

COMMONWEALTH OF KENTUCKY  
BEFORE THE PUBLIC SERVICE COMMISSION

**RECEIVED**

In the Matter of:

**APPLICATION OF KENTUCKY RSA #4 CELLULAR  
GENERAL PARTNERSHIP FOR ISSUANCE OF A  
CERTIFICATE OF PUBLIC CONVENIENCE AND  
NECESSITY TO CONSTRUCT A CELL SITE (GRESHAM)  
IN RURAL SERVICE AREA #4 (GREEN) OF THE COMMONWEALTH  
OF KENTUCKY**

CASE NO. 2007-00028  
PUBLIC SERVICE  
COMMISSION

FEB 15 2007

**APPLICATION FOR A CERTIFICATE  
OF PUBLIC CONVENIENCE AND NECESSITY (GRESHAM)**

Kentucky RSA #4 Cellular General Partnership ("Kentucky RSA #4"), 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 Gresham cell site in and for rural service area ("RSA") #4 of the Commonwealth of Kentucky, namely the counties of Anderson, Green, Hardin, Larue, Marion, Mercer, Nelson, Spencer, Taylor and Washington, Kentucky.

1. As required by 807 KAR 5:001 Sections 8(1) and (3), and 807 KAR 5:063, Kentucky RSA #4 states that it is a Kentucky general partnership whose full name and post office address are: Kentucky RSA #4 Cellular General Partnership, 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 KAR 5:063 §1(1)(d), applicant is submitting as Exhibit "B" a geotechnical investigation report, signed and sealed by a professional engineer registered in Kentucky, that includes boring logs, foundation design recommendations, and a finding as to the susceptibility of the area surrounding the proposed site to flood hazard.
4. Pursuant to 807 KAR 5:063 §1(1)(e), clear directions from the county seat to the proposed site, including highway numbers and street names, if applicable, with the telephone number of the person who prepared the directions are Exhibit "C".

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

6. Pursuant to 807 KAR §1(1)(g), experienced personnel will manage and operate the Gresham cell site. The President of Bluegrass Cellular Inc., Mr. Ron Smith, is ultimately responsible for all construction and operations of the cellular system of Kentucky RSA #4, of which system the Gresham cell site will be a part. Bluegrass Cellular Inc. provides management services to Kentucky RSA #4 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), Eastpointe Engineering Group, LLC is responsible for the design specifications of the proposed tower (identified in Exhibit "B").

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

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

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

12. Pursuant to 807 KAR 5:063 § 1 (1)(l), applicant's legal counsel hereby affirms that every person who owns property within 500 feet of the proposed tower has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of his 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 KAR 5:063 § 1(1)(m), a list of the property owners who received the notice together with copies of the certified letters sent to listed property owners, is Exhibit "F".

15. Pursuant to 807 KAR 5:063 § 1 (1)(n), applicant's legal counsel hereby affirms that the Green 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.

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

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

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 "***Kentucky RSA #4 Cellular General Partnership 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 "***Kentucky RSA #4 Cellular General Partnership 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"

19. Pursuant to 807 KAR 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.

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

21. Pursuant to 807 KAR 5:063 §1(1)(s), Kentucky RSA #4 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. Kentucky RSA #4 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 KAR 5:063 § 1(1)(t), a map of the area in which the tower is proposed to be located, that is drawn to scale and that clearly depicts the search area in which a site should, pursuant to radio frequency requirements, be located is Exhibit "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 Kentucky RSA #4 Cellular 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  
**DINSMORE & SHOHL LLP**  
1400 PNC Plaza  
500 West Jefferson Street  
Louisville, KY 40202  
(502) 540-2300  
*john.selent@dinslaw.com*

WHEREFORE, Kentucky RSA #4 Cellular General Cellular Partnership requests the Commission to enter an order:

1. Granting a certificate of public convenience and necessity to construct the Gresham 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  
(502) 540-2207  
*john.selent@dinslaw.com*

# 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  
LEILA REZANAVAZ  
OF COUNSEL  
JOHN J. MCAVOY\*  
J.K. HAGE III\*  
LEONARD S. KOLSKY\*  
HON. GERALD S. MCGOWAN\*  
TAMARA DAVIS-BROWN\*

\*NOT ADMITTED IN VA

January 5, 2007

**Via Federal Express**

Telephone

(703) 584-8668

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 (Gresham) near Greensburg, Kentucky. The Structure, including top-mounted antennas 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: Doug Updegraff

Kentucky Transportation Cabinet, Kentucky Airport Zoning Commission, 125 Holmes Street, Frankfort KY 40622

Kentucky Aeronautical Study Number

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

1. APPLICANT - Name, Address, Telephone, Fax, etc.

Scott McCloud
Bluegrass Cellular
2902 Ring Road
Elizabethtown, KY 42702
Tel: 270-769-0339
Fax: 270-737-0580

2. Representative of Applicant - Name, Address, Telephone, Fax

Leila Rezanavaz
Lukas, Nace, Gutierrez & Sachs, Chartered
1650 Tysons Blvd., Suite 1500
McLean, VA 22102
T: 703-584-8668

3. Application for: [X] New Construction [ ] Alteration [ ] Existing

4. Duration: [X] Permanent [ ] Temporary (Months \_\_\_ Days \_\_\_)

5. Work Schedule: Start 2/15/07 End 2/20/07

6. Type: [X] Antenna Tower [ ] Crane [ ] Building [ ] Power Line
[ ] Landfill [ ] Water Tank [ ] Other

7. Marking/Painting and/or Lighting Preferred:

- [ ] Red Lights and Paint [X] Dual - Red & Medium Intensity White
[ ] White - Medium Intensity [ ] Dual - Red & High Intensity White
[ ] White - High Intensity [ ] Other

8. FAA Aeronautical Study Number 2007-ASO-41-OE

9. Latitude: 37 ° 11 ' 24 . 86 "

10. Longitude: 85 ° 26 ' 58 . 58 "

11. Datum: [X] NAD 83 [ ] NAD 27 [ ] Other

12. Nearest Kentucky City Greensburg County: Green

13. Nearest Kentucky public use or Military airport:
Columbia-Adair County Airport

14. Distance from #13 to Structure: 9.2 Miles

15. Direction from #13 to Structure: NW

16. Site Elevation (AMSL): 849 Feet

17. Total Structure Height (AGL): 255 Feet

18. Overall Height (#16 + #17) (AMSL): 1104 Feet

19. Previous FAA and/or Kentucky Aeronautical Study Number(s):
N/A

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 survey)

Site is located at:

501 Bramlett Road
Greensburg, KY 42743

21. Description of Proposal:

Structure: Tower including top-mounted antennas for overall height of 255'.
Max. ERP: 200 Watts
Frequencies: Cellular Band B

22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 7460-1)

been filed with the Federal Aviation Administration?

- [ ] No
[X] Yes, When 1/4/2007

CERTIFICATION: I hereby certify that all the above statements made by me are true, complete and correct to the best of my knowledge and belief.

Leila Rezanavaz / Consulting Engineer Leila Rezanavaz 1/5/2007

Printed Name Signature Date

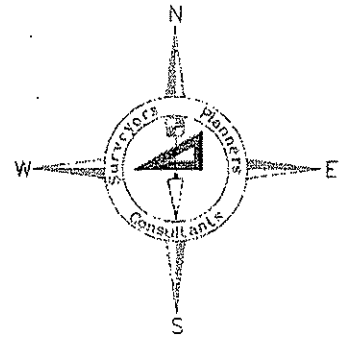
PENALTIES: Persons failing to comply with Kentucky Revised Statutes (KRS 183.861 through 183.990) and Kentucky Administrative Regulations (602 KAR 050: Series) are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Non-compliance with Federal Aviation Administration Regulations may result in further penalties.

Commission Action: [ ] Chairman, KAZC [ ] Administrator, KAZC

[ ] Approved
[ ] Disapproved Date

# Landmark Surveying Co., Inc.

Darren L. Helms, R.L.S., PRESIDENT  
Dennis N. Helms, R.L.S., VICE PRESIDENT



15 N.E. 3rd Street  
Washington, Indiana 47501  
Phone: 812-257-0950  
Fax: 812-257-0953  
E-mail: landmark@dmrtc.net

## 1A Certification

December 15, 2006

Designation: Gresham  
Site ID No.: Not Available  
Tower Type: Proposed Self-Support Tower  
Location: 501 Bramlett Road, Greensburg, KY 42743

I certify that the latitude, longitude, ground elevation and height of the proposed self-support tower are as follows:

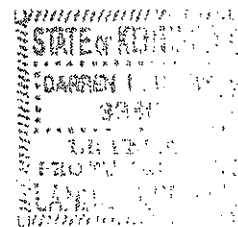
Latitude:	37 degrees 11 minutes 24.86 seconds North	(NAD 1983)
Longitude:	85 degrees 26 minutes 58.58 seconds West	(NAD 1983)
Ground Elevation:	848.8 feet or 258.7 meters	(NAVD 1988)
Proposed Structure Height:	240 feet or 73.2 meters	(above ground level)
Proposed Overall Structure Height:	not available	(above ground level)

The accuracy of the latitude and longitude of the proposed self-support tower is  $\pm 15$  feet or  $\pm 5$  meters. The ground elevation and structure height are accurate to within  $\pm 3$  feet or  $\pm 1$  meter.

The information shown above is based upon field observations made on December 11, 2006 using the National Geodetic Survey monument "Z 225" and the Kentucky State Plane Coordinate System, South Zone, NAD 1983 (1993). The field observations were completed using Sokkia GPS receivers and a Topcon GPT-8005A robotic total station. Geodetic computations were completed using Sokkia's Locus software and Autodesk Land Desktop 2007 software.

Landmark Surveying Co., Inc.

Darren L. Helms, Kentucky Professional Land Surveyor No. 3386





**Notice of Proposed Construction or Alteration (7460-1)**

**Project Name:** BLUEG-000056892-07

**Sponsor:** Bluegrass Cellular, Inc.

**Details for Case : Gresham**

Show Project Summary

**Case Status**

**ASN:** 2007-ASO-41-OE

**Date Accepted:** 01/04/2007

**Status:** Accepted

**Date Determined:**

**Letters:** None

**Construction / Alteration Information**

**Notice Of:** Construction

**Duration:** Permanent

*if Temporary :* Months: Days:

**Work Schedule - Start:** 02/15/2007

**Work Schedule - End:** 02/20/2007

**State Filing:** Filed with State

**Structure Summary**

**Structure Name:** Gresham

**Structure Type:** Antenna Tower

*Other :*

**FCC Number:**

**Prior ASN:**

**Structure Details**

**Latitude:** 37° 11' 24.86" N

**Longitude:** 85° 26' 58.58" W

**Horizontal Datum:** NAD83

**Site Elevation (SE):** 849 (nearest foot)

**Structure Height (AGL):** 255 (nearest foot)

**Marking/Lighting:** Dual-red and medium intensity

*Other :*

**Nearest City:** Greensburg

**Nearest State:** Kentucky

**Traverseway:** No Traverseway

**Description of Location:** 501 Bramlett Road  
Greensburg, KY 42743

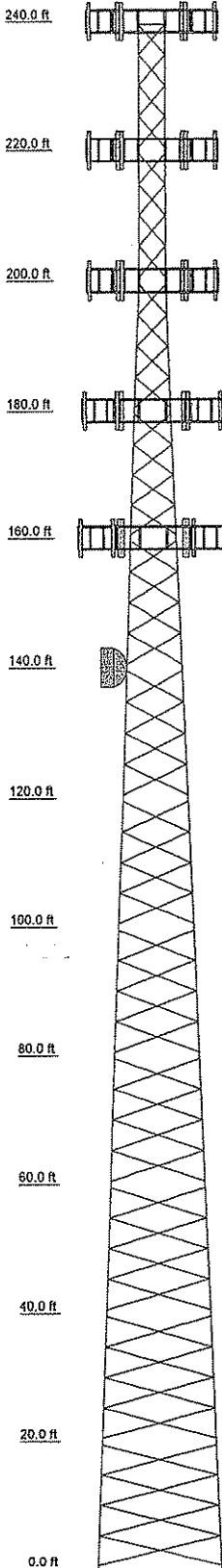
**Description of Proposal:** Tower including top-mounted antennas will have an overall height of 255'.

**Common Frequency Bands**

Low Freq	High Freq	Freq Unit	ERP	ERP Unit
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W

**Specific Frequencies**

Section	T12	T11	T9	T8	T7	T6	T5	T4	T3	T2	T1	
Legs	SR 4	SR 3 3/4	SR 3 1/2	SR 3 1/4	SR 3 1/4	SR 2 3/4	SR 2 3/4	SR 2 3/4	SR 2 1/2	SR 2 1/4	SR 1 3/4	
Leg Grade	L3 1/2x3 1/2x1/4	L3x3x3/16	L2 1/2x2 1/2x3/16	A572-50	L1 3/4x1 3/4x3/16							
Diagonals	L3x3x1/4	L3x3x3/16	L2 1/2x2 1/2x3/16	L2x2x3/16								
Diagonal Grade	A36											
Top Girts	N.A.											
Face Width (ft)	17.5	16	13	11.5	10	8.5	7	5.5				4
# Panels @ (ft)	5.2	3.7	3.0	2.5	2.0	1.5	1.2	0.9				0.9
Weight (K)	32.5											



### DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
(6) D100-0042-0041	240	(6) RWB 80014/120 (Future)	180
Lightning Rod 1"x10" (Initial)	240	(3) T frame sector Mount (Future Carrier 3)	180
Flash Beacon Lighting (Initial)	240	(6) RWB 80014/120 (Future)	160
(3) T frame sector Mount (Initial)	240	(3) T frame sector Mount (Future Carrier 4)	160
(6) RWB 80014/120 (Future)	220	HP6-122	140
(3) T frame sector Mount (Future Carrier 1)	220		
(6) RWB 80014/120 (Future)	200		
(3) T frame sector Mount (Future Carrier 2)	200		

### MATERIAL STRENGTH

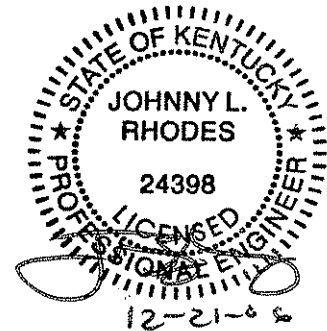
GRADE	Fy	Fu	GRADE	Fy	Fu
A572-50	50 ksi	65 ksi	A36	36 ksi	58 ksi

### TOWER DESIGN NOTES

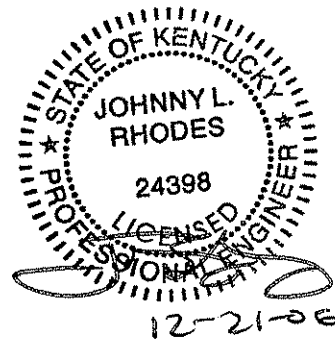
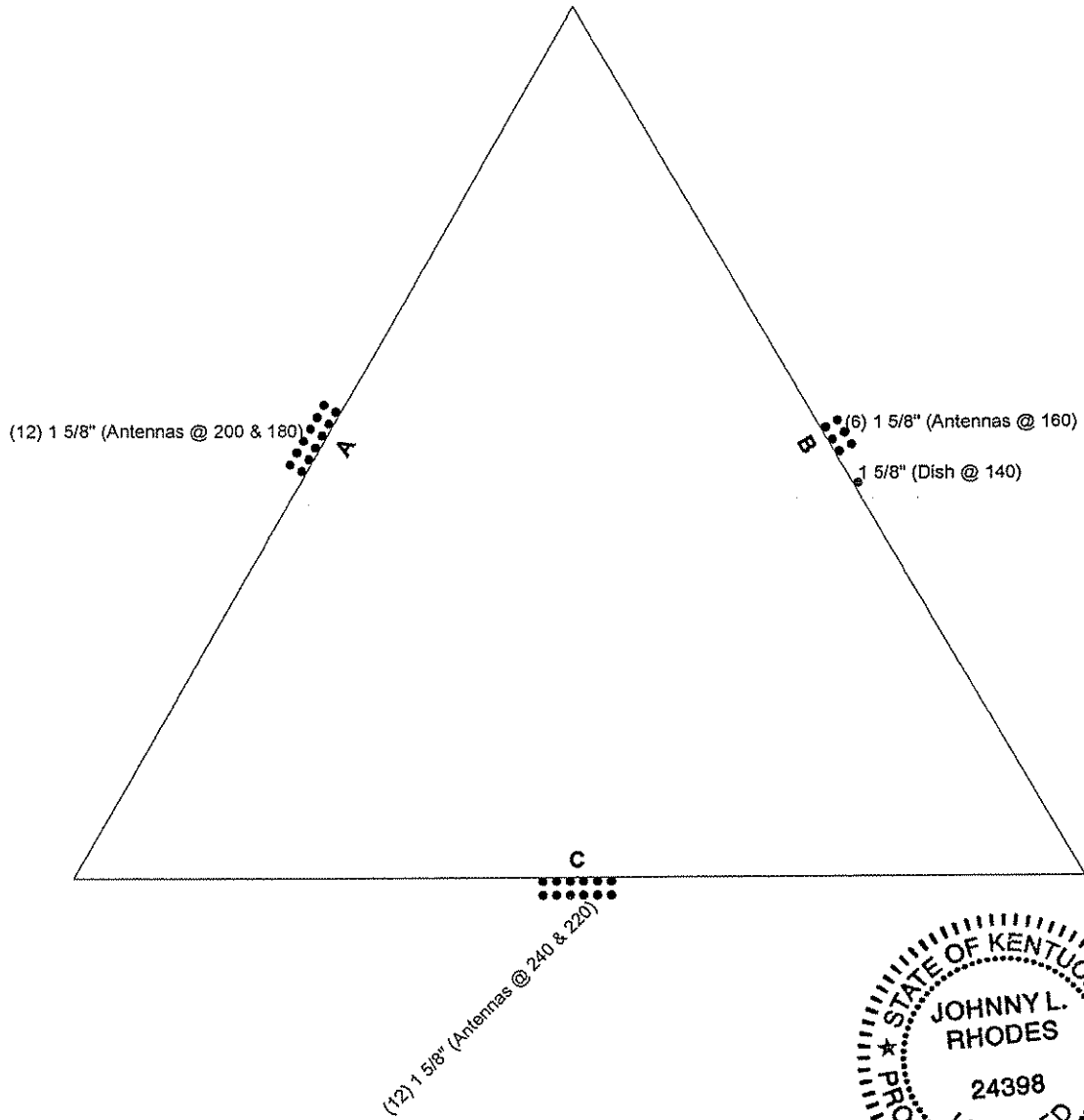
1. Tower is located in Green County, Kentucky.
2. Tower designed for Exposure B to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Deflections are based upon a 60 mph wind.
5. Tower designed as Structure Class I
6. Tower designed as Topo Category 3 w/ Crest Height of 100 ft
7. In no case shall more than (6) lines be exposed to wind. Feedlines may be stacked in up to (2) rows on the inside and outside face of the tower.
8. Final Design 12/21/06. JLR

MAX. CORNER REACTIONS AT BASE:  
 DOWN: 424 K  
 UPLIFT: -377 K  
 SHEAR: 31 K

AXIAL 53 K  
 MOMENT 6694 kip-ft  
 SHEAR 54 K  
 TORQUE 7 kip-ft  
 REACTIONS - 90 mph WIND



<b>Eastpointe Engineering Group, LLC</b> 4020 Tull Ave. Muskogee, OK 74403 Phone: 918.683.2169 FAX: 918.682.7618	Job: <b>Ell Job #2466-Gresham</b>
	Project: <b>240' SST/Green County, KY</b>
	Client: Bluegrass Cellular
	Code: TIA-222-G
Drawn by: Johnny L. Rhodes, P.E.	App'd:
Date: 12/21/06	Scale: NT
Path:	Dwg No. E



<b>Eastpointe Engineering Group, LLC</b> 4020 Tull Ave. Muskogee, OK 74403 Phone: 918.683.2169 FAX: 918.682.7618	Job: <b>EII Job #2466-Gresham</b>
	Project: <b>240' SST/Green County, KY</b>
	Client: <b>Bluegrass Cellular</b>   Drawn by: <b>Johnny L. Rhodes, P.E.</b>   App'd:
	Code: <b>TIA-222-G</b>   Date: <b>12/21/06</b>   Scale: <b>NT</b>
Path:	Dwg No. <b>E</b>

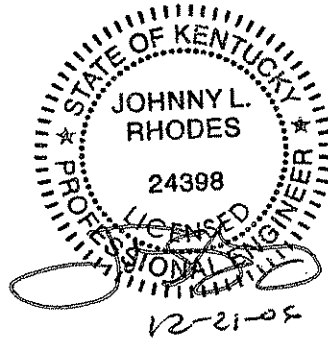
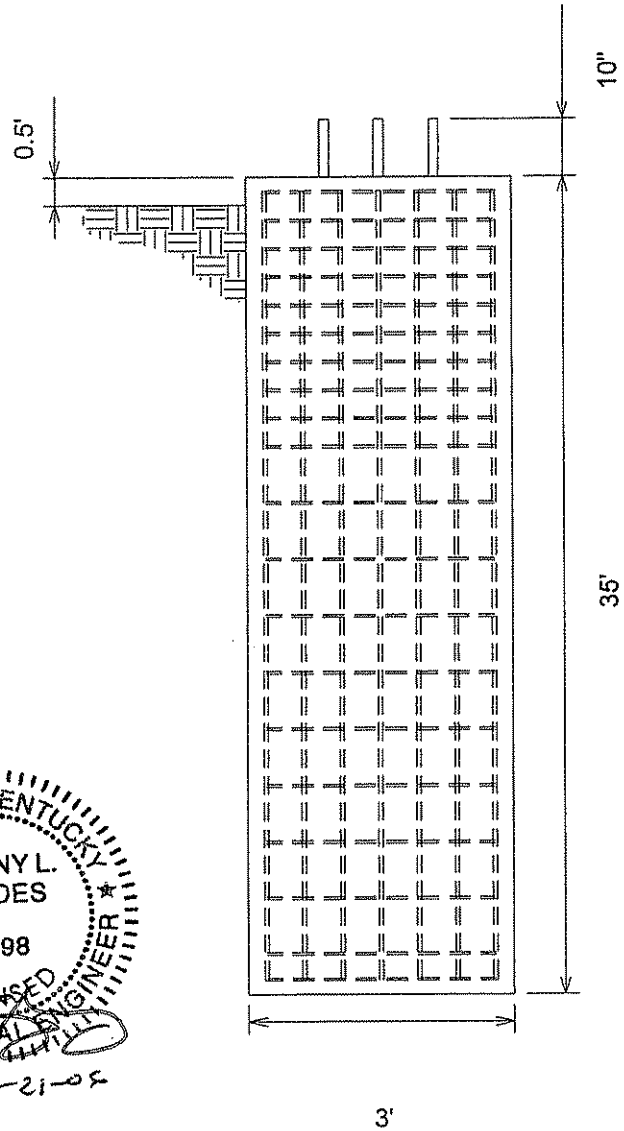
Z:\Drafting\Drawings\Jobs\2400-2400-2466\Final Tower\Drawings\2400.dwg

# CAISSON DESIGN

<b>Vertical Bars</b>	(12) #9 bars, 34.5' long
<b>Ties</b>	#5 bars @ 6" c/c for the first 6.5' 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 4000 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.
6. All exposed concrete corners to have 3/4" chamfer.
7. Bottom and side surfaces to rest on undisturbed soil.
8. Contractor shall be responsible to review and follow all recommendations of the geotechnical report.



