#### **COMMONWEALTH OF KENTUCKY**

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PUBLIC SERVICE

#### **BEFORE THE PUBLIC SERVICE COMMISSION**

In the Matter of:

## APPLICATION OF BLUEGRASS WIRELESS LLC FOR ISSUANCE OF A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY TO CONSTRUCT A CELL SITE (NORWOOD) IN RURAL SERVICE AREA #6 (PULASKI) OF THE COMMONWEALTH OF KENTUCKY

CASE NO. 2005-00438

#### <u>APPLICATION FOR A CERTIFICATE</u> OF PUBLIC CONVENIENCE AND NECESSITY (NORWOOD)

Bluegrass Wireless LLC ("Bluegrass Wireless"), through counsel, pursuant to KRS 278.020 and 278.040, hereby submits this application for a certificate of public convenience and necessity to construct a cell site to be known as the Norwood cell site in and for rural service area ("RSA") #6 of the Commonwealth of Kentucky, namely the counties of Boyle, Casey, Garrard, Laurel, Lincoln, Madison, Pulaski, and Rockcastle, Kentucky.

- 1. As required by 807 KAR 5:001 Sections 8(1) and (3), and 807 KAR 5:063, Bluegrass Wireless states that it is a Kentucky limited liability company whose full name and post office address are: Bluegrass Wireless LLC, 2902 Ring Road, Elizabethtown, Kentucky, 42701.
- 2. Pursuant to 807 KAR § 1 (1)(b), a copy of the applicant's applications to the Federal Aviation Administration and Kentucky Airport Zoning Commission are Exhibit "A". Written authorizations from these agencies will be supplied to the Commission upon their approval.

3. Pursuant to 807 KRS 5:063 §1(1)(d), a geotechnical investigation report, signed and sealed by a professional engineer registered in Kentucky, that includes boring logs, foundation design recommendations, and a finding as to the proximity of the proposed site to flood hazard areas is Exhibit "B".

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

5. Pursuant to 807 KRS 5:063 §1(1)(f), a copy of the lease (or sale agreement) for the property on which the tower is proposed to be located, is Exhibit "D".

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

7. Pursuant to 807 KAR §1(1)(g), Dielectric is responsible for the design specifications of the proposed tower (identified in Exhibit "B").

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

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

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

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

12. Pursuant to 807 KRS 5:063 § 1 (1)(1), applicant's legal counsel hereby affirms that every person who owns property within 500 feet of the proposed tower has been: (i) notified by certified mail, return receipt

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requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of his right to request intervention.

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

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

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

Pursuant to 807 KRS 5:063 §1(1)(o), a copy of the notice sent to the Pulaski County Judge
 Executive is Exhibit "G".

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

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

(a) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "*Bluegrass Wireless, LLC proposes to construct a telecommunications tower on this site*", including the addresses and telephone numbers of the applicant and the Kentucky Public Service Commission, has been posted and shall remain in a visible location on the proposed site until final disposition of the application; and

(b) A written notice, of durable material at least two (2) feet by four (4) feet in size, stating that "*Bluegrass Wireless, LLC proposes to construct a telecommunications tower near this site*", including the addresses and telephone numbers of the applicant and the Kentucky Public Service Commission, has been posted on the public road nearest the site.

A copy of each sign is attached as Exhibit "H"

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19. Pursuant to 807 KRS 5:063 § 1 (1)(q), a statement that notice of the location of the proposed construction has been published in a newspaper of general circulation in the county in which the construction is proposed, is Exhibit "I".

20. Pursuant to 807 KRS 5:063 § 1(1)(r), the cell site which has been selected is in a relatively undeveloped area in Somerset, Kentucky.

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

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

23. Pursuant to KRS 100.987(2)(a), a grid map, that is drawn to scale, that shows the location of all existing cellular antenna towers and that indicates the general position of proposed construction sites for new cellular antenna towers is Exhibit "K".

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

25. Correspondence and communication with regard to this application should be

addressed to:

John E. Selent 1400 PNC Plaza 500 West Jefferson Street Louisville, KY 40202 (502) 540-2300 *selent@dinslaw.com* 

WHEREFORE, Bluegrass Wireless requests the Commission to enter an order:

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

2. Granting all other relief as appropriate.

Respectfully submitted,

John E. Selent DINSMORE & SHOHL, LLP 1400 PNC Plaza 500 West Jefferson Street Louisville, KY 40202 (502) 540-2300 (500) 540-2307 (502) 540-2207 john.selent@dinslaw.com

105734v1 33597-11

# LUKAS, NACE GUTIERREZ & SACHS

CHARTERED

1650 Tysons Boulevard, Suite 1500 McLean, Virginia 22102 703 584 8678 • 703 584 8696 Fax

WWW.FCCLAW.COM

RUSSELL D. LUKAS\* DAVID L. NACE\* THOMAS GUTIERREZ\* ELIZABETH R. SACHS\* GEORGE L. LYON, JR. PAMELA L. GIST\* DAVID A. LAFURIA B. LYNN F. RATNAVALE\* TODD SLAMOWITZ\* STEVEN M. CHERNOFF\* CONSULTING ENGINEERS ALI KUZEHKANANI LEROY A. ADAM LEILA REZANAVAZ SUMEET K. BHALOTIA

OF COUNSEL JOHN J. MCAVOY\* J.K. HAGE III\* LEONARD S. KOLSKY\* HON. GERALD S. MCGOWAN\*

\*NOT ADMITTED IN VA

November 10, 2005

Telephone (703)584-8668 FACSIMILE (703) 584-8692

## Via Federal Express

Mr. John Houlihan Kentucky Airport Zoning Commission 200 Mero Street Frankfort, Kentucky 40622

Dear Mr. Houlihan:

Enclosed please find two completed TC 56-50 forms, Application for Permit to Construct or Alter a Structure, for a new tower (Norwood) near Somerset, Kentucky. The Structure will have an overall height of 255 feet Above Ground Level.

Enclosed Form TC 56-50 and the attached exhibit include all the pertinent information for this existing tower structure. Also enclosed are copies of the completed FAA Form 7460-1 for the proposed site, a non-reduced 7-1/2' U.S. Geological Survey map indicating the exact location of the site, and a copy of the 1A Certification survey.

Please do not hesitate to contact the undersigned if there are questions regarding this matter.

Sincerely Leila Rezanavaz

Consulting Engineer

Enclosures

CC: Scott McCloud

s
s

C<sup>-</sup>

- INSTRUCTIONS ON REVERSE SIDE OF FORM -	TC 56-50 (Rev. 08/00) PAGE 1 OF 2
Kentucky Transportation Cabinet, Kentucky Airport Zoning Commission, 125 Ho	olmes Street, Frankfort KY 40622 Kentucky Aeronautical Study Number
APPLICATION FOR PERMIT TO CONSTRUCT OR	ALTER A STRUCTURE
<ul> <li>APPLICANT - Name, Address, Telephone, Fax, etc.</li> <li>Scott McCloud Bluegrass Wireless 2902 Ring Road Elizabethtown, KY 42702 Tel: 270-769-0339 Fax: 270-737-0580</li> <li>2. Representative of Applicant - Name, Address, Telephone, Fax Leila Rezanavaz Lukas, Nace, Gutierrez &amp; Sachs, Chartered 1650 Tysons Blvd., Suite 1500 McLean, VA 22102 T: 703-584-8668</li> <li>3. Application for: X New Construction Alteration Existing</li> <li>4. Duration: Permanent Temporary (MonthsDays)</li> <li>5. Work Schedule: Start <u>11/25/05 End 11/30/05</u></li> <li>6. Type: X Antenna Tower Crane Building Power Line</li> </ul>	<ul> <li>9. Latitude: <u>37</u> <u>08</u> <u>48.23</u> <u>"</u></li> <li>10. Longitude: <u>84</u> <u>37</u> <u>27.71</u> <u>"</u></li> <li>11. Datum: <u>NAD 83</u> <u>NAD 27</u> Other <u>17.71</u> <u>"</u></li> <li>12. Nearest Kentucky City <u>Somerset</u> <u>County: Pulaski</u></li> <li>13. Nearest Kentucky public use or Military airport: <u>Somerset-Pulaski County Airport</u></li> <li>14. Distance from #13 to Structure: <u>6.5 miles</u></li> <li>15. Direction from #13 to Structure: <u>North</u></li> <li>16. Site Elevation (<i>AMSL</i>): <u>1122</u> Feet</li> <li>17. Total Structure Height (<i>AGL</i>): <u>255</u> Feet</li> <li>18. Overall Height (#16 + #17) (<i>AMSL</i>): <u>1377</u> Feet</li> <li>19. Previous FAA and/or Kentucky Aeronautical Study Number(s): <u>N/A</u></li> <li>20. Description of Location: (Attach a USGS 7.5 minute Quadrangle Map or an Airport Layout Drawing with the precise site marked and any certified</li> </ul>
<ul> <li>Landfill Water Tank Other</li> <li>7. Marking/Painting and/or Lighting Preferred;</li> <li>Red Lights and Paint Ø Dual – Red &amp; Medium Intensity White</li> <li>White – Medium Intensity Dual – Red &amp; High Intensity White</li> <li>White – High Intensity Other</li> <li>8. FAA Aeronautical Study Number <u>N/A</u></li> </ul>	survey) Site is located 3.5 miles north of Somerset, KY
<ul> <li>21. Description of Proposal:</li> <li>Structure: The towe including top-mounted 255' AGL.</li> <li>Frequency: 1975-1982.5 MHz (Base Transmit)</li> <li>Max ERP: 250 Watts</li> </ul>	PCS antenna will have an overall height of
22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 746 been filed with the Federal Aviation Administration?	X Yes, When <u>11/10/05</u>
CERTIFICATION: 1 hereby certify that all the above statements made by me are to the statements made by me are to the statements made by me are to the statement of the	Regarangenergy 11/10/2005 Date 861 through 183.990) and Kentucky Administrative Regulations (602 KAR 050:
Commission Action:	C Administrator, KAZC
Disapproved	Date

BLUEGRASS CELLULAR 2902 Ring Road Elizabethtown, KY 42702

Norwood

#### **1A Letter**

Site Name:

Date: November 7, 2005 FSTAN Project No: 05-3598

For Aeronautical Study No.

Location:	City County	Norwood, KY Pulaski				
U.S.G.S. Qua	drangle:	Bobtown, KY				
(NAD 27)	LATITUDE	37° 08' 47.95"				
•	LONGITUDE	84° 37' 27.92"				
(NAD 83)	LATITUDE	37° 08' 48.23"				
	LONGITUDE	84° 37' 27.71"				
SITE ELEVA	TION (NAVD 88)	1122' ± AMSL				
	TOWER HEIGHT	240' ± FAA AGL				
TOWER HE	GHT WITH ANTENNA	265' ± FAA AGL				
OVERALL H	EIGHT ELEVATION	1387' ± AMSL				

I Certify, to the best of my knowledge and belief, that the horizontal and vertical datum as established from the referenced U.S.G.S. Quadrangle, Bobtown, is accurate to 1A Reporting requirements of  $\pm 20$  feet horizontally and  $\pm 3$  vertically.

The horizontal datum (coordinates) are in terms of the North American Datum of 1927 (NAD 27) and 1983 (NAD 83) and expressed as degrees, minutes and seconds.

The vertical datum (heights) are in terms of the National Geodetic Vertical Datum of 1988 and are determined to the nearest foot.

Kentucky State Plane Coordinates (South Zone) were established with Trimble Global Positioning Systems (GPS) receivers. This site has ties to the National Geodetic Reference System established by the National Geodetic Survey, formerly the U.S. Coast & Geodetic Survey by measurements to PID Station "GZ2627", designated as "SOMERPORT".



CONSULTANT

Frank L. Sellinger II, P.L.S. No. 3282 FSTAN Land Surveyors and Consulting Engineers 2313/2315 Crittenden Drive, Louisville, Ky. 40217 Phone: 502-635-5866 Fax: 502-636-5263



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1650 Tysons Boulevard, Suite 1500 McLean, Virginia 22102 703 584 8678 • 703 584 8696 Fax

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of counsel. John J. McAvoy\* J.K. Hage III\* Leonard S. Kolsky\* Hon. Gerald S. McGowan\*

\*NOT ADMITTED IN VA

November 10, 2005

Via Federal Express

Tel: 703-584-8668

EXPRESS PROCESSING CENTER Federal Aviation Administration Southwest Regional Office Air Traffic Airspace Branch, ASW-520 2601 Meacham Blvd. Fort Worth, TX 76137-4298

Dear FAA Evaluator:

Enclosed please find a completed FAA Form 7460-1, Notice of Proposed Construction/Alteration, for a new tower structure (Norwood) near Somerset, Kentucky. The height of the structure, including top-mounted PCS antennas, will be 255 feet Above Ground Level ("AGL").

The enclosed FAA Form 7460-1 and the attached Exhibit include all the pertinent information for the new structure at this site. Also enclosed is a non-reduced copy of a portion of the 7-1/2' US Geological Survey map illustrating the location of the proposed cell site. Additionally, the copy of the 1A Certification is enclosed. Please do not hesitate to contact the undersigned if there are questions regarding this matter.

