendment of Security
Instrument (now released)).
NOT assignment of this
lease

IN WITNESS WHEREOF, SBA and Horizon have signed this Agreement as of the date and year first above written.

Horizon:

HORIZON PERSONAL COMMUNICATIONS, INC.

By: [Signature]
Name: Joseph J. Whitson
Title: Vice President

WITNESSES:

[Signature]
[Signature]

SBA:

SBA TOWERS, INC.

By: [Signature]
Name: Neal Jackson
Title: Director of Operations

WITNESSES:

[Signature]
[Signature]

ACKNOWLEDGMENT

STATE OF OHIO)
) ss
COUNTY OF ROSS)

Before me, a notary public, in and for said county in said state, personally appeared Joseph J. Watson, known to me to be the person who, as Vice-President of Horizon Personal Communications, Inc., an Ohio corporation, executed the foregoing instrument, signed the same, and acknowledged to me that he did so sign said instrument in the name and upon behalf of said corporation as such officer, and the free and corporate act and deed of said corporation; that he was duly authorized thereunto by its board of directors; and that the seal affixed to said instrument is the corporate seal of said corporation. In testimony whereof, I have hereunto subscribed my name and affixed my official seal this 28 day of September, 1999.



LINDA B. STEPP
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES JAN. 9, 2003

Linda B. Stepp
Notary Public

ACKNOWLEDGMENT

STATE OF OHIO)
) ss
COUNTY OF ROSS)

Before me, a notary public, in and for said county in said state, personally appeared Neil Seidman, known to me to be the person who, as Director of Acquisitions and Associate General Counsel of SBA Towers, Inc., a Florida corporation, executed the foregoing instrument, signed the same, and acknowledged to me that he did so sign said instrument in the name and upon behalf of said corporation as such officer, and the free and corporate act and deed of said corporation; that he was duly authorized thereunto by its board of directors; and that the seal affixed to said instrument is the corporate seal of said corporation. In testimony whereof, I have hereunto subscribed my name and affixed my official seal this 28 day of September, 1999.



LINDA B. STEPP
NOTARY PUBLIC, STATE OF OHIO
MY COMMISSION EXPIRES JAN. 9, 2003

Linda B. Stepp
Notary Public

EXHIBIT "A"

LEGAL DESCRIPTION OF THE PROPERTY AND EASEMENT

DESCRIPTION FOR TOWER PROPERTY:

All that certain parcel of land situated in Greenup County Kentucky, located near the Town of Greenup and being part of the lands conveyed to Jack T. Rice of record in Deed Volume 125 Page 443 and described as being a 2.91 acre parcel in Deed Volume 140 Page 219, and also known as being part of the Sunset Cemetery flat as shown in Plat Book 2A Page 147 in the Office of the County Clerk of Greenup County and more particularly described as follows:

Beginning at a 1/2 inch diameter iron pin (set) at the southeast corner of said 2.91 acre parcel.

Thence from said place of beginning and following the boundary line of said 2.91 acre parcel South 81 degrees 11 minutes 37 seconds West 29.35 feet to a 1/2 inch diameter iron pin (set),

thence leaving the boundary line of said 2.91 acre parcel North 48 degrees 25 minutes 58 seconds West 46.90 feet to a 1/2 inch diameter iron pin (set),

thence North 41 degrees 34 minutes 02 seconds East 44.82 feet to a 1/2 inch diameter iron pin (set) on the southerly line of a 20 foot wide roadway,

thence following the southerly line of said 20 foot wide roadway South 48 degrees 25 minutes 58 seconds East 45.00 feet to a 1/2 inch diameter iron pin (set) on the easterly boundary line of said 2.91 acre parcel, where a 1/2 inch diameter iron pin (set) at an angle point in the easterly boundary line of said 2.91 acre parcel bears North 01 degree 17 minutes 47 seconds West 20.70 feet,

thence following the easterly boundary line of said 2.91 acre parcel South 01 degree 17 minutes 47 seconds East 30.30 feet to the place of beginning.

Containing 0.057 acre or 2,500 square feet.

Bearings in this description refer to True North as derived from GPS differential positioning. Observation at Latitude (N) 38 degrees 34 minutes 19.4 seconds and Longitude (W) 82 degrees 50 minutes 27.7 seconds.

This description prepared by or under the direction of Jack A. Hamilton, L.S. #2196 after a field survey of the parcel herein described during January 1998.

STATE OF KENTUCKY
COUNTY OF GREENUP.....SCT.

I, Donald L. Davidson, Clerk of the Greenup County Court, do certify that the foregoing Assignment was on the 20 day of Oct, 1999, at 11:30 o'clock AM lodged in my office for record, and that the foregoing, and this certificate have been recorded in my said office.

Witness my hand this 20 day of Oct, 1999

DONALD L. DAVIDSON, Clerk
By J. Ann Brown D.C.