### Supplemental Notes

Soil values obtained from Terracon soils report #57067548 dated 12/13/06.  
Use (6) 1 1/2" Grade 50 Anchor bolts with 60" embedment.

<b>EASTPOINTE ENGINEERING GROUP, LLC</b> 4020 Tull Ave. Muskogee, OK 74403--Phone 918.683.2169--Fax:918.682.7618	<b>Client: Bluegrass Cellular</b>	
	<b>Site: Gresham</b>	
	<b>Job: 2466</b>	<b>Drawn by: JLR</b>
	<b>Scale: NTS</b>	<b>Date: 12/21/06</b>

**GEOTECHNICAL ENGINEERING REPORT**  
**PROPOSED GRESHAM COMMUNICATION TOWER**  
**5958 COLUMBIA HWY/ KENTUCKY HWY 61**  
**GREENSBURG, GREEN COUNTY, KENTUCKY**

**TERRACON PROJECT NO.: 57067548**  
**December 13, 2006**

*Prepared For:*

**BLUEGRASS CELLULAR**  
**Elizabethtown, Kentucky**

*Prepared by:*

**Terracon**  
**Louisville, Kentucky**

**Terracon**

December 13, 2006

# Terracon

Consulting Engineers & Scientists

Bluegrass Cellular  
2902 Ring Road  
Elizabethtown, Kentucky 42702

4545 Bishop Lane, Suite 101  
Louisville, Kentucky 40218  
Phone 502.456.1256  
Fax 502.456.1278  
www.terracon.com

Attention: Doug Updegraff

**Re: Geotechnical Engineering Report  
Proposed Gresham Communication Tower  
5958 Columbia Hwy/ Kentucky Hwy 61  
Greensburg, Green County, Kentucky  
Terracon Project No. 57067548**

Dear Mr. Updegraff:

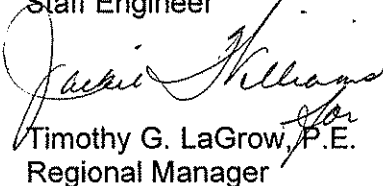
The results of our subsurface exploration are attached. The purpose of this exploration was to obtain information on subsurface conditions at the proposed project site and, based on this information, to provide recommendations regarding the design and construction of foundations for the proposed tower.

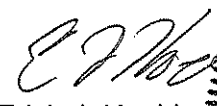
The design parameters and recommendations within this report apply to the existing planned tower height and adjustments up to 20% increase or decrease in tower height, as long as the type of tower does not change. If changes in the height of the tower dictate a change in tower type (i.e. – monopole to a self-support, self-support to a guyed tower), Terracon should be contacted to evaluate our recommendations with respect to these changes.

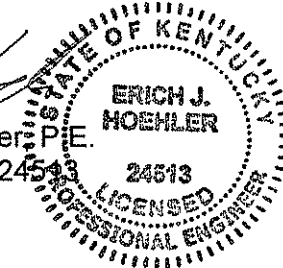
We appreciate the opportunity to be of service to you on this project. If you have any questions concerning this report, or if we may be of further service to you in any way, please feel free to contact us.

Sincerely,  
**Terracon**

  
Shaikh Z. Rahman, EIT.  
Staff Engineer

  
Timothy G. LaGrow, P.E.  
Regional Manager

  
Erich J. Hoehler, P.E.  
Kentucky No. 24543



n:\projects\2006\57067548\geo57067548.doc  
Attachments: Geotechnical Engineering Report  
Copies: (4)

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# GEOTECHNICAL ENGINEERING REPORT

## PROPOSED GRESHAM COMMUNICATION TOWER 5958 COLUMBIA HWY/ KENTUCKY HWY 61 GREENSBURG, GREEN COUNTY, KENTUCKY TERRACON PROJECT NO. 57067548

December 13, 2006

### 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 42 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. Based on the observed grades and proposed tower construction, minimal grading operations are anticipated.

### 3.0 EXPLORATION PROCEDUR ES

#### 3.1 Field Exploration

The subsurface exploration consisted of drilling and sampling one boring at the site to a depth of about 42 feet below existing grade. The boring was advanced at the center of the tower as staked by the project surveyor. Ground surface elevation at the boring location was obtained from the site plan provided by the client. The location and elevation of the boring should be considered accurate only to the degree implied by the means and methods used to define them.

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 SPT N-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 32 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 designations (RQD) were 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:

**Table 1 – Rock Quality Designation (RQD)**

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

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 tests on representative soil samples. 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 designations (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.

Beneath about 0.4 foot of topsoil, the boring encountered cohesive fill consisting of lean clay (CL) with organics to a depth of about 3½ feet below grade. Beneath the fill, native lean and sandy clay (CL) and elastic silt (MH) with varying amount of rock fragments were encountered extending to auger refusal at about 32 feet below grade. The fill exhibited a medium stiff consistency based on a standard penetration test (N) value of about 5 blows per foot (bpf). The native clays and silts exhibited a stiff to hard consistency based on N-values in the range of about 8 to 28 bpf. The presence of rock fragments in the soil matrix most likely has inflated the higher blow counts.

Below a depth of about 32 feet, rock coring techniques were used to advance the borehole. The bedrock at the site appears to be relatively continuous based on the core recovery of 100 percent. The quality of the rock is rated as good based on the RQD value of about 77

percent. Considering the height of the tower and the quality of the bedrock, coring operations were terminated at a depth of 42 feet below grade.

#### **4.2 Site Geology**

A review of the Geologic Map of Gresham Quadrangle, Kentucky published by Kentucky Geological Survey (1965), indicates that the site is underlain by St. Louis Limestone of the Upper Mississippian age. This formation primarily consists of limestone with claystone and siltstone. The limestone is light olive gray to medium gray, very fine grained, medium bedded and cherty. White to yellow blocky chert occurs in thick reddish brown residuum. Locally light olive gray and greenish gray claystone and siltstone are interbedded with limestone near base of the formation. Exposures to weathered rock are rare in this quadrangle. This formation is about 400 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 indicated a few closed depressions within a 1 mile radius of the property that may be karst related. However, the boring 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 RECOMMEN DATIONS

Based on the subsurface condition, the proposed tower can be either founded on drilled piers or on a mat foundation. The equipment building may be supported on shallow spread footings after evaluating the existing fill. Design recommendations for the tower drilled pier and mat foundation as well as shallow footings for the equipment building are presented in the following paragraphs.

### 5.1 Tower Foundation

**Drilled Pier Alternative:** Based on the results of the boring, the following tower foundation design parameters have been developed:

**Table 2 - Drilled Pier Foundation Design Parameters**

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 - 3½	Topsoil and Fill	Ignore	Ignore	Ignore	-	-	Ignore	Ignore
3½ - 32	Lean/Sandy Clay and Elastic Silt	425	2,500	1,500	0	1,500	120	0.007
32 - 42	Competent Limestone	5,000***	20,000	10,000***	0	100,000***	3,000	0.00001

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

\*\* A total unit weight of 120 and 150 pcf can be estimated for the clay/silt 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 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 ½ inch.

The upper 3½ feet of topsoil and fill should be ignored due to its uncertainty and 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. Competent rock was encountered in the boring below a depth of about 32 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 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.

**Mat Foundation Alternative:** Due to the presence of existing fill beneath the proposed tower location, it will be imperative that the proposed foundation excavations and subgrades be evaluated by a qualified geotechnical engineer or his representative prior to concrete placement. Existing fill beneath the mat foundation should be undercut to stiff native soils. After recommended fill undercutting, the subgrade should be suitable for support of the proposed mat on native stiff soils or compacted engineered fill extending to suitable native soils.

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.

**Table 3 - Mat Foundation Design Parameters**

Depth (feet)	Description	Allowable Contact Bearing Pressure (psf)	Allowable Passive Pressure (psf)	Coefficient of Friction, Tan $\delta$	Vertical Modulus of Subgrade Reaction (pci)
0 - 3½	Topsoil and Fill	Ignore	Ignore	-	
≥ 3½	Lean Clay or Crushed Stone Fill	2,500	Ignore	0.35	125

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.

## 5.2 Equipment Building Foundations

Due to the presence of existing fill beneath the proposed structure, it will be imperative that the proposed foundation excavations and subgrades be evaluated by a qualified geotechnical engineer or his representative prior to concrete placement. If at the time of such evaluation, unsuitable materials are encountered, the geotechnical engineer may require that the footing subgrade be modified by undercutting, or undercutting and backfilling, as discussed herein.

The proposed equipment shed may be supported on shallow footings bearing on stiff natural soils or compacted engineered fill extending suitable native soils. The equipment building foundations should be dimensioned using a net allowable soil bearing pressure of 2,000 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 2.0 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 existing fill or soft soils are encountered at the design foundation elevation, the excavations should be extended downward so that the footings rest on stiff natural 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 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 materials should consist of well graded crushed stone below the tower foundation and well graded crushed stone or low plasticity cohesive soil elsewhere. 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 lean clays can be reused as engineered fill. The on-site existing fill and elastic silts are not recommended for re-use as fill due to their high plasticity and silt content. It is recommended that during construction the proposed fill soils 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.

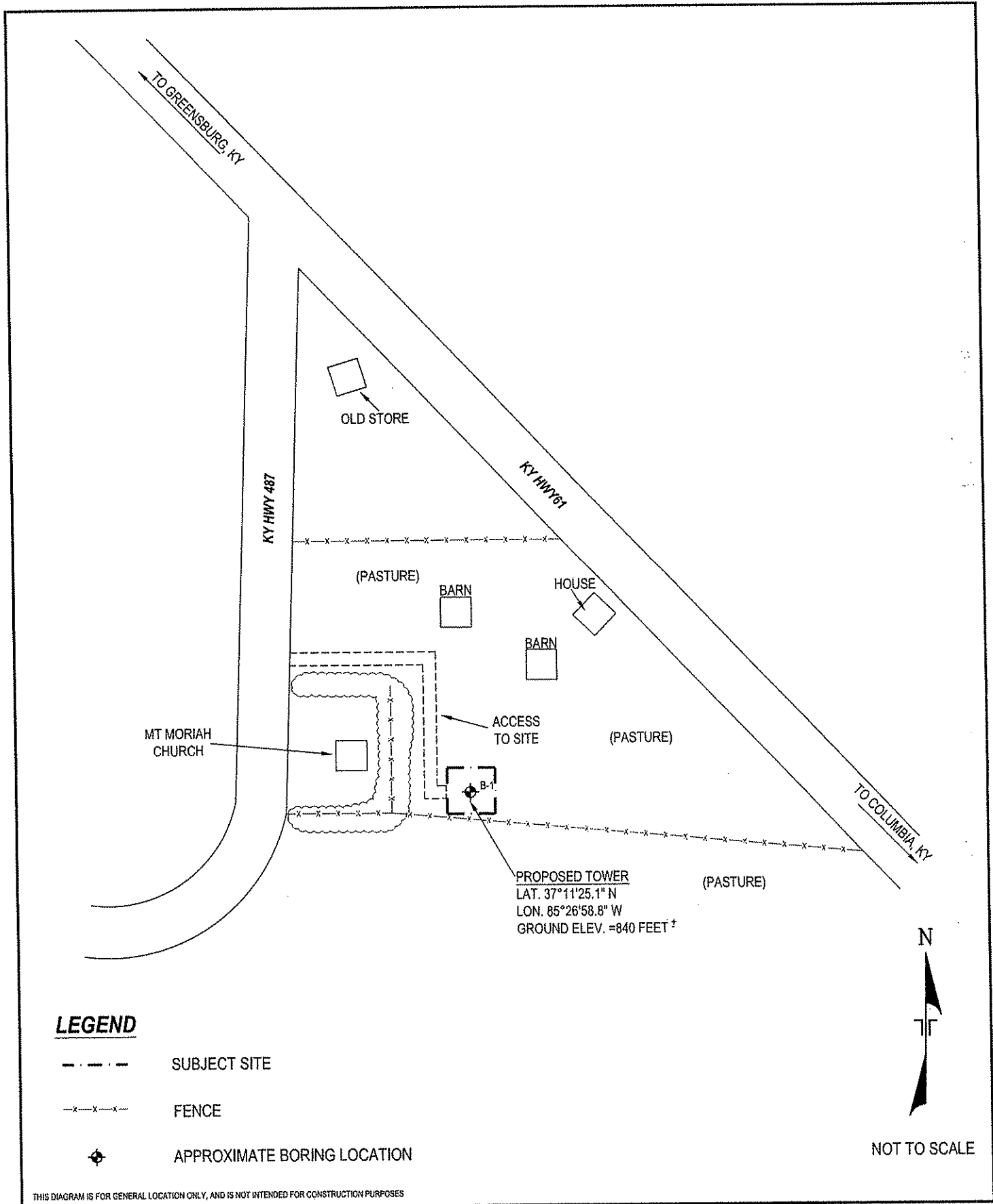
The analysis and recommendations presented in this report are based upon the data obtained from the boring performed at the indicated location and from other information discussed in this report. This report does not reflect variations that may occur across the site, or due to the modifying effects of 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



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

Project Mgr: SZR	Project No. 57067548		<b>BORING LOCATION DIAGRAM</b>	FIG. No.
Drawn By: SEG	Scale: AS SHOWN		GEOTECHNICAL EXPLORATION GRESHAM 5958 COLUMBIA HIGHWAY/ KY 61 GREENSBURG, KY	1
Checked By: MRF/SZR	File No. GEO57067548-1			
Approved By: EH	Date: DECEMBER 2006			
		4545 Bishop Lane, Suite 101 Louisville, KY 40218 (502) 456-1256 (502) 456-1278		

# LOG OF BORING NO. B-1

CLIENT <b>Bluegrass Cellular Partnership</b>		PROJECT <b>Proposed Gresham Telecommunication Tower</b>							
SITE <b>KY Highway 61 Greensburg, Kentucky</b>		PROJECT							
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	SAMPLES				TESTS		
			NUMBER	TYPE	RECOVERY, in.	SPT - N BLOWS / ft.	WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf
	Approx. Surface Elev.: 840 ft								
0.4	<b>TOPSOIL</b>	839.5							
	<b>FILL</b> , lean clay with organics, reddish brown, medium stiff	836.5	1	SS	18	5	24		
3.5	<b>LEAN CLAY</b> with rock fragments, reddish brown, stiff	831.5	2	SS	3	8	23		
		831.5	3	SS	5	50/2	24		
8.5	<b>ELASTIC SILT</b> with rock fragments, reddish & yellowish brown mottled, stiff to very stiff	816.5	4	SS	12	28	21		
		811.5	5	SS	8	24	25		
23.5	<b>SANDY CLAY</b> with rock fragments, light brown, very stiff	808	6	SS	16	13	32		
		811.5	7	SS	16	27	26		
28.5	<b>ELASTIC SILT</b> , grayish brown, stiff	808	8	SS	10	19	26		
		808	9	DB	100%	RQD 77%			
32	Auger Refusal at 32 feet, Began Coring <b>LIMESTONE</b> with interbedded shale, closely jointed, slightly weathered, gray, hard	798							
42	<b>Boring Terminated at 42 feet</b>	798							

LL = 42  
PL = 13  
PI = 29

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual.

WATER LEVEL OBSERVATIONS, ft	
WL	▼
WL	▼
WL	Dry Upon Auger Completion



BORING STARTED		11-16-06	
BORING COMPLETED		11-16-06	
RIG	CME-550	FOREMAN	MW
APPROVED	TMH	JOB #	57067548

BORING LOG 57067548 LOGS.GPJ TERRACON.GDT 12/18/06

## GENERAL NOTES

### DRILLING & SAMPLING SYMBOLS:

SS:	Split Spoon - 1-3/8" 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 Compressive Strength, Qu, psf</u>	<u>Standard Penetration or N-value (SS) Blows/Ft.</u>	<u>Consistency</u>
< 500	<2	Very Soft
500 - 1,000	2-4	Soft
1,001 - 2,000	5-7	Medium Stiff
2,001 - 4,000	8-15	Stiff
4,001 - 8,000	16-30	Very Stiff
8,000+	30+	Hard

#### RELATIVE DENSITY OF COARSE-GRAINED SOILS

<u>Standard Penetration or N-value (SS) Blows/Ft.</u>	<u>Relative Density</u>
0 - 3	Very Loose
4 - 9	Loose
10 - 29	Medium Dense
30 - 49	Dense
50+	Very Dense

#### RELATIVE PROPORTIONS OF SAND AND GRAVEL

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

#### GRAIN SIZE TERMINOLOGY

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

#### RELATIVE PROPORTIONS OF FINES

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

#### PLASTICITY DESCRIPTION

<u>Term</u>	<u>Plasticity Index</u>
Non-plastic	0
Low	1-10
Medium	11-30
High	30+

# Terracon

## GENERAL NOTES

### Description of Rock Properties

#### WEATHERING

Fresh	Rock fresh, crystals bright, few joints may show slight staining. Rock rings under hammer if crystalline.
Very slight	Rock generally fresh, joints stained, some joints may show thin clay coatings, crystals in broken face show bright. Rock rings under hammer if crystalline.
Slight	Rock generally fresh, joints stained, and discoloration extends into rock up to 1 in. Joints may contain clay. In granitoid rocks some occasional feldspar crystals are dull and discolored. Crystalline rocks ring under hammer.
Moderate	Significant portions of rock show discoloration and weathering effects. In granitoid rocks, most feldspars are dull and discolored; some show clayey. Rock has dull sound under hammer and shows significant loss of strength as compared with fresh rock.
Moderately severe	All rock except quartz discolored or stained. In granitoid rocks, all feldspars dull and discolored and majority show kaolinization. Rock shows severe loss of strength and can be excavated with geologist's pick.
Severe	All rock except quartz discolored or stained. Rock "fabric" clear and evident, but reduced in strength to strong soil. In granitoid rocks, all feldspars kaolinized to some extent. Some fragments of strong rock usually left.
Very severe	All rock except quartz discolored or stained. Rock "fabric" discernible, but mass effectively reduced to "soil" with only fragments of strong rock remaining.
Complete	Rock reduced to "soil". Rock "fabric" not discernible or discernible only in small, scattered locations. Quartz may be present as dikes or stringers.

#### HARDNESS (for engineering description of rock – not to be confused with Moh's scale for minerals)

Very hard	Cannot be scratched with knife or sharp pick. Breaking of hand specimens requires several hard blows of geologist's pick.
Hard	Can be scratched with knife or pick only with difficulty. Hard blow of hammer required to detach hand specimen.
Moderately hard	Can be scratched with knife or pick. Gouges or grooves to ¼ in. deep can be excavated by hard blow of point of a geologist's pick. Hand specimens can be detached by moderate blow.
Medium	Can be grooved or gouged 1/16 in. deep by firm pressure on knife or pick point. Can be excavated in small chips to pieces about 1-in. maximum size by hard blows of the point of a geologist's pick.
Soft	Can be gouged or grooved readily with knife or pick point. Can be excavated in chips to pieces several inches in size by moderate blows of a pick point. Small thin pieces can be broken by finger pressure.
Very soft	Can be carved with knife. Can be excavated readily with point of pick. Pieces 1-in. or more in thickness can be broken with finger pressure. Can be scratched readily by fingernail.

#### Joint, Bedding and Foliation Spacing in Rock<sup>a</sup>

Spacing	Joints	Bedding/Foliation
Less than 2 in.	Very close	Very thin
2 in. – 1 ft.	Close	Thin
1 ft. – 3 ft.	Moderately close	Medium
3 ft. – 10 ft.	Wide	Thick
More than 10 ft.	Very wide	Very thick

Rock Quality Designator (RQD) <sup>b</sup>		Joint Openness Descriptors	
RQD, as a percentage	Diagnostic description	Openness	Descriptor
Exceeding 90	Excellent	No Visible Separation	Tight
90 – 75	Good	Less than 1/32 in.	Slightly Open
75 – 50	Fair	1/32 to 1/8 in.	Moderately Open
50 – 25	Poor	1/8 to 3/8 in.	Open
Less than 25	Very poor	3/8 in. to 0.1 ft.	Moderately Wide
		Greater than 0.1 ft.	Wide

- a. Spacing refers to the distance normal to the planes, of the described feature, which are parallel to each other or nearly so.  
 b. RQD (given as a percentage) = length of core in pieces 4 in. and longer/length of run.