Sincerely,

Leila Rezanavez Leila Rezanavez

Consulting Engineer

Enclosures

cc: Scott McCloud

lease Type or Print on This Form	,		Form App	roved OMB No. 2	120-0001
0	Failure To Provide All Requested Inform	mation May Delay Process	ing of Your Notice	FOR FAA US	
).S. Department of Transportation ederal Aviation Administration	Notice of Proposed C	onstruction or	Alteration	Aeronautical Str	dy Number -
1. Sponsor (person, company, et Attn. of: <u>Scott McCloud</u>	c. proposing this action) :	9. Latitude:37	<sup>D</sup> <u>8</u> <u>48</u> .	<u>23</u> "	
Jame: Bluegrass Cellular		10. Longitude:84	0 0** 0	7. 71"	
Address: 2902 Ring Road		10. Longitude: <u>84</u>	372	<u>/</u> <u>/1</u>	
Sity: Elizabethtown	State: KY Zip: 42702	11. Datum: 🛛 NAD 83	🗌 NAD 27 🛛 Oth	er	
Felephone: (270) 769-0339		12. Nearest: City: Somer	set	State:K	Y
2. Sponsor's Representative (if	other than #1)	13. Nearest Public-use (n	ot private-use) or Milit	ary Airport or Heli	port:
Attn. of: Leila Rezanavaz		Somerset-Pulaski Count	y Airport - J.T. Wilsor	n Field	
Name: Lukas, Nace, Gutierrez &	& Sachs, Chartered				
		14. Distance from #13. to	Structure: 6.5 miles		
		15. Direction from #13. to	Structure: North		
	State: <u>VA</u> Zip: <u>22102</u>	16. Site Elevation (AMSL	):	<u>1122</u>	ft.
Telephone: (703) 854-8668	Fax: (703) 584-8692	17. Total Structure Heigh	nt (AGL):	255	ft.
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6. Type: 🛛 Antenna Tower 📘 Landfill 🗔 Water Tank		20. Description of Locati Quadrangle Map with the			irvey.)
<ul> <li>White - Medium Intensity</li> <li>White - High Intensity</li> <li>8. FCC Antenna Structure Reg</li> </ul>	Dual - Red and Medium Intensity White Dual - Red and High Intensity White Other	Site is located 3.5 miles	north of Somerset, K	Ŷ	
21. Complete Description of Pr	oposal:				Power (kW)
The structure including top-mo	ounted PCS antennas has an overall heigh	t of 255' AGL		1975-1983 MHz	0.2
Notice is required by 14 Code of requirements of part 77 are subje	Federal Regulations, part 77 pursuant to 49 l ect to a civil penalty of \$1,000 per day until the	J.S.C., Section 44718. Pers e notice is received, pursuan	ons who knowingly an t to 49 U.S.C., section	d willingly violate 46301 (a).	the notice
	above statements made by me are true, in accordance with established marking a			edge. In additio	on, I agree to
Date	Typed or Printed name and Title of Person	Filing Notice	Signature	0.00	
11/10/2005	Leila Rezanavaz / Consulting En	gineer	Lerle	a kezi	anavez
FAA Form 7460-1 (2-99) Supercer	des Previous Edition			NSN: 00	52-00-012-000B

BLUEGRASS CELLULAR 2902 Ring Road Elizabethtown, KY 42702

Norwood

1A Letter

Site Name:

Date: November 7, 2005 FSTAN Project No: 05-3598

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1.....

## **GEOTECHNICAL ENGINEERING REPORT**

## PROPOSED NORWOOD COMMUNICATION TOWER 74 REID MILL ROAD SOMERSET, KENTUCKY

TERRACON PROJECT NO.: 57057366G November 14, 2005

**Prepared For:** 

RSB DESIGN Louisville, Kentucky

Prepared by:



Louisville, Kentucky

November 14, 2005



**Consulting Engineers & Scientists** 

Terracon Consultants, Inc. 5217 Linbar Drive, #309 Nashville, Tennessee 37211 Phone 615.333.6444 Fax 615.333.6443 www.terracon.com

RSB Design 6403 Mercury Drive Louisville, Kentucky 40293

Attention: Robin Becker

Re: Geotechnical Engineering Report Proposed Norwood Communication Tower 74 Reid Mill Road Somerset, Kentucky Terracon Project No. 57057366G

Dear Mr. Becker:

We are submitting, herewith, the results of our subsurface exploration for the referenced project. The purpose of this exploration was to obtain information on subsurface conditions at the proposed project site and, based on this information, to provide recommendations regarding the design and construction of foundations for the proposed tower.

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

Sincerely, **Tierracon** 

Shaikh Z. Rahman, EIT. Staff Engineer

n:\projects\2005\towers\57057366Norwood\57057366G.doc

Attachments: Geotechnical Engineering Report

Copies: (4) Addressee



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## APPENDIX

Boring Location Plan
Boring Log
General Notes
General Notes - Description of Rock Properties
Unified Soil Classification System

## **GEOTECHNICAL ENGINEERING REPORT**

## PROPOSED NORWOOD COMMUNICATION TOWER 74 REID MILL ROAD SOMERSET, KENTUCKY TERRACON PROJECT NO.: 57057366G November 14, 2005

#### **1.0 INTRODUCTION**

The purpose of this report is to describe the subsurface conditions encountered in the boring, analyze and evaluate the test data, and provide recommendations regarding the design and construction of foundations and earthwork for the proposed tower. One boring extending to a depth of about 21 feet below the existing ground surface was drilled at the site. An individual boring log and a boring location plan are included with this report.

### 2.0 PROJECT DESCRIPTION

Terracon understands the proposed project will consist of the construction of a 240-foot self supporting lattice tower. Exact tower loads are not available, but based on our past experience are anticipated to be as follows:

Vertical Load:	600 kips
Horizontal Shear:	80 kips
Uplift:	500 kips

A small, lightly loaded equipment building will also be constructed. Wall and floor loads for this building are not anticipated to exceed 1 kip per linear foot and 100 pounds per square foot, respectively. Existing grades within the 100-foot by 100-foot tower leasehold area reportedly vary between El. 1118 to El. 1123. Based on the existing grades and proposed construction, minimal cut/fill can be anticipated.

### 3.0 EXPLORATION PROCEDURES

#### 3.1 Field Exploration

The subsurface exploration consisted of drilling and sampling one boring at the site to a depth of about 21 feet below existing grade. The boring was advanced at the center of the tower, staked by the project surveyor. The surface elevation shown on the boring log was interpolated from the topographic plan provided by the client. The location of the boring should be considered accurate only to the degree implied by the means and methods used to define them. The approximate tower location is shown on the enclosed Soil Boring Location Diagram (Figure 1).

The boring was drilled with a truck-mounted rotary drill rig using hollow stem augers to advance the borehole. Representative soil samples were obtained by the split-barrel sampling procedure in general accordance with the appropriate ASTM standard. In the split-barrel sampling procedure, the number of blows required to advance a standard 2-inch O.D. split-barrel sampler the last 12 inches of the typical total 18-inch penetration by means of a 140-pound hammer with a free fall of 30 inches, is the standard penetration resistance (SPT) value (N-Value). This value is used to estimate the in-situ relative density of cohesionless soils and the consistency of cohesive soils. The sampling depths, penetration distance, and standard penetration resistance values are shown on the boring log. The samples were sealed and delivered to the laboratory for testing and classification.

Auger refusal was encountered at a depth of about 11 feet below the existing ground surface. The boring was extended into the refusal materials using a diamond bit attached to the outer barrel of a double core barrel. The inner barrel collected the cored material as the outer barrel was rotated at high speeds to cut the rock. The barrel was retrieved to the surface upon completion of each drill run. Once the core samples were retrieved, they were placed in a box and logged. The rock was later classified by an engineer and the "percent recovery" and rock quality designation (RQD) was determined.

The "percent recovery" is the ratio of the sample length retrieved to the drilled length, expressed as a percent. An indication of the actual in-situ rock quality is provided by calculating the sample's RQD. The RQD is the percentage of the length of broken cores retrieved which have core segments at least 4 inches in length compared to each drilled length. The RQD is related to rock soundness and quality as illustrated below:

Relation of RQD and In-situ Rock Quality								
RQD (%)	Rock Quality							
90 - 100	Excellent							
75 - 90	Good							
50 - 75	Fair							
25 - 50	Poor							
0 -25	Very Poor							

## Table 1 – Rock Quality Designation (RQD)

A field log of the boring was prepared by a subcontract driller. This log included visual classifications of the materials encountered during drilling as well as the driller's interpretation of the subsurface conditions between samples. The final boring log included with this report represents an interpretation of the driller's field log and a visual classification of the soil samples made by the Geotechnical Engineer.

## 3.2 Laboratory Testing

The samples were classified in the laboratory based on visual observation, texture and plasticity. The descriptions of the soils indicated on the boring log are in accordance with the enclosed General Notes and the Unified Soil Classification System. Estimated group symbols according to the Unified Soil Classification System are given on the boring log. A brief description of this classification system is attached to this report.

The laboratory testing program consisted of performing water content tests and an Atterberg Limits test on representative soil samples. A calibrated hand penetrometer was used to estimate the approximate unconfined compressive strength of the samples. The calibrated hand penetrometer has been correlated with unconfined compression tests and provides a better estimate of soil consistency than visual examination alone. Information from these tests was used in conjunction with field penetration test data to evaluate soil strength in-situ, volume change potential, and soil classification. Results of these tests are provided on the boring log.

Classification and descriptions of rock core samples are in accordance with the enclosed General Notes, and are based on visual and tactile observations. Petrographic analysis of thin sections may indicate other rock types. Percent recovery and rock quality designation (RQD) were calculated for these samples and are noted at their depths of occurrence on the boring log.

## 4.0 EXPLORATORY FINDINGS

## 4.1 Subsurface Conditions

Conditions encountered at the boring location are indicated on the boring log. Stratification boundaries on the boring log represent the approximate location of changes in soil types and the transition between materials may be gradual. Water levels shown on the boring log represent the conditions only at the time of our exploration. Based on the results of the boring, subsurface conditions on the project site can be generalized as follows.

In general our boring encountered about 4 inches of topsoil over native silty clays (CL-ML), and lean to fat clays (CL/CH) extending to auger refusal at about 11 feet below grade. The clays exhibited a very stiff to hard consistency based on standard penetration test (N) values in the range of 17 to 39 blows per foot (bpf).

Below a depth of about 11 feet, rock coring techniques were employed to sample the refusal materials. The core samples consist of slightly weathered, hard, closely jointed limestone. Core recovery was 80 percent. Bedrock quality is considered fair as defined by an RQD value

3

of 58 percent. Considering the competent nature of the bedrock, coring operations were terminated at a depth of approximately 21 feet below existing grade.

## 4.2 Site Geology

Based on a review of the Bobtown, Kentucky Geologic Quadrangle Map (1973), the site is underlain by Saint Louis Limestone. The Saint Louis Limestone is comprised of limestone, claystone and siltstone. The limestone is light-olive gray fine-grained and medium bedded. The claystone and siltstone are light-olive gray and greenish gray interbedded within the limestone. This formation can be from 70 to 110 feet thick.

It should be noted that the site is underlain by a limestone formation that is highly susceptible to dissolution along joints and bedding planes in the rock mass. This results in voids and solution channels within the rock strata and a highly irregular bedrock surface. The weathering of the bedrock and subsequent collapse or erosion of the overburden into these openings results in what is referred to as a karst topography. Any construction in karst topography is accompanied by some degree of risk for future internal soil erosion and ground subsidence that could affect the stability of the proposed structures. Our review of the available topographic and geologic mapping did not note any sinkholes on or around the site, or within a 1 mile radius of the property. Furthermore, the borings drilled at the site did not disclose any obvious signs of impending overburden collapse.

## 4.3 Groundwater Conditions

No groundwater was encountered during the auger drilling portion of the borehole. Water was used to advance the borehole during rock coring operations. The introduction of water into the borehole precluded obtaining accurate groundwater level readings at the time of drilling operations. Long term observation of the groundwater level in monitoring wells, sealed from the influence of surface water, would be required to obtain accurate groundwater levels on the site.

It should be recognized that fluctuations of the groundwater table may occur due to seasonal variations in the amount of rainfall, runoff and other factors not evident at the time the boring was performed. Therefore, groundwater levels during construction or at other times in the life of the structure may be higher or lower than the levels indicated on the boring log. The possibility of groundwater level fluctuations should be considered when developing the design and construction plans for the project.

## 5.0 ENGINEERING RECOMMENDATIONS

Based on the encountered subsurface conditions, the proposed tower can be either founded on drilled piers or on a mat foundation. The equipment building may be supported on shallow

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Proposed Norwood Communication Tower Somerset, Kentucky Terracon Project No.: 57057366G November 14, 2005

spread footings. Design recommendations for the tower drilled piers and mat foundation as well as shallow footings for the equipment building are presented in the following paragraphs.

## 5.1 Tower Foundation

**Tower Foundations - Drilled Pier Alternative:** The proposed tower can be supported on drilled pier foundations. Based on the results of the boring, the following tower foundation design parameters have been developed:

Depth * (feet)	Description	Allowable Skin Friction (psf)	Allowable End Bearing Pressure (psf)	Allowable Passive Pressure (psf)	Internal Angle of Friction (Degree)	Cohesion (psf)	Lateral Subgrade Modulus (pci)	Strain, & <sub>50</sub> (in/in)	
0 - 3	Topsoil and Silty Clay	Ignore	Ignore	Ignore	-		Ignore	Ignore	
3 - 11	Lean to Fat Clay	425	3,000	1,500	0	1,500	125	0.007	
11 - 21	Limestone	5,000	20,000	10,000	0	100,000	3,000	0.00001	

## **Drilled Pier Foundation Design Parameters**

\* Pier inspection is recommended to adjust pier length if variable soil/rock conditions are encountered.

\*\* A total unit weight of 115 and 160 pcf can be estimated for the lean clay and competent limestone, respectively.

\*\*\* The pier should be embedded a minimum of 3 feet into competent limestone to mobilize these higher rock strength parameters. Furthermore, it is assumed the rock socket will be extended using coring techniques rather than blasting/shooting.

