

COMMONWEALTH OF KENTUCKY
BEFORE THE PUBLIC SERVICE COMMISSION

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MAR 01 2007

PUBLIC SERVICE
COMMISSION

In the Matter of:

**APPLICATION OF KENTUCKY RSA #3
CELLULAR GENERAL PARTNERSHIP FOR
ISSUANCE OF A CERTIFICATE OF PUBLIC
CONVENIENCE AND NECESSITY TO CONSTRUCT
A CELL SITE (HANGING ROCK) IN RURAL
SERVICE AREA #3 (GRAYSON) OF THE
COMMONWEALTH OF KENTUCKY**

CASE NO. ~~2006~~-00055

2007-

APPLICATION FOR A CERTIFICATE
OF PUBLIC CONVENIENCE AND NECESSITY (HANGING ROCK)

Kentucky RSA #3 Cellular General Partnership (“Kentucky RSA #3”), 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 Hanging Rock cell site in and for rural service area (“RSA”) #3 of the Commonwealth of Kentucky, namely the counties of Allen, Breckinridge, Butler, Edmonson, Grayson, Hancock, Logan, McLean, Meade, Muhlenberg, Ohio, Simpson, Todd and Warren, Kentucky.

1. As required by 807 KAR 5:001 Sections 8(1) and (3), and 807 KAR 5:063, Kentucky RSA #3 states that it is a Kentucky general partnership whose full name and post office address are: Kentucky RSA #3 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 attached as 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 attaching 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 attached as 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 attached as Exhibit “D”.

6. Pursuant to 807 KAR §1(1)(g), experienced personnel will manage and operate the Hanging Rock 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 # 3 , of which system the Hanging Rock cell site will be a part. Bluegrass Cellular Inc. provides management services to Kentucky RSA #3 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), Hemphill Corporation 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 attached as 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 attached as 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 attached as 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 attached as 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 or her 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 or her 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 attached as Exhibit “F”.

15. Pursuant to 807 KAR 5:063 § 1 (1)(n), applicant’s legal counsel hereby affirms that the Grayson 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 Grayson 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 #3 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 #3 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 is attached as Exhibit "I".

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

21. Pursuant to 807 KAR 5:063 § 1(1)(s), Kentucky RSA #3 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 #3 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 attached as 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 attached as Exhibit "K".

24. No reasonably available telecommunications tower, or other suitable structure capable of supporting the cellular facilities of Kentucky RSA #3 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
Jane W. Prizant
DINSMORE & SHOHL LLP
1400 PNC Plaza
500 West Jefferson Street
Louisville, KY 40202
(502) 540-2300
(502) 585-2207 (facsimile)
john.selent@dinslaw.com
jane.prizant@dinslaw.com

WHEREFORE, Kentucky RSA #3 Cellular General Partnership requests the Commission to enter an order:

1. Granting a certificate of public convenience and necessity to construct the Hanging Rock cell site; and
2. Granting all other relief as appropriate.

Respectfully submitted,



John E. Selent
Jane W. Prizant
DINSMORE & SHOHL LLP
1400 PNC Plaza
500 West Jefferson Street
Louisville, KY 40202
(502) 540-2300
(502) 585-2207 (facsimile)
john.selent@dinslaw.com
jane.prizant@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 26, 2007

Telephone

(703) 584-8668

Via Federal Express

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

Dear Mr. Houlihan:

Enclosed please find two completed TC 56-50 forms, Application for Permit to Construct or Alter a Structure, for a new tower (Hanging Rock) near Leitchfield, 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 and a non-reduced 7-1/2' U.S. Geological Survey map indicating the exact location of the site.

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

9. Latitude: 37 ° 32 ' 44 " 12 "

10. Longitude: 86 ° 18 ' 58 " 38 "

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

12. Nearest Kentucky City Leitchfield County: Grayson

13. Nearest Kentucky public use or Military airport:
Grayson County Airport

14. Distance from #13 to Structure: 10.5 miles

15. Direction from #13 to Structure: NNW

16. Site Elevation (AMSL): 658 Feet

17. Total Structure Height (AGL): 255 Feet

18. Overall Height (#16 + #17) (AMSL): 913 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:
2408 Hanging Rock Road
Leitchfield, KY 42754

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 3/20/07 End 3/25/07

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-377-OE

21. Description of Proposal:

Structure: Tower including top-mounted antennas for overall height of 255' AGL.
Max. ERP: 250 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 01/26/2007

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 1/26/07
Printed Name Signature Date

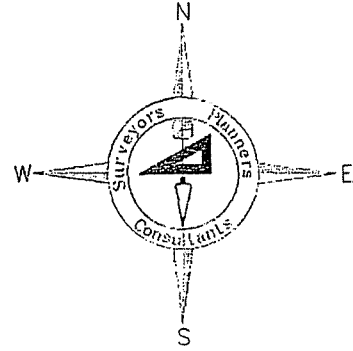
PENALTIES: Persons failing to comply with Kentucky Revised Statutes (KRS 183.861 through 183.990) and Kentucky Administrative Regulations (602 KAR 050: Series) are liable for fines and/or imprisonment as set forth in KRS 183.990(3). Non-compliance with Federal Aviation Administration Regulations may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

January 23, 2007

Designation: Hanging Rock
Site ID No.: Not Available
Tower Type: Proposed Self-Support Tower
Location: 2408 Hanging Rock Road, Leitchfield, KY 42754

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

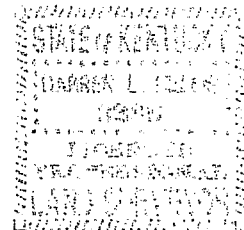
Latitude:	37 degrees 32 minutes 44.12 seconds North	(NAD 1983)
Longitude:	86 degrees 18 minutes 58.38 seconds West	(NAD 1983)
Ground Elevation:	658.2 feet or 200.6 meters	(NAVD 1988)
Proposed Structure Height:	240 feet or 73.2 meters	(above ground level)
Proposed Overall Structure Height:	not available	(above ground level)

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

The information shown above is based upon field observations made on January 5, 2007 using the National Geodetic Survey monument "BUCKLER" 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-000058395-07

Sponsor: Bluegrass Cellular, Inc.

Details for Case : Hanging Rock

Show Project Summary

Case Status

ASN: 2007-ASO-377-OE

Date Accepted: 01/26/2007

Status: Accepted

Date Determined:

Letters: None

Construction / Alteration Information

Notice Of: Construction

Duration: Permanent

if Temporary : Months: Days:

Work Schedule - Start: 03/20/2007

Work Schedule - End: 03/25/2007

State Filing: Filed with State

Structure Summary

Structure Name: Hanging Rock

Structure Type: Antenna Tower

Other :

FCC Number:

Prior ASN:

Structure Details

Latitude: 37° 32' 44.12" N

Longitude: 86° 18' 58.38" W

Horizontal Datum: NAD83

Site Elevation (SE): 658 (nearest foot)

Structure Height (AGL): 255 (nearest foot)

Marking/Lighting: Dual-red and medium intensity

Other :

Nearest City: Leitchfield

Nearest State: Kentucky

Traverseway: No Traverseway

Description of Location: Site is located at:
2408 Hanging Rock Road
Leitchfield, KY 42754

Description of Proposal: Proposed tower with top-mounted antennas for 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

HEMPHILL CORPORATION

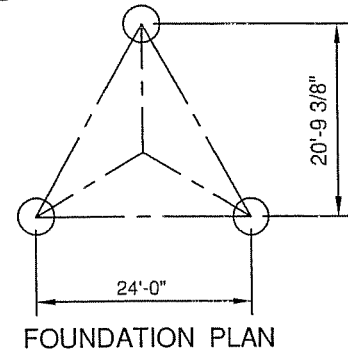
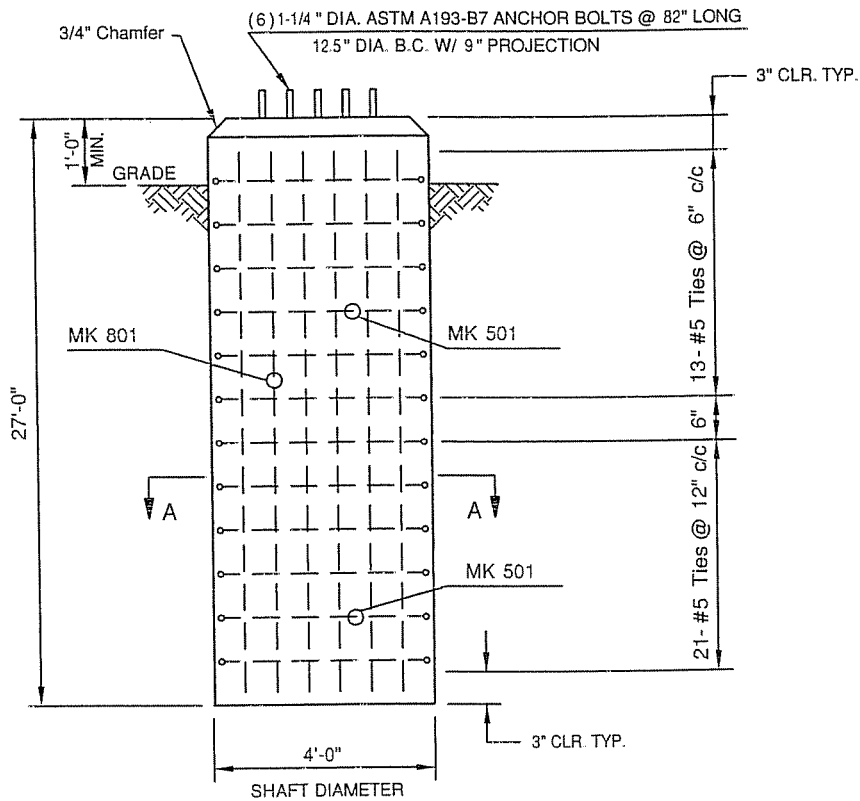
3515 DAWSON ROAD

TULSA, OK 74115

OFFICE: 918-834-2200

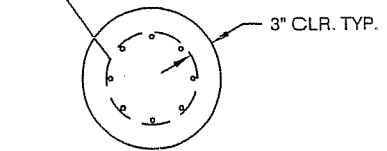
FAX: 918-836-7109

DRILLED PIER FOUNDATION-STRAIGHT SHAFT

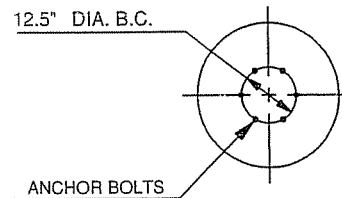


FOUNDATION PLAN

MK 501 - #5 Ties
42" Dia. - 27" Lap



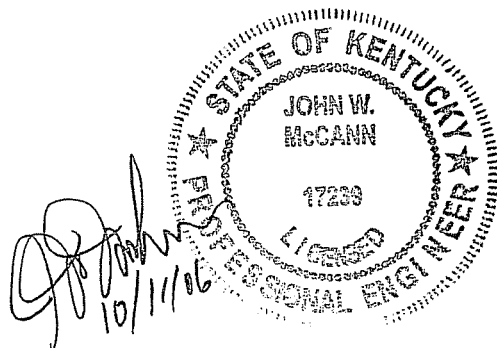
SECTION A-A



ANCHOR BOLT LAYOUT

NOTES:

1. Tower location and orientation to be provided by Client.
2. Tower footprint plan and dimensions to be provided by Hemphill Corporation
3. Anchor bolts and templates to be provided by Hemphill Corporation.
4. Design based on soil parameters as written in geotechnical report by Terracon: "Geotechnical Engineering Report", Project No. 57067407G, dated 9/1/06.
5. Construction tolerances for foundations and anchors shall be per Hemphill Drawing 11444a-2 of 2.



MATERIAL SPECIFICATIONS		REBAR SCHEDULE				DESIGN LOADS *		
CONCRETE: ACI A318-95 (Fc=3 ksi) REBAR: ASTM A615 GR. 60 TIES: ASTM A615 GR. 60		MARK	DIAMETER	LENGTH	QUANTITY	Download:	273.0 Kips	
		501	0.625"	16'-5"	34x3=102	Uplift:	234.0 Kips	
		801	1.000"	26'-6"	20x3=60	Shear (Total):	48.0 Kips	
NUMBER REQUIRED: 3		CONCRETE: 12.57 cu.yd.(net) x 3 = 37.7 cu.yd.(net).					* Per Hemphill Corporation Dwg. B-11444-1 dated 10/4/06	
BY: JMS	DATE: 10/4/06	CLIENT: KENTUCKY RSA #3 CELLULAR						
JOB NO: 11444	DWG. NO: 11444a-1 of 2	PROJECT: 240 FT SELF SUPPORT TOWER						
		SITE: HANGING ROCK, KY						

HEMPHILL CORPORATION

3515 DAWSON ROAD

TULSA, OK 74115

OFFICE: 918-834-2200

FAX: 918-836-7109

TOWER FOUNDATIONS AND ANCHORS

STANDARD SPECIFICATION

1. Foundation designs are in accordance with ANSI/EIA-222-G, Structural Standards for Steel Antenna Towers and Antenna Supporting Structures*.
2. Work shall comply with local codes, safety regulations, and unless noted otherwise, the most recent edition of ACI 318, "Building Code Requirements for Structural Concrete". Procedures for the protection of excavations, existing construction, and utilities shall be established prior to foundation construction.
3. Proportions of concrete materials shall be suitable for the placement method utilized and shall yield durable concrete. The durability of concrete shall conform to the requirements of ACI 318 for the conditions expected at the site. Concrete shall develop a minimum compressive strength of 3000 psi within 28 days of placement.
4. The maximum size of aggregate shall not exceed the lesser of 1-inch, one-third the clear distance behind or between reinforcing, or the size suitable for the placement method utilized.
5. Reinforcing steel shall be deformed, shall conform to ASTM A615, and shall be Grade 60 unless noted otherwise. Splices in reinforcement shall comply with the requirements of ACI 318.
6. Reinforcing cages shall be braced to retain dimensions during handling and concrete placement. Welding on steel reinforcement and embedments is strictly prohibited.
7. The minimum concrete cover for reinforcement shall be 3-inches unless noted otherwise. Approved spacers shall be less than 3" in length. Spacers shall be attached intermittently throughout the entire length of vertical reinforcing cages to assure cage concentricity within excavations.
8. Backfill materials shall be compacted to a minimum unit weight of 100 pcf or the unit weight utilized for the design.
9. For self-supporting towers, the foundation at the highest elevation shall be formed to 12-inches above grade. The tops of the foundations for the other two legs shall be constructed level with the first one.
10. Foundation construction shall be supervised by personnel knowledgeable and experienced with the foundation type. Construction shall conform to generally accepted construction practices.
11. For foundation and anchor detail requirements, refer to the tower manufacturer's drawing.
12. Excavations shall be cleared of loose materials and debris prior to concrete placement. Sides of excavations shall be rough and shall be free of loose materials.
13. Concrete shall be placed in a manner which precludes separation of concrete materials. Free-fall concrete is permitted provided the fall is vertical and does not hit the sides of the excavation, the formwork, reinforcing steel, form ties, cage bracing or other obstructions. Concrete fall through water is strictly prohibited unless the concrete is pumped or tremmied.
14. Concrete shall be placed against undisturbed soil where possible. Forms, when required, shall be removed prior to backfilling.
15. Construction joints at the base of pedestals for pad-and-pedestal foundations shall be intentionally roughened to a full amplitude depth of 1/4-inch. No other construction joints shall be permitted.
16. Outside the limits of the anchor bolt area, the top of the foundation shall be sloped to drain and shall have a floated finish. The area within the anchor bolt limits shall be level and shall have a scratched finish. Exposed edges of concrete foundations shall be finished with a 3/4" chamfer.
17. Drilled piers shall be constructed in accordance with ACI 336.3R, "Standard Specification for the Construction of End Bearing Drilled Piers".
18. Concrete used in the construction of dry or dewatered piers (less than 2" of water in bottom of pier hole) shall be at least a 6-sack per cubic yard mix and shall be placed at a slump of 5".
19. The discharge for concrete placed pumped or tremmied through water shall be maintained at least 5" below the concrete surface. Concrete placement shall be continuous till complete. Concrete placed by this method shall be a 7-sack per cubic yard mix and shall be placed at a slump of 7" to 9".
20. For the lessor of 25 cubic yards or one day's placement, a minimum of one set of 4 concrete cylinders shall be cast in accordance with ASTM C-31 and ASTM C-39.
21. Tower bases leveled using the double-nut system shall be grouted using Master Builders Embraco 636 Grout or equivalent.