References: American Society of Civil Engineers. Manuals and Reports on Engineering Practice - No. 56. Subsurface Investigation for Design and Construction of Foundations of Buildings. New York: American Society of Civil Engineers, 1976.  
 U.S. Department of the Interior, Bureau of Reclamation, Engineering Geology Field Manual.

# UNIFIED SOIL CLASSIFICATION SYSTEM

Criteria for Assigning Group Symbols and Group Names Using Laboratory Tests<sup>A</sup>

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

$$^E C_u = D_{60}/D_{10} \quad C_c = \frac{(D_{30})^2}{D_{10} \times D_{60}}$$

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

<sup>G</sup>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.

<sup>I</sup>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.

<sup>L</sup>If soil contains  $\geq 30\%$  plus No. 200 predominantly sand, add "sandy" to group name.

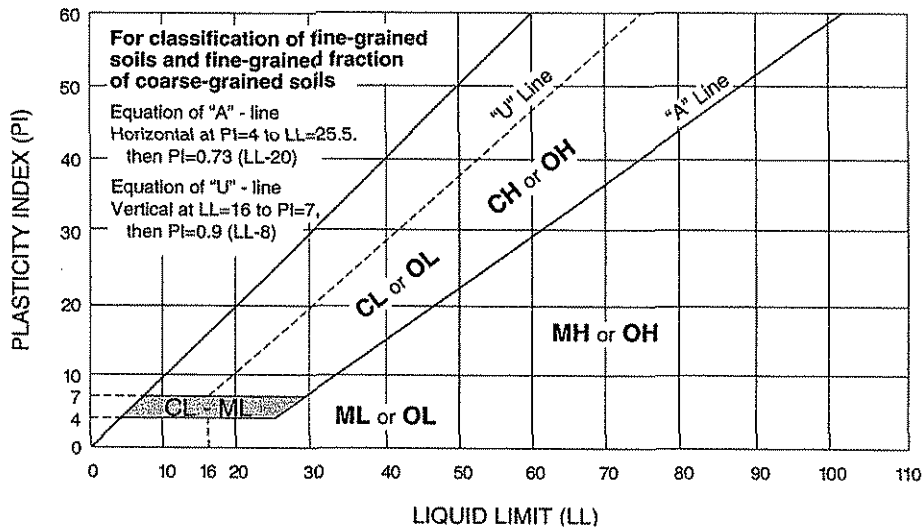
<sup>M</sup>If soil contains  $\geq 30\%$  plus No. 200, predominantly gravel, add "gravelly" to group name.

<sup>N</sup> $PI \geq 4$  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.

<sup>Q</sup> $PI$  plots below "A" line.



# Terracon

**Site: Gresham  
Lease Boundary and Topographic Survey  
Green County, Kentucky**

Grid North  
047055'



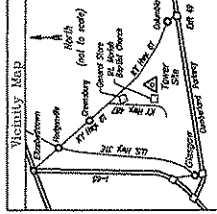
**Basis of Bearings**  
The survey system of this survey is based upon  
G.C.S. observations made on December 11, 2006  
by the Kentucky Geodetic Survey, Department  
of Transportation, using a Trimble SPP600 GNSS  
System, 4-wire steel.

**Tower Location Information**  
Destination: Gresham  
Substrate: Aluminum  
Latitude: 37°17'48" North  
Longitude: 83°50'30" West  
General Location: 0.230 Acres (2000 sq. ft.)  
State Plane Coordinates: (2000 sq. ft.)  
County: Green  
Elevation: 1775.00 feet (541.00 meters)

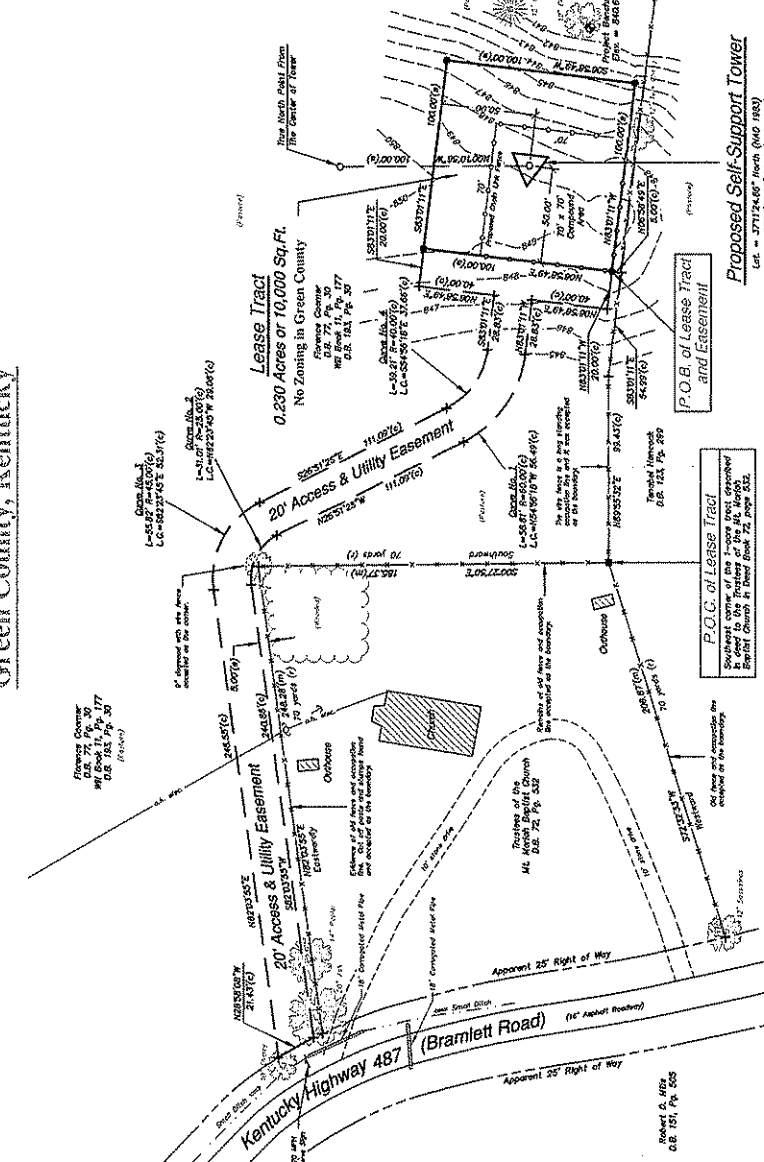
**Owner Information**  
Owner: Green County  
Address: 5333 Columbus Highway  
City: Greensburg, Kentucky 42743  
County: Green  
Phone: 606-332-6287  
Fax: 606-332-6287

**Project Bench Mark**  
Location: 1775.00 feet (541.00 meters)  
Elevation: 846.64 feet (258.00 meters)  
Coordinates: 2000 sq. ft. above peak. The first  
side of a 12.0m. 1" above peak. The first  
side of 0.230 Acres (2000 sq. ft.)

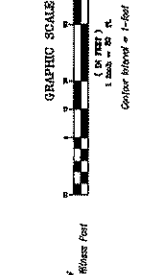
**Flood Plain Statement**  
According to the FEMA and site use is on  
unflooded area. No flood information is complete  
for this area. The Flood Insurance Study for  
Kentucky, however, a flood inspection of the  
site would indicate that this subject site does not  
lie within a flood prone area.



**Directions to Site**  
From Greensburg, Kentucky travel  
west on Kentucky Highway 42743 to  
Greensburg, Kentucky. From Greensburg,  
travel west on Kentucky Highway 42743 to  
Greensburg, Kentucky. From Greensburg,  
travel north on Kentucky Highway 42743 to  
Greensburg, Kentucky. From Greensburg,  
travel south on Kentucky Highway 42743 to  
Greensburg, Kentucky. From Greensburg,  
travel east on Kentucky Highway 42743 to  
Greensburg, Kentucky. From Greensburg,  
travel west on Kentucky Highway 42743 to  
Greensburg, Kentucky. From Greensburg,  
travel north on Kentucky Highway 42743 to  
Greensburg, Kentucky. From Greensburg,  
travel south on Kentucky Highway 42743 to  
Greensburg, Kentucky. From Greensburg,  
travel east on Kentucky Highway 42743 to  
Greensburg, Kentucky. From Greensburg,  
travel west on Kentucky Highway 42743 to  
Greensburg, Kentucky.



**Proposed Self-Support Tower**  
Lot = 377124.87' North (NAD 1983)  
Lot = 6829238.58' West (NAD 1983)  
Ground Elev. = 846.6 ft. at 2847 m (May 1989)



**Reduced Copy**

DATE: [blank]  
DRAWN BY: [blank]  
CHECKED BY: [blank]  
DATE: [blank]

501 Bramlett Road  
Greensburg, Kentucky 42743

Bluegrass Cellular  
2902 Ring Road  
Elizabethtown, Kentucky 42702

1  
SHEET NO.  
OF 1 SHEETS  
FILE NO.  
gresham.dwg

15 K.E. 3rd Street  
Landmark Surveying Co., Inc.  
Manchester, Indiana 47320  
(812) 337-0850  
Fax: (812) 337-0850  
Printed on 10-10-2011

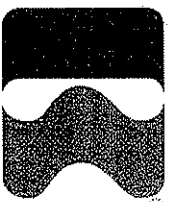
**Lease, Boundary and Easement Description**  
A tract of land is located about 1/2 mile southwest of the City of Greensburg, Kentucky Highway 487 (Bramlett Road). The map shows the location of this tract. The map shows the location of this tract. The map shows the location of this tract.

**PROPERTY OWNERS**  
The property is owned and title is held by the above-described  
owners. The property is owned and title is held by the above-described  
owners. The property is owned and title is held by the above-described  
owners.

**PROPERTY DESCRIPTION**  
The boundary of this tract is described as follows: The tract  
containing 0.230 acres (2000 sq. ft.) is bounded as follows:  
The boundary of this tract is described as follows: The tract  
containing 0.230 acres (2000 sq. ft.) is bounded as follows:

**SURVEYOR'S CERTIFICATION**  
I hereby certify that this plan has been compiled from a survey actually made upon  
the ground under my direct supervision on December 11, 2006 by the method of  
Global Positioning System (GPS). The survey was made in accordance with the  
method of Section 46 of the Kentucky Statutes. The survey is a Class B survey and  
is subject to the provisions of Section 46 of the Kentucky Statutes. The accuracy and  
precision of this survey meets the specifications of this class.  
P. Helms  
State of Kentucky  
Licensure No. 33985  
Professional Land Surveyor

- Surveyor's Notes**
- This survey is subject to a statement of work which may be obtained by an Applicant upon request. This documentation is not provided to the client.
  - The search of public records has been performed by this firm to determine any other recorded interests in the site of the present project.
  - The utilities shown on this plan are not shown and their location is not guaranteed. It is the responsibility of the contractor to locate any utilities present prior to construction.
  - The geographic information contained on this plan was as recorded by the client and may or may not be accurate. The Applicant is responsible for the accuracy of the information provided on the subject property.
  - According to the Kentucky Department of Transportation, County of Green, Green County, the right-of-way for Kentucky Highway 487 (Bramlett Road) is 20 feet wide from the centerline. The right-of-way for the proposed tower site is 20 feet wide from the centerline. The proposed tower site is 20 feet wide from the centerline.
  - The southern boundary of the proposed tower site is 20 feet wide from the centerline. The proposed tower site is 20 feet wide from the centerline.
  - The right-of-way for the proposed tower site is 20 feet wide from the centerline. The proposed tower site is 20 feet wide from the centerline.
  - The proposed tower site is 20 feet wide from the centerline. The proposed tower site is 20 feet wide from the centerline.



# BLUEGRASS CELLULAR

## APPROVAL SIGNATURES

BLUEGRASS CELLULAR  
CONSTRUCTION SUPERVISOR: \_\_\_\_\_

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

CITY REPRESENTATIVE: \_\_\_\_\_

TITLE: \_\_\_\_\_

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

PROPERTY OWNER/OWNERS: \_\_\_\_\_

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

TOWER OWNER/OWNERS: \_\_\_\_\_

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

## SHEET INDEX

SHEET NO.	DESCRIPTION	REVISION
TITLE SHEET	TITLE SHEET	
SURVEY	SURVEY	
A-1	FENCE DETAILS	
A-2	ANTENNA DETAILS 1	
E-1	ANTENNA DETAILS 2	
E-2	SITE PLAN - ELECTRICAL	
E-3	ELECTRICAL DETAILS	
E-4	FOUNDATION DETAILS	
E-5	GROUNDING DETAILS	
E-6	FOUNDATION DETAILS	
E-7	FOUNDATION DETAILS	
E-8	FOUNDATION DETAILS	
E-9	FOUNDATION DETAILS	
E-10	FOUNDATION DETAILS	
E-11	FOUNDATION DETAILS	
E-12	FOUNDATION DETAILS	
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E-98	FOUNDATION DETAILS	
E-99	FOUNDATION DETAILS	
E-100	FOUNDATION DETAILS	

SITE NAME: **GRESHAM**

911 ADDRESS: **501 BRAMLETT RD.  
GREENSBURG, KY. 42743**

COUNTY: **GREEN**

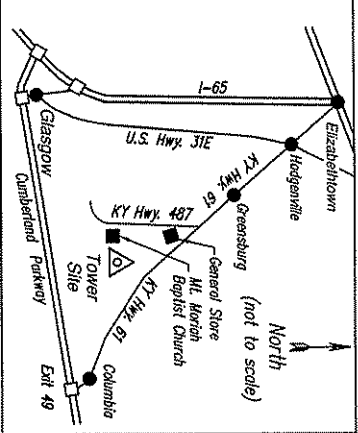
**TOWER LATITUDE & LONGITUDE**  
N 37° 11' 24.86" W 85° 26' 58.58"

## SITE DATA

PROPERTY OWNER:	Bluegrass Cellular 5025 Columbia Highway (270) 932-4577
TOWER OWNER:	Bluegrass Cellular (270) 788-0339
POWER COMPANY:	TAYLOR COUNTY RURAL ELECTRIC (270) 832-5742
TELEPHONE COMPANY:	WINSTON (800) 843-9214
BLUEGRASS CONSTRUCTION SUPERVISOR:	HAROLD WAINES (270) 202-7050



ROBEN BECKEN  
(502)224-3656  
OFFICE/FAX



## VICINITY MAP NOT TO SCALE DIRECTIONS TO SITE

From Elizabethtown, Kentucky, travel southeasterly on Kentucky Highway 61 to Greensburg, continue southeasterly from Greensburg on Kentucky Highway 61 for 5.8 miles to Kentucky Highway 487 (Bramlett Road), turn right onto Kentucky Highway 487 and travel south for 0.4 miles to the site access lane on the left or east side of the highway at the Mt. North Baptist Church, turn left onto the lane and travel easterly 500 feet to the tower site in a hayfield.



True  
North  
070/35



# Site: Gresham

## Lease Boundary and Topographic Survey

### Green County, Kentucky

**Basis of Bearings**

The bearings upon which this survey is based are G.S. observations made on November 11, 2008 using the National Geodetic Survey monument 7.205 and the Kentucky State Survey monument 21.205 at the intersection of US Highway 487 and US Highway 117, both as shown on the plan. The system is NAD 83.

**Tower Location Information**

**Proposed Tower**  
 Elevation: 600.00 (feet)  
 Diameter: 10.00 (feet)  
 Height: 150.00 (feet)  
 Weight: 12,000 (pounds)  
 Wind Force: 100 (mph)  
 Ice: None

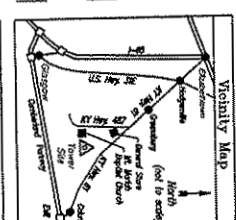
**Other Tower Information**  
 Name: Freedom Tower  
 Address: 2000 Eastern Highway, #41  
 Daniel Boone, Elizabethtown, KY 40120  
 Phone: (502) 932-4377  
 Fax: (502) 932-4377

**Project Search Mark**

**Project:** 1202281  
**Survey:** 1202281  
**Station:** 1202281  
**Point:** 1202281  
**Offset:** 1202281  
**Altitude:** 1202281  
**Dist:** 1202281  
**Bearing:** 1202281

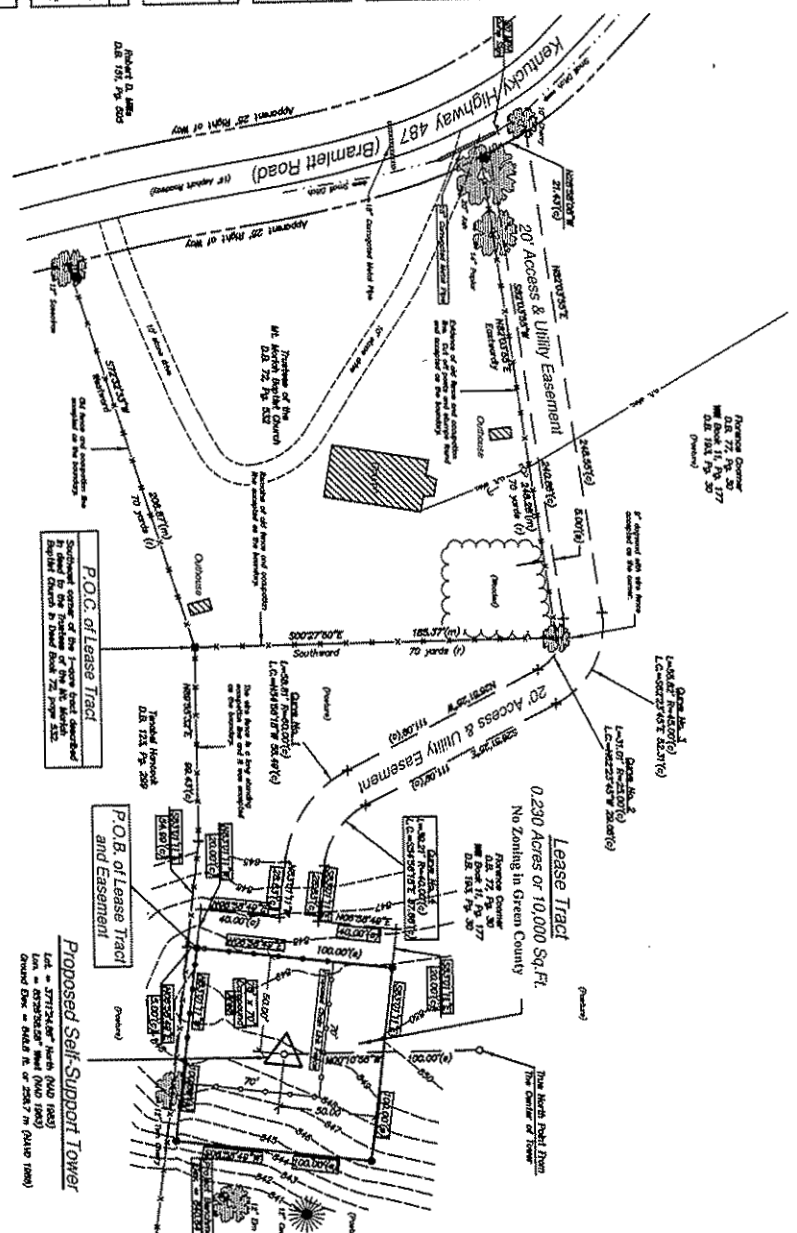
**Flood Plain Statement**

According to the FEMA maps, this area is not in a Special Flood Hazard Zone (SFHZ) as of the date of the survey. The elevation of the ground surface at the location of the tower is 600.00 feet, which is above the SFHZ. However, a flood hazard analysis is not a part of this survey. The user is advised to consult the office of the local Flood Insurance Rate Map (FIRM) for more information.



**Directions to Site**

From Elizabethtown, Kentucky, travel west on Eastern Highway 487 for 1.2 miles. Turn right onto Kentucky Highway 487 for 0.4 miles. Turn left onto the road shown on the plan for 0.4 miles. Turn right onto the road shown on the plan for 0.1 miles. The tower is located at the intersection of the road shown on the plan and the road shown on the plan.



**Lease Tract**  
 0.230 Acres or 10,000 Sq. Ft.  
 No Zoning in Green County

**P.O.C. of Lease Tract**  
 Located at the southeast corner of the tract, bounded by the road shown on the plan.

**Proposed Self-Support Tower**  
 150' High Tower  
 10' Diameter Tower

**Legend**

--- Right of Way  
 --- Easement  
 --- Lease Boundary  
 --- Property Boundary  
 --- Other Boundary  
 --- Contour Interval

**Surveyor's Notes**

- The survey is subject to a preliminary survey of the site and adjacent property by the surveyor and a final topographic survey of the site and adjacent property by the surveyor. The description was not provided by the client.
- No search of public records has been performed by this firm to determine any existing mortgages, liens, or other interests in the land or easements shown on this plan. The user is advised to conduct such a search prior to the survey. No utility lines were located by this survey. It shall be the responsibility of the user to locate any utility lines prior to construction.
- The topographic information contained on this plan was obtained from a topographic survey conducted by the surveyor on or about the date of the survey. The user is advised to verify the information shown on this plan prior to construction.
- The section boundary of the lease tract is shown on this plan as a dashed line. The user is advised to verify the location of the section boundary prior to construction.
- The right of way shown on this plan is a 50-foot wide right of way. The user is advised to verify the location of the right of way prior to construction.
- The right of way shown on this plan is a 5-foot wide right of way. The user is advised to verify the location of the right of way prior to construction.