Misc. 48-329

This Instrument was prepared by
& after recording returned to
Pachos Estes
SBA Network Service, Inc.
5900 Broken Sound Parkway, NW
Third Floor/Legal Department
Boca Raton, Florida 33487
PH: 1-800-487-7483 ext. 9453

AMENDMENT OF LEASE

THIS AMENDMENT OF LEASE ("Amendment") is dated the 22nd day of August, should be Fletcher
2005 by and between GAIL LYNN MURRAY, JERRY R. RICE, LINDA RICE FLETCHER,
JACK T. RICE & JOY RICE MARSHALL (collectively "Lessor"), and SBA TOWERS,
INC., a Florida corporation ("Lessee").

Recitals:

- A. On November 24, 1997, Lessor and Horizon Personal Communications, Inc. ("Horizon") entered into that certain Option and Lease Agreement ("Lease") with respect to real property located in Greenup County, Kentucky, as more particularly described on Exhibit "A" attached hereto ("Leased Space"). The Lease is further evidenced by that certain Memorandum ("Memorandum"), recorded at Misc. Book 43, Page 150 Greenup County, Kentucky. Horizon assigned its interest in the Lease to Lessee pursuant to that certain Assignment recorded in Misc. Book 44, (Page 175) Greenup County, Kentucky. should be Page 180
- B. Lessor and Lessee now desire to extend the term of the Lease by ninety-nine (99) years and to amend certain terms of the Lease.

Now, Therefore, in consideration of Ten Dollars (\$10.00), the mutual promises herein and other good and valuable consideration, the receipt and sufficiency is hereby acknowledged, Lessor and Lessee agree as follows:

- 1. Term. Sections 12 & 13 of the Lease are hereby amended as follows: The current term of the Lease shall end on the day immediately preceding the Effective Date. This Lease shall and has been renewed for an additional term of ninety-nine (99) years ("99 Year Renewal Term") immediately following such termination and beginning on the Effective Date and ending on July 31, 2104. No further notice or requirements of any kind are required for such renewal. 'Term' shall mean the period from the commencement date of the Lease through the above expiration

date of the 99 Year Renewal Term. 'Effective Date' shall be the date the last of Lessor and Lessee execute this Amendment.

2. **Rent.** Section 14 of the Lease is hereby amended as follows: Lessee shall pay to Lessor a lump sum payment of \$50,600.00 upon full execution of this Amendment which shall represent all rent due Lessor for the balance of the Term including the 99 Year Renewal Term below. This amount shall be in addition to any other rents previously paid to Lessor under the Lease and no further rent shall be due Lessor from Lessee under the Lease.
3. **Notice.** In accordance with Section 27 of the Lease, the notice address for Lessee is hereby amended as follows: SBA Towers, Inc., Attn: Site Administration, 5900 Broken Sound Parkway, Boca Raton, Florida 33487-2797, with notice also to SBA Towers, Inc., Attn: Legal Department, 5900 Broken Sound Parkway, Boca Raton, Florida 33487-2797.
4. **Assignment.** Following any assignment of this Lease by Lessee and assumption of the terms hereof by such assignee, Lessee shall be relieved of all obligations under the Lease.
5. **Lessee's Right to Termination.** The following clause (e) is added to Section 19 of the Lease: "(e) 'Lessee may terminate the Lease at anytime upon sixty (60) days prior notice to Lessor if Lessee elects, in its sole and absolute discretion, to abandon the Leased Space.'"
6. **Cure Period; Default.** No party to the Lease shall be in default of the terms thereof until sixty (60) days following the date of the defaulting party's receipt of notice of default from the non-defaulting party. In the event such default is not reasonably capable of cure within such sixty (60) day period and such defaulting party promptly and diligently pursues the cure of such default during such cure period, such cure period shall be extended for so long as the defaulting party diligently pursues such cure for a maximum of ninety (90) additional days. Notwithstanding the terms of Section 19(a) of the Lease, in no event shall Lessor be entitled to terminate the Lease as a result of or remedy for any breach or default thereunder by Lessee. In the event Lessor fails to comply with the terms of this Lease, Lessee may, in its sole and absolute discretion, cure any such default, and to the extent Lessee incurs any expenses in connection with such cure (including but not limited to the amount of any real property taxes Lessee pays on behalf of Lessor), Lessor agrees to promptly reimburse Lessee for such expenses incurred and hereby grants Lessee a security interest in the Leased Space and the parent parcel in which it is located, if any, to secure Lessor's obligation to repay such amounts to Lessee.
7. **Secured Parties.** Lessee may from time to time grant to certain lenders selected by Lessee and its affiliates (the "Lender") a lien on and security interest in Lessee's interest in the Lease and all assets and personal property of Lessee located on the Leased Space, including, but not limited to, all accounts receivable, inventory, goods, machinery and equipment owned by Lessee ("Personal Property") as