TOLERANCES - ALL TOWERS

22. Concrete Dimensions: +6", -1"
23. Depth from Grade to Bottom of Concrete: +3", -0"
24. Drilled Pier Out-of-Plumb: 1"
25. Placement of Reinforcing Steel: Per ACI 301
26. Projection of Embedments: ±8 1/8"
27. Vertical Embedment Out-of-Plumb: 1/2"

TOLERANCES - GUYED TOWERS

28. Guy Anchor Radius: ±3% of Tower Height
29. Anchor Elev. Relative to Tower Base: ±3% of Tower Height
30. Anchor Rod Alignment Relative to Guy Radius: ±0.1"
31. Anchor Rod Slope: ±1"

TOLERANCES - SELF-SUPPORTING TOWERS

32. Anchor Bolt Spacing: ±1/16"
33. Bolt Circle Diameter: ±1/16"
34. Bolt Circle Orientation: ±1/4"
35. Maximum Difference in Elevation Between Any Two Tower Foundations: ±1/2"
36. Center-to-Center Dimension of Anchor Bolt Circles: ±1/16" or 1/16" per 20 ft. of Base Spread
37. Distance From Center of Foundation to Center of Bolt Circle: 1/24 of Foundation Width to a Maximum of 2"



BY: JMS

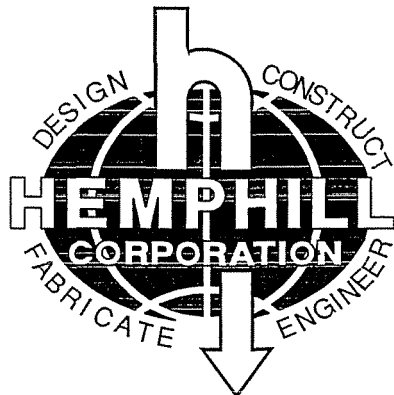
DATE: 10/4/06

CLIENT: KENTUCKY RSA #3 CELLULAR
PROJECT: 240 FOOT SELF SUPPORT TOWER

SCALE: NTS

DWG. 11444a-2 of 2
NO:

SITE: HANGING ROCK, KY
SITE NO:



TULSA
3515 Dawson Road
Tulsa, OK 74115
Phone: (918) 834-2200
Fax: (918) 836-7109

**GEOTECHNICAL SUMMARY REPORT
SITE LOCATION: HANGING ROCK, KY
HEMPHILL PROJECT NO. 11444**

TOWER TYPE : LATTICED (SELF SUPPORT)

TOWER HEIGHT ABOVE GROUND LEVEL : 240'

MAXIMUM BASE SPREAD (CENTER TO CENTER) : 24'-0"

SOIL DESCRIPTION : SEE GEOTECH REPORT

SURFACE WATER : N/A

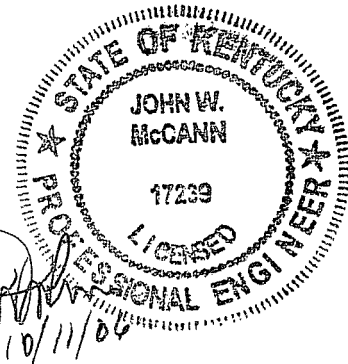
DEPTH TO GROUND WATER : N/A

RECOMMENDED TYPE OF FOUNDATION : DRILLED PIERS

**MINIMUM FOUNDATION BEARING DEPTH : 26' BELOW GROUND
LEVEL**

ESTIMATED DESIGN PARAMETERS (MEAN):

- 1. UNIT WEIGHT (MOIST) γ : 140 pcf (avg.)**
- 2. PHI ANGLE M : 0°**
- 3. COHESION, c : 3.0 ksf (avg.)**
- 4. NET ALLOWABLE BEARING PRESSURE : 10.0 ksf**



GEOTECHNICAL ENGINEERING REPORT

**HANGING ROCK TELECOMMUNICATION TOWER
2414 HANGING ROCK ROAD
LEITCHFIELD, KENTUCKY**

**TERRACON PROJECT NO. 57067407G
September 1, 2006**

Prepared For:

**BLUEGRASS CELLULAR
Elizabethtown, Kentucky**

Prepared by:

Terracon

Louisville, Kentucky

Terracon

September 1, 2006

Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42702

Attention: Mr. Doug Updegraff

**Re: Geotechnical Engineering Report
Hanging Rock Telecommunication Tower
2414 Hanging Rock Road
Leitchfield, Kentucky
Terracon Project No. 57067407G**

Terracon
Consulting Engineers & Scientists

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

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 the 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.

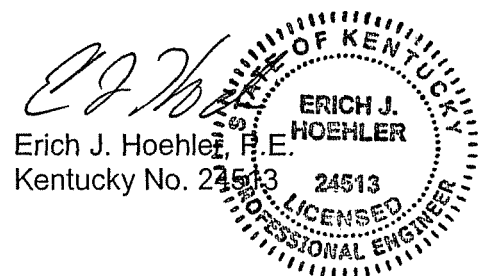
Sincerely,
Terracon



Timothy M. Hitchcock, E.I.T.
Staff Engineer



Timothy G. LaGrow, P.E.
Regional Manager



n:\projects\2006\towers\57067407HangingRock\geo57067407G.doc

Attachments: Geotechnical Engineering Report

Copies: (4) Addressee

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GEOTECHNICAL ENGINEERING REPORT

HANGING ROCK TELECOMMUNICATION TOWER 2414 HANGING ROCK ROAD LEITCHFIELD, KENTUCKY TERRACON PROJECT NO. 57067407G September 1, 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 the foundations and earthwork for the proposed tower. One boring extending to a depth of about 31½ 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. The subject site consists of a parcel of agricultural land located on at 2414 Hanging Rock Road in Leitchfield, Kentucky. The site is bound by Hanging Rock Church to the west; Hanging Rock Road to the south; a pasture field and Kentucky Highway 259 to the east and a residence and barns to the north. Based on the provided drawings the approximate elevation at the site is EL 650. We have assumed that less than 3 feet of cut and/or fill will be required to reach the planned site grades.

3.0 EXPLORATION PROCEDURES

3.1 Field Exploration

The subsurface exploration consisted of drilling and sampling one boring at the site to a depth of about 31½ feet below existing grade. The boring was advanced at the center of the tower, staked by the project surveyor. The ground surface elevation was reportedly about 650 feet at the time of the exploration. 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 an ATV-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 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 20 feet below the existing ground surface. The boring was extended into the refusal materials using a diamond bit attached to the outer barrel of a double core barrel. The inner barrel collected the cored material as the outer barrel was rotated at high speeds to cut the rock. The barrel was retrieved to the surface upon completion of each drill run. Once the core samples were retrieved, they were placed in a box and logged. The rock was later classified by an engineer and the "percent recovery" and rock quality designation (RQD) 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 test 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 designation (RQD) were calculated for these samples and are noted at their depths of occurrence on the boring log.

4.0 EXPLORATORY FINDINGS

4.1 Subsurface Conditions

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

Underlying approximately 5 inches of topsoil, our boring encountered lean clay (CL) to a depth of about 8½ feet below existing grade. Weathered shale was encountered below the lean clay to an auger refusal depth of about 20 feet below existing grade. The lean clay exhibited a stiff to very stiff consistency based on SPT N-values ranging from 13 to 20 blows per foot (bpf). SPT N-values in excess of 50 bpf were encountered within the weathered shale from a depth of about 8½ feet below existing grade to the auger refusal depth of about 20 feet below existing grade.

Below a depth of about 20 feet, rock coring techniques were used to advance the borehole. The core samples recovered consisted of completely weathered to weathered, dark to medium gray, very closely to closely jointed, soft to moderately hard shale to a depth of about 30 feet below existing grade. Underlying the shale was slightly weathered, light gray, hard, closely jointed limestone to a depth of about 31½ feet below existing grade. The

bedrock at the site appears to be relatively continuous below a depth of about 25 feet based on core recoveries of 95 percent for the shale and 100 percent for the limestone. A core recovery of 40 percent was obtained for the first core run from 20 to 25 feet. The quality of the rock is rated at very poor to good based on RQD values of 10, 44 and 80 percent in the second core run. Considering the height of the tower and the quality of the bedrock below 25 feet, coring operations were terminated at a depth of 31½ feet below grade.

4.2 Site Geology

A review of the Geologic Map of Madrid Quadrangle published by the United States Geological Survey (USGS), indicates that the site is underlain by the Haney Limestone Member of the Mississippian age. This member is comprised of light- to medium-light-gray limestone and light-gray to light-olive-gray shale and is typically between 20 and 60 feet thick.

4.3 Groundwater Conditions

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

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

5.0 ENGINEERING RECOMMENDATIONS

Based on the encountered subsurface conditions, the tower can be constructed on a drilled pier foundation or a mat foundation. The lightly loaded equipment building can be supported on shallow spread footings. Shallow foundation and drilled pier recommendations are presented in the following paragraphs.

5.1 Tower Foundation

Drilled Pier Alternative: Based on the results of the boring, the following drilled pier 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, &sub50 (in/in)
0 - 3	Topsoil and Lean Clay	Ignore	Ignore	Ignore	-	-	Ignore	Ignore
3 - 8½	Lean Clay	425	Ignore	1,500	0	1,500	125	0.007
8½ -20	Weathered Shale	550	3,500	2,750	0	2,750	220	0.005
20 - 25	Weathered Shale	1,000	5,000	3,000	0	3,000	500	0.004
25 - 31½	Weather Shale / Limestone	3,000	10,000	6,000	0	60,000	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 lean clay/weathered shale and limestone, respectively.

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 a drilled pier designed using the above parameters is not anticipated to exceed 1 inch.

The upper 3 feet of topsoil and lean clay should be ignored due to the potential affects of frost action and construction disturbance. To avoid a reduction in lateral and uplift resistance caused by variable subsurface conditions, we recommend that drawings instruct the contractor to notify the engineer if subsurface conditions significantly differ than those encountered in the boring are disclosed during the drilled pier installations. 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 excavations.

Although the boring was able to penetrate portions of the highly weathered shale, it is likely that larger diameter drilled pier equipment will refuse on this material at higher elevations than shown in our boring. The contractor should recognize the hardness of the material and be prepared to use rock teeth or other means to extend through these layers.

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

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

Mat Foundation Alternative: 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 Terracons 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 δ	Vertical Modulus of Subgrade Reaction (pci)
0 - 2	Topsoil and Lean Clays	Ignore	Ignore	-	
≥ 2	Lean Clay or Highly Weathered Shale	3,000	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

The proposed equipment shed may be supported on shallow footings bearing on stiff natural soils. The equipment building foundations should be dimensioned using a net allowable soil bearing pressure of 2,500 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 feet square.

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

The recommended soil bearing value should be considered an upper limit, and any value less than that listed above would be acceptable for the foundation system. Using the value given, total settlement would be about 1 inch or less with differential settlements being less than 75 percent of total settlement. Footings should be placed at a depth of 2 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 soils are considered suitable for re-use as fill. It is recommended that during construction these soils should be further tested and evaluated prior to use as fill. Fill should not contain frozen material and it should not be placed on a frozen subgrade.

The fill should be placed and compacted in lifts of 9 inches or less in loose thickness. Fill placed below structures or used to provide lateral resistance should be compacted to at least 98 percent of the material's maximum standard Proctor dry density (ASTM D-698). Fill should be placed, compacted, and maintained at moisture contents within minus 2 to plus 2 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, between tower legs, 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

LOG OF BORING NO. B-1

CLIENT Bluegrass Cellular Partnership											
SITE 2414 Hanging Rock Road Leitchfield, Kentucky		PROJECT Proposed Hanging Rock Telecommunication Tower									
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES				TESTS			
				NUMBER	TYPE	RECOVERY, in.	SPT - N BLOWS / ft.	WATER CONTENT, %	DRY UNIT WT pcf	UNCONFINED STRENGTH, psf	ATTERBERG LIMITS
0.4	TOPSOIL LEAN CLAY , light brown, medium stiff to very stiff	5	CL	1	SS	12	14	22		4000*	LL = 21 PL = 17 PI = 4
			CL	2	SS	18	20	14		6000*	
			CL	3	SS	18	13	21		8000*	
8.5	WEATHERED SHALE		CL	4	SS	0	50/0				
			CL	5	SS	0	50/0				
				6	SS	0	50/0				
20	Auger Refusal at 20 feet, Began Coring SHALE , completely weathered to weathered, dark to medium gray, very closely to closely jointed, soft to moderately hard			7	DB	40%	RQD 10%				
				8	DB	95%	RQD 44%				
30	LIMESTONE , slightly weathered, light gray, closely jointed, hard Boring Terminated at 31.5 feet			9	DB	100%	RQD 80%				

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

*Calibrated Hand Penetrometer

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



BORING STARTED		8-24-06	
BORING COMPLETED		8-24-06	
RIG	CME-550	FOREMAN	MW
APPROVED	TMH	JOB #	57067407G

BOREHOLE 99-57067407G LOGS.GPJ TERRACON.GDT 9/1/06

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+

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^a

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) ^b		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^A

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

^ABased on the material passing the 3-in. (75-mm) sieve

^BIf field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

^CGravels 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.

^DSands 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

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

^FIf soil contains $\geq 15\%$ sand, add "with sand" to group name.

^GIf fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

^HIf fines are organic, add "with organic fines" to group name.

^IIf soil contains $\geq 15\%$ gravel, add "with gravel" to group name.

^JIf Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

^KIf soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

^LIf soil contains $\geq 30\%$ plus No. 200 predominantly sand, add "sandy" to group name.

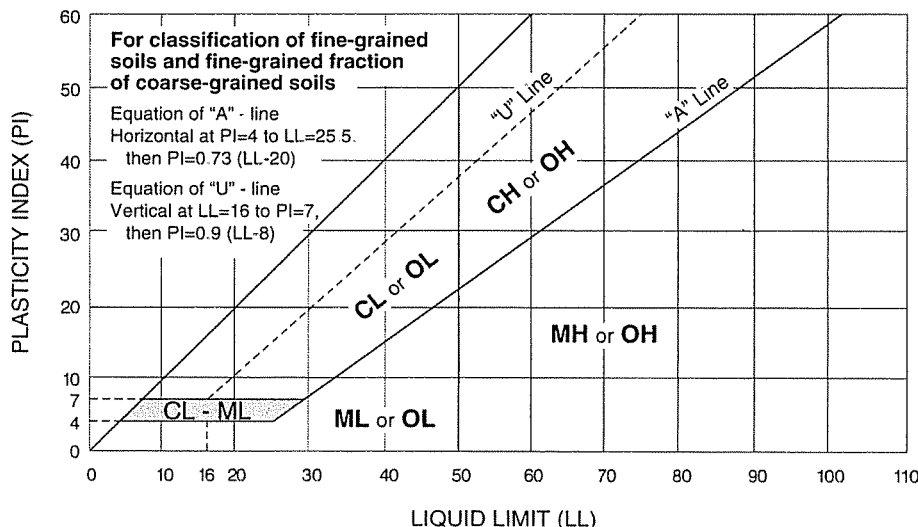
^MIf soil contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name.

^N $PI \geq 4$ and plots on or above "A" line.

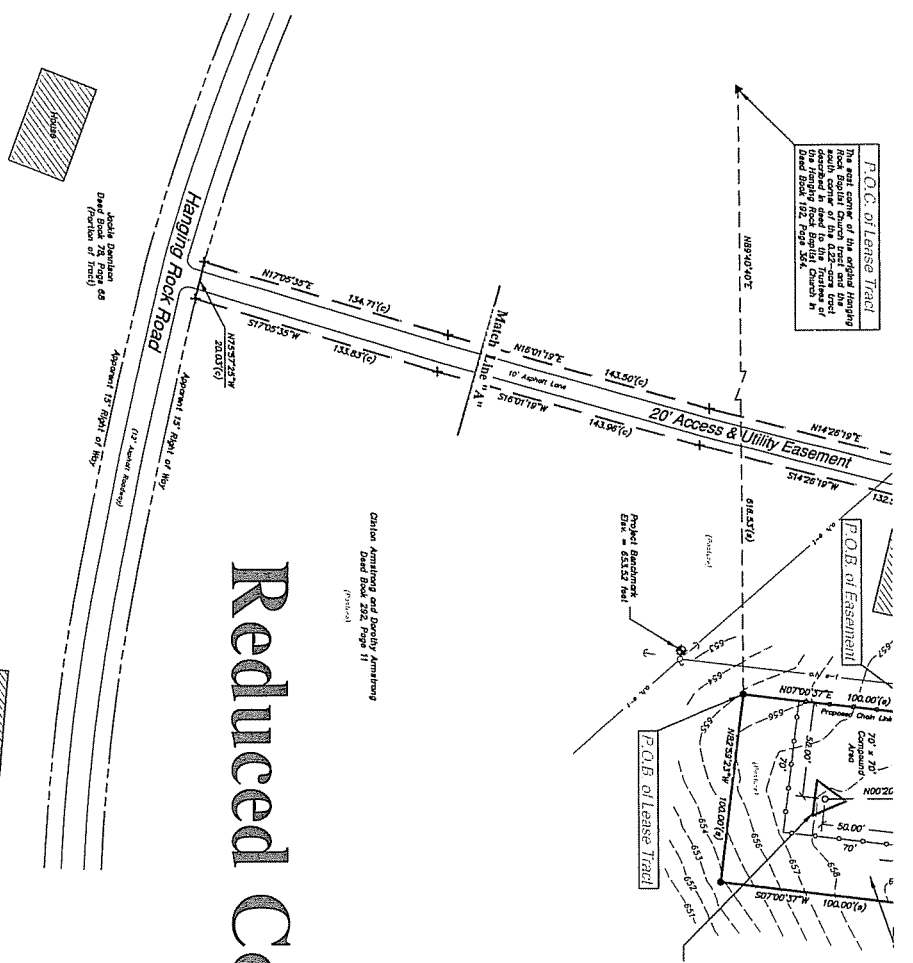
^O $PI < 4$ or plots below "A" line.

