COMMONWEALTH OF KENTUCKY

BEFORE THE 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 (BURKESVILLE II) IN RURAL SERVICE AREA #5 (CUMBERLAND) OF THE COMMONWEALTH OF KENTUCKY

CASE NO. 2010-00044

APPLICATION FOR A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY (BURKESVILLE II)

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 Burkesville II 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(l) 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 and approvals from the Federal Aviation Administration and Kentucky Airport Zoning Commission are Exhibit "A."

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 Burkesville II 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 Burkesville II 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), Allstate Tower Inc. 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 and 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 Cumberland 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 Cumberland 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 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 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 and is attached as Exhibit "I."

20. Pursuant to 807 KAR 5:063 § 1(1)(r), the cell site, which has been selected, is in a relatively undeveloped, densely wooded area in Burkesville, Kentucky. Existing land uses are characterized as residential and agricultural.

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."

Federal Aviation Administration
Air Traffic Airspace Branch, ASW-520
2601 Meacham Blvd.
Fort Worth, TX 76137-0520

Aeronautical Study No.
2009-ASO-7589-OE

Issued Date: 12/30/2009

Scott McCloud
Bluegrass Cellular, Inc.
2902 Ring Road
Elizabethtown, KY 42701

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

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

Structure:	Antenna Tower Burkesville II
Location:	Burkesville, KY
Latitude:	36-42-44.66N NAD 83
Longitude:	85-21-54.10W
Heights:	255 feet above ground level (AGL) 1168 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

As a condition to this Determination, the structure is marked and/or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, a med-dual system - Chapters 4,8(M-Dual),&12.

It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

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

This determination expires on 06/30/2011 unless:

(a) extended, revised or terminated by the issuing office.
(b) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

Federal Aviation Administration

The system will be inaccessible on Tuesday, December 15, 2009 from 8.00 pm ET as a result of scheduled maintenance at FAA and will be back up as soon as possible.
We apologize for any inconvenience.

« OE/AAA

Notice of Proposed Construction or Alteration - Off Airport

Project Name: BLUEG-000135560-09 **Sponsor:** Bluegrass Cellular, Inc.

Details for Case : Burkesville II

Show Project Summary

Case Status

ASN: 2009-ASO-7589-OE
Status: Accepted
Date Accepted: 12/14/2009
Date Determined:
Letters: None
Documents: 12/14/2009 Burkesville II-2C...

Construction / Alteration Information

Notice Of: Construction
Duration: Permanent
if Temporary : Months: Days:
Work Schedule - Start: 02/10/2010
Work Schedule - End: 02/15/2010
State Filing: Filed with State

Structure Summary

Structure Type: Antenna Tower
Structure Name: Burkesville II
FCC Number:
Prior ASN:

Structure Details

Latitude: 36° 42' 44.66" N
Longitude: 85° 21' 54.10" W
Horizontal Datum: NAD83
Site Elevation (SE): 913 (nearest foot)
Structure Height (AGL): 255 (nearest foot)
Requested Marking/Lighting: Dual-red and medium intensity
Other :
Recommended Marking/Lighting:
Current Marking/Lighting: *N/A New Structure*
Other :
Nearest City: Burkesville
Nearest State: Kentucky
Description of Location: *Site is located on:* Clover Creek Drive Burkesville, KY 42717
Description of Proposal: Proposed sel-supporting tower with top-mounted antennas for overall height of 255'.

Common Frequency Bands

Low Freq	High Freq	Freq Unit	ERP	ERP Unit
806	824	MHz	500	W
824	849	MHz	500	W
851	866	MHz	500	W
869	894	MHz	500	W
896	901	MHz	500	W
901	902	MHz	7	W
930	931	MHz	3500	W
931	932	MHz	3500	W
932	932.5	MHz	17	dBW
935	940	MHz	1000	W
940	941	MHz	3500	W
1850	1910	MHz	1640	W
1930	1990	MHz	1640	W
2305	2310	MHz	2000	W
2345	2360	MHz	2000	W

Specific Frequencies

Kentucky

TC 56-50E (Rev. 02/05)

Kentucky Transportation Cabinet, Kentucky Airport Zoning Commission, 200 Mero Street, Frankfort, KY 40622

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

INSTRUCTIONS INCLUDED

Kentucky Aeronautical Study Number

1. APPLICANT -- Name, Address, Telephone, Fax, etc.
Scott McCloud
Bluegrass Cellular, Inc.
2902 Ring Road
Elizabethtown, KY 42702
T: 270-769-0339 F:270-737-0580

2. Representative of Applicant -- Name, Address, Telephone, Fax
Leila Rezanavaz
Lukas, Nace, Gutierrez & Sachs, LLP
8300 Greensboro Drive, Suite 1200
McLean, VA 22102
T: 703-584-8668 F: 703-584-8694

3. Application for: ☒ New Construction ☐ Alteration ☐ Existing

4. Duration: ☒ Permanent ☐ Temporary (Months _____ Days _____)

5. Work Schedule: Start 2/10/2010 End 2/15/2010

6. Type: ☒ Antenna Tower ☐ Crane ☐ Building ☐ Power Line
☐ Landfill ☐ Water Tank ☐ Other _____

7. Marking/Painting and/or Lighting Preferred:
☐ Red Lights and Paint ☒ Dual - Red & Medium Intensity White
☐ White - Medium Intensity ☐ Dual - Red & High Intensity White
☐ White - High Intensity ☐ Other _____

8. FAA Aeronautical Study Number 2009-ASO-7589-OE

9. Latitude: 36 ° 42 ' 44.66 "

10. Longitude: 85 ° 21 ' 54.10 "

11. Datum: ☒ NAD83 ☐ NAD27 ☐ Other _____

12. Nearest Kentucky City: Burkesville County Cumberland

13. Nearest Kentucky public use or Military airport:
Tompkinsville-Monroe County Airport

14. Distance from #13 to Structure: 16.0 Miles

15. Direction from #13 to Structure: East

16. Site Elevation (AMSL): 913.00 Feet

17. Total Structure Height (AGL): 255.00 Feet

18. Overall Height (#16 + #17) (AMSL): 1,168.00 Feet

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

20. Description of Location: (Attach USGS 7.5 minute Quadrangle Map or an Airport layout Drawing with the precise site marked and any certified survey)

Site is located on:
Clover Creek Drive
Burkesville, KY 42717

21. Description of Proposal:

Structure: Proposed self-supporting tower with top-mounted antennas for overall height of 255' AGL.
Max. ERP: 250 Watts
Frequencies: Cellular Band B

22. Has a "NOTICE OF CONSTRUCTION OR ALTERATION" (FAA Form 7460-1) been filed with the Federal Aviation Administration?
☐ No ☒ Yes, When December 14, 2009

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 / Senior Consulting Engineer	Leila Rezanavaz	12/14/2009
Printed Name and Title	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 _____

KENTUCKY AIRPORT ZONING COMMISSION

STEVEN BESHEAR
Governor

90 Airport Road, Bldg 400
FRANKFORT, KY
www.transportation.ky.gov/aviation
502 564-4480

January 20, 2010

APPROVAL OF APPLICATION

APPLICANT:
BLUEGRASS CELLULAR
MR SCOTT McCLOUD
2902 RING ROAD
ELIZABETHTOWN, KY 42702

SUBJECT: AS–029-TZV–2009-225

STRUCTURE:	Antenna Tower
LOCATION:	Burkesville, KY
COORDINATES:	36° 42' 44.66" N / 85° 21' 54.10" W
HEIGHT:	255' AGL/1168'AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 255'AGL/ 1168'AMSL Antenna Tower near Burkesville, KY 36° 42' 44.66" N / 85° 21' 54.10" W.

This permit is valid for a period of 18 Month(s) from its date of issuance. If construction is not completed within said 18-Month period, this permit shall lapse and be void, and no work shall be performed without the issuance of a new permit.

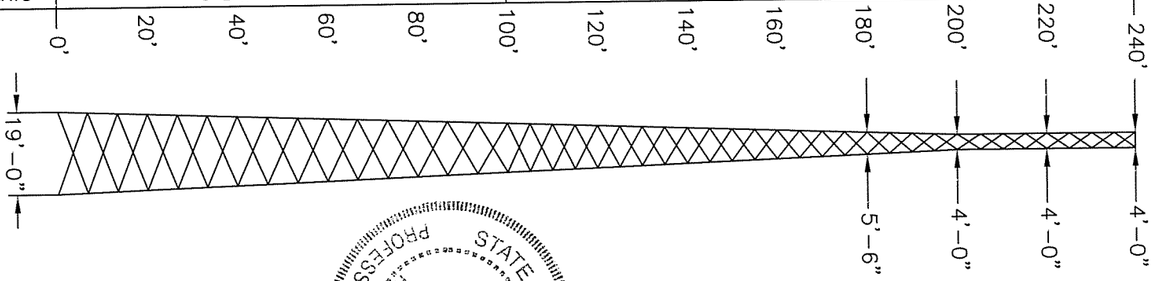
A copy of the approved application is enclosed for your files.

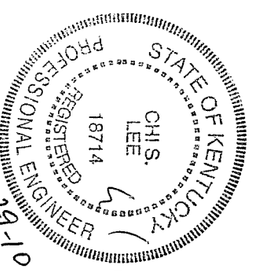
Medium Dual Obstruction Lighting is required.

John Houlihan
Administrator

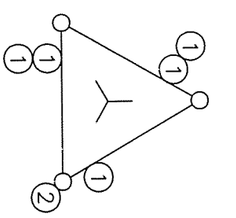
ALLSTATE TOWER ENG.
P.O. BOX 25
HENDERSON, KY 42419
PHONE: (270) 830-8512
FAX: (270) 830-8475

LEG DIA.	ø4.25"	ø4.25"	ø4"	ø4"	ø3.75"	ø3.25"	ø3.25"	ø3"	ø3"	ø2.75"	ø2.5"	ø1.75"
DIAGONALS	L3 x .25"	L3" x .1875"		L2.5" x .1875"		L2" x .1875"		A				
GIRTS	N/A											A
BRACE BOLTS	ø.75"					ø.625"		ø.5"				
FLANGE BOLTS	ø1.25"					ø1"						
# OF BAYS	3 BAY : X-BRACED					4 BAY : X-BRACED						





PLAN VIEW REF:
1) (5) FEEDLINES
2) STEP BOLTS



PLAN VIEW

DESIGN NOTES:
1) ALL LEGS ARE SOLID ROUND ASTM A-572 GRADE : Fy ≥ 50 KSI.
2) ALL BRACE MATERIAL IS ASTM A-36 : Fy ≥ 36 KSI.
3) ALL BRACE AND FLANGE BOLTS ARE A325-X
4) (8) ø1.75" x 6'-0" LONG (A-36) ANCHOR BOLTS PER LEG.
5) THIS TOWER IS DESIGNED FOR A 90 M.P.H. WIND SPEED INCLUDING A 30 M.P.H. WIND SPEED WITH .75" OF ICE IN ACCORDANCE WITH THE TIA/EIA-222-G STANDARD.
6) EXPOSURE="C", TOPO. CAT.=Kzt 1.00, & STRUCTURE CLASS II

ELEV.	ANTENNAS	FEEDLINES
240'	(6) 6' x 1' CELLULAR PANEL	(6) 1.625"
230'	(6) 6' x 1' CELLULAR PANEL	(6) 1.625"
220'	(6) 6' x 1' CELLULAR PANEL	(6) 1.625"
210'	(6) 6' x 1' CELLULAR PANEL	(6) 1.625"
180'	(1) (ASSUMED 6') DISH	(1) 1.625"

--SEE PLAN VIEW FOR FEEDLINE DISTRIBUTION
--STEP BOLTS UTILIZED FOR CLIMBING WITH SAFETY CLIMB DEVICE

SYMBOL LIST:
A = L1.75" x .1875"

BASE REACTIONS: (FACTORED)
TOTAL SHEAR = 44 KIPS
AXIAL LOAD = 60 KIPS
UPLIFT / LEG = 336 KIPS
COMP. / LEG = 376 KIPS
O.T. MOMENT = 5852 FT-K

SCALE: N.T.S.
TOLERANCE BANDS ALL DECIMALS ±.XX ALL ANGULAR DIM ±1° UNLESS NOTED OTHERWISE
APPROX. WEIGHT 35.99 KIPS
SITE: BURKESVILLE II
LOCATION: CUMBERLAND COUNTY, KY
DESCRIPTION: 240' SELF SUPPORT TOWER
CUSTOMER: BLUEGRASS CELLULAR
PROPOSAL #: 28454F - S.S.T. DESIGN
DATE: 01/13/2010
REV: REV. NO.
REV. DATE: REV. DATE
DRAWN BY: W.MILLER
JOB NO 28454F
SHEET A

January 4, 2010

Bluegrass Cellular Partnership
2902 Ring Road
Elizabethtown, Kentucky 42702

Attention: Mr. Doug Updegraff

Regarding: Geotechnical Engineering Report
Proposed 240' Self-Support Tower
Site Name: Burkesville II
Burkesville, Cumberland County, Kentucky
Terracon Project Number: 57097357

Dear Mr. Updegraff:

Terracon Consultants, Inc. (Terracon) has completed the geotechnical engineering services for the above referenced project. This report presents the findings of the subsurface exploration and provides geotechnical recommendations concerning earthwork and the design and construction of foundations for the proposed project.

Terracon's geotechnical design parameters and recommendations within this report apply to the existing planned tower height and would apply to adjustments in the tower height, up to a 20% increase or decrease in 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.* - self-support to monopole), 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, please contact us.

Sincerely,
Terracon Consultants, Inc.

Nathan H. Bryan, P.E.
Geotechnical Department Manager

STATE OF KENTUCKY
TIMOTHY G. LaGROW
17758
REGISTERED PROFESSIONAL ENGINEER

Timothy G. LaGrow, P.E.
Senior Principal
Kentucky PE#-17758

Projects_57097357_Geotechnical Report.doc.doc

Copies to: Addressee (1 via email, 3 via mail)

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GEOTECHNICAL ENGINEERING REPORT
PROPOSED COMMUNICATION TOWER
BURKESVILLE, CUMBERLAND COUNTY, KENTUCKY

Terracon Project No. 57097357
January 4, 2010

1.0 PROJECT INFORMATION

1.1 Project Description

ITEM	DESCRIPTION
Site layout	See Appendix A, Figure 1, Boring Location Plan
Site dimensions	About 100 feet by 100 feet
Tower	Self-Supporting, 240-ft tall
Maximum loads	Vertical: 600 Kips (max.) Shear: 80 Kips (max.) Uplift: 500 Kips (max.)
Maximum allowable settlement	1-inch (assumed)
Equipment Building: **Maximum Loads**	Column: 25 kips (assumed) Wall: 1.5 kips/ft (assumed)
Equipment Building: **Maximum allowable settlement**	Total Settlement: 1-inch (assumed) Differential Settlement: ¾ inch over 40 feet (assumed)
Grading	Minimal cut/fill; existing grade ±3 feet (assumed)

1.2 Site Location and Description

ITEM	DESCRIPTION
Location	Latitude: 36.71247 / Longitude: -85.36503 (approximate) Site Address: 5451 Celina Road, Burkesville, KY 42717
Existing improvements	Undeveloped
Current ground cover	Mature trees and underbrush
Ground surface elevation	± 890 Feet AMSL (from provided survey information)
Existing topography	Relatively level within lease area

The above presentation of pertinent project information is based on our understanding of the plans and information provided to Terracon Consultants, Inc. (Terracon). If this project information is not consistent with the development plans for the site, please inform us of any discrepancies or change in plans.

2.0 SUBSURFACE CONDITIONS

2.1 Geology

FORMATION[1]	DESCRIPTION
Fort Payne Formation	This formation consists of siltstone, limestone, and shale. Siltstone light olive-green to medium and dark gray, thick to thin-bedded, uneven to hackly fractured, in part calcareous, dolomitic, and sandy; particularly in the upper part. Limestone, medium to light-gray and bluish-gray, thin to thick-bedded and massive, commonly steeply cross-bedded; in part very fossiliferous. Shale, greenish-gray, light-gray, an olive-green, very soft, clayey, in part calcareous, abundant phosphate nodules. Commonly occurs at base of formation and is thickest where overlain by reef limestone. Grades laterally and vertically into calcareous and dolomitic siltstone.

1. Based on information provided by the Kentucky Geological Survey (http://kgs.uky.edu/kgsmap) for Cumberland County, *Froque* quadrangle (1/2/2010).

2.2 Subsurface Profile

The boring was drilled at the center of the site. Based on the results of our boring, the subsurface conditions on the project site can be generalized as follows:

Description	Approximate Depth to Bottom of Stratum (feet)	Material Encountered	Consistency/Density
Surface	½	Topsoil	N/A
Stratum 1	2 – Auger Refusal	Lean CLAY	Very Stiff
Stratum 2	10	Siltstone[1]	Recovery = 85 to 87% RQD = 65 to 70%
Stratum 3	15 – Coring Terminated	Interbedded Siltstone/Limestone[2]	Recovery 97% RQD = 92%

1. Very slight to slightly weathered, fair RQD, hard, closely jointed; measured unconfined compressive strength of non-fragmented rock core specimen equal to 6,430 psi; unit weight of approximately 165 pcf.
2. Slightly weathered, hard to very hard, excellent RQD, very thin bedding in some sections; measured unconfined compressive strength of non-fragmented rock core specimen equal to 14,000 psi; unit weight of approximately 165 pcf.

