

COMMONWEALTH OF KENTUCKY

BEFORE THE PUBLIC SERVICE COMMISSION

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PUBLIC SERVICE
COMMISSION

In the Matter of:

APPLICATION OF CUMBERLAND CELLULAR
PARTNERSHIP FOR ISSUANCE OF A CERTIFICATE
OF PUBLIC CONVENIENCE AND NECESSITY TO
CONSTRUCT A CELL SITE (KNOB LICK) IN RURAL
SERVICE AREA #5 (METCALFE) OF THE COMMONWEALTH
OF KENTUCKY

CASE NO. 2007-00016

APPLICATION FOR A CERTIFICATE
OF PUBLIC CONVENIENCE AND NECESSITY (KNOB LICK)

Cumberland Cellular Partnership ("Cumberland Cellular"), 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 Knob Lick cell site in and for rural service area ("RSA") #5 of the Commonwealth of Kentucky, namely the counties of Barren, Monroe, Metcalfe, Adair, Cumberland, Russell, Clinton, Wayne, McCreary and Hart, Kentucky.

1. As required by 807 KAR 5:001 Sections 8(1) and (3), and 807 KAR 5:063, Cumberland Cellular states that it is a Kentucky limited liability partnership whose full name and post office address are: Cumberland Cellular Partnership, 2902 Ring Road, Elizabethtown, Kentucky, 42701.

2. Pursuant to 807 KAR § 1 (1)(b), a copy of the applicant's applications to the Federal Aviation Administration and Kentucky Airport Zoning Commission are Exhibit "A". Written authorizations from these agencies will be supplied to the Commission upon their approval.

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

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

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

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

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

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

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

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

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

12. Pursuant to 807 KAR 5:063 § 1 (1)(l), applicant's legal counsel hereby affirms that every person who owns property within 500 feet of the proposed tower has been: (i) notified by certified mail, return receipt requested, of the proposed construction; (ii) given the commission docket number under which the application will be processed; and (iii) informed of his right to request intervention.

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

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

15. Pursuant to 807 KAR 5:063 § 1 (1)(n), applicant's legal counsel hereby affirms that the Office of the Metcalfe 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 Metcalfe 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 "***Cumberland Cellular 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 "***Cumberland Cellular Partnership proposes to construct a telecommunications tower near this site,***" including the addresses and telephone numbers of the applicant and the Kentucky Public Service Commission, has been posted on the public road nearest the site.

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

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

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

21. Pursuant to 807 KAR 5:063 §1(1)(s), Cumberland Cellular 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. Cumberland Cellular has attempted to co-locate on towers designed to host multiple wireless service providers' facilities or existing structures, such as a telecommunications tower, or another suitable structure capable of supporting the utility's facilities.

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

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

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

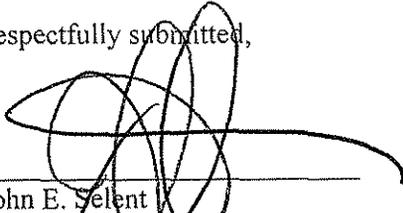
25. Correspondence and communication with regard to this application should be addressed to:

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

WHEREFORE, Cumberland Cellular Partnership requests the Commission to enter an order:

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

Respectfully submitted,



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

LUKAS, NACE, GUTIERREZ & SACHS

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1650 TYSONS BOULEVARD, SUITE 1500
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703 584 8678 • 703 584 8696 FAX

WWW.FCCLAW.COM

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DAVID A. LAFURIA
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STEVEN M. CHERNOFF*

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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

November 29, 2006

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 (Knob Lick) near Knob Lick, Kentucky. The Structure, including top-mounted antennas will have an overall height of 255 feet Above Ground Level.

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

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

Sincerely,



Leila Rezanavaz

Consulting Engineer

Enclosures

CC: Scott McCloud

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

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 ° 4 ' 25 . 03 "

10. Longitude: 85 ° 42 ' 47 . 23 "

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

12. Nearest Kentucky City Knob Lick County Metcalfe

13. Nearest Kentucky public use or Military airport: Glasgow Municipal Airport

14. Distance from #13 to Structure: 13.6 Miles

15. Direction from #13 to Structure: ENE

16. Site Elevation (AMSL): 808 Feet

17. Total Structure Height (AGL): 255 Feet

18. Overall Height (#16 + #17) (AMSL): 1063 Feet

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

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:

243 Harold Poynter Road
Knob Lick, KY 42154

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 1/5/2007 End 1/10/2007

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 2006-ASO-6858-OE

21. Description of Proposal:

Structure: Tower with top-mounted antennas for overall height of 255'.

Maximum ERP: 200 Watts

Frequencies: Cellular Band B

22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 7460-1) been filed with the Federal Aviation Administration? [] No [X] Yes, When 11/28/06

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 11/29/2006
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

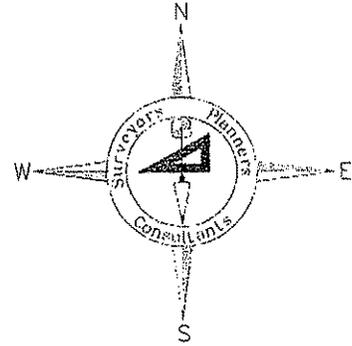
Close Print



Knob Lick

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

November 21, 2006

Designation: Knob Lick
Site ID No.: Not Available
Tower Type: Proposed Self-Support Tower
Location: 243 Harold Poynter Road, Knob Lick, Kentucky 42154

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

Latitude:	37 degrees 04 minutes 25.03 seconds North	(NAD 1983)
Longitude:	85 degrees 42 minutes 47.23 seconds West	(NAD 1983)
Ground Elevation:	807.8 feet or 246.2 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 November 10, 2006 using the National Geodetic Survey monument "GASCON RM 1" 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 3 software.

Landmark Surveying Co., Inc.


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



Notice of Proposed Construction or Alteration (7460-1)

Project Name: BLUGR-000054711-06

Sponsor: Blugrass Cellular, Inc.

Details for Case : Knob Lick

Show Project Summary

Case Status

ASN: 2006-ASO-6858-OE

Date Accepted: 11/28/2006

Status: Accepted

Date Determined:

Letters: None

Construction / Alteration Information

Notice Of: Construction

Structure Summary

Structure Name: Knob Lick

Duration: Permanent

Structure Type: Antenna Tower

if Temporary : Months: Days:

Other :

Work Schedule - Start: 01/05/2007

FCC Number:

Work Schedule - End: 01/10/2007

Prior ASN:

State Filing: Filed with State

Structure Details

Latitude: 37° 4' 25.03" N

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

Longitude: 85° 42' 47.23" W

Horizontal Datum: NAD83

Site Elevation (SE): 808 (nearest foot)

Specific Frequencies

Structure Height (AGL): 255 (nearest foot)

Marking/Lighting: Dual-red and medium intensity

Other :

Nearest City: Knob Lick

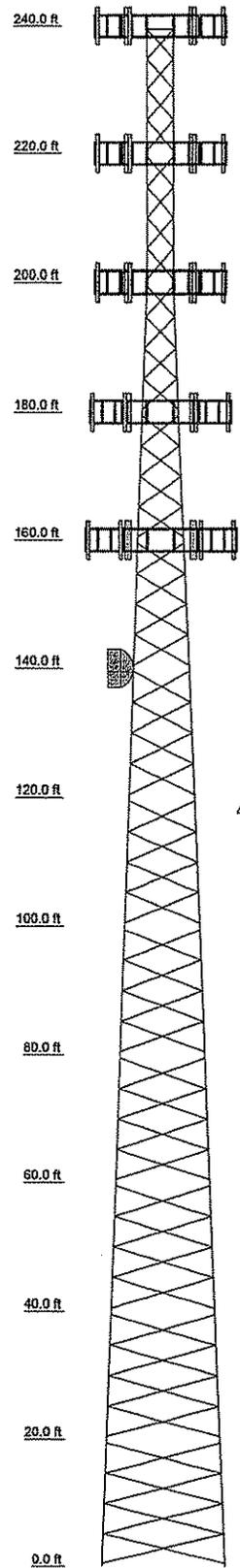
Nearest State: Kentucky

Traverseway: No Traverseway

Description of Location: Site is Located at:
243 Harold Poynter Road
Knob Lick, KY 42154

Description of Proposal: Tower including top-mounted antennas has an overall height of 255' AGL.

Section	T11	T10	T9	T8	T7	T6	T5	T4	T3	T2	T1
Legs	SR 4	SR 3 3/4	SR 3 1/2	SR 3 1/4	SR 3 1/4	SR 2 3/4	SR 2 1/2	SR 2 1/4	SR 2 1/4	SR 1 3/4	
Leg Grade	L3 1/2x3 1/2x1/4	L3x3x1/4	L3x3x1/4	L2 1/2x2 1/2x3/16	A572-50	L1 3/4x1 3/4x3/16					
Diagonals											
Diagonal Grade											
Top Girts											
Face Width (ft)	17.5	16	14.5	13	11.5	10	8.5	7	5.5		
# Panels @ (ft)											
Weight (K)	32.5	5.2	3.7	3.0	2.8	2.5	2.0	1.9	1.4	1.2	0.8



DESIGNED APPURTENANCE LOADING

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

MATERIAL STRENGTH

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

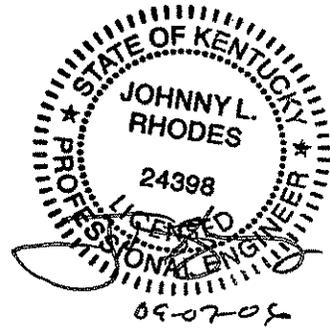
TOWER DESIGN NOTES

1. Tower is located in Metcalfe County, Kentucky.
2. Tower designed for Exposure B to the TIA-222-G Standard.
3. Tower designed for a 90 mph basic wind in accordance with the TIA-222-G Standard.
4. Deflections are based upon a 60 mph wind.
5. Tower designed as Structure Class I
6. Tower designed as Topo Category 3 w/ Crest Height of 100 ft
7. In no case shall more than (6) lines be exposed to wind. Feedlines may be stacked in up to (2) rows on the inside and outside face of the tower.
8. Final Design 09/07/06. JLR

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

AXIAL 53 K
 MOMENT 6694 kip-ft
 SHEAR 54 K

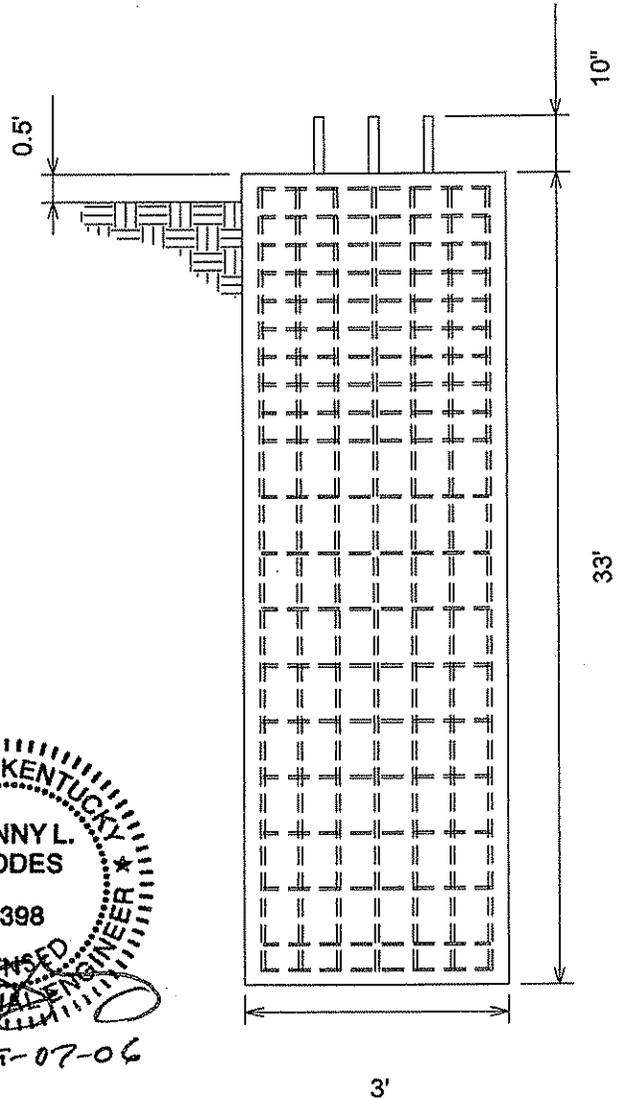
TORQUE 7 kip-ft
 REACTIONS - 90 mph WIND



Eastpointe Engineering Group, LLC 4020 Tull Ave. Muskogee, OK 74403 Phone: 918.683.2169 FAX: 918.682.7618	Job: EII Job #2382-Knob Lick
	Project: 240' SST/Metcalfe County, KY
	Client: Bluegrass Cellular Drawn by: Johnny L. Rhodes, P.E. App'd:
	Code: TIA-222-G Date: 09/07/06 Scale: NT:
	Path: 7:\Deshler\Drawings\Jobs\2200-2382\2382\Tall Tower Design\240sst.edt Dwg No. E-

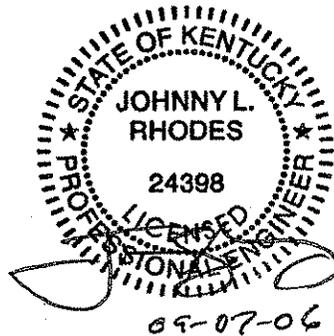
CAISSON DESIGN

Vertical Bars	(12) #9 bars, 32.5' long
Ties	#5 bars @ 6" c/c for the first 6.5' then 12" c/c thereafter



General Notes

1. Concrete shall be placed in accordance with ACI318-02, latest revision.
2. Concrete shall have a minimum 28 day compressive strength of 4000 PSI.
3. Rebar to conform to ASTM A615 grade 60.
4. Rebar used for ties may be A615 grade 40.
5. All rebar to have a minimum of 3" clear cover.
6. All exposed concrete corners to have 3/4" chamfer.
7. Bottom and side surfaces to rest on undisturbed soil.
8. Contractor shall be responsible to review and follow all recommendations of the geotechnical report.



Supplemental Notes

Soil values obtained from Terracon soils report #57067404G Dated 08/18/06
 Use (6) 1 1/2" Grade 50 Anchor bolts with 60" embedment.