^PPI plots on or above "A" line.

^QPI plots below "A" line.



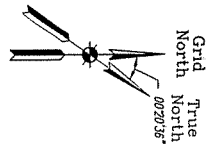
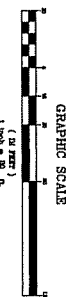
Site: Hanging Rock
Lease Boundary and Topographic Survey
Grayson County, Kentucky



P.O.B. of Lease Tract
 The east corner of the original Hanging Rock lease is located at the south corner of the 425'-area tract, the Hanging Rock Baptist Church in deed book 102, Page 354.

Ordnal Armetizing and Quality Armetizing
 Date Book 292, Page 11

Reduced Copy



- Legend**
- 5/8" Round S.I. Nail with 4 Sides
 - 5/8" Round S.I. Nail with 2 Sides
 - ▲ 5/8" Round S.I. Nail - No Cap
 - △ 6" Tripod (Fingering) Control
 - Monument Found Erupted
 - + Calculated Position - No Monument S.I.
 - Easement Boundary
 - - - Right of Way
 - Utility Pole
 - Guy Anchor
 - Temporary Fictitious
 - (m) Recorded
 - (c) Calculated
 - (h) Subject Boundary

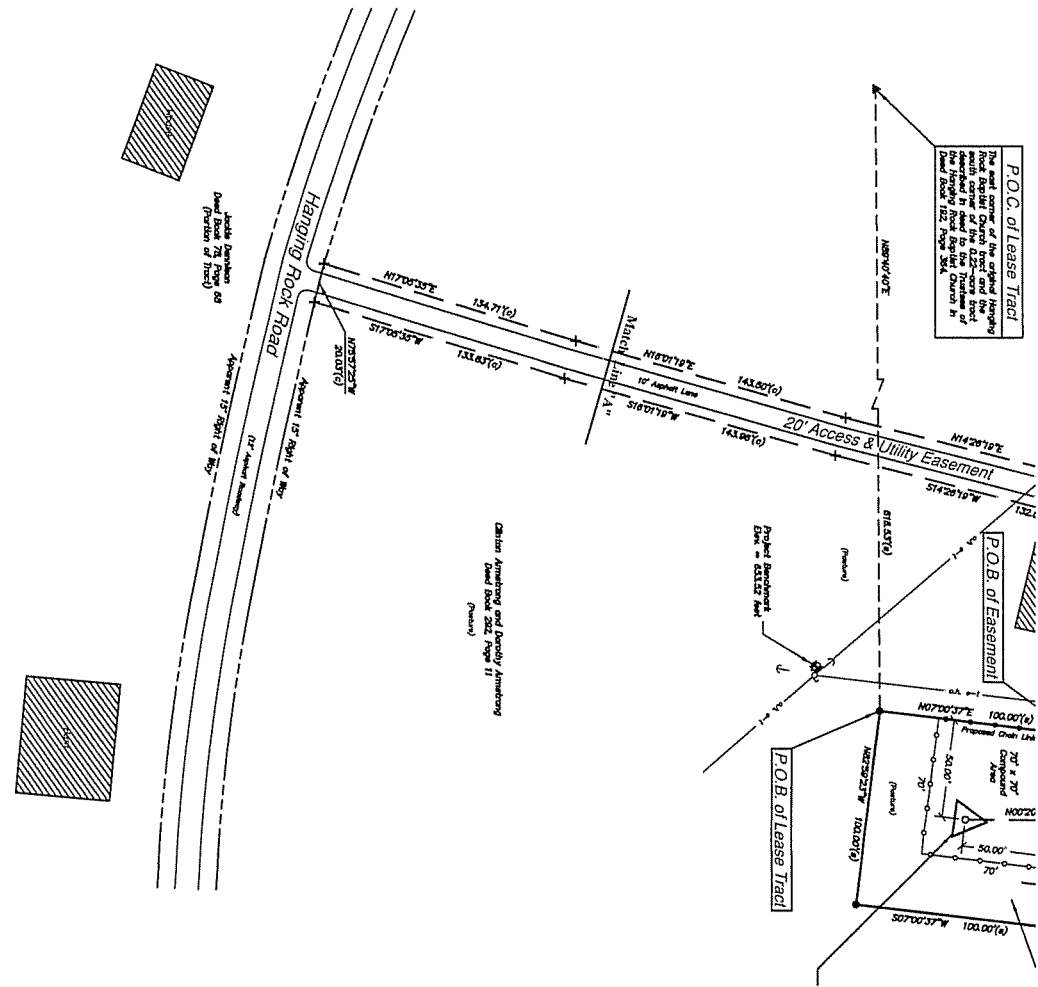
Surveyor's Certification
 I hereby certify that this plot has been compiled from a survey actually made upon the ground, and that the same is true and correct to the best of my knowledge and belief, and that the same has been recorded in the public records of the county and state of this state, and that the same is a true and correct copy of the original and that the same is a true and correct copy of the original and that the same is a true and correct copy of the original.

Darrien L. Helms
 Darrien L. Helms, PLS 108
 JAN 23, 2007

STATE OF KENTUCKY
PROFESSIONAL
LAND SURVEYOR
 3386
 DARRIEN L. HELMS

Bluegrass Cellular 2902 Ring Road Elizabethtown, Kentucky 42702	Lease Boundary Survey 2408 Hanging Rock Road Leitchfield, Kentucky 42754			Landmark Surveying Co., Inc. 15 N.E. 3rd Street Washington, Indiana 47501 (812) 257-0500 Date: Invention/Revised/et Project No. 06-10-025
	DATE: 1-23-07 DRAWN BY: A. Webber CHECKED BY: D.L. Helms	SHEET NO. 2 OF 2 SHEETS		FILE NO. Hanging Rock

Site: Hanging Rock Lease Boundary and Topographic Survey Grayson County, Kentucky

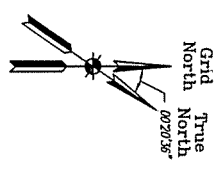


P.O.C. of Lease Tract
The east corner of the original Hanging Rock Tract, as shown on the plat of the original survey, is shown to be the true north-south line of the original survey. The true north-south line of the original survey is shown to be the true north-south line of the original survey.

P.O.B. of Easement

P.O.B. of Lease Tract

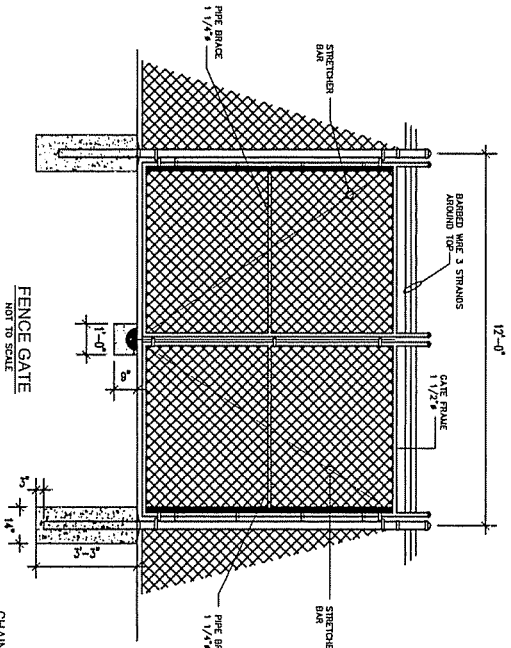
Other Appurtenant and Property Interests
See Book 202, Page 11
(None)



- Legend**
- 3/8" Rubber Set Back With A Survey
 - 5/8" Rubber Set Back With A Survey
 - 5/8" Rubber Set Back - No Cap
 - ▲ 5" Tripod (Equivalent) Corner
 - ▲ Monument (and Exposed) Corner
 - + Observed Station - No Monument Set
 - Subject Boundaries
 - Easement Boundaries
 - Right of Way
 - U Utility Pole
 - U Utility Pole
 - U Telephone Pole
 - (M) Measured
 - (C) Calculated
 - (S) Set

Surveyor's Certification
I hereby certify that this plat has been compiled from a survey actually made upon the ground under my direct supervision on January 3, 2007 by the method of traverse and that the survey was made in accordance with the provisions of the Kentucky Statutes, Chapter 130, and that I am not qualified to do a class B survey, and the accuracy and precision of this survey meets all the specifications of this class.

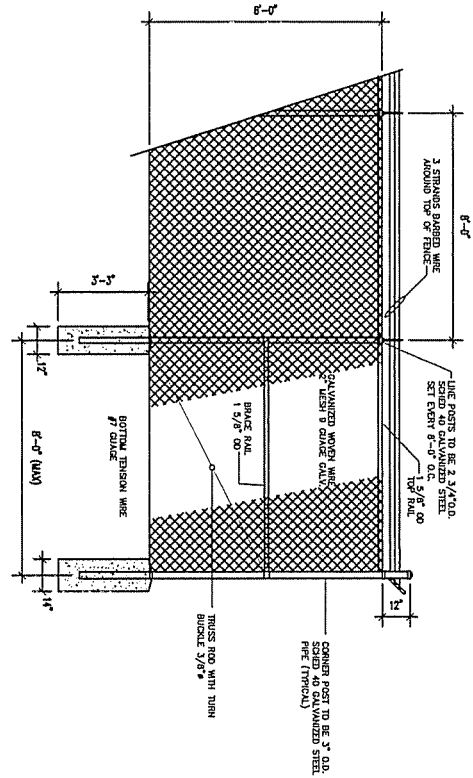
Surveyor: DL Helms, PLS 3388
Date: 01/03/07



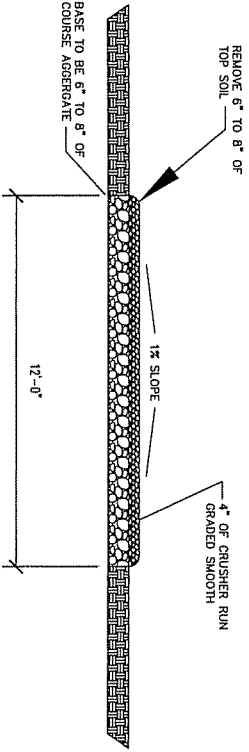
FENCE GATE
NOT TO SCALE

CHAIN LINK FENCING NOTES:

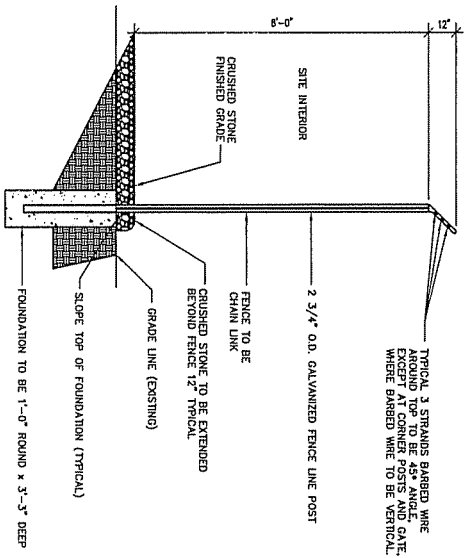
1. FABRIC: THE FABRIC SHALL BE COMPOSED OF INDIVIDUAL HOT DIP GALVANIZED STEEL STRANDS WELDED TOGETHER TO FORM A CONTINUOUS CHAIN LINK FABRIC HAVING A 2" MESH. TOP EDGES SHALL HAVE A TWISTED AND BARBED
2. POSTS: SHALL BE 2 3/4" O.D. S5 40 PIPE HOT GALVANIZED. THESE POSTS SHALL BE SPACED APPROXIMATELY 8'-0" ON CENTERS AND SET FULL 3"-5" IN BELL - SHAPED CONCRETE FOOTING, GROWNED 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 AVERAGING NOT LESS THAN 20'.
4. FABRIC TIES: FOR ATTACHING FABRIC TO LINE POST, TOP RAIL, OR TOP WIRE, SHALL BE ALUMINUM STRIP OF 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, SHALL RUN SLOPED TO 45°, AND VERTICAL ON TOP OF SWING GATES.
6. BARBED WIRE (STEEL): ASTM A121 GALVANIZED STEEL, 12 GAUGE THICK WIRE, 3 STRANDS 4 POINTS AT 3" O.C.
7. SWING GATE POSTS: SHALL BE 3" O.C. STANDARD HOT GALVANIZED, WEIGHING 5.75 LBS. PER FOOT.
8. GATES: (a) SWING GATES: 2" O.C. STANDARD PIPE WITH INTERNAL BRACING OF 1 5/8" O.D. STANDARD PIPE WELDED AT ALL JOINTS TO PROVIDE RIGID WATER-TIGHT CONSTRUCTION. FABRIC SAME AS FENCE.
(b) SLIDING GATES: SHALL BE 100% ERECTED WITHIN TEN(10) DAYS OF COMPLETION OF CONSTRUCTION. IF THE FRAME CANNOT BE MET, PLEASE NOTIFY PROJECT MANAGER.



FENCE DETAIL END POLES
NOT TO SCALE



ROAD DETAIL
NOT TO SCALE



FENCE DETAIL LINE POLES
NOT TO SCALE

NO.	DATE	REVISION

R B DESIGN
 6400 MERCURY DRIVE LOUISVILLE, KY 40291
 502.251.1111 • 251.885.1801

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
HANGING ROCK
 2412 HANGING ROCK RD. LEITHFIELD, KY. 42754

DRAWN BY: **R. BECKER**
 ISSUE DATE: **8-21-06**
 SCALE: **LISTED**

BLUEGRASS CELLULAR GENERAL NOTES & ANTENNA SPECS

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

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

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

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

LINES ARE TO BE SECURED TO ICE BRIDGE

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

ALL COAX CONNECTIONS ARE TO BE WEATHER PROOFED. INVENTORY OF ALL MATERIAL IS TO BE DONE PRIOR TO INSTALLATION BY CONTRACTOR. (LIST WILL BE PROVIDED)

ALL TRASH AND REFUGE IS TO BE PROPERLY DISPOSED OF.

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

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.

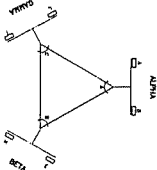
GENERAL CONTRACTOR TO MOUNT ANTENNA MOUNTS AT TOP OF STRUCTURE OR TOWER BY BLUEGRASS CELLULAR SPECIFICATIONS.