**Directions to Site**

From Elizabethtown, Kentucky, travel west on Eastern Highway 487 for 1.2 miles. Turn right onto Kentucky Highway 487 for 0.4 miles. Turn left onto the road shown on the plan for 0.4 miles. Turn right onto the road shown on the plan for 0.1 miles. The tower is located at the intersection of the road shown on the plan and the road shown on the plan.

**Directions to Site**

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**Directions to Site**

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**GRAPHIC SCALE**

1" = 300'

Color: Printed in 1:50'

**DATE**  
12-15-08

**DRAWN BY**  
A. Miller

**CHECKED BY**  
D.L. Hobbs

**SHEET NO.**  
1

**OF 1 SHEETS**

**FILE NO.**  
gresham

**Surveyor's Certification**

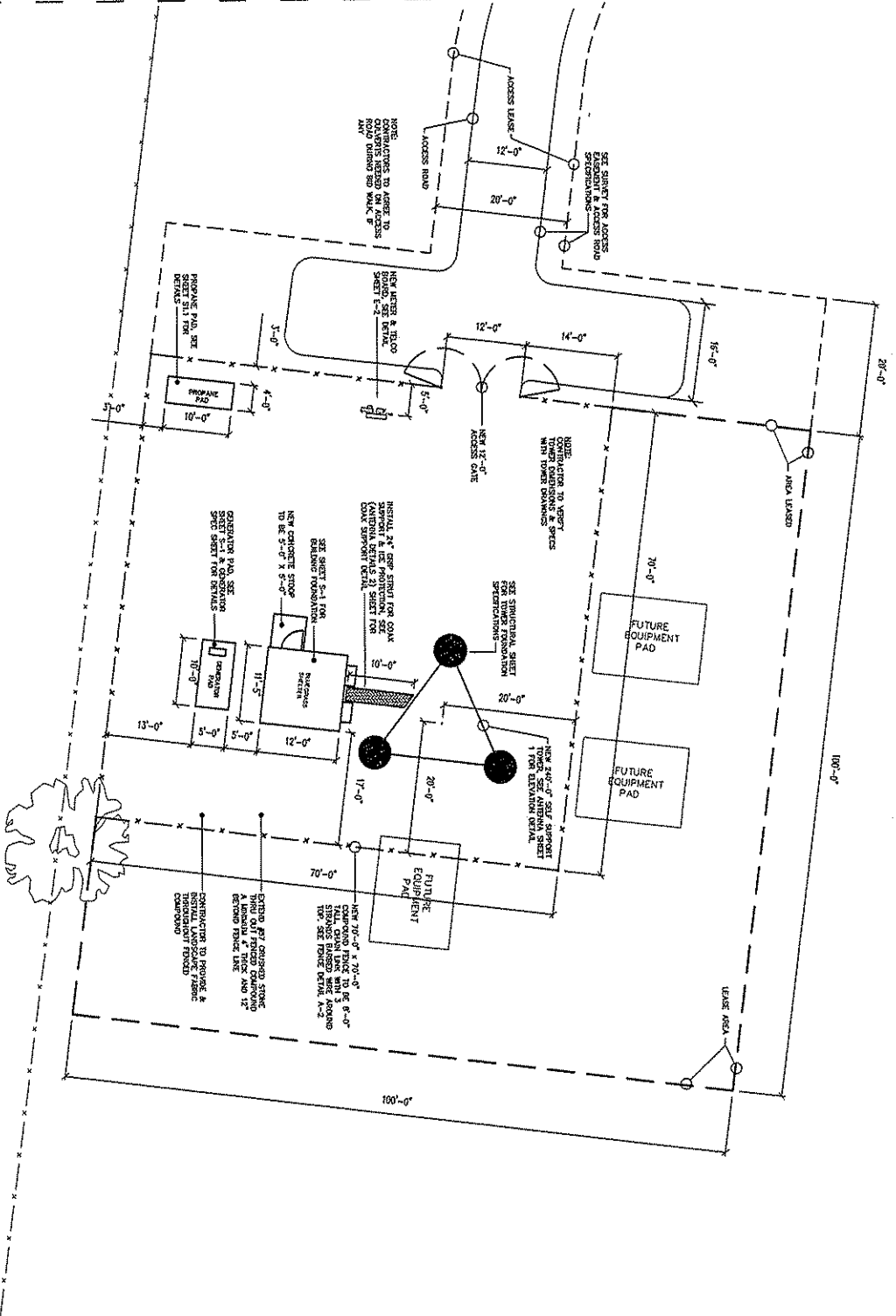
I, Daniel Miller, a duly Licensed Surveyor in the State of Kentucky, do hereby certify that this plan has been compiled from a survey conducted upon the ground under my direct supervision on December 15, 2008 by the licensed surveyor, D.L. Hobbs, and that I am not a party to this survey. The plan is not subject to any other survey of the same or adjacent property by the same or another surveyor. The survey was conducted in accordance with the provisions of the Kentucky Surveying Code and the rules and regulations of the Board of Surveying and Mapping.

**Surveyor's Name:** DANIEL MILLER  
**License No.:** 12345

**Bluegrass Cellular**  
 2902 Ring Road  
 Elizabethtown, Kentucky 42702

**Lease Boundary Survey**  
 501 Bramlett Road  
 Greensburg, Kentucky 42743

**Landmark Surveying Co., Inc.**  
 15 N.E. 3rd Street  
 Washington, Indiana 47261  
 (812) 257-0550  
 Email: lsc@landmarksurveying.com  
 Project No. 08-10-0378

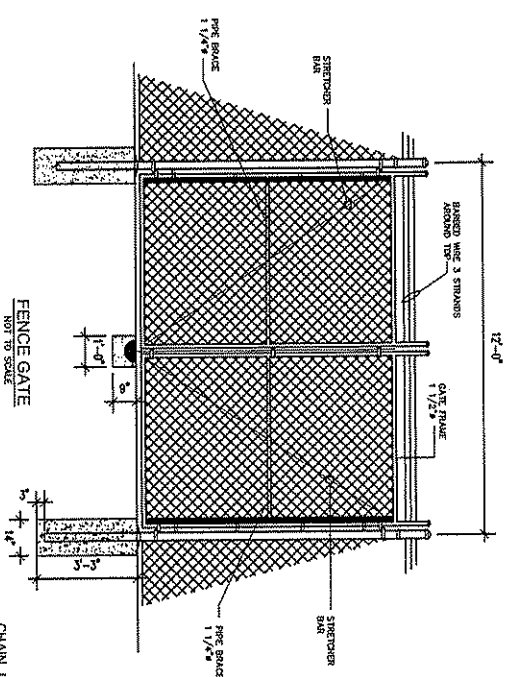


**GENERAL NOTES:**

- 1) EQUIPMENT PICK-UP AND DELIVERY TO SITE FROM BLUEGRASS CELLULAR STAGING FACILITY TO BE THE CONTRACTOR'S RESPONSIBILITY, INCLUDING CRANE SET, AND ALL COST INCURRED.
- 2) FOR BUILDING AND ALL CONCRETE PAD DETAILS REFER TO STRUCTURALS AND SHEET S11.
- 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..

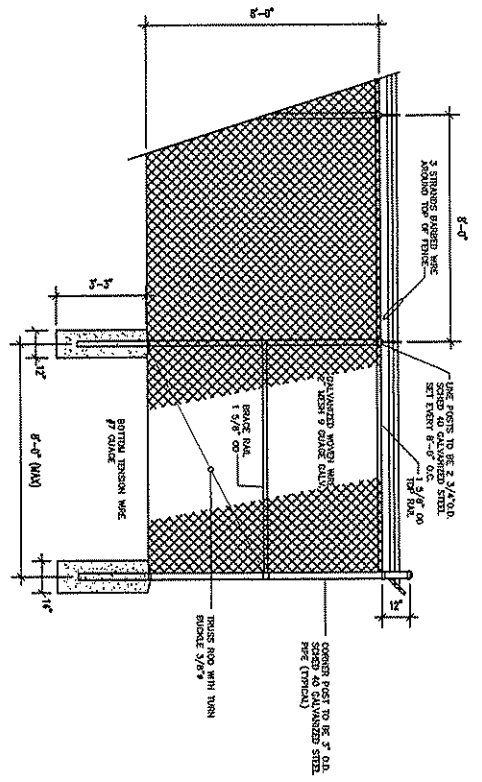
**SITE PLAN**  
SCALE: 1/8" = 1'-0"

A-1	DRAWN BY: <b>R. BECKER</b>	<b>BLUEGRASS CELLULAR, INC.</b> STANDARD CELLULAR SITE <b>GRESHAM</b>	NO.	DATE	REVISION	<p style="font-size: x-small; margin-top: 5px;">8405 MERICUNY DRIVE LOUISVILLE, KY 40261 (502) 538-0487 Fax: (502) 251-2618</p>
	ISSUE DATE: 1-18-07		SCALE: LISTED	501 BRAMLETT RD. GREENSBURG, KY. 42743		

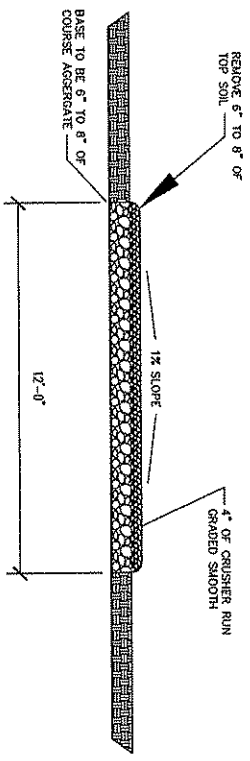


FENCE GATE  
NOT TO SCALE

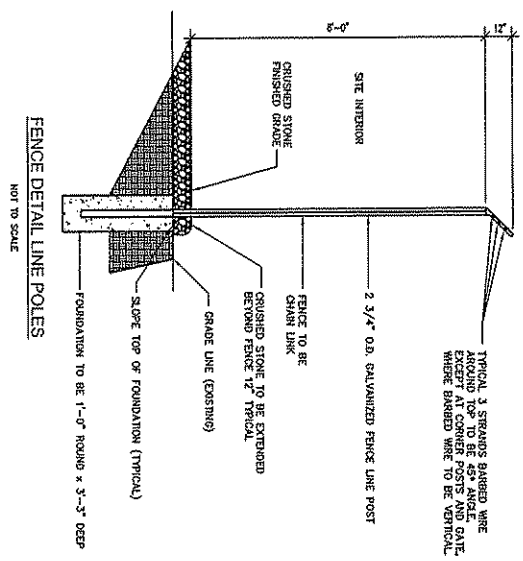
- CHAIN LINK FENCING NOTES:**
- 1 FABRIC: THE FABRIC SHALL BE COMPOSED OF HEXAGONAL HOT DIP GALVANIZED WIRE FLOKETS HELICALLY WOUND AND INTERWOVEN FROM NO. 9 W & M GAUGE COPPER BEARING STEEL WIRE TO FORM A CENTRICUS CHAIN LINK FABRIC HAVING A 2" MESH. TOP EDGES SHALL HAVE A THINSLIP AND STRIPPED
  - 2 POSTS: SHALL BE 2 3/4" O.D. SS 40 PIPE HOT GALVANIZED. THESE POSTS SHALL BE SET IN 12" DEEP CONCRETE FOUNDATION SET 1/2" IN BELL. SHARPED CONCRETE FOOTING, CROWNED AT TOP TO SHED WATER.
  - 3 TOP RAIL: SHALL BE 1 5/8" O.C. STANDARD PIPE HOT GALVANIZED AND SHALL BE FURNISHED IN RANDOM LENGTHS APPROXIMATELY NOT LESS THAN 20'.
  - 4 FABRIC JES: FOR ATTACHING FABRIC TO LINE POST, TOP RAIL, OR TOP WIRE, SHALL BE ALUMINUM STRIP OR WIRE OF APPROVED GRADE AND DESIGN, USED ON TOP OF RAIL EVERY 24" AND ONE POST EVERY 12'.
  - 5 EXTENSION ARMS: CAST STEEL, GALVANIZED TO ACCOMMODATE 3 STRANDS OF BARB WIRE, SINGLE ARM SLOPED TO 45°, AND VERTICAL ON TOP OF SHING GATES.
  - 6 BARRED WIRE (STEEL), ASTM A121 GALVANIZED STEEL, 12 GAUGE THICK WIRE, 3 STRANDS 4 POINTS AT 3" O.C.
  - 7 SHING GATE POSTS: SHALL BE 3" O.C. STANDARD HOT GALVANIZED, WEARING 5/16" LBS. PER FOOT.
  - 8 GATES: (A) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (B) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (C) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (D) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (E) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (F) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (G) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (H) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (I) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (J) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (K) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (L) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (M) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (N) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (O) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (P) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (Q) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (R) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (S) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (T) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (U) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (V) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (W) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (X) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (Y) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING. (Z) SHING GATES: 3" O.C. STANDARD PIPE WITH INTERNAL BRACING.
  - 9 FENCE TO BE TOOK ERECTED WITHIN TEN(10) DAYS OF COMPLETION OF CONSTRUCTION, IF TIME FRAME CANNOT BE MET, FLEETS MUST PROCEED WITH WORK.



FENCE DETAIL END POLES  
NOT TO SCALE




ROAD DETAIL  
NOT TO SCALE



FENCE DETAIL LINE POLES  
NOT TO SCALE

- CHAIN LINK FENCING NOTES:**
- 1 FABRIC: THE FABRIC SHALL BE COMPOSED OF HEXAGONAL HOT DIP GALVANIZED WIRE FLOKETS HELICALLY WOUND AND INTERWOVEN FROM NO. 9 W & M GAUGE COPPER BEARING STEEL WIRE TO FORM A CENTRICUS CHAIN LINK FABRIC HAVING A 2" MESH. TOP EDGES SHALL HAVE A THINSLIP AND STRIPPED
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  - 9 FENCE TO BE TOOK ERECTED WITHIN TEN(10) DAYS OF COMPLETION OF CONSTRUCTION, IF TIME FRAME CANNOT BE MET, FLEETS MUST PROCEED WITH WORK.

DRAWN BY: <b>R. BECKER</b>	ISSUE DATE: <b>1-18-07</b>	SCALE: <b>LISTED</b>	<b>BLUEGRASS CELLULAR, INC.</b> <b>STANDARD CELLULAR SITE</b> <b>GRESHAM</b> 501 BRAMLETT RD. GREENSBURG, KY. 42743	NO.	DATE	REVISION



8408 MERCURY DRIVE LOUISVILLE, KY. 40291  
(502) 8988427 Fax (502) 831-0318

# 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 REFUSE IS TO BE PROPERLY DISPOSED OF.

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

CONTRACTORS TO SUPPLY 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 INSTALL GPS BRACKET

BLUEGRASS CELLULAR ANTENNAS (6) TO BE MOUNTED AT 240'-0" C/L (VERIFY HEIGHT WITH CONSTRUCTION SUPERVISOR PRIOR TO INSTALLATION)

## TOWER HEIGHT & TYPE

240'-0" SELF SUPPORT TOWER

## ANTENNA SPECS

TYPE	SIZE	NUMBER	MOUNT	MOUNTING HEIGHT
ANTENNA (PRIMARY)	AP13-580-0500 1.7x7.5 W=10.3 D=4.0	6	110°, 230°, 350°	240'-0" C/L (VERIFY WITH CONSTRUCTION SUPERVISOR)
ANTENNA (SECONDARY)				

## ANTENNA MOUNTING HARDWARE SPECS

TYPE	SIZE	NUMBER
MOUNT (PRIMARY)	TRI-SECTOR MOUNT	3
MOUNT (SECONDARY)		

## ANTENNA TRANSMISSION LINES SPECS

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

## DISH SPECS

MISWAVE/DOME	SIZE	NUMBER	ADJUST	MOUNTING HEIGHT
DISH #1				
DISH #2				

## DISH MOUNT SPECS

TYPE	SIZE	NUMBER
MOUNT #1		
MOUNT #2		

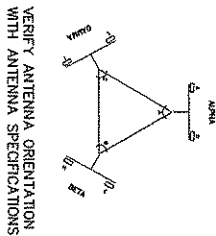
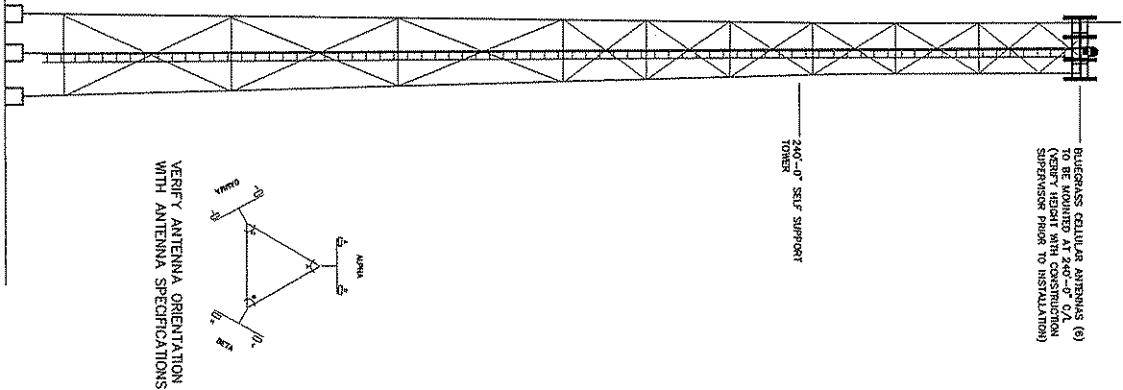
## DISH TRANSMISSION LINES

TYPE	SIZE	NUMBER
TRANSMISSION LINE #1		
TRANSMISSION LINE #2		

## ANTENNA SYNOPSIS

- ANTENNAS TO HAVE A 2"E X.Y.Z
- ANTENNA FREQUENCY 890.00 - 890.00

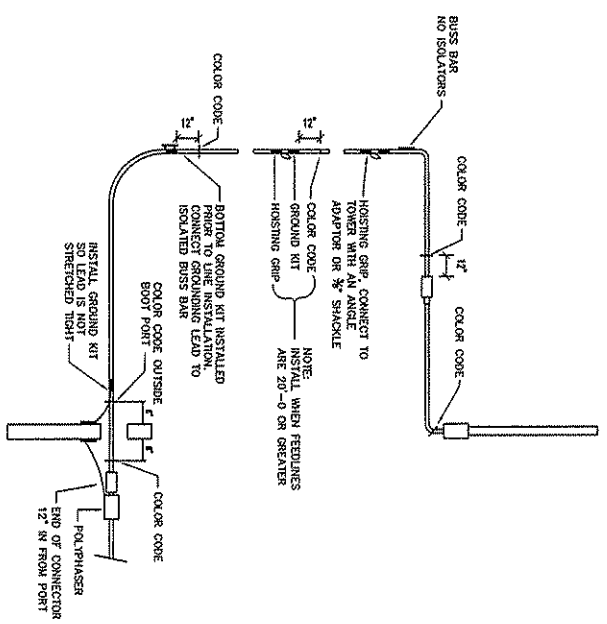
## SELF SUPPORT TOWER ELEVATION (TYPICAL)



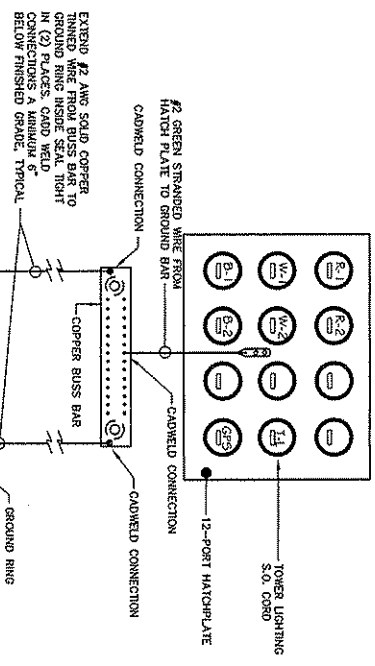
NO.	DATE	REVISION

**BLUEGRASS CELLULAR, INC.**  
STANDARD CELLULAR SITE  
**GRESHAM**  
501 BRAMLETT RD. GREENSBURG, KY. 42743

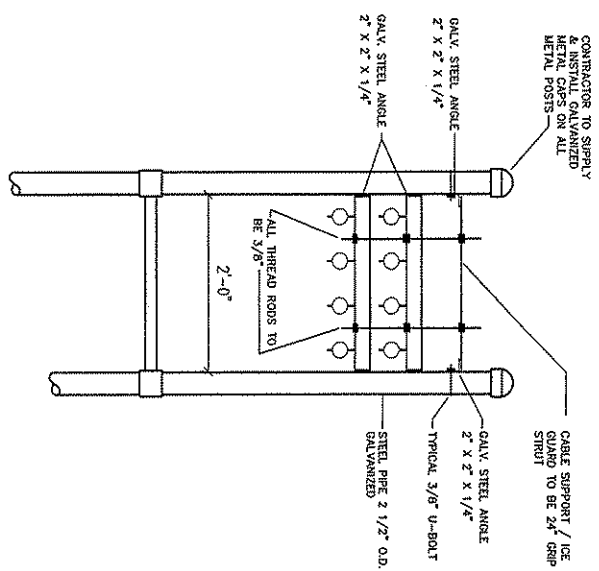
DRAWN BY: **R. BECKER**  
ISSUE DATE: 1-18-07  
SCALE: LISTED  
SHEET NUMBER: 1  
ANTENNA DETAILS



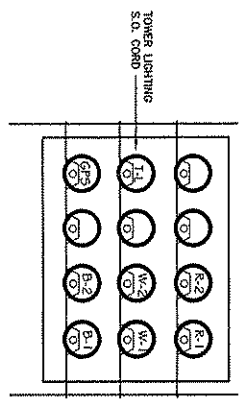
**COLOR CODING DETAIL**  
NO SCALE



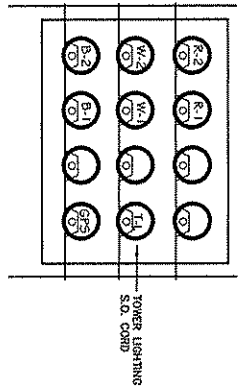
**BOOT PORT GROUNDING DETAIL**  
NO SCALE