EASTPOINTE ENGINEERING GROUP, LLC 4020 Tull Ave. Muskogee, OK 74403--Phone 918.683.2169--Fax:918.682.7618	Client: Bluegrass Cellular	
	Site: Knob Lick	
	Job: 2382	Drawn by: JLR
	Scale: NTS	Date: 09/07/06

GEOTECHNICAL ENGINEERING REPORT
KNOB LICK TELECOMMUNICATION TOWER
125 HAROLD POYNTER ROAD
KNOB LICK, KENTUCKY

TERRACON PROJECT NO. 57067404G
August 18, 2006

Prepared For:

BLUEGRASS CELLULAR
Elizabethtown, Kentucky

Prepared by:

Terracon
Louisville, Kentucky

Terracon

August 18, 2006

Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42702

Attention: Mr. Doug Updegraff

**Re: Geotechnical Engineering Report
Knob Lick Telecommunication Tower
125 Harold Poynter Road
Knob Lick, Kentucky
Terracon Project No. 57067404G**

Terracon

Consulting Engineers & Scientists

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

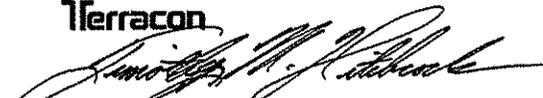
Dear Mr. Updegraff:

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.

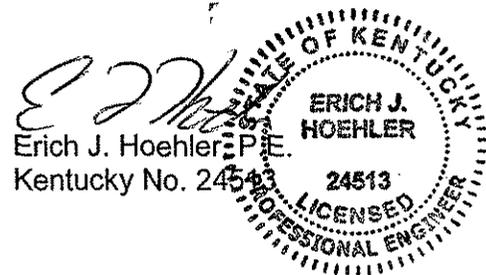
Sincerely,
Terracon



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



Timothy G. LaGrow, P.E.
Regional Manager



n:\projects\2006\towers\57067404KnobLick\geo57067404G.doc

Attachments: Geotechnical Engineering Report

Copies: (4) Addressee

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Unified Soil Classification System	

GEOTECHNICAL ENGINEERING REPORT

**KNOB LICK TELECOMMUNICATION TOWER
125 HAROLD POYNTER ROAD
KNOB LICK, KENTUCKY
TERRACON PROJECT NO. 57067404G
August 18, 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 40 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. At the time of the site visit, the subject site consisted of an approximate 100- by 100-foot parcel located in a hayfield south of Harold Poynter Road. The site is bound by hayfields in all directions with a residence beyond to the north and a fence line to the south and west. Based on site observations the site had approximately 12-feet of elevational relief from south to north across the tower compound. Based on the proposed tower construction and the existing site grades, cuts and/or fills of up to eight feet may 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 40 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 820 feet at the time of the exploration. The location 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 30 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 3 inches of topsoil, our boring encountered lean clay (CL) to a depth of about 3½ feet below existing grade. The lean clay exhibited a stiff consistency based on an SPT N-value of 10 blows per foot (bpf). Fat clay (CH) was encountered below the lean clay to an auger refusal depth of about 30 feet below existing grade. The fat clay generally exhibited a stiff to very stiff consistency based on most SPT N-values ranging from 8 to 20 bpf. A SPT N-value in excess of 50 bpf was encountered at a depth of about 23½ feet below existing grade. This value is likely due to rock fragments suspended within the soil matrix below a depth of about 18 feet.

Below a depth of about 30 feet, rock coring techniques were used to advance the borehole. The core samples recovered consisted of medium to coarse grained, slightly to moderately weathered, thick to thinly bedded and hard limestone. The bedrock at the site appears to be relatively continuous based on a core recovery 98 percent. The quality of the rock is rated at fair based on a RQD value of 68 percent. Considering the height of the tower and the quality of the bedrock, coring operations were terminated at a depth of 40 feet below grade.

4.2 Site Geology

A review of the Geologic Map of Sulphur Well Quadrangle published by the United States Geological Survey (USGS) indicates that the site is underlain by St. Louis Limestone of the Carboniferous age. This limestone is described as medium-gray to dark-gray and contains nodules of gray chert and corals and is typically about 220 feet thick.

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

4.3 Groundwater Conditions

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

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

5.0 ENGINEERING RECOMMENDATIONS

Based on the encountered subsurface conditions, the tower can be constructed on a drilled pier foundation. Due to the noted sinkhole activity in the area and the obvious karst topography on the available maps, we do not recommend using a mat foundation without further exploration. 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

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

Table 2 - Drilled Pier Foundation Design Parameters

Depth * (feet)	Description **	Allowable Skin Friction (psf)	Allowable End Bearing Pressure (psf)	Allowable Passive Pressure (psf)	Internal Angle of Friction (Degree)	Cohesion (psf)	Lateral Subgrade Modulus (pci)	Strain, & ₅₀ (in/in)
0 - 3	Topsoil and Lean Clay	Ignore	Ignore	Ignore	-	-	Ignore	Ignore
3 - 30	Fat Clay	425****	Ignore	1,500	0	1,500	125	0.007
30 - 40	Limestone	5,000***	50,000	10,000***	0	100,000***	3,000	0.00001

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

** A total unit weight of 120 and 150 pcf can be estimated for the clay and limestone, respectively.

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

**** Uplift only if drilled pier is founded on limestone.

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 founded on limestone designed using the above parameters is not anticipated to exceed ½ 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 and or bedrock depths, the drawings should instruct the contractor to notify the engineer if subsurface conditions significantly different than encountered in the boring are disclosed during drilled pier installation. Under these circumstances, it may be necessary to adjust the overall length of the pier. To facilitate these adjustments and assure that the pier is embedded in suitable materials, it is recommended that a Terracon representative observe the drilled pier excavation.

If a bedrock socket is required, it is recommended that a minimum pier length and minimum rock socket length be stated on the design drawings. Bedrock was encountered in the boring below a depth of about 30 feet, but could vary between tower legs or if the tower is moved from the location of the boring. If the tower center is moved from the planned location, Terracon should be notified to review the recommendations and determine whether an additional boring is required. To facilitate pier length adjustments that may be necessary because of variable rock conditions, it is recommended that a Terracon representative observe the drilled pier excavation.

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

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

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 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 lean clay above a depth of about 3½ feet is considered suitable for re-use as fill. The fat clays below a depth of 3½ feet are not considered suitable for re-use as structural fill. Fill should not contain frozen material and it should not be placed on a frozen subgrade.

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

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

5.5 Resistivity Analysis

Resistivity of the subsurface soils was measured at the site using a Nilsson Model 400 soil resistivity meter. The Wenner Vertical Profiling Method was used. With this array, potential electrodes are centered on a traverse line between the current electrodes and an equal "A" spacing between electrodes is maintained. Resistivity measurements were taken along 4 traverses located along the perimeter and diagonally across the staked tower compound.

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.

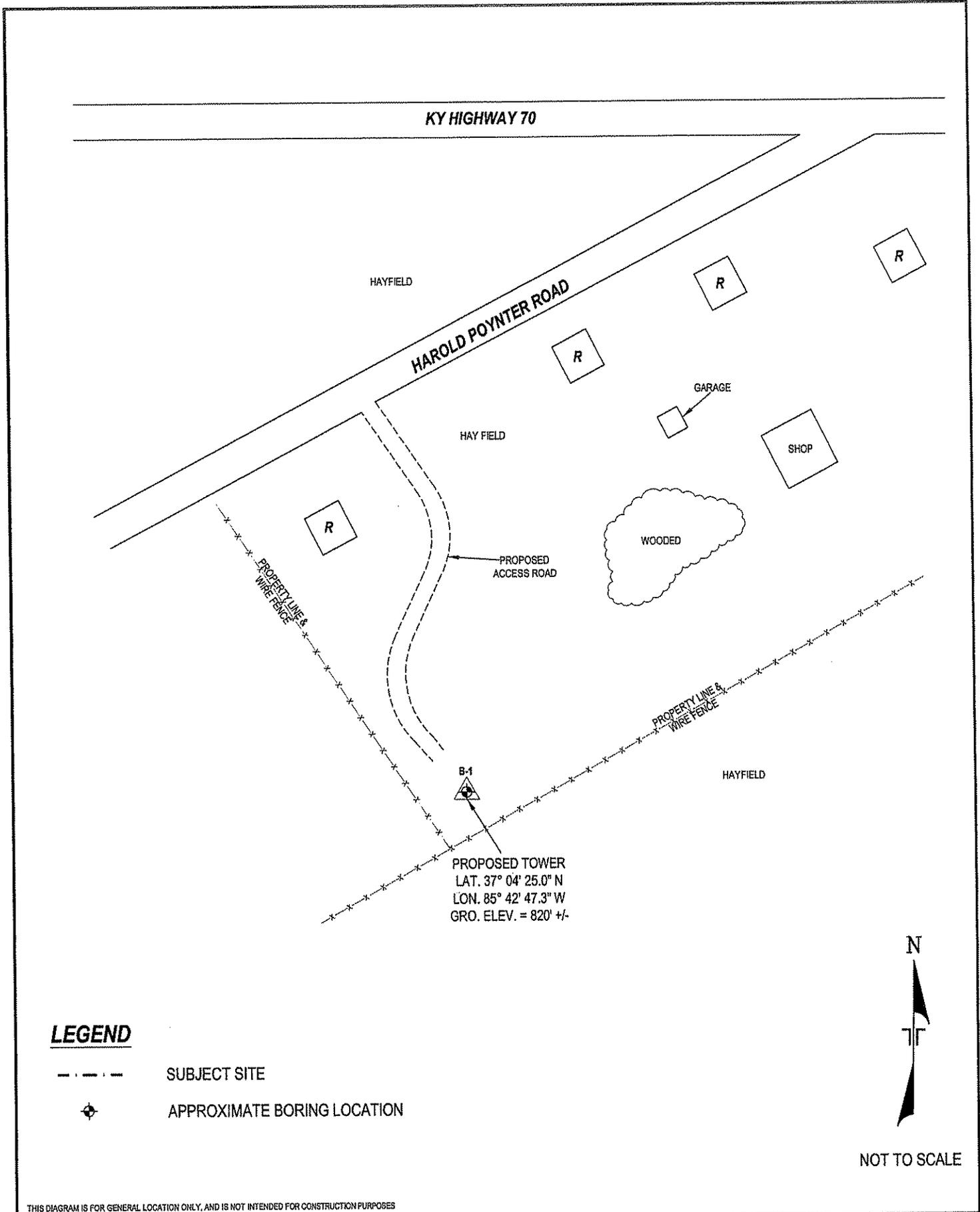
This report has been prepared for the exclusive use of our client for specific application to the project discussed and has been prepared in accordance with generally accepted geotechnical engineering practices. No warranties, either express or implied, are intended or made. Site safety, excavation support, 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

**Knob Lick Telecommunication Tower
Knob Lick, Kentucky
Terracon Project No.: 57067404G
August 18, 2006**

Terracon

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



LEGEND

- - - - - SUBJECT SITE
- ⊕ APPROXIMATE BORING LOCATION



NOT TO SCALE

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

Project Mngr: TMH	Project No. 57067366G	<p>4545 Bishop Lane, Suite 101 Louisville, KY 40218 (407) 843-1311 (407) 843-1317</p>	BORING LOCATION DIAGRAM GEOTECHNICAL EXPLORATION KNOB LICK TELECOMMUNICATIONS TOWER HAROLD POYNTER ROAD KNOB LICK, KENTUCKY	FIG. No. 1
Drawn By: RRK	Scale: NOT TO SCALE			
Checked By: MRF/TMH	File No. 57067366G-1			
Approved By: TMH	Date: AUGUST 2006			



Project: Knob Lick
 Project No.: 57067404G
 Performed By: Jenny Guest-Cougar
 Checked By: _____

Soil Resistivity

At-Grade Measurements (equal rod spacing)

Location	Depth of Interest (feet)	Electrode Spacing from Center (feet)		Resistance (ohms)		Resistivity (ohm-cm)
		Inner	Outer	Dial Reading	Range Switch	
A-A'	5	2.5	7.5	1.8	10.0	17235
	10	5	15	10.8	1.0	20682
	15	7.5	22.5	7.8	1.0	22406
	20	10	30	5.6	1.0	21448
	30	15	45	3.8	1.0	21831
	40	20	60	3.1	1.0	23746
B-B'	5	2.5	7.5	1.8	10.0	17235
	10	5	15	9.8	1.0	18767
	15	7.5	22.5	7.4	1.0	21257
	20	10	30	5.2	1.0	19916
	30	15	45	3.7	1.0	21257
	40	20	60	3.5	1.0	26810
C-C'	5	2.5	7.5	1.7	10.0	16278
	10	5	15	9.5	1.0	18193
	15	7.5	22.5	6.5	1.0	18671
	20	10	30	4.8	1.0	18384
	30	15	45	3.7	1.0	21257
	40	20	60	3.4	1.00	26044
D-D'	5	2.5	7.5	3.6	10.0	34470
	10	5	15	9.9	1.0	18959
	15	7.5	22.5	6.9	1.0	19820
	20	10	30	5.8	1.0	22214
	30	15	45	3.6	1.0	20682
	40	20	60	2.8	1.00	21448

Resistivity (ohm-cm) = $2\pi a^2 R \cdot 30.48$
 R = resistivity (dial reading * range switch)
 a = electrode spacing

Equipment Usage: Nilsson Soil Resistance Meter - Model 400

Additional Notes: A-A' south end of site running east to west; B-B' north end of site running east to west; C-C' west edge of site running north to south; D-D' diagonally through center

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+

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

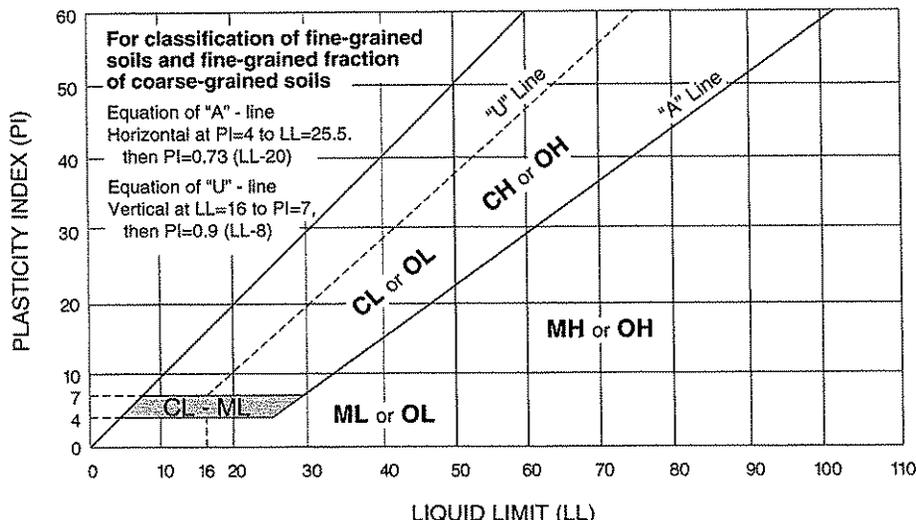
^MIf soil contains $\geq 30\%$ plus No. 200, predominantly gravel, add "gravelly" to group name.