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

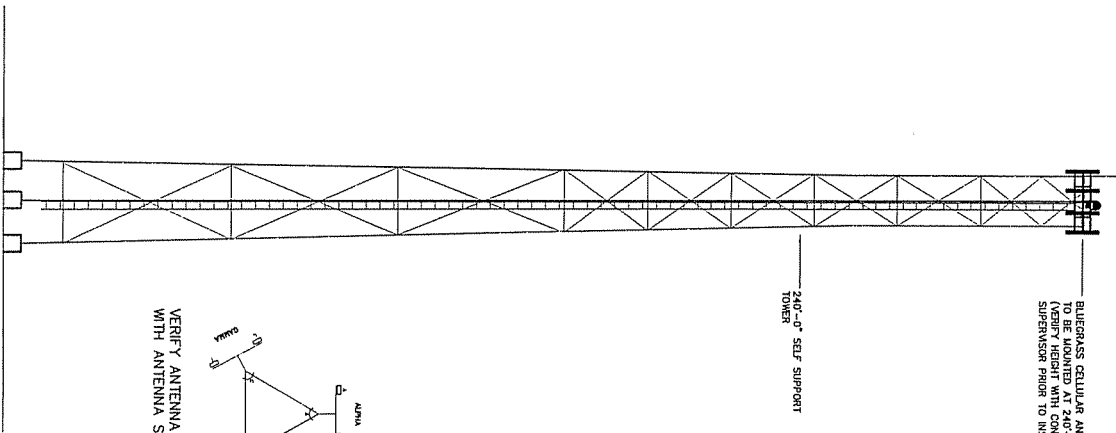
BLUEGRASS CELLULAR ANTENNAS (6) TO BE MOUNTED AT 240'-0" C/L (VERIFY HEIGHT WITH CONSTRUCTION SUPERVISOR PRIOR TO INSTALLATION)

240'-0" SELF SUPPORT TOWER

VERIFY ANTENNA ORIENTATION WITH ANTENNA SPECIFICATIONS



SELF SUPPORT TOWER ELEVATION (TYPICAL)



TOWER HEIGHT & TYPE

TYPE	SIZE	NUMBER	AZIMUTH	MOUNTING HEIGHT
ANTENNA (PRIMARY)	L=28.6 W=10.3 D=1.6	6	0°, 120°, 240°	240'-0" C/L (VERIFY WITH CONSTRUCTION SUPERVISOR)
ANTENNA (SECONDARY)				

ANTENNA SPECS

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

ANTENNA MOUNTING HARDWARE SPECS

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

ANTENNA TRANSMISSION LINES SPECS

DISH #1	WAVELENGTH/POWER	SIZE	NUMBER	AZIMUTH	MOUNTING HEIGHT
DISH #1					
DISH #2					

DISH SPECS

TYPE	SIZE	NUMBER
MOUNT #1		
MOUNT #2		

DISH MOUNT SPECS

TYPE	SIZE	NUMBER
TRANSMISSION LINE #1		
TRANSMISSION LINE #2		

DISH TRANSMISSION LINES

ANTENNA SYNOPSIS

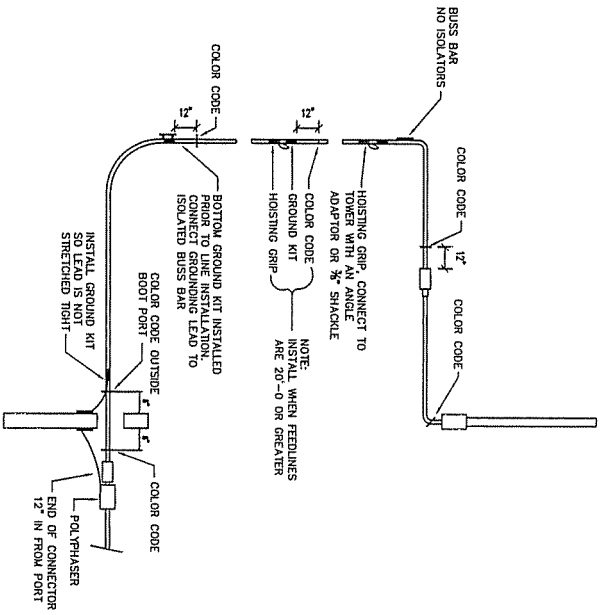
* ANTENNAS TO HAVE A 2'E X.Y.Z
* ANTENNA FREQUENCY 890.00 - 890.00



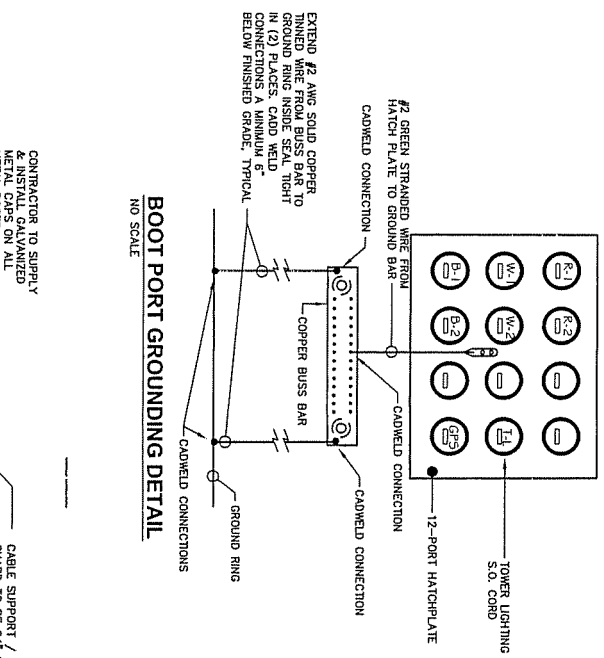
NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
HANGING ROCK
2412 HANGING ROCK RD. LEITHFIELD, KY. 42754

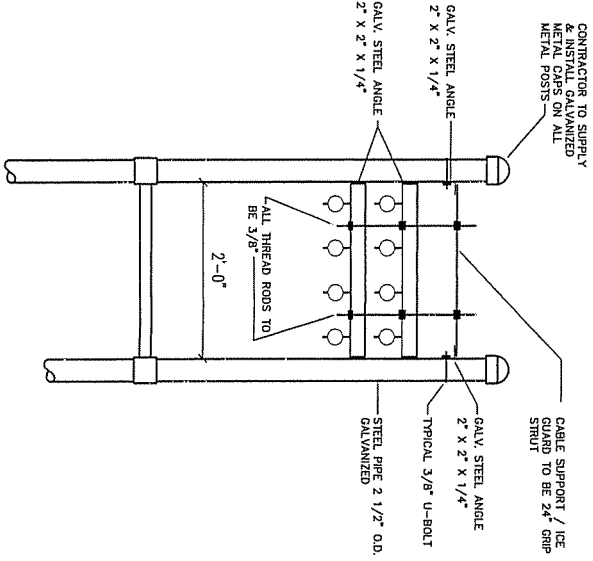
DRAWN BY: R. BECKER
ISSUE DATE: 8-21-06
SCALE: LISTED
SHEET NUMBER: 1



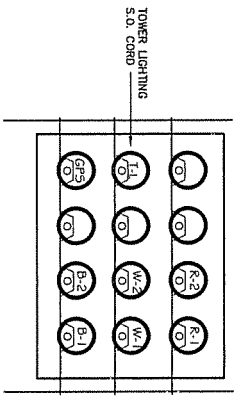
COLOR CODING DETAIL
NO SCALE



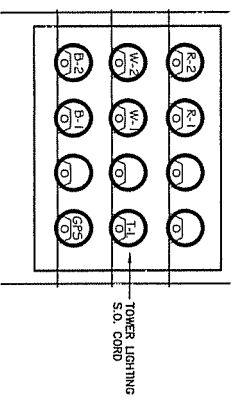
BOOT PORT GROUNDING DETAIL
NO SCALE



ICE BRIDGE / COAX SUPPORT DETAIL
NO SCALE



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



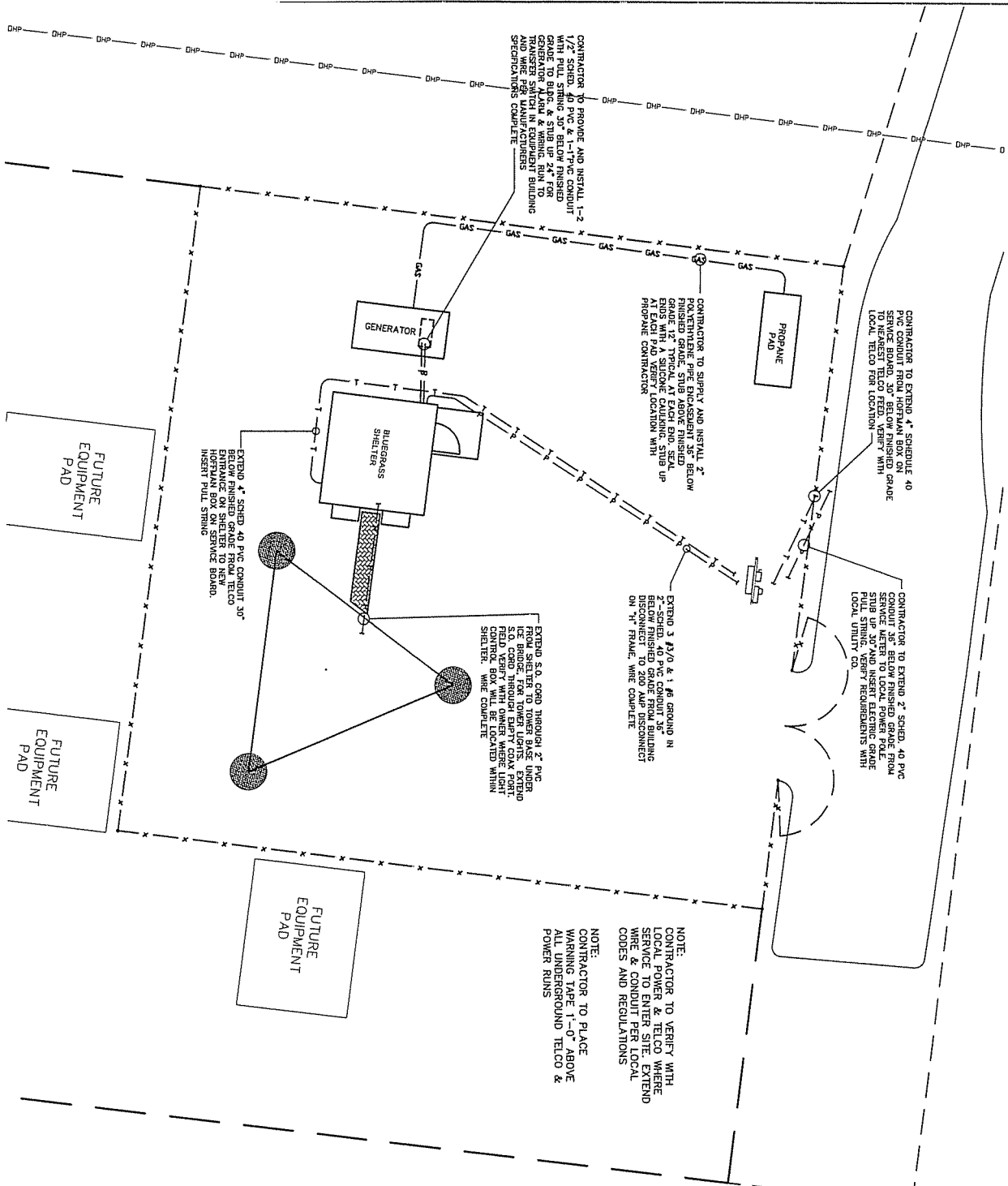
COAX ENTRY DETAIL A/C SIDE (VIEW FROM INSIDE SHELTER)
NO SCALE

DRAWN BY: R. BECKER
ISSUE DATE: 8-21-06
SCALE: LISTED
SHEET NUMBER: 2

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
HANGING ROCK
2412 HANGING ROCK RD. LEITHFIELD, KY. 42754

NO.	DATE	REVISION



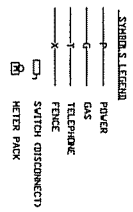


NOTE:
CONTRACTOR TO VERIFY WITH LOCAL POWER & TELCO WHERE SERVICE TO ENTER SITE. EXTEND WIRE & CONDUIT PER LOCAL CODES AND REGULATIONS

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

- GENERAL ELECTRICAL NOTES:
- 1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.
 - 2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE. THE PAYMENTS REQUIRED TO OBTAIN SERVICE.
 - 3) GROUND RING TO BE CONTAINED WITH IN THE COMPOUNDS FENCED AREA.
 - 4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POST & GATES. SPACE FENCE GROUNDED APPROXIMATELY 20'-0" O/C. (CADD WELD ALL CONNECTIONS)
 - 5) ALL GROUND RING CONNECTIONS TO BE AS CLOSE AS POSSIBLE. SHARP BENDS WILL NOT BE PERMITTED AS WELL AS "T" CONNECTIONS. ALL CONNECTIONS TO HAVE A SWEEPING RADIUS OF 8" MINIMUM. 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 CONNECTION 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 THE SITE 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.

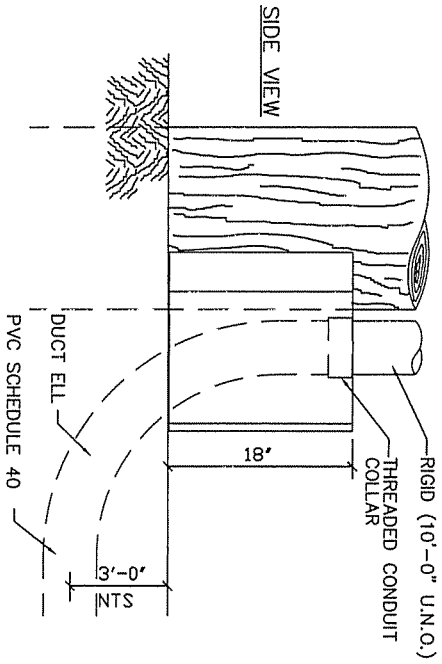
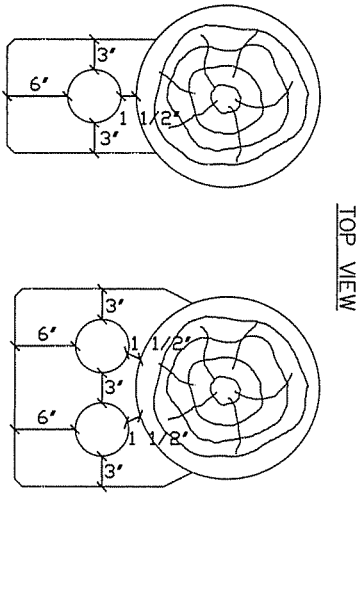


SITE PLAN - ELECTRICAL

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

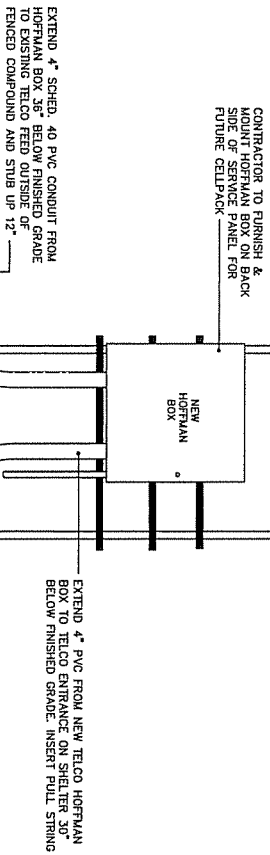
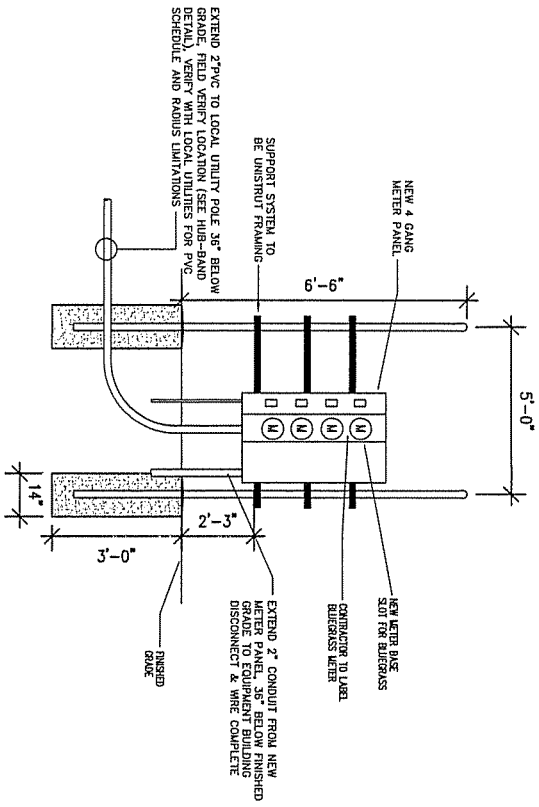
DRAWN BY: R. BECKER	ISSUE DATE: 8-21-06	SCALE: LISTED	SHEET NUMBER: E-1		NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
HANGING ROCK
 2412 HANGING ROCK RD. LEITCHFIELD, KY. 42754




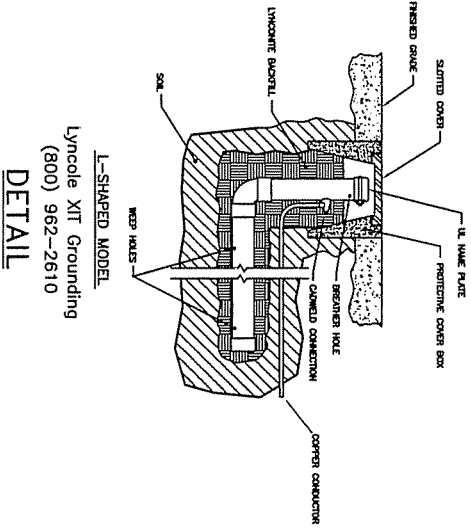
HUB-BAND DETAIL
NO SCALE

SERVICE BOARD DETAIL
NO SCALE



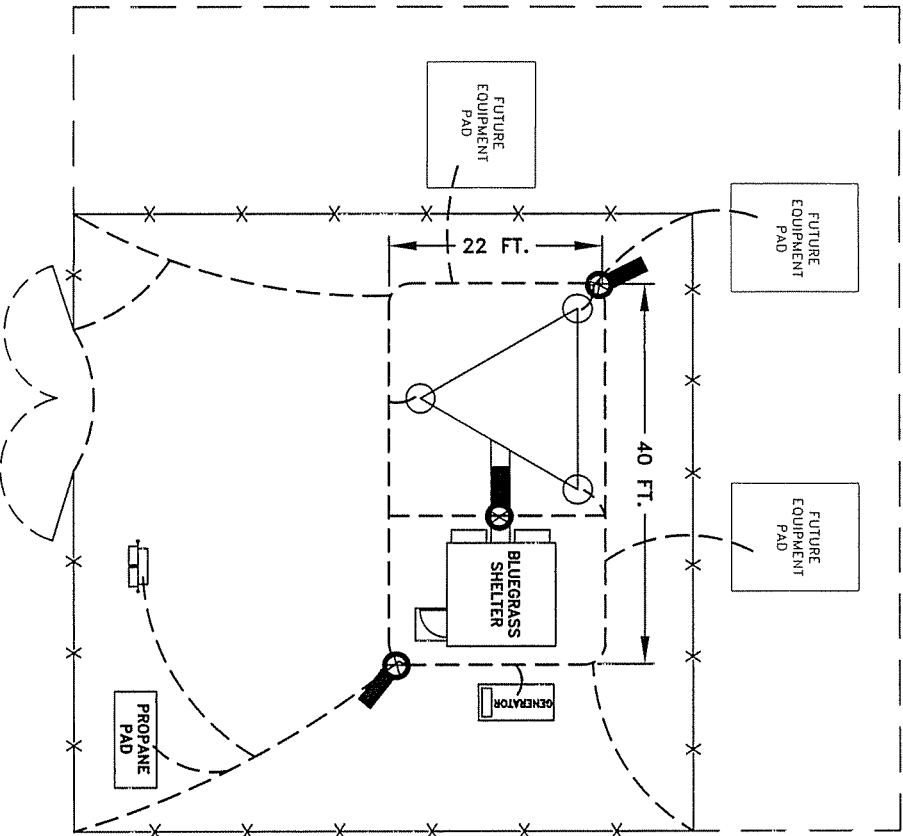
BACKBOARD DETAIL
NO SCALE

DRAWN BY: R. BECKER	SHEET NUMBER: E-2	BLUEGRASS CELLULAR, INC. STANDARD CELLULAR SITE HANGING ROCK 2412 HANGING ROCK RD. LEITHFIELD, KY. 42754	NO.	DATE	REVISION	
ISSUE DATE: 8-21-06						840 MERCURY DRIVE LOUISVILLE, KY 40201 Fax: (502) 251-2336
SCALE: LISTED						