**ICE BRIDGE / COAX SUPPORT DETAIL**  
NO SCALE

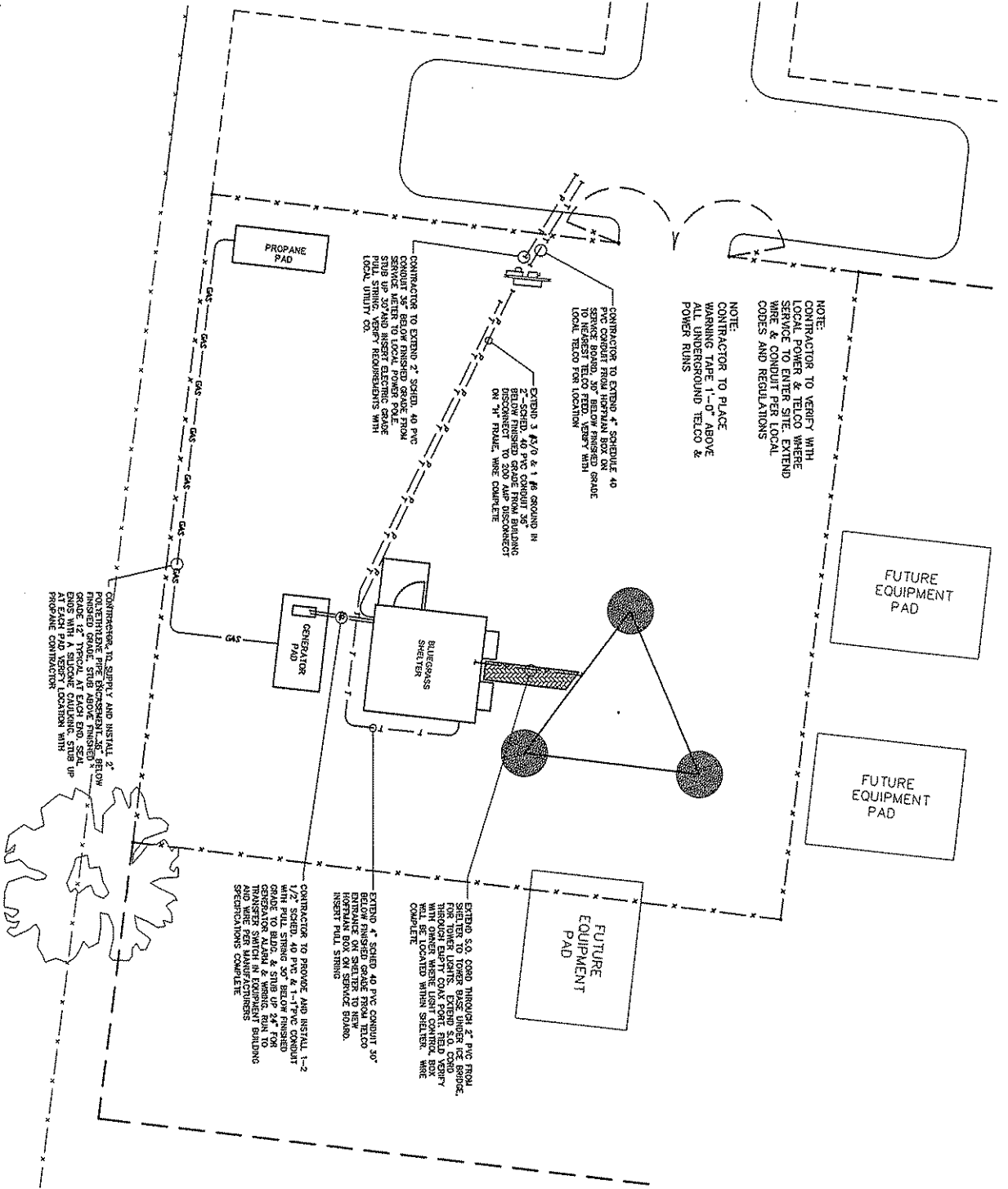


**COAX ENTRY DETAIL POWER SIDE (VIEW FROM INSIDE SHELL)**  
NO SCALE



**COAX ENTRY DETAIL A/C SIDE (VIEW FROM INSIDE SHELL)**  
NO SCALE

<b>REVISION</b> NO. DATE REVISION	<b>BLUEGRASS CELLULAR, INC.</b> STANDARD CELLULAR SITE <b>GRESHAM</b> 501 BRAMLETT RD. GREENSBURG, KY. 42743		 844 MERCURY DRIVE LOUISVILLE, KY. 40261 P#110012001833333333
	DRAWN BY: <b>R. BECKER</b>	ISSUE DATE: <b>1-16-07</b>	
SHEET NUMBER <b>ANTENNA DETAILS</b> <b>2</b>			



NOTE:  
CONTRACTOR TO VERIFY WITH LOCAL POWER & TELCO WHERE SERVICE TO ENTER SITE. EXTEND WIRE & CONDUIT PER LOCAL CODES AND REGULATIONS

NOTE:  
WARNING TAPE 1'-0" ABOVE ALL UNDERGROUND TELCO & POWER RUNS

CONTRACTOR TO EXTEND 4" SCHEDULE 40 PVC CONDUIT FROM MOUNTAIN BOX ON SERVICE PAD, 20' BELOW FINISHED GRADE TO LOCAL TELCO FOR LOCATION

EXTEND 1 #2/O & 1 #4 GROUND IN 2" SCHEDULE 40 PVC CONDUIT 35' BELOW FINISHED GRADE FROM BUILDING ON 2" TRUNK, USE COMPLETE

CONTRACTOR TO EXTEND 2" SCHEDULE 40 PVC CONDUIT FROM SERVICE METER TO LOCAL POWER POLE STUB UP 20' AND INSERT ELECTRIC GRADE LOCAL UTILITY CO.

CONTRACTOR TO PROVIDE AND INSTALL 1-2 1/2" SCHEDULE 40 PVC & 1-1/2" PVC CONDUIT FROM SERVICE METER TO SHED UP 2" FROM TRUNKER SWITCH IN EQUIPMENT BUILDING SPECIFICATIONS COMPLETE

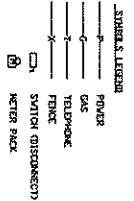
EXTEND 5/8" COORD THROUGH 2" PVC FROM SHELTER TO POWER GASE UNDER ICE BRIDGE FOR TOWER LIGHTS. EXTEND 5/8" COORD THROUGH SHELTER TO EQUIPMENT BUILDING WITH OWNER WHERE LIGHT CONTROL BOX WILL BE LOCATED WITHIN SHELTER. WIRE COMPLETE

EXTEND 4" SCHEDULE 40 PVC CONDUIT 30' ENTRANCE ON SHELTER TO NEW MOUNTAIN BOX ON SERVICE PAD. INSERT PULL STRINGS

CONTRACTOR TO PROVIDE AND INSTALL 2" POLYETHYLENE PIPE ENCASING 1-2" BELOW FINISHED GRADE TO SERVICE METER. SEAL ENDS WITH A SILICONE CAULKING STUB UP AT EACH END. SERT IN LOCATION WITH PROVIDE CONNECTION


- GENERAL ELECTRICAL NOTES:
- 1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICING 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 COMPANION'S FENCED AREA.
  - 4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POSTS & GATES. SPACE FENCE GROUNDED APPROXIMATELY 20'-0" O/C. (GALD 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. GROUNDED CONFIGURATION TO BE IN PARALLEL.
  - 6) CONTACT POINTS FOR GROUNDED TO BE CLEANED OF ANY RUST, PAINT, DIRT, ETC. TO CREATE A GOOD BOND FOR CONDUCTOR. AREA THAT HAS BEEN CLEANED TO BE RESEALED TO PREVENT RUSTING.
  - 7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.
  - 8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL BONDING, STAINLESS STEEL CONNECTORS ARE REQUIRED AT EACH CONNECTING POINT USING LOCK WASHERS.
  - 9) CONTRACTOR RESPONSIBLE FOR SEEING THAT UTILITY PERSONNEL MAKE FINAL CONNECTIONS, MAKING SURE THE TOWER ALARM IS CONNECTED AND WORKING. A TELEPHONE NUMBER FOR THE ALARM MUST BE SUPPLIED.
  - 10) CONTRACTOR RESPONSIBLE FOR MEG TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS.

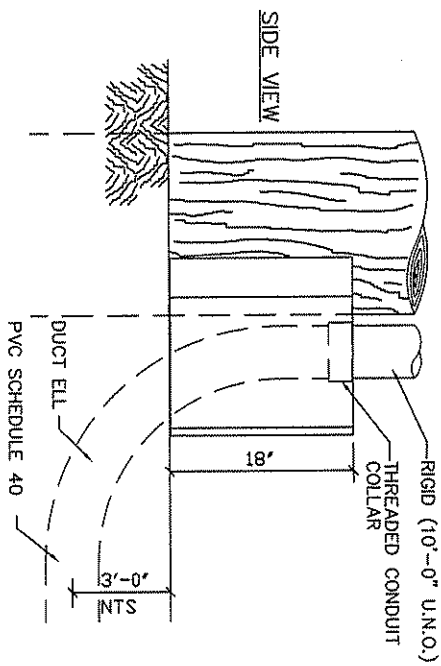
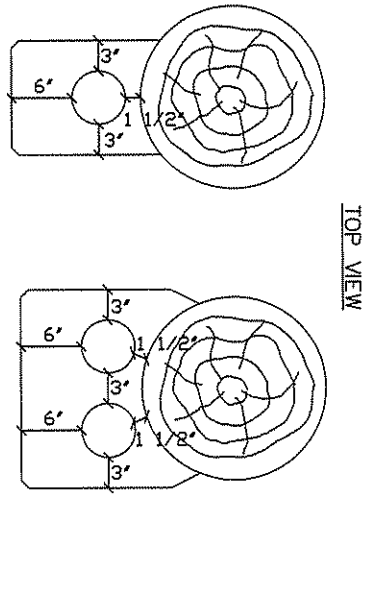
NOTE:  
CONTRACTOR TO PROVIDE WARNING TAPE IN TRENCHES FOR ALL POWER AND TELCO RUNS UNDER GROUND. TAPE TO BE INSTALLED 1'-0" ABOVE CONDUIT RUNS.



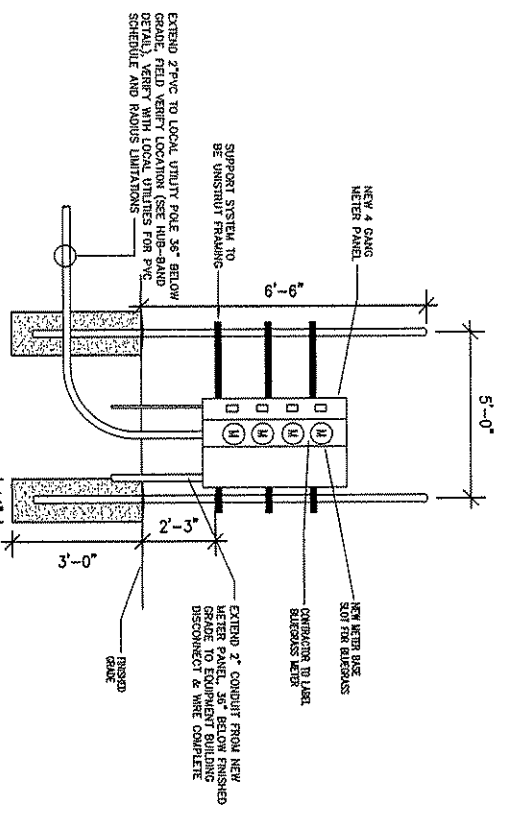
**SITE PLAN-ELECTRICAL**

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

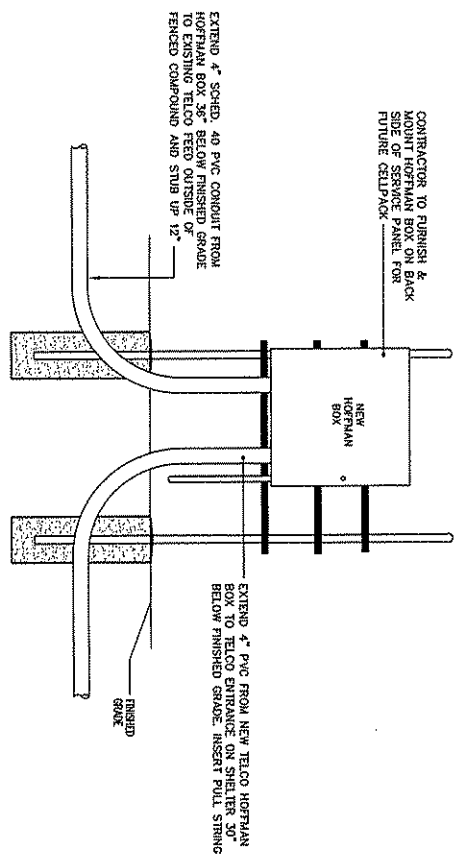
	<b>BLUEGRASS CELLULAR, INC.</b> <b>STANDARD CELLULAR SITE</b> <b>GRESHAM</b>		NO.	DATE	REVISION
	501 BRAMLETT RD. GREENSBURG, KY. 42743				
DRAWN BY: <b>R. BECKER</b>	ISSUE DATE: <b>1-18-07</b>	SCALE: <b>LISTED</b>	LISTED		
SHEET NUMBER: <b>E-1</b>	LISTED				



**HUB-BAND DETAIL**  
NO SCALE




**SERVICE BOARD DETAIL**  
NO SCALE

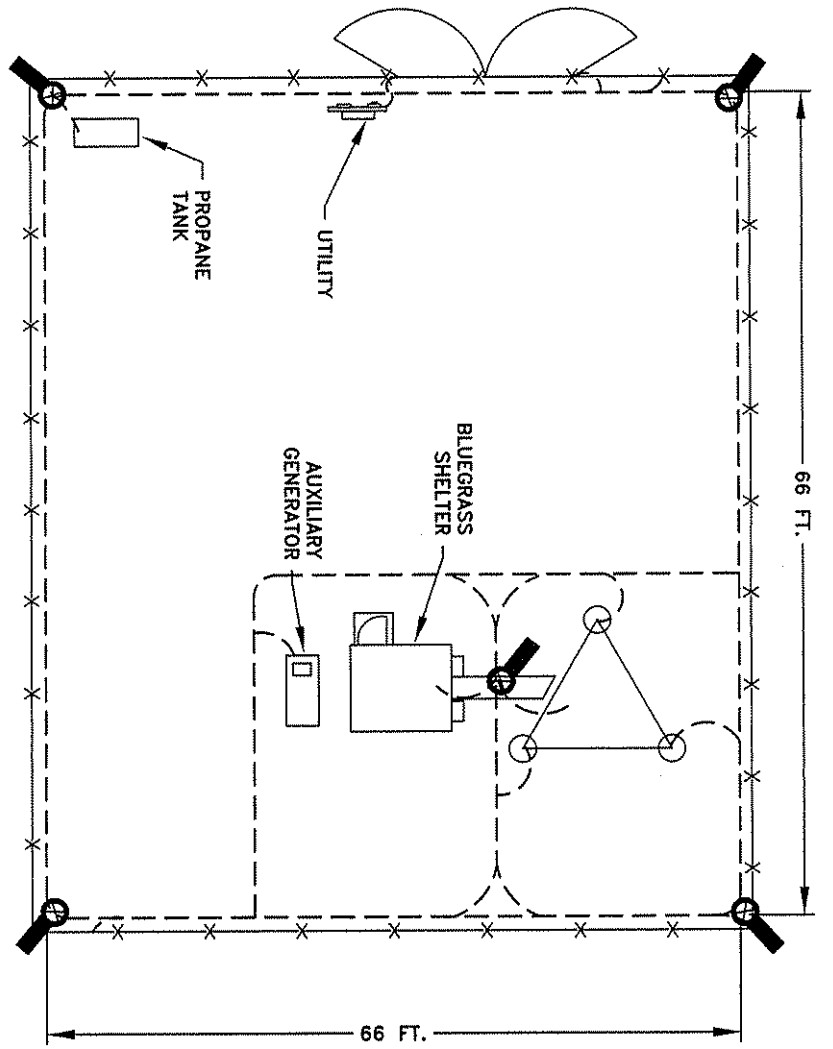
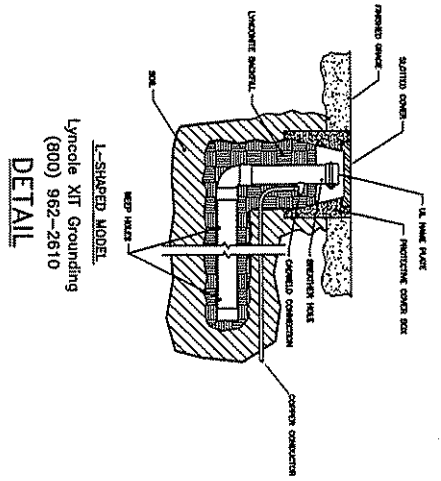


**BACKBOARD DETAIL**  
NO SCALE

DRAWN BY: <b>R. BECKER</b> ISSUE DATE: 1-18-07 SCALE: LISTED	<b>BLUEGRASS CELLULAR, INC.</b> STANDARD CELLULAR SITE <b>GRESHAM</b> 501 BRAMLETT RD. GREENSBURG, KY. 42743		NO.    DATE    REVISION
	501 BRAMLETT RD. GREENSBURG, KY. 42743		NO.    DATE    REVISION



6455 MERCURY DRIVE    LOUISVILLE, KY. 40261  
 (502) 558-8107    F#1(502)531-2101



**NOTES:**

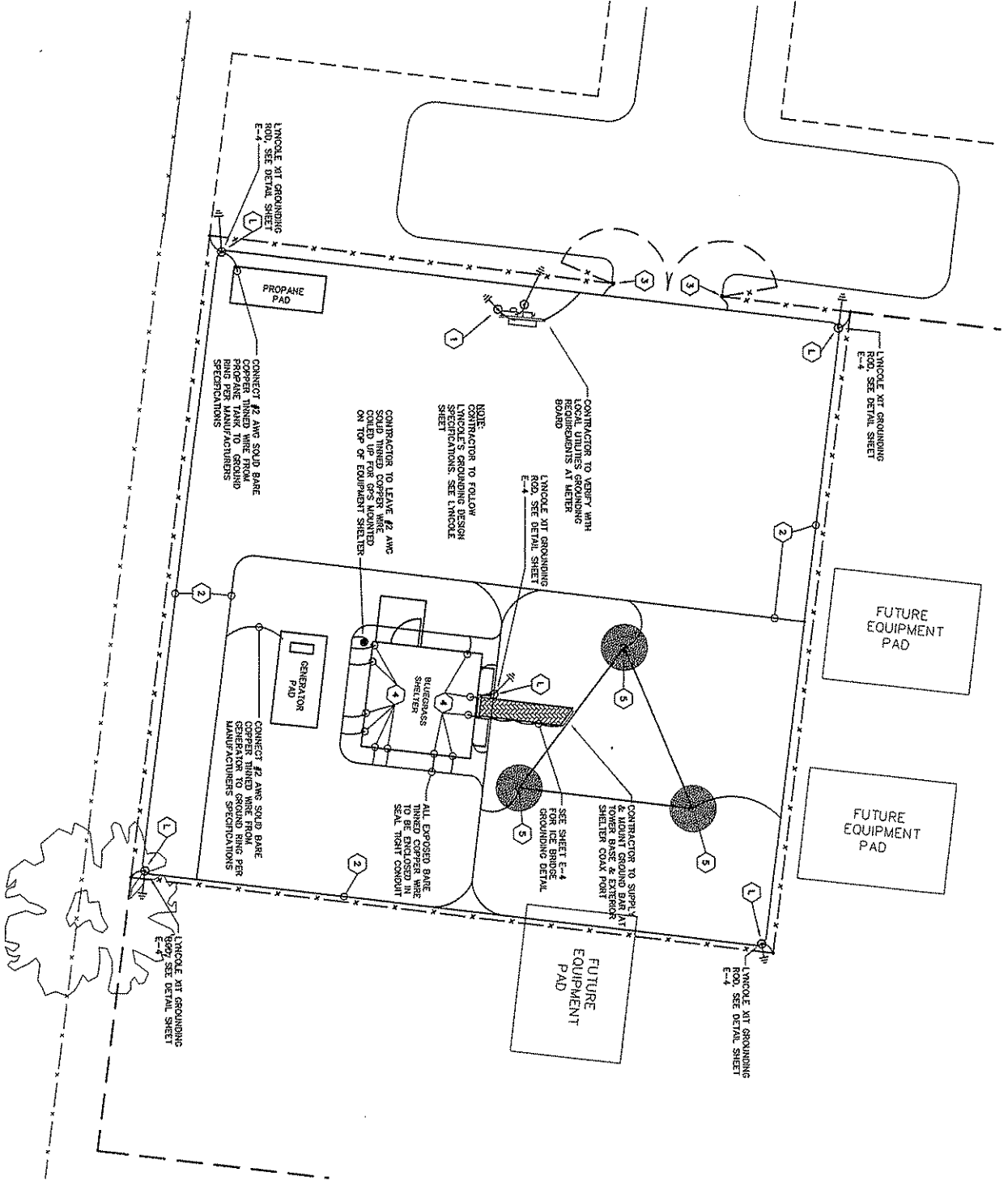
--- BARE #2 TINNED SOLID COPPER CONDUCTOR BURIED 30 IN. BELOW GRADE OR 6 IN. BELOW FROST LINE

ALL BENDS IN GROUND CONDUCTOR TO BE MADE WITH MIN. 12 IN. RADIUS

KEL-10CS (SEE DETAIL)

<b>LYNCOLE</b>		CLIENT / END USER RSB DESIGN / BLUEGRASS CELLULAR	
TECHNICAL SERVICES		DRAWING PROJECT NAME Gresham	
3547 VOYAGER STREET, SUITE 204 TERRANCE, CA, 90503 (800)962-2610 FAX (310)214-1114 ENGINEERING@LYNCOLE.COM		LOCATION: CITY, STATE Greensburg, KY	
SOIL DATA PROVIDED BY TERRACON		DRAWN BY RTW	
TITLE GROUNDING OPTION		APPROVED BY DATE 1/29/07	
REFERENCE NUMBER N/A		SCALE NONE	
		LTS NUMBER 070018	
		CALCULATED RESISTANCE < 10 OHMS	





- GENERAL ELECTRICAL NOTES:**
- 1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.
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  - 7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.
  - 8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL BONDING, SPLIT THE CONNECTIONS AS REQUIRED AT EACH CONNECTION POINT USING LOCK WASHERS.
  - 9) CONTRACTOR RESPONSIBLE FOR SEEING THAT UTILITY PERSONNEL MAKE FINAL CONNECTIONS, MAKING SURE THE NUMBER FOR THE ALARM MUST BE SUPPLIED.
  - 10) CONTRACTOR RESPONSIBLE FOR LEG TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS.