The above indicated cohesion, friction angle, lateral subgrade modulus and strain values have no factors of safety, and the allowable skin friction and the passive resistances have factors of safety of 2. The cohesion, internal friction angle, lateral subgrade modulus and strain values given in the above table are based on the boring, published correlation values and Terracon's past experience with similar soil/rock types. These values should, therefore, be considered approximate. To mobilize the higher rock strength parameters, the pier should be socketed at least 3 feet into competent bedrock. Furthermore, it is assumed that the rock socket is developed using coring rather than blasting techniques. The allowable end bearing pressure provided in the table has an approximate factor of safety of at least 3. Total settlement of drilled piers designed using the above parameters is not anticipated to exceed 1/2 inch.

The upper 3 feet of silty clay should be ignored due to the potential affects of frost action and construction disturbance. To avoid a reduction in lateral and uplift resistance caused by variable subsurface conditions and or bedrock depths, the drawings should instruct the contractor to notify the engineer if subsurface conditions significantly different than encountered in the boring are disclosed during drilled pier installation. Under these circumstances, it may be necessary to adjust the overall length of the pier. To facilitate these adjustments and assure that the pier is embedded in suitable materials, it is recommended that a Terracon representative observe the drilled pier excavation.

If a bedrock socket is required, it is recommended that a minimum pier length and minimum competent rock socket length be stated on the design drawings. Bedrock was encountered in the boring below a depth of about 11 feet, but could vary between tower legs or if the tower is moved from the location of the boring. If the tower center is moved from the planned location, Terracon should be notified to review the recommendations and determine whether an additional boring is required. To facilitate pier length adjustments that may be necessary because of variable rock conditions, it is recommended that a Terracon representative observe the drilled pier excavation.

A drilled pier foundation should be designed with a minimum shaft diameter of 30 inches to facilitate clean out and possible dewatering of the pier excavation. Temporary casing may be required during the pier excavation in order to control possible groundwater seepage and support the sides of the excavation in weak soil zones. Care should be taken so that the sides and bottom of the excavations are not disturbed during construction. The bottom of the shaft should be free of loose soil or debris prior to reinforcing steel and concrete placement.

A concrete slump of at least 6 inches is recommended to facilitate temporary casing removal. It should be possible to remove the casing from a pier excavation during concrete placement provided that the concrete inside the casing is maintained at a sufficient level to resist any earth and hydrostatic pressures outside the casing during the entire casing removal procedure.

**Tower Foundations - Mat Foundation Alternative**: If desired, a mat foundation can be used to support the proposed tower. The mat foundation can be designed using the following natural soil/engineered fill parameters. These parameters are based on the findings of the boring, a review of published correlation values and Terracon's experience with similar soil conditions. These design parameters also assume that the base of the mat foundation will rest on natural soils or well-graded crushed stone that is compacted and tested on a full time basis.

Depth (feet)	Description					Coefficient of Friction, Tan $\delta$	Vertical Modulus of Subgrade Reaction (pci)
0-3	Topsoil and Ignore Silty Clays		Ignore	-			
≥ 3	Lean to Fat Clay or Crushed Stone Fill	3,000	Ignore	0.35	150		

## **Mat Foundation Design Parameters**

To assure that soft soils are not left under the mat foundation, it is recommended that a geotechnical engineer observe the foundation subgrade prior to concrete placement. Provided the above recommendations are followed, total mat foundation settlements are not anticipated to exceed about 1 inch. Differential settlement should not exceed 50 percent of the total

settlement. Differential settlements could reach 75 percent or more of the total settlement value, depending on the finished grades, any fill placement, and varying bedrock elevations.

## 5.2 Equipment Building Foundations

The proposed equipment shed may be supported on shallow footings bearing on stiff natural soils. The equipment building foundations should be dimensioned using a net allowable soil bearing pressure of 3,000 pounds per square foot (psf). In using net allowable soil pressures for footing dimensioning, the weight of the footings and backfill over the footings need not be considered. Furthermore, the footings should be at least 12 inches wide and a minimum of 1.5 feet square.

The geotechnical engineer or a qualified representative should observe the foundation excavations to verify that the bearing materials are suitable for support of the proposed loads. If, at the time of such observation, any soft soils are encountered at the design foundation elevation, the excavations should be extended downward so that the footings rest on stiff soils. If it is inconvenient to lower the footings, the proposed footing elevations may be re-established by backfilling after the undesirable material has been removed.

The recommended soil bearing value should be considered an upper limit, and any value less than that listed above would be acceptable for the foundation system. Using the value given, total settlement would be about 1 inch or less with differential settlements being less than 75 percent of total settlement. Footings should be placed at a depth of 2.0 feet, or greater, below finished exterior grade for protection against frost damage.

## 5.3 Parking and Drive Areas

The drive that accesses the site will be surfaced with crushed stone. Parking and drive areas that are surfaced with crushed stone should have a minimum thickness of 6 inches and be properly placed and compacted as outlined herein. The crushed stone should meet Kentucky Transportation Cabinet specifications and applicable local codes.

A paved section consisting only of crushed graded aggregate base course should be considered a high maintenance section. Regular care and maintenance is considered essential to the longevity and use of the section. Site grades should be maintained in such a manner as to allow for adequate surface runoff. Any potholes, depressions or excessive rutting that may develop should be repaired as soon as possible to reduce the possibility of degrading the soil subgrade.

## 5.4 Site Preparation

Site preparation should begin with the removal of any topsoil, loose, soft or otherwise unsuitable materials from the construction area. The geotechnical engineer should evaluate

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#### Proposed Norwood Communication Tower Somerset, Kentucky Terracon Project No.: 57057366G November 14, 2005

the actual stripping depth, along with any soft soils that require undercutting at the time of construction.

Any fill and backfill placed on the site should consist of approved materials that are free of organic matter and debris. Suitable fill material should consist of either granular material or low-plasticity cohesive soil (equipment building and roads only). Low-plasticity cohesive soil should have a liquid limit of less than 45 percent and a plasticity index of less than 25 percent. The on-site silty and lean clays are considered suitable for re-use as fill. However, because of the high silt content, stringent moisture control will need to be exercised for the silty clays to attain the desired compaction. It is recommended that during construction these soils should be further tested and evaluated prior to use as fill. Fill should not contain frozen material and it should not be placed on a frozen subgrade.

The fill should be placed and compacted in lifts of 9 inches or less in loose thickness. Fill placed below structures or used to provide lateral resistance should be compacted to at least 98 percent of the material's maximum standard Proctor dry density (ASTM D-698). Fill should be placed, compacted, and maintained at moisture contents within minus 1 to plus 3 percent of the optimum value determined by the standard Proctor test.

The geotechnical engineer should be retained to monitor fill placement on the project and to perform field density tests as each lift of fill is placed in order to evaluate compliance with the design requirements. Standard Proctor and Atterberg limits tests should be performed on the representative samples of fill materials before their use on the site.

## 6.0 GENERAL COMMENTS

Terracon should be retained to review the final design plans and specifications so comments can be made regarding interpretation and implementation of our geotechnical recommendations in the design and specifications. Terracon also should be retained to provide testing and observation during excavation, grading, foundation and construction phases of the project.

The analysis and recommendations presented in this report are based upon the data obtained from the boring performed at the indicated location and from other information discussed in this report. This report does not reflect variations that may occur across the site, or due to the modifying effects of weather. The nature and extent of such variations may not become evident until during or after construction. If variations appear, we should be immediately notified so that further evaluation and supplemental recommendations can be provided.

The scope of services for this project does not include either specifically or by implication any environmental or biological (e.g., mold, fungi, bacteria) assessment of the site or identification or prevention of pollutants, hazardous materials or conditions. If the owner is

concerned about the potential for such contamination or pollution, other studies should be undertaken.

This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either express or implied, are intended or made. Site safety, excavation support, and dewatering requirements are the responsibility of others. In the event that changes in the nature, design, or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless Terracon reviews the changes and either verifies or modifies the conclusions of this report in writing.

APPENDIX





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N/E	Ā	Ĩ. Į	WATER LEVEL OBSERVATIONS, ft	The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual	CORING TERMINATED		11 AUGER REFUSAL LIMESTONE, slightly weathered to fresh, brownish gray, hard, closely to moderately closely jointed, fine to medium grained			<u>LEAN IO FAI CLAY</u> , reddish brown, very stiff, moist	hard, moist	DESCRIPTION Approx. Surface Elev.: 1121 ft		Son	CLIENT RSB Design	LOG OF
				<u>a</u>		1100	1110				11118	DEPTH, ft.		PR(		BORING
l		2							유민	유민	≧P	USCS SYMBOL		PROJEC		NO.
						· · · · · · · · · · · · · · · · · · ·	R-1	4	 ω	- <u></u> -		NUMBER		Ĥ		
	an a						DB	SS	SS	SS	SS	TYPE	- sp			B-7
Гос	RIG	BOF	BOF				80%	18	18	18	18	RECOVERY, in.	SAMPLES	240'		
LOGGED		BORING CO	BORING ST				6 RQD 58%	17	17	17	31	SPT - N BLOWS / ft.		Self-SupportingTower Norwood Site		
	Hoosier	COMPLET	STARTED	*				24	23	22	1	WATER CONTENT, %		ppor		
SR JO		-ETED	ED	Calibrate								DRY UNIT WT		tingTo Site		
JOB # 5	FOREMAN			∌d Hand I				2500*	*0006	*0006		UNCONFINED STRENGTH, psf	TESTS	wer		P
57057366G	N GT	10-18-05	10-18-05	*Calibrated Hand Penetrometer						LL=56 PL=22 Pl=32		ATTERBERG LIMITS				Page 1 of 1

BOREHOLE 99 57057366G.GPJ TERRACON.GDT 11/13/05

## **GENERAL NOTES**

#### **DRILLING & SAMPLING SYMBOLS:**

SS:	Split Spoon - 1- <sup>3</sup> /8" I.D., 2" O.D., unless otherwise noted	HS:	Hollow Stem Auger
ST:	Thin-Walled Tube - 2" O.D., unless otherwise noted	PA:	Power Auger
RS:	Ring Sampler - 2.42" I.D., 3" O.D., unless otherwise noted	HA:	Hand Auger
DB:	Diamond Bit Coring - 4", N, B	RB:	Rock Bit
BS:	Bulk Sample or Auger Sample	WB:	Wash Boring or Mud Rotary

The number of blows required to advance a standard 2-inch O.D. split-spoon sampler (SS) the last 12 inches of the total 18-inch penetration with a 140-pound hammer falling 30 inches is considered the "Standard Penetration" or "N-value".

#### WATER LEVEL MEASUREMENT SYMBOLS:

WL:	Water Level	WS:	While Sampling	N/E:	Not Encountered
WCI:	Wet Cave in	WD:	While Drilling		
DCI:	Dry Cave in	BCR:	Before Casing Removal		
AB:	After Boring	ACR:	After Casing Removal		

Water levels indicated on the boring logs are the levels measured in the borings at the times indicated. Groundwater levels at other times and other locations across the site could vary. In pervious soils, the indicated levels may reflect the location of groundwater. In low permeability soils, the accurate determination of groundwater levels may not be possible with only short-term observations.

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

#### CONSISTENCY OF FINE-GRAINED SOILS

<u>Unconfined</u> <u>Compressive</u>	<u>Standard</u> Penetration or <u>N-value (SS)</u>	
<u>Strength, Qu, psf</u>	Blows/Ft.	<u>Consistency</u>
< 500	<2	Very Soft
500 - 1,000	2-3	Soft
1,001 - 2,000	4-7	Medium Stiff
2,001 - 4,000	8-15	Stiff
4,001 - 8,000	16-30	Very Stiff
8,000+	30+	Hard

#### **RELATIVE PROPORTIONS OF SAND AND GRAVEL**

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

#### **RELATIVE PROPORTIONS OF FINES**

<u>Descriptive Term(s) of other</u> constituents	<u>Percent of</u> Dry Weight
constituents	Dry Weight
Trace	< 5
With	5 – 12
Modifiers	> 12

#### **RELATIVE DENSITY OF COARSE-GRAINED SOILS**

Standard Penetration or N-value (SS) Blows/Ft. 0 - 3 4 - 9 10 - 29 30 - 49 50+

Very Loose Loose Medium Dense Dense

Very Dense

**Relative Density** 

#### **GRAIN SIZE TERMINOLOGY**

#### Major Component of Sample Boulders Cobbles Gravel Sand Silt or Clay

N

Over 12 in. (300mm) 12 in. to 3 in. (300mm to 75 mm) 3 in. to #4 sieve (75mm to 4.75 mm) #4 to #200 sieve (4.75mm to 0.075mm) Passing #200 Sieve (0.075mm)

**Particle Size** 

#### PLASTICITY DESCRIPTION

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

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## **GENERAL NOTES**

## Sedimentary Rock Classification

## DESCRIPTIVE ROCK CLASSIFICATION:

	Sedimentary rocks are composed of cemented clay, silt and sand sized particles. The most common minerals are clay, quartz and calcite. Rock composed primarily of calcite is called limestone; rock of sand size grains is called sandstone, and rock of clay and silt size grains is called mudstone or claystone, siltstone, or shale. Modifiers such as shaly, sandy, dolomitic, calcareous, carbonaceous, etc. are used to describe various constituents. Examples: sandy shale; calcareous sandstone.
LIMESTONE	Light to dark colored, crystalline to fine-grained texture, composed of CaCo3, reacts readily with HCI.
DOLOMITE	Light to dark colored, crystalline to fine-grained texture, composed of CaMg(CO <sub>3</sub> ) <sub>2</sub> , harder than limestone, reacts with HCI when powdered.
CHERT	Light to dark colored, very fine-grained texture, composed of micro-crystalline quartz (Si0₂), brittle, breaks into angular fragments, will scratch glass.
SHALE	Very fine-grained texture, composed of consolidated silt or clay, bedded in thin layers. The unlaminated equivalent is frequently referred to as siltstone, claystone or mudstone.
SANDSTONE	Usually light colored, coarse to fine texture, composed of cemented sand size grains of quartz, feldspar, etc. Cement usually is silica but may be such minerals as calcite, iron-oxide, or some other carbonate.
CONGLOMERATE	Rounded rock fragments of variable mineralogy varying in size from near sand to boulder size but usually pebble to cobble size (½ inch to 6 inches). Cemented together with various cemen- ting agents. Breccia is similar but composed of angular, fractured rock particles cemented together.