Lyncole XIT Grounding
(800) 962-2610

DETAIL

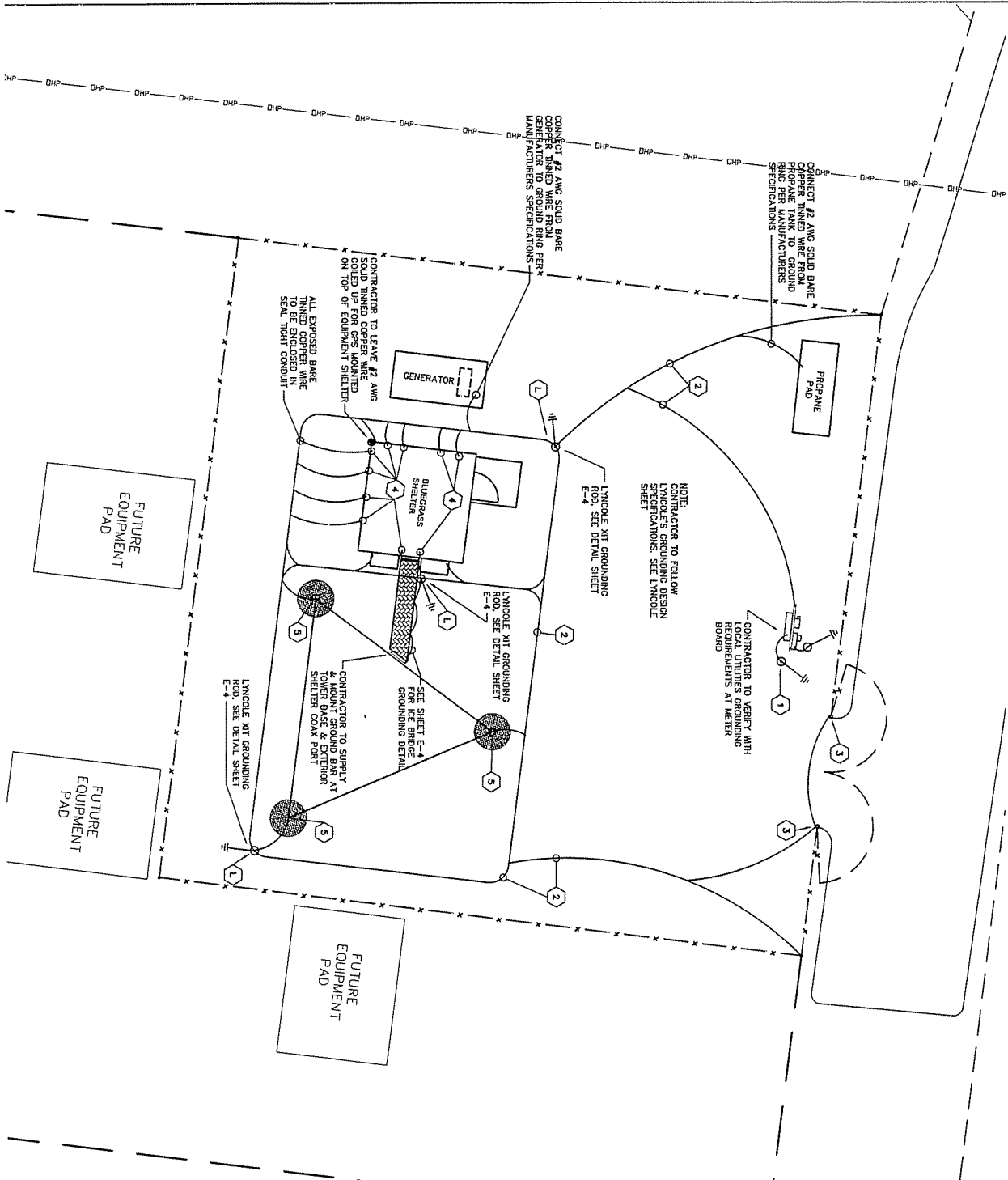


NOTES:

- 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
- K2L-10CS (SEE DETAIL)

<p>LYNCOLE</p> <p>TECHNICAL SERVICES</p> <p>3547 VORAGER STREET, SUITE 204 TERRANCE, CA, 90503 (800)962-2610 FAX (310)214-1114 ENGINEERING@LYNCOLE.COM</p>		CLIENT / END USER	
		BLUEGRASS CELLULAR	
DRAWING PROJECT NAME		HANGING ROCK	
TITLE		GROUNDING OPTION	
LOCATION: CITY, STATE		CALCULATED RESISTANCE	
LEITCHFIELD, KY		< 5 OHMS	
DRAWN BY	APPROVED BY	DATE	
DCN		2/5/07	
REFERENCE NUMBER	SCALE	LTS NUMBER	
	1/4" = 1'	079999	

SOIL DATA PROVIDED BY TERRANCE



- GENERAL ELECTRICAL NOTES:
- 1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.
 - 2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.
 - 3) GROUND RING TO BE CONTAINED WITH IN THE COMPOUND'S FENCED AREA.
 - 4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POST & GATES. SPACE FENCE GROUNDED APPROXIMATELY 20'-0" O/C. (COLD WELD ALL CONNECTIONS)
 - 5) ALL GROUND RING CONNECTIONS TO BE AS CLOSE AS POSSIBLE. SHARP BENDS WILL NOT BE PERMITTED AS WELL AS "T" CONNECTIONS. ALL CONNECTIONS TO HAVE A SWEEPING RADIUS OF 8" MINIMUM. GROUNDING CONFIGURATION TO BE IN PARALLEL.
 - 6) CONTACT POINTS FOR 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 AEG 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 RINGS * UNDER GROUND. TAPE TO BE INSTALLED AT 9" BELOW GRADE.

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

- REMARKS:**
- 1) LYNCOLE XIT GROUNDING ROD TO BE INSTALLED WHERE SHOWN AND TO MANUFACTURERS SPECIFICATIONS. (SEE LYNCOLE SPECIFICATIONS)
 - 2) GROUNDING RODS MUST BE 1/2" LONG & 3/4" COPPER (TYPICAL) SPACING OF RODS INDICATED ON PLANS.
 - 3) INSTALL AND PROVIDE SOLID BARE THINNED COPPER WIRE #2 AWG, GROUND RESPECTIVE STATE TO
 - 4) FLEXIBLE GROUNDING STRAP TO BE USED TO PROVIDE A COMMON BOND BETWEEN GATE AND CHAIN LINK FENCE. #2 AWG SOLID COPPER BARE CONNECTING GROUND TAP TO BE PROVIDED ON EACH 4 SIDES TO GROUND RING AS DESCRIBED ABOVE.
 - 5) BONDING GROUND TO BE PROVIDED TO GROUND RING FOR EACH OF THE GATE STRINGS. BONDING STRAP TO BE PROVIDED TO GROUND RING FOR EACH OF THE GATE STRINGS.
 - 6) FOR TOWER FRAME GROUNDING, BONDING CALUMBER COILING COMPLETELY AT 90° TO "COLD WELD" TO AND CLEAN. #2 AWG SOLID BARE THINNED COPPER CONDUCTOR TO BE COLD WELDED APPROXIMATELY 1'-0" ABOVE EXISTING CONDUCTOR TO GROUND RING. BARE METAL WELDED AND ACCEPTED ALL BENDS TO BE SWEEPING.

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

SITE PLAN-GROUNDING

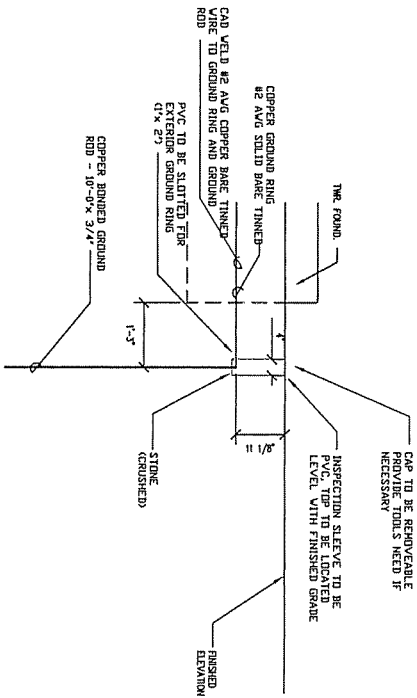
R B DESIGN
 6400 MERCURY DRIVE LOUISVILLE, KY. 40291
 (502) 261-1200 FAX (502) 261-1206

NO.	DATE	REVISION

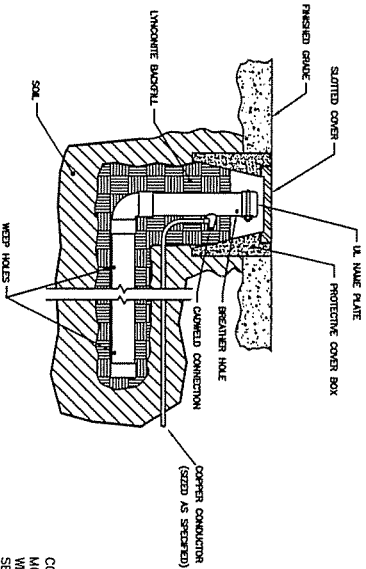
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
HANGING ROCK
 2412 HANGING ROCK RD. LEITCHFIELD, KY. 42754

DRAWN BY: **R. BECKER**
 ISSUE DATE: **8-21-06**
 SCALE: **LISTED**

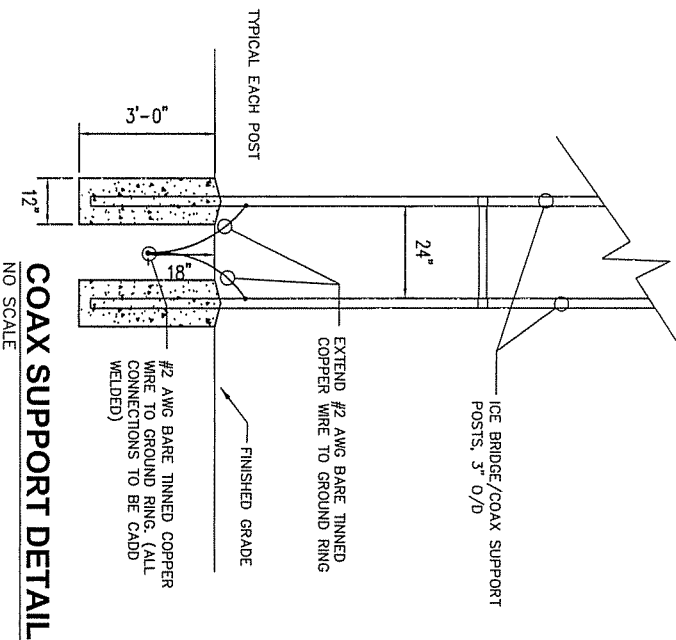
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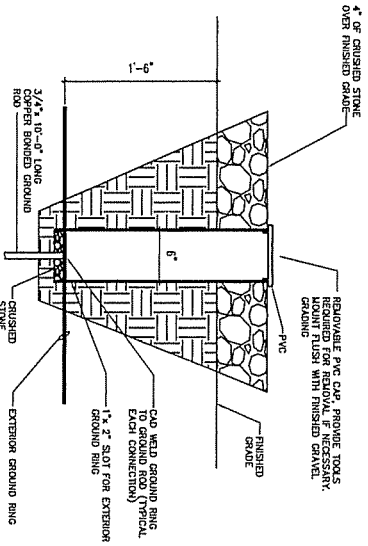
GROUND ROD DETAIL
NO SCALE



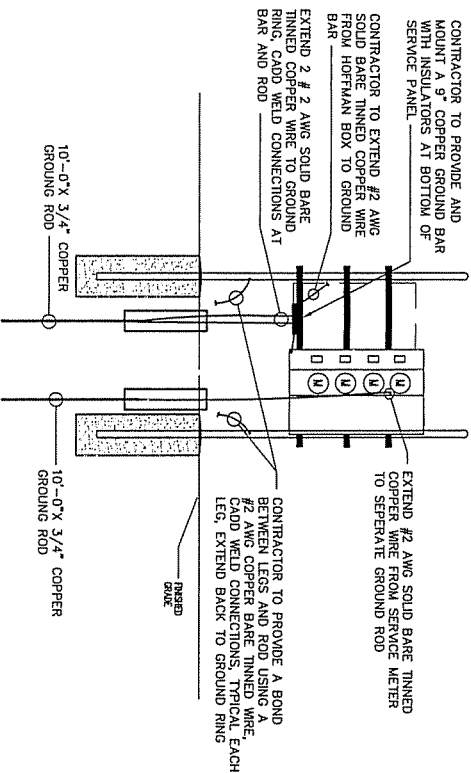
LYNCOLE XIT ROD DETAIL
NO SCALE



COAX SUPPORT DETAIL
NO SCALE



GROUND SLEEVE DETAIL



SERVICE BOARD DETAIL
NO SCALE

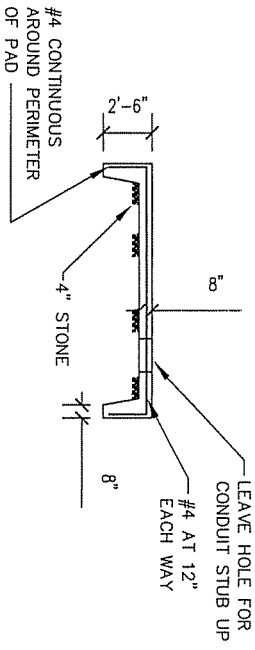
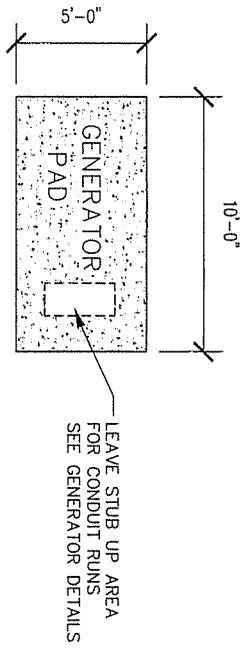
NO.	DATE	REVISION



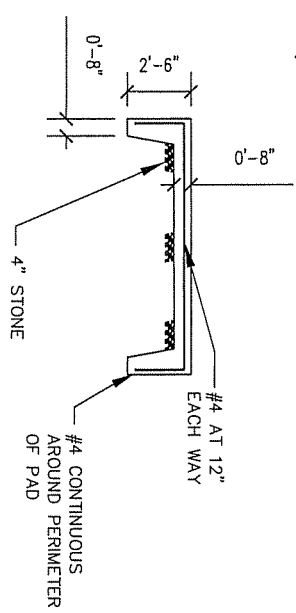
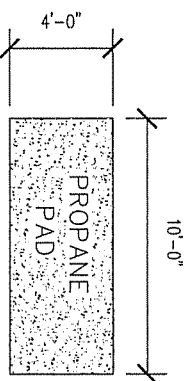
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
HANGING ROCK
2412 HANGING ROCK RD. LEITCHFIELD, KY. 42754