collateral security for the repayment of any indebtedness to the Lender. Should Lender exercise any rights of Lessee under the Lease, including the right to exercise any renewal option(s) or purchase option(s) set forth in the Lease, Lessor agrees to accept such exercise of rights by Lender as if same had been exercised by Lessee, and Lessee, by signing below, confirms its agreement with this provision. If there shall be a monetary default by Lessee under the Lease, Lessor shall accept the cure thereof by Lender within fifteen (15) days after the expiration of any grace period provided to Lessee under the Lease to cure such default, prior to terminating the Lease. If there shall be a non-monetary default by Lessee under the Lease, Lessor shall accept the cure thereof by Lender within thirty (30) days after the expiration of any grace period provided to Lessee under the Lease to cure such default, prior to terminating the Lease. Hereafter, the Lease may not be amended in any respect which would be reasonably likely to have a material adverse effect on Lender's interest therein or surrendered, terminated or cancelled, without the prior written consent of Lender. If the Lease is terminated as result of a Lessee default or is rejected in any bankruptcy proceeding, Lessor will enter into a new lease with Lender or its designee on the same terms as the Lease within 15 days of Lender's request made within 30 days of notice of such termination or rejection, provided Lender pays all past due amounts under the Lease. The foregoing is not applicable to normal expirations of the term of the Lease. Lessor hereby agrees to subordinate any security interest, lien, claim or other similar right, including, without limitation, rights of levy or distraint for rent, Lessor may have in or on the Personal Property, whether arising by agreement or by law, to the liens and/or security interests in favor of the Lender, whether currently existing or arising in the future. Nothing contained herein shall be construed to grant a lien upon or security interest in any of Lessor's assets. Simultaneous with any notice of default given to Lessee under the terms of the Lease, Lessor shall deliver of copy of such notice to Lender at an address to be provided by Lessee.

8. Amendment. Any further amendment or modification to the Lease shall be in writing and shall require the signature of a representative of Lessee of the level of Vice President or above.
9. Other Terms. All terms not otherwise amended by this Amendment shall remain in full force and effect. Lessee and Lessor each acknowledge that the other is not in default under the terms of the Lease and that it has no claims against the other under the terms of the Lease. The Lease, Memorandum and this Amendment constitute the entire agreement between the parties with respect to the subject matter thereof. In the event of any conflict between the terms of this Amendment and the terms of the Lease, the terms of this Amendment shall control. This Amendment shall be recorded in the County in which the leased property is located. Lessor represents, warrants and agrees that it is the sole legal owner of indefeasible and marketable fee simple title to the Leased Space with the right power and authority to enter into this Amendment, and any required consents and authorizations required, in connection with the execution and delivery of this Amendment have been obtained.

THIS AMENDMENT is executed by Lessor and Lessee on the date set forth above.

Signed, Sealed and Delivered in the presence of:

LESSOR:

W. A. Simmons Turner

Name:

W. A. Simmons Turner

Name:

Gail Lynn Murray

Name: Gail Lynn Murray

Jack T. Rice BOA for Jerry R. Rice

Name:

Name: Jerry R. Rice

Brittany Colli

Name:

Jack T. Rice BOA for Linda Rice Fletcher

Name:

Name: Linda Rice Fletcher

Pat Wally

Name:

Brittany Colli

Name:

Jack T. Rice

Name: Jack T. Rice

Pat Wally

Name:

Jack T. Rice BOA for Jerry Rice Marshall

Name:

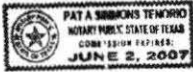
Name: Jerry Rice Marshall

Brittany Colli

Name:

State of TEXAS
County of Polk

The foregoing instrument was acknowledged before me this 11th day of August, 2005, by Gail Lynn Murray.



Pat A. Simmons - Thelin
Notary Public, State of TEXAS

My commission expires: 6-2-07

State of Kentucky
County of Greenup

The foregoing instrument was acknowledged before me this 15 day of August, 2005, by Jerry R. Rice.

Kathy Abdon
Notary Public, State of Kentucky

My commission expires: 1-20-08

State of Kentucky
County of Greenup

The foregoing instrument was acknowledged before me this 15 day of August, 2005, by Linda Rice Letcher.

Kathy Abdon
Notary Public, State of Kentucky

My commission expires: 1-20-08

State of Kentucky
County of Greenup

The foregoing instrument was acknowledged before me this 15 day of August, 2005, by Jack T. Rice.

Kathy Abdon
Notary Public, State of Kentucky

My commission expires: 1-20-08

48-334

State of Kentucky
County of Greenup

The foregoing instrument was acknowledged before me this 15 day of August, 2005, by
Joy Rice Marshall.

Kathy Abdon
Notary Public, State of Kentucky

My commission expires: 1-20-08

LESSEE:

SBA TOWERS, INC.

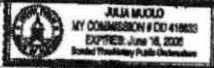
Robert Cape
Name: Robert Cape

Jill Portano
Name: Jill Portano

By: Thomas P. Hunt
Name: Thomas P. Hunt
Title: Senior V.P., General Counsel

State of Florida
County of Palm Beach

The foregoing instrument was acknowledged before me this 23rd day of August, 2005, by
Thomas P. Hunt, the Senior Vice President and General Counsel of SBA Properties, Inc., a
Florida corporation on behalf of the corporation. The above named individual is personally
known to me or produced to me by a person(s) of identification.