## **PHYSICAL PROPERTIES:**

## DEGREE OF WEATHERING

DEGREE OF W	EATHERING	BEDDING AND J	JOINT CHARACTERISTICS		
Slight	Slight decomposition of parent material on joints. May be color change.	Bed Thickness Very Thick Thick Medium	Joint Spacing Dimensions Very Wide > 10' Wide 3' - 10'		
Moderate	Some decomposition and color change throughout.	Thin Very Thin	Moderately Close1' -3'Close2" -1'Very Close.4" -2"		
High	Rock highly decomposed, may be ex- tremely broken.	Laminated	1"4"		
	tiemery bioken.	Bedding Plane	A plane dividing sedimentary rocks of the same or different lithology.		
HARDNESS AN	D DEGREE OF CEMENTATION	Joint	Fracture in rock, generally more or		
Limestone and	Dolomite:		less vertical or transverse to bedding, along which no appreciable move-		
Hard	Difficult to scratch with knife.		ment has occurred.		
Moderately Hard	Can be scratched easily with knife, cannot be scratched with fingernail.	Seam	Generally applies to bedding plane with an unspecified degree of		
Soft	Can be scratched with fingernail.		weathering.		
Shale, Siltstone	and Claystone				
Hard	Can be scratched easily with knife, cannot be scratched with fingernail.	SOLUTION AND Solid	VOID CONDITIONS Contains no voids.		
Moderately	-	Vuggy (Pitted)	Rock having small solution pits or		
Hard	Can be scratched with fingernail.		cavities up to ½ inch diameter, fre- quently with a mineral lining.		
Soft	Can be easily dented but not molded with fingers.	Porous	Containing numerous voids, pores, or other openings, which may or may		
Sandstone and	Conglomerate		not interconnect.		
Well Cemented	Capable of scratching a knife blade.	Cavernous	Containing cavities or caverns, some- times quite large.		
Cemented	Can be scratched with knife.				
Poorly Cemented	Can be broken apart easily with fingers.				
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## UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests*					Soil Classification
				Group Symbol	Group Name <sup>8</sup>
Coarse Grained Soils	Gravels	Clean Gravels	$Cu \ge 4$ and $1 \le Cc \le 3^{E}$	GW	Well-graded gravel <sup>F</sup>
More than 50% retained	More than 50% of coarse fraction retained on	Less than 5% fines <sup>c</sup>	$Cu < 4$ and/or $1 > Cc > 3^{E}$	GP	Poorly graded gravel <sup>F</sup>
on No. 200 sieve	No. 4 sieve	Gravels with Fines	Fines classify as ML or MH	GM	Silty gravel <sup>F,G,H</sup>
		More than 12% fines <sup>c</sup>	Fines classify as CL or CH	GC	Clayey gravel <sup>F,G,H</sup>
	Sands	Clean Sands	$Cu \ge 6$ and $1 \le Cc \le 3^{E}$	SW	Well-graded sand
50% or more of coarse fraction passes No. 4 sieve		Less than 5% fines <sup>o</sup> C	Cu < 6 and/or 1 > Cc > 3 <sup>E</sup>	SP	Poorly graded sand
	Sands with Fines	Fines classify as ML or MH	SM	Silty sand <sup>6.HJ</sup>	
		More than 12% fines <sup>D</sup>	Fines Classify as CL or CH	SC	Clayey sand <sup>e,H,I</sup>
Fine-Grained Soils	Silts and Clays	inorganic	PI > 7 and plots on or above "A" line <sup>1</sup>	CL	Lean clay <sup>KLM</sup>
50% or more passes the No. 200 sieve	Liquid limit less than 50		PI < 4 or plots below "A" line	ML	Silt <sup>KLM</sup>
		organic	Liquid limit - oven dried < 0.75	< 0.75 OI	Organic clay <sup>KLMN</sup>
			Liquid limit - not dried		Organic silt <sup>K,L,M,O</sup>
	Silts and Clays	inorganic	PI plots on or above "A" line	СН	Fat clay <sup>ĸ⊥</sup>
	Liquid limit 50 or more		PI lots below "A" line	МН	Elastic Silt
	organic	organic	Liquid limit - oven dried < 0.75	ОН	Organic clay
			Liquid limit - not dried		Organic silt <sup>KLMO</sup>
Highly organic soils	Primari	ly organic matter, dark in	color, and organic odor	PT	Peat

<sup>A</sup>Based on the material passing the 3-in. (75-mm) sieve

- <sup>B</sup> If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.
- <sup>C</sup>Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.
- <sup>D</sup>Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay

<sup>E</sup>Cu = D<sub>60</sub>/D<sub>10</sub> Cc = 
$$\frac{(D_{30})^2}{D_{10} \times D_{60}}$$

<sup>F</sup> If soil contains  $\geq$  15% sand, add "with sand" to group name.

 $^{\rm G}$  If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

- <sup>H</sup>If fines are organic, add "with organic fines" to group name.
- If soil contains  $\geq$  15% gravel, add "with gravel" to group name.
- <sup>J</sup> If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.
- <sup>K</sup> If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.
- $^{\rm L}$  If soil contains  $\geq$  30% plus No. 200 predominantly sand, add "sandy" to group name.
- <sup>M</sup> If soil contains  $\geq$  30% plus No. 200, predominantly gravel, add "gravelly" to group name.
- <sup>N</sup>Pl  $\geq$  4 and plots on or above "A" line.
- <sup>o</sup> PI < 4 or plots below "A" line.
- <sup>P</sup>PI plots on or above "A" line.
  - PI plots below "A" line.





#### (6) D100-0042-0041 240 (6) RWB 80014/120 (Future) Lightning Rod 1"x10' (Initial) 240 (3) T frame sector Mount (Future 240 Carrier 3) Flash Beacon Lighting (Initial) (6) RWB 80014/120 (Future) (3) T frame sector Mount (Initial) 240 (3) T frame sector Mount (Future (6) RWB 80014/120 (Future) 220 Carrier 4) (3) T frame sector Mount (Future Carrier 1) 220 HP6-122 (6) RWB 80014/120 (Future) 200 (3) T frame sector Mount (Future Carrier 2) 200

ELEVATION

#### **MATERIAL STRENGTH**

DESIGNED APPURTENANCE LOADING

TYPE

**ELEVATION** 

180

180

160

160

140

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

#### **TOWER DESIGN NOTES**

- Tower is located in Pulaski County, Kentucky. 1. Tower designed for a 70 mph basic wind in accordance with the TIA/EIA-222-F 2
- Standard.
- Tower is also designed for a 61 mph basic wind with 0 50 in ice.
   Deflections are based upon a 50 mph wind.
- 5. Final Design 11/30/05. JLR

TYPE

- Please see feedline distribution plan for proper feedline placement. Any deviation from 6. plan may invalidate tower design. In no case shall more than (6) 1 5/8" lines be exposed to wind on any face.
- 7.
- 8. Feedlines may be stacked up to two rows on the inside and outside face of the tower



 $\triangle$ 



TORQUE 27 kip-ft 61 mph WIND - 0.5000 in ICE AXIAL 40 K MOMENT 4386 kip-ft SHEAR 31 K

TORQUE 29 kip-ft REACTIONS - 70 mph WIND



Eastpointe Engineering Group, LLC	<sup>Job:</sup> Ell Job # 2121–Norwood	
4020 Tull Ave	Project: 240' SST/Pulaski County, KY	
Muskogee, OK	<sup>Client:</sup> Bluegrass Cellular <sup>Drawn by:</sup> Johnny L. Rhodes, PE	App'd:
Phone: 918.683.2169	Code: TIA/EIA-222-F Date: 12/01/05	Scale: NTS
FAX: 918.682.7618	Path; Z_Drafilag\Drawings\Jobs\2100-2199\2121\Final Tower Design\240sst eri	Dwg No. E-1





Scale: NTS

Dwg No. E-7

# **DRILLED PIER FOUNDATION DESIGN**

0.5

Vertical Bars	(12) #8 bars, 12' long
<b>Fies</b>	#5 bars @ 6" c/c for the first 6' then 12" c/c thereafter

#### **General Notes**

- 1. Concrete shall be placed in accordance with ACI318-02, latest revision.
- 2. Concrete shall have a minimum 28 day compressive strength of 3000 PSI.
- 3. Rebar to conform to ASTM A615 grade 60.
- 4. Rebar used for ties may be A615 grade 40.
- 5. All rebar to have a minimum of 3" clear cover.
- ô. All exposed concrete corners to have 3/4" chamfer.
- 7. Bottom and side surfaces to rest on undisturbed soil.
- 3. Contractor shall be responsible to review and follow all recommendations of the geotechnical report.





Soil values obtained from Terracon soils report #57057364G dated 11/7/05

EASTPOINTE ENGINEERING GROUP, LLC	Client:	Bluegrass Cellular		
4020 Tull Ave. Muskogee, OK 74403Phone 918.683.2169Fax:918.682.7618	Site:	Norwood		
R	Job:	2121	Drawn by:	JLR
	Scale:	NTS	Date:	12/01/05




(IN FEET)

SCALE 1" = 80

#### SURVEYORS NOTES

SOURCE OF BEARING IS A G.P.S. OBSERVATION ON OCTOBER 17, 2005.

SITE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN HEREON OR NOT.

NO SEARCH OF PUBLIC RECORDS HAS BEEN PERFORMED BY THIS FIRM TO DETERMINE ANY DEFECTS AND/OR AMBIGUITIES IN THE TITLE OF THE PARENT TRACT

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

EXISTING CONTOURS ARE AT ONE FOOT INTERVALS

#### LAND SURVEYOR'S CERTIFICATE

TYPE "A" SURVEY- UNADJUSTED TRAVERSE CLOSURE BETTER THAN 1 IN 10.000 TO ALL PARTIES INTERESTED IN TITLE TO PREMISES SURVEYED I hereby certify that this plat and survey were made under my supervision, and that the angular and linear measurements, as witnessed by monuments shown hereon, are true and correct to the best of my knowledge and belief. This survey and plat meets or exceeds the minimum standards of the governing authorities. This property is subject to any recorded easements or right of ways pot shown hereon. 11-3-05 Ky. Reg. No. 3282 CELLULAR COMMUNICATION TOWER SITE SURVEY REFERENCED AS "EXHIBIT B" DATH I HAVE REVIEWED THE FLOOD INSURANCE RATE MAPS (FIRM) MAP NO. 210197 0100 B DATED 07-16-90 AND THE PROPOSED LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PRONE AREA. THE PROPOSED LEASE AREA IS LOCATED IN ZONE X.



# BLUEGRASS

**PROJECT NAME: PROJECT NUMBER: SITE ADDRESS:** 

NORWOOD **BG-042** 74 REID MILL RD. SOMERSET, KY. 42503

APPROVAL SIGNATURES	
BLUEGRASS CELLULAR CONSTRUCTION SUPERVISOR: DATE:	
CITY REPRESENTATIVE:	
<u></u>	
PROPERTY OWNER/OWNERS:	
DATE:	
TOWER OWNER/OWNERS:	
 DATE:	

DESCRIPTION	REVISION
TITLE SHEET	
SITE SURVEY	
GENERAL NOTES	
ANTENNA NOTES	
ANTENNA DETAILS	
GENERATOR DTLS.	
FOUNDATION DETAILS	
OVERALL SITE PLAN	
SITE PLAN	
SITE ELEVATION	
BUILDING ELEVATIONS	
FENCE DETAILS	
SITE PLAN - ELECTRICAL	
ELECTRICAL DETAILS	
GROUNDING DESIGN	
ELEC. PLAN - GROUNDING	
GROUNDING DETAILS	
	SITE SURVEY GENERAL NOTES ANTENNA NOTES ANTENNA DETAILS GENERATOR DTLS. FOUNDATION DETAILS OVERALL SITE PLAN SITE PLAN SITE PLAN BUILDING ELEVATIONS FENCE DETAILS SITE PLAN - ELECTRICAL ELECTRICAL DETAILS GROUNDING DESIGN ELEC. PLAN - GROUNDING

PULASKI **COUNTY:** 

# **TOWER LATITUDE & LONGITUDE**

N 37\* 08 47.95" W 84\* 37' 27.92"



F.S. Land Company T. Alan Neal Company Land Surveyors and Consulting Engineers PO Box 17546 2313/2315 Crittenden Drive Louisville, KY 40217 Phone: (502) 635-5866 (502) 636-5111 Fax: (502) 636-5263

## **DESIGNED BY**



BLUEGRASS CELLULAR 2902 RING ROAD. ELIZABETHTOWN, KY. 42702 PHONE: (270) 769-0339

site.

PROP

TOWER

POWER

TELEP

BLUEG





From Elizabethtown, Kentucky: travel South on I-65 to Exit 43, which is Cumberland Parkway. Travel east on Cumberland Parkway and head towards Somerset, Ky. When you get to Somerset, take HWY 27 North approx. 3 ½ miles to a street on the right called Abbot Road. Take a right on Abbot road and follow until it deadends into S.R. 1247. Take a left on S.R. 1247 and travel north to the first street on the right, which is Reid Mill Road. Turn right on Reid Mill Road and travel 2 or 3 houses on the left. Site is located in field with barn and silo. Go through double cattle gate and follow back to

# SITE DATA

PERTY OWNER:	MOLET J. DYER	
R OWNER:	BLUEGRASS CELLULAR (270) 769-0339	
R COMPANY:	KENTUCKY UTILITIES (859) 367-5631	
PHONE COMPA	NY: VERIZON (800)595-3400	
GRASS CONSTR	UCTION SUPERVISOR: 1	ee Hill (270)734-1028



(N FEET) SCALE: 1" = 80"

#### SURVEYORS NOTES

SOURCE OF BEARING IS A G.P.S. OBSERVATION ON OCTOBER 17, 2005.