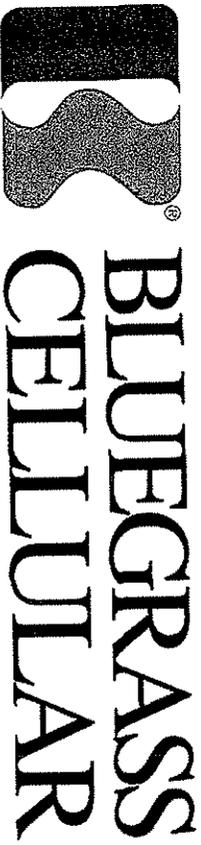
^N $PI \geq 4$ and plots on or above "A" line.

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

^P PI plots on or above "A" line.

^Q PI plots below "A" line.





APPROVAL SIGNATURES

BLUEGRASS CELLULAR
CONSTRUCTION SUPERVISOR: _____ DATE: _____

CITY REPRESENTATIVE: _____ DATE: _____

TITLE: _____ DATE: _____

PROPERTY OWNER/OWNERS: _____ DATE: _____

TOWER OWNER/OWNERS: _____ DATE: _____

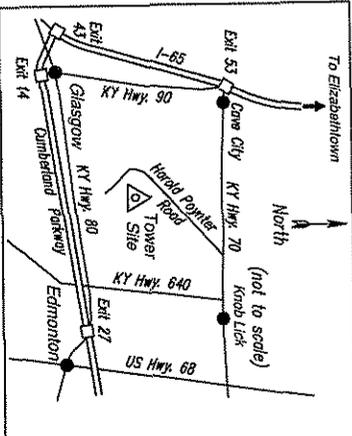
SITE NAME: KNOB LICK

**911 ADDRESS: 243 HAROLD POYNTER RD.
KNOB LICK, KY. 42154**

COUNTY: METCALFE

**TOWER LATITUDE & LONGITUDE
N 37° 04' 25.03" W 85° 42' 47.23"**

SHEET NO.	DESCRIPTION	REVISION
1	TITLE SHEET	
2	GENERAL NOTES	
3	FOUNDATION DETAIL	
4	GROUNDING DETAIL	
5	ELECTRIC PLAN - GROUNDING	
6	ELECTRIC PLAN - ELECTRICAL	
7	STRUCTURAL DETAIL	
8	FRIDGE DETAIL	
9	ANTENNA DETAIL 1	
10	ANTENNA DETAIL 2	
11	ANTENNA DETAIL 3	
12	ANTENNA DETAIL 4	
13	ANTENNA DETAIL 5	
14	ANTENNA DETAIL 6	
15	ANTENNA DETAIL 7	
16	ANTENNA DETAIL 8	
17	ANTENNA DETAIL 9	
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100	ANTENNA DETAIL 92	

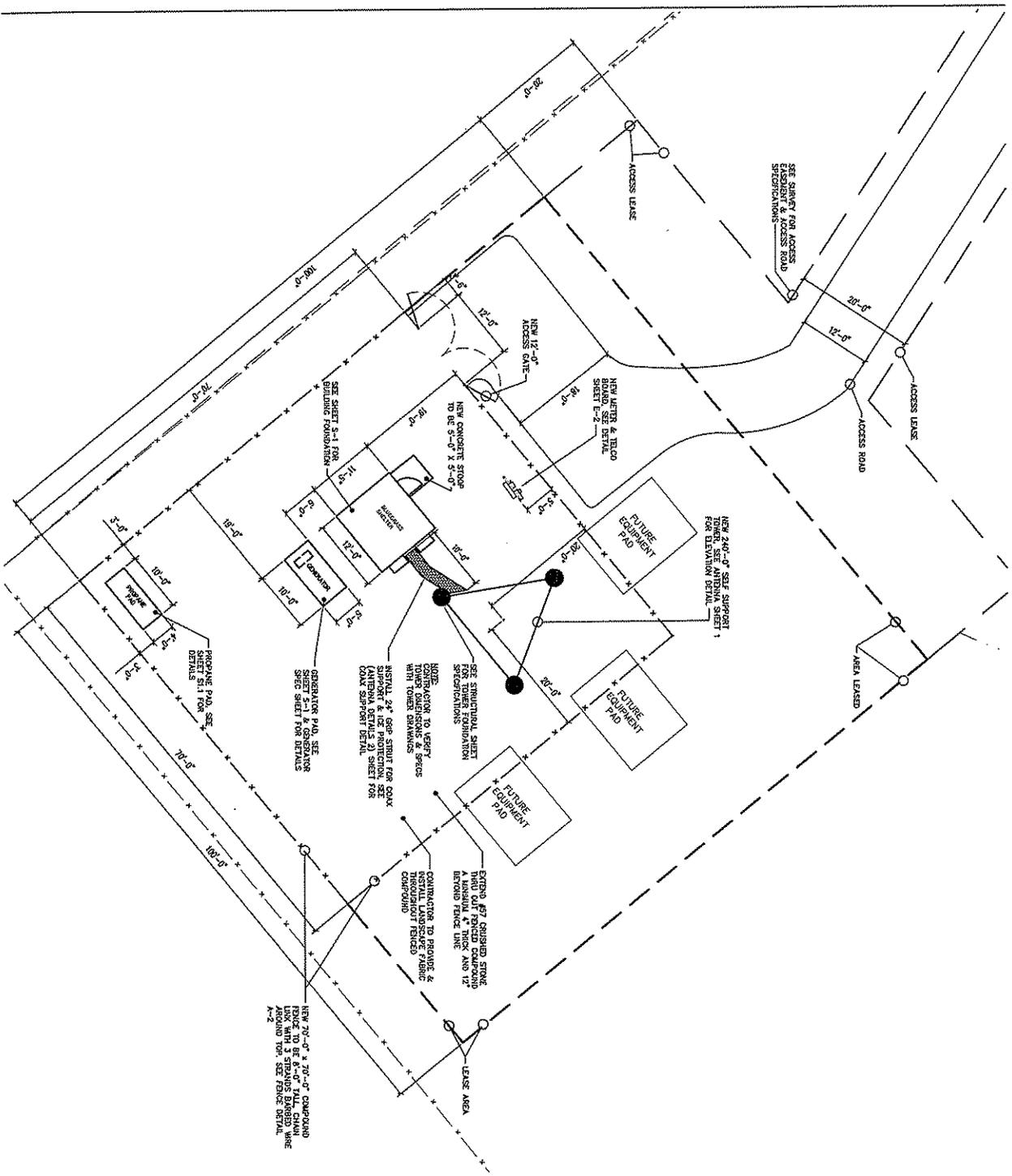


VICINITY MAP
NOT TO SCALE

DIRECTIONS TO SITE

From Elizabethtown, Kentucky, travel South on I-65 to Exit 53 and Kentucky Highway 70 near Cave City, turn left onto Kentucky Highway 70 and travel South for 18.9 miles to Harold Poynter Road on the South or right side of the highway, turn right onto Harold Poynter Road and travel Southwesterly for 0.25 miles to the tower access road on the left, turn left onto the access road and travel Southerly for about 700 feet to the tower site.

SITE DATA	
PROPERTY OWNER:	COX ALUM FIBER & PAPERSON ANN HEAD
CONTRACT NO.:	270 585-4444
PHONE NO.:	(270) 585-4444
TOWER OWNER:	BLUEGRASS CELLULAR
PHONE NO.:	(270) 788-0339
POWER COMPANY:	FARMERS RECOC
PHONE NO.:	(270) 681-2181
TELEPHONE COMPANY:	SUNN CENTRAL, RTC
PHONE NO.:	(270) 678-2111
BLUEGRASS CONSTRUCTION SUPERVISOR:	HAROLD WATERS
PHONE NO.:	(270)262-7000



- GENERAL NOTES:**
- 1) EQUIPMENT PICK-UP AND DELIVERY TO SITE FROM BLUEGRASS CELLULAR STAGING FACILITY TO BE THE CONTRACTOR'S RESPONSIBILITY, INCLUDING CRANE SET, AND ALL COST INCURRED.
 - 2) FOR BUILDING AND ALL CONCRETE PAD DETAILS REFER TO STRUCTURALS AND SHEET S1.1
 - 3) ALL CONCRETE TO HAVE SPECIFIED COATED SEALANT PER STRUCTURAL RECOMMENDATIONS.
 - 4) ANY DAMAGE DUE TO CONSTRUCTION, TO BE REPAIRED OR REPLACED TO ORIGINAL CONDITION. (SUBJECT TO BLUEGRASS CELLULAR'S APPROVAL.)
 - 5) ANY DAMAGE OF NATURAL SURROUNDINGS, INCLUDING BUT NOT LIMITED TO, GRASS, TREES, LANDSCAPING, ETC., TO BE REPAIRED OR REPLACED TO ORIGINAL CONDITION AT BLUEGRASS CELLULAR'S APPROVAL.
 - 6) ROADWAYS TO BE GRADED SMOOTH AND EVEN, REMOVING ALL POTHOLES. ROADS TO HAVE PROPER DRAINAGE AND RUNOFF PER BLUEGRASS CELLULAR'S APPROVAL.
 - 7) ANY RELOCATION OF EXISTING UTILITIES TO BE DONE IN ACCORDANCE WITH LOCAL CODES AND RECOMMENDATIONS, CONSULTING ALL UTILITY COMPANIES INVOLVED FOR APPROVAL AND SPECIFICATIONS REQUIRED.
 - 8) FOR GRADING DETAILS, SEE GENERAL NOTESHEET
 - 9) CONTRACTOR TO FIELD VERIFY ALL TOWER DIMENSIONS WITH TOWER MANUFACTURER PRIOR TO JOB BIDDING OR START OF ANY CONSTRUCTION
 - 10) CONTRACTOR RESPONSIBLE FOR APPLYING FOR SERVICE TO SITE AND PAYING ANY FEES REQUIRED FOR PERMITS, HOOKUP, ETC.

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

DRAWN BY:	R. BECKER
ISSUE DATE:	7-17-06
SCALE:	LISTED
SHEET NUMBER:	A-1

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
KNOB LICK
8603 N. JACKSON HWY. MUMFORDVILLE, KY. 42765

NO.	DATE	REVISION



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. (EXTENSION OF BUILDING)

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

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

ALL TRASH AND REFUSE IS TO BE PROPERLY DISPOSED OF.

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

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

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

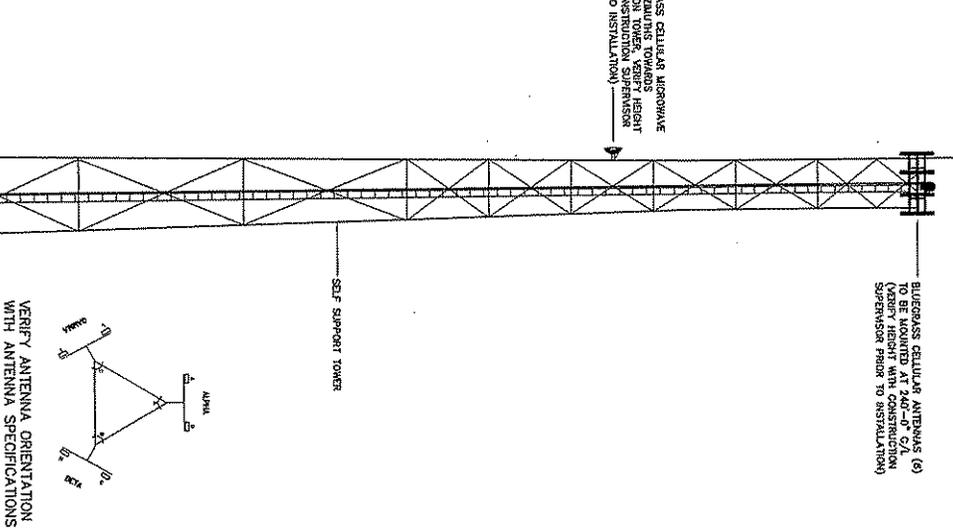
ICE BRIDGE TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. (Additional Ice Bridge if needed)

TRAPEZE KIT TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR.