Specific conditions encountered at the boring location are indicated on the attached boring log. Stratification boundaries on the boring log represent the approximate location of changes in soil and rock types; in-situ, the transition between materials may be gradual. Further details of the soil and rock profile can be found on the boring log in the Appendix of this report.

2.3 Groundwater

The boring was advanced to a depth of approximately 2 feet using dry drilling techniques and thereafter utilizing wet coring methods to the boring termination depth of about 15 feet. Groundwater was not observed prior to introduction of water for core drilling, nor during a stabilization period of 15-minutes after auger refusal and prior to water introduction into the borehole.

These groundwater observations are considered approximate and are short-term, since the boring was open for a short time period. On a long-term basis, groundwater may be present within the depths explored. Additionally, groundwater will fluctuate seasonally with climatic changes and should be evaluated just prior to construction.

3.0 RECOMMENDATIONS FOR DESIGN AND CONSTRUCTION

3.1 General

Based on the encountered subsurface conditions, the proposed tower can be either founded on drilled piers, a mat foundation beneath the entire structure, or individual concrete pier pad foundations supported directly on sound bedrock. Additionally, it may be desired to consider the use of rock anchors to help resist uplift forces due to wind loads. The equipment building may be supported on shallow spread foundations.

Design recommendations for the tower drilled piers and a shallow mat or individual pier pad foundations (with or without rock anchors) as well as shallow foundations for the equipment building are presented in the following paragraphs.

3.2 Drilled Pier Foundation Systems

The proposed tower can be founded on a straight shaft drilled pier foundation system. Based on the results of field and laboratory testing, we have developed the following drilled pier design parameters (shown on following page).

Approximate Depth (feet)[1]	Allowable Skin Friction (psf)	Allowable End Bearing Pressure (psf)	Allowable Passive Pressure (psf)	Cohesion (psf)	Internal Angle of Friction (Degrees)	Strain ε_{50}	Lateral Subgrade Modulus (pci)
Lean Clay 0 – 2	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore
Shale Bedrock 2 – 18	3,000[2]	40,000	10,000[2]	100,000[2]	--	0.00001	3,000

1. Pier observation is recommended to adjust pier length if variable soil and/or rock conditions are encountered. A total unit weight of 165 pcf can be assumed for the shale bedrock.
2. The pier should be embedded a minimum of 3 feet into competent shale to mobilize these higher rock strength parameters. Furthermore, it is assumed the rock socket will be extended using coring techniques rather than blasting/shooting.

The indicated cohesion, lateral subgrade modulus and strain values have no factors of safety, and the allowable skin friction and the passive resistances have a factor of safety of about 2. The cohesion, lateral subgrade modulus and strain values given in the above table are based on our boring, published values and our past experience with similar soil and rock types. These values should, therefore, be considered approximate. To mobilize the higher rock strength parameters, the pier should be socketed at least 3 feet into competent shale 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. If the drilled pier is designed using the above parameters and bears within the shale bedrock, settlements are not anticipated to exceed ½ inch.

The upper 2 feet of topsoil and lean clay should be ignored due to the potential effects of frost action and construction disturbance. To avoid a reduction in uplift and lateral resistance caused by variable bedrock depths and bedrock quality, it is recommended that a minimum pier length and minimum competent rock socket length be stated on the design drawings. Competent rock was encountered in our boring below a depth of about 2 feet, but could vary between tower legs, or if the tower is moved from the location of our boring, or if significant grade changes occur at the site. Considering the site geology, variable rock depths should be anticipated if the tower location is moved from the location of our boring. If the tower center is moved more than 25 feet, our office should be notified to review our 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 excavations.

We note that auger refusal conditions were encountered at a depth of approximately 2 feet, therefore, the contractor should recognize the hardness of the material and be prepared to use rock teeth or other means to extend below this depth.

Drilled pier foundations should be designed with a minimum shaft diameter of 30 inches to facilitate clean out and possible dewatering of the pier excavations. Temporary casing may be required during 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.

3.3 Shallow Mat or Individual Pier Pad Foundations

If desired, a mat foundation or individual leg pier pad foundations can be used to support the proposed tower. The mat or individual pier pad foundations can be designed using the rock parameters indicated in the following table.

The gently sloping site and relatively shallow overburden may result in slight excavation difficulties to achieve a level bearing surface. These difficulties could include bedrock excavation.

DESCRIPTION	VALUE
Foundation Subgrade [1]	Competent Shale Bedrock
Net allowable bearing pressure [2]	10,000 psf
Allowable passive pressure [3]	Neglect
Coefficient of sliding friction [3]	0.55
Minimum embedment below finished grade for frost protection	24 inches
Approximate total settlement [4]	1 inch or less

(Continued from Previous Page)

1. The bearing surface should consist of sound shale bedrock. The bearing surface should be cleaned of all overburden soils, and loose, disturbed or visibly fractured bedrock should be removed by mechanical means. A geotechnical engineer should verify foundation subgrade prior to concrete placement
2. We recommend a minimum foundation width of 3 feet regardless of foundation pressures for individual tower leg foundations, where utilized.
3. Lateral loads may be resisted by using concrete/bedrock interface friction. We do not recommend using passive earth pressure because the surficial soils are relatively thin at this site. For base friction, we recommend using a concrete/rock interface coefficient of 0.55. This assumes a completely level or benched bedrock surface and cast-in-place foundations. A minimum factor of safety of 1.5 against overturning is recommended for design.
4. The foundation settlement will depend upon the variations within the subsurface soil/rock profile, the structural loading conditions, the embedment depth of the foundation and the quality of the earthwork activities.

Uplift forces can be resisted by the dead weight of the foundation and the effective weight of any soil above the foundation and/or by utilizing rock anchors (Section 3.4). A unit weight of soil not exceeding 115 pcf is appropriate for the on-site soils backfilled above the foundation, assuming that it is compacted to at least 95 percent of standard Proctor maximum dry density (ASTM D-698). A unit weight of 150 pcf could be used for reinforced foundation concrete. The ground surface should be sloped away from the foundation to avoid ponding of water and saturation of the backfill materials.

The base of all foundation excavations should be free of water and loose soil prior to placing concrete. Concrete should be placed soon after excavating to reduce disturbance to the bearing surface. It is recommended that the geotechnical engineer be retained to observe and test the soil foundation bearing materials.

3.4 Rock Anchors for Lateral and Uplift Resistance

It may be desired to use permanent rock anchors to help resist uplift and lateral loads. We envision that either a post-tensioned or passive/non-tensioned anchor design could be applicable to this project. The advantages of using passive grout anchors is that locally available common rebar can be used, and may be less expensive than ordering mechanical anchors. We recommend the rock anchor design be performed by a specialty contractor experienced in rock anchor design and construction.

Bond stresses published in the Post-Tensioning Institute (PTI), 2004, indicate typical average ultimate rock/grout bond stresses in competent shale between 120 and 200 psi. We note that the shale RQD at this site is considered fair within the upper 10 feet, therefore, we recommend using the lower bound value. In addition, anchor design should be limited by the strength of the anchor tendon rather than the anticipated strength of the anchor grout-to-rock bond.

Based on the findings of our exploration, laboratory testing, and published information, we recommend the following criteria for rock anchor design:

- Use anchor tendons furnished with corrosion protection.
- Size the anchor tendon for a design load less than 60 percent of the specified tensile strength of the tendon steel, or the allowable geotechnical capacity, whichever is less.
- Use a minimum rock/grout bond length of 10 feet regardless of the design load and ignore the contribution of the upper 2 feet of bedrock due to rock quality and potential grout *freeze/thaw cycle exposure.*
- Provide anchor hole diameters with minimum ½ grouted clear cover or per manufacturer.
- Limit the allowable rock/grout bond stress to 60 psi
- Assume a rock engagement angle of 90° (*i.e.* half-angle, β = 45°)
- Assume a total unit weight of 165 pcf for rock within the engagement cone

We recommend that a minimum of three rock anchors installed for tower foundation(s) be proof tested in accordance with the procedures described by PTI. Where individual pier pad foundations are utilized, we recommend proof load testing be performed at one rock anchor from each leg. Proof testing should be performed up to 100% of the design load. We recommend testing the first anchor prior to grouting any other anchors after a minimum grout set period of 24 hours. This will easily allow changes in the embedment length if needed. Acceptance criteria for anchor movement during proof testing should be evaluated by the tower designers.

3.5 Equipment Cabinet Foundations

DESCRIPTION	VALUE
Foundation Subgrade [1]	Suitable stable native soils or shale bedrock
Net allowable bearing pressure [2]	2,000 psf
Minimum footing sizes **Isolated:**	2 feet by 2 feet
Wall :	16 inches wide
Coefficient of sliding friction	0.35
Minimum embedment below finished grade for frost protection [3]	24 inches
Approximate total settlement [4]	1 inch

(Continued from Previous Page)

1. A geotechnical engineer should verify foundation subgrade prior to concrete placement.
2. Assumes any existing fill, soft or unsuitable soils, where encountered, will be undercut and replaced with approved engineered fill. The recommended net allowable bearing pressure is the pressure in excess of the minimum surrounding overburden pressure at the footing base elevation.
3. For perimeter foundations and foundations beneath unheated areas.
4. The foundation settlement will depend upon the variations within the subsurface soil profile, the structural loading conditions, the embedment depth of the foundation, the thickness of any

3.6 Earthwork

Site preparation should begin with removal of topsoil, vegetation, organics and any soft or otherwise unsuitable materials from the entire construction area. We recommend the actual stripping depth along with any soft soils that will require undercutting be evaluated by the geotechnical engineer at the time of construction. Engineered fill should meet the following material property requirements:

3.6.1 Engineered Fill Criteria

Fill Type [1]	USCS Classification	Acceptable Location for Placement[1]
Lean clay	CL (LL<50 & PI<22)	Beneath equipment building and access road all elevations
Well graded granular material	GW, SW, SM, and SC [2]	Beneath equipment building and access road all elevations
On-site soil, weathered rock	N/A	Beneath equipment building and access road assuming it can be broken down to maximum particle size of 4 inches.

1. Controlled, compacted fill should consist of approved materials that are free of organic matter and debris. Frozen material should not be used, and fill should not be placed on a frozen subgrade. A sample of each material type should be submitted to the geotechnical engineer for evaluation. Any fill to be placed beneath the tower footing should consist of well graded granular material.
2. Similar to crushed limestone aggregate or limestone screenings or granular material such as sand, gravel or crushed stone (pug mix).

3.6.2 Compaction Requirements

Fill Lift Thickness	9-inches or less in loose thickness
Compaction Requirements[1]	98% of the materials standard Proctor max. dry density (ASTM D698)
Moisture Content – Granular Material	Workable moisture levels [2]
Moisture Content – Cohesive Soil	Within the range of optimum moisture content to 2% above or 1% below optimum moisture content as determined by the standard Proctor test at the time of placement

1. We recommend that engineered fill be tested for moisture content and compaction during placement. Should the results of the in-place density tests indicate the specified moisture or compaction limits have not been met, the area represented by the test should be reworked and retested as required until the specified moisture and compaction requirements are achieved.
2. Specifically, moisture levels should be maintained low enough to allow for satisfactory compaction to be achieved without the cohesionless fill material pumping when proofrolled.

3.6.3 Construction Considerations

Although the exposed subgrade is anticipated to be relatively stable upon initial exposure, unstable subgrade conditions could develop during general construction activities, particularly if the soils are wetted and/or subjected to repetitive construction traffic. The use of light construction equipment would aid in reducing subgrade disturbance. Should unstable subgrade conditions develop, stabilization measures will need to be employed.

Construction traffic over the completed subgrade should be avoided to the extent practical. The site should also be graded to prevent ponding of surface water on the prepared subgrades or in excavations. If the subgrade should become frozen, desiccated, saturated, or disturbed, the affected material should be removed or these materials should be scarified, moisture conditioned, and recompacted. As a minimum, all temporary excavations should be sloped or braced as required by Occupational Health and Safety Administration (OSHA) regulations to provide stability and safe working conditions. Temporary excavations will probably be required during grading operations.

The grading contractor, by his contract, is usually responsible for designing and constructing stable, temporary excavations and should shore, slope or bench the sides of the excavations as required, to maintain stability of both the excavation sides and bottom. All excavations should comply with applicable local, state and federal safety regulations, including the current OSHA Excavation and Trench Safety Standards.

The geotechnical engineer should be retained during the construction phase of the project to observe earthwork and to perform necessary tests and observations during subgrade preparation; proof-rolling; placement and compaction of controlled compacted fills; backfilling of excavations into the completed subgrade, and just prior to construction of foundations.

4.0 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 observation and testing services during grading, excavation, foundation construction and other earth-related construction phases of the project.

The analysis and recommendations presented in this report are based upon the data obtained from the borings performed at the indicated locations and from other information discussed in this report. This report does not reflect variations that may occur between borings, across the site, or due to the modifying effects of construction or 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, express or implied, are intended or made. Site safety, excavation support, and dewatering requirements are the responsibility of others. In the event that changes in the nature, design, or location of the project as outlined in this report are planned, the conclusions and recommendations contained in this report shall not be considered valid unless Terracon reviews the changes and either verifies or modifies the conclusions of this report in writing.

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APPENDIX

Field Exploration Procedures

The boring was drilled at the center of the lease area as staked in the field by the owner's representative. The approximate boring location is shown on the enclosed Boring Location Map. The surface elevation shown on the boring log was obtained from the site plan provided by the client.

Drilling was performed using a truck mounted rotary drill rig. Hollow stem augers were initially used to advance the borehole. One soil sample was obtained by the split-barrel sampling procedure. 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 value (N). This value is used to estimate the in-situ relative density of cohesionless soils and the consistency of cohesive soils. The sampling depths and penetration distance, plus the standard penetration resistance values, are shown on the boring log. The samples were sealed and returned to the laboratory for testing and classification.

A CME automatic SPT hammer was used to advance the split-barrel sampler in the boring performed for this site. A significantly greater efficiency is achieved with the automatic hammer compared to the conventional safety hammer operated with a cathead and rope. This higher efficiency has an appreciable effect on the standard penetration resistance blow count (N) values. The effect of the automatic hammer's efficiency has been considered in the interpretation and analysis of the subsurface information for this report.

Auger refusal was encountered at a depth of about 2 feet. Below this depth, the boring was advanced into the refusal materials using a diamond bit attached to the outer barrel of a double core barrel. The inner barrel collected the cored material as the outer barrel was rotated at high speeds to cut the rock. The barrel was retrieved to the surface upon completion of each drill run. Once the core samples were retrieved, they were placed in a box and logged. The rock was later classified by an engineer and the "percent recovery" and rock quality designation (RQD) was determined.

The "percent recovery" is the ratio of the sample length retrieved to the drilled length, expressed as a percent. An indication of the actual in-situ rock quality is provided by calculating the sample's RQD. The RQD is the percentage of the cumulative length of broken cores retrieved which have core segments at least 4 inches in length (discounting mechanical breaks) compared to each drilled length. The percent recovery and RQD are related to rock soundness and quality as illustrated on the following table (next page):

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 the drill crew. 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 field log and includes modifications based on laboratory observation and tests of the samples.

Laboratory Testing Procedures

Classification

The soil 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 general accordance with the enclosed General Notes and the Unified Soil Classification System. Estimated group symbols according to the Unified Soil Classification System are indicated on the boring log. A brief description of this classification system is attached to this report.

Classification and descriptions of rock core samples are in general 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.

Rock Core Unconfined Compression Test

Selected pieces of rock core were tested in unconfined compression (ASTM D 2938). Rock core samples were cut into lengths approximately twice their diameter and capped with a compound. The cores were then tested in compression to failure. The test results are presented on the boring log.

Unit Weight

This test is performed to measure the total/moist or oven-dried unit weight of a rock core sample. The total/moist or oven-dried unit weight is directly determined by dividing the total/moist or oven-dried weight by the cylindrical volume of the intact sample respectively. The volume measurement includes any voids or pore spaces in the sample. Moisture contents are performed in accordance with ASTM D 2216.

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

Unconfined Compressive Strength, Qu, psf	Standard Penetration or N-value (SS) Blows/Ft.	Consistency
< 500	<2	Very Soft
500 – 1,000	2-3	Soft
1,001 – 2,000	4-6	Medium Stiff
2,001 – 4,000	7-12	Stiff
4,001 – 8,000	13-26	Very Stiff
8,000+	26+	Hard

RELATIVE DENSITY OF COARSE-GRAINED SOILS

Standard Penetration or N-value (SS) Blows/Ft.	Ring Sampler (RS) Blows/Ft.	Relative Density
0 – 3	0-6	Very Loose
4 – 9	7-18	Loose
10 – 29	19-58	Medium Dense
30 – 49	59-98	Dense
50+	99+	Very Dense

RELATIVE PROPORTIONS OF SAND AND GRAVEL

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

GRAIN SIZE TERMINOLOGY

Major Component of Sample	Particle Size
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

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

PLASTICITY DESCRIPTION

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

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

[A] Based on the material passing the 3-in. (75-mm) sieve

[B] If field sample contained cobbles or boulders, or both, add "with cobbles or boulders, or both" to group name.