STE SHOWN SUBJECT TO RIGHT OF WAYS AND EASEMENTS SHOWN

no search of public records has been performed by this from to determine my defects and/or ambruttes in the title of the parent tract.

THIS DRAWING DOES NOT REPRESENT A BOUNDARY SURVEY.

EXISTING CONTOURS ARE AT ONE FOOT INTERNALS.

#### LAND SURVEYOR'S CERTIFICATE

TYPE "X" SURVEY: UNHDIUSTED TRIVERSE CLOSURE BETTER THAN 1 IN 10,000.

to All parties interested in title to premises surveyed I hereby certify that this plot and survey were made under my supervision, and that the angular and linear measurements, witnessed by monuments shown hereon, are true and correct

to the best of my knowledge and belief. This survey and plat meets or exceeds the minimum standards of the governing authorities.

This property is subject to any recorded easements or right of ways not shown hereon.

ellinger, ll	Ky. Reg. No. 3282
ICATION TOWE	ER SITE SURVEY'
	DATE:
	DATE:

i have reviewed the flood insurance rate maps (FIRM) map no. 210197 0100 B DATED 07-16-90 AND THE PROPOSED LEASE AREA DOES NOT APPEAR TO BE IN A FLOOD PROME AREA. THE PROPOSED LEASE AREA IS LOCATED IN ZONE X.



CONCRETE GENERAL NOTES:

1.

ALL CONCRETE SHALL CONFORM TO THE SPECIFICATION FOR STRUCTURAL CONCRETE FOR BUILDINGS, ACI-301.

- CAST-IN-PLACE CONCRETE: THE PROPORTIONING OF MATERIAL SHALL BE BASED ON THE REQUIREMENTS FOR A PLASTIC AND WORKABLE MIX WITH THE USE OF NOT LESS THAN SIX (6) SACKS OF CEMENT PER CUBIC YARD PRODUCING CONCRETE WITH A 28-DAY DEVELOPED COMPRESSIVE STRENGTH OF NOT LESS THAN 4,000 POUNDS PER SQUARE INCH. 2.
- 3.
- DETAILS, FABRICATION, AND PLACING OF REINFORCING SHALL CONFORM TO APPLICABLE PROVISIONS OF ACI 315 AND ACI 318. 4.
- 5.
- FILL SHALL BE 90% OF MAXIMUM DENSITY AS DETERMINED IN ACCORDANCE WITH ASTM-D-698 (STANDARD PROCTOR)(U.N.O.). 6.
- SOILS REPORT BY TERRACON AND TESTING, INC.,

   GEOTECHNICAL REPORT: BORE HOLE LOCATIONS;

   AND FINDINGS OF SUBSURFACE MATERIALS. COPIES OF THE REPORT MAY

   BE OBTAINED FROM ARCHITECT.

   A. SWITCHGEAR BUILDING FOUNDATION:

   (a) SOIL BEARING PRESSURE.

   I OWER FOUNDATION:

   (a) ROCK SOCKET DESIGN PARAMETERS:

   (i) END BEARING PRESSURE

   (c) SIDE FRICTION.

   (c) SIDE FRICTION.

  7.
- STRUCTURAL STEEL: ALL ROLLED STEEL PLATES, SHAPES, BARS, AND MISCELLANEOUS ITEMS SHALL BE STRUCTURAL QUALITY CARBON STEEL COMPLYING WITH ASTM A36 (MINIMUM YIELD 36,000 PSI).
- 9. CONCRETE SEALER: 1. EUCO-GUARD 100 BY "THE EUCLID CHEMICAL CO." 2. MASTERSEAL SL BY "MASTER BUILDERS".
- 10. CONFIRM ANCHOR BOLT LOCATIONS WITH TOWER MANUFACTURER.

#### GENERAL NOTES:

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

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

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

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

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

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

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

8) THE CONTRACTOR TO VERIFY WITH OWNER THAT FAA APPROVAL HAS BEEN RECEIVED BEFORE STACKING OF TOWER.

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

10) THE CONTRACTOR IS RESPONSIBLE FOR ALL ON SITE WORK MEANS AND METHODS, WORK TO BE DONE IN COMPLIANCE WITH OSHA RULES AND REGULATIONS.

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

12) THE CONTRACTOR RESPONSIBLE FOR ANY SEED AND STRAW NECESSARY TO DAMAGED AREAS.

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

#### GRADING & EXCAVATING NOTES:

1) CONTRACTOR TO COORDINATE WITH PROPERTY OWNER CONSTRUCTION SCHEDULE TO AVOID ANY INTERRUPTIONS TO PROPERTY OWNERS OPERATIONS

2) CONTRACTOR TO ENSURE POSITIVE DRAINAGE DURING AND AFTER CONSTRUCTION IS COMPLETE.

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

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

#### 5) BACK FILLING:

- EXCAVATED AREA SHALL BE CLEARED FROM STONES OR CLODS OVER 2 1/2" MAXIMUM SIZE.

- SHALL BE PLACED IN LAYERS OF 6" AND COMPACTED TO A 95% STANDARD PROCTOR, USE A 90% STANDARD PROCTOR IN GRASSED / LANDSCAPED AREAS WHERE REQUIRED - SHALL BE APPROVED MATERIALS CONSISTING OF SANDY

CLAY, GRAVEL AND SAND, SOFT SHALE, EARTH OR LOAM. CONSULT WITH ENGINEER PRIOR TO FILL BEING ADDED.

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

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

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

9) IF SOUND SOIL IS NOT REACHED AT DESIGNATED EXCAVATION DEPTH, THE POOR SOIL IS TO BE EXCAVATED TO ITS FULL DEPTH AND EITHER REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION TO BE FILLED WITH THE SAME QUALITY CONCRETE SPECIFIED FOR THE FOUNDATION. PLEASE CONTACT OWNER & ENGINEER FOR RECOMMENDATIONS.

10) MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATIONS TO BE USED IF EXCAVATION EXCEEDED THE OVERALL REQUIRED DEPTH. FOR STABILIZATION OF THE BOTTOM OF THE EXCAVATION, CRUSHED STONE MAY BE USED. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS. PLEASE CONTACT ENGINEER FOR RECOMMENDATIONS.

#### SYMBOLS LEGEND

$\langle - \rangle$	KEYNOTE
€0	INSPEC. SLEEVE / GRND ROD
o	INSPECTION SLEEVE
•	CAD WELD CONNECTION
Т	TRANSFORMER
	LIGHTNING SUPPRESSOR
	SWITCH (DISCONNECT)
ட	METER PACK
P	POWER
G	GAS LINE
W	WATER LINE
<del></del>	SANITARY SEWER
T	TELEPHONE
<del>S</del> SD	STORM SEWER DRAIN
X	FENCE

\* INSTALL CONCRETE PADS FOR BUILDING, PROPANE TANK, GENERATOR PAD.

- \* INSTALL ELECTRIC AND GROUND FIELD FOR COMPOUND.
- \* EXCAVATION TO COMPOUND TO INCLUDE WEED CONTROL MAT.
- \* SITE TO HAVE PROPER DRAINAGE & EROSION CONTROL . (CROWNED FORMATION)

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

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

\* GC WILL BE RESPONSIBLE FOR OFF LOADING AND STACKING OF TOWER WHEN APPLICABLE.

\* GC WILL BE RESPONSIBLE FOR MOUNTING ALL LINES AND ANTENNAS.

\* GC WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ICE BRIDGE.

\* GC WILL BE RESPONSIBLE FOR SCHEDULING PROPANE TANK DELIVERY AND HOOK-UP.

\* GC WILL BE RESPONSIBLE FOR CLEANING THE INSIDE OF BUILDING BEFORE I HAND SITE OVER TO OPERATIONS DEPARTMENT. THIS WILL INCLUDE SUPPLYING TRASHCAN, TRASH BAGS, BROOM, AND DOORMAT FOR BUILDING.

PAYING NECESSARY FEES REQUIRED.

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

\* ALL ALARMS WILL NEED TO BE HOOKED UP BY GC, THIS IS TO INCLUDE: GENERATOR ALARM AND TOWER LIGHT ALARM. (TO BLUEGRASS CELLULAR INC. ALARM BLOCK)

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

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

\* GC WILL BE RESPONSIBLE FOR INSTALLATION OF ALL FENCING.

\* ALL TRASH AND DEBRIS TO BE REMOVED BY GC

\* ALL BIDS ARE TO BE BROKE DOWN AS FOLLOWS:

- \* EXCAVATING, ROAD, SITE WORK, ETC.
- \* TOWER FOUNDATION
- \* TOWER ERECTION
- \* LINES AND ANTENNAS \* ALL FOUNDATION SLABS
- \* ELECTRICAL AND GROUNDING
- \* FENCING
- \* ICE BRIDGE

\* GC TO SEPERATE ALL MATERIALS & LABOR IN BID.

NOTE: THIS SCOPE OF WORK IS A BASIC OUTLINE FOR THE GENERAL CONTRACTOR TO FOLLOW AND DOES NOT EXCLUDE OTHER DUTIES ASSOCIATED WITH THE GENERAL CONTRACTORS RESPONSIBILITIES TO COMPLETE THE CELLULAR SITE. IT IS RECOMMENDED THAT THE SPECIFICATIONS MANUAL BE READ PRIOR TO CONSTRUCTION.

\* GC WILL BE RESPONSIBLE FOR APPLYING FOR ELECTRICAL SERVICE AND

				6403 MERCURY DRIVE LOUISVILLE, EV. 40291	[502] 599-9427 Fax [502] 231-3656
TE REVISION					
NO. DATE					
	Ţ	STANDARD CELLULAR SITE			74 REID MILL RD. SOMERSET, KY. 42503
DRAWN BY:	R. BECKER	ISSUE DATE:		SCALE:	LISTED
	SHE Ge	en Not	er te	a	R 

# BLUEGRASS CELLULAR GENERAL NOTES & ANTENNA SPECS

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

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

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

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

LINES ARE TO BE SECURED TO ICE BRIDGE

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

ALL COAX CONNECTIONS ARE TO BE WEATHER PROOFED.

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

ALL TRASH AND REFUGE IS TO BE PROPERLY DISPOSED OF.

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

POLYPHASERS OR LIKE UNITS TO BE INSTALLED AND GROUNDED TO GROUND BAR INSIDE BUILDING AT WAVE GUIDE ENTRANCE. GO TO SUPPLY GROUND CABLE & LUGS.

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

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

TRAPEZE KIT TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

CONTRACTOR TO SUPPLY & INSTALL GPS BRACKET & CABLING

# ANTENNA SPECS

	TYPE	SIZE L x W x D	NUMBER	AZIMUTH	MOUNTING HEIGHT
ANTENNA (PRIMARY)	DAPA 59210	L=70.3" ₩=6.3" D=2.7"	6	90*, 195*, 345*	240'-0" C/L
ANTENNA (SECONDARY)					

# ANTENNA MOUNTING HARDW

	TYPE	SIZE	NUMBER	MOUNTING HEIGHT
MOUNT (PRIMARY)	TRI-SECTOR MOUNT		3	VERIFY WITH PROJECT MANAGER
MOUNT (SECONDARY)				

# ANTENNA TRANSMISSION LIN

	TYPE	SIZE	NUMBER	LENGTH
TRANSMISSION LINE (PRIMARY)	ANDREW	1-5/8"	6	FIELD VERIFY
TRANSMISSION LINE (SECONDARY)			:	

# DISH SPECS

	MICROWAVE/DONOR	SIZE	NUMBER	AZIMUTH	MOUNTING HEIGHT
DISH #1					
DISH #2					

# DISH MOUNT SPECS

	TYPE	SIZE	NUMBER	MOUNTING HEIGHT
MOUNT #1				
MOUNT #2				

# DISH TRANSMISSION LINES

	TYPE	SIZE	NUMBER	LENGTH
TRANSMISSION LINE #1				
TRANSMISSION LINE #2				

# ANTENNA SYNOPSIS

- \* ANTENNAS TO HAVE A 2\* ELECTRICAL DOWNTILT
- \* ANTENNA FREQUENCY 1975.00 1982.50

ARE	SPECS

		1

				[202] 539-9427 Fax [502] 231-3555
REVISION				
NO. DATE				
		SIANDARD CELLULAR SIIE	NORWOOD	74 REID MILL RD. SOMERSET, KY. 42503
DRAWN BY:	R. BECKER			ER



				(302) 599.9427 Fax (502) 531-3556
REVISION				
NO. DATE				
NO.				
		SIANDARD CELLULAR SILE	NORWOOD	74 REID MILL RD. SOMERSET, KY. 42503
DRAWN BY:	T BECKER			ER









GENERAL NOTES:

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

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

3) ALL CONCRETE TO HAVE SPECIFIED COATED SEALANT PER STRUCTURAL RECOMMENDATIONS.

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

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

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

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

8) FOR GRADING DETAILS, SEE GENERAL NOTESHEET

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

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











BLDG. SIDE



NO SCALE

-5'-0" X 5'-0" X 8" CONCRETE STOOP



ICE BRIDGE DETAIL





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

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

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

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

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

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

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

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

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

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

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

SYMBOLS LEGEN	n
<u>-</u>	KEYNDTE
•	INSPEC. SLEEVE / GRND RDD INSPECTION SLEEVE CAD WELD CONNECTION
Т	TRANSFORMER
LA	LIGHTNING SUPPRESSOR
	SWITCH (DISCONNECT)
<del>ال</del>	METER PACK
PP	PDVER
G	GAS LINE
₩	WATER LINE
	SANITARY SEWER
T	TELEPHONE
	STURM SEWER DRAIN
X	FENCE









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

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

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

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

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

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

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

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

(TYPICAL) SPACING OF RODS INDICATED ON PLANS.