CONTRACTOR TO INSTALL GPS BRACKET

BLUEGRASS CELLULAR ANTENNAS (6) TO BE MOUNTED AT 240'-0" C/L TO BE MOUNTED AT 240'-0" C/L. (VERIFY ANTENNA MOUNTING SPECIFICATIONS PRIOR TO INSTALLATION)

BLUEGRASS CELLULAR MICROWAVE DISH (MOUNTING TOWARDS UPRIGHT END OF TOWER) TO BE MOUNTED PRIOR TO INSTALLATION



SELF SUPPORT TOWER ELEVATION (TYPICAL)

TOWER HEIGHT & TYPE

240'-0" SELF SUPPORT TOWER

ANTENNA SPECS

TYPE	SIZE	NUMBER	AZIMUTH	MOUNTING HEIGHT
ANTENNA (PRIMARY)	AP13-890-9500 ADT-XP	6	0°, 80°, 275°	240'-0" C/L CELLULAR ANTENNAS
ANTENNA (SECONDARY)				

ANTENNA MOUNTING HARDWARE SPECS

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

ANTENNA TRANSMISSION LINES SPECS

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

DISH SPECS

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

DISH MOUNT SPECS

TYPE	SIZE	NUMBER
MOUNT #1		
MOUNT #2		

DISH TRANSMISSION LINES

TYPE	SIZE	NUMBER
TRANSMISSION LINE #1	EW 90 Elliptical	1
TRANSMISSION LINE #2		

ANTENNA SYNOPSIS

- * ANTENNAS TO HAVE A 2°E X.Y.Z
- * ANTENNA FREQUENCY 890.00 -- 890.00
- * MICROWAVE TO EDMONTON

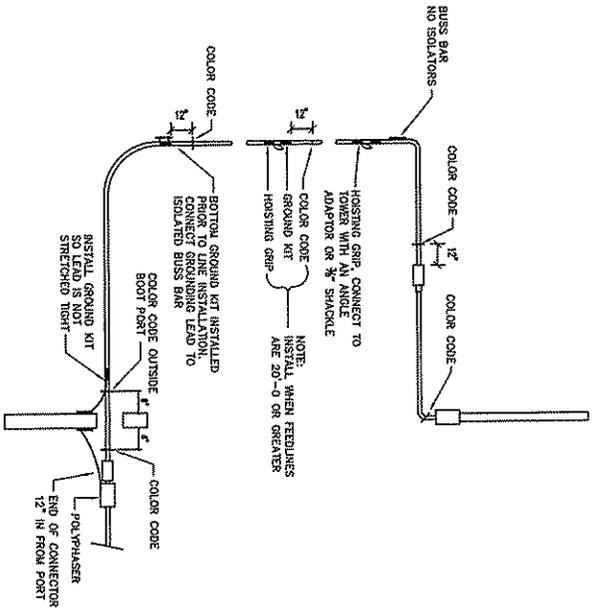


NO.	DATE	REVISION

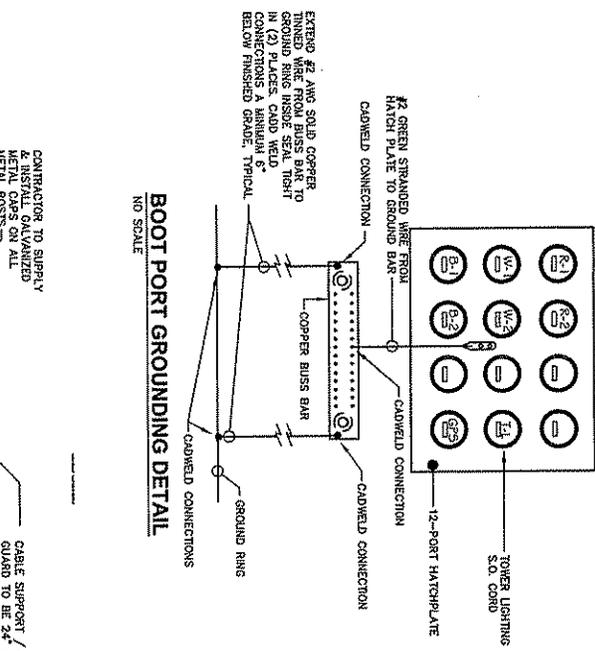
BLUEGRASS CELLULAR, INC.
 STANDARD CELLULAR SITE
KNOB LICK
 5693 N. JACKSON HWY. MURFORDVILLE, KY. 42765

DRAWN BY: R. BECKER
 ISSUE DATE: 7-17-06
 SCALE: LISTED

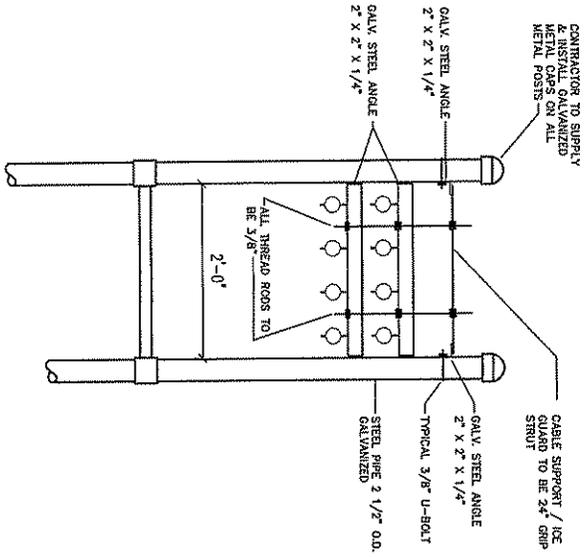
SHEET NUMBER: 1
 ANTENNA DETAILS



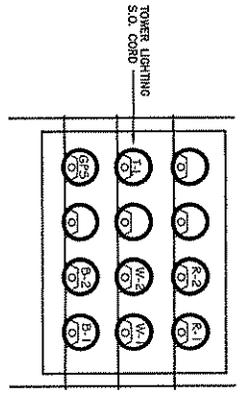
COLOR CODING DETAIL
NO SCALE



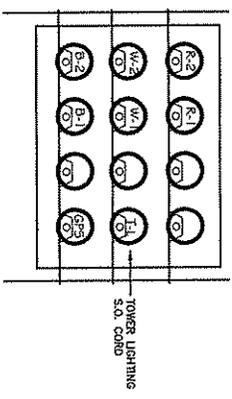
BOOT PORT GROUNDING DETAIL
NO SCALE



ICE BRIDGE / COAX SUPPORT DETAIL
NO SCALE

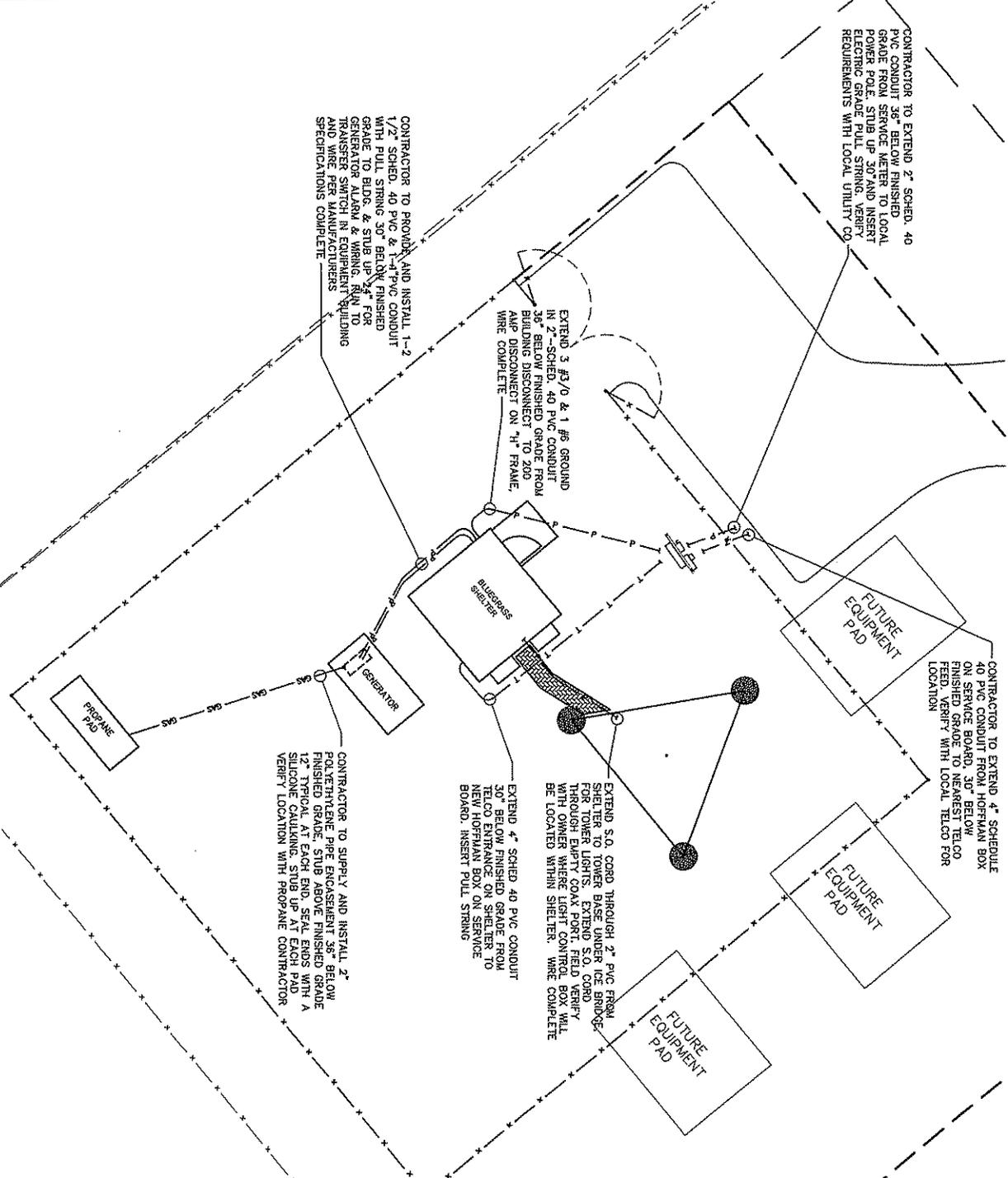


COAX ENTRY DETAIL POWER SIDE (VIEW FROM INSIDE SHELTER)
NO SCALE



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

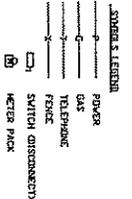
REVISION NO. DATE 	DRAWN BY: R. BECKER	BLUEGRASS CELLULAR, INC. STANDARD CELLULAR SITE Knob Lick 5603 N. JACKSON HWY. MUMFORDVILLE, KY. 42765	
	ISSUE DATE: 7-17-06		
	SCALE: LISTED		
	SHEET NUMBER: 2		



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 COMPANIONS 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 6" MINIMUM. GROUNDING CONFIGURATION TO BE IN PARALLEL.
- 6) CONTACT POINTS FOR GROUNDING TO BE CLEANED OF ANY RUST, PAINT, DIRT, ETC. TO CREATE A GOOD BOND FOR CONDUCTOR. AREA THAT HAS BEEN CLEANED TO BE RESEALED TO PREVENT RUSTING.
- 7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.
- 8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL BONDING, STAINLESS STEEL CONNECTORS ARE REQUIRED AT EACH CONNECTING POINT USING LOCK WASHERS.
- 9) CONTRACTOR RESPONSIBLE FOR SETTING 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 NEG. TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS.

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



SITE PLAN-ELECTRICAL

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

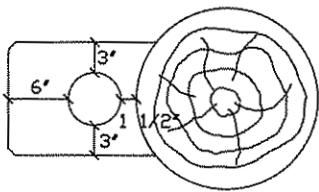
DRAWN BY: R. BECKER	ISSUE DATE: 7-17-06	SCALE: LISTED	NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
KNOB LICK

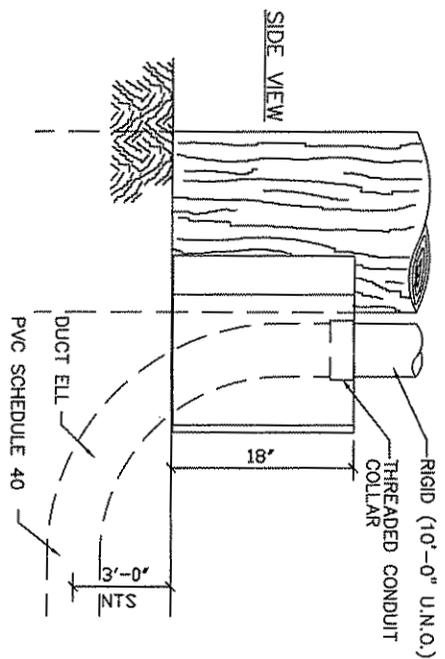
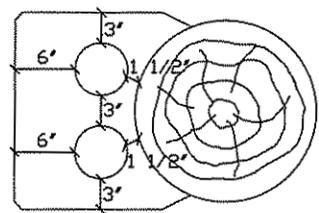
8603 N. JACKSON HWY. MURFORDVILLE, KY. 42765