[C] Gravels with 5 to 12% fines require dual symbols: GW-GM well-graded gravel with silt, GW-GC well-graded gravel with clay, GP-GM poorly graded gravel with silt, GP-GC poorly graded gravel with clay.

[D] Sands with 5 to 12% fines require dual symbols: SW-SM well-graded sand with silt, SW-SC well-graded sand with clay, SP-SM poorly graded sand with silt, SP-SC poorly graded sand with clay

[E] $Cu = D_{60}/D_{10}$ $\quad Cc = \dfrac{(D_{30})^2}{D_{10} \times D_{60}}$

[F] If soil contains ≥ 15% sand, add "with sand" to group name.

[G] If fines classify as CL-ML, use dual symbol GC-GM, or SC-SM.

[H] If fines are organic, add "with organic fines" to group name.

[I] If soil contains ≥ 15% gravel, add "with gravel" to group name.

[J] If Atterberg limits plot in shaded area, soil is a CL-ML, silty clay.

[K] If soil contains 15 to 29% plus No. 200, add "with sand" or "with gravel," whichever is predominant.

[L] If soil contains ≥ 30% plus No. 200 predominantly sand, add "sandy" to group name.

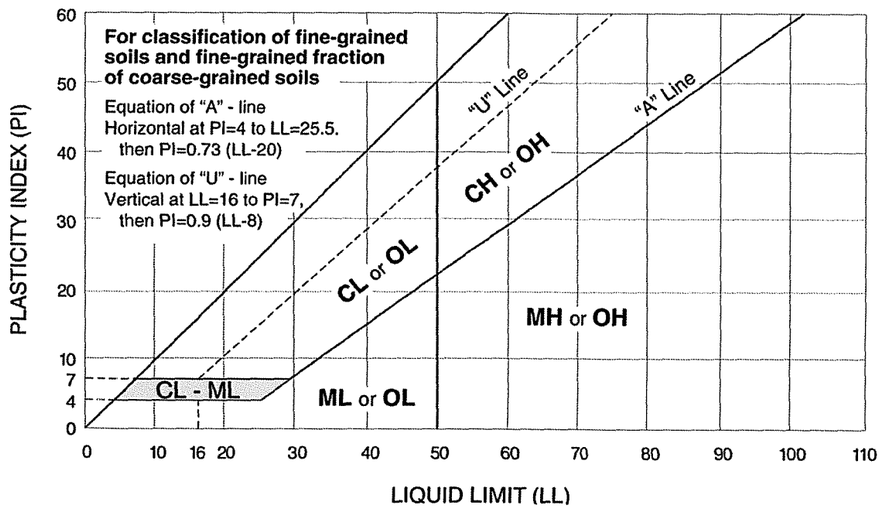
[M] If soil contains ≥ 30% plus No. 200, predominantly gravel, add "gravelly" to group name.

[N] PI ≥ 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.



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Site: Burkesville II
Lease Boundary and Topographic Survey
Cumberland County, Kentucky

True North
Grid North
00°14'00"

Basis of Bearings

The bearing system of this survey is based upon G.P.S. observations made on December 8, 2009 using the National Geodetic Survey monument "Y 245" and the Kentucky State Plane Coordinate System, South Zone, NAD 1983 (1993). This system is grid north.

Tower Location Information

Designation: Burkesville II
Site ID#: None
Horizontal Datum: NAD 1983 (1993)
Latitude: 36°42'44.66" North
Longitude: 85°21'54.10" West
Vertical Datum: NAVD 1988
Ground Elevation: 912.7 feet (278.19 m)
State Plane Coordinates
Northing: 1,778,662.22 feet (542,137.329 m)
Easting: 1,753,262.86 feet (534,395.589 m)

Landowner Information

Landowners: Ryan C. Bryant, Jeremy Frank Wright, Joseph P. Bryant and Maria Jo Bryant
Address: 146 Bluffview Road
Burkesville, Kentucky 42717
Contact Person: Ryan C. Bryant
Cell Phone: 270-406-3610
PVA Map No. 057-00-00-67.03

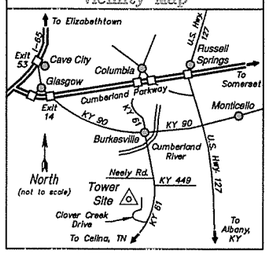
Project Bench Mark

Northing: 1,778,734 feet (542,159 m)
Easting: 1,753,300 feet (534,407 m)
Elevation: 917.13 feet (279.542 m)
Description: A railroad spike in the west side of a 22" white oak, 12" above grade. The benchmark is approximately 81' north of the center of the tower.

Flood Plain Statement

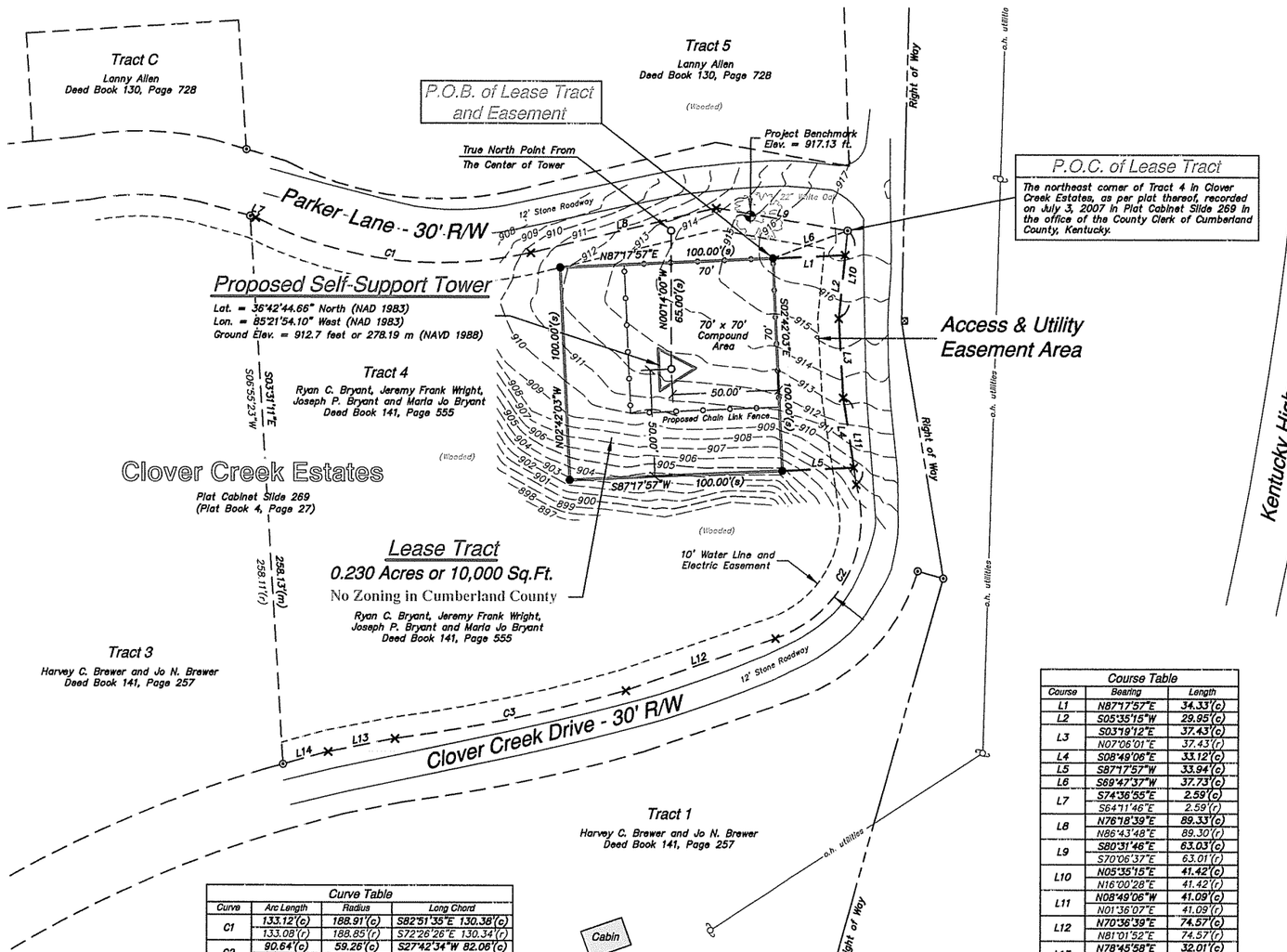
According to the Flood Hazard Boundary Map for the Unincorporated Areas of Cumberland County, Kentucky, Community Panel No. 210060 0006 A, dated December 16, 1977; the subject site does not lies within a Special Flood Zone Area.

Vicinity Map



Directions to Site

From Elizabethtown, Kentucky, travel south on I-65 to Exit 43 and the Cumberland Parkway; travel east on the Cumberland Parkway to Exit 14 and Kentucky Highway 90 at Glasgow; travel east on Kentucky Highway 90 to the Cumberland County Courthouse in Burkesville; continue through Burkesville on Kentucky Highway 90 for 0.6 miles to Kentucky Highway 61; turn right onto Kentucky Highway 61 and travel south, toward Dale Hollow Lake, for 5.5 miles to Clover Creek Drive on the west side of Kentucky Highway 61; turn right onto Clover Creek Drive and travel northerly about 0.3 miles to the tower site on the left side of said drive at the top of the hill.



Curve Table			
Curve	Arc Length	Radius	Long Chord
C1	133.12'(c)	188.91'(c)	S82°51'35"E 130.38'(c)
	133.08'(r)	188.85'(r)	S72°26'26"E 130.34'(r)
C2	90.64'(c)	59.26'(c)	S27°42'34"W 82.06'(c)
	90.64'(r)	59.26'(r)	S38°07'47"W 82.06'(r)
C3	110.85'(c)	716.18'(c)	N78°08'08"E 110.74'(c)
	110.85'(r)	716.19'(r)	N88°33'21"E 110.74'(r)

Course Table		
Course	Bearing	Length
L1	N87°17'57"E	34.33'(c)
L2	S05°35'15"W	29.95'(c)
L3	S03°19'12"E	37.43'(c)
	N07°06'01"E	37.43'(r)
L4	S08°49'06"E	33.12'(c)
L5	S87°17'57"W	33.94'(c)
L6	S69°47'37"W	37.73'(c)
L7	S74°36'55"E	2.59'(c)
	S64°11'46"E	2.59'(r)
L8	N76°18'39"E	89.33'(c)
	N86°43'48"E	89.30'(r)
L9	S80°31'46"E	63.03'(c)
	S70°06'37"E	63.01'(r)
L10	N05°35'15"E	41.42'(c)
	N16°00'28"E	41.42'(r)
L11	N08°49'06"W	41.09'(c)
	N01°36'07"E	41.09'(r)
L12	N70°36'39"E	74.57'(c)
	N81°01'52"E	74.57'(r)
L13	N78°45'58"E	32.01'(c)
	N89°11'11"E	32.01'(r)
L14	S74°22'11"W	21.97'(c)
	S84°47'24"W	21.97'(r)

Surveyor's Notes

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2. No search of public records has been performed to determine any defects and/or ambiguities in the title of the parent tract.
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6. The proposed location of the Burkesville II cell site will be located outside of an incorporated city.

Legend

- ● 5/8" Rebar Set Flush With A Survey Cap Inscribed "D.L. Helms PLS 3386"
- ○ 5/8" Rebar Set About Flush - No Cap
- ⊙ 5/8" Rebar Found Flush With A Survey Cap Inscribed "J. Hagan KY 3712"
- ⊠ 6" Square Concrete Right Of Way Monument Found Exposed 20"
- × Calculated Position - No Monument Found or Set
- ——— Subject Boundaries
- ——— ——— Proposed Easements
- ——— — ——— Tract Boundaries
- ——— ——— Highway 61 Right of Way
- ——— ——— Existing Easements
- Utility Pole
- (m) Electric Meter
- (r) Recorded
- (c) Calculated
- (s) Set

Lease Boundary and Easement Descriptions

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COMMENCING AT a 5/8-inch rebar found flush with a survey cap inscribed "J. Hagan KY 3712" at the northeast corner of said Tract 4; thence South 69 degrees 47 minutes 37 seconds West 37.73 feet to a 5/8-inch rebar set flush with a survey cap inscribed "D.L. Helms PLS 3386" (referred to as a rebar in the remainder of this description) at the POINT OF BEGINNING of this description: thence South 02 degrees 42 minutes 03 seconds East 100.00 feet to a rebar set flush; thence South 87 degrees 17 minutes 57 seconds West 100.00 feet to a rebar set flush; thence North 02 degrees 42 minutes 03 seconds West 100.00 feet to a rebar set flush; thence North 87 degrees 17 minutes 57 seconds East 100.00 feet to the point of beginning and containing 0.230 acres (10,000 square feet), more or less.

TOGETHER WITH an access and utility easement from the above-described 0.230-acre lease tract to Clover Creek Drive; said easement being described as follows: BEGINNING AT a 5/8-inch rebar set flush with a survey cap inscribed "D.L. Helms PLS 3386" at the northeast corner of the above-described 0.230-acre lease tract; thence North 87 degrees 17 minutes 57 seconds East 34.33 feet to the western boundary of Clover Creek Drive; thence along said western boundary the following three (3) courses: (1) South 05 degrees 35 minutes 15 seconds West 29.95 feet; (2) South 03 degrees 19 minutes 12 seconds East 37.43 feet and (3) South 08 degrees 49 minutes 06 seconds East 33.12 feet; thence South 87 degrees 17 minutes 57 seconds West 33.94 feet to a 5/8-inch rebar set flush with said Helms survey cap at the southeast corner of said 0.230-acre lease tract; thence North 02 degrees 42 minutes 03 seconds West 100.00 feet to the point of beginning.

The bearing system of these descriptions is based upon the Kentucky State Plane Coordinate System, South Zone, NAD 1983 (1993), as determined by G.P.S. observations made on December 8, 2009 using the National Geodetic Survey monument "Y 245". These descriptions are based upon a survey completed by Landmark Surveying Co., Inc. and certified by Darren L. Helms, P.L.S. 3386, on January 20, 2010. This survey is hereby referenced and made a part of these descriptions.

SOURCE OF TITLE: Being a portion of and lying entirely within the land described in deed to Ryan C. Bryant, Jeremy Frank Wright, Joseph P. Bryant and Maria Jo Bryant on September 20, 2007 in Deed Book 141, page 555 in the office of the County Clerk of Cumberland County, Kentucky.

Surveyor's Certification

I hereby certify that this plat has been compiled from a survey actually made upon the ground under my direct supervision on December 8, 2009 by the method of random traverse with sideshots. The unadjusted precision ratio of the traverse was 1:29,400 and it was not adjusted. This survey is a Class B survey and the accuracy and precision of this survey meets all the specifications of this class.