DRAWN BY: **R. BECKER**
ISSUE DATE: **8-21-06**
SCALE: **LISTED**

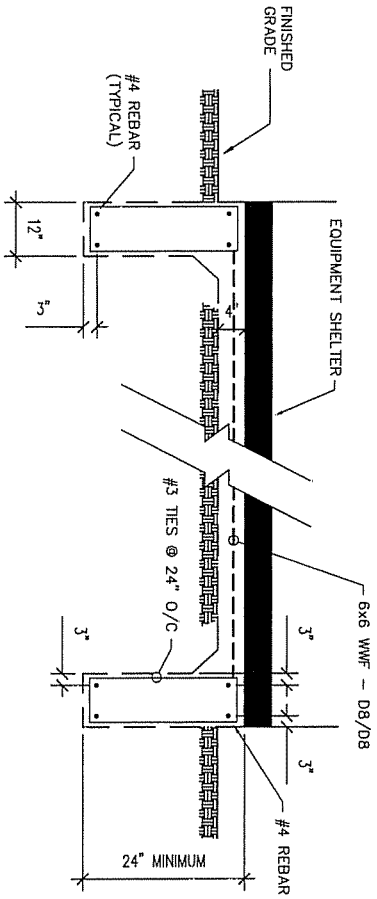
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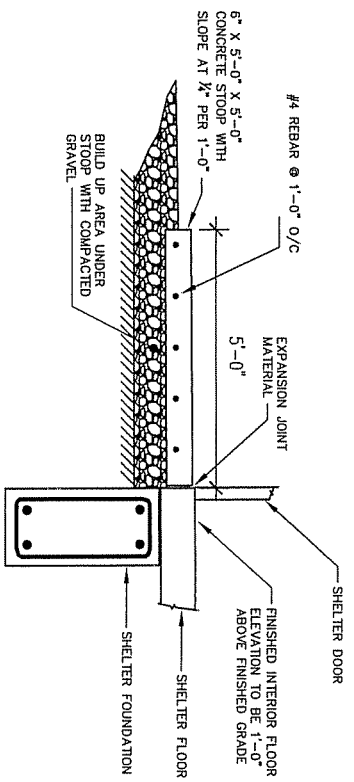
FOUNDATION DETAIL
NO SCALE



FOUNDATION DETAIL
NO SCALE



SHELTER FOUNDATION PLAN
NO SCALE



CONCRETE STOOP DETAIL
NO SCALE

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
HANGING ROCK
2412 HANGING ROCK RD. LEITHFIELD, KY. 42754

R B DESIGN
6405 MERCURY DRIVE LOUISVILLE, KY. 40291
(502) 339-9187 Fax: (502) 339-2636

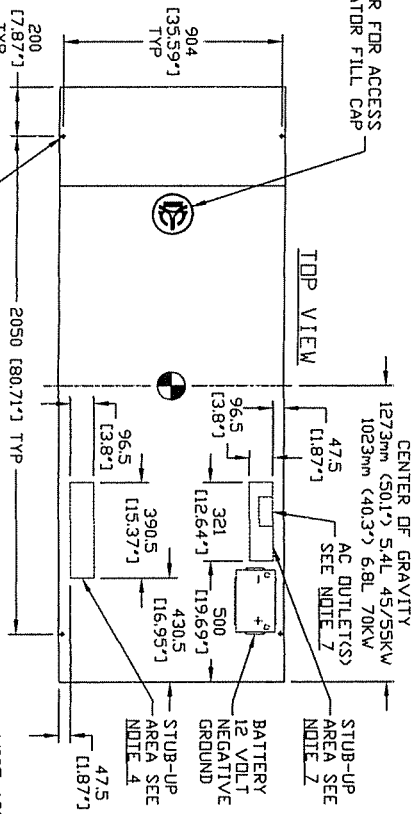
DRAWN BY: **R. BECKER**
ISSUE DATE: **8-21-06**
SCALE: **LISTED**

0G1407

NOTES:

- 1) MINIMUM RECOMMENDED CONCRETE PAD SIZE: 1545 (60.8') WIDE X 3061 (120.5') LONG.
- 2) GENERATOR MUST BE LOCATED A MINIMUM DISTANCE OF 5 FEET FROM A WALL OR FENCE. ALLOW A 5 FOOT MINIMUM PERIMETER OF OPEN SPACE AROUND THE ENTIRE GENERATOR.
- 3) CIRCUIT BREAKER INFORMATION: SEE SPECIFICATION SHEET WITHIN OWNERS MANUAL.
- 4) INSIDE STUB-UP AREA FOR AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, AUXILIARY OUTPUT RELAYS AND ACCESS TO TRANSFER SWITCH CONTROL WIRES. REMOVE COVER FOR ACCESS.
- 1A) FIELD CUT HOLE IS ONLY REQUIRED FOR MOUNTING OF GENERATOR ON AN EXISTING PAD.
- 5) REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
- 6) REMOVE EITHER LEFT OR RIGHT HAND SIDE PANEL TO ACCESS EXHAUST MUFFLERS.
- 7) INSIDE ACCESS TO 120VAC, 20A GFCI OUTLET PREWIRED TO SUPPLY POWER TO BATTERY CHARGER.
- 5.4L ONLY: 15A, 240VAC OUTLET FOR ENGINE BLOCK HEATER.
- 6.8L ONLY: USE 20A GFCI OUTLET FOR ENGINE BLOCK HEATER.

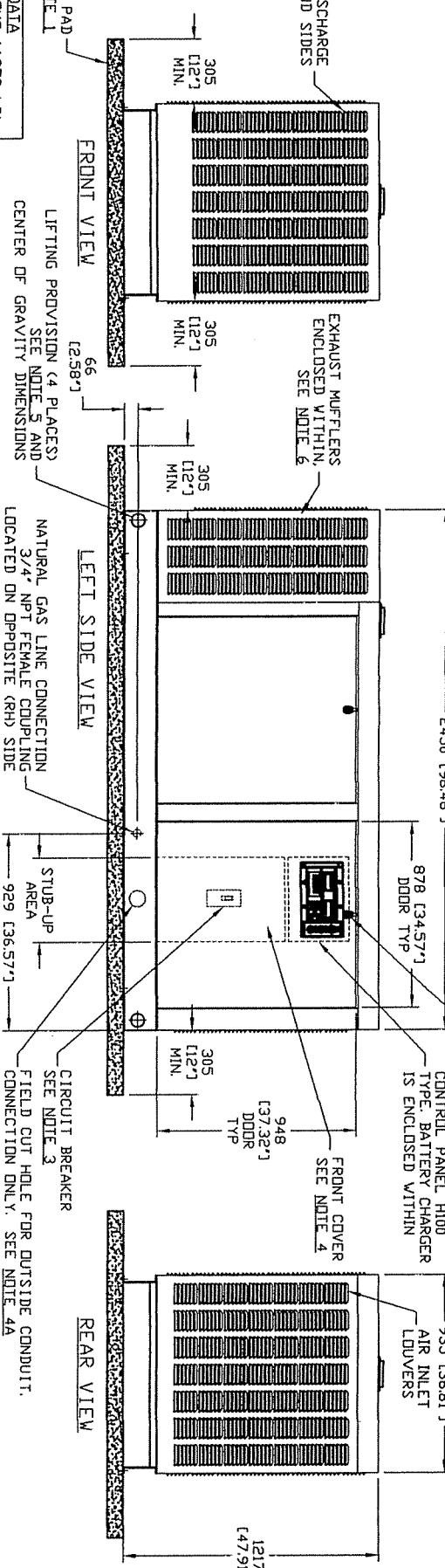
REMOVE COVER FOR ACCESS TO RADIATOR FILL CAP



SERVICE ITEM ACCESSIBILITY CHART

SERVICE ITEM	5.4L 45/55KW	6.8L 70KW
DIL FILL CAP	THRU RIGHT FRONT DOOR	THRU LEFT FRONT DOOR
DIL DIP STICK	THRU LEFT FRONT DOOR	THRU LEFT FRONT DOOR
OIL FILTER	THRU LEFT FRONT DOOR	THRU LEFT FRONT DOOR
DIL DRAIN HOSE	THRU RIGHT FRONT DOOR	THRU LEFT FRONT DOOR
RADIATOR DRAIN HOSE	THRU LEFT FRONT DOOR	THRU LEFT FRONT DOOR
AIR CLEANER ELEMENT	EITHER FRONT DOOR	EITHER FRONT DOOR
SPARK PLUGS	BOTH FRONT DOORS	BOTH FRONT DOORS
MUFFLERS	SEE NOTE 6	SEE NOTE 6
FAN BELT	EITHER FRONT DOOR	EITHER FRONT DOOR
BATTERY	THRU RIGHT REAR DOOR	THRU RIGHT REAR DOOR
AC OUTLET(S)	THRU RIGHT REAR DOOR	THRU RIGHT REAR DOOR

REFERENCE OWNERS MANUAL FOR PERIODIC REPLACEMENT PART LISTINGS



WEIGHT DATA
 5.4L 45/55KW - 895KG (1973 LB)
 6.8L 70KW - 991KG (2185 LB)
 WOODEN SHIPPING SKIDS INCREASE OVERALL WEIGHT 79KG (175LB)

GENIE POWER SYSTEMS, INC. IS THE COMPANY OF THE ABOVE UNIT IS DESIGNED IN CONFORMANCE WITH THE FOLLOWING STANDARDS: NFPA 704, NFPA 70, NFPA 72, NFPA 76, NFPA 78, NFPA 79, NFPA 80, NFPA 85, NFPA 86, NFPA 87, NFPA 88, NFPA 91, NFPA 92, NFPA 93, NFPA 94, NFPA 95, NFPA 96, NFPA 97, NFPA 98, NFPA 99, NFPA 100, NFPA 101, NFPA 102, NFPA 103, NFPA 104, NFPA 105, NFPA 106, NFPA 107, NFPA 108, NFPA 109, NFPA 110, NFPA 111, NFPA 112, NFPA 113, NFPA 114, NFPA 115, NFPA 116, NFPA 117, NFPA 118, NFPA 119, NFPA 120, NFPA 121, NFPA 122, NFPA 123, NFPA 124, NFPA 125, NFPA 126, NFPA 127, NFPA 128, NFPA 129, NFPA 130, NFPA 131, NFPA 132, NFPA 133, NFPA 134, NFPA 135, NFPA 136, NFPA 137, NFPA 138, NFPA 139, NFPA 140, NFPA 141, NFPA 142, NFPA 143, NFPA 144, NFPA 145, NFPA 146, NFPA 147, NFPA 148, NFPA 149, NFPA 150, NFPA 151, NFPA 152, NFPA 153, NFPA 154, NFPA 155, NFPA 156, NFPA 157, NFPA 158, NFPA 159, NFPA 160, NFPA 161, NFPA 162, NFPA 163, NFPA 164, NFPA 165, NFPA 166, NFPA 167, NFPA 168, NFPA 169, NFPA 170, NFPA 171, NFPA 172, 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INSTALL DRAWING
 5.4L/6.8L IND C3

GENIE POWER SYSTEMS
 Waukesha, WI
 P.O. BOX 8
 WAUKESHA, WIS. 53187

INSTALLATION DRAWING

SCALE 1 = 20
 FILE NAME 0G1407.DWG
 SIZE B
 DWG NO. 0G1407
 REV *

GENERAL NOTES:

- 1) THE CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT PICK UP, DELIVERY TO SITE, ERECTION OF TOWER, AND CRANE SET. ALL COSTS INCLUDED.
- 2) THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND REMOVING EXISTING STRUCTORS OR UTILITIES THAT MIGHT BE LOCATED ON OR AROUND THE COMPOUND THAT COULD INTERFERE.
- 3) THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING LOCAL AUTHORITIES NECESSARY FOR INSPECTIONS IF REQUIRED. PLEASE PROVIDE AMPLIFIED NOTICE.
- 4) THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PERSONS RESPONSIBLE FOR ANY MATERIALS TESTING. PLEASE PROVIDE AMPLIFIED NOTICE.
- 5) THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE OWNER WITH PROGRESS REPORTS AND FINISH RESULTS PLEASE NOTIFY AAE OR OWNER IMMEDIATELY.
- 6) THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ADJOINING PROPERTY, AND REPAIRING OR REPLACING WHAT IS NECESSARY TO OWNERS APPROVAL.
- 7) THE CONTRACTOR IS TO VERIFY DIMENSIONS ON SITE PRIOR TO CONSTRUCTION STARTING, ANY PROBLEMS OR CHANGE FOUND CONTACT AAE OR OWNER TO VERIFY.
- 8) THE CONTRACTOR IS RESPONSIBLE FOR ANY TEMPORARY LIGHTING ON THE TOWER AND CONTACTING PROPER AUTHORITY IF ANY LIGHTING PROBLEMS OCCUR. ALL FINAL LIGHTING TO BE ADJUSTED 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 DRAINAGES AND PROMPING 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 FORMAT ONLY, 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 SIDES)
- PREPAREBLY ON DISK

"BEFORE YOU DIG"

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE UTILITY PROTECTION CENTER, PHONE 1-800-752-6902, WHICH HAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER 48 HOURS IN ADVANCE OF 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, ROADS AND PARKING AREAS TO BE REPAIRED OR REPLACED TO OWNERS SATISFACTION.
- 2) PREPARATION FOR FILL: REMOVE OF ALL DEBRIS, WEED AND UNSATURFACTORY SOIL. MATERIALS: TOPSOIL, VEGETATION AND HAZARDOUS MATERIALS FROM SURFACE OF GROUND PRIOR TO PLOWING, STRIPPING, GRADING FILLS OF BREAKING UP OF SLOPED SURFACES GREATER THAN 1 VERTICAL TO 4 HORIZONTAL. SO MATERIAL FOR FILL REJECTED WILL BE BOUND TO EXISTING SURFACE. WHEN REQUIRED, BREAK UP GROUND SURFACE TO DEPTH REQUIRED, AERATE, MOISTURE - CONDITION, OR PLUVERIZE SOIL AND COMPACT TO REQUIRED DENSITY.
- 3) BACK FILLING:
 - a) EXCAVATIONS SHALL BE CLEARED FROM STONES OR CLDS OVER 2 1/2" MAXIMUM DIAMETER AND COMPACTED TO A 95% STANDARD PROCTOR. USE A 90% PROCTOR IN GRASSED / LANDSCAPED AREAS WHERE REQUIRED.
 - b) SHALL BE APPROVED MATERIALS CONSISTING OF SANDY - CLAY, FINE SAND AND SOFT SHALE, EARTH OR LOAM. CONSULT WITH ENGINEER PRIOR TO FILL BEING ADDED.
- 4) ALL MATERIAL FOR FILL TO BE APPROVED BY ENGINEER AND ALL COMPACTING TEST TO BE TURNED OVER TO OWNER.
- 5) AFTER COMPLETION OF BELOW GRADE EXCAVATING, REPAIR OF EXISTING SURFACE OF EXCAVATION WITH 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 UNFROZEN SOIL AND BE FREE OF ANY LOOSE MATERIAL 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 MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION FILL WITH THE FINISHING CONC. PLEASE CONTACT OWNER & ENGINEER FOR RECOMMENDATIONS.
- 8) MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONC. OF THE SAME QUALITY SPECIFIED FOR THE EXCAVATION SHALL BE USED IF EXCAVATION EXCEEDS THE FOLLOWING DEPTHS:
 - 12" TO 24" - 95% STANDARD PROCTOR
 - 24" TO 36" - 98% STANDARD PROCTOR
 - 36" TO 48" - 99% STANDARD PROCTOR
 THE BOTTOM OF THE EXCAVATION, CRUSHED STONE MAY BE USED, STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS. PLEASE CONTACT ENGINEER FOR RECOMMENDATIONS.

NOTE: GENERAL CONTRACTOR MUST HAVE A MINIMUM 2 LABORERS ON SITE DURING ANY PHASE OF CONSTRUCTION FOR EMPLOYEE SAFETY PRECAUTIONS.

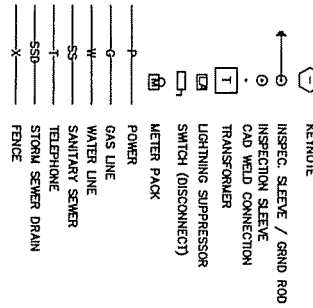
NOTE: THIS SCOPE OF WORK IS A BASIC OUTLINE FOR THE GENERAL CONTRACTOR TO FOLLOW AND DOES NOT EXCLUDE OTHER DUTIES ASSOCIATED WITH THE GENERAL CONTRACTORS RESPONSIBILITIES TO COMPLETE THE CELLULAR SITE. IT IS RECOMMENDED THAT THE CONTRACTOR CONSULT WITH THE DESIGN ENGINEER FOR THE DESIGN OF SPECIFICATIONS MANUAL IS NEEDED. 502-589-9427

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

- INSTALL ELECTRIC AND GROUND FIELD FOR COMPOUND.
- EXCAVATION TO COMPOUND TO INCLUDE WEED CONTROL, MAT.
- SITE TO HAVE PROPER DRAINAGE & EROSION CONTROL. (GROUNDED FORMATION)
- GC WILL BE RESPONSIBLE FOR ALL CRANE OPERATIONS IN ORDER TO SET PROPER BUILDING, COORDINATE BUILDING DELIVERY DATE THROUGH BUILDER'S 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 HOOR-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 TRASHCAN, 30 GALLON TRASH BAGS, BROOM, DUST PAN AND DROPMAT 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 CONTACT SCOTT ANDERSON (EVAPAR) 502-257-6315
- T1 CONDUIT WILL NEED TO BE PLACED FROM POLE TO BUILDING. (IF A MICROVAIVE DISH IS USED, THE T1 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 SEPERATE 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
HANGING ROCK
 2412 HANGING ROCK RD. LEITCHFIELD, KY. 42754

General Notes

DRAWN BY: **R. BECKER**

ISSUE DATE: **8-21-06**

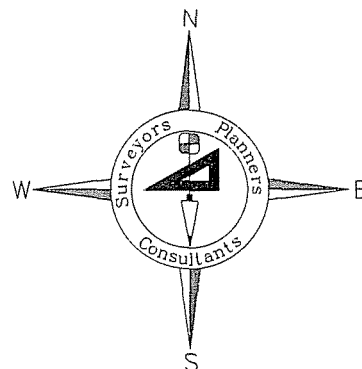
SCALE: **LISTED**

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 Grayson County, Kentucky

Hanging Rock Site
Grayson County, Kentucky

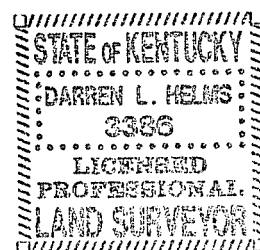
From the Grayson County Courthouse in Leitchfield, Kentucky: travel north on Kentucky Highway 259 for 2.9 miles to Hanging Rock Road; turn left onto Hanging Rock Road and travel northwest for 2.4 miles to an asphalt lane on the right at the top of a hill; turn right onto the lane and travel north for about 500 feet to two barns on the right; turn right and travel east, between the barns, for about 200 feet to the tower site in a pasture. The address of the site is 2408 Hanging Rock Road, Leitchfield, Kentucky 42754.