6410 MERCURY DRIVE LOUISVILLE, KY. 40061
[302] 502-0427 Fax: [502] 502-1256

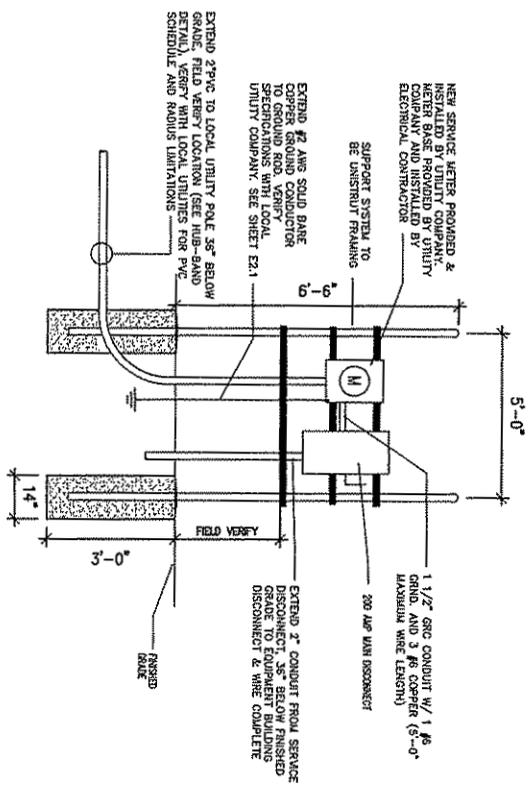


TOP VIEW

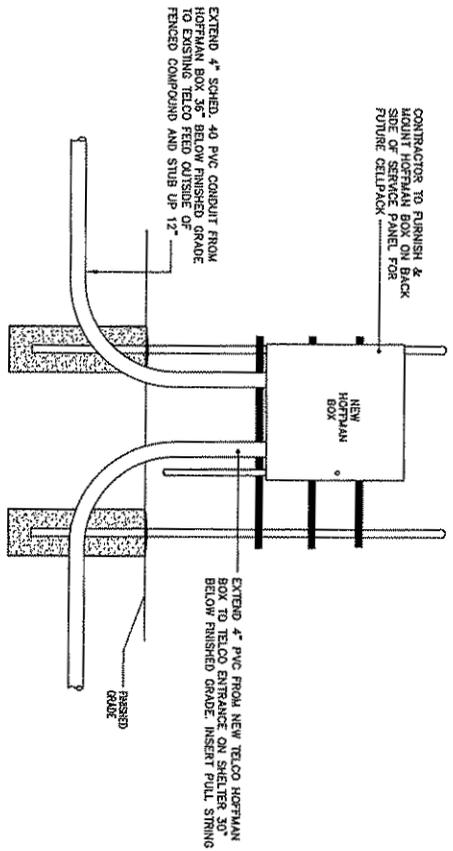


SIDE VIEW

HUB-BAND DETAIL
NO SCALE

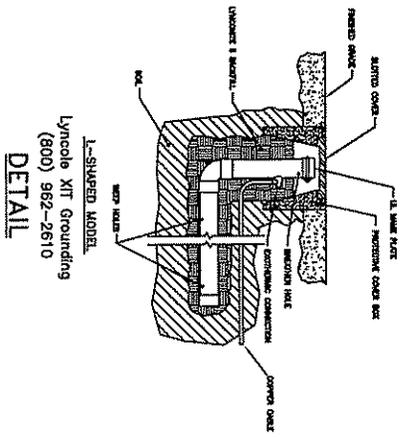


SERVICE BOARD DETAIL
NO SCALE

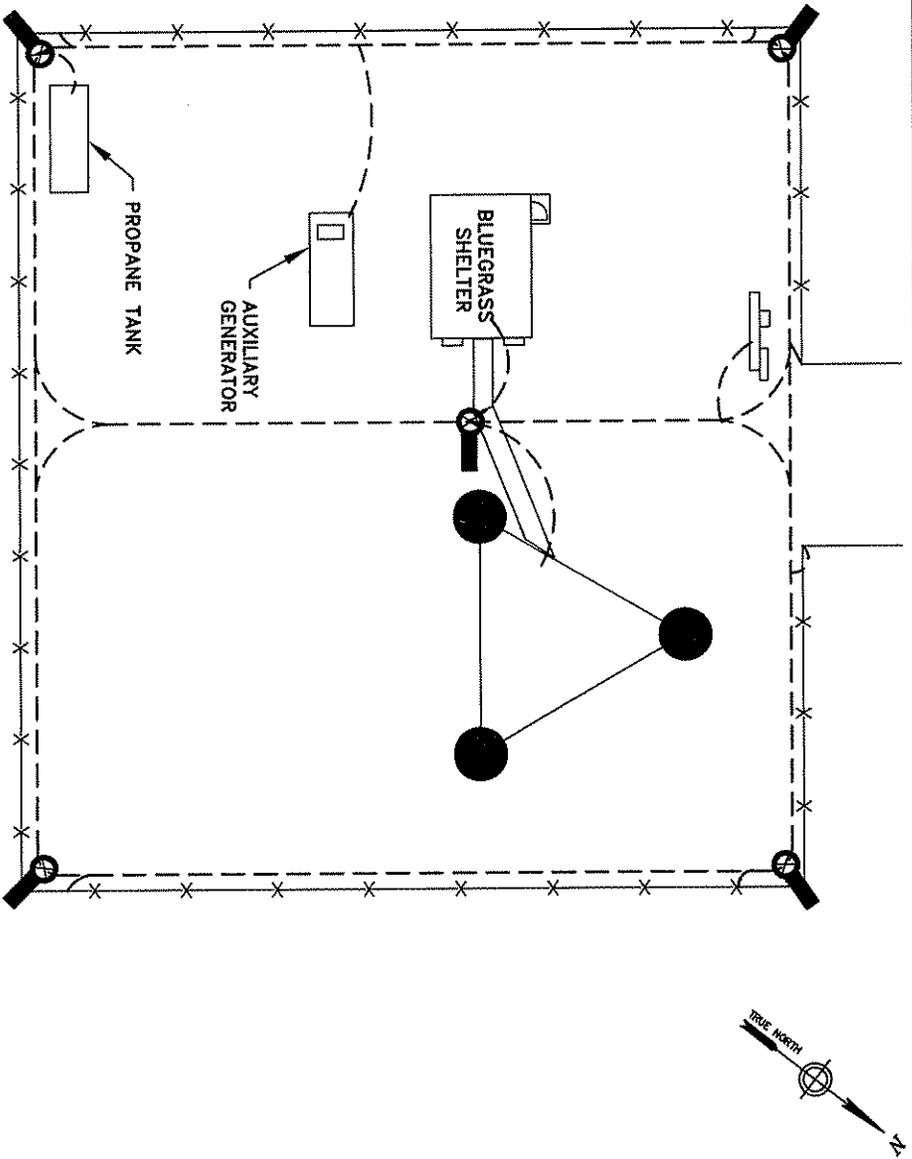


BACKBOARD DETAIL
NO SCALE

DRAWN BY: R. BECKER ISSUE DATE: 7-17-06 SCALE: LISTED	BLUEGRASS CELLULAR, INC. STANDARD CELLULAR SITE KNOB LICK 5603 N. JACKSON HWY. MUNFORDVILLE, KY. 42765		NO. DATE REVISION	 8405 MCARDURY DRIVE LOUISVILLE, KY. 40261 (502) 502-9122 Fax: (502) 502-1252



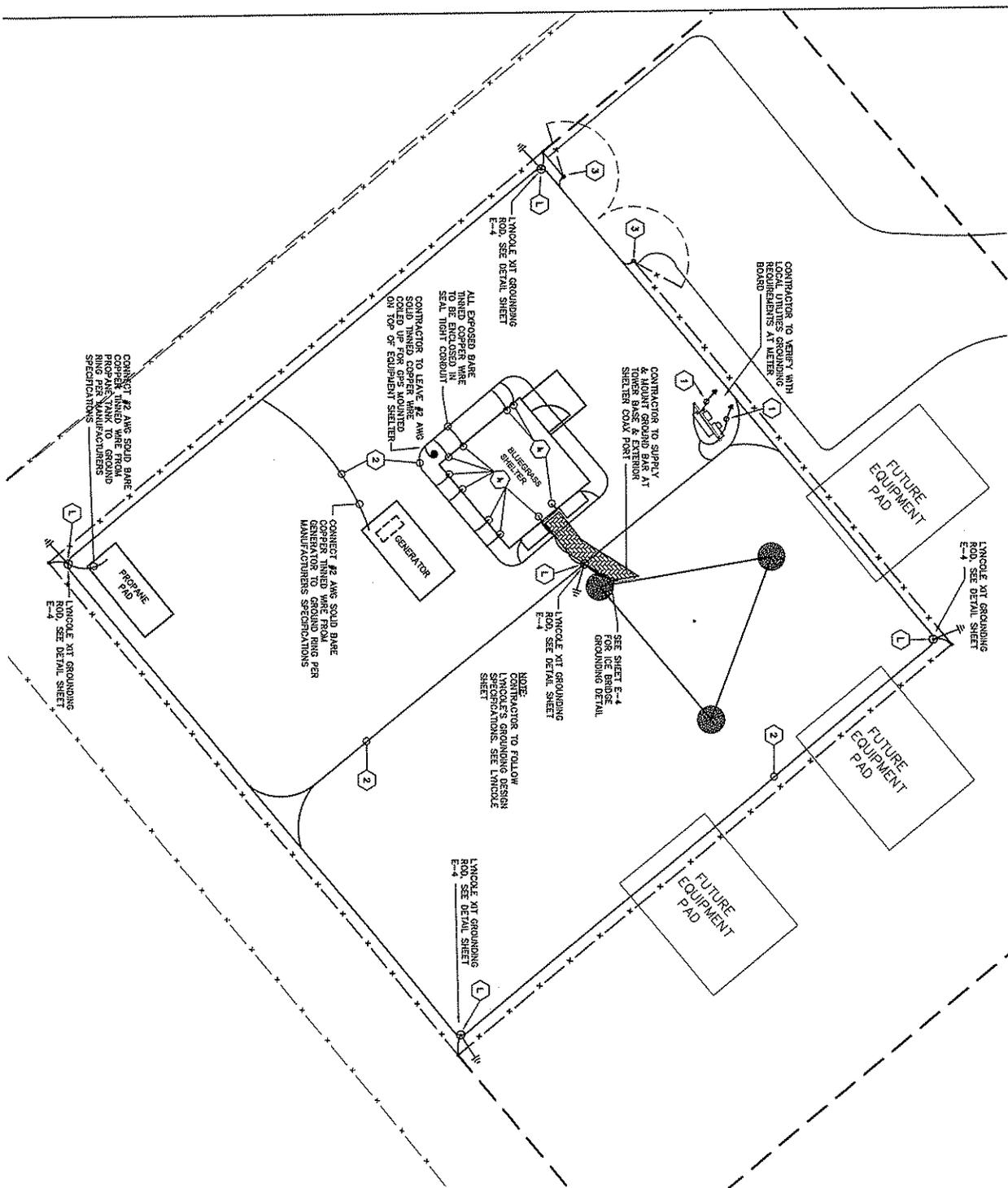
L-SHAPED MODEL
 Lyncole XIT Grounding
 (800) 962-2610
DETAIL



NOTES:

- BARE # 2 AWG SOLID TINNED 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 VOYAGER STREET, SUITE 204 TERRANCE, CA 94503 (800)962-2610 FAX (310)214-1114 ENGINEERING@LYNCOLE.COM</p>		CLIENT / END USER RSB Design / Bluegrass cellular	
		DRAWING PROJECT NAME Knob Lick	
TITLE GROUNDING OPTION		LOCATION CITY, STATE Munfordville, KY	
DRAWN BY RFW		APPROVED BY DATE 12/27/2006	
REFERENCE NUMBER N/A		SCALE NONF	
SDLL DATA PROVIDED BY Terracon		CALCULATED RESISTANCE < 5 OHMS	
		LITS NUMBER 060726	



- GENERAL ELECTRICAL NOTES:**
- 1) CONTRACTOR RESPONSIBLE FOR OBTAINING ALL SERVICE AND FEE PERMITS REQUIRED TO OBTAIN SERVICE.
 - 2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE AND FEE PERMITS REQUIRED TO OBTAIN SERVICE.
 - 3) GROUND RING TO BE CONTAINED WITH IN THE COMPOUNDS FENCED AREA.
 - 4) FENCE TO BE GROUNDED FROM GROUND RING TO ALL CORNER POST & GATES. SPACE FENCE GROUNDING APPROXIMATELY 20'-0" O/C. (CADD WELD ALL CONNECTIONS)
 - 5) ALL GROUND RING CONNECTIONS TO BE AS CLOSE AS POSSIBLE. SHARP BENDS WILL NOT BE PERMITTED AS WELL AS 1" CONNECTIONS. ALL CONNECTIONS TO HAVE A SWEEPING RADIUS OF 6" MINIMUM. GROUNDING CONFIGURATION TO BE IN PARALLEL.
 - 6) CONTACT POINTS FOR GROUNDING TO BE CLEANED OF ANY RUST, PAINT, DIRT, ETC. TO CREATE A GOOD BOND FOR CONDUCTOR. AREA THAT HAS BEEN CLEANED TO BE RESEALED TO PREVENT RUSTING.
 - 7) PROPERLY GROUND ANY EXPOSED METAL THAT MAY EXIST ON EXTERIOR OF EQUIPMENT SHELTER OR CABINET.
 - 8) WHERE GROUND CONDUCTORS REQUIRE MECHANICAL EXHAUST, STAINLESS STEEL CONNECTOR WASHERS. EXIST CONNECTIONS FROM USING CONNECTOR WASHERS.
 - 9) CONTRACTOR RESPONSIBLE FOR SEEING THAT UTILITY PERSONNEL MAKE FINAL CONNECTIONS. MAKING SURE THE NUMBER ALUMINUM IS CORRECTED AND A TELEPHONE NUMBER FOR THE FLASH MUST BE SUPPLIED.
 - 10) CONTRACTOR RESPONSIBLE FOR NEG TESTING THE SITE AND SUPPLYING OWNER WITH FINAL READINGS IN OWNERS SPECIFICATIONS.

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

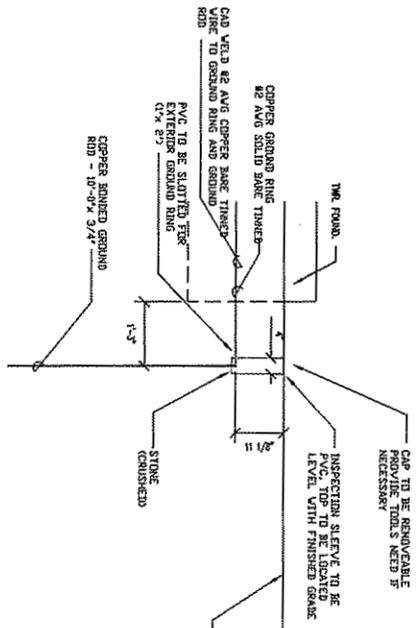
NOTE:
CONTRACTOR TO FOLLOW LYNCOLES GROUNDING SPECIFICATIONS WHEN USING THEIR XIT GROUNDING RODS. SEE DETAIL SHEET E-4.

- REMARKS:**
- 1) LYNCOLE XIT GROUNDING RODS TO BE INSTALLED WHERE SHOWN AND TO MANUFACTURERS SPECIFICATIONS (SEE LYNCOLE SPECIFICATIONS)
 - 2) GROUNDING RODS 10'-0" LONG x 3/4" COPPER
 - 3) (TYPICAL) SPACING OF RODS INDICATED ON PLANS.
 - 4) INSTALL AND PROVIDE SAND TAPPED COPPER WIRE #2 AWG. GROUND TAPPED COPPER WIRE TO BE TAPPED TO GROUND RING PER MANUFACTURERS SPECIFICATIONS FOR ALL THE CONDUCTORS TO BE PARALLEL AND "COLD WELD" CONNECTIONS
 - 5) FLEXIBLE GROUNDING STRAP TO BE USED TO PROVIDE A COMMON BOND BETWEEN GATE AND GATE LAMP FIXTURE. #2 AWG SOLID COPPER BARE TAPPED COPPER WIRE TO BE TAPPED TO GROUND RING PER MANUFACTURERS SPECIFICATIONS. GROUND TAP TO BE PROVIDED ON EACH 4 SIDES TO GROUND RING AS DESCRIBED ABOVE.
 - 6) SPACED GROUNDING TO BE PROVIDED TO GROUND RING FOR EACH OF THE CASE STRUCTURE FRAME WORK. BILDED DISCONNECT.
 - 7) FOR TOWER FRAME GROUNDING, BEFORE GALVANIZED COATING COMPLETELY AT SPOT TO "COLD WELD" TO AWG CLEAN. #2 AWG SOLID BARE TAPPED COPPER CONDUCTOR TO THE COLD WELDED APPROXIMATELY 1'-0" ABOVE EXISTING CONDUCTOR TO GROUND RING. RIGHT ANGLES NOT ACCEPTED. ALL BENDS TO BE SWEEPED.