Darren L. Helms
Darren L. Helms, P.L.S. 3386

JAN. 20, 2010
Date

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

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

Contour Interval = 1-foot

Landmark Surveying Co., Inc.
15 N.E. 3rd Street
Washington, Indiana 47501
(812) 257-0850
Email: landmark57@sbcglobal.net
Project No. 09-12-0188

Lease Boundary Survey
5451 Celina Road
Burkesville, Kentucky 42717

Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42701

REVISIONS	DATE

DATE 1-20-10
DRAWN BY A. Winkler
CHECKED BY D.L.Helms

SHEET NO. 1 OF 1 SHEETS

FILE NO. burkes.dwg

BLUEGRASS CELLULAR

APPROVAL SIGNATURES

BLUEGRASS CELLULAR PROJECT SUPERVISOR: _____

DATE: _____

CITY REPRESENTATIVE: _____

TITLE: _____

DATE: _____

PROPERTY OWNER/OWNERS: _____

_____

DATE: _____

TOWER OWNER/OWNERS: _____

_____

DATE: _____

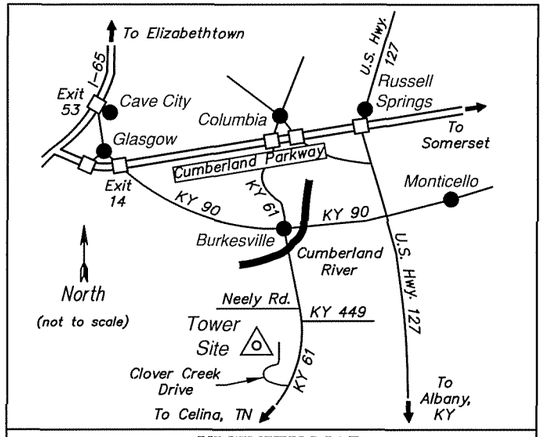
SITE NAME: BURKESVILLE II

911 ADDRESS: 5451 CELINA RD.
BURKESVILLE, KY. 42717

COUNTY: CUMBERLAND

TOWER LATITUDE & LONGITUDE

N36* 42' 44.66" W85* 21' 54.10"



VICINITY MAP
NOT TO SCALE

DIRECTIONS TO SITE

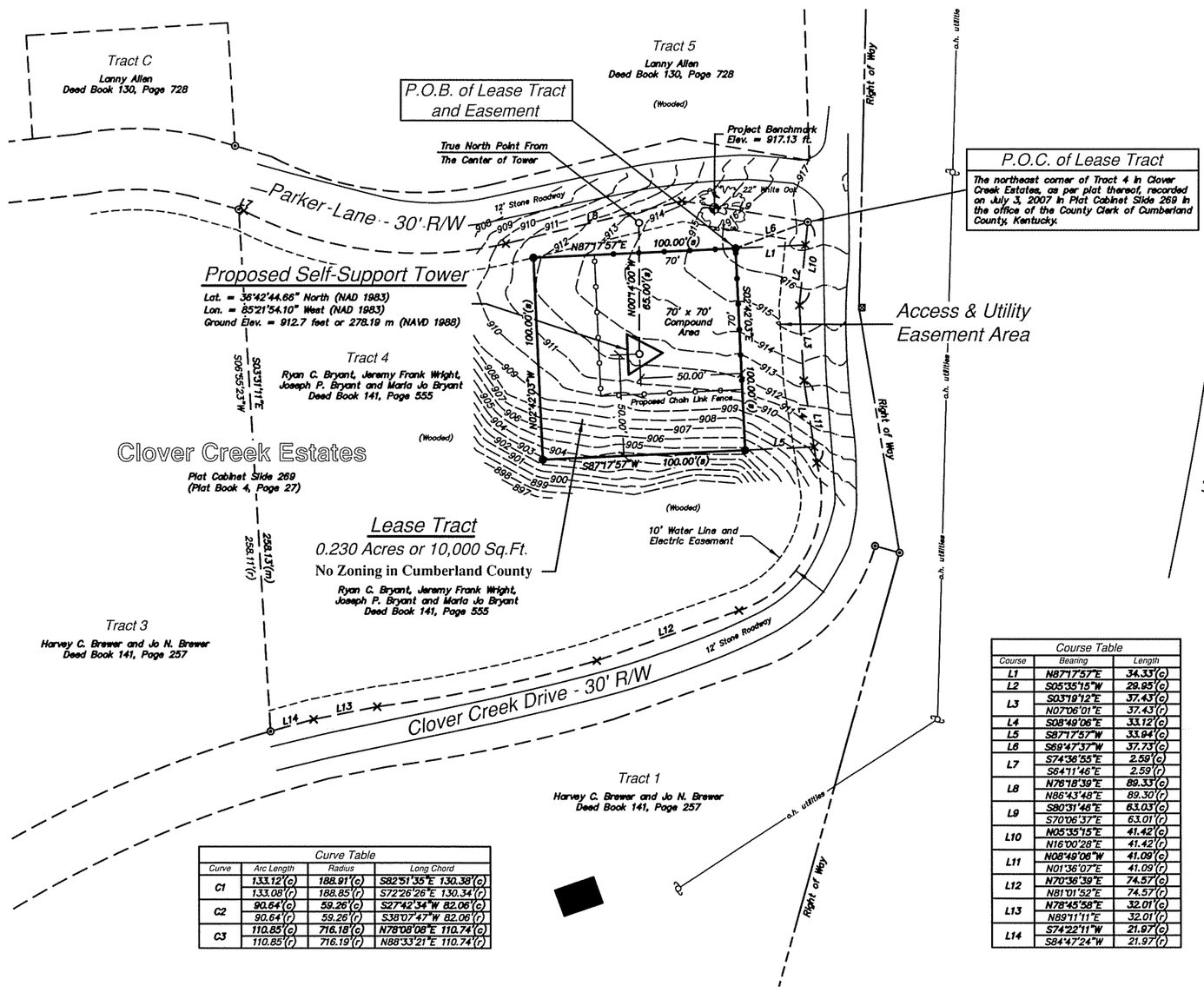
From Elizabethtown, Kentucky: travel south on I-65 to Exit 43 and the Cumberland Parkway; travel east on the Cumberland Parkway to Exit 14 and Kentucky Highway 90 at Glasgow; travel east on Kentucky Highway 90 to the Cumberland County Courthouse in Burkesville; continue through Burkesville on Kentucky Highway 90 for 0.6 miles to Kentucky Highway 61; turn right onto Kentucky Highway 61 and travel south, toward Dale Hollow Lake, for 5.5 miles to Clover Creek Drive on the west side of Kentucky Highway 61; turn right onto Clover Creek Drive and travel northerly about 0.3 miles to the tower site on the left side of said drive at the top of the hill.

SHEET INDEX

SITE DATA

PROPERTY OWNER:	Ryan Bryant Burkesville, KY. (270) 406-3610
TOWER OWNER:	BLUEGRASS CELLULAR (270) 769-0339
POWER COMPANY:	TRI-COUNTY ELECTRIC CORP. (270) 864-3871
TELEPHONE COMPANY:	DUO COUNTY TELEPHONE COOP (270) 433-2121
BLUEGRASS PROJECT SUPERVISOR:	JEFF BREWER (270) 734-3436
RB DESIGN	ROBIN BECKER (502)231-3656 OFFICE/FAX

Site: Burkesville II
Lease Boundary and Topographic Survey
Cumberland County, Kentucky



Curve Table			
Curve	Arc Length	Radius	Long Chord
C1	133.12'(c)	188.91'(c)	S82°51'35"E 130.39'(c)
	133.08'(r)	188.85'(r)	S72°26'26"E 130.34'(r)
C2	90.64'(c)	59.26'(c)	S27°42'34"W 82.06'(c)
	90.64'(r)	59.26'(r)	S38°07'47"W 82.06'(r)
C3	110.85'(c)	716.18'(c)	N78°06'06"E 110.74'(c)
	110.85'(r)	716.19'(r)	N88°33'21"E 110.74'(r)

Course Table		
Course	Bearing	Length
L1	N87°17'57"E	34.33'(c)
L2	S05°35'15"W	29.85'(c)
L3	S03°19'12"E	37.43'(c)
L4	N07°06'01"E	37.43'(c)
L5	S87°17'57"W	33.12'(c)
L6	S89°47'37"W	33.94'(c)
L7	S74°36'35"E	37.73'(c)
L8	S64°11'46"E	2.59'(c)
L9	N78°18'39"E	89.33'(c)
L10	N86°43'46"E	89.30'(c)
L11	S80°31'46"E	63.03'(c)
L12	S70°06'37"E	63.01'(c)
L13	N05°35'15"E	41.42'(c)
L14	N16°00'28"E	41.42'(c)
	N08°49'06"W	41.09'(c)
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GRAPHIC SCALE

0 30 60 90 120

(IN FEET)
1 inch = 30 ft.

Contour Interval = 1-foot

True North
Grid North
00°14'00"

Basis of Bearings

The bearing system of this survey is based upon G.P.S. observations made on December 8, 2009 using the National Geodetic Survey monument "Y 245" and the Kentucky State Plane Coordinate System, South Zone, NAD 1983 (1993). This system is grid north.

Tower Location Information

Designation: Burkesville II
Site ID#: None
Horizontal Datum: NAD 1983 (1993)
Latitude: 36°42'44.66" North
Longitude: 85°21'54.10" West
Vertical Datum: NAVD 1988
Ground Elevation: 912.7 feet (278.19 m)
State Plane Coordinates
Northing: 1,778,662.22 feet (542,137.329 m)
Easting: 1,753,262.86 feet (534,395.589 m)

Landowner Information

Landowners: Ryan C. Bryant, Jeremy Frank Wright, Joseph P. Bryant and Maria Jo Bryant
Address: 146 Bluffview Road
Burkesville, Kentucky 42717
Contact Person: Ryan C. Bryant
Cell Phone: 270-406-3610
PVA Map No. 057-00-00-67.03

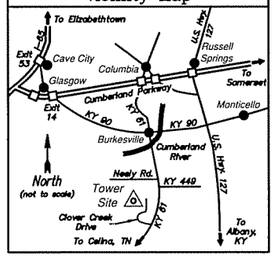
Project Bench Mark

Northing: 1,778,734 feet (542,159 m)
Easting: 1,753,300 feet (534,407 m)
Elevation: 917.13 feet (279.542 m)
Description: A railroad spike in the west side of a 22" white oak, 12" above grade. The benchmark is approximately 81' north of the center of the tower.

Flood Plain Statement

According to the Flood Hazard Boundary Map for the Unincorporated Areas of Cumberland County, Kentucky; Community Panel No. 210060 0006 A, dated December 16, 1977; the subject site does not lies within a Special Flood Zone Area.

Vicinity Map



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Darren L. Helms, P.L.S. 3388

Date

Landmark Surveying Co., Inc.
15 N.E. 3rd Street
Washington, Indiana 47501
(812) 257-0850
Email: landmark97@adelphia.net
Project No. 09-12-0188

Lease Boundary Survey
5451 Celina Road
Burkesville, Kentucky 42717

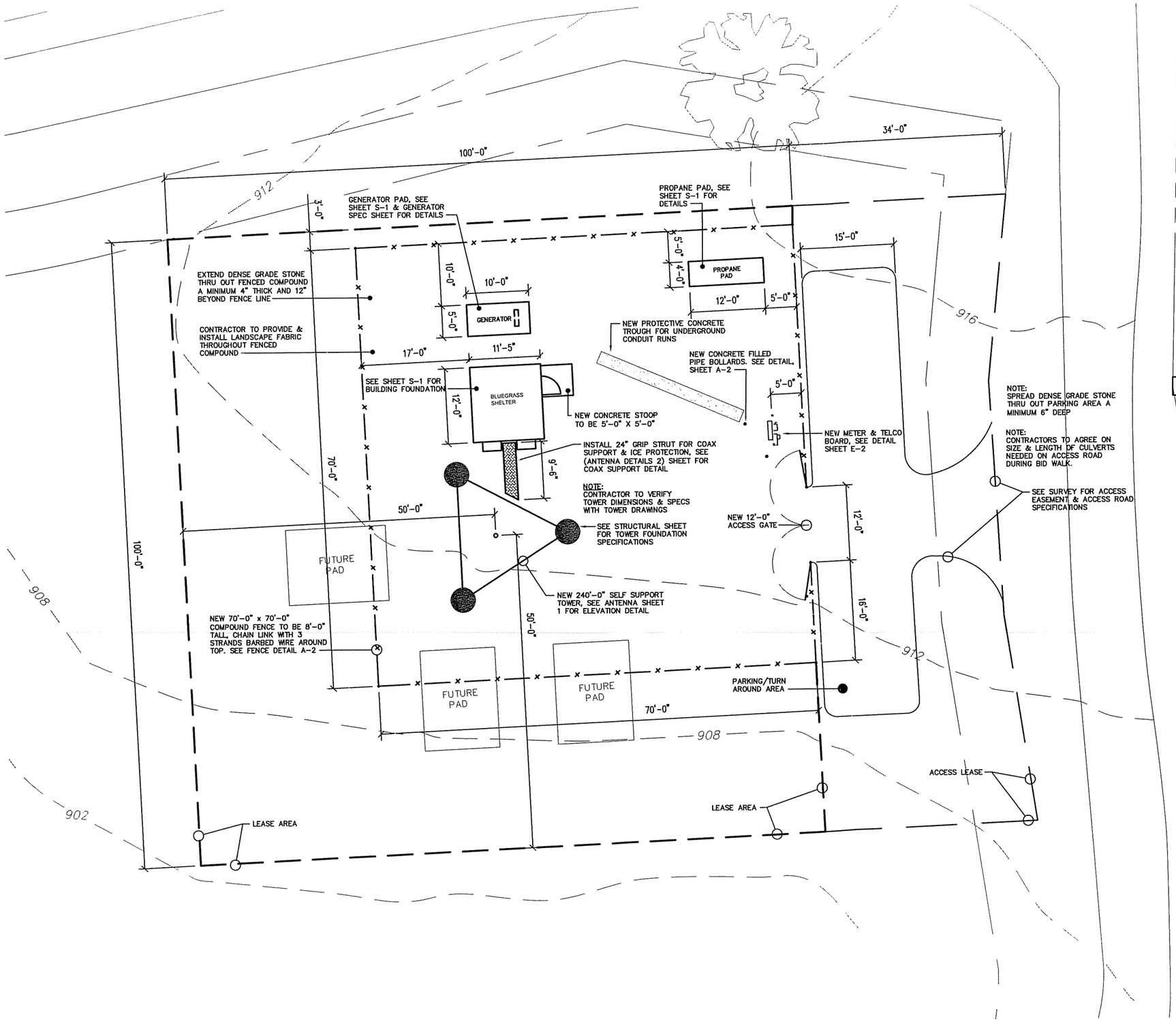
Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42701

REVISIONS	DATE

DATE 1-20-10 | DRAWN BY A. Winkler | CHECKED BY D.L.Helms

SHEET NO. 1 OF 1 SHEETS

FILE NO. burkes.dwg



SITE PLAN

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

GENERAL NOTES:

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

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

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

4) 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..

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

6) 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.

7) FOR GRADING DETAILS, SEE GENERAL NOTESHEET

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

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

RBS INC
6403 MERCURY DRIVE LOUISVILLE, KY. 40291
(502) 968-9427 F ax(502) 231-3555

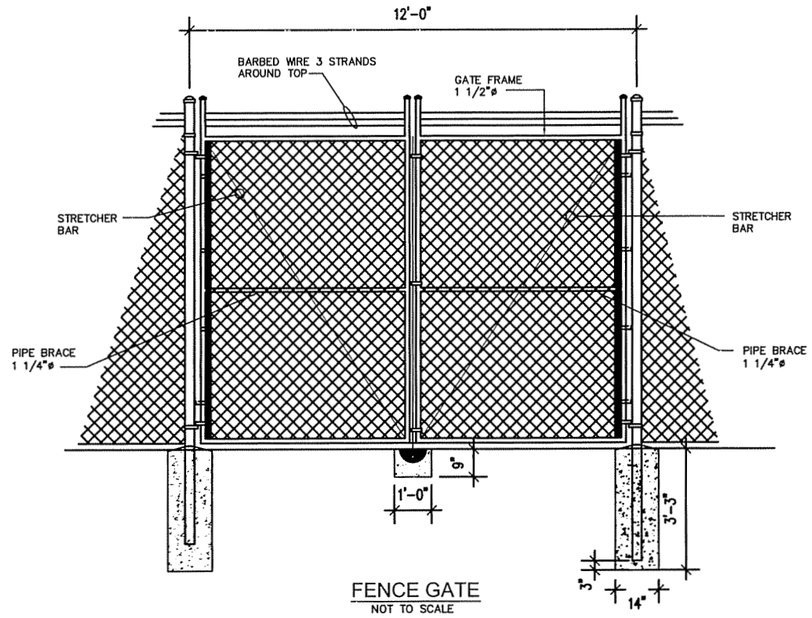
REVISION

NO.	DATE

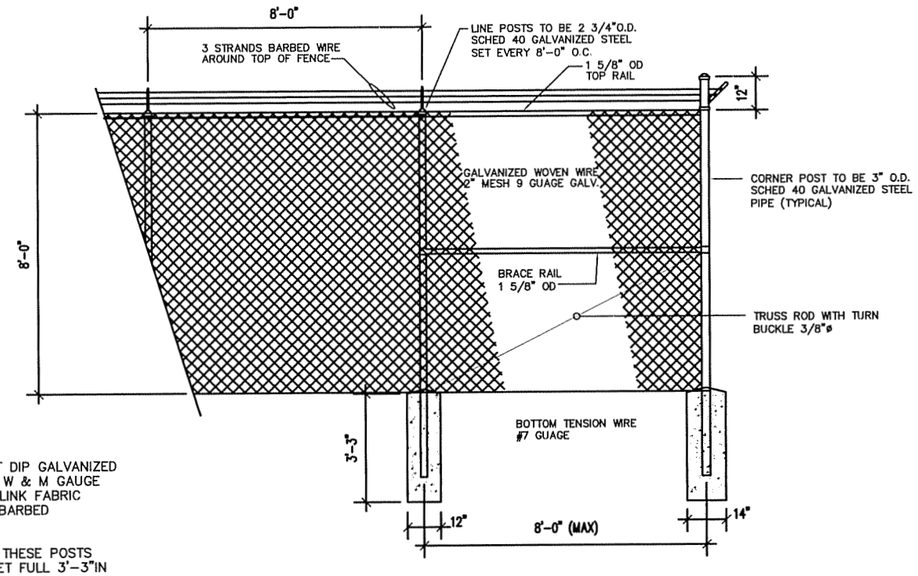
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BURKESVILLE II
5451 CELINA RD. BURKESVILLE, KY. 42717

DRAWN BY: R. BECKER
ISSUE DATE: 1-25-10
SCALE: LISTED

SHEET NUMBER
A-1



FENCE GATE
NOT TO SCALE



FENCE DETAIL END POLES
NOT TO SCALE

CHAIN LINK FENCING NOTES:

1 FABRIC: THE FABRIC SHALL BE COMPOSED OF INDIVIDUAL HOT DIP GALVANIZED WIRE PICKETS HELICALLY WOUND AND INTERWOVEN FROM NO.9 W & M GAUGE COPPER BEARING STEEL WIRE TO FORM A CONTINUOUS CHAIN LINK FABRIC HAVING A 2" MESH. TOP EDGES SHALL HAVE A TWISTED AND BARBED

2 POSTS: SHALL BE 2 3/4" O.D. SS 40 PIPE HOT GALVINIZED. THESE POSTS SHALL BE SPACED APPROXIMATELY 8'-0" ON CENTERS AND SET FULL 3'-3"IN BELL – SHAPED CONCRETE FOOTING, CROWNED AT TOP TO SHED WATER.