Seal/Stamp

Julia Mucilo
Notary Public

My commission expires: _____

Exhibit K

Notification Listing

Last Name	First Name	Address	City	State	ZIP
Brewer	Tammy Lynn	604 Sycamore St	Greenup	KY	41144
Crump	Maudie	501 Sycamore St	Greenup	KY	41144
Stone	Dorothy	154 Pibb St	Greenup	KY	41144
Worthington	Paul E, Jr., & Francine M	PO Box 464	Greenup	KY	41144
Kentucky Power Co		PO Box 16428	Columbus	OH	43216
C/O Charlotte Brown	Violet Carter	608 Sycamore St	Greenup	KY	41144
Craft	Pamala	506 Sycamore St	Greenup	KY	41144
Andrea Wolfe	Hobart E Marshall	2023 Lois Ave	Greenup	KY	41144
Craft	Pamala	400 Sycamore St	Greenup	KY	41144
Felty	Jarvey E & Ricca Jane	704 Highland Ave	Greenup	KY	41144
Jack T. Rice, Jerry R. Rice	Richard Fletcher, Lora Heln	PO Box 703	Greenup	KY	41144
Jack T. Rice, Jerry R. Rice	Richard Fletcher, Lora Heln	8051 Broadway, Apt 1	San Antoni	TX	78209
Cemetery	Sunset		Greenup	KY	41144

Greenup Notification Letters

*Note the address for Sunset Cemetery was not available through the Greenup County PVA and could not be verified by the USPS, so no notificaiton was able to be sent.

Exhibit L

Copy of Property Owner Notifications



Via Certified Mail Return Receipt Requested

Richard Fletcher, Lora Helms and Gail Murray Jack T. Rice, Jerry R. Rice, Joy Rice Marshall
 8051 Broadway, Apt 163
 San Antonio, TX 78209

September 28, 2016

Dear Richard Fletcher, Lora Helms and Gail Murray Jack T. Rice, Jerry R. Rice, Joy Rice Marshall,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

This notice is being sent to you because the Greenup County Property Valuation Administrator's records indicate that you own property that is within a 500' radius of the proposed site OR is contiguous to the property on which the facility is to be constructed.

The Commission welcomes your comments regarding the proposed construction and wants you to be aware of your right to request intervention in the Commission's proceedings on this application. Your comments and request for intervention should be addressed to:

Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
 Site Acquisition Specialist
 agent for SBA Towers, LLC

PBM Wireless S
8970 Mimosa Lane West Chester OH 450

7013 1090 0000 8640 2289

U.S. Postal Service SM		
CERTIFIED MAILTM RECEIPT		
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>		
For delivery information visit our website at www.usps.com		
SAN ANTONIO, TX 78209		
OFFICIAL USE		
Postage	\$3.30	0869 04 Postmark Here 09/28/2016
Certified Fee	\$2.70	
Return Receipt Fee (Endorsement Required)	\$0.00	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$6.47	
Sent To		Jack T. Rice, Jerry R. Rice, Joy Rice Marshall, Richard Fletcher, Lora Helms and Gail Murray 8051 Broadway Apt 163 San Antonio, TX 78209
Street, Apt. No., or P.O. Box No.		
City, State, ZIP+4		
PS Form 3800, August 2006		See Reverse for Instructions



Via Certified Mail Return Receipt Requested

Richard Fletcher, Lora Helms and Gail Murray Jack T. Rice, Jerry R. Rice, Joy Rice Marshall
 PO Box 703
 Greenup, KY 41144

September 28, 2016

Dear Richard Fletcher, Lora Helms and Gail Murray Jack T. Rice, Jerry R. Rice, Joy Rice Marshall,

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Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
 Site Acquisition Specialist
 agent for SBA Towers, LLC

PBM Wireless
 8970 Mimosa Lane West Chester OH 4

7013 1090 0000 8640 2272 E703

U.S. Postal Service		CERTIFIED MAIL RECEIPT	
<i>(Domestic Mail Only, No Insurance Coverage Provided)</i>			
For delivery information visit our website at www.usps.com			
GREENUP, KY 41144		OFFICIAL USE	
Postage	\$3.30	0869	Postmark Here
Certified Fee	\$2.70	04	
Return Receipt Fee (Endorsement Required)	\$0.00		
Restricted Delivery Fee (Endorsement Required)	\$0.00		
Restricted Delivery Fee (Endorsement Required)	\$0.00		
Total Postage & Fees	\$6.47	09/28/2016	
Sent To	Jack T. Rice, Jerry R. Rice, Joy Rice Marshall, Richard Fletcher, Lora Helms and Gail Murray		
Street, Apt. No., or PO Box No.	PO Box 703		
City, State, ZIP+4	Greenup, KY 41144		



Think outside the triangle.