Darren L. Helms

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

JANUARY 23, 2001

Date



Site Name: Hanging Rock

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 13 day of July, 2006, by and between Clinton Armstrong and Dorothy Armstrong, husband and wife whose address is 2414 Hanging Rock Road, Leitchfield, KY 42754 (the "Optionor (s)") and Kentucky RSA #3 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) is the owner of certain real property located in Grayson 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: Hanging Rock

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 1-13-08

(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.

Site Name: Hanging Rock

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

Site Name: Hanging Rock

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: Hanging Rock

14. For the purposes of giving notice as permitted or required herein, the address of the Optionor(s) shall be: **2414 Hanging Rock Rd., Leitchfield, KY 42754**; 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 **Grayson** 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: Hanging Rock

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 Optionor(s).

3. The Optionee shall be entitled to use and occupy the Property for the purpose of erecting, maintaining and operating a communications tower and communications facilities thereon and for all such other uses as Optionee may, in its sole discretion, deem necessary in connection therewith.

4. The Optionor(s) shall be responsible for the payment of all real estate taxes which shall be assessed against the Property during the term of the lease. The Optionee shall pay all charges for heat, water, gas, electricity, sewer use charges and any other utility used or consumed on the Property. The Optionee shall, at its own cost and expense, maintain and keep in full force and effect during the term of the lease public liability insurance with coverage in the amount of at least one million dollars (\$1,000,000.00) per person for bodily injury, disease, or death and shall maintain property insurance on any property the Optionee located on the Property.

5. The Optionee may assign the lease. The Optionee may sublet all or part of the space on the tower or ground space.

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

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

[Remainder of Page Intentionally Left Blank]

Site Name: Hanging Rock

EXECUTION OF AGREEMENT(S)

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

Clinton Armstrong

Date: 7-13-06

Dorothy Armstrong

Date: 7-13-06

("Optionor(s)")

By: Clinton Armstrong and Dorothy Armstrong
Property Owner(s)

Ron Smith

Date: 7-19-06

("Optionee")

By: Ron Smith
Authorized Representative

STATE OF Kentucky
COUNTY OF Grayson

The foregoing instrument was acknowledged before me this 13th day of July, 2006,
by Clinton Armstrong to be his her free act and deed.

Marsha G. Johnson

NOTARY PUBLIC STATE AT LARGE

My commission expires: 12/15/07

Site Name: Hanging Rock

STATE OF Kentucky
COUNTY OF Grayson

The foregoing instrument was acknowledged before me this 13th day of July, 2006,
by Dorothy Armstrong to be his ~~his~~ her free act and deed.

Marsha S. Hendry

NOTARY PUBLIC STATE AT LARGE

My commission expires: 12/15/07

STATE OF KENTUCKY
COUNTY OF HARDIN

The foregoing instrument was acknowledged before me this 19 day of July,
2006, by **Ron Smith**, to be his free act and deed.

Juil Kiel

NOTARY PUBLIC STATE AT LARGE

My commission expires: 1-21-09

This instrument prepared by:

John Selent

John E. Selent

DINSMORE & SHOHL LLP

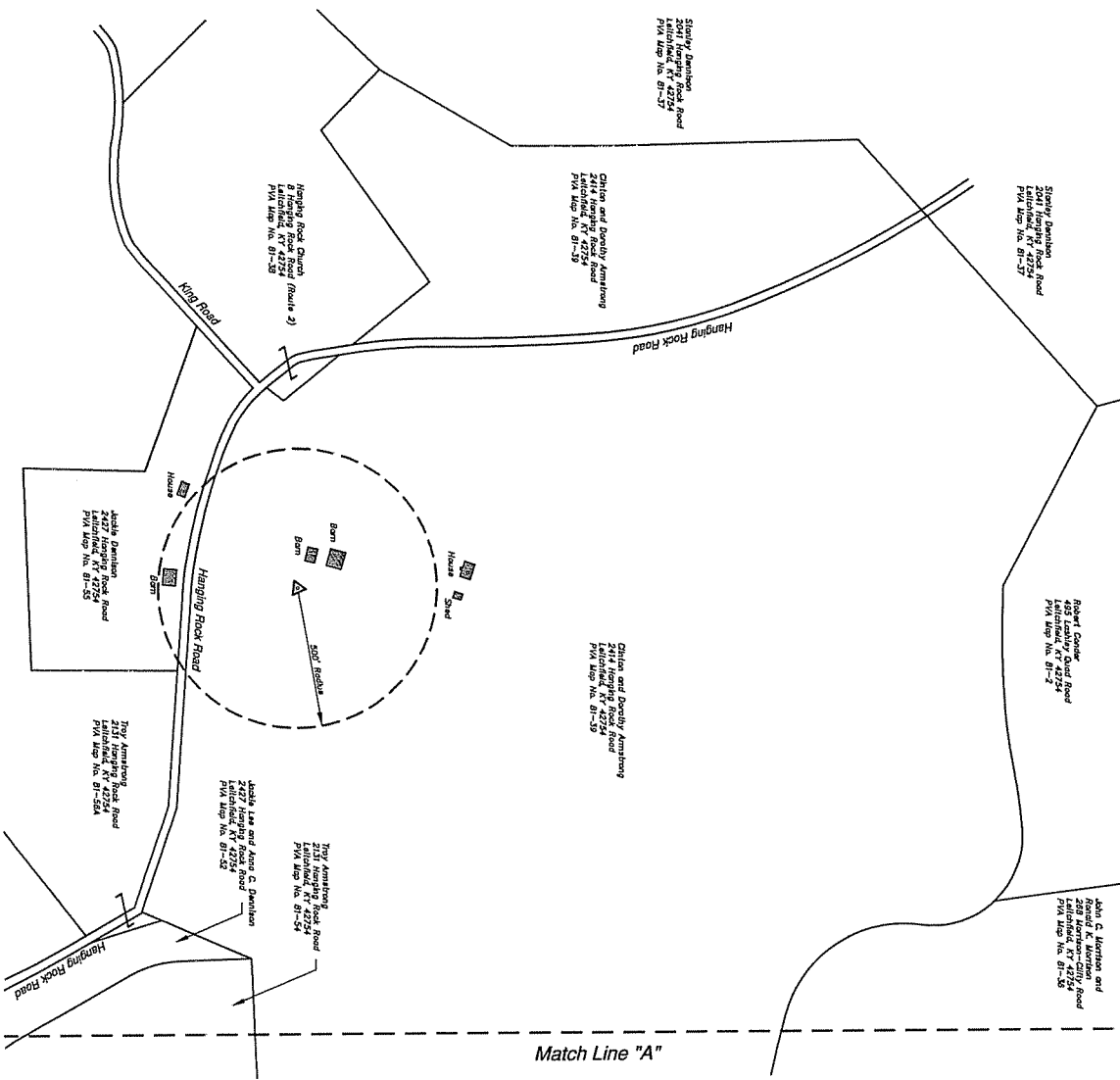
1400 PNC Plaza

500 West Jefferson Street

Louisville, KY 40202

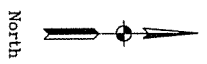
(502) 540-2300

Site: Hanging Rock
Grayson County, Kentucky
500-Foot Radius Map for Structures and Landowners



Match Line "A"

Reduced Copy



Note:
 The location of the boundaries shown are approximate, and they are based upon the most photographs on file in the office of the Property Valuation Administrator of Grayson County, Kentucky.

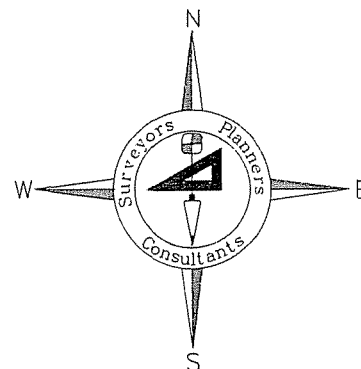
SURVEYOR'S CERTIFICATION
 I hereby certify that the information shown is correct to the best of my knowledge and it is in accordance with the records found in the office of the Property Valuation Administrator of Grayson County, Kentucky on May 7, 2007.
D. Helms
 DARNEN L. HELMS
 Surveyor
 JUN 23 2007

STATE OF KENTUCKY
 DARNEN L. HELMS
 3386
 LICENSED PROFESSIONAL
 LAND SURVEYOR

DATE 1-21-07 DRAWN BY K. Wicks CHECKED BY D.L. Helms	SHEET NO. 1	OF 2 SHEETS	FILE NO. Hanging rock radius map
	Bluegrass Cellular 2902 Ring Road Elizabethtown, Kentucky 42702		
500-Foot Radius Map 2408 Hanging Rock Road Leitchfield, Kentucky 42754		Landmark Surveying Co., Inc. 15 N.E. 3rd Street Washington, Indiana 47501 (812) 257-0950 Web Site: www.landmarksurveying.com Project No. 05-10-0215	

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
Hanging Rock Site
Grayson County, Kentucky

Troy Armstrong
2131 Hanging Rock Road
Leitchfield, KY 42754

Jackie Lee and Anna C. Dennison
2427 Hanging Rock Road
Leitchfield, KY 42754

Leonard Mattingly
959 Hardin Road
Leitchfield, KY 42754

Robert Conder
495 Lashley Quad Road
Leitchfield, KY 42754

Everett Hines
5115 Brandenburg Road
Leitchfield, KY 42754


Stanley Dennison
2041 Hanging Rock Road
Leitchfield, KY 42754

John C. Morrison and
Ronald K. Morrison
268 Morrison-Clifty Road
Leitchfield, KY 42754

Hanging Rock Church
8 Hanging Rock Road (Route 2)
Leitchfield, KY 42754

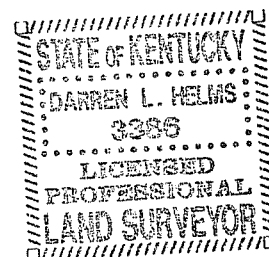
Jackie Dennison
2427 Hanging Rock Road
Leitchfield, KY 42754

Clinton and Dorothy Armstrong
2414 Hanging Rock Road
Leitchfield, KY 42754



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

JANUARY 23, 2007
Date



February 6, 2007

Troy Armstrong
2131 Hanging Rock Road
Leitchfield, KY 42754

Public Notice

Kentucky RSA #3 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 2408 Hanging Rock Road, Leitchfield, Kentucky, 42754. 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 2007-00055 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)

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"><input checked="" type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.<input checked="" type="checkbox"/> Print your name and address on the reverse so that we can return the card to you.<input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature <input checked="" type="checkbox"/> <i>Troy Armstrong</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <i>Troy Armstrong 2131 Hanging Rock Rd. Leitchfield, KY 42754</i>	B. Received by (Printed Name) <i>Troy Armstrong</i>	C. Date of Delivery <i>2-9-07</i>
2. Article Number (Transfer from service label)	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 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 2570 0001 5985 6321

February 6, 2007

Leonard Mattingly
959 Hardin Road
Leitchfield, KY 42754

Public Notice

Kentucky RSA #3 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 2408 Hanging Rock Road, Leitchfield, Kentucky, 42754. A map showing the location is attached.

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<ul style="list-style-type: none"><input type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.<input type="checkbox"/> Print your name and address on the reverse so that we can return the card to you.<input type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits.	<p>A. Signature <i>X Leonard Mattingly</i> <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Leonard Mattingly</i> C. Date of Delivery <i>Feb 8, 2007</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>1. Article Addressed to:</p> <p><i>Leonard Mattingly 959 Hardin Road Leitchfield, KY 42754</i></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 checked="" 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 2570 0001 5985 6338</p>

February 6, 2007

Everett Hines
5115 Brandenburg Road
Leitchfield, KY 42754

Public Notice

Kentucky RSA #3 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 2408 Hanging Rock Road, Leitchfield, Kentucky, 42754. 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 2007-00055 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)

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> <input checked="" type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. <input checked="" type="checkbox"/> Print your name and address on the reverse so that we can return the card to you. <input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> Agent <input type="checkbox"/> Addressee <i>Beatrice C. Watts</i></p> <p>B. Received by (Printed Name) <i>Beatrice C. Watts</i></p> <p>C. Date of Delivery <i>2-9</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>Everett Hines 5115 Brandenburg Rd. Leitchfield, KY 42754</i></p>	<p><i>P</i></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><u>7005 2570 0001 5985 6345</u></p>

February 6, 2007

John C. Morrison and Ronald K. Morrison
268 Morrison-Clifty Road
Leitchfield, KY 42754

Public Notice

Kentucky RSA #3 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 2408 Hanging Rock Road, Leitchfield, Kentucky, 42754. A map showing the location is attached.

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Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2007-00055 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)

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><input checked="" type="checkbox"/> Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.<input checked="" type="checkbox"/> Print your name and address on the reverse so that we can return the card to you.<input checked="" type="checkbox"/> Attach this card to the back of the mailpiece, or on the front if space permits.	<p>A. Signature X <i>Ronald Morrison</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery <i>Ronald Morrison</i> <i>2/9/07</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>John C. Morrison + Ronald K. Morrison 268 Morrison-Clifty Rd. Leitchfield, KY 42754</i></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 2570 0001 5985 6352</p>

February 6, 2007

Jackie Dennison
2427 Hanging Rock Road
Leitchfield, KY 42754

Public Notice

Kentucky RSA #3 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.

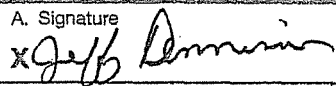
Bluegrass Cellular is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and a new cell facility to provide cellular telephone service. This facility will include a 240-foot tower to be located at 2408 Hanging Rock Road, Leitchfield, Kentucky, 42754. 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 2007-00055 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)

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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1. Article Addressed to: Jackie Dennison 2427 Hanging Rock Rd. Leitchfield, KY 42754	B. Received by (Printed Name) C. Date of Delivery Jeff Dennison 2-9
2. Article Number (Transfer from service label)	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 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 2570 0001 5985 6369	

February 6, 2007

Jackie Lee and Anna C. Dennison
2427 Hanging Rock Road
Leitchfield, KY 42754

Public Notice

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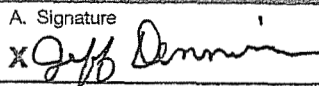
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1. Article Addressed to: <i>Jackie Lee + Anna C. Dennison 2427 Hanging Rock Rd. Leitchfield, KY 42754</i>	B. Received by (Printed Name) <i>Jeff Dennison</i> C. Date of Delivery <i>2-9</i>
2. Article Number (Transfer from service label)	D. Is delivery 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 type="checkbox"/> Return Receipt for Merchandise <input checked="" type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
	7005 2570 0001 5985 6376

February 6, 2007

Hanging Rock Church
8 Hanging Rock Road (Route 2)
Leitchfield, KY 42754

Public Notice

Kentucky RSA #3 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.

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Frankfort, Kentucky, 40602.

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1. Article Addressed to: Hanging Rock Church 8 Hanging Rock Rd. (Route 2) Leitchfield, Ky 42754	B. Received by (<i>Printed Name</i>) Clinton Armstrong	C. Date of Delivery Feb 8, 2007
2. Article Number (Transfer from service label)	D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes if YES, enter delivery address below: <input type="checkbox"/> No 2414 Hanging Rock Rd Clinton Armstrong 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. 4. Restricted Delivery? (<i>Extra Fee</i>) <input type="checkbox"/> Yes	
7005 2570 0001 5985 6406		

February 6, 2007

Stanley Dennison
2041 Hanging Rock Road
Leitchfield, KY 42754

Public Notice

Kentucky RSA #3 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.

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Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.**

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<p>1. Article Addressed to:</p> <p><i>Stanley Dennison 2041 Hanging Rock Rd. Leitchfield, KY 42754</i></p>	<p>3. Service Type</p> <p><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 2570 0001 5985 6390</p>

February 6, 2007

Robert Conder
495 Lashley Quad Road
Leitchfield, KY 42754

Public Notice

Kentucky RSA #3 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.