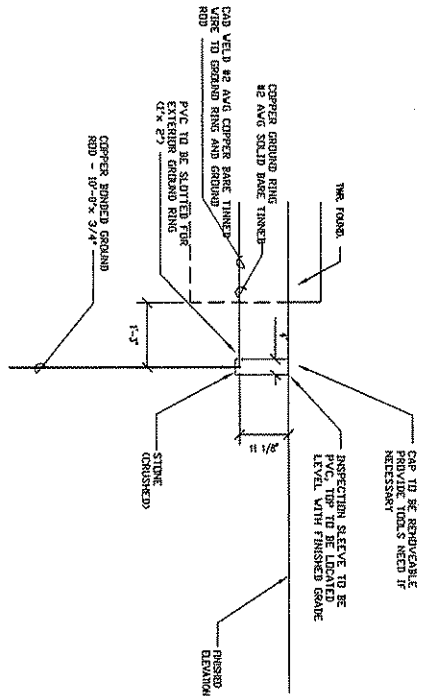
**NOTE:**  
 CONTRACTOR TO PROVIDE WARNING TAPE IN TRENCHES FOR ALL POWER AND TELCO RUNS UNDER GROUND. TAPE TO BE INSTALLED AT 9" BELOW GRADE.

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

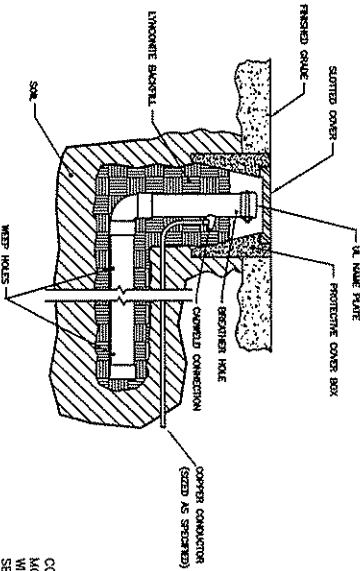
- REMARKS:**
- 1) LYNGCOL XIT GROUNDING ROD TO BE INSTALLED WHERE SHOWN AND TO MANUFACTURERS SPECIFICATIONS. (SEE SYMBOL SPECIFICATIONS)
  - 2) GROUNDING RODS 10'-0" LONG x 3/4" COPPER
  - 3) GROUNDING RODS TO BE INSTALLED ON PLANS
  - 4) ALL EXPOSED BARE THINED COPPER WIRE #2 AWG, GROUND RING BELOW GRADE 3/4" USE #2 AWG SOLID BARE THINED COPPER GROUND CONDUCTORS TO BE PARALLEL AND "C" WELD CONNECTIONS
  - 5) REBAR GROUNDING STRAP TO BE USED TO PROVIDE A COMMON BOND BETWEEN GATE AND GROUND RING. #2 AWG SOLID COPPER BARE THINED COPPER FINAL GROUNDING ROD TO BE USED TO PROVIDE A COMMON BOND TO THE GROUND RING AS DESCRIBED ABOVE.
  - 6) SPREAD GROUND TO BE PROVIDED TO GROUND RING FOR EACH OF THE FIVE STRUCTURES. MAKE HOOK, BONDING CONNECTION.
  - 7) FOR TOWER FRAME GROUNDING, REMOVE GALVANIZED COATING COMPLETELY FROM TOWER FRAME OR AT LEAST 6" FROM BY TOWER MANUFACTURER. COPPER CONDUCTOR TO BE COLD WELDED APPROXIMATELY 1'-0" FROM TOWER FRAME. GROUND FROM TOWER MANUFACTURER. ALL BENDS TO BE SMOOTH.

**SITE PLAN-GROUNDING**  
 SCALE: 3/32" = 1'-0"

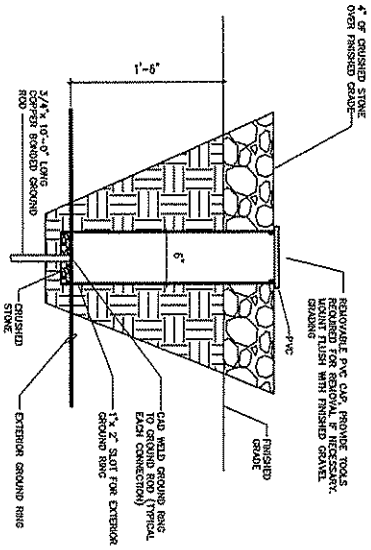
DRAWN BY: <b>R. BECKER</b> SHEET NUMBER: <b>E-3</b>	<b>BLUEGRASS CELLULAR, INC.</b> <b>STANDARD CELLULAR SITE</b> <b>GRESHAM</b> 501 BRAMLETT RD. GREENSBURG, KY. 42743	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">NO.</th> <th style="width: 10%;">DATE</th> <th style="width: 80%;">REVISION</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	NO.	DATE	REVISION							<p style="font-size: small; text-align: center;">       8400 MERCURY DRIVE LEXINGTON, KY. 40511        (606) 251-1111 FAX (606) 251-1111     </p>
NO.	DATE	REVISION										



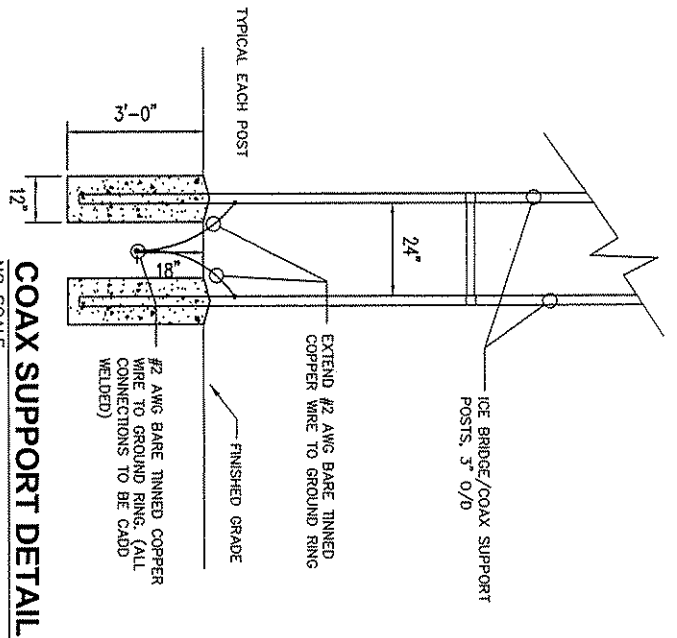
**GROUND ROD DETAIL**  
NO SCALE



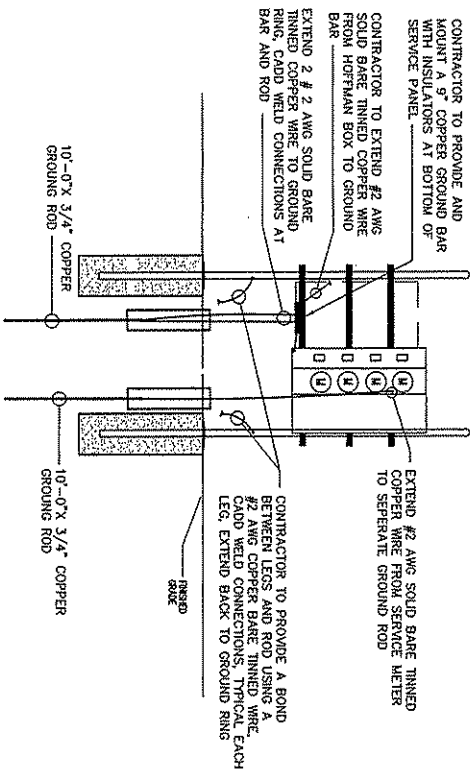
**LYNCOLE XIT ROD DETAIL**  
NO SCALE



**GROUND SLEEVE DETAIL**  
NO SCALE




**COAX SUPPORT DETAIL**  
NO SCALE

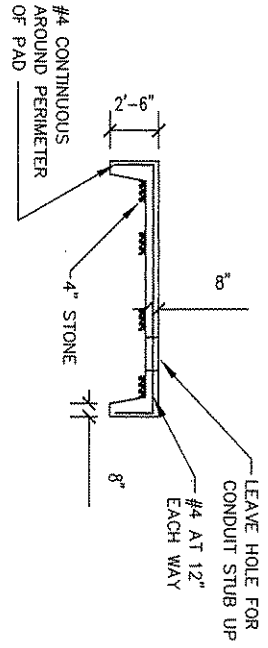
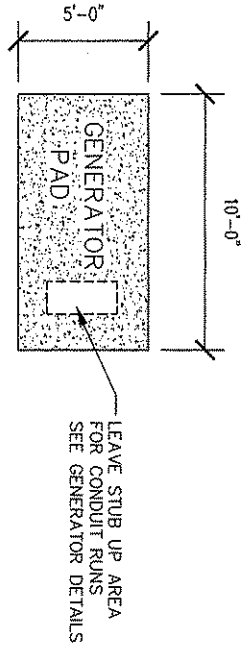


**SERVICE BOARD DETAIL**  
NO SCALE

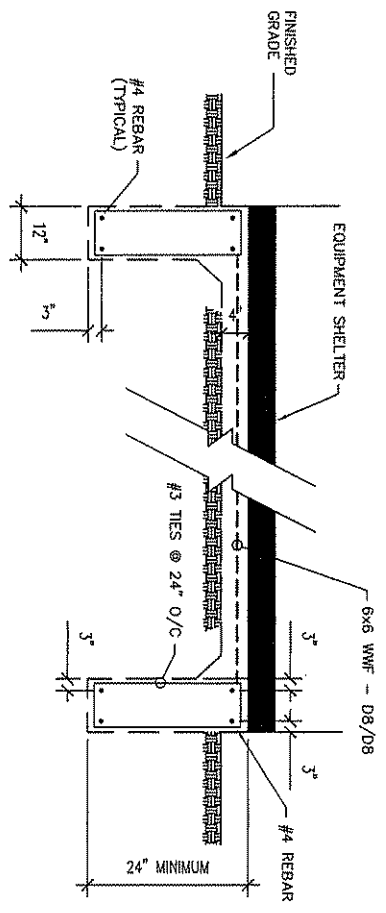
<b>E-4</b> SHEET NUMBER	DRAWN BY: <b>R. BECKER</b>	<b>BLUEGRASS CELLULAR, INC.</b> <b>STANDARD CELLULAR SITE</b> <b>GRESHAM</b> 501 BRAMLETT RD. GREENSBURG, KY. 42743	NO.	DATE	REVISION
	ISSUE DATE: 1-18-07				
SCALE: LISTED					



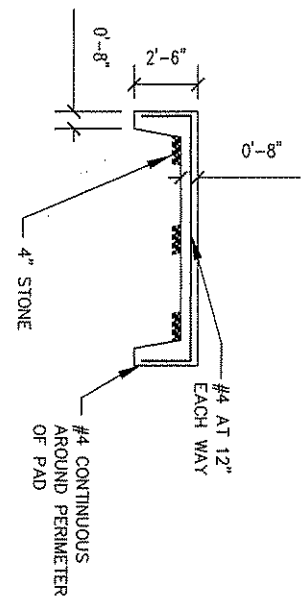
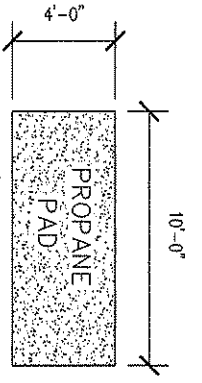
8400 INDUSTRIAL DR. #201  
 LOUISVILLE, KY 40258  
 (502) 261-1100



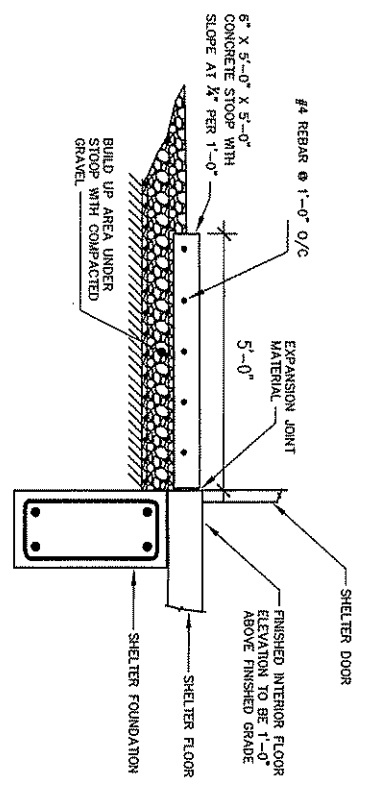
**FOUNDATION DETAIL**  
NO SCALE



**SHELTER FOUNDATION PLAN**  
NO SCALE



**FOUNDATION DETAIL**  
NO SCALE



**CONCRETE STOOP DETAIL**  
NO SCALE

DRAWN BY: <b>R. BECKER</b> ISSUE DATE: 1-18-07 SCALE: LISTED	<b>BLUEGRASS CELLULAR, INC.</b> <b>STANDARD CELLULAR SITE</b> <b>GRESHAM</b> 501 BRAMLETT RD. GREENSBURG, KY. 42743		NO.    DATE    REVISION

**RMB**  
 1452 MERCURY DRIVE LOUISVILLE, KY. 40241  
 (502) 259-1107 F+(502)251-1103

**GENERAL NOTES:**

- 1) THE CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT PICK UP DELIVERY TO SITE, ERECTION OF TOWER AND GRAVE SET, ALL COSTS ENCLOSED.
- 2) THE CONTRACTOR IS RESPONSIBLE FOR USING THE SITE PRIOR TO BIDDING AND REMOVING EXISTING STRUCTURES OR UTILITIES THAT MIGHT BE LOCATED ON OR AROUND THE COMPOUND THAT COULD INTERFERE.
- 3) THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING LOCAL AUTHORITIES NECESSARY FOR INSPECTIONS IF REQUIRED, PLEASE PROVIDE ADEQUATE NOTICE.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR CONTRACTING PERSONS RESPONSIBLE FOR ANY MATERIALS TESTING, PLEASE PROVIDE ADEQUATE NOTICE.
- 5) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER WITH FINAL TEST RESULTS ON ALL MATERIALS TESTING, IF ANY OF THE RESULTS ARE NOT AS SPECIFIED, THE CONTRACTOR SHALL REWORK OR OWNER IMMEDIATELY.
- 6) THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJACENT 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 AEE OR OWNER TO VERIFY.
- 8) THE CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY LIGHTING ON THE TOWER AND CONTRACTING 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.
- 9) THE CONTRACTOR IS RESPONSIBLE FOR ALL ON SITE WORK MEANS AND METHODS, WORK TO BE DONE IN COMPLIANCE WITH OSHA RULES AND REGULATIONS.
- 10) THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL SITE DRAINAGE, AND PROVIDING SILT AND EROSION CONTROL NECESSARY TO MAINTAIN ANY RUN OFF.
- 11) THE CONTRACTOR RESPONSIBLE FOR ANY SEED AND STRAW NECESSARY TO DAMAGED AREAS.
- 12) CONTRACTOR TO GRADE SMOOTH OR REPAIR ANY POT HOLES OR DITCHING ON PROPERTY OR ROAD THAT HAS OCCURRED DURING CONSTRUCTION AT CONTRACTORS EXPENSE.

**NOTE: UPON COMPLETION OF ALL CONSTRUCTION WORK, THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING CLOSEOUT DOCUMENTATION ON DISK OR PRINTOUTS CONTAINING THE FOLLOWING CLOSE OUT DOCUMENTATION:**

- ASBUILT CONSTRUCTION DRAWINGS
- SWEEP TEST
- GROUND TEST USING BLUEGRASS FORM
- ELECTRICAL COMPLIANCE CERTIFICATE (LEGIBLE COPY)
- BUILDING PERMIT
- SITE PHOTOS (ALL SIZES)
- SITE PHOTOS ON DISK

**"BEFORE YOU DIG"**

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE UTILITY PROTECTION CENTER, PHONE (606) 338-2222, AND THE BLUEGRASS CELLULAR CENTER, PHONE (606) 338-2222, FOR THE LOCATION OF ALL UTILITIES AND STRUCTURES PRIOR TO ANY CONSTRUCTION ON THIS PROJECT. ALL NEW SERVICE AND GROUNDING TRENCHES PROVIDE A WARNING TAPE @ 12 INCHES BELOW GRADE.

**GRADING & EXCAVATING NOTES:**

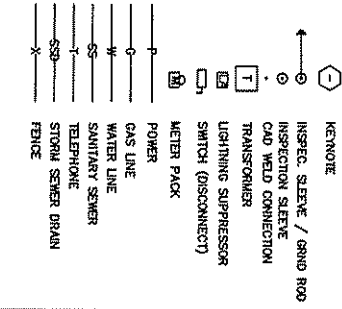
- 1) ANY DAMAGE TO EXISTING UTILITIES STRUCTURES, OR ALL COMPACTING RESULTS TO BE TURNED OVER TO OWNER.
- 2) PREPARATION FOR FILL: REMOVAL OF ALL DEBRIS, WET AND UNSATURATED SOIL, FILL WITH 2" MAXIMUM DIAMETER SAND, GRAVEL, OR CRUSHED STONE, AND COMPACTED TO 95% OF STANDARD PROCTOR DENSITY OR 80% OF STANDARD PROCTOR DENSITY IN GRASSED / LANDSCAPED AREAS WHERE REQUIRED.
- 3) BACK FILLING: EXCAVATED AREA SHALL BE CLEARED FROM STONES OR CLDS OVER 2 1/2" MAXIMUM DIAMETER AND COMPACTED TO A MINIMUM OF 90% OF STANDARD PROCTOR DENSITY. ALL COMPACTING RESULTS TO BE TURNED OVER TO OWNER.
- 4) ALL MATERIAL FOR FILL TO BE APPROVED BY ENGINEER AND ALL COMPACTING RESULTS TO BE TURNED OVER TO OWNER.
- 5) AFTER COMPLETION OF BELOW GRADE EXCAVATING, ALL EXCAVATED AREAS SHALL BE CLEARED OF ANY UNSATURATED MATERIALS, SUCH AS TRASH, DEBRIS, VEGETATION AND SO FORTH.
- 6) ANY EXCAVATING IN WHICH CONCRETE IS TO BE PLACED SHALL BE SUBSTANTIALLY HORIZONTAL ON UNDISTURBED AND EXCESS GROUND WATER.
- 7) IF SOUND SOIL IS NOT REACHED AT DESIGNATED EXCAVATION DEPTH, THE POOR SOIL IS TO BE EXCAVATED TO ITS FULL DEPTH AND EITHER REPLACED WITH OR OVERLAIN WITH A 2" MINIMUM DIAMETER SAND, GRAVEL OR CRUSHED STONE SPECIFIED FOR THE FOUNDATION, PLEASE CONSULT OWNER & ENGINEER FOR RECOMMENDATIONS.
- 8) MECHANICALLY COMPACTED GRANULAR MATERIAL OR SAND SHALL BE USED TO STABILIZE FOUNDATIONS EXCEEDING 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 REINFORCEMENT. PLEASE CONSULT ENGINEER FOR RECOMMENDATIONS.