Via Certified Mail Return Receipt Requested

Jarvey E & Ricca Jane Felty
704 Highland Ave
Greenup, KY 41144

September 28, 2016

Dear Jarvey E & Ricca Jane Felty,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

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Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
Site Acquisition Specialist
agent for SBA Towers, LLC

7013 1090 0000 8640 2265

U.S. Postal Service™		CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>			
For delivery information visit our website at www.usps.com .			
GREENUP, KY 41144			
OFFICIAL USE			
Postage	\$3.30		0869
Certified Fee	\$2.70		04
Return Receipt Fee (Endorsement Required)	\$0.00		
Restricted Delivery Fee (Endorsement Required)	\$0.00		
Total Postage & Fees	\$6.47		
Postmark Date:		09/28/2016	
Sent To		Jarvey E & Ricca Jane Felty	
Street, Apt. No., or PO Box No.		704 Highland Ave	
City, State, ZIP+4		Greenup, KY 41144	
PS Form 3800, August 2006		See Reverse for Instructions	

PBM Wirel
8970 Mimosa Lane West Chester OE



Think outside the triangle.

Via Certified Mail Return Receipt Requested

Pamala Craft
400 Sycamore St
Greenup, KY 41144

September 28, 2016

Dear Pamala Craft,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

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Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
Site Acquisition Specialist
agent for SBA Towers, LLC

PBM Wireless
8970 Mimosa Lane West Chester OH 4

U.S. Postal Service	
CERTIFIED MAIL RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at www.usps.com	
GREENUP, KY 41144	
OFFICIAL USE	
Postage	\$3.30
Certified Fee	\$2.70
Return Receipt Fee (Endorsement Required)	\$0.00
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$6.47
Postmark Here	0869 04
	09/28/2016
Sent To	Pamala Craft
Street, Apt. No., or PO Box, No.	400 Sycamore St
City, State, ZIP+4	Greenup, KY 41144
PS Form 3800, August 2006	
See Reverse for Instructions	

7013 1090 0000 8640 2302



Think outside the triangle.

Via Certified Mail Return Receipt Requested

Hobart E Marshall Andrea Wolfe
2023 Lois Ave
Greenup, KY 41144

September 28, 2016

Dear Hobart E Marshall Andrea Wolfe,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

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Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
Site Acquisition Specialist
agent for SBA Towers, LLC

PBM Wireless
8970 Mimosa Lane West Chester OH 4

7013 1090 0000 0607 ETD 0

9622 0499 8640 2296

U.S. Postal Service
CERTIFIED MAIL™ RECEIPT
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For delivery information visit our website at www.usps.com
GREENUP, KY 41144

OFFICIAL USE

Postage	\$3.30		0869
Certified Fee	\$2.70		04
Return Receipt Fee (Endorsement Required)	\$0.00		
Restricted Delivery Fee (Endorsement Required)	\$0.00		
	\$0.00		
	\$0.47		
Total Postage & Fees	\$6.47		

Postmark Here: 09/28/2016

Sent to: Hobart E Marshall & Andrea Wolfe
Street, Apt. No. or PO Box No.: 2023 Lois Ave
City, State, ZIP+4: Greenup, KY 41144

PS Form 3800, August 2006 See Reverse for Instructions



Think outside the triangle.

Via Certified Mail Return Receipt Requested

Pamala Craft
506 Sycamore St
Greenup, KY 41144

September 28, 2016

Dear Pamala Craft,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

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Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
Site Acquisition Specialist
agent for SBA Towers, LLC

PBM Wireless
8970 Mimosa Lane West Chester OH

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at www.usps.com	
GREENUP, KY 41144	
OFFICIAL USE	
Postage	\$3.30
Certified Fee	\$2.70
Return Receipt Fee (Endorsement Required)	\$0.00
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$6.47
Postmark Here	
09/28/2016	
Sent To	
Pamala Craft	
506 Sycamore St	
Greenup, KY 41144	
PS Form 3800, August 2009	
See Reverse for Instructions	

7013 1090 0000 8640 2258



Think outside the triangle.

Via Certified Mail Return Receipt Requested

Violet Carter C/O Charlotte Brown
608 Sycamore St
Greenup, KY 41144

September 28, 2016

Dear Violet Carter C/O Charlotte Brown,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

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Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
Site Acquisition Specialist
agent for SBA Towers, LLC

PBM Wireless
8970 Mimosa Lane West Chester OH 45381

U.S. Postal Service		CERTIFIED MAIL™ RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)			
For delivery information visit our website at www.usps.com			
GREENUP, KY 41144			
OFFICIAL USE			
Postage	\$3.30	\$2.70	0869
Certified Fee	\$0.00	\$0.00	04
Return Receipt Fee (Endorsement Required)	\$0.00	\$0.00	Postmark Date
Restricted Delivery Fee (Endorsement Required)	\$0.00	\$0.00	
Total Postage & Fees	\$6.47	\$6.47	09/28/2016
Sent To	Violet Carter, C/O Charlotte Brown		
Street, Apt. No., or PO Box No.	608 Sycamore St		
City, State, ZIP+4	Greenup, KY 41144		

7013 1090 0000 8640 2241



Think outside the triangle.