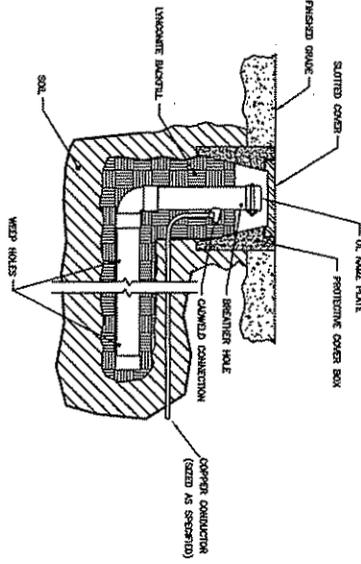
SITE PLAN-GROUNDING

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

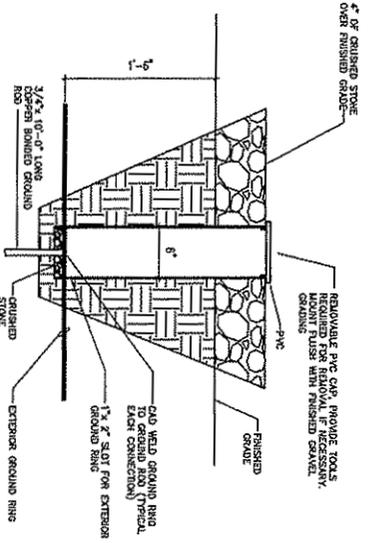
DRAWN BY: R. BECKER ISSUE DATE: 7-17-06 SCALE: LISTED	BLUEGRASS CELLULAR, INC. STANDARD CELLULAR SITE KNOB LICK 5603 N. JACKSON HWY. MUMFORDVILLE, KY. 42765	NO.	DATE	REVISION	



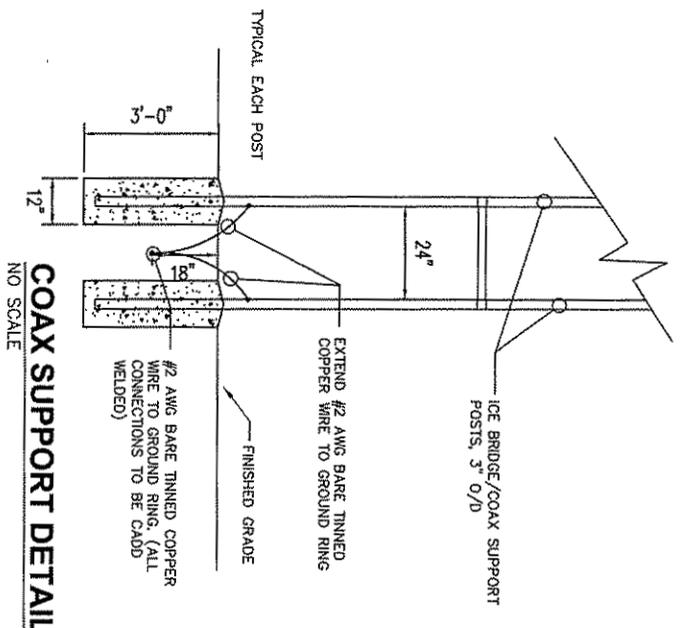
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NO SCALE



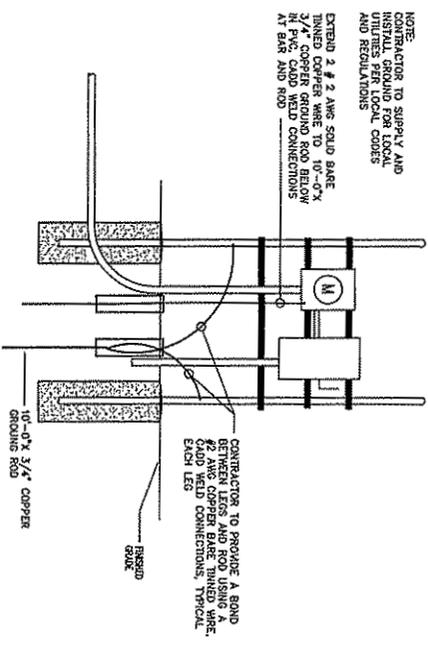
LYNCOLE XIT ROD DETAIL
NO SCALE



GROUND SLEEVE DETAIL
NO SCALE

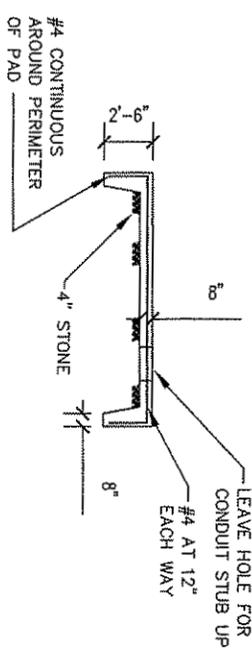
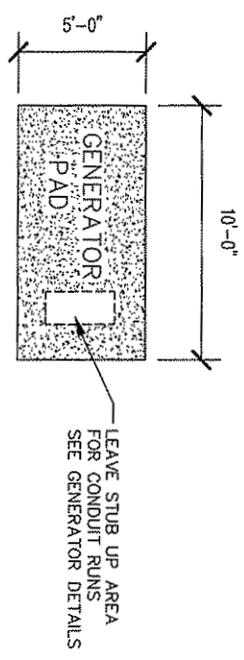


COAX SUPPORT DETAIL
NO SCALE

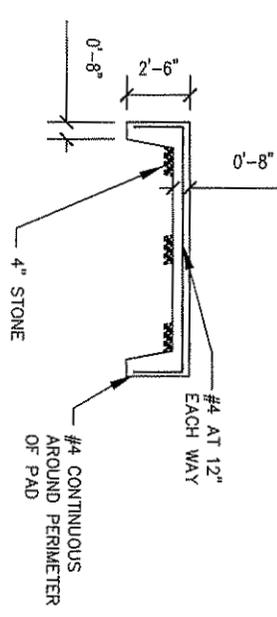
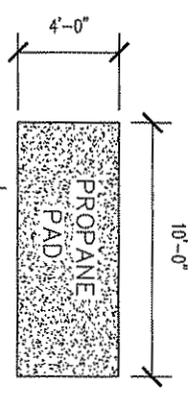


SERVICE BOARD DETAIL
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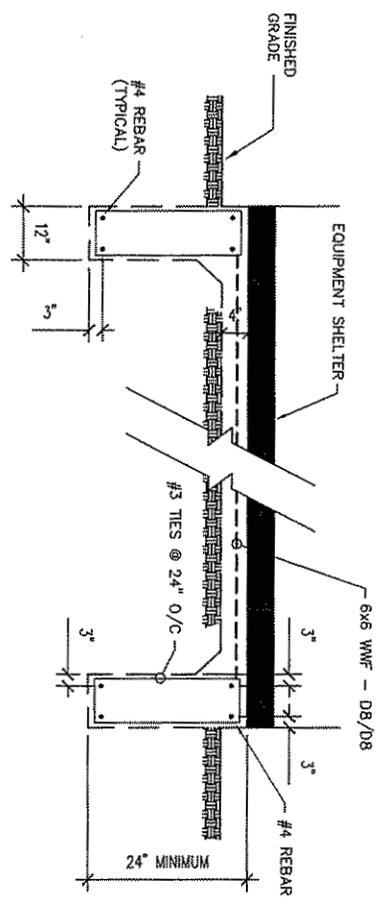
	NO.	DATE	REVISION
BLUEGRASS CELLULAR, INC. STANDARD CELLULAR SITE KNOB LICK 5603 N. JACKSON HWY. MUMFORDVILLE, KY. 42765			
DRAWN BY: R. BECKER ISSUE DATE: 7-17-06 SCALE: LISTED			
E-4 SHEET NUMBER			



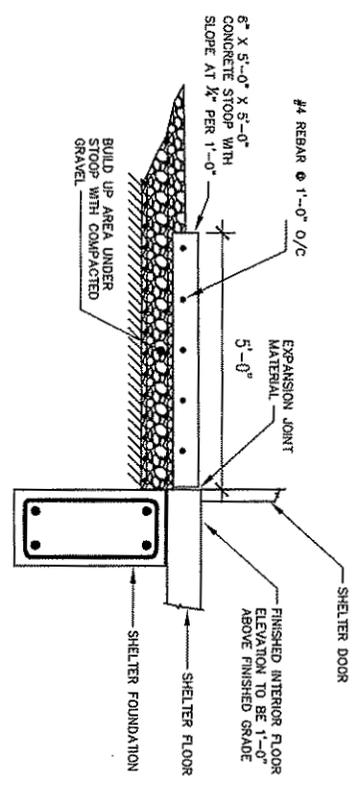
FOUNDATION DETAIL
NO SCALE



FOUNDATION DETAIL
NO SCALE



SHELTER FOUNDATION PLAN
NO SCALE



CONCRETE STOOP DETAIL
NO SCALE

DRAWN BY: R. BECKER ISSUE DATE: 7-17-06 SCALE: LISTED	BLUEGRASS CELLULAR, INC. STANDARD CELLULAR SITE KNOB LICK 5603 N. JACKSON HWY. MUNFORDVILLE, KY, 42765		NO. DATE REVISION	<p>8400 MERCURY DRIVE LOUISVILLE, KY 40261 (502) 588-0122 Fax (502) 581-2150</p>
	SHEET NUMBER: S-1	NO. DATE REVISION	NO. DATE REVISION	

0G1407

NOTES:

- 1) MINIMUM RECOMMENDED CONCRETE PAD SIZE: 15'45" (60.8') WIDE X 30'61" (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.
- 4A) 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 PREPARED TO SUPPLY POWER TO BATTERY CHARGER.
- 8) 4L ONLY: 120V 240VAC OUTLET FOR ENGINE BLOCK HEATER.
- 8, 8L ONLY: USE 20A GFCI OUTLET FOR ENGINE BLOCK HEATER.

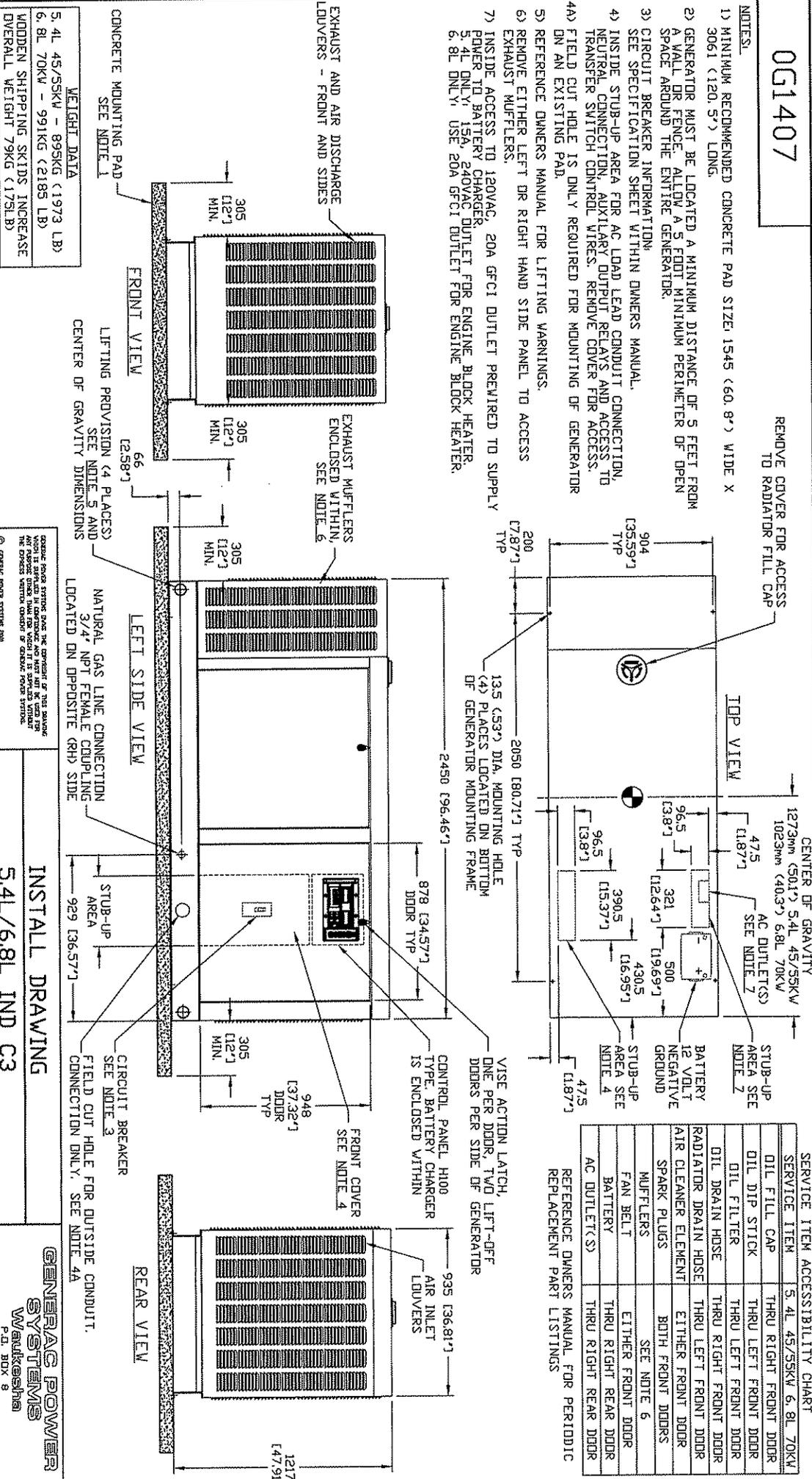
REMOVE COVER FOR ACCESS TO RADIATOR FILL CAP

CENTER OF GRAVITY

SERVICE ITEM ACCESSIBILITY CHART

SERVICE ITEM	5, 4L 45/55KW 6, 8L 70KW
DIL FILL CAP	THRU RIGHT FRONT DOOR
DIL DIP STICK	THRU LEFT FRONT DOOR
DIL FILTER	THRU LEFT FRONT DOOR
DIL DRAIN HOSE	THRU RIGHT FRONT DOOR
RADIATOR DRAIN HOSE	THRU LEFT FRONT DOOR
AIR CLEANER ELEMENT	EITHER FRONT DOOR
SPARK PLUGS	BOTH FRONT DOORS
MUFFLERS	SEE NOTE 6
FAN BELT	EITHER FRONT DOOR
BATTERY	THRU RIGHT REAR DOOR
AC OUTLET(S)	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)

GENERATOR MUST BE LOCATED ON THE CENTER OF GRAVITY AND PLACED WITHIN THE DIMENSIONS SHOWN. THE CENTER OF GRAVITY IS LOCATED ON THE CENTER OF GRAVITY LINE.