**NOTE: GENERAL CONTRACTOR MUST HAVE A LICENSED PROFESSIONAL ENGINEER AT ALL PHASES OF CONSTRUCTION FOR DRAINAGE SAFETY PRECAUTIONS.**

**NOTE: THIS SCOPE OF WORK IS A BASIC OUTLINE FOR THE GENERAL CONTRACTOR TO FOLLOW. IT DOES NOT EXCLUDE OTHER UTILITIES ASSOCIATED WITH THE PROJECT. THE CONTRACTOR IS RESPONSIBLE TO COMPLETE THE UTILITY AND STRUCTURE LOCATION SURVEY TO THE DESIGNER PRIOR TO CONSTRUCTION. SEE RGS DESIGN IF SPECIFICATIONS MANUAL IS NEEDED. 502-599-9427**

- INSTALL CONCRETE PADS FOR BUILDING, PROPANE TANK, GENERATOR PAD.
- INSTALL ELECTRICAL AND GROUND FIELD FOR COMPOUND.
- EXCAVATION TO COMPOUND TO INCLUDE WEED CONTROL MAT.
- SITE TO HAVE PROPER DRAINAGE & EROSION CONTROL. (CRUSHED FORMATION)
- GC WILL BE RESPONSIBLE FOR ALL CRANE OPERATIONS IN ORDER TO SET FIBERGLASS 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 AND HOOK-UP.
- GC WILL BE RESPONSIBLE FOR CLEANING THE INSIDE OF BUILDING BEFORE THE SITE IS TURNED OVER TO THE OPERATIONS DEPARTMENT. THIS WILL INCLUDE SUPPLYING A 30 GALLON TRASH CAN, 30 GALLON TRASH BAGS, BROOM, DUST PAN AND DROOMAT FOR BUILDING.
- GC WILL BE RESPONSIBLE FOR APPLYING FOR ELECTRICAL SERVICE AND 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 CONTRACT SCOTT ANDERSON (EWP#9) 502-267-5315
- TI CONDUIT WILL NEED TO BE PLACED FROM POLE TO BUILDING (IF A MICROVAIVE 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.
- GC TO SEPARATE ALL MATERIALS & LABOR IN BID.
- CONTRACTOR TO BREAK DOWN BIDS USING THE FOLLOWING LINE ITEMS:
  - ROAD
  - FENCE
  - COMPOUND DEVELOPMENT
  - BUILDING, PROPANE, AND GENERATOR FOUNDATIONS
  - GROUNDING
  - TELCO
  - ELECTRIC
  - BUILDING SET
  - TOWER FOUNDATION
  - TOWER ERECTION
  - LINE INSTALL
  - ANTENNA INSTALL
  - PERMITS

**SYMBOLS LEGEND**



NO.	DATE	REVISION

**BLUEGRASS CELLULAR, INC.**  
**STANDARD CELLULAR SITE**  
**GRESHAM**

301 BRAMLETT RD. GREENSBURG, KY. 42743

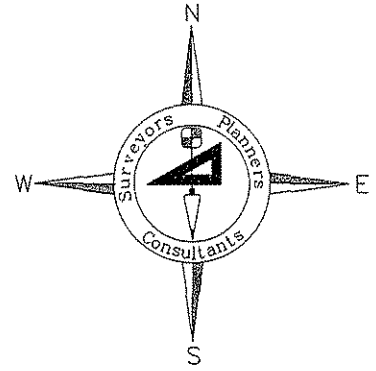
DRAWN BY: <b>R. BECKER</b>	ISSUE DATE: <b>1-18-07</b>	SCALE: <b>LISTED</b>
SHEET NUMBER		



# Landmark Surveying Co., Inc.

---

Darren L. Helms, R.L.S., PRESIDENT  
Dennis N. Helms, R.L.S., VICE PRESIDENT



15 N.E. 3rd Street  
Washington, Indiana 47501  
Phone: 812-257-0950  
Fax: 812-257-0953  
E-mail: landmark@dmrtc.net

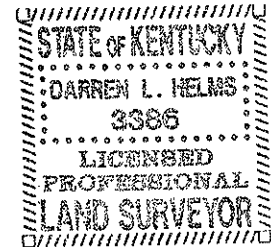
## Directions to the Site From the County Seat of Green County, Kentucky

Gresham Site  
Green County, Kentucky

From the Green County Courthouse in downtown Greensburg, Kentucky: travel south one block on 1<sup>st</sup> Avenue to West Columbia Avenue; turn left onto West Columbia Avenue and travel east one block to Kentucky Highway 61; turn right onto Kentucky Highway 61 and travel southeasterly for 5.8 miles to Kentucky Highway 487 (Bramlett Road); turn right onto Kentucky Highway 487 and travel south for 0.4 miles to the site access lane on the left or East side of the highway at the Mt. Moriah Baptist Church; turn left onto the lane and travel easterly 500 feet to the tower site in a hayfield.

Darren L. Helms  
Darren L. Helms, Kentucky Professional Land Surveyor No. 3386

DEC. 15, 2006  
Date



**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 23 day of October, 2006, by and between Florence Coomer, a single person, whose address is 5958 Columbia Hwy., Greensburg, KY 42743, Peggy J. Coffey, a single person, whose address is 1403 Ebenezer Road, Greensburg, KY 42743, Keith V. Coomer and ~~Jane~~ <sup>Jayne</sup> Coomer, his wife, whose address is 2557 Christine Road, Columbia, KY 42728, and Mitchell O. Coomer, a single person, whose address is 5958 Columbia Highway, Greensburg, KY 42743 (the "Optionor(s)" and Kentucky RSA #4 Cellular General Partnership, d/b/a Bluegrass Cellular, a Kentucky general partnership with principal office and place of business at 2902 Ring Road, Elizabethtown, KY 42701 (the "Optionee").



WITNESSETH:

**WHEREAS**, the Optionor(s) are the owners (Florence Coomer owning a life estate and Peggy J. Coffey, Keith V. Coomer and Mitchell O. Coomer each owning a one-third remainder interest) of certain real property located in **Green** County, **Kentucky** as more particularly described on Exhibit A attached hereto and incorporated herein by reference (the "Property"); and

**WHEREAS**, the Optionor(s) wishes to grant to the Optionee, and the Optionee wishes to obtain from the Optionor(s), an option to lease 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.

Site Name: Gresham

1. In consideration of **One Thousand Eight Hundred Dollars and Zero Cents (\$1,800.00)** paid by the Optionee to the Optionor(s) (the "Option Consideration"), the receipt of which is hereby acknowledged by the Optionor(s), the Optionor(s) hereby grants to the Optionee an exclusive and irrevocable option to lease 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 23 Apr. 2008, (the "Option Period") as set forth in Paragraph 5 thereof.
2. The parties hereto anticipate that the Property comprises approximately a **One Hundred Foot by One Hundred Foot** 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 14 hereof.
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."

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.

Site Name: Gresham

14. For the purposes of giving notice as permitted or required herein, the address of the Optionor(s) shall be: 5958 Columbia Hwy., Greensburg, KY 42743; the Optionee's address shall be: 2902 Ring Road, Elizabethtown, KY 42701.
15. 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 Green County, **Kentucky**.

## 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 **five (5) year(s)** from the commencement date of the Lease Agreement and shall include **three (3) additional five (5)-year terms** per the Lease Agreement. Optionee may, by providing written notice at least sixty (60) days prior to the expiration of the original or any renewal Lease term, elect to unilaterally terminate this Lease at the end of any original or renewal Lease term. Such notice must be personally delivered or sent via registered or certified mail, return receipt requested, to the address of the Optioner(s) set forth in Paragraph 14 hereof. The Lease amount shall be adjusted at the end of each term by an increase of 12%.

Site Name: Gresham

2. The Optionee shall pay to the Optionor(s) rent for the Property in the sum of **Four Thousand Eight Hundred Dollars and Zero Cents (\$4,800.00)** yearly, to be paid in advance. All rent payments shall be personally delivered or mailed to the Optionor(s) at the address set forth in Paragraph 14 hereof. Any check payment of the rent due under the Lease shall be payable to the order of each of the Optionors, unless all of the Optionors advise the Optionee otherwise in writing.
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 Optionors represent and warrant that they are the owners of the Property and the Optionors 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 the Lease.
7. The Optionee agrees to maintain an access road in a passable manner for the term of the lease.
8. Licensee's Payment of Taxes, Fees and Assessments. Optionee shall pay directly to the applicable federal, state or local governmental unit or agency ("Governmental Entity") or to Optionor if Optionor is invoiced by such Governmental Entity, all taxes, fees, assessments or other charges assessed by any Governmental Entity directly against Optionee's Equipment and/or Optionee's use of the Facility. Optionee shall also pay to Optionor Optionee's Pro Rata Share of all taxes, fees, assessments or charges including, but not limited to, personal property taxes attributable to Optionee's equipment and antenna(s), municipal franchise fees, use fees, municipal application fees, installation fees and increases thereof. "Pro Rata Share" shall mean the fraction of decimal equivalent of dividing one (1) by the total number of then existing users occupying a tower on the last day of the applicable calendar year.
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.

Site Name: Gresham

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]

**EXECUTION OF AGREEMENT(S)**

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

OPTIONORS:

Florence Coomer  
Florence Coomer

Peggy J. Coffey  
Peggy J. Coffey

Keith V. Coomer  
Keith V. Coomer

Jayne Coomer  
Jayne Coomer

Mitchell O. Coomer  
Mitchell O. Coomer

OPTIONEE:

Kentucky RSA #4 Cellular General Partnership,  
d/b/a Bluegrass Cellular

By: Ron Smith  
Ron Smith

Its: Keith Rep 10/30/06

STATE OF Ky  
COUNTY OF Green

The foregoing instrument was acknowledged before me this 17 day of Oct, 2006,  
by **Florence Coomer** to be her free act and deed.

*Sammy Davis*  
NOTARY PUBLIC STATE AT LARGE  
My commission expires: 12-10-08

STATE OF Ky  
COUNTY OF Green

The foregoing instrument was acknowledged before me this 17 day of Oct, 2006,  
by **Peggy J. Coffey** to be her free act and deed.

*Anthony Baker*  
NOTARY PUBLIC STATE AT LARGE  
My commission expires: 6/29/2009

STATE OF Kentucky  
COUNTY OF Adair

The foregoing instrument was acknowledged before me this 3 day of October, 2006,  
by **Keith V. Coomer** to be his free act and deed.

*Sonji Powell*  
NOTARY PUBLIC STATE AT LARGE  
My commission expires: 1-8-2007

STATE OF Kentucky  
COUNTY OF Adair

The foregoing instrument was acknowledged before me this 3 day of October, 2006,  
by **Jane Coomer** to be her free act and deed.  
*Jayne* <sup>JC</sup>

*Sonji Powell*  
NOTARY PUBLIC STATE AT LARGE  
My commission expires: 1-8-2007



Site Name: Gresham

STATE OF Ky  
COUNTY OF Green

The foregoing instrument was acknowledged before me this 17 day of Oct, 2006,  
by **Mitchell O. Coomer** to be his free act and deed.

James S Davis  
NOTARY PUBLIC STATE AT LARGE  
My commission expires: 10-6-2008

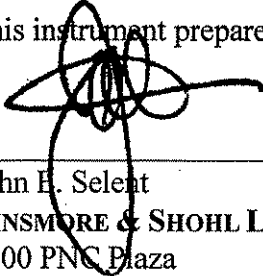
STATE OF KENTUCKY  
COUNTY OF HARDIN

The foregoing instrument was acknowledged before me this 30 day of October, 2006,  
by **Ron Smith**, as Auth. Rep. of Kentucky RSA #4 Cellular General Partnership, d/b/a  
Bluegrass Cellular, for and on behalf of the general partnership, to be his free act and deed.

Jim Kice  
NOTARY PUBLIC STATE AT LARGE  
My commission expires: 1-21-09

Site Name: Gresham

This instrument prepared by:



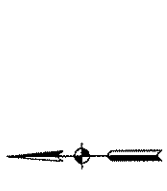
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John H. Seleit  
**DINSMORE & SHOHL LLP**  
1400 PNC Plaza  
500 West Jefferson Street  
Louisville, KY 40202  
(502) 540-2300

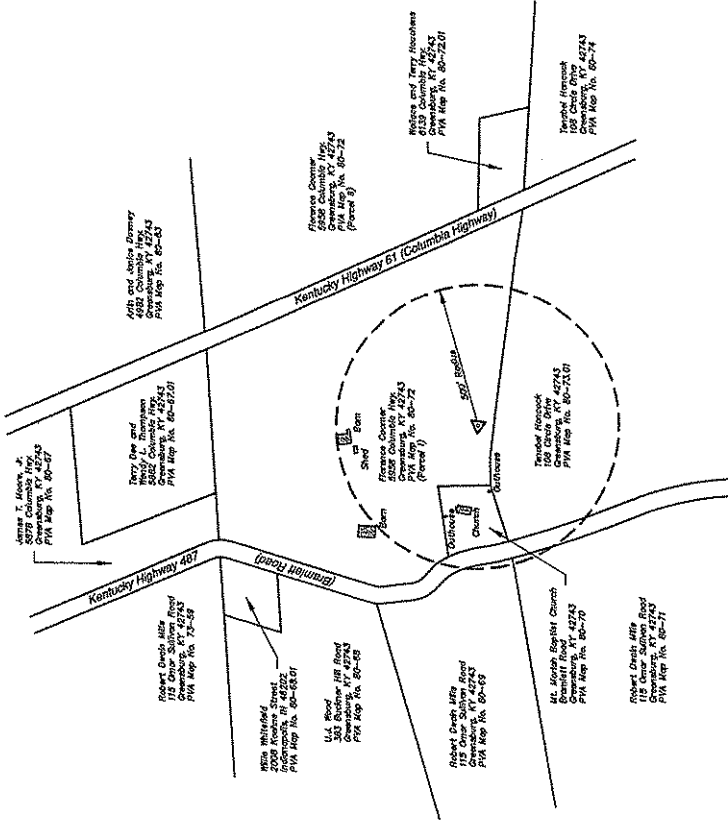
Site: Gresham

Green County, Kentucky

500-Foot Radius Map for Structures and Landowners



North



Note

The location of the structures shown are approximate, and they are based upon the best available aerial photographs on file in the office of the Property Tax Administrator of Green County, Kentucky.

Surveyor's Certification

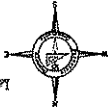
I hereby certify that the information shown is correct to the best of my knowledge, and it is in accordance with the records filed in the office of the Property Tax Administrator of Green County, Kentucky on December 14, 2006.

*Barbara L. Helms*  
Barbara L. Helms, P.E.

DEC 15 2006

STATE OF KENTUCKY  
 BARBARA L. HELMS  
 3386  
 LICENSURE  
 PROFESSIONAL  
 LAND SURVEYOR

Landmark Surveying Co., Inc.  
 15 N.E. 3rd Street  
 Wellington, Indiana 47301  
 (765) 251-0550  
 Fax: 765-251-0550  
 Project No. 06-10-029



500-Foot Radius Map  
 501 Bramlett Road  
 Greensburg, Kentucky 42743

Bluegrass Cellular  
 2902 Ring Road  
 Elizabethtown, Kentucky 42702

DATE	12-15-06
DRAWN BY	A. Helms
CHECKED BY	A. Helms
SHEET NO.	1
OF 1 SHEETS	
FILE NO.	gresham radius.dwg

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

**In the Matter of:**

**APPLICATION OF KENTUCKY RSA #4 CELLULAR  
GENERAL PARTNERSHIP FOR ISSUANCE OF A                   CASE NO. 2007-00028  
CERTIFICATE OF PUBLIC CONVENIENCE AND  
NECESSITY TO CONSTRUCT A CELL SITE (GRESHAM)  
IN RURAL SERVICE AREA #4 (GREEN) OF THE COMMONWEALTH  
OF KENTUCKY**

**AFFIDAVIT OF JOHN E. SELENT**

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

1. My name is John E. Selent and I am a member of the Kentucky Bar Association.

I am legal counsel to Kentucky RSA #4 Cellular General Partnership and am submitting this affidavit in conjunction with the above referenced matter.

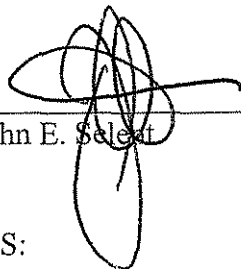
2. In order to demonstrate compliance with 807 KAR 5:063 §1(1)(l), Exhibit 1 identifies, with the exception of the individual identified in paragraph 4, the names of the residents/tenants and property owners within 500 feet of the proposed tower who have been: (i) notified by written notice of the proposed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

3. Attached as Exhibit 2 is a copy of the United States Certified Mail return receipts that demonstrate proof of service of the written notice of the proposed construction upon: (1) Robert Mills; (2) U. J. Wood; (3) Mount Moriah Baptist Church; (4) Tenabel Hancock; (5) Wallace and Terry Houchens; (6) Arlin and Janice Downey; (7) Terry and Wendy Thompson; (8) James Moore, Jr.; and (9) Florence Coomer. (See Exhibit 1.)

4. Affiant attempted to serve written notice of the proposed construction upon Willie Whitefield (see Exhibit 1) via United States Certified Mail pursuant to 807 KAR 5:063 § 1(l) and

(m). Service of the written notice of the proposed construction to Willie Whitefield was attempted via United States Certified Mail and was returned marked "Return to Sender - Attempted Not Known - Unable to Forward." Another copy of the written notice of the proposed construction was therefore sent to Willie Whitefield via United States First Class Mail. ( See Exhibit 1.)

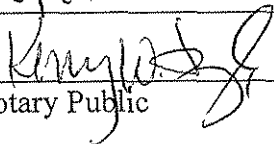
Further Affiant saith not.

  
\_\_\_\_\_  
John E. Selet  
)  
)SS:  
)

COMMONWEALTH OF KENTUCKY )  
COUNTY OF JEFFERSON )

SUBSCRIBED AND SWORN to before me this 15<sup>th</sup> day of February, 2007.

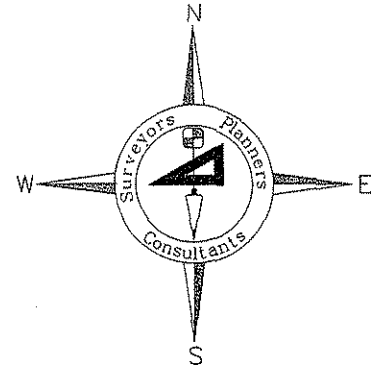
My commission expires: 11/20/07

  
\_\_\_\_\_  
Notary Public

# Landmark Surveying Co., Inc.

---

Darren L. Helms, R.L.S., PRESIDENT  
Dennis N. Helms, R.L.S., VICE PRESIDENT



15 N.E. 3rd Street  
Washington, Indiana 47501  
Phone: 812-257-0950  
Fax: 812-257-0953  
E-mail: landmark@dmrtc.net

## Landowner and Adjacent Landowner List

Bluegrass Cellular  
Gresham Site  
Green County, Kentucky

Robert Dwain Mills  
115 Omar Sullivan Road  
Greensburg, KY 42743

Willie Whitefield  
2008 Koehne Street  
Indianapolis, IN 46202

U.J. Wood  
383 Buckner Hill Road  
Greensburg, KY 42743

Mt. Moriah Baptist Church  
Bramlett Road  
Greensburg, KY 42743

Tenabel Hancock  
108 Circle Drive  
Greensburg, KY 42743

Wallace and Terry Houchens  
6139 Columbia Hwy.  
Greensburg, KY 42743

Arlin and Janice Downey  
4982 Columbia Hwy.  
Greensburg, KY 42743

Terry Dee and Wendy L. Thompson  
5882 Columbia Hwy.  
Greensburg, KY 42743

James T. Moore, Jr.  
5878 Columbia Hwy.  
Greensburg, KY 42743

Florence Coomer  
5958 Columbia Hwy.  
Greensburg, KY 42743



Darren L. Helms, Kentucky Professional Land Surveyor No. 3386

Dec. 15, 2006  
Date



January 24, 2007

Robert Dwain Mills  
115 Omar Sullivan Road  
Greensburg, Kentucky 42743

### Public Notice

Kentucky RSA #4 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

Bluegrass Cellular is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower to be located at 501 Bramlett Road, Greensburg, Kentucky, 42743. A map showing the location is attached.

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

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

Please refer to case number 2007-00028 in your correspondence.

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li><input checked="" type="checkbox"/> Print your name and address on the reverse so that we can return the card to you.</li> <li><input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> <i>Naomi Mills</i> <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <input type="checkbox"/> C. Date of Delivery  <i>Naomi Mills</i> <input type="checkbox"/> <i>1/25/07</i></p>
<p>1. Article Addressed to:</p> <p><i>Robert D. Mills  115 Omar Sullivan Road  Greensburg, KY 42743</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No  If YES, enter delivery address below:</p> <p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number  (Transfer from service label)</p>	<p><i>7005 1160 0000 2923 4358</i></p>

January 24, 2007

U. J. Wood  
383 Buckner Hill Road  
Greensburg, Kentucky 42743

## Public Notice

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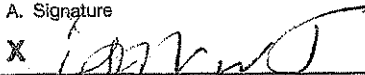
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1. Article Addressed to:  U. J. Wood 383 Buckner Hill Rd. Greensburg, KY 42743	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
2. Article Number (Transfer from service label)	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
7005 1160 0000 2923 4372	



January 24, 2007

Mount Moriah Baptist Church  
Bramlett Road  
Greensburg, Kentucky 42743

## Public Notice

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<p>1. Article Addressed to:  <i>Mount Moriah Baptist Church  Bramlett Road  Greensburg, KY  42743</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No  If YES, enter delivery address below:</p> <p>3. Service Type  <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number  (Transfer from service label)</p>	<p><b>7005 1160 0000 2923 4389</b></p>

January 24, 2007

Tenabel Hancock  
108 Circle Drive  
Greensburg, Kentucky 42743

## Public Notice

Kentucky RSA #4 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

Bluegrass Cellular is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower to be located at 501 Bramlett Road, Greensburg, Kentucky, 42743. A map showing the location is attached.

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Public Service Commission of Kentucky  
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Frankfort, Kentucky, 40602.

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<p>1. Article Addressed to: <i>Tenabel Hancock 108 Circle Drive Greensburg, KY 42743</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p>7005 1160 0000 2923 4396</p>

January 24, 2007

Wallace and Terry Houchens  
6139 Columbia Highway  
Greensburg, Kentucky 42743

## Public Notice

Kentucky RSA #4 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

Bluegrass Cellular is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower to be located at 501 Bramlett Road, Greensburg, Kentucky, 42743. A map showing the location is attached.

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P.O. Box 615  
Frankfort, Kentucky, 40602.

Please refer to case number 2007-00028 in your correspondence.