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

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

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

5 FOR TOWER FRAME GROUNDING, REMOVE GALVANIZED COATING COMPLETELY AT SPOT TO "CAD WELD" TO AND CLEAN. #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO BE CAD WELDED APPROXIMATELY 1'-0" ABOVE FOUNDATION OR AT FLANGE IF PROVIDED BY TOWER MANUFACTURER. EXTEND CONDUCTOR TO GROUND RING. RIGHT ANGLES NOT ACCEPTED ALL

CONTRACTOR TO FOLLOW LYNCOLES MAIN GROUNDING DESIGN LAYOUT AS WELL AS THIS DETAILED DESIGN & VERIFY UTILITY GROUNDING REQUIREMENTS WITH LOCAL UTILITY COMPANY





NO SCALE



**Land Surveyors and Consulting Engineers** Formerly F.S. Land & T. Alan Neal Companies

### Site Name: Norwood

## **DRIVE TO DIRECTIONS**

From the County seat in Somerset, Kentucky take State Route 1247 (North Main Street) and proceed North 4.2 miles to Reid Mill Road in Norwood, Kentucky. Turn right onto Reid Mill Road and proceed East 500' to the access entrance located on the North (Left) side of Reid Mill Road. Follow the existing fence line North to the site located approximately 700' from Reid Mill Road. The site is located approximately 50' East of the existing fence line.

# **OPTION TO LEASE AND LEASE AGREEMENT**

I.

## **OPTION TO LEASE REAL PROPERTY**

THIS OPTION TO LEASE REAL PROPERTY (the "Option Agreement") is made and entered into this  $\underline{/_e}$  day of  $\underline{\partial c / o b er}$ , 2005, by and between <u>Violet J. Dyer</u> whose address is <u>110</u> <u>Reid Mill Road, Somerset, KY 42503</u> (the "Optionor (s)" and <u>Bluegrass Wireless LLC, a</u> <u>Kentucky limited liability company</u> with principal office and place of business at <u>2902 Ring</u> <u>Road, Elizabethtown, KY 42701</u> (the "Optionee").

# WITNESSETH:

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

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

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

1. In consideration of <u>One Thousand Two Hundred Dollars and Zero Cents</u> (\$1,200.00) paid by the Optionee to the Optionor(s) (the "Option Consideration"), the receipt of which is hereby acknowledged by the Optionor(s), the Optionor(s) hereby grants to the Optionee an exclusive and irrevocable option to lease the Property (the "Option"), upon the terms and conditions hereinafter set forth, upon the exercise of the Option at any time before 4:00 p.m. prevailing time on <u>Oct. 7</u>, <u>Ole.</u>, (the "Option Period") as set forth in Paragraph <u>5</u> thereof.

<u>.....</u>

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- 2. The parties hereto anticipate that the Property comprises approximately a <u>One Hundred Foot by One Hundred Foot</u> area, and that a right of way will be given by the Optionor(s) for the purposes of ingress and egress throughout the term of the lease. The Optionee shall obtain an accurate survey of the Property by a registered land surveyor licensed in the Commonwealth of Kentucky at the sole expense of the Optionee. A copy of the survey shall be provided to the Optionor(s). The description of the Property shall include the number of acres determined by the surveyor. The Optionee shall obtain said survey within a reasonable time following the date of the Option Agreement.
- 3. During the term of the Option, the Optionee may enter onto the Property at its own risk to obtain soil samples and to bore soil for the purposes of determining the suitability of the Property for a communications tower.
- 4. Upon the Optionee's proper exercise of the Option in accordance with Paragraph 5 hereof, the Optionor(s) shall be deemed to have immediately executed, acknowledged and delivered to the Optionee the Lease Agreement contained in Section II hereof. The description of the Property shall be that determined by the registered land surveyor in accordance with Paragraph 2 hereof.

5. If the Optionee elects to exercise the Option in accordance with the terms hereof, notice of such election shall be deemed sufficient if personally delivered or sent by registered or certified mail, return receipt requested, to the address of the Optionor(s) set forth in Paragraph <u>14</u> hereof.

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- 6. The Optionor(s) agrees not to sell, lease or offer for sale or lease the Property during the term of this Option or any renewal or extension of the Option.
- 7. In the event the Optionee fails to exercise the Option as set forth herein (unless such failure is due to the discovery of a defect in the Property or other matter unsatisfactory to the Optionee), the Optionor(s) shall have the right to retain the Option Consideration.
- 8. The Optionee may assign this Option with written consent of the Optionor(s), which consent shall not be unreasonably withheld, and upon any assignment such assignee shall have all the rights, remedies and obligations as if it were the original Optionee hereunder. From and after any such assignment, the term "Optionee" shall refer to such assignee.
- 9. Each party hereto shall bear any and all of its own expenses in connection with the negotiation, execution or settlement of this Option.
- 10. Risk of loss with respect to the Property during the term of this Option and during the term of the lease shall be upon the Optionor(s). If, during the term of the Option, any portion of the Property shall be acquired by public authority under the right or threat of eminent domain, the Optionee may, at its sole option, either (i) exercise the

Option, and in such event, all sums received from the public authority by the Optionor(s) by reason of the taking of a portion of the Property shall reduce the rent due under the lease, or (ii) terminate this Option and thereupon the Optionor(s) shall be obligated to return to the Optionee the full amount of the Option Consideration previously paid to the Optionor(s) in "good and collected funds."

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- 11. The parties hereto represent to each other that neither has engaged any broker to represent their interests in connection with the transactions contemplated hereby, and each agrees to indemnify the other against any and all claims made by any brokers engaged or purported to be engaged by the other for brokerage commissions or fees in connection with the transactions contemplated hereby.
- 12. The Optionor(s) represents, warrants and covenants to the Optionee that the Optionor(s) has not caused or permitted, and shall not cause or permit, and to the best of Optionor(s)' knowledge no other person has caused or permitted any hazardous material (as defined by any applicable federal, state or local law, rule or regulation) to be brought upon, placed, held, located or disposed of at the Property. In the event any such contamination occurs for which the Optionee becomes legally liable, the Optionor(s) shall indemnify the Optionee against all claims, damages, judgments, penalties and costs and expenses, including reasonable attorneys' fees, which Optionee may incur.
- 13. This Option Agreement and the rights and obligations of the parties hereto shall be construed in accordance with the laws of the Commonwealth of Kentucky.

14. For the purposes of giving notice as permitted or required herein, the address of the Optionor(s)shall be: <u>110 Reid Mill Road, Somerset, KY</u> <u>42503</u>; the Optionee's address shall be: <u>2902 Ring Road, Elizabethtown, KY 42701.</u>

<u>....</u>

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 The Optionee shall have the right, in its sole discretion, to record this Option in the Office of the Clerk of the County Court of <u>Pulaski</u> County, <u>Kentucky</u>.

# II. LEASE AGREEMENT

- 16. In the event the Optionee elects to exercise the Option to lease the Property, the terms of the Lease Agreement ("Lease Agreement" or "Lease") shall become immediately effective upon such exercise and shall be as follows.
  - 1. The term of the Lease shall commence on the date that the Optionor(s) receives proper notice that the Optionee has exercised the Option, pursuant to Paragraph 5 therein. The initial term shall expire <u>five (5) year(s)</u> from the commencement date of the Lease Agreement and shall include <u>three (3)</u> <u>additional five (5)-year terms</u> per the Lease Agreement. Optionee may, by providing written notice at least sixty (60) days prior to the expiration of the original or any renewal Lease term, elect to unilaterally terminate this Lease at the end of any original or renewal Lease term. Such notice must be personally delivered or sent via registered or certified mail, return receipt requested, to the address of the Optioner(s) set forth in Paragraph 14 hereof. The Lease amount shall be adjusted at the end of each term by an increase of

<sup>&</sup>lt;u> 12%</u>.

2. The Optionee shall pay to the Optionor(s) rent for the Property in the sum of <u>Six Thousand Dollars and Zero Cents (\$6,000.00</u>) yearly, to be paid in advance. All rent payments shall be personally delivered or mailed to the Optionor(s) at the address set forth in Paragraph <u>14</u> hereof. Any check payment of the rent due under the Lease shall be payable to the order of Optionor(s).

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- 3. The Optionee shall be entitled to use and occupy the Property for the purpose of erecting, maintaining and operating a communications tower and communications facilities thereon and for all such other uses as Optionee may, in its sole discretion, deem necessary in connection therewith.
- 4. The Optionor(s) shall be responsible for the payment of all real estate taxes which shall be assessed against the Property during the term of the lease. The Optionee shall pay all charges for heat, water, gas, electricity, sewer use charges and any other utility used or consumed on the Property. The Optionee shall, at its own cost and expense, maintain and keep in full force and effect during the term of the lease public liability insurance with coverage in the amount of at least one million dollars (\$1,000,000.00) per person for bodily injury, disease, or death and shall maintain property insurance on any property the Optionee located on the Property.
- 5. The Optionee may assign the lease. The Optionee may sublet all or part of the space on the tower or ground space.

6. The Optionor(s) covenants that upon the Optionee's payment of the rent agreed upon herein, as well as Optionee's observing and performing all of the covenants and conditions contained in the Lease, the Optionee may peacefully and quietly enjoy the Property subject to the terms and conditions set forth in

.

- 7. The Optionee agrees to maintain an access road in a passable manner for the term of the lease.
- 17. This Option and Lease Agreement contains the entire agreement between the parties hereto and no modification or amendment shall be binding upon any party unless made in writing and signed by each of the parties hereto.

the Lease.

- 18. Upon the termination or other end of this Lease Agreement, Optionee shall have the right to remove any and all of its property (real or personal) from the Property regardless of whether or not such property may be considered a fixture thereto.
- 19. Upon abandonment of the property, Optionee shall have thirty (30) days to dismantle and remove the cellular antenna tower and any/all equipment located on Optionor's property.

[Remainder of Page Intentionally Left Blank]

Site Name: Norwood

# **EXECUTION OF AGREEMENT(S)**

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

- Dyer ("Optionor(s)"

By: Violet J. Dyer Property Owner

Date: 10 - 17 - 05

t

("Optionee")

By: Ron Smith Authorized Representative Bluegrass Wireless LLC

STATE OF COUNTY OF (Ju The foregoing instrument was acknowledged before me this // day of ,2005, to be his/her free act and deed. wr by telacka ( NOTARY PUBLIC STATE AT LARGE STATE OF Kentucky COUNTY OF Hardin The foregoing instrument was acknowledged before me this le day of October 2005, by Ron Smith, to be his free act and deed. NOTARY PUBLIC STATE OF LARGE My commission expires: <u>1-21-09</u> This instrument prepared by: ent

John E. Selent

**DINSMORE & SHOHL LLP** 1400 PNC Plaza 500 West Jefferson Street

Louisville, KY 40202

(502) 540-2300

[...]



N 110 REID MILL RD SOMERSET, KY 42503 DEED BOOK 444, PAGE 029

MORROW, EDWIN J. & THELMA O. 537 GRIDER ANDERSON RD 0 SCIENCE HILL KY 42553 DEED BOOK 448, PAGE 570

HINES. TERRY & BETTY 1205 ROYCE DR SOMERSET, KY 42503 P DEED BOOK 639, PAGE 237

SMITH, CHARLES R. & HANA P.O. BOX 356 SOMERSET, KY 42502 DEED BOOK 583, PAGE 137

0

MAP 59-2, LOT 72 JEFFERS, JIMMY C. & RUTH A. 194 ERRIN LN ® 194 EKRIN LN SOMERSET, KY 42501 DEED BOOK 634, PAGE 467

FOSTER DEBBIE 4220 N. HWY 1247 SOMERSET, KY 42503 DEED BOOK 570, PAGE 536

HUSTED, RICHARD C. & DONNA 627 STATHAM RD LIBERTY, KY 42539 DEED BOOK 614, PAGE 692

MAP 59-2, LOT 67 MERRICK, ARVIL DALE & ENZA 4124 N. HWY 1247 SOMERSET, KY 42503 DEED BOOK 457, PAGE 100

MAP 59–2, LOT 65 SHEPHERD, MARION E & CARY C. 54 REID MILL RD SOMERSET, KY 42503 DEED BOOK 554, PAGE 478

MAP 59-2 10T 59 BLACK, EDISON & JOYCE 985 THURMAN LN SOMERSET, KY 42503 DEED BOOK 507, PAGE 069

PIERCE MICHAEL K. & LANA K. 245 REID MILL RD SOMERSET, KY 42503 DEED BOOK 714, PAGE 496

GODBY, RAYMOND & PATRICIA 1034 REID MILL RD SOMERSET, KY 42503 DEED BOOK 366, PAGE 621

MAP 59–2, LOT 56 UPCHURCH, JACK R. & ROBERTA 167 REID MILL RD SOMERSET, KY 42503 DEED BOOK 650, PAGE 003

MAP 59–2, LOT 55 HALE, JOHN J. & LINDA CAROL 127 REID MILL RD SOMERSET, KY 42503 DEED BOOK 517, PAGE 033 NO ZONING

MAP 59-2, LOT 54 MARTIN, RALPH E. & EDYTHE J. 61 REID MILL RD SOMERSET, KY 42503 DEED BOOK 601, PAGE 021 NO ZONING

MAP 59, LOT 10 TRIMBLE, JAMES DAVID 524 GRIDER ANDERSON RD. SCIENCE HILL, KY 42553 DEED BOOK 563, PAGE 561 NO ZONING

MAP 59-2, LOT 68 SPEARS, ARVIS & MILDRED 4160 N. HWY 1247 SOMERSET, KY 42503 DEED BOOK 604, PAGE 214 NO ZONING

MAP 59–2, LOT 69 SPEARS, LARRY DOUGLAS 1831 HACKER RD SOMERESET, KY 42503 DEED BOOK 751, PAGE 161 NO ZONING

BLUEGRASS CELLULAR 2902 RING ROAD ELIZABETHTOWN, KY 42702		
F.S. Land Company T. Alan Neal Company Land Surveyors and Consulting Engineers Pone: 1546 2313/2315 citteneen Dive Louende: Kr 4027 Phone: (502) 535–5565 (502) 556–5111 Fox: (502) 536–5563		
SITE NUMBER: SITE NAME: NORWOOD SITE ADDRESS:		
74 REID MILL ROAD SOMERSET, KY 42503 PROPOSED LEASE AREA: AREA = 10,000 sq. ft. PROPERTY OWNER:		
VIOLET J DYER 110 REID MILL RD SOMERSET, KY 42503 MAP NUMBER: 59-2 PARCEL NUMBER: 64		
54 SOURCE OF TITLE: DEED BOOK 444, PAGE 029		
DWG BY: CHKD BY: DATE: REL FSII 10.25.05 FSTAN PROJECT NO.:		
05-3598 SHEET_1_ OF_2_		
REVISIONS: OWNERS LIST - 11.04.05		