3 TOP RAIL: SHALL BE 1 5/8" O.C. STANDARD PIPE HOT GALVANIZED AND SHALL BE FURNISHED IN RANDOM LENGTHS AVRERAGING NOT LESS THAN 20".

4 FABRIC TIES: FOR ATTACHING FABRIC TO LINE POST, TOP RAIL OR TOP WIRE, SHALL BE ALUMINUM STRIP OF WIRE OF APPROVED GUAGE AND DESIGN. USED ON TOP OF RAIL EVERY 24" AND ONE POST EVERY 12".

5 EXTENSION ARMS: CAST STEEL GALVANIZED TO ACCOMODATE 3 STRANDS OF BARB WIRE, SINGLE ARM SLOPED TO 45°, AND VERTICAL ON TOP OF SWING GATES.

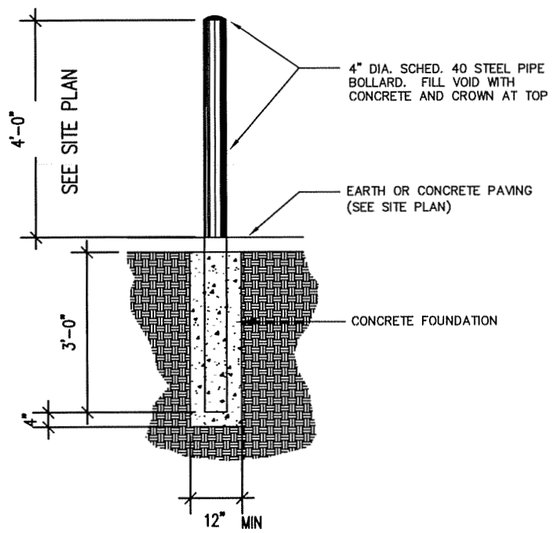
6 BARBED WIRE (STEEL): ASTM A121 GALVINIZED STEEL, 12 GUAGE THICK WIRE, 3 STRANDS 4 POINTS AT 3" O.C.

7 SWING GATE POSTS: SHALL BE 3" O.C. STANDARD HOT GALVINIZED, WEIGHING 5.79 LBS. PER FOOT.

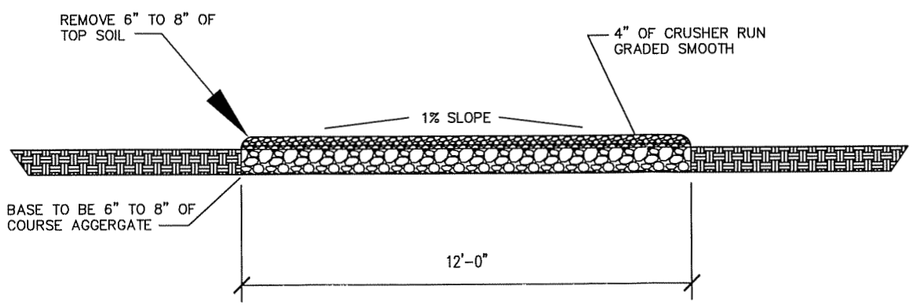
8 GATES: (a) SWING GATES: 2" O.C. STANDARD PIPE WITH INTERNAL BRACING OF 1 5/8" O.D. STANDARD PIPE; WELDED AT ALL JOINTS TO PROVIDE RIGID WATERTIGHT CONSTRUCTION. FABRIC SAME AS FENCE.

9 FENCE TO BE 100% ERECTED WITHIN TEN(10) DAYS OF COMPLETION OF CONSTRUCTION, IF TIME FRAME CANNOT BE MET, PLEASE NOTIFY PROJECT SUPERVISOR.

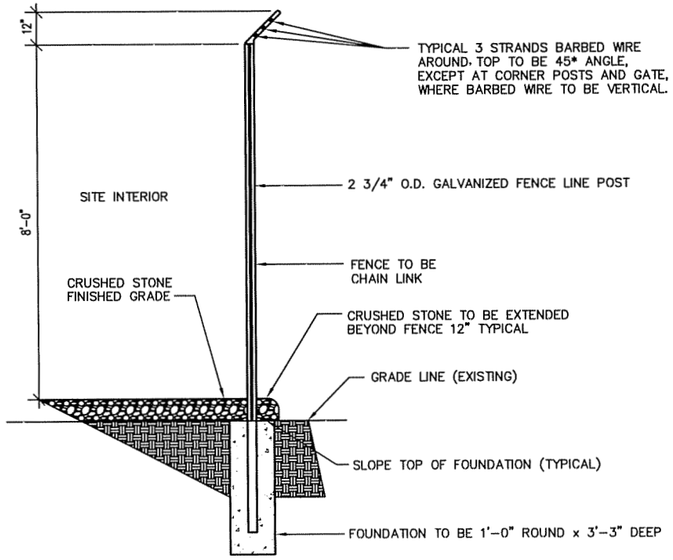
10 FENCE STOPS TO BE PLACED ON INSIDE OF COMPOUND PER ACCESS GATE SPECIFICATIONS.



BOLLARD DETAIL
NOT TO SCALE



ROAD DETAIL
NOT TO SCALE



FENCE DETAIL LINE POLES
NOT TO SCALE

BTS
6405 MERCURY DRIVE LOUISVILLE, KY. 40291
(502)968-3427 Fax(502)231-3656

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BURKESVILLE II
5451 CELINA RD. BURKESVILLE, KY. 42717

DRAWN BY: R. BECKER
ISSUE DATE: 1-25-10
SCALE: LISTED

SHEET NUMBER
A–2

BLUEGRASS CELLULAR GENERAL NOTES & ANTENNA SPECS

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

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

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

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

LINES ARE TO BE SECURED TO ICE BRIDGE

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

ALL COAX CONNECTIONS ARE TO BE WEATHER PROOFED.

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

ALL TRASH AND REFUGE IS TO BE PROPERLY DISPOSED OF.

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

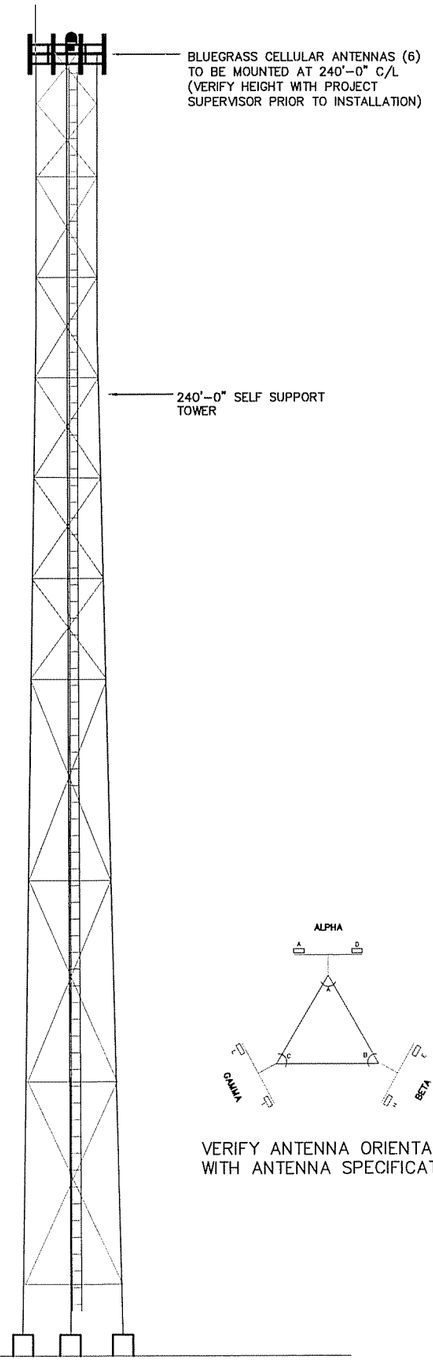
GENERAL CONTRACTOR TO MOUNT ANTENNA MOUNTS AT TOP OF STRUCTURE OR TOWER BY BLUEGRASS CELLULAR SPECIFICATIONS.

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 & ANTENNAS COMPLETE.

CONTRACTOR TO INSTALL LIGHTING SYSTEM PER FAA ADVISORY 70/7460-1K CHANGE 2, OBSTRUCTION MARKING AND LIGHTING, A MED-DUAL SYSTEM - CHAPTERS 4,8(M-DUAL), & 12



SELF SUPPORT TOWER ELEVATION (TYPICAL)

VERIFY ANTENNA ORIENTATION WITH ANTENNA SPECIFICATIONS

TOWER HEIGHT & TYPE

240'-0" SELF SUPPORT TOWER

ANTENNA SPECS

	TYPE	SIZE L x W x D	NUMBER	AZIMUTH	MOUNTING HEIGHT
ANTENNA (PRIMARY)	PENDING	L=78.6 W=10.3 D=4.6	6	100*, 215*, 350*	240'-0" C/L VERIFY WITH CONSTRUCTION SUPERVISOR
ANTENNA (SECONDARY)					

ANTENNA MOUNTING HARDWARE SPECS

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

ANTENNA TRANSMISSION LINES SPECS

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

DISH SPECS

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

DISH MOUNT SPECS

	TYPE	SIZE	NUMBER
MOUNT #1			
MOUNT #2			

DISH TRANSMISSION LINES

	TYPE	SIZE	NUMBER
TRANSMISSION LINE #1			
TRANSMISSION LINE #2			

ANTENNA SYNOPSIS

* ANTENNAS TO HAVE A 2*E
* ANTENNA FREQUENCY 880.00 - 890.00

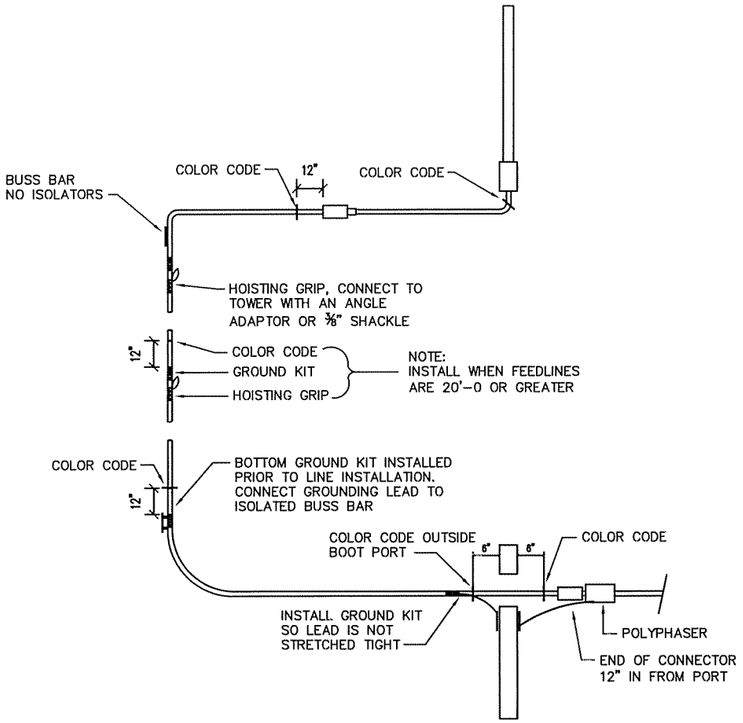
BRE ENGINEERING
6405 MERCURY DRIVE LOUISVILLE, KY. 40291
(502)968-8427 FAX(502)231-3855

NO.	DATE	REVISION

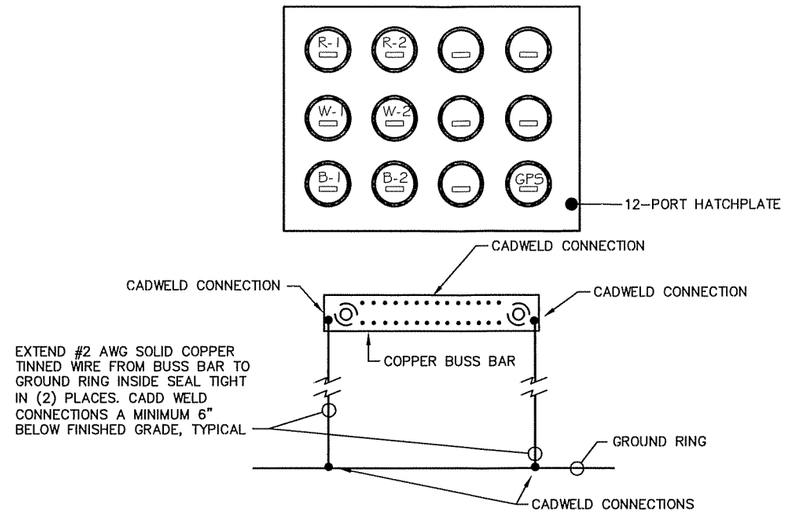
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BURKESVILLE II
5451 CELINA RD. BURKESVILLE, KY. 42717

DRAWN BY: R. BECKER
ISSUE DATE: 1-25-10
SCALE: LISTED

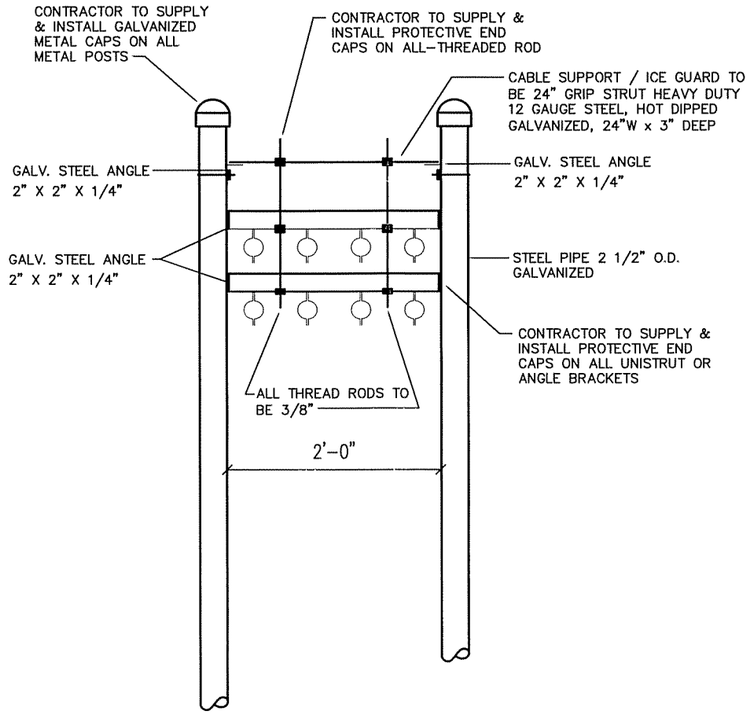
SHEET NUMBER
ANTENNA DETAILS 1



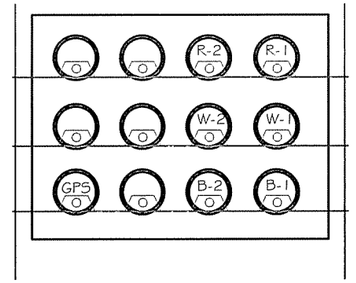
COLOR CODING DETAIL
NO SCALE



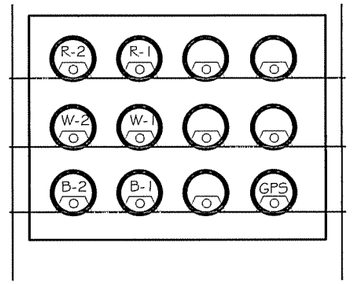
BOOT PORT GROUNDING DETAIL
NO SCALE



ICE BRIDGE / COAX SUPPORT DETAIL
NO SCALE



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



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

BASE DESIGN
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(502)969-3427 Fax(502)231-3856

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5451 CELINA RD. BURKESVILLE, KY. 42717