Via Certified Mail Return Receipt Requested

Kentucky Power Co
PO Box 16428
Columbus, OH 43216

September 28, 2016

Dear Sir or Madam,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

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Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
Site Acquisition Specialist
agent for SBA Towers, LLC

PBM Wire
8970 Mimosa Lane West Chester OH

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For more information, visit our website at www.usps.com

For COLUMBUS, OH 43216

OFFICIAL USE

Postage	\$ 2.70	0869
Certified Fee	\$0.00	04
Return Receipt Fee (Endorsement Required)	\$0.00	
Restricted Delivery Fee (Endorsement Required)	\$0.00	
Total Postage & Fees	\$2.70	

Postmark Here: 09/28/2016

Sent To: Kentucky Power Company
Street, Apt. No. or PO Box No.: PO Box 16428
City, State, ZIP+4: Columbus OH 43216

PS Form 3800, August 2006 See Reverse for Instructions

2234 2234 0000 8640 1090 1013



Think outside the triangle.

Via Certified Mail Return Receipt Requested

Paul E, Jr., & Francine M Worthington
PO Box 464
Greenup, KY 41144

September 28, 2016

Dear Paul E, Jr., & Francine M Worthington,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

This notice is being sent to you because the Greenup County Property Valuation Administrator's records indicate that you own property that is within a 500' radius of the proposed site OR is contiguous to the property on which the facility is to be constructed.

The Commission welcomes your comments regarding the proposed construction and wants you to be aware of your right to request intervention in the Commission's proceedings on this application. Your comments and request for intervention should be addressed to:

Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
Site Acquisition Specialist
agent for SBA Towers, LLC

7012 1090 0000 8640 2222

U.S. Postal Service™		CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>			
For delivery information visit our website at www.usps.com			
GREENUP, KY 41144			
OFFICIAL USE			
Postage	\$3.30	Certified Fee	\$2.70
Return Receipt Fee (Endorsement Required)	\$0.00	Postage Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$6.47		
		Postmark Here	0869 04
			09/28/2016
Sent To		Paul E Jr., & Francine M	
Street, Apt. No., or PO Box No.		Worthington	
City, State, ZIP+4		PO Box 464 Greenup, KY 41144	
PS Form 3800, August 2006		See Reverse for Instructions	

PBM Wire
8970 Mimosa Lane West Chester O



Think outside the triangle.

Via Certified Mail Return Receipt Requested

Dorothy Stone
154 Pibb St
Greenup, KY 41144

September 28, 2016

Dear Dorothy Stone,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

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Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
Site Acquisition Specialist
agent for SBA Towers, LLC

U.S. Postal Service™
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For delivery information visit our website at www.usps.com
 GREENUP, KY 41144

OFFICIAL USE

7013 1090 0000 8640 2210

Postage	\$3.30
Certified Fee	\$2.70
Return Receipt Fee (Endorsement Required)	\$0.00
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$6.47

0869 04
Postmark Here
09/28/2016

PBM Wire
8970 Mimosa Lane West Chester O

Sent To
 Dorothy Stone
 154 Pibb St
 Greenup, KY 41144

PS Form 3800, August 2006 See Reverse for Instructions



Via Certified Mail Return Receipt Requested

Maudie Crump
 501 Sycamore St
 Greenup, KY 41144

September 28, 2016

Dear Maudie Crump,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

This notice is being sent to you because the Greenup County Property Valuation Administrator's records indicate that you own property that is within a 500' radius of the proposed site OR is contiguous to the property on which the facility is to be constructed.

The Commission welcomes your comments regarding the proposed construction and wants you to be aware of your right to request intervention in the Commission's proceedings on this application. Your comments and request for intervention should be addressed to:

Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
 Site Acquisition Specialist
 agent for SBA Towers, LLC

PBM Wireless
 8970 Mimosa Lane West Chester OH 41

U.S. Postal Service™		CERTIFIED MAIL™ RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>			
For delivery information visit our website at www.usps.com			
GREENUP, KY 41144			
OFFICIAL USE			
Postage	\$3.20	\$2.70	0869
Certified Fee	\$0.00	\$0.00	04
Return Receipt Fee (Endorsement Required)	\$0.00	\$0.00	Postmark Here
Restricted Delivery Fee (Endorsement Required)	\$0.00	\$0.00	
Total Postage & Fees	\$6.47	\$6.47	09/28/2016
Sent To		Maudie Crump	
Street, Apt. No., or P.O. Box No.		501 Sycamore St	
City, State, ZIP+4		Greenup, KY 41144	
PS Form 3800, August 2006		See Reverse for Instructions	



Think outside the triangle.