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

Please refer to case number 2007-00055 in your correspondence.

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<p>1. Article Addressed to:</p> <p><i>Robert Conder 495 Lashley Quad Rd. Leitchfield, KY 42754</i></p>	<p>3. Service Type</p> <p><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 2570 0001 5985 6383</p>

February 6, 2007

Clinton and Dorothy Armstrong
2414 Hanging Rock Road
Leitchfield, KY 42754

Public Notice

Kentucky RSA #3 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.

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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 2007-00055 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)

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<p>1. Article Addressed to:</p> <p><i>Clinton + Dorothy Armstrong 2414 Hanging Rock Rd. Leitchfield, KY 42754</i></p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No</p> <p>3. Service Type</p> <p><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 2570 0001 5985 6413</p>

Dinsmore & Shohl LLP
ATTORNEYS

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

February 6, 2007

Via Certified Mail

Grayson County Judge Executive
Courthouse
10 Public Square
Leitchfield, KY 42754

RE: Public Notice - Public Service Commission of Kentucky
Case No. 2007-00055

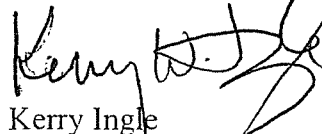
Kentucky RSA #3 Cellular General Partnership is applying to the Public Service Commission of Kentucky (the Commission) for a Certificate of Public Convenience and Necessity to propose construction and operation for a new facility to provide cellular radio telecommunications service in rural service area (RSA) #3 in Grayson County. The facility will include a 240 ft. tower and an equipment shelter to be located at 2408 Hanging Rock Road, Leitchfield, Kentucky, 42754. 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 2007-00055 in your correspondence.

Very truly yours,

DINSMORE & SHOHL LLP



Kerry Ingle
Paralegal

enclosure

KWI
1347752v2
21963-16

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:

Grayson County Judge Executive
 Courthouse
 10 Public Square
 Leitchfield, KY 42754

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 x Maida Alukanda Agent Addressee

B. Received by (Printed Name) Freida Alexander C. Date of Delivery 2/8/04

D. Is delivery address different from item 1? Yes No
 If YES, enter delivery address below:

3. Service Type
 Certified Mail Express Mail
 Registered Return Receipt for Merchandise
 Insured Mail C.O.D.

4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Transfer from service label) 7005 2570 0001 5985 6314

PUBLIC NOTICE

Manitowish USA #3 Cellular
General Partnership proposes
to construct a cellular
communications

TOWER

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

Manitowish USA #3 Cellular
General Partnership
11100 Hwy
PO Box 100
Manitowish, WI 54221
715-426-1111

Please refer to P.S.C.

Case #2007-00055

in your correspondence.

Grayson County News-Gazette

P. O. Box 305 • 307 W. Market Street • Leitchfield, Ky. 42755

Phone 270-259-9622 Fax 270-259-5537

Toll Free Outside Grayson County 1-877-515-NEWS

STATE OF KENTUCKY
COUNTY OF GRAYSON

I, Gary White, Publisher of the GRAYSON COUNTY NEWS-GAZETTE newspaper of general circulation, published at Leitchfield, Kentucky, do solemnly swear that from my personal knowledge and references to the files of the said publication an advertisement for Dinsmore & Shohl LLP was inserted on 2-12-07 & 2-15-07.

Gary White
Gary White
Publisher

Subscribed and sworn before me this 15th day of Feb 2007.

Beverly Sue White
Notary Public

My commission expires: 2/8/09.

II WORK For You!!!

LEITCHFIELD on Essie Lane -

Drive-in basement
garage, bonus room,
2 Bedroom, 1 1/2
bath, luxurious town-
homes with washer
& dryer hook-up,
stove, refrigerator,
dishwasher
furnished. Insulated
doors & windows.
On KU. \$495
Monthly. Call (270)
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61947,2/15-19)

2 Bedroom House
Trailer for rent, \$225
mo. + deposit. Stove
& refrig. furnished.
2874 Watershed Rd.
Call 879-9128.
(30415/61915 TFN)

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3 Bedroom house,
yard, S. Patterson
St., \$450 + deposit
moves you in. Call
(270) 230-5640 or
(270) 763-9754.
(pd.62006,2/1,2/8,
2/15,2/22)

For Rent: 2
Bedroom, 1 1/2 bath
Duplex in Leitchfield,
pretty nice. Call
(270) 766-1915.
(31089/64430 TFN)

For Rent: Apartment
on Mill Street. Call
230-9550. (30214/
63326 Th.TFN)

(Continued on
Page 13)



FOR SALE: 3 NEW HOMES
1 home in Maple Leaf Estates for
\$115,000; and 2 homes in Grant
Ridge Subd. starting at \$96,000.
Why not put your tax refund towards
a new home. Call (270) 589-1056.

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5x10 - 20.00

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NOTICE

Kentucky RSA #3 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
Kentucky (Hanging Rock Cell Site). The
facility is a 240 foot tower and an equipment
shelter to be located at 2408 Hanging Rock
Road, Leitchfield, Grayson County, Kentucky
42754. 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. 2007-00055 in your correspondence.

You Save More At GAIN'S AUTO SALES

06 Ford Freestar SE \$13,900
20K Miles, Extra Clean!!

06 Ford Five Hundred SE \$13,995
25K Miles, Like New!!

06 Ford Taurus SE \$11,995
15K Miles, Loaded & Sharp!!

06 Toyota Corolla LE \$13,995
20K Miles, Gas Saver!!

06 Chevrolet Impala LT \$13,900
29K Miles, Loaded & Sharp!!

06 Chevy Malibu LT \$11,900
19K Miles, Loaded & Gas Saver!

Dr.,
Equal
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hfield
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(30639/61932 TFN)

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Homes for rent. 259-
3856 or 589-0617.
(31459/23440 TFN)

54
COMMERCIAL

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Space. \$500 month.
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62091,2/8-12***Int.)

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Space For Lease.**
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Jewelry Box, 1599
Elizabethtown Rd.
Call 259-9065.
Now available.
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FOR LAND**

Wanted - Good
Hunting ground -
Rough wooded land
and other ground -
50 acres to 1,000
acres and up. Call
Marion 270-422-
2444. (30487/56840
TFN)

1-5 acres tracts
Kefauver Road.
4 miles from
Leitchfield. County
water, owner
finance. Land Store
800-264-0399.
(30488 TFN)

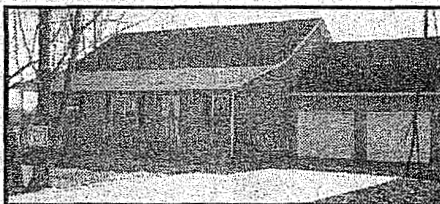
Tracts in Big Clifty
area. County water,
okay for mobile
home. Owner
financing. Call the
Landstore
1-800-264-0399.
(30488 TFN)

R & R INCOME TAX INC.

**801 Brandenburg Road
Leitchfield, KY 42754**

**(270) 259-4953
Fax: (270) 259-8141**

**Hours:
Monday - Friday
8 a.m. to 8 p.m.
Saturday 8 a.m. - 3 p.m.**



FOR SALE: 3 NEW HOMES
1 home in Maple Leaf Estates for
\$115,000; and 2 homes in Grant
Ridge Subd. starting at \$96,000.

Why not put your tax refund towards

REPRESENTATIVE

For Sale: 2
**Bedroom older
Mobile Home and
Lot in Clarkson** on
KU utilities and City
sewer. Owner
Financing. \$1,000
down and \$240 per
month. Call (270)
589-8387 or (270)
589-8389. (pd.
62026,2/8-12)

For Sale: **Mobile
Home 14x60 in
good condition,**
\$4,000. Call 242-
6662. (pd.62012,

(or can get some
from a relative)
**you can keep your
cash! ZERO DOWN**
financing available
on brand new
singles, doubles,
triples and
modulars! Limited
or no credit OK
because we own
the bank!
**Country Squire
Homes Toll Free
1-888-280-8898**
(Mention this ad and
get a free washer &
dryer or Jacuzzi jets!)

NOTICE

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Commission of Kentucky for a Certificate of
Public Convenience and Necessity to construct
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Post Office Box 615, 211 Sower Boulevard,
Frankfort, Kentucky 40602. Please refer to
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**NURSE AIDE CLASSES
STARTING!!**

**GRAYSON MANOR
NURSING FACILITY**

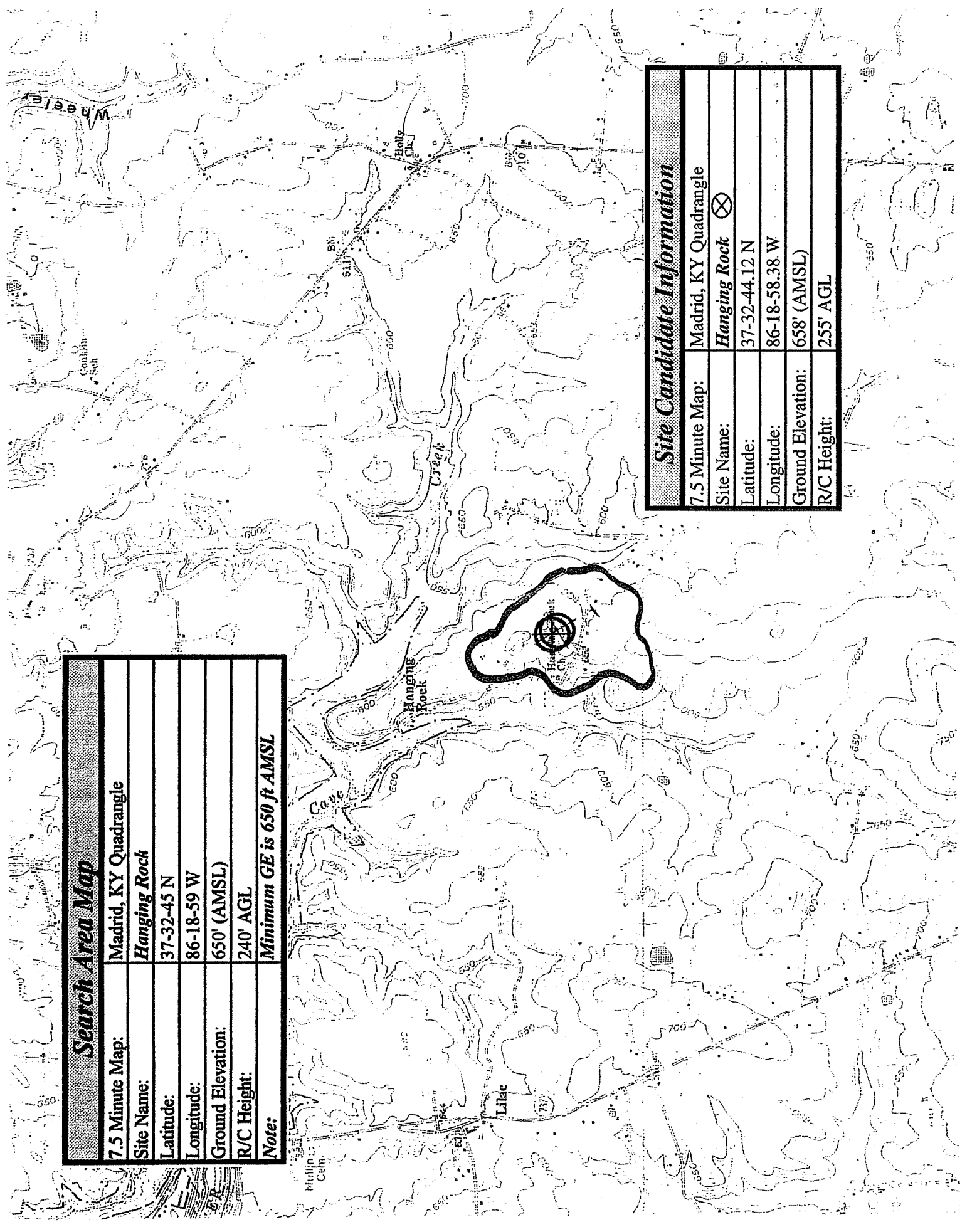
**Will be accepting applications
for State Registered Nurse Aide
Class. Full-time and Part-time
Positions Available.**

**Benefits include... Insurance,
Vacation, 401K Plan,
Personal Days.**

**If interested, please apply at
Grayson Manor Nursing Facility
505 William Thomason Byway**

Search Area Map	
7.5 Minute Map:	Madrid, KY Quadrangle
Site Name:	Hangin Rock
Latitude:	37-32-45 N
Longitude:	86-18-59 W
Ground Elevation:	650' (AMSL)
R/C Height:	240' AGL
Note:	Minimum GE is 650 ft AMSL

Site Candidate Information	
7.5 Minute Map:	Madrid, KY Quadrangle
Site Name:	Hangin Rock ⊗
Latitude:	37-32-44.12 N
Longitude:	86-18-58.38 W
Ground Elevation:	658' (AMSL)
R/C Height:	255' AGL



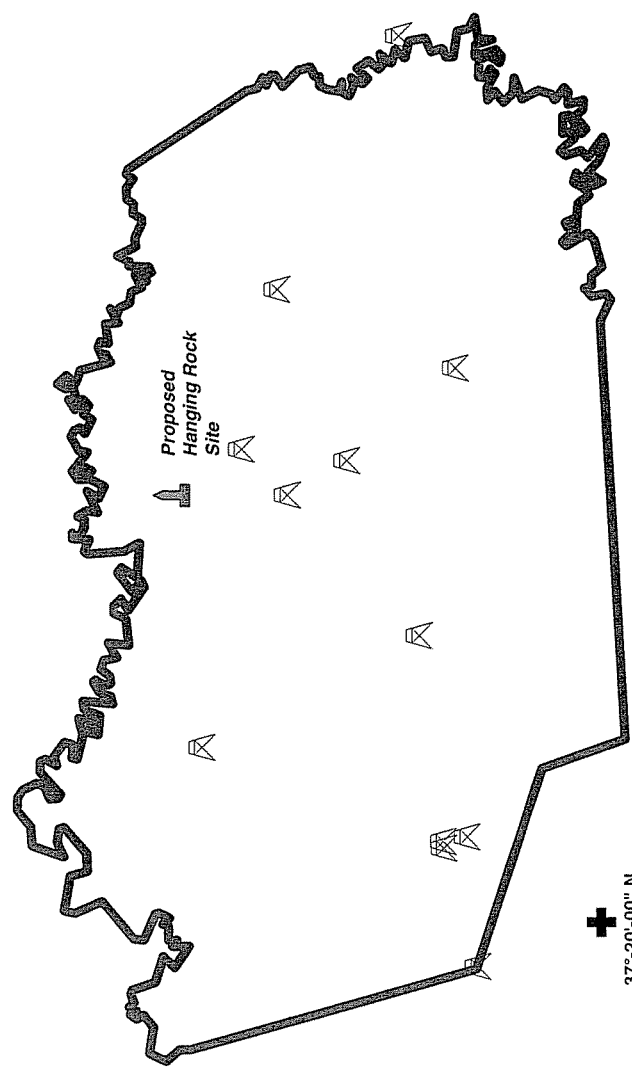


+

37°-40'-00" N
86°-10'-00" W

+

37°-20'-00" N
86°-35'-00" W



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

Prepared By: LINGS Engineering 2/7/2007

*Information on Towers Registered with the FCC
in Grayson County and 1/2 Mile Area Outside of the County Boundary*

FCC Tower Reg. No.	North Latitude	West Longitude	City, State	Tower Owner
1002421	37-29-18.6	86-18-58.4	Leitchfield, KY	NEW CINGULAR WIRELESS PCS, LLC
1043035	37-24-41	86-32-12	Caneyville, KY	KENTUCKY RSA 3 CELLULAR GENERAL PARTNERSHIP DBA = BLUEGRASS CELLULAR
1043037	37-27-33	86-17-41	Leitchfield, KY	KENTUCKY RSA 3 CELLULAR GENERAL PARTNERSHIP DBA = BLUEGRASS CELLULAR
1043268	37-30-40	86-17-15	Leitchfield, KY	HERITAGE MEDIA OF KENTUCKY INC
1043431	37-24-42.6	86-31-56.6	Caneyville, KY	NEW CINGULAR WIRELESS PCS, LLC
1044618	37-23-59	86-31-47	Caneyville, KY	KENTUCKY UTILITIES COMPANY
1052138	37-25-58	86-01-49	Millerstown, KY	FM 90.1, INC.
1217206	37-29-36	86-11-16.5	Clarkson, KY	Crown Communication Inc.
1217214	37-25-24.5	86-24-14.9	Millwood, KY	Crown Communication Inc.
1217219	37-23-39.9	86-36-37.8	Morgantown, KY	Crown Communication Inc.
1244902	37-31-51.2	86-28-23.9	Short Creek, KY	NEW CINGULAR WIRELESS PCS, LLC
1250554	37-24-17.9	86-14-14.4	Clarkson, KY	Tennessee Valley Authority