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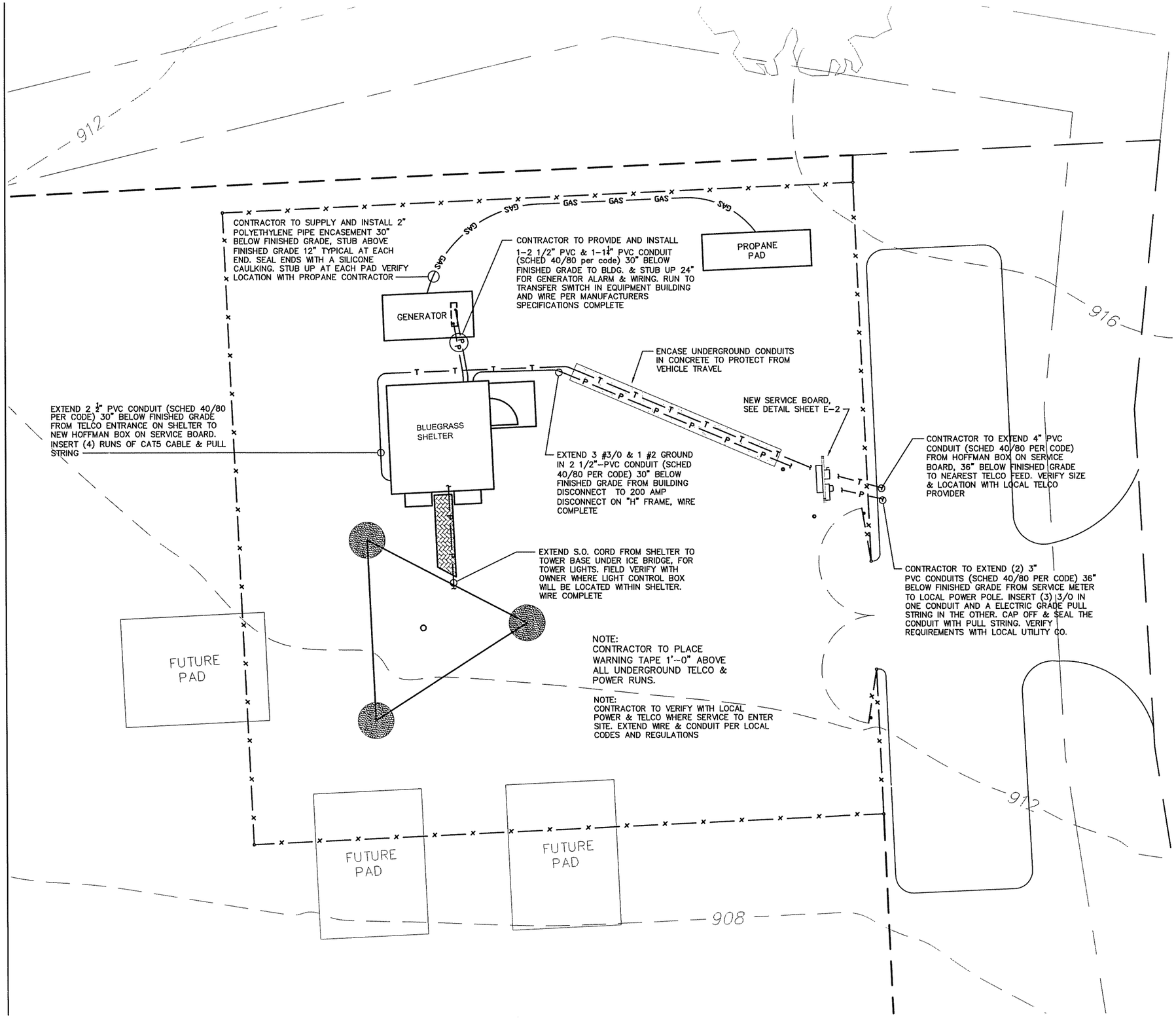
SHEET NUMBER
ANTENNA DETAILS 2



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

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

GENERAL ELECTRICAL NOTES:

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

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

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

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

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

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

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

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

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

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

11) IF CONDUIT RUNS BURIED LESS THAN REQUIRED DEPTHS, CONTACT BLUEGRASS CELLULAR FOR FURTHER INSTRUCTIONS

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. (TAKE PICTURES)

SYMBOLS LEGEND

- P — POWER
- G — GAS
- T — TELEPHONE
- X — FENCE
- SWITCH (DISCONNECT)
- METER PACK

SITE PLAN- ELECTRICAL

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

RBI DESIGN
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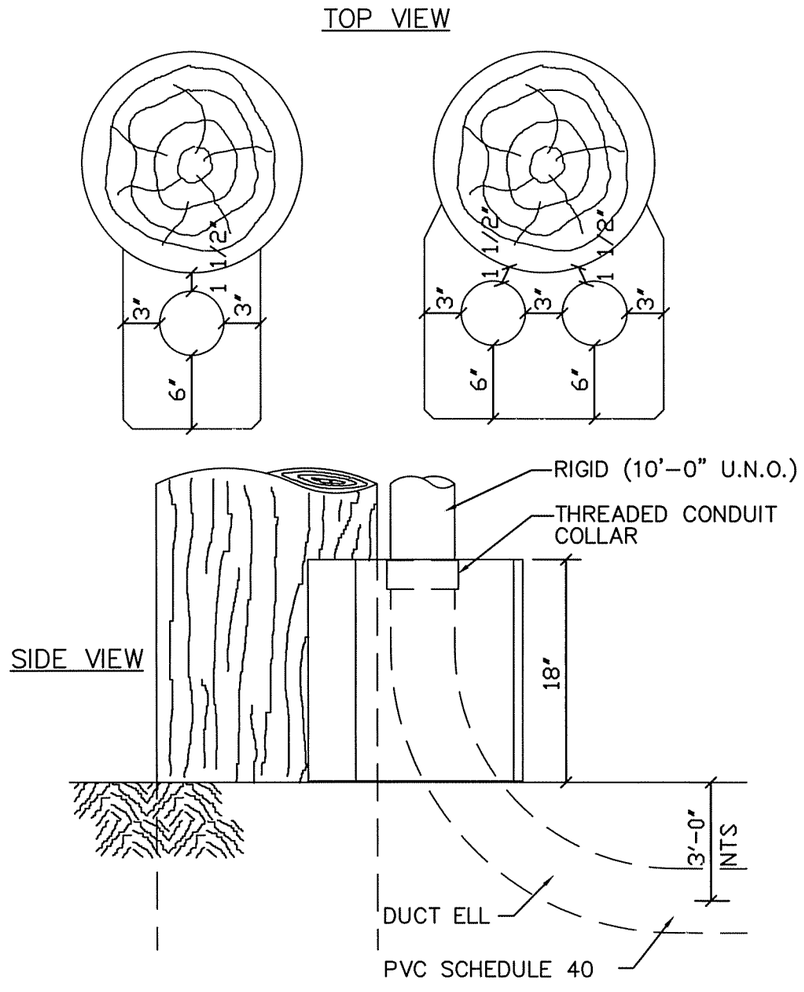
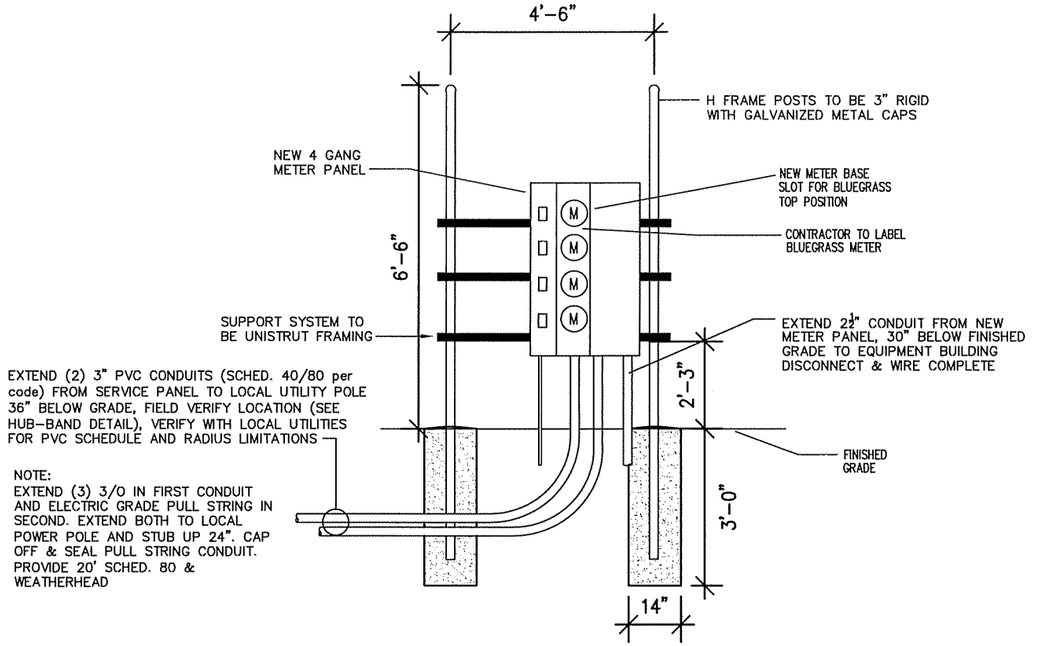
SHEET NUMBER
E-1



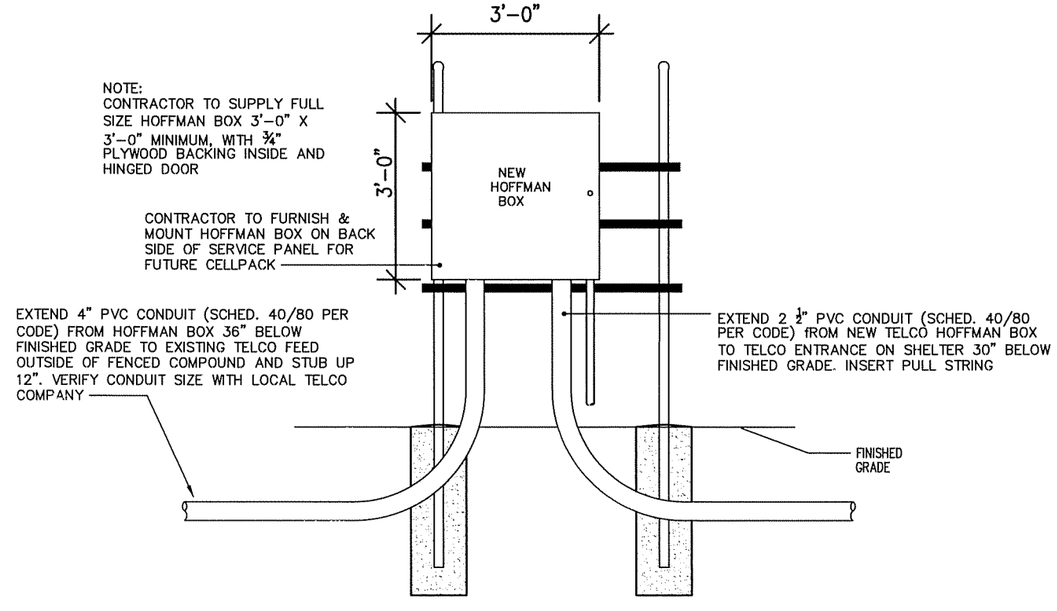
HUB-BAND DETAIL

NO SCALE



SERVICE BOARD DETAIL

NO SCALE



BACKBOARD DETAIL

NO SCALE

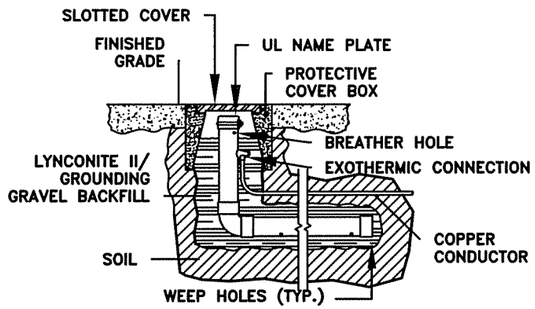
RFBD DESIGN
6403 MERCURY DRIVE LOUISVILLE, KY 40291
(502)968-3427 Fax(502)231-3656

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BURKESVILLE II
5451 CELINA RD. BURKESVILLE, KY. 42717

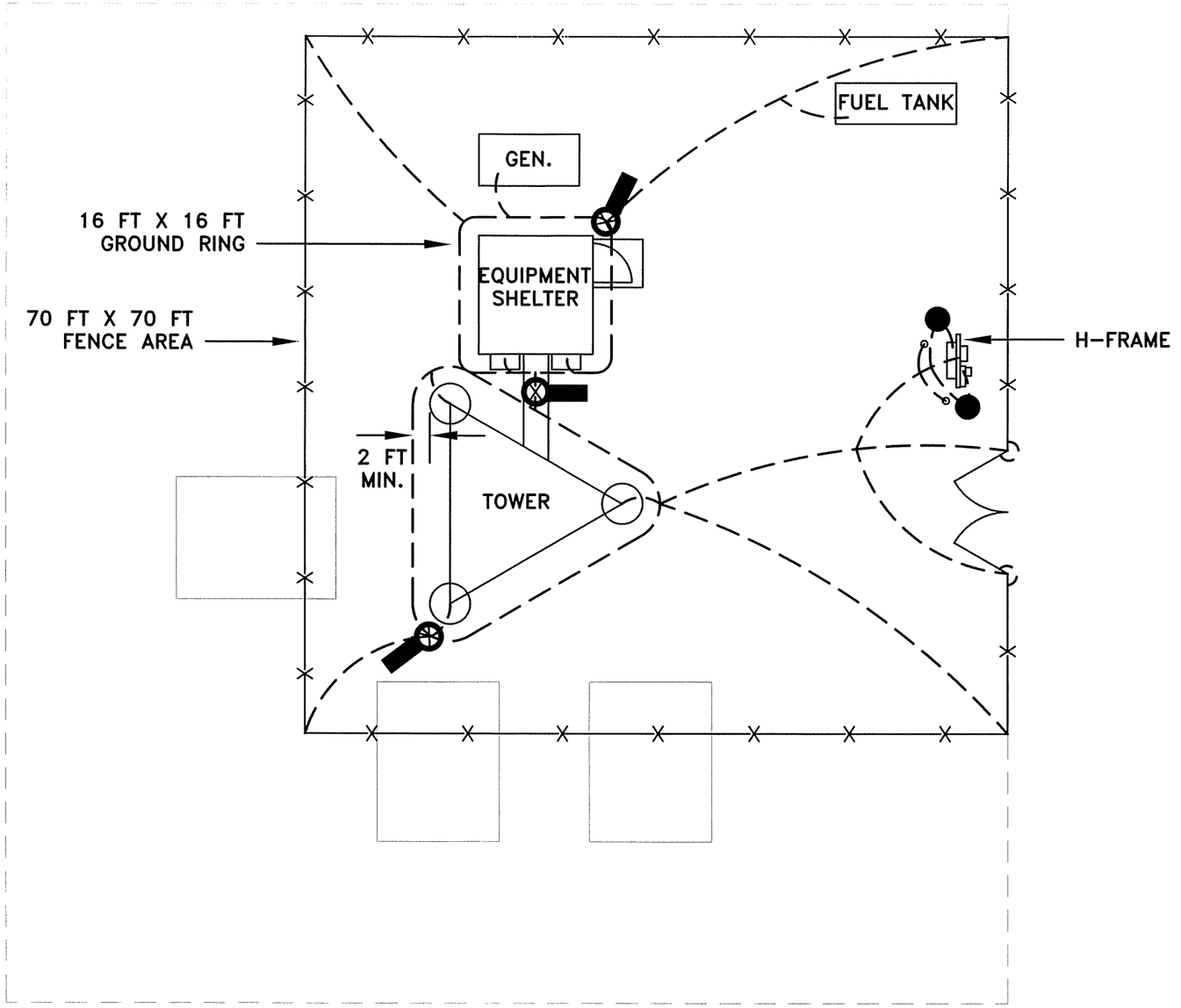
DRAWN BY: R. BECKER
ISSUE DATE: 1-25-10
SCALE: LISTED

SHEET NUMBER
E-2



L-SHAPE MODEL
LYNCOLE XIT GROUNDING
(800) 962-2610

DETAIL



NOTES:

FENCE LINE

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

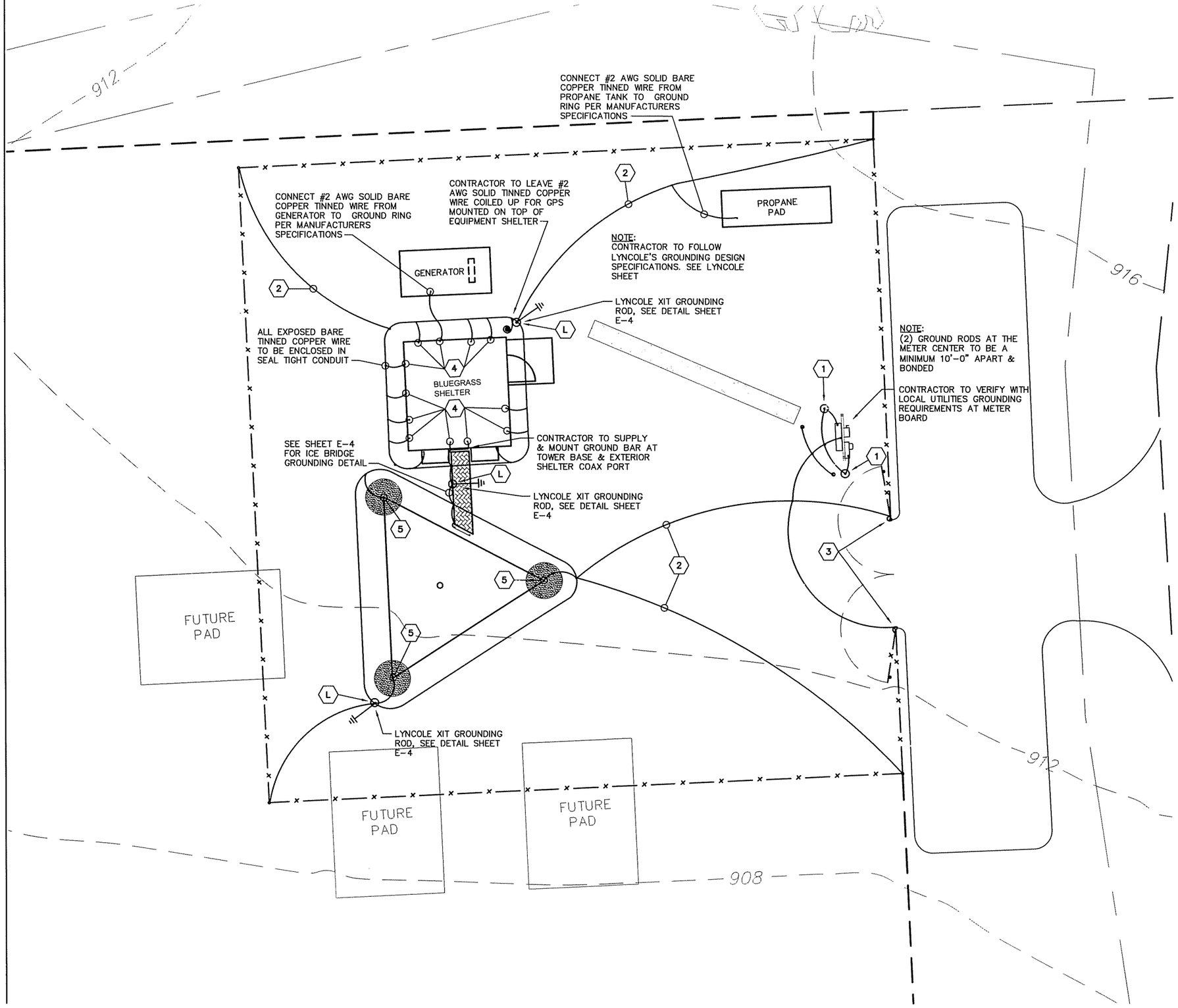
ALL BENDS IN GROUND CONDUCTORS TO BE MADE WITH 12 IN. RADIUS OR LARGER

K2L-10CS (SEE DETAIL)

3/4 IN. X 10 FT. DRIVEN ROD

LYNCOLE
TECHNICAL SERVICES
3547 VOYAGER STREET, SUITE 204
TORRANCE, CA. 90503
(800)962-2610 FAX (310)214-1114
ENGINEERING@LYNCOLE.COM

CLIENT / END USER: BLUEGRASS CELLULAR			
DRAWING: 1	PROJECT NAME: BURKESVILLE		
TITLE: GROUNDING OPTION			
LOCATION: CITY, STATE: BURKESVILLE, KY		CALCULATED RESISTANCE: < 5 OHMS	
DRAWN BY: DCN	APPROVED BY:	DATE: 1/27/10	
SOIL DATA PROVIDED BY: TERRACON	REFERENCE NUMBER: N/A	SCALE: NONE	LTS NUMBER: 100016



GENERAL ELECTRICAL NOTES:

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

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

NOTE:
CONTRACTOR TO PROVIDE WARNING TAPE IN ALL POWER & TELCO TRENCHES, 12" ABOVE CONDUIT RUNS, BUT BELOW FINISHED GRADE.

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

KEYNOTES:

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

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

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

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

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

(5) FOR TOWER FRAME GROUNDING, REMOVE GALVANIZED COATING COMPLETELY AT SPOT TO "CAD WELD" TO AND CLEAN. #2 AWG SOLID BARE TINNED COPPER CONDUCTOR TO BE CAD WELDED APPROXIMATELY 1'-0" ABOVE FOUNDATION OR AT FLANGE IF PROVIDED BY TOWER MANUFACTURER.

EXTEND CONDUCTOR TO GROUND RING. RIGHT ANGLES NOT ACCEPTED ALL BENDS TO BE SWEEPING.

SITE PLAN-GROUNDING

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

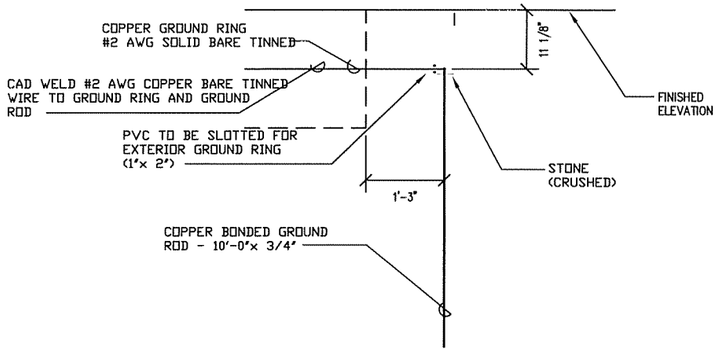
R.B. DESIGN
6405 MERCURY DRIVE LOUISVILLE, KY. 40291
(502)239-3427 Fax(502)231-2656

REVISION | DATE | NO.

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BURKESVILLE II
5451 CELINA RD. BURKESVILLE, KY. 42717

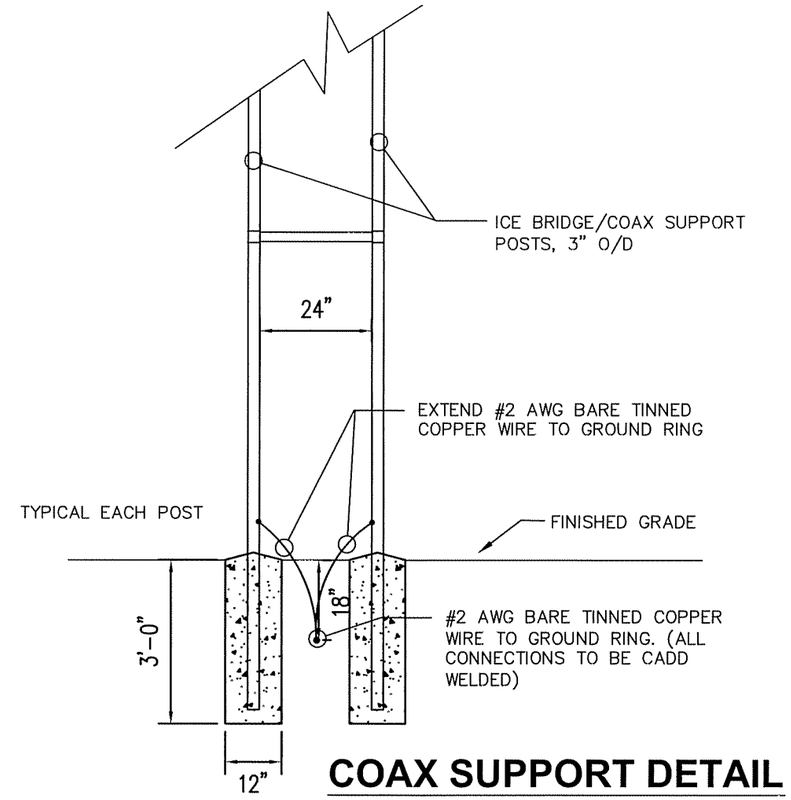
DRAWN BY: R. BECKER
ISSUE DATE: 1-25-10
SCALE: LISTED

SHEET NUMBER
E-3



GROUND ROD DETAIL

NO SCALE



COAX SUPPORT DETAIL

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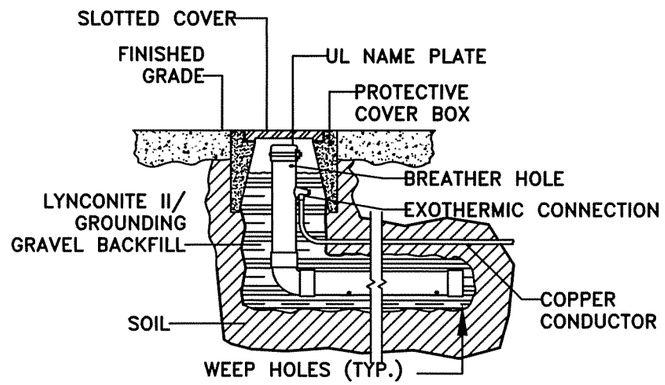
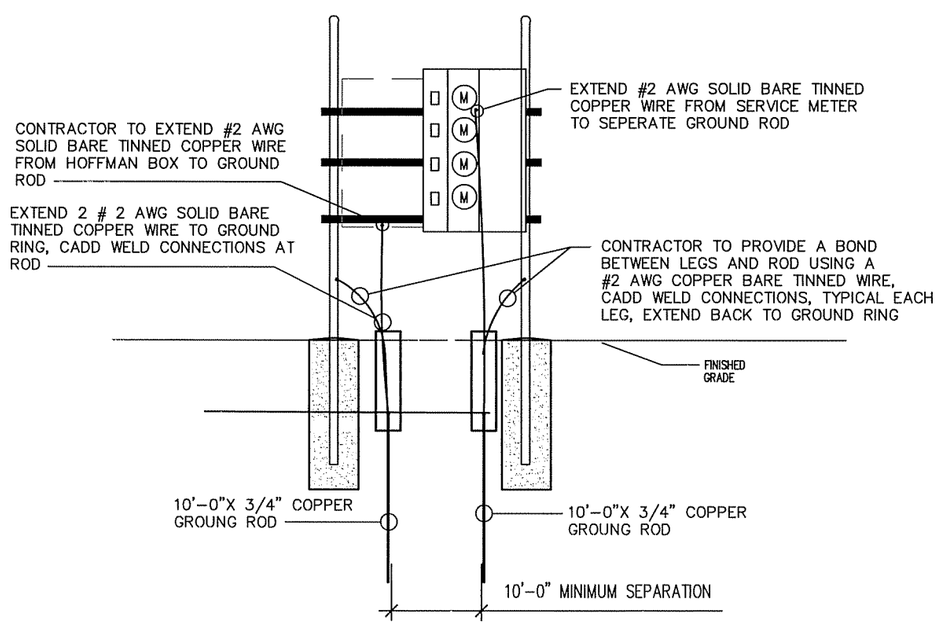


L-SHAPE MODEL
LYNCOLE XIT GROUNDING
(800) 962-2610

LYNCOLE XIT ROD DETAIL

NO SCALE



SERVICE BOARD DETAIL

NO SCALE

R.A.B. DESIGN
6405 MERCURY DRIVE LOUISVILLE, KY. 40291
(502)968-3427 Fax(502)231-3856

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
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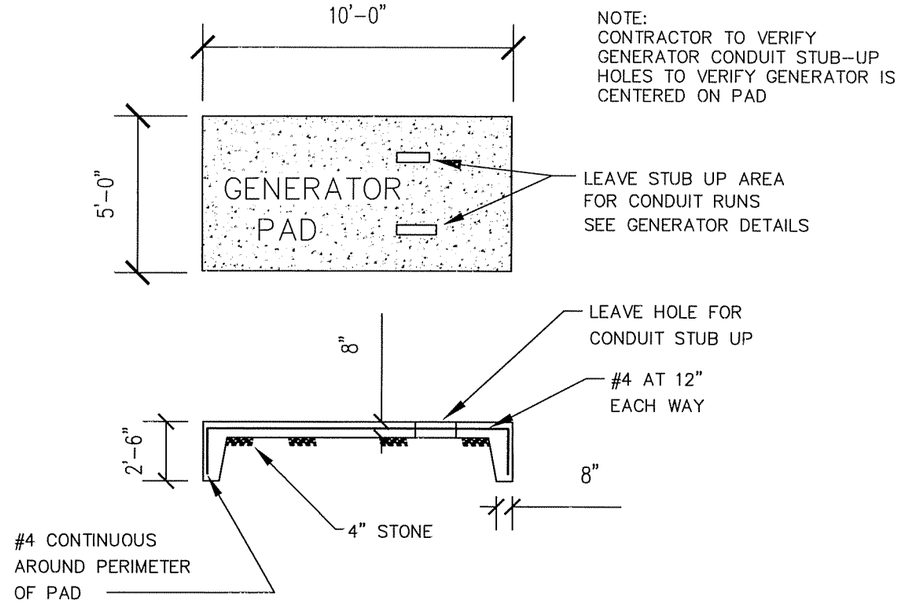
R. BECKER	1-25-10	LISTED

SHEET NUMBER
E-4



FOUNDATION DETAIL

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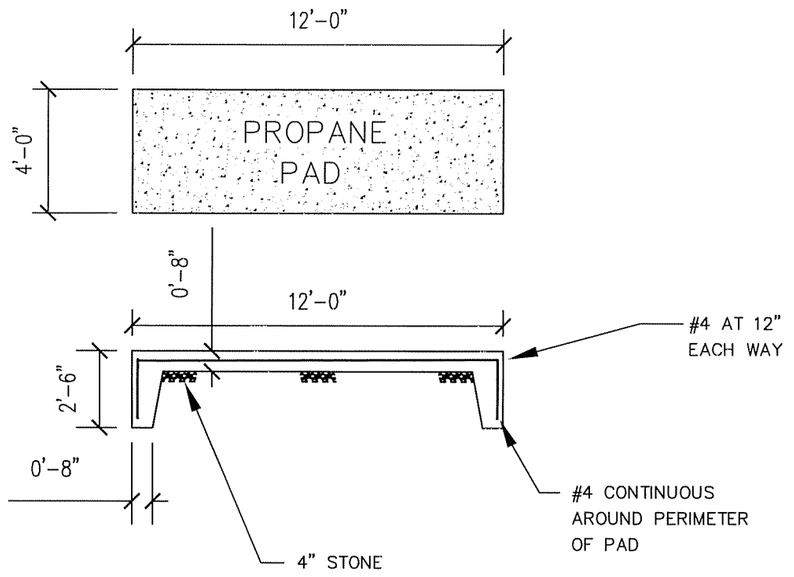

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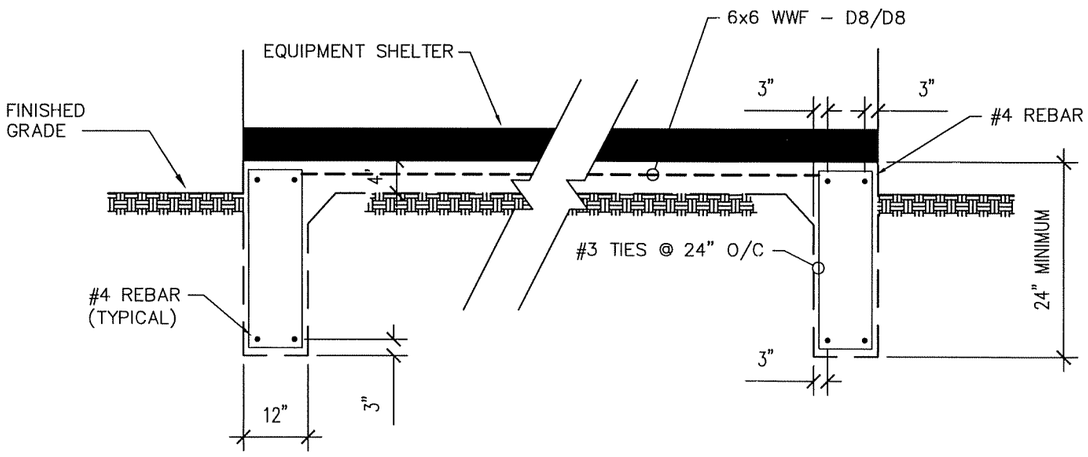
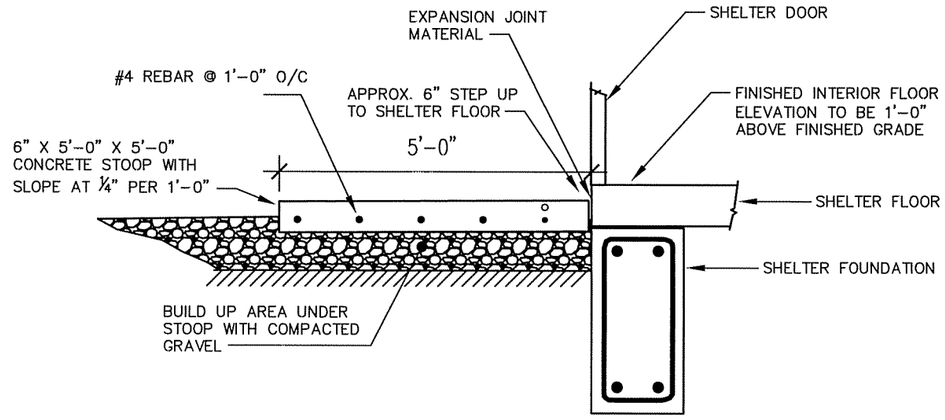


SHELTER FOUNDATION PLAN

NO SCALE



CONCRETE STOOP DETAIL

NO SCALE

RBDESIGN
6405 MERCURY DRIVE LOUISVILLE, KY 40291
(502)593-3427 Fax(502)231-3856

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BURKESVILLE II
5451 CELINA RD. BURKESVILLE, KY. 42717

DRAWN BY: R. BECKER
ISSUE DATE: 1-25-10
SCALE: LISTED

SHEET NUMBER
S-1

GENERAL NOTES:

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

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

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

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

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

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

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

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

9) THE CONTRACTOR IS RESPONSIBLE FOR ALL ON SITE WORK MEANS AND METHODS.