Via Certified Mail Return Receipt Requested

Tammy Lynn Brewer
604 Sycamore St
Greenup, KY 41144

September 28, 2016

Dear Tammy Lynn Brewer,

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

This notice is being sent to you because the Greenup County Property Valuation Administrator's records indicate that you own property that is within a 500' radius of the proposed site OR is contiguous to the property on which the facility is to be constructed.

The Commission welcomes your comments regarding the proposed construction and wants you to be aware of your right to request intervention in the Commission's proceedings on this application. Your comments and request for intervention should be addressed to:

Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
Site Acquisition Specialist
agent for SBA Towers, LLC

PBM Wireless
8970 Mimosa Lane West Chester OH

U.S. Postal Service TM	
CERTIFIED MAILTM RECEIPT	
<i>(Domestic Mail Only; No Insurance Coverage Provided)</i>	
For delivery information visit our website at www.usps.com	
GREENUP, KY 41144	
OFFICIAL USE	
Postage	\$3.30
Certified Fee	\$2.70
Return Receipt Fee (Endorsement Required)	\$0.00
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$6.47
	\$0.47

7013 1090 0000 8640 2197

0869 04

Postmark Here

09/28/2016

Sent To	Tammy Lynn Brewer
Street, Apt. No., or PO Box No.	604 Sycamore St
City, State, ZIP+4	Greenup, KY 41144

PS Form 3800, August 2006 See Reverse for Instructions

Exhibit M

Copy of County Judge/Executive Notice



Think outside the triangle.

Honorable Judge Robert W. Carpenter
Greenup County Judge Executive
Greenup County Courthouse
301 Main St., Room 102
Greenup, KY 41144

September 28, 2016

Via Certified Mail Return Receipt Requested

Dear Judge Carpenter

SBA Towers, LLC is applying to the Kentucky Public Service Commission (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a wireless telecommunications facility located at 311 South Laurel Street, Greenup, Kentucky 41144. A map showing the location is attached. The proposed facility will include a 150 foot monopole, plus ground related facilities.

You have a right to submit comments regarding the proposed construction to the Commission or to request intervention in the Commission's proceedings on this application.

Your comments and request for intervention should be addressed to:
Kentucky Public Service Commission, Executive Director, 211 Sower Boulevard, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2016-00158 in any correspondence.

Sincerely

Paul Nichols
Site Acquisition Specialist
agent for SBA Towers, LLC

PBM Wireless
8970 Mimosa Lane West Chester OH

U.S. Postal Service™	
CERTIFIED MAIL™ RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
GREENUP, KY 41144	
Postage	\$3.30
Certified Fee	\$2.70
Return Receipt Fee (Endorsement Required)	\$0.00
Restricted Delivery Fee (Endorsement Required)	\$0.00
Total Postage & Fees	\$6.47
Postmark Here	0869 04
	09/28/2016
Sent To	JUDGE ROBERT CARPENTER
Street, Apt. No. or PO Box No.	301 MAIN ST. RM 107
City, State, ZIP+4	GREENUP KY 41144
PS Form 3800, August 2005	See Reverse for Instructions

7013 1090 0000 8640 2333

Exhibit N

Photos of Posted Notices



730. AUTOS

CHRYSLER '06 Sebring, 79,000 mi., 4 cylinder, 4 door, very clean. Must see! \$4,495. Call 606-232-6319.

CHRYSLER PT CRUISER CONVERTIBLE

2005. Garage kept. Good condition. 606-324-4793

CHRYSLER- 2006 PT Cruiser Limited, low miles, loaded. Must see. \$3,500. Call 606-232-6319.

MINI COOPER - 2002 6-spd. standard, green, excellent condition, 87,000 miles, \$4,450. Call for info, 606-831-7255 or 606-836-6246.

735. BOAT ACCESS. & EQUIPMENT

SEA BREEZE - 18 ft., 125HP Mercury motor, tilt trailer & top, good condition. Reduced to \$950. Call (house) 606-324-3644 or (cell) 606-571-2383.

SEA RAY- 1984 Seville, 19 ft., cuddly cabin, \$3,000. 606-836-4745 or 606-922-6363. See at Boyd County Marine in Cannonsburg.

745. MOTORCYCLES, ATVS

UTILITY TRAILER- New! 6x8, 1600 lb. axle, extra heavy duty frame, can be moved by hand, \$750. 606-928-8067 or 606-923-6248.

Is your old car beyond repair? Find a good used car in today's classified section... Even big business can benefit from a small ad in classified. Call us and we'll show you how an investment in classified pays off.

745. MOTORCYCLES, ATVS

HONDA- 2002



Shadow Sabre 18,000 mi., black, lots of extras, Cobra exhaust, floor boards, sissy bar, garage kept, excellent condition. \$2,950 OBO. 606-922-6057. lesrss12@hotmail.com

750. CAMPER/RV

JAYCO JAY FLIGHT



2014, 0 hours, 26 ft. bunkhouse- sleeps 10 - full size bunk beds- queen bedroom- heat/air- couch converts to bed- booth with table converts to bed- electric awning- radio with indoor/outdoor speakers- hitch & sway bar included- electric jack- full bath with tub- NO SLIDE OUTS- runs on electric/propane- outdoor shower- lots of underneath storage- outdoor mini fridge- 1 TV included- full kitchen- any extras bought also includes- coffee pot- toaster- silverware and caddy- brand new 10x10 netted gazebo tent- 2 comforters -sheets- camping cups/plates/bowls- still can smell the new inside- exc. cond. Exc. cond. \$12,900. 606-232-0603.