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1. Article Addressed to:  <i>Wallace &amp; Terry Houchens 6139 Columbia Highway Greensburg, KY 42743</i>	B. Received by, (Printed Name) <i>Terri Houchens</i> C. Date of Delivery <i>01/25/07</i> D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No If YES, enter delivery address below:
2. Article Number (Transfer from service label)	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes

7005 1160 0000 2923 4402

January 24, 2007

Arlin and Janice Downey  
4982 Columbia Highway  
Greensburg, Kentucky 42743

## Public Notice

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1. Article Addressed to:  <i>Arlin &amp; Janice Downey 4982 Columbia Highway Greensburg, KY 42743</i>	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
2. Article Number (Transfer from service label)	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
	7005 1160 0000 2923 4419

January 24, 2007

Terry Dee and Wendy L. Thompson  
5882 Columbia Highway  
Greensburg, Kentucky 42743

## Public Notice

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P.O. Box 615  
Frankfort, Kentucky, 40602.

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1. Article Addressed to: <i>Terry &amp; Wendy Thompson 5882 Columbia Highway Greensburg, KY 42743</i>	B. Received by (Printed Name) <i>W. Thompson</i>	C. Date of Delivery <i>1/25/07</i>
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	

Number

(from service label)

7005 1160 0000 2923 4426

911, February 2004

Domestic Return Receipt

102595-02-M-1540

January 24, 2007

James T. Moore, Jr.  
5878 Columbia Highway  
Greensburg, Kentucky 42743

## Public Notice

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

SENDER - COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><li><input checked="" type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li><li><input checked="" type="checkbox"/> Print your name and address on the reverse so that we can return the card to you.</li><li><input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee <i>James T. Moore, Jr.</i></p> <p>B. Received by (Printed Name) <input type="checkbox"/> Date of Delivery <i>James T. Moore</i> <i>1-29-2007</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p><i>James T. Moore, Jr. 5878 Columbia Highway Greensburg, KY 42743</i></p>	<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p>7005 1160 0000 2923 4433</p>

January 24, 2007

Florence Coomer  
5958 Columbia Highway  
Greensburg, Kentucky 42743

## Public Notice

Kentucky RSA #4 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

Bluegrass Cellular is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower to be located at 501 Bramlett Road, Greensburg, Kentucky, 42743. A map showing the location is attached.

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

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

Please refer to case number 2007-00028 in your correspondence.

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li> <li><input checked="" type="checkbox"/> Print your name and address on the reverse so that we can return the card to you.</li> <li><input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits.</li> </ul>	<p>A. Signature  <input checked="" type="checkbox"/> Florence Coomer <input type="checkbox"/> Agent  <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name)            Florence Coomer</p> <p>C. Date of Delivery            1/25/07</p>
<p>1. Article Addressed to:</p> <p>Florence Coomer            5958 Columbia Highway            Greensburg KY 42743</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes  <input checked="" type="checkbox"/> No            If YES, enter delivery address below:</p> <p>3. Service Type  <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail  <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise  <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number            (Transfer from service label)</p>	<p>7005 1160 0000 2523 4440</p>

January 24, 2007

Willie Whitefield  
2008 Koehne Street  
Indianapolis, Indiana 46202

## Public Notice

Kentucky RSA #4 Cellular General Partnership is a Kentucky general partnership that markets its services as Bluegrass Cellular. Bluegrass Cellular has been serving Central Kentucky with wireless communications services for over 15 years.

Bluegrass Cellular is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower to be located at 501 Bramlett Road, Greensburg, Kentucky, 42743. A map showing the location is attached.

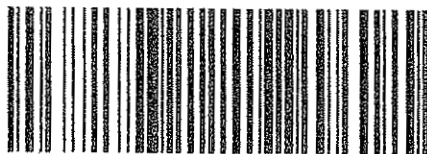
The Commission invites your comments regarding this proposed construction. Also, the Commission wants you to be aware of your right to intervene in this matter. Your comments and request for intervention should be addressed to:

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

Please refer to case number 2007-00028 in your correspondence.

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

PNC Plaza, 500 West Jefferson Street  
Indianapolis, KY 40202



7005 1160 0000 2923 4365



**Wismore & Shohl LLP**  
ATTORNEYS  
Indianapolis, IN 46202  
RETURN TO BENEFIT  
MAILABLE AS ADDRESSED

RETURN TO SENATOR Willie Whitefield  
2008 Koehne Street  
Indianapolis, Indiana 46202  
UNDELIVERABLE AS ADDRESSED  
INDIANAPOLIS, IN 46202



**Dinsmore & Shohl** LLP  
ATTORNEYS

Kerry W. Ingle  
502-540-2354  
kerry.ingle@dinslaw.com

January 24, 2007

*Via Certified Mail*

Green County Judge Executive  
Courthouse  
203 West Court Street  
Greensburg, Kentucky 42743

RE: Public Notice - Public Service Commission of Kentucky  
Case No. 2007-00028

Kentucky RSA #4 Cellular General Partnership 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) #4 in Green County. The facility will include a 240 ft. tower and an equipment shelter to be located at 501 Bramlett Road, Greensburg, Kentucky, 42743. 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 2007-00028 in your correspondence.

Very truly yours,

DINSMORE & SHOHL LLP

  
Kerry W. Ingle  
Paralegal

enclosure

kwi

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Green County Judge Executive  
Court House  
203 West Court Street  
Greensburg, KY 42743

2. Article Number

(Transfer from service label)

7005 1160 0000 2923 4464

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature

*Lindsay Landis*

- Agent
- Addressee

B. Received by (Printed Name)

*Lindsay Landis*

C. Date of Delivery

*1/25/27*

D. Is delivery address different from item 1?

Yes

If YES, enter delivery address below:

No

3. Service Type

- Certified Mail
- Express Mail
- Registered
- Return Receipt for Merchandise
- Insured Mail
- C.O.D.

4. Restricted Delivery? (Extra Fee)

Yes

# **PUBLIC NOTICE**

Kentucky RSA #4 Cellular  
General Partnership proposes  
to construct a cellular  
communications

# **TOWER**

on this site. If you have any  
questions please contact:

Technical Director  
General Partnership  
P.O. Box 1807  
2500 Long Dale  
Hartsville, KY 40341

Contractor/Builder  
The Public Service Company  
of Kentucky  
2112 West Belmont  
P.O. Box 615  
Hartsville, KY 40341

Please refer to P.S.C.

**Case #2007-00028**

in your correspondence.

# **PUBLIC NOTICE**

Kentucky RSA #4 Cellular  
General Partnership proposes  
to construct a cellular  
communications

# **TOWER**

near this site. If you have any  
questions please contact:

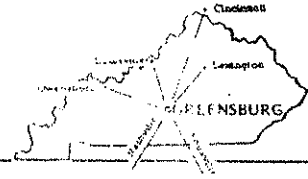
Michael A. Smith  
General Partner  
RSA #4  
1000  
1000  
1000

Robert J. Smith  
General Partner  
RSA #4  
1000  
1000  
1000

Please refer to P.S.C.  
Case #2007-00028  
in your correspondence.

Greensburg  
**Record-Herald**

P.O. Box 130 Greensburg, KY 42743 270/932-4381 or 932-4441 Walt Gorin, Publisher



**AFFIDAVIT OF PUBLICATION**

Before me, a Notary Public, personally appeared  
Anne Gorin  
who certifies that any and all advertising material  
for Sensmore + Shobe appeared in the  
Greensburg Record-Herald on the  
date(s): 1-31-2007 + 2-7-2007

Anne Gorin  
Signature

Office Manager  
Title

State of Kentucky  
County of Green

Sworn to and subscribed before me on the 7<sup>th</sup> day of  
February, 2007.

[Signature]  
Notary Public  
11-8-09  
My Commission Expires

## Games through Feb. 3

Team	Overall Record	District Record	Avg. Off.	Avg. Def.
<b>17th District</b>				
Central Hardin	21-1	6-0	72	56
Elizabethtown	12-9	4-1	69	62
John Hardin	12-7	3-4	57	50
North Hardin	9-16	2-6	56	58
Fort Knox	11-8	1-5	59	53
<b>18th District</b>				
Hart County	14-8	6-0	65	61
Caverna	6-14	4-2	59	65
Green County	7-12	1-4	53	60
Larue County	4-17	0-5	51	62
<b>19th District</b>				
Bethlehem	13-7	4-1	59	54
Nelson County	10-10	4-1	54	59
Bardstown	15-6	2-2	63	56
Washington Co.	5-17	0-6	52	60
<b>20th District</b>				
Campbellsville	13-7	4-1	60	58
Adair County	12-9	3-2	55	48
Taylor County	13-8	3-2	62	62
Marion County	4-16	0-5	52	60

## NOTICE

Kentucky RSA #4 Cellular General Partnership is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service area #4 of the Commonwealth of Kentucky (Gresham Cell Site). The facility is a 240 foot tower and an equipment shelter to be located at 501 Bramlett Road, Greensburg, Kentucky, 42743. 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. 2007-00028 in your correspondence.

1-31-2t



# COUNTRY

Real Estate,

Need Repair?



Call  
Green Co. native  
**Terry Judd**  
270-405-4087

Terry is the manager of Hardin County's largest HiTech Collision and Refinish Center. He is fully I-CAR certified and has 25 years of autobody experience.

### FREE LOANER CARS

Drive our loaner car anywhere while we repair yours.

Call 763-6158 or

Toll-Free 1-800-999-7591

Terry will come to your location for a repair estimate, if your vehicle is not drivable.

•Import and Domestic Cars & Trucks Repaired by I-CAR Certified Technicians

•Authorized Warranty Repair Facility for: - Chrysler, Dodge, Toyota, Pontiac, Mitsubishi, Hyundai, Jeep, Ford

•Separate CLEAN Paint Shop with the

Latest Garmat Paint Equipment

•"Chiefs" Most Accurate Laser Measuring & Frame Repair System Produces Perfect Repairs

•PPG Perfect Color Match System

•Lifetime Warranty of Repairs

Serving Central Kentuckians for over 50 years.

# SWOPE COLLISION

### NEW LISTING

242 HIDDEN V

4 bedrooms, 3-bath brick ranch, room, formal dining room, den with patio doors that open out to a d garage, full basement, the property \$242,000.

131 VALLEY DR

Construction has begun on a 3 bedroom features a large family room, large utility room and an attached 2-car porch, custom cabinetry and walk-purchase. Purchase now and watch home. \$105,000.

133 VALLEY DR

Coming soon! The builders are already is a split and open floor plan and a covered porch, large utility room, garage more. Buy now and pick out floor coverings, etc. \$1

810 BRUSH CREEK

Nice older home sitting on 4 acres. Master bedroom, 1 bath, metal roof, new water also a 4 stall horse barn with tack room garage with electric and water, very trees. Price Reduced - \$92,000.

Lots For

**The Coleman Institute, LLC**  
 Advanced Center for Addiction Treatment  
 1-877-KYDETOX  
 www.kentuckydetox.com

**Get Clean and Stay Clean Off All Opiates**

- Specializing in outpatient detoxification
- Offering a safe, effective & affordable opiate detox
- Providing Naltexone Implants

**INDIVIDUALIZED TREATMENT INCLUDES:**  
 Confidential screening • Individualized detox programs •  
 Coordination of aftercare treatment • Aftercare management •  
 Family involvement • Medical care • Travel arrangements

*Welcome our newest location in Hazard, Kentucky*

Call toll free at  
**1-877-KYDETOX**  
 (1-877-593-3869)

**THE TEN  
 COMMANDMENTS**

"Thou shalt have no other gods before me.  
 Thou shalt not make unto thee any graven image.  
 Thou shalt not take the name of the Lord thy God in vain.  
 Remember the Sabbath day to keep it holy.  
 Honor thy father and thy mother.  
 Thou shalt not kill.  
 Thou shalt not commit adultery.  
 Thou shalt not steal.  
 Thou shalt not bear false witness against thy neighbor.  
 Thou shalt not covet.  
 (Exodus 20:3-17)

**PETTIT LAND SURVEYING, LLC**

112 Gettysburg Drive  
 Hodgenville, KY 42748

Johnny Pettit, P.L.S. Phone/Fax (270) 358-4328

**NOTICE**

Kentucky RSA #4 Cellular General Partnership is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service area #4 of the Commonwealth of Kentucky (Gresham Cell Site). The facility is a 240 foot tower and an equipment shelter to be located at 501 Bramlett Road, Greensburg, Kentucky, 42743. 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. 2007-00028 in your correspondence. 1-31-2t

Member of Commerce membership dues.

**Auction Co.**

1000 S. Main Road • Greensburg  
 (270) 932-3306 • Residence (270) 932-5004

Reva Nell Tucker, Broker/Associate (270) 932-4874  
 Paula Foster, Sales Associate (270) 465-2673, Cell (270) 849-4483 • Paula Foster, Sales Associate (270) 789-3340  
 Sales Associate (270) 789-7600 • Mark Cundiff, Sales Associate Cell (270) 405-3312  
 Sales Associate (270) 572-3323 • Allyson Cave, Sales Associate (270) 469-3752  
 Sales Associate (270) 537-4411

www.greensburgky.net • Email: dilerealty@greensburgky.net

**REAL ESTATE SALES**

Call today to list your property or to set your auction date. Give us a call - we will visit you.

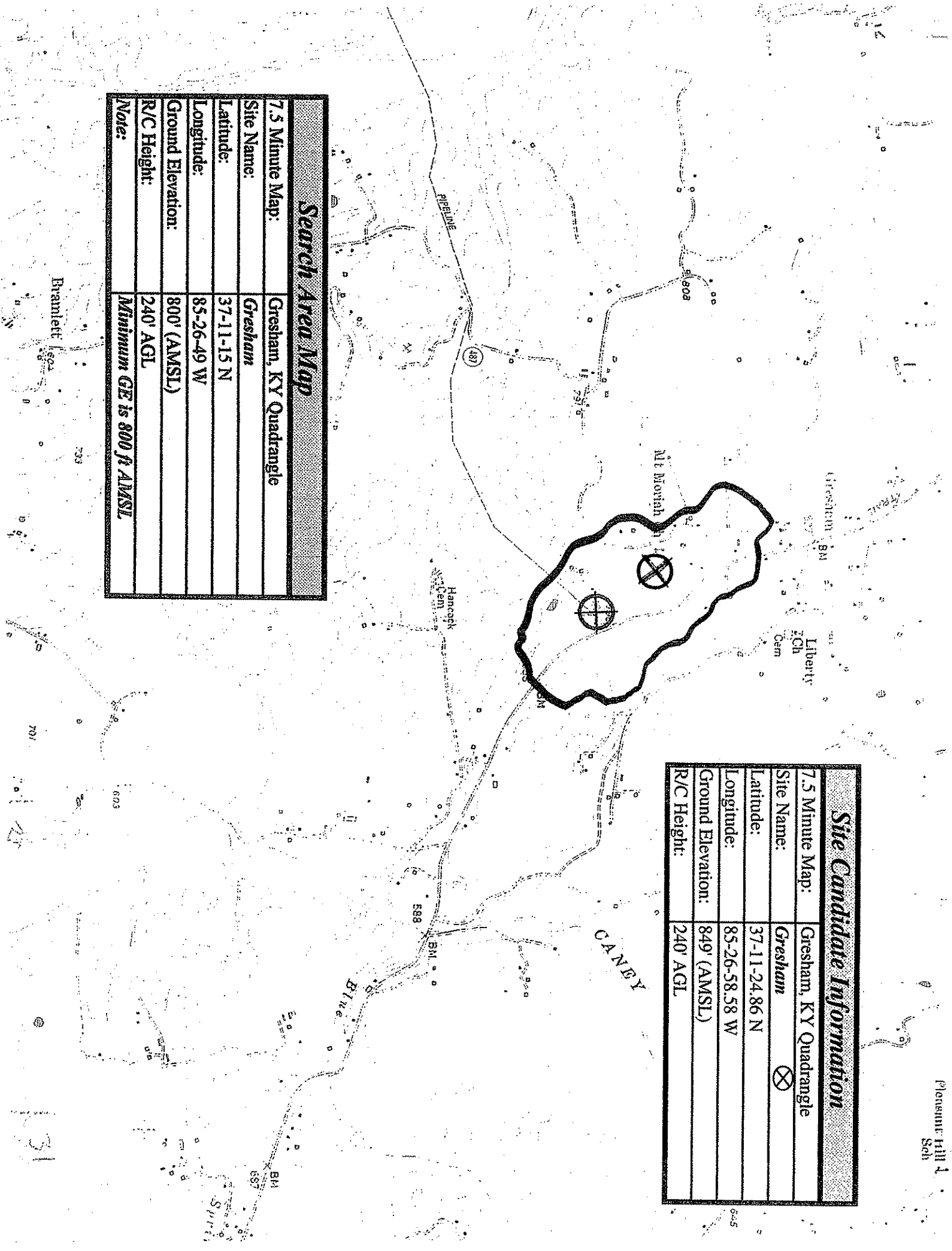
we have confidential buyers list.

**220 Jerry Bishop Rd.**  
 Handyman Special! This 3-bedroom and 1-bath home situated on 5 +/- acre lot. Home features appliance package and a detached garage. For viewing call Buddy at (270) 572-3323. Priced at \$35,000.

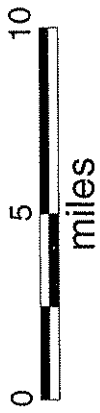
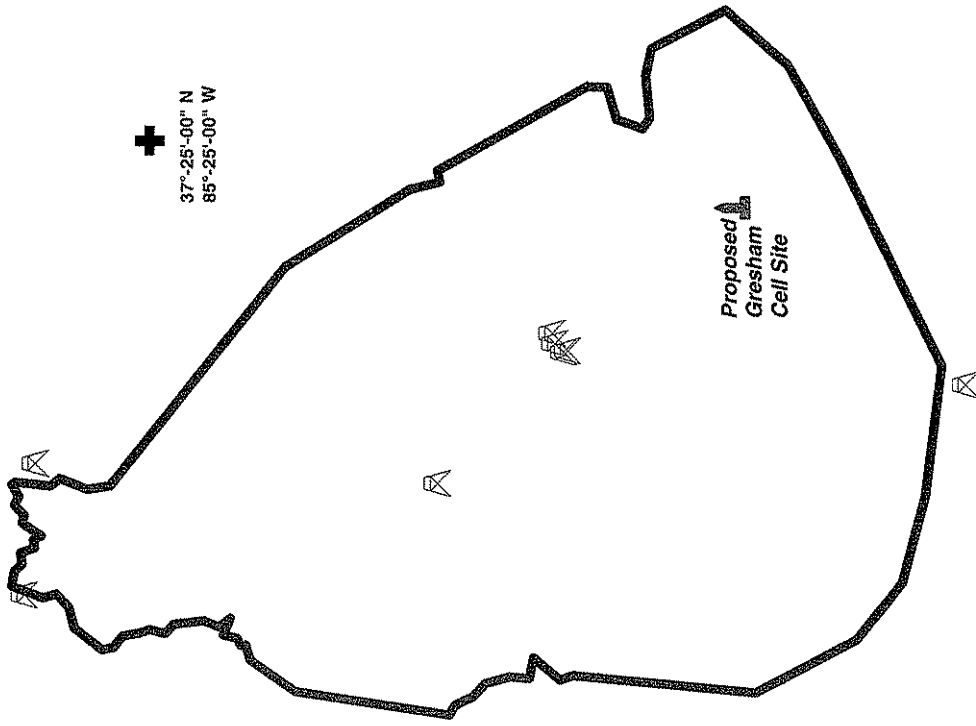
that are in use all having oak mantels but on which is walnut, pella tilt with enclosed blind windows, antique light fixtures and brass doorknobs. Additional acres are available. Owner financing possible. Call Brittany (270) 299-5009.





<b>Site Candidate Information</b>	
7.5 Minute Map:	Gresham, KY Quadrangle
Site Name:	Gresham ⊗
Latitude:	37-11-24.86 N
Longitude:	85-26-58.58 W
Ground Elevation:	849' (AMSL)
R/C Height:	240' AGL

<b>Search Area Map</b>	
7.5 Minute Map:	Gresham, KY Quadrangle
Site Name:	Gresham
Latitude:	37-11-15 N
Longitude:	85-26-49 W
Ground Elevation:	800' (AMSL)
R/C Height:	240' AGL
Note:	Minimum GE is 800 ft AMSL







	Green County Boundary
	Wireless Tower Locations Registered with the FCC
	Proposed Tower Location
	Tick Marks

Prepared By: LINGS Engineering 01/30/2007

37°-08'-00" N  
85°-45'-00" W

37°-25'-00" N  
85°-25'-00" W

Proposed  
Gresham  
Cell Site

**Information on Constructed Towers Registered with the FCC  
in Green County and 1/2 mile Area Outside of the County Boundary**

FCC Tower Reg. No.	North Latitude	West Longitude	City, State	Tower Owner
1002955	37-15-22	85-31-12	Greensburg, KY	Global Tower, LLC
1042224	37-28-00	85-38-19	Hodgenville, KY	Global Tower, LLC
1043975	37-15-38	85-30-39	Greensburg, KY	Access Cable Television, Inc.
1044278	37-18-20	85-35-03	Gabe, KY	TENNESSEE GAS PIPELINE COMPANY
1044502	37-15-16.2	85-31-9.9	Greensburg, KY	EAST KENTUCKY POWER COOPERATIVE, INC
1044821	37-06-00	85-32-10	Columbia, KY	KENTUCKY, COMMONWEALTH OF DBA = KENTUCKY EMERGENCY WARNING SYSTEM KEWS
1063300	37-15-34	85-30-57	Greensburg, KY	COMMONWELATH BROADCASTING COPPORATION DBA = CBC
1227279	37-27-43.2	85-34-27.8	Gotton, KY	Kentucky RSA 4 Cellular General Partnership c/b/a Bluegrass Cellular