Land Surveyors and Consulting Engineers Formerly F.S. Land & T. Alan Neal Companies

## Site Name: NORWOOD

#### **500' RADIUS & ADJOINING LANDOWNER LIST**

Map 59.2, Lot 64 VIOLET J. DYER, 110 REID MILL RD. SOMERSET, KY. 42503 Deed Book 444, Page 029 No Zoning

Map 59-2, Lot 63 EDWIN J. & THELMA O. MORROW 537 GRIDER ANDERSON RD. SCIENCE HILL, KY. 42553 Deed Book 448, Page 570 No Zoning

> Map 59-2, Lot 77 TERRY & BETTY HINES 1205 ROYCE DR. SOMERSET, KY. 42503 Deed Book 639, Page 237 No Zoning

Map 59-2, Lot 73 CHARLES R. & HANA SMITH P.O. BOX 356 SOMERSET, KY. 42503 Deed Book 583, Page 137 No Zoning

Map 59-2, Lot 72 JIMMY C. & RUTH A. JEFFERS 194 ERRIN LN SOMERSET, KY. 42501 Deed Book 634, Page 467 No Zoning

> Map 59-2, Lot 71 DEBBIE FOSTER 4220 N. HWY 1247 SOMERSET, KY. 42503 Deed Book 570, Page 536 No Zoning



Land Surveyors and Consulting Engineers

Map 59-2, Lot 70 RICHARD C. & DONNA HUSTED 627 STATHAM RD. LIBERTY, KY. 42539 Deed Book 614, Page 692 No Zoning

Map 59-2, Lot 67 ARVIL DALE & ENZA MERRICK 4124 N. HWY 1247 SOMERSET, KY. 42503 Deed Book 457, Page 100 No Zoning

Map 59-2, Lot 65 MARION E. & CARY C. SHEPHERD 54 REID MILL RD. SOMERSET, KY. 42503 Deed Book 554, Page 478 No Zoning

> Map 59-2, Lot 59 EDISON & JOYCE BLACK 985 THURMAN LN. SOMERSET, KY. 42503 Deed Book 507, Page 069 No Zoning

Map 59-2, Lot 58 MICHAEL K. & LANA K. PIERCE 245 REID MILL RD. SOMERSET, KY. 42503 Deed Book 714, Page 496 No Zoning

Map 59-2, Lot 57 RAYMOND & PATRICIA GODBY 1034 REID MILL RD. SOMERSET, KY. 42503 Deed Book 366, Page 621 No Zoning

Map 59-2, Lot 56 JACK R. & ROBERTA UPCHURCH 167 REID MILL RD. SOMERSET, KY. 42503 Deed Book 650, Page 003 No Zoning

2315 Crittenden Drive PO Box 17546 Louisville, KY 40217 Phone: (502) 636-5111 (502) 635-5866 Fax: (502) 636-5263



## Land Surveyors and Consulting Engineers

Formerly F.S. Land & T. Alan Neal Companies

Map 59-2, Lot 55 JOHN J. & LINDA CAROL HALE 127 REID MILL RD. SOMERSET, KY. 42503 Deed Book 517, Page 033 No Zoning

Map 59-2, Lot 54 RALPH E. & EDYTHE J. MARTIN 61 REID MILL RD. SOMERSET, KY. 42503 Deed Book 601, Page 021 No Zoning

Map 59, Lot 10 JAMES DAVID TRIMBLE 524 GRINDER ANDERSON RD. SCIENCE HILL, KY. 42553 Deed Book 563, Page 561 No Zoning

Map 59-2, Lot 68 ARVIS & MILDRED SPEARS 4160 N. HWY 1247 SOMERSET, KY. 42503 Deed Book 604, Page 214 No Zoning

Map 59-2, Lot 69 LARRY DOUGLAS SPEARS 1831 HACKER RD. SOMERSET, KY. 42503 Deed Book 751, Page 161 No Zoning
#### <u>COMMONWEALTH OF KENTUCKY</u> <u>BEFORE THE PUBLIC SERVICE COMMISSION</u>

#### In the Matter of:

# APPLICATION OF BLUEGRASS WIRELESS LLCFOR ISSUANCE OF A CERTIFICATE OF PUBLICCASE NO. 2005-00438CONVENIENCE AND NECESSITY TO CONSTRUCTCASE NO. 2005-00438A CELL SITE (SOMERSET SOUTH) IN RURAL SERVICEAREA #6 (NORWOOD) OF THE COMMONWEALTH OFKENTUCKYKENTUCKY

#### AFFIDAVIT OF JOHN E. SELENT

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

My name is John E. Selent and I am a member of the Kentucky Bar Association.
 I am legal counsel to Bluegrass Wireless LLC and am submitting this affidavit in conjunction with the above referenced matter.

2. Pursuant to 807 KAR 5:063  $\S1(1)(1)$ , the attached list containing the names of the

residents/tenants and property owners within 500 feet of the proposed tower have been: (i) notified by written notice of the proposed construction, sufficient postage prepaid, by United States certified mail, return receipt requested; (ii) given the Commission docket number under which the application will be processed; and (iii) informed of the right to request intervention.

3. A copy of the certified mail return receipts for each of the above property owners that show proof of service is attached hereto.

4. The address for Charles R. and Hana Smith is a P.O. Box and therefore cannot be served by U.S. Certified Mail, pursuant to 807 KAR 5:063 § 1(1) and (m).

5. For the reason set forth in paragraph 4, the written notice of the proposed construction for Charles R. and Hana Smith was sent via U.S. Express Mail. The proof of service is attached hereto.

6. The written notice of the proposed construction that was sent via U.S. Certified

Mail to Michael K. and Lana K. Pierce was returned marked "Return to Sender - Unclaimed -Unable to forward" and therefore was never served upon nor delivered to the intended recipients.

7. For the reason set forth in paragraph 6, the written notice of the proposed construction for Michael K. and Lana K. Pierce was sent via Federal Express for overnight delivery. The proof of service is attached hereto.

Further Affiant saith not.

John E. Seler )SS

COMMONWEALTH OF KENTUCKY COUNTY OF JEFFERSON

SUBSCRIBED AND SWORN to before me this \_\_\_\_ day of December, 2005.

My commission expires:

Notary Public



#### TO: Michael K. and Lana K. Pierce 245 Reid Mill Road Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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

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



Home

#### Track/History Address Book Preferences **Fast Ship** Reports **My Profile**

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**Q**uick h

Ship to:	Michael K. and Lana K.	Package Type:	FedEx Envelope
	Pierce	Pickup/Drop Off:	give to scheduled courier at my location
	245 Reid Mill Road Somerset, KY  42503 US	Weight:	1 LBS
		Dimensions:	0 x 0 x 0
		Declared Value:	0 USD
	502-540-2300	Shipper Account Number:	111404232
From: KEF DIN 140 500 LOU	KERRY W. INGLE	Bill transportation to:	111404232
	DINSMORE & SHOHL LLP	Courtesy Rate Quote	*13.6
	1400 PNC Plaza	Discounted variable %	0.00
	500 West Jefferson Street	Special Services:	Residential Delivery
	LOUISVILLE, KY 40202	Purpose:	
	US 5025402300	Shipment Type:	Express
Tracking not	790727527600		
Tracking no: Your reference:	33597.1		
	Nov 29 2005		
Ship date:	Priority Overnight		

#### Cillia

#### **Please Note**

.\*The courtesy rate shown here may be different than the actual charges for your shipment. Differences may occur based on actual weight, dimensions, and other factors. Consult the applicable FedEx Service Guide or the FedEx Rate Sheets for details on how shipping charges are calculated.

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FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$500, e.g., jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits; Consult the applicable FedEx Service Guide for details.

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### Track Shipments Detailed Results

FedEx | Track

(?) Quick Help

Tracking num Signed for by Ship date Delivery date		790727527600 Signature release on f Nov 29, 2005 Nov 30, 2005 11:40 Al		Reference Destination Delivered to Service type Weight	33597.1 Somerset, KY Residence Priority Envelope 0.5 lbs.
Status		Delivered			
Date/Time		Activity	Lo	ocation	Details
Nov 30, 2005	11:40 AM	Delivered	So	omerset, KY	Left at front door. Package delivered to recipient address - release authorized
	9:29 AM	On FedEx vehicle for delivery	LC	ondon, ky	
	8:56 AM	-	LC	ONDON, KY	
	5:25 AM	At dest sort facility	l.C	DUISVILLE, TN	
	4:40 AM	Departed FedEx location	IN IN	DIANAPOLIS,	
Nov 29, 2005	10:08 PM	Left origin	LC	DUISVILLE, KY	
	8:17 PM	Picked up	LC	DUISVILLE, KY	
	3:34 PM	Package data transmitted to FedEx			

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Your Name:	Y	our Email Address:	
Email address	Language	Exception updates	Delivery updates
	English		-
	English		Г
	English		Г
	English		<u> </u>
,			

By selecting this check box and the Submit button, I agree to these <u>Terms and</u> <u>Conditions</u>

Submit

#### TO: Raymond & Patricia Godby 1034 Reid Mill Road Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> <li>Article Addressed to:</li> <li>Raymond Patvicia Godby to 34 Reid Mill Road</li> </ul>	A. Signature X. Kaymond Gollar  Agent Addressee B. Received by (Printed Name) C. Date of Delivery D. Is delivery address different from item 1? Yes If YES, enter delivery address below: No 215 Keid Mill Kd
Somerset, KY 42503	3. Service Type         If Certified Mail       Express Mail         Image: Registered       Return Receipt for Merchandise         Image: Image: Image: Return Receipt for Merchandise         Image: Image: Return Receipt for Merchandise         Image: Return Receipt for Merchandise<
2. Article Number 7004 07. (Transfer from service label)	50 0001 2351 0472
PS Form 3811, February 2004 Domestic Retr	urn Receipt 102595-02-M-1540

#### TO: Jimmy C. and Ruth A. Jeffers 194 Errin Lane Somerset, Kentucky 42501

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature
1. Article Addressed to:	If YES, enter delivery address below:
Jimmy C. & Ruth A. Jeffers 194 Errin Latre Dr.	194 Errin Drive Somerset 1 Ky. 42503
Somerset, KY 42501 42503	3. Service Type         Description         Mail         Express Mail         Registered         Insured Mail         C.O.D.
	4. Restricted Delivery? (Extra Fee)
2. Article Number (Transfer from service label) 7004 07	50 0001 2351 0106
PS Form 3811, February 2004 Domestic Retu	urn Receipt 102595-02-M-1540

#### TO: James David Trimble 524 Grinder Anderson Road Science Hill, Kentucky 42553

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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524 Grinder Anderson Rol.			
Science Hill, KY 42503	3. Service Type         Certified Mail       Express Mail         Registered       Return Receipt for Merchandise         Insured Mail       C.O.D.		
72309	4. Restricted Delivery? (Extra Fee)		
2. Article Number (Transfer from service label) 700407	20 0001 2351 0151		
PS Form 3811, February 2004 Domestic Ret	urn Receipt 102595-02-M-1540		

### TO: Richard C. and Donna Husted 627 Statham Road Liberty, Kentucky 42539

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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

Please refer to case num	er 2005-00438	in your	correspondence.
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Liberty, Cl 1000	3. Service Type         D Certified Mall       Express Mail         Registered       Return Receipt for Merchandise         Insured Mall       C.O.D.	
	4. Restricted Delivery? (Extra Fee)	
2. Article Number (Transfer from service label) 700407	50 0001 2351 0014	
PS Form 3811, February 2004 Domestic Ret	urn Receipt 102595-02-M-1540	

#### TO: Arvil Dale and Enza Merrick 4124 North Highway 1247 Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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

3	
SENDER: COMPLET'S THIS SECTION	SOMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	A. Signature X Contract Marriel Agent B. Received by (Printed Name) C. Date of Delivery
1. Article Addressed to:	D. Is delivery address different from item 1? /□ Yes If YES, enter delivery address below: □ No
Avuil Dale a Enza Merrick	
(D))	
4124 N. Highway 1247 Somerset, KY 42503	3. Service Type         Description         Description <t< td=""></t<>
	4. Restricted Delivery? (Extra Fee)
2. Article Number (Transfer from service label)	750 0001 2351 0021
PS Form 3811, February 2004 Domestic Retu	urn Receipt 102595-02-M-1540

#### TO: Marion E. and Cary C. Shepherd 54 Reid Mill Road Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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