INSTALL DRAWING
5.4L/6.8L IND C3

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

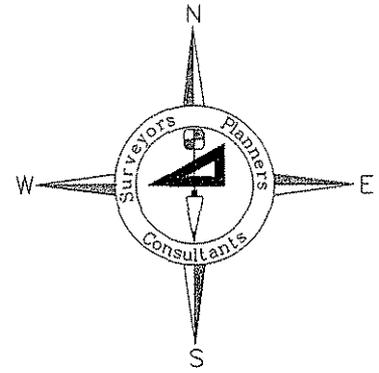
INSTALLATION DRAWING

SCALE 1 = 20
FILE NAME 0G1407.DWG
DVG NO. 0G1407

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 Metcalfe County, Kentucky

Knob Lick Site
Metcalfe County, Kentucky

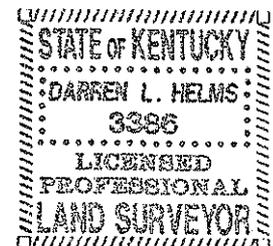
From the Metcalfe County Courthouse in Edmonton, Kentucky: travel North on U.S Highway 68 for 9.2 miles to Kentucky Highway 70; turn left onto Kentucky Highway 70 and travel West (crossing Kentucky Highway 1243 at 5.4 miles and crossing Kentucky Highway 640 at 6.0 miles) for 6.2 miles to Harold Poynter Road on the left; turn left onto Harold Poynter Road and travel Southwesterly for 0.25 miles to the tower access road on the left; turn left onto the access road and travel Southerly for about 700 feet to the tower site. The address of the site is 243 Harold Poynter Road, Knob Lick, Kentucky 42154.

Darren L. Helms

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

Nov. 21, 2006

Date



OPTION TO LEASE AND LEASE AGREEMENT

I.

OPTION TO LEASE REAL PROPERTY

THIS OPTION TO LEASE REAL PROPERTY (the "Option Agreement") is made and entered into this 24th day of June 2006, by and between **Coy Allen Neal and Patricia Ann Neal, husband and wife** whose address is **125 Harold Poynter Road, Knob Lick, Kentucky 42154** (the "Optionor (s)") and **Cumberland Cellular 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 **Metcalfe** 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.

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 12-24-07 (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: Knob Lick

5. If the Optionee elects to exercise the Option in accordance with the terms hereof, notice of such election shall be deemed sufficient if personally delivered or sent by registered or certified mail, return receipt requested, to the address of the Optionor(s) set forth in Paragraph 14 hereof.
6. The Optionor(s) agrees not to sell, lease or offer for sale or lease the Property during the term of this Option or any renewal or extension of the Option.
7. In the event the Optionee fails to exercise the Option as set forth herein (unless such failure is due to the discovery of a defect in the Property or other matter unsatisfactory to the Optionee), the Optionor(s) shall have the right to retain the Option Consideration.
8. The Optionee may assign this Option with written consent of the Optionor(s), which consent shall not be unreasonably withheld, and upon any assignment such assignee shall have all the rights, remedies and obligations as if it were the original Optionee hereunder. From and after any such assignment, the term "Optionee" shall refer to such assignee.
9. Each party hereto shall bear any and all of its own expenses in connection with the negotiation, execution or settlement of this Option.
10. Risk of loss with respect to the Property during the term of this Option and during the term of the lease shall be upon the Optionor(s). If, during the term of the Option, any portion of the Property shall be acquired by public authority under the right or threat of eminent domain, the Optionee may, at its sole option, either (i) exercise the

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

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

Site Name: Knob Lick

14. For the purposes of giving notice as permitted or required herein, the address of the Optionor(s) shall be: 125 Harold Poynter Rd., Knob Lick, KY 42154; 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 Metcalf 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: Knob Lick

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

Site Name: Knob Lick

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: Knob Lick

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: Knob Lick

EXECUTION OF AGREEMENT(S)

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

Patricia Ann Neal

Date: 6/24/06

Coy A Neal

Date: 6/24/06

("Optionor(s)")

By: Coy Allen Neal and
Patricia Ann Neal
Property Owner(s)

Ron Smith

Date: 6-29-06

("Optionee")

By: Ron Smith
Authorized Representative

STATE OF KENTUCKY
 COUNTY OF Metcalfe

The foregoing instrument was acknowledged before me this 24th day of June, 2006,
 by Patricia Ann Neal to be his/her free act and deed.

Coy A Neal
 NOTARY PUBLIC STATE AT LARGE
 My commission expires: Oct. 1 2008

STATE OF KENTUCKY
COUNTY OF Metcalfe

The foregoing instrument was acknowledged before me this 24th day of June, 2006,
by Coy Allen Neal to be his/her free act and deed.

Coy L Neal
NOTARY PUBLIC STATE AT LARGE
My commission expires: Oct. 1 2008

STATE OF Kentucky
COUNTY OF Hardin

The foregoing instrument was acknowledged before me this 29 day of June,
2006, by Ron Smith, to be his free act and deed.

Neil Vick
NOTARY PUBLIC STATE OF LARGE
My commission expires: 1-21-09

This instrument prepared by:

John E. Selent

John E. Selent

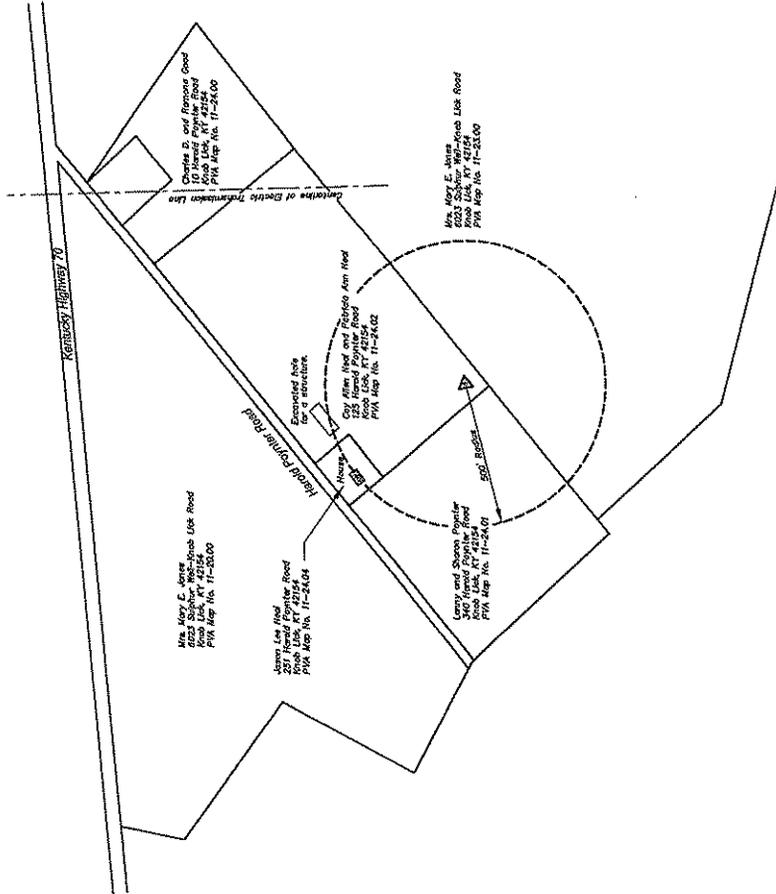
DINSMORE & SHOHL LLP

1400 PNC Plaza / 500 West Jefferson Street

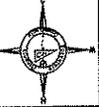
Louisville, KY 40202

(502) 540-2300

**Site: Knob Lick
Metcafe County, Kentucky
500-Foot Radius Map for Structures and Landowners**



Landmark Surveying Co., Inc.
15 N.E. 2nd Street
Washington, Indiana 47301
(812) 257-0350
Fax: (812) 257-0350
Project No. 05-10-0225



500-Foot Radius Map
243 Harold Painter Road
Knob Lick, Kentucky 42154

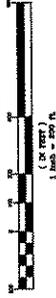
Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42702

DATE	
REVISIONS	
DATE	
BY	
BY	
BY	
DATE	11-21-06
SHEET NO.	1
OF 1 SHEETS	
FILE NO.	Knob Lick radius map



North

GRAPHIC SCALE



Note

The location of the monuments shown are approximate, and they are based on the location of the monuments shown on the plat of the Property Subdivision Administrator of Metcafe County, Kentucky.

Surveyor's Certification

I hereby certify that the information shown is correct to the best of my knowledge and belief, and is in accordance with the records filed in the office of the Property Subdivision Administrator of Metcafe County, Kentucky on November 18, 2006.

[Signature]
DARRSH L. HELMS

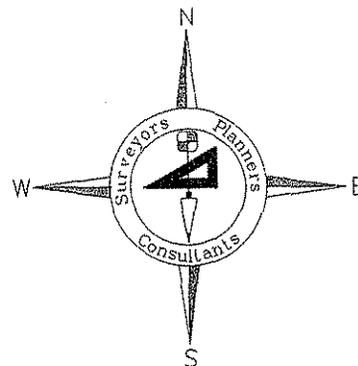
Nov. 21, 2006

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

Reduced Copy

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
Knob Lick Site
Metcalf County, Kentucky

Mrs. Mary E. Jones
6023 Sulphur Well-Knob Lick Road
Knob Lick, KY 42154

Charles D. and Ramona Good
10 Harold Poynter Road
Knob Lick, KY 42154

Jason Lee Neal
251 Harold Poynter Road
Knob Lick, KY 42154

Coy Allen Neal and
Patricia Ann Neal
125 Harold Poynter Road
Knob Lick, KY 42154.

Lanny and Sharon Poynter
340 Harold Poynter Road
Knob Lick, KY 42154

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

Nov. 21, 2006

Date



January 19, 2007

Mrs. Mary E. Jones
6023 Sulphur Well-Knob Lick Road
Knob Lick, KY 42154

Public Notice

Cumberland Cellular 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 operate a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower to be located at 243 Harold Poynter Road, Metcalfe County, Knob Lick, Kentucky, 42154. 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 2007-00016 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"> ☑ 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. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Mary E. Jones</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Mary Jones</i></p> <p>C. Date of Delivery <i>1-25-07</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address below:</p>
<p>1. Article Addressed to:</p> <p>Ms. Mary E. Jones 6023 Sulphur Well-Knob Lick Rd Knob Lick, KY 42154</p> <p>2. Article Number (Transfer from service label) 7006 2150 0005 1757 4842</p>	<p>3. Service Type <i>return receipt</i></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 checked="" type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>

January 19, 2007

Jason Lee Neal
251 Harold Poynter Road
Knob Lick, KY 42154

Public Notice

Cumberland Cellular 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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Please refer to case number 2007-00016 in your correspondence.

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SENDER COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	
<ul style="list-style-type: none"> ■ 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. 	A. Signature <input checked="" type="checkbox"/> <i>Jason Neal</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to:	B. Received by (Printed Name) <i>Jason Neal</i>	C. Date of Delivery <i>1-24-07</i>
Mr. Jason Lee Neal 251 Harold Poynter Road Knob Lick, KY 42154	D. Is delivery address different from item 1? <input type="checkbox"/> Yes if YES, enter delivery address below: <input type="checkbox"/> No	
2. Article Number (Transfer from service label)	3. Service Type <i>return receipt</i> <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input checked="" type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
PS Form 3811, February 2004	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
	7006 2150 0005 1757 4859	

January 19, 2007

Lanny and Sharon Poynter
340 Harold Poynter Road
Knob Lick, KY 42154

Public Notice

Cumberland Cellular 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 2007-00016 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"> ■ 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. 	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee <i>Sharon Poynter</i></p> <p>B. Received by (Printed Name) C. Date of Delivery <i>Sharon Poynter</i> <i>1-23-07</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 style="text-align: center;">Lanny & Sharon Poynter 340 Harold Poynter Road Knob Lick, KY 42154</p>	<p>3. Service Type <i>return receipt</i> <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 style="text-align: center;">7006 2150 0005 1757 4866</p>

January 19, 2007

Charles D. and Ramona Good
10 Harold Poynter Road
Knob Lick, KY 42154

Public Notice

Cumberland Cellular 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 operate a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower to be located at 243 Harold Poynter Road, Metcalfe County, Knob Lick, Kentucky, 42154. 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 2007-00016 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"> ■ 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. 	A. Signature X <i>Charles D. Good</i>	<input type="checkbox"/> Agent <input type="checkbox"/> Addressee
1. Article Addressed to:	B. Received by (Printed Name) <i>CHARLES D. GOOD</i>	C. Date of Delivery <i>1-24-07</i>
	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
Mr. & Mrs. Charles D. Good 10 Harold Poynter Road Knob Lick, KY 42154	3. Service Type <i>return receipt</i> <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.	
2. Article Number	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
(Transfer from service label)	7006 2150 0005 1756 9305	

January 19, 2007

Coy Allen Neal and Patricia Ann Neal
125 Harold Poynter Road
Knob Lick, KY 42154

Public Notice

Cumberland Cellular 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 operate a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower to be located at 243 Harold Poynter Road, Metcalfe County, Knob Lick, Kentucky, 42154. 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 2007-00016 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"> ■ 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. 	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery Coy Allen Neal 1-19-07</p>
<p>1. Article Addressed to:</p> <p>Coy Allen Neal Patricia Ann Neal 125 Harold Poynter Road Knob Lick, KY 42154</p>	<p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p> <p>3. Service Type <i>return receipt</i> <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>7006 2150 0005 1757 4873</p>

Dinsmore & Shohl LLP
ATTORNEYS

Carrie Justice
513-977-8457
carrie.justice@dinslaw.com

January 16, 2007

Via Certified Mail
7006 2150 0005 6274 8137
Metcalf County Judge Executive
Courthouse
100 East Stockton Street
Edmonton, KY 42129

RE: Public Notice - Public Service Commission of Kentucky
Case No. 2007-00016

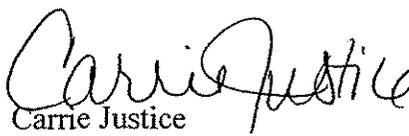
Cumberland Cellular Partnership is applying to the Public Service Commission of Kentucky (the Commission) for a Certificate of Public Convenience and Necessity to propose construction and operation for a new facility to provide cellular radio telecommunications service in rural service area (RSA) #5 in Metcalfe County. The facility will include a 240 ft. tower and an equipment shelter to be located at 243 Harold Poynter Road, Metcalfe County, Knob Lick, Kentucky, 42154. 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 2007-00016 in your correspondence.