765. SUV

CADILLAC ESCALADE 2008, 138,000 miles, perfect condition, 3 month warranty, \$18,400. Call Gary at 606-922-8131.

775. TRUCKS

DODGE RAM 2003 1500



Fully loaded, 5.7 Liter, Hemi Magnum, SLT, 2WD, Quad Cab, 152,000 miles, gold, all power, excellent condition inside and out. Best '03 truck in town! \$7,900. 606-920-9432.

No room left in the garage for the car? A call to classified can help.

SUBSCRIBE TODAY! THE GREENUP NEWS 606-473-9851

LEGAL NOTICE

On Thursday, October 6, 2016 at 10:00 am the Greenup County Board of Elections will meet to examine the voting machines being used for absentee in-house voting for the General Election which will be held on November 8, 2016. The board will meet in the office of Greenup County Clerk.

Pat Hieneman
Greenup County Clerk and Chair, Greenup County Board of Elections

Published: September 29, 2016

COMMONWEALTH OF KENTUCKY GREENUP CIRCUIT COURT CIVIL ACTION NO. 16-CI-00209 DIVISION I

FIRST & PEOPLES BANK AND TRUST COMPANY

PLAINTIFF,

VS.: NOTICE OF SALE

DONALD K. HARRISON, single

DEFENDANT.

In pursuance to a Judgment and Order of Sale entered in the above styled action on September 6, 2016, I will on **October 10, 2016**, at the hour of 1:00 p.m., offer for sale at public auction to the highest and best bidder at the main and front door of the Greenup County Courthouse at Greenup, Kentucky, the following described real estate, *to-wit*:

A certain tract of land lying in Greenup County, Kentucky, and described as follows, *to-wit*:

Situated in the Town of Greenup and being Lot No. 72 on the plat of said town. Said Lot is bounded on the north by Main Street, on the south by Perry Street, on the east by Walnut Alley and on the west by a vacant lot of John W.H. Warnock.

Being the same real estate conveyed by Jeanette Hatton, married, to Donald K. Harrison and Selene G. Harrison, his wife, by Deed dated June 27, 2001, and recorded in Deed Book 487, Page 163, in the Office of the Greenup County Clerk.

Also the same real estate from Selene G. Harrison to Donald K. Harrison by Deed recorded in Deed Book 566, Page 484, in the Office of the Greenup County Court Clerk.

The property address is 124 West Main Street, Greenup, Kentucky 41144. The PVA Parcel No. is 138-30-01-020.00.

The above described property shall be sold separately, on terms of cash or on a credit of thirty (30) days. If sold on terms of credit, the purchaser shall be required to make a deposit of

LEGAL NOTICE

Take notice that SBA Towers, LLC, has applied to the Kentucky Public Service Commission (PSC) for a Certificate of Public Convenience and Necessity to construct a Wireless Communications Facility at 311 South Laurel Street, Greenup, Kentucky 41144. Comments can be addressed to the PSC, Executive Director, 211 Sower Blvd., P.O. Box 615, Frankfort, KY 40602. Refer to Case No. 2016-00158.

Published: September 29, 2016

ORDINANCE NO. 8-2016

AN ORDINANCE FIXING THE TAX RATE FOR THE CITY OF FLATWOODS, KENTUCKY FOR THE TAX YEAR 2016; ESTABLISHING SAID TAX RATE AT \$.3100 FOR EACH \$100.00 OF TAXABLE PROPERTY; ESTABLISHING DUE DATE AND PENALTY AND DISCOUNT RATE AND DATE; AND OTHER MATTERS.

CERTIFICATION

This is to certify that the above mentioned Ordinance

Exhibit O

Search Area Map

HT220 Greenup



Fig. 1 Illustrates the search area that may fulfill coverage objectives.

SITE DESIGN PARAMETERS		NAME:	Greenup
Engineer: David Mellick		Site ID.:	HT220
Latitude	38.572070°	Market	Huntington, WV - Ashland, KY
Longitude	-82.840955°	County	Greenup
Server RCL	Minimum of 150'	Map Name	Google Earth Oct 8, 2013
Donor RCL	N/A	Release Date	8/26/2015
BTS Type	Nokia	Sectors	3
Elevation	678' AMSL	Priority	2016
Site Objectives: Cover the communities of Greenup KY, Haverhill and Franklin Furnace, OH. Cover homes south along Rt. 2			
Comments: West Virginia PCS Alliance, L.C. 311 S Laurel St., Greenup, KY			

RF Manager: _____ Date: _____