SENDER: COMPLETE THIS SECTIO	N	COMPLETE THIS SEC	CTION ON DELIVER	3¥
<ul> <li>Complete items 1, 2, and 3. Also conitem 4 if Restricted Delivery is desires</li> <li>Print your name and address on the so that we can return the card to yo</li> <li>Attach this card to the back of the more on the front if space permits.</li> <li>Article Addressed to:</li> <li>Marion E. and Caryon 54 Reid Mill Rd.</li> </ul>	d. reverse  ailpiece, 	A. Signature	lifferent from Item 1?	Agent Addressee Date of Delivery (1) Yes No
Somerset, KY 42	503	<ul> <li>Service Type</li> <li>Contified Mail</li> <li>Registered</li> <li>Insured Mail</li> <li>Restricted Delivery</li> </ul>	Express Mall Return Receipt C.O.D. (Extra Fee)	for Merchandise
2. Article Number (Transfer from service label)	'004 075I	2351 2351 COOD	8600	er wooden open milje wer milje beste fan einer te
PS Form 3811, February 2004	Domestic Ret	urn Receipt		102595-02-M-1540

#### TO: Edison and Joyce Black 985 Thurman Lane Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailplece, or on the front if space permits.</li> <li>Article Addressed to:</li> <li>Edison d Joyce Black Mon 985 thurman Lang</li> <li>Somuset 1 KY 4250 3</li> </ul>	A. Signature       Agent         X       C. Date of Delivery         B. Received by (Printed Name)       C. Date of Delivery         E. B. Received by (Printed Name)       C. Date of Delivery         E. B. Received by (Printed Name)       C. Date of Delivery         E. B. Received by (Printed Name)       C. Date of Delivery         E. B. Received by (Printed Name)       C. Date of Delivery         E. B. Received by (Printed Name)       Inscrete the printed Name)         C. Date of Delivery address below:       INO         S. Service Type       Inscrete the printed Name         C. Certified Mail       Express Mail         Registered       Inscrete the Return Receipt for Merchandise         Insured Mail       Insured Science         4. Restricted Delivery? (Extra Fee)       Yes
2. Article Number 7004 (Transfer from service label)	0750 0001 2351 0052
PS Form 3811, February 2004 Domestic Retu	urn Receipt 102595-02-M-1540

#### TO: Violet J. Dyer 110 Reid Mill Road Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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• ****	☐ Insured Mail □ C.O.D.     4. Restricted Delivery? (Extra Fee) □ Yes
2. Article Number	750 0001 2351 0076
(Transfer from service label)	
PS Form 3811, February 2004 Domestic R	eturn Receipt 102595-02-W-1545

#### TO: Edwin J. and Thelma O. Morrow 537 Grider Anderson Road Science Hill, Kentucky 42553

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Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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Science Hill, KY 42553	3. Service_Type         Image: Certified Mail       Image: Express Mail         Image: Certified Mail       Image: Certified Mail         Image: Certified Mail       Image: Certified Certified Mail         Image: Certified Mail       Image: Certified Cert
2. Article Number 70040 (Transfer from service label)	220 2351 2083
PS Form 3811, February 2004 Domestic Ret	urn Receipt 102595-02-M-1540

#### TO: Terry and Betty Hines 1205 Royce Drive Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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Attach this card to the back of the mailpiece, or on the front if space permits.	D. Is delivery address different from item 1? A Yes	
1. Article Addressed to:	If YES, enter delivery address below:	
Terry a Betty Hines 1205 Royce Drive Somerset, KY 42503	93 Sycamore Springs Rd 42005	
Somerset, KY 42503	3. Service Type         Decertified Mall       Express Mall         Registered       Return Receipt for Merchandise         Insured Mall       C.O.D.	
	4. Restricted Delivery? (Extra Fee)	
2. Article Number (Transfer from service label) 700407	50 0001 2351 0090	
PS Form 3811, February 2004 Domestic Ret	turn Receipt 102595-02-M-1540	

TO: Debbie Foster 4220 North Highway 1247 Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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4220 North Hishway 1247 Somerset, KY 42503	3. Service Type         Certified Mall       Express Mall         Registered       Return Receipt for Merchandise         Insured Mall       C.O.D.
	4. Restricted Delivery? (Extra Fee)
2. Article Number 7004 [ (Transfer from service label)	1750 0001 2351 0113
PS Form 3811, February 2004 Domestic Re	turn Receipt 102595-02-M-1540

#### TO: Jack R. and Robert Upchurch 167 Reid Mill Road Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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1. Article Addressed to: JACK R. d Robert Upchurch 167 Reid Mill Rd.	If YES, enter delivery address below: D No
Somerset, KY 42503	3. Service Type         D-Ceftified Mall       Express Mall         Registered       Return Receipt for Merchandise         Insured Mail       C.O.D.         4. Restricted Delivery? (Extra Fee)       Yes
2. Article Number (Transfer from service label) 7004 075	0 0001 2351 0120
PS Form 3811, February 2004 Domestic Ret	urn Receipt 102595-02-M-1540

TO: Ralph E. & Edythe J. Martin 61 Reid Mill Road Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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Somerset, KY 42503	<ol> <li>Service Type</li> <li>Certified Mail</li> <li>Express Mall</li> <li>Registered</li> <li>Return Receipt</li> <li>Insured Mail</li> <li>C.O.D.</li> <li>Restricted Delivery? (Extra Fee)</li> </ol>	for Merchandise
2. Article Number 700407 (Transfer from service label)		
PS Form 3811, February 2004 Domestic Retu	urn Receipt	102595-02-M-1540

TO: Arvis and Mildred Spears 4160 North Highway 1247 Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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1. Article Addressed to: Arvis d mildred Spears 4160 North Hishway 1247	D. Is delivery address different from item 1? D Yes If YES, enter delivery address below: D No
Somerset, KY 42503	<ul> <li>3. Service Type</li> <li>Certified Mail</li> <li>Registered</li> <li>Insured Mail</li> <li>C.O.D.</li> <li>4. Restricted Delivery? (Extra Fee)</li> <li>Yes</li> </ul>
2. Article Number (Transfer from service label) 70040	750 0001 2351 0168
PS Form 3811, February 2004 Domestic Retu	urn Receipt 102595-02-M-1540

TO: Larry Douglas Spears 1831 Hacker Road Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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1. Article Addressed to:	D. Is delivery address different from item 1?  Yes If YES, enter delivery address below: No
Larry Douglas Spears 1831 Houcker Road	
Somerset, KY 42503	3. Service-Type         ☑ Certified Mail       □ Express Mail         □ Registered       □ Return Receipt for Merchandise         □ Insured Mail       □ C.O.D.
2019 	4. Restricted Delivery? (Extra Fee)
2. Article Number (Transfer from service label) 7004	0750 0001 2351 0175 .
PS Forn 3811, February 2004 Domestic Retu	urn Receipt 102595-02-M-1540

Please refer to case number 2005-00438 in your correspondence.

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[....] [.....]

TO: Charles R. and Hana Smith P.O. Box 356 Somerset, Kentucky 42503

Bluegrass Wireless LLC, is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity for construction and operation as a new cell facility to provide cellular radio service. The facility would include a 240 foot tower to be located at 110 Reid Mill Road, Somerset, Kentucky 42503. A map showing the location is attached. This notice is being sent to you because you either own property and/or reside on property that is located within a 500 ft. radius of the proposed tower <u>or</u> you own property contiguous to the property where the proposed tower will be located.

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





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#### **Search Results**

Label/Receipt Number: EQ31 0795 555U S Detailed Results:

- \* Delivered, November 09, 2005, 1:39 pm, SOMERSET, KY 42502
- \* Notice Left, November 09, 2005, 4:39 am, SOMERSET, KY 42502
- Arrival at Unit, November 09, 2005, 4:07 am, SOMERSET, KY 42501
- Enroute, November 08, 2005, 8:00 pm, LOUISVILLE, KY 40231
- \* Acceptance, November 08, 2005, 4:37 pm, LOUISVILLE, KY 40270

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

November 9, 2005

Via Certified Mail Honorable Darrell BeShears Pulaski County Judge Executive Courthouse 100 North Main Street Somerset, Kentucky 42501

> RE: Public Notice - Public Service Commission of Kentucky Case No. 2005-00438

Cincinnati Columbus

Bluegrass Wireless LLC is applying to the Public Service Commission of Kentucky (the Commission") for a Certificate of Public Convenience and Necessity to propose construction and operation for a new facility to provide cellular radio telecommunications service in rural service area (RSA) #6 in Pulaski County. The facility will include a 240 ft. tower and an equipment shelter to be located at 74 Reid Mill Road, Somerset, Kentucky, 42503. A map showing the location of the proposed new facility is enclosed.

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

Your comments and request for intervention should be addressed to: Executive Director's Office, Public Service Commission, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2005-00438 in your correspondence.

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Very truly yours,

DINSMORE & SHOHL LLP Cerry W Ingle Paralegal

enclosure

KWI

Lexington Louisville Pittsburgh

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul> <li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li>Print your name and address on the reverse so that we can return the card to you.</li> <li>Attach this card to the back of the mailpiece, or on the front if space permits.</li> <li>Article Addressed to: H6M. Darrell Be Shears pulask: Co. Judge Executive ComMunuse</li> </ul>	A. Signature X //SC // Child Name) B. Received by (Printed Name) C. Date of Delivery C. Date of Delivery (1-14) D. Is delivery address different from item 1? If YES, enter delivery address below: No
100 N. Main St. Somerset, KY 42501	3. Service Type         Image: Certified Mail       Image: Express Mail         Image: Certified Mail       Image: Express Mail         Image: Certified Mail       Image: Certified Mail         Image: Cerified
2. Article Number 700407 (Transfer from service label)	50 0001 2351 0434
PS Form 3811, February 2004 Domestic Ret	urn Receipt 102595-02-M-1540

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### **AFFIDAVIT OF PUBLICATION**

I, <u>Jessica Mullins</u>, of the Commonwealth Journal, a legal newspaper holding a second-class mailing permit, published daily except Mondays in Somerset, county of Pulaski, Commonwealth of Kentucky, do swear and subscribe that the attached proof of publication of a

[X] legal notice, as required and prescribed by KRS

TANKATO OF FUNTTORCTON TOLELON NON THE FUNCT

] paid advertisement

was published in said newspaper in the issue of <u>November 13</u> and <u>16</u> for which the sum of \$<u>120.00</u> is due and payable.

Signed: Georia Mullins) Title: Classifie'd Ad Manager

Subscribed and sworn to before me, a notary public for the County of Pulaski, Commonwealth of Kentucky, this  $\_//_{6}$  day of  $\_//_{6}$  day of  $\_//_{6}$ .

Brenda Hackny My commission expires <u>August 19, 2006</u>

(Seal)



#### C10 Commonwealth Journal, Sunday, November 13, 2005 Somerset, Kentucky



to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service area  $\# \epsilon$ of the Commonwealth of Kentucky (Bronston Cell Site). The facility is a 240-foot tower and an equipment shelter to be located at 680 John Gover Lane, Bronston, Kentucky 42518. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2005-00449 in your correspondence.

#### NOTICE

TO THE UNKNOWN SPOUSE, if any, AND UNKNOWN HEIRS, if any OF MITCHELL LYONS, FRONA LYONS AND/OR ETHEL LYONS ENTITLED TO AND/OR CLAIMING AN INTEREST IN AND/OR TITLE TO certain Property located in Pulaski County, Kentucky, which was owned by the late MITCHELL LYONS.

A civil action has been filed in the Pulaski County Circuit Court involving the property stated above in which the aforementioned OWNERS, HEIRS CDOTICES may have an interest

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ter to be located at 74 Reid Mill Road, Somerset, Kentucky 42503. Your comments and requests for intervention should be addressed to: Executive Office, Public Service Director's Commission, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2005-00438 in your correspondence.

#### IOROSCOPE

#### FOR MONDAY, NOV. 14

IF YOU WERE BORN TODAY The word casual is not in your vocabulary. You're careful, precise, thorough and caring. Your curiosity about everything makes you observant. In a given situation, you see what is needed and know how to provide it. Be flexible with changes coming your way this year. Something as significant as whatever took place in 1996-97 might happen.

SCORPIO (Oct. 23 to Nov. 21) It's hard to please partners and close friends today. People are a bit prickly. It's the Full Moon. Don't take things personally.

SAGITTARIUS (Nov. 22 to Dec. 21) Don't let the comments of others confirm your worst fears about yourself. This Full Moon (it peaks tomorrow) shakes your selfconfidence.

CAPRICORN (Dec. 22 to Jan. 19) Tension between you and others is likely, 1.....



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### Information on Towers Registered with the FCC in Pulaski County and 1/2 mile Area Outside of the County Boundary

FCC Tower Reg. No.	North Latitude	West Longitude	City, State	Tower Owner
1234158	37-00-16.3 N	84-35-30.8 N	Burnside, KY	East Kentucky Power Cooperative, Inc.
1234225	37-01-12.7 N	84-34-43.7 N	SOMERSET, KY	C&C TOWER RENTAL,LLC
1235212	37-06-12 N	84-35-46 N	Somerset, KY	Global Tower, LLC
1237226	37-11-19.3 N	84-37-36.3 N	Science Hill, KY	East Kentucky Power Cooperative, Inc.
1247464	37-06-03.7 N	84-46-43.5 N	Nancy, KY	Hemphill Corporation
1247918	37-07-24.6 N	84-33-06.1 N	Somerset, KY	Hemphill Corporation
1250130	37-04-36.3 N	84-48-38.8 N	Somerset, KY	Educational Media Foundation
1250175	37-01-54 N	84-37-23 N	Somerset, KY	Bluegrass Wireless LLC
1250182	37-15-04.9 N	84-38-58.4 N	Eubank, KY	Bluegrass Wireless LLC
1250183	37-13-03.8 N	84-27-29 N	Somerset, KY	Bluegrass Wireless LLC
1250184	37-05-46.4 N	84-50-33.9 N	Nancy, KY	Bluegrass Wireless LLC