Very truly yours,

DINSMORE & SHOHL LLP


Carrie Justice
Paralegal

enclosure

CDJ

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21965-20

255 East Fifth Street, Suite 1900 Cincinnati, OH 45202
513.977.8200 513.977.8141 fax www.dinslaw.com

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:

Metcalf County Judge Executiv
Courthouse
100 East Stockton Street
Edmonton, KY 42129

COMPLETE THIS SECTION ON DELIVERY

A. Signature x <i>[Signature]</i>		<input type="checkbox"/> Agent <input type="checkbox"/> Addressee
B. Received by (Printed Name) <i>L BOSTON</i>	C. Date of Delivery <i>1/22/07</i>	
D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No		

3. Service Type <i>return receipt</i>	
<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	

2. Article Number
(Transfer from service label)

7006 2150 0005 6274 8137

PUBLIC NOTICE

Comberland Cellular Partnership
intends to
construct a cellular
communications

TOWER

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

Executive Director
The Public Utility Commission
111 Broad Street
P.O. Box 118
Trenton, NJ 08646
Tel: 609-961-1111

Please refer to P.S.C.
Case #2007-00016
in your correspondence.

PUBLIC NOTICE

Cumberland Cellular Partnership
proposes to
construct a cellular
communications

TOWER

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

Contract Dealer
Partnership
P.O. Box 5918
2007 River Road
Dundee, NY 12001

Executive Director,
The Public Service Commission
201 Kent Street
P.O. Box 815
Herkimer, NY 12032

Please refer to P.S.C.

Case #2007-00016

in your correspondence.

2007

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THE HERALD-NEWS

Edmonton, Kentucky

3 sections, 24 pages

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email:thenews@scrtc.com

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Fax 432-4414

NOTARIZED PROOF OF PUBLICATION

STATE OF KENTUCKY

COUNTY OF Metcalfe

Before me, a Notary Public, in and for said County and State, this 6th day of

February, 2007, came Judy Wright

personally known to me, who being duly sworn, states as follows:

That he/she is Publisher of the Herald-News,

and that said advertisements of Cumberland Cellular Partnership

ran the dates of 1-24-07 & 1-31-07

as requested.

Judy Wright
Publisher, THE HERALD-NEWS

Deborah Ferguson
Notary Public

My commission expires 8/2/07

zero down! NO money out of your pocket! If you own land or family land, limited credit OK! Call 270-769-3194. TFN

YOUR LAND! OR FAMILY LAND! 0 DOWN. BAD CREDIT OK. CALL

2504 Edmonon Road, Glasgow. Installation sales and service group. Couple gas or electric heat pump. FREE ESTIMATES! Call 678-3333 day or night. RONNIE HISER, owner.

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Florist shop. Serious inquiries only. Call 432-7867.

COURTNEY'S FURNITURE: Quality furniture at affordable prices. Everyday prices. New hours Monday-Saturday, Sunday, 2-6. 524-367

FARM EQUIPMENT FOR SALE: 1 Timberjack 360 c skidder, 6600 hp Good tight machine \$45,000 or best offer. Call 270-531-3757 cell 270-528-1537. 6HN2-14-07

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Glasgow, KY
651-9228

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Armstrong Vinyl No Wax Reg. \$8 ⁹⁹ Now \$6 ⁹⁹	Berber Carpet \$7 ⁹⁹ sq. yd.
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LEGAL NOTICE ANNUAL MEET

The Burley Tobacco Growers Cooperative Association will hold its Annual Meeting of membership at its Tobacco Fair Appreciation Day at 2 p.m., Friday, February 2, 2007 in Room 101 South Wing at the Fair and Exposition Center in Louisville, Kentucky during the National Machinery Show.

NOTICE

Cumberland Cellular Partnership is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service area #5 of the Commonwealth of Kentucky (Knob Lick Cell Site). The facility is a 240 foot tower and an equipment shelter to be located at 243 Harold Poynter Road, Metcalfe County, Knob Lick, Kentucky 42154.

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 N. 2007-00016 in your correspondence.

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<p>NINE-U-NEED RATE - 1 PAPER -</p> <p>\$600</p> <p>EACH PER WEEK</p> <p>UP TO 25 WORDS</p>	<p>NINE-U-NEED RATE - 1 PAPER -</p> <p>\$600</p> <p>EACH PER WEEK</p> <p>UP TO 25 WORDS</p>
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Bedroom home with large kitchen, includes A/C and FREE delivery/set-up! Call Ed,s Manufactured Homes 270-781-7474.

ONLY \$33,995! for brand new 3 bedroom doublewide. No gimmicks,

MOBILE HOMES FOR SALE

just the lowest prices in Western Kentucky! Call Ed,s Manufactured Homes 270-781-7474.

WE HAVE ALL your home needs, new, used, HUD and modular and Cape Cod. Call and let us help you with your

MOBILE HOMES FOR SALE

home needs today! 270-773-5475.

LAND/HOME 16x80 with big deck and swimming pool with 4 acres. Call today to get qualified. 270-773-5475.

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 NEW HC rooms,

NOTICE

Cumberland Cellular Partnership is applying to the Public Service Commission of Kentucky for a Certificate of Public Convenience and Necessity to construct and operate a new facility to provide cellular radio telecommunications service in rural service area #5 of the Commonwealth of Kentucky (Knob Lick Cell Site). The facility is a 240 foot tower and an equipment shelter to be located at 243 Harold Poynter Road, Metcalfe County, Knob Lick, Kentucky 42154.

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 N. 2007-00016 in your correspondence.

THE CARPET BARGAIN BARN
 405 N. Green St.
 Glasgow, KY
 651-9228
 Mon. - Fri. 8-5, Sat. 9-1

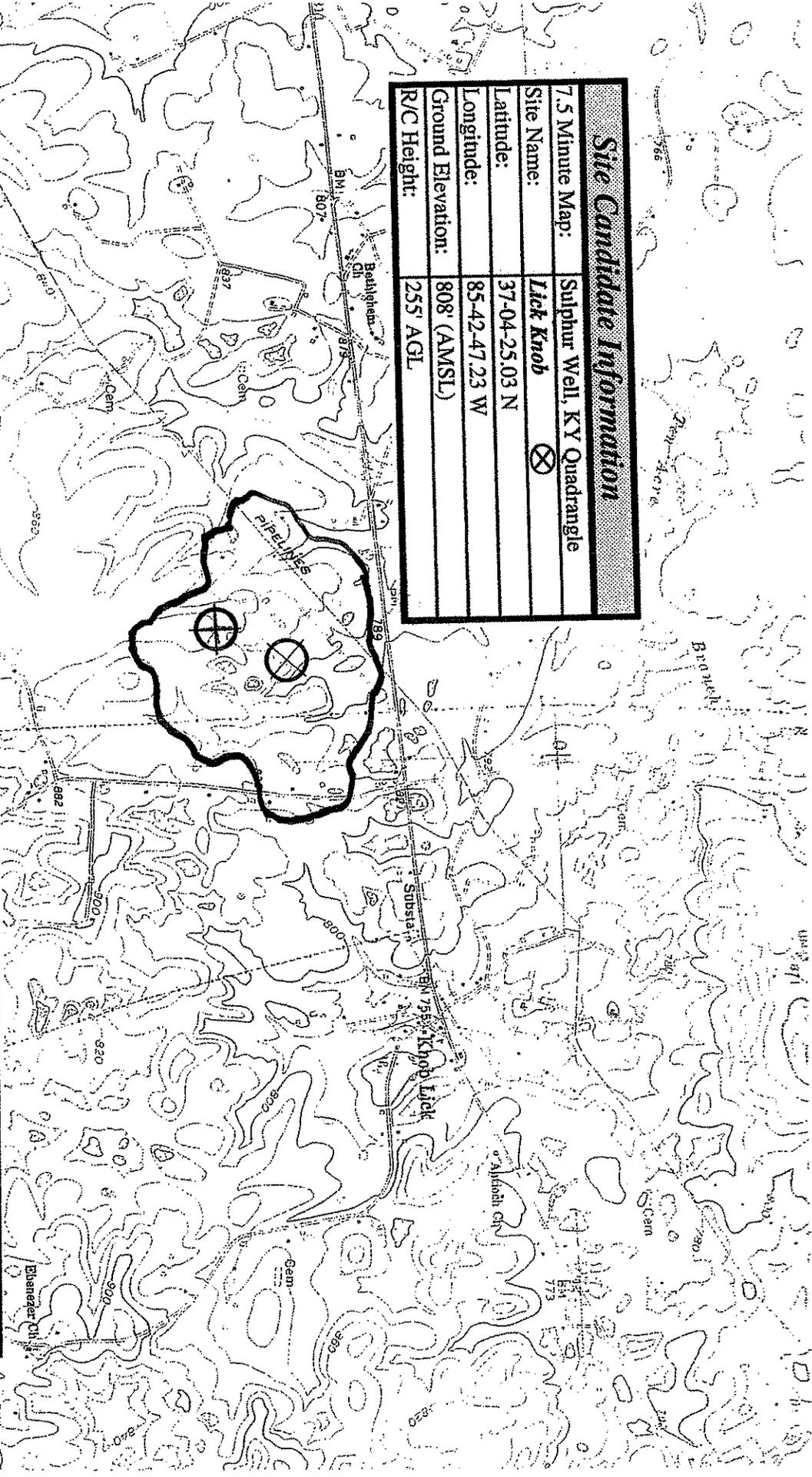
Armstrong Vinyl No Wax Reg. \$8 ⁹⁹ Now \$6 ⁹⁹	Berber Carpet \$7 ⁹⁹ sq. yd.
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Site Candidate Information	
7.5 Minute Map:	Sulphur Well, KY Quadrangle
Site Name:	Lick Knob <input checked="" type="checkbox"/>
Latitude:	37-04-25.03 N
Longitude:	85-42-47.23 W
Ground Elevation:	808' (AMSL)
R/C Height:	255' AGL



Search Area Map	
7.5 Minute Map:	Sulphur Well, KY Quadrangle
Site Name:	Krohn Lick
Latitude:	37-04-15 N
Longitude:	85-42-54 W
Ground Elevation:	850' (AMSL)
R/C Height:	240' AGL
Note:	Minimum GE is 850' AMSL



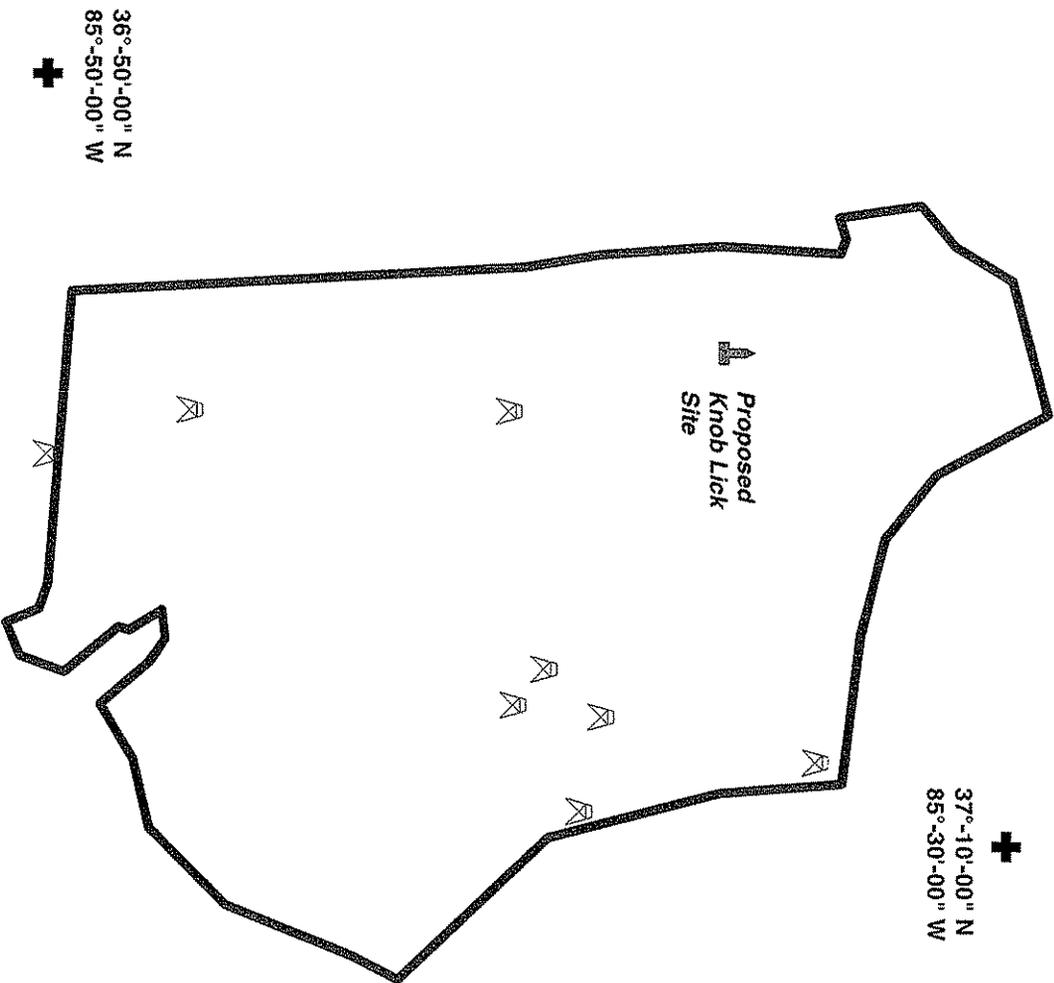
Metcalfe County Boundary

Wireless Tower Locations Registered with the FCC

Proposed Tower location

Tick Marks

Prepared By: LING Engineering 01/16/2007



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

FCC Tower Reg. No.	North Latitude	West Longitude	City, State	Tower Owner
1041300	36-49-56.2	85-40-7.8	Tompkinsville, KY	Texas Eastern Communications, Inc.
1007823	37-0-20	85-34-34	Edmonton, KY	Global Tower, LLC
1043059	36-59-41	85-33-38	Edmonton, KY	Cumberland Cellular Partnership
1044821	37-6-0	85-32-10	Columbia, KY	Kentucky Emergency Warning System
1048812	37-1-32	85-33-20	Edmonton, KY	Hart County Communications, Inc
1214425	36-52-56	85-41-16.8	Summer Shade, KY	Tennessee Valley Authority
1252327	36-59-37.7	85-41-15.5	Edmonton, KY	Shared Sites, LLC
1252869	37-1-4.3	85-30-53.1	Edmonton, KY	Shared Sites, LLC