10) CONTRACTOR, ANY CONTRACTOR EMPLOYEES OR REPRESENTATIVES, OR SUB-CONTRACTOR, ANY SUB-CONTRACTOR EMPLOYEES OR REPRESENTATIVES, WILL CONFORM TO ALL LAWS AND REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED, INCLUDING BUT NOT LIMITED TO, ALL OCCUPATIONAL SAFETY AND HEALTH ACT ("OSHA") STATUTES AND REGULATIONS AS WELL AS ALL OTHER FEDERAL, STATE AND/OR LOCAL LAWS OR REGULATIONS APPLICABLE TO THE WORK BEING PERFORMED BY CONTRACTOR.

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

12) THE CONTRACTOR IS RESPONSIBLE FOR ALL SEED AND STRAW WORK NECESSARY TO REPAIR DAMAGED AREAS.

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

14) CONTRACTOR'S RESPONSIBILITIES REGARDING BUILD OUT ON FIBREBOND EQUIPMENT SHELTERS TO INCLUDE:

* INSTALLING THE DOOR CANOPY & BOND TO DOOR FRAME
* INSTALLING EXTERIOR LIGHT ON WALL DETERMINED BY PROJECT SUPERVISOR AND PHOTOCELL REQUIREMENTS
* INSTALLING INTRUDER ALARMS
* CHECK OPERATIONS OF DOOR AND DOOR HARDWARE
* ADJUST WEATHERSTRIPPING ON DOORS AS NEEDED
* INSPECT ROOF FOR DAMAGE AND POSSIBLE LEAKS
* INSPECT INTERIOR FINISH FOR IMPERFECTIONS AND REPAIR AS NEEDED
* CHECK OPERATION OF LIGHTS AND ELECTRICAL OUTLETS
* INSTALL GUTTER SYSTEM
* CHECK OPERATION OF ENVIRONMENTAL CONTROLS AND HVAC UNITS
* INSTALL AND PAINT SHELTER TIE-DOWNS TO MATCH

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

16) INSTALL ELECTRIC AND GROUND FIELD FOR COMPOUND.

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

18) GC WILL BE RESPONSIBLE FOR OFF LOADING AND STACKING OF TOWER WHEN APPLICABLE.

19) GC WILL BE RESPONSIBLE FOR MOUNTING ALL LINES AND ANTENNAS.

20) GC WILL BE RESPONSIBLE FOR SUPPLYING AND INSTALLING ICE BRIDGE.

21) GC WILL BE RESPONSIBLE FOR SCHEDULING PROPANE TANK DELIVERY AND HOOK-UP. PREFERRED SUPPLIERS ARE EMPIRE & AMERIGAS

22) GC WILL BE RESPONSIBLE FOR COORDINATING THE CLEANING OF THE INSIDE OF THE BUILDING WITH THE PROJECT SUPERVISOR AFTER THE SITE HAS BEEN TURNED OVER TO THE OPERATIONS DEPARTMENT AND ALL TURN-UP PROCEDURES HAVE BEEN COMPLETED. THIS WILL INCLUDE SUPPLYING A 30 GALLON TRASHCAN, 30 GALLON TRASH BAGS, BROOM, DUST PAN AND DOORMAT FOR BUILDING.

23) GC TO VERIFY ALL BLUEGRASS CELLULAR EQUIPMENT DIMENSIONS & SPECIFICATIONS WITH MANUFACTURER'S DRAWINGS, (FIBREBOND, GENERAC, EASTPOINTE ETC.) PRIOR TO CONSTRUCTION. ADDRESS ANY ISSUES WITH PROJECT SUPERVISOR BEFORE WORK BEGINS.

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

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

26) GC TO LABEL BLUEGRASS CELLULAR METER WITH NAME PLATE ON METER BACKBOARD.

27) GC WILL BE RESPONSIBLE FOR INSTALLATION OF ALL FENCING.

28) ALL TRASH AND DEBRIS TO BE REMOVED BY GC

29) GC WILL BE RESPONSIBLE FOR APPLYING FOR ELECTRICAL SERVICE AND PAYING NECESSARY FEES REQUIRED.

30) GC WILL BE RESPONSIBLE FOR SUPPLYING & INSTALLING PROTECTIVE END CAPS ON ANY EXPOSED THREADED ROD OR UNISTRUT USED ON SITE. VERIFY TYPE WITH PROJECT SUPERVISOR PRIOR TO INSTALLATION.

31) GC WILL BE RESPONSIBLE FOR HAVING A CERTIFIED ELECTRICIAN HOOK UP THE BATTERIES (IMMEDIATELY) AFTER POWER HAS BEEN TURNED UP AT THE SITE, PREVENTING THE DELAY OF ANY WORK FOR OPERATIONS. THE GENERAL CONTRACTOR MUST NOTIFY THE PROJECT SUPERVISOR IMMEDIATELY AT THIS TIME SO HE CAN COORDINATE A CELL TECH TO BE ONSITE WHEN THIS OCCURS.

32) GC WILL BE RESPONSIBLE FOR RUNNING (CAT5) FROM THE GENERATOR ALARM PANEL MOUNTED ON THE SIDE OF THE TRANSFER SWITCH (BY THE CONTRACTOR), THROUGH THE TRANSFER SWITCH AND UP TO THE EXISTING CONDUIT BESIDE THE A/C POWER FAIL RELAY. THE (CAT5) WILL BE PULLED THROUGH EXISTING CONDUIT AROUND THE SHELTER AND EXTENDED TO THE ALARM BLOCK. THERE SHOULD BE A MINIMUM 3'-0" OF (CAT5) LEFT HANGING ON EACH END FOR THE CELL TECH TO HOOK UP THE GENERATOR ALARMS.

33) GC MUST SUBMIT A COPY OF THE BUILDING PERMIT AND CONSTRUCTION SCHEDULE TO THE PROJECT SUPERVISOR PRIOR TO RECEIVING (NTP) TO BEGIN CONSTRUCTION (NO EXCEPTIONS).

34) GC MUST DISPLAY FCC TOWER REGISTRATION NUMBER AND EMERGENCY PHONE NUMBERS ON 3'-0 X 4'-0" MINIMUM WOODEN BACKBOARD SOMEWHERE ON SITE LOCATION PRIOR TO BREAKING GROUND.

GRADING & EXCAVATING NOTES:

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

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

3) BACK FILLING:
- EXCAVATED AREA SHALL BE CLEARED FROM STONES OR CLODS OVER 2 1/2" MAXIMUM DIAMETER
- SHALL BE PLACED IN LAYERS OF 6" AND COMPACTED TO A 95% STANDARD PROCTOR, USE A 90% PROCTOR IN GRASSED / LANDSCAPED AREAS WHERE REQUIRED.
- SHALL BE APPROVED MATERIALS CONSISTING OF SANDY CLAY, GRAVEL AND SAND, SOFT SHALE, EARTH OR LOAM. CONSULT WITH OWNER PRIOR TO FILL BEING ADDED.

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

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

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

7) IF SOUND SOIL IS NOT REACHED AT DESIGNATED EXCAVATION DEPTH, THE POOR SOIL IS TO BE EXCAVATED TO ITS FULL DEPTH AND EITHER REPLACED WITH MECHANICALLY COMPACTED GRANULAR MATERIAL OR THE EXCAVATION TO BE FILLED WITH THE SAME QUALITY CONCRETE SPECIFIED FOR THE FOUNDATION. PLEASE NOTIFY THE PROJECT SUPERVISOR AND THEY WILL HAVE A 3RD PARTY ENGINEERING FIRM CONTACT YOU WITH RECOMMENDATIONS.

8) MECHANICALLY COMPACTED GRANULAR MATERIAL OR CONCRETE OF THE SAME QUALITY SPECIFIED FOR THE FOUNDATIONS TO BE USED IF EXCAVATION EXCEEDED THE OVERALL REQUIRED DEPTH. FOR STABILIZATION OF THE BOTTOM OF THE EXCAVATION, CRUSHED STONE MAY BE USED. STONE, IF USED, SHALL NOT BE USED AS COMPILING CONCRETE THICKNESS. PLEASE NOTIFY THE PROJECT SUPERVISOR AND THEY WILL HAVE A 3RD PARTY ENGINEERING FIRM CONTACT YOU WITH RECOMMENDATIONS.

9) EXCAVATION TO COMPOUND TO INCLUDE WEED CONTROL MAT.

10) SITE TO HAVE PROPER DRAINAGE & EROSION CONTROL (CROWNED FORMATION)

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

"CALL BEFORE YOU DIG"

THE CONTRACTOR'S ATTENTION IS DIRECTED TO THE UTILITY PROTECTION CENTER, PHONE 811 IN KENTUCKY , WHICH WAS ESTABLISHED TO PROVIDE ACCURATE LOCATIONS OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL NOTIFY THE UTILITY PROTECTION CENTER 48 HOURS IN ADVANCE OF ANY CONSTRUCTION ON THIS PROJECT. ALL NEW SERVICE AND GROUNDING TRENCHES PROVIDE A WARNING TAPE @ 12 INCHES BELOW GRADE.

SYMBOLS LEGEND

- KEYNOTE
- INSPEC. SLEEVE / GRND ROD
- INSPECTION SLEEVE
- CAD WELD CONNECTION
- T — TRANSFORMER
- LA — LIGHTNING SUPPRESSOR
- SWITCH (DISCONNECT)
- M — METER PACK
- P — POWER
- G — GAS LINE
- W — WATER LINE
- SS — SANITARY SEWER
- T — TELEPHONE
- SSD — STORM SEWER DRAIN
- X — FENCE

RBS DESIGN
6403 MERCURY DRIVE LOUISVILLE, KY. 40291
(502)969-3427 Fax(502)231-3656

NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
BURKESVILLE II
5451 CELINA RD. BURKESVILLE, KY. 42717

DRAWN BY: R. BECKER
ISSUE DATE: 1-25-10
SCALE: LISTED

SHEET NUMBER
General Notes

C

Landmark Surveying Co., Inc.

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

15 N.E. 3rd Street
Washington, Indiana 47501
Phone: 812-257-0950
Fax: 812-257-0953
Email: landmark97@sbcglobal.net

Directions to the Site
From the County Seat of Cumberland County, Kentucky

Bluegrass Cellular, Inc.
Burkesville II Site

From the Cumberland County Courthouse in Burkesville, Kentucky: travel easterly, toward Monticello, on Kentucky Highway 90 for 0.6 miles to Kentucky Highway 61; turn right onto Kentucky Highway 61 and travel south, toward Dale Hollow Lake, for 5.5 miles to Clover Creek Drive on the west side of Kentucky Highway 61; turn right onto Clover Creek Drive and travel northerly about 0.3 miles to the tower site on the left side of said drive at the top of the hill. The address of the site is 5451 Celina Road, Burkesville, Kentucky 42717.

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

JAN. 20, 2010
Date

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

Site Name: Burkesville II

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 16 day of November 2009, by and between Ryan C. Bryant and Leigh Ann Bryant, husband and wife, 146 Bluffview Rd., Burkesville, KY 42717, one-third (1/3rd) interest; Jeremy Frank Wright and Devona M. Wright, husband and wife, 3991 Modoc Rd., Burkesville, KY 42717, one-third (1/3rd) interest and Joseph P. Bryant and Marla Jo Bryant, husband and wife, 1551 Independence Ridge Rd., Breeding, KY 42715, one-third (1/3rd) interest , (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").

W I T N E S S E T H:

WHEREAS, the Optionor(s) is the owner of certain real property located in Cumberland 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 15 May 2011, (the "Option Period") as set forth in Paragraph 5 thereof.

2. The parties hereto anticipate that the Property comprises approximately a **One Hundred Foot by One Hundred Foot** area, and that a right of way will be given by the Optionor(s) for the purposes of ingress and egress throughout the term of the lease. The Optionee shall obtain an accurate survey of the Property by a registered land surveyor licensed in the Commonwealth of Kentucky at the sole expense of the Optionee. A copy of the survey shall be provided to the Optionor(s). The description of the Property shall include the number of acres determined by the surveyor. The Optionee shall obtain said survey within a reasonable time following the date of the Option Agreement.

3. During the term of the Option, the Optionee may enter onto the Property at its own risk to obtain soil samples and to bore soil for the purposes of determining the suitability of the Property for a communications tower.

4. Upon the Optionee's proper exercise of the Option in accordance with Paragraph **5** hereof, the Optionor(s) shall be deemed to have immediately executed, acknowledged and delivered to the Optionee the Lease Agreement contained in Section II hereof. The description of the Property shall be that determined by the registered land surveyor in accordance with Paragraph 2 hereof.

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

6. The Optionor(s) agrees not to sell, lease or offer for sale or lease the Property during the term of this Option or any renewal or extension of the Option.

7. In the event the Optionee fails to exercise the Option as set forth herein (unless such failure is due to the discovery of a defect in the Property or other matter unsatisfactory to the Optionee), the Optionor(s) shall have the right to retain the Option Consideration.

8. The Optionee may assign this Option with written consent of the Optionor(s), which consent shall not be unreasonably withheld, and upon any assignment such assignee shall have all the rights, remedies and obligations as if it were the original Optionee hereunder. From and after any such assignment, the term "Optionee" shall refer to such assignee.

9. Each party hereto shall bear any and all of its own expenses in connection with the negotiation, execution or settlement of this Option.

10. Risk of loss with respect to the Property during the term of this Option and during the term of the lease shall be upon the Optionor(s). If, during the term of the Option, any portion of the Property shall be acquired by public authority under the right or threat of eminent domain, the Optionee may, at its sole option, either (i) exercise the

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

11. The parties hereto represent to each other that neither has engaged any broker to represent their interests in connection with the transactions contemplated hereby, and each agrees to indemnify the other against any and all claims made by any brokers engaged or purported to be engaged by the other for brokerage commissions or fees in connection with the transactions contemplated hereby.

12. The Optionor(s) represents, warrants and covenants to the Optionee that the Optionor(s) has not caused or permitted, and shall not cause or permit, and to the best of Optionor(s)' knowledge no other person has caused or permitted any hazardous material (as defined by any applicable federal, state or local law, rule or regulation) to be brought upon, placed, held, located or disposed of at the Property. In the event any such contamination occurs for which the Optionee becomes legally liable, the Optionor(s) shall indemnify the Optionee against all claims, damages, judgments, penalties and costs and expenses, including reasonable attorneys' fees, which Optionee may incur.

13. This Option Agreement and the rights and obligations of the parties hereto shall be construed in accordance with the laws of the Commonwealth of Kentucky.

14. For the purposes of giving notice as permitted or required herein, the address of the Optionor(s)shall be: **Joseph Bryant, 1551 Independence Ridge Rd., Breeding, KY 42715**; the Optionee's address shall be: **2902 Ring Road, Elizabethtown, KY 42701.** Any inquiry by the Optionor to the Optionee regarding the terms and conditions of the Option Agreement or Lease Agreement, or otherwise related to the Option Agreement or Lease Agreement, shall be made in writing and submitted to the attention of the Optionee's Lease Administrator at the above address.

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 Cumberland 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 **six (6) 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%**.

2. The Optionee shall pay to the Optionor(s) rent for the Property in the sum of Four Thousand Eight Hundred Dollars and Zero Cents ($4,800.00) yearly, to be paid in advance. All rent payments shall be personally delivered or mailed to the Optionor(s) at the address set forth in Paragraph 14 hereof. Any check payment of the rent due under the Lease shall be payable to the order of Optionor(s).

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

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

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

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

7. The Optionee agrees to maintain an access road in a passable manner for the term of the lease.

8. Optionee'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.

18. Upon the termination or other end of this Lease Agreement, Optionee shall have the right to remove any and all of its property (real or personal) from the Property regardless of whether or not such property may be considered a fixture thereto.

19. Upon abandonment of the property, Optionee shall have thirty (30) days to dismantle and remove the cellular antenna tower and any/all equipment located on Optionor's property.

[Remainder of Page Intentionally Left Blank]

EXECUTION OF AGREEMENT(S)

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

("Optionor(s)")

Ryan C. Bryant
Date: 11/5/09

Leigh Ann Bryant
Date: 11-5-09

Jeremy Frank Wright
Date:

Devona M. Wright
Date:

Joseph P. Bryant
Date:

Marla Jo Bryant
Date: 11/05/09

("Optionor(s)")

Cumberland Cellular Partnership.
d/b/a Bluegrass Cellular, a Kentucky general partnership
("Optionee")

By:
Ron Smith
Its: Authorized Representative
Date: 11-16-9

STATE OF KY
COUNTY OF Cumb.

The foregoing instrument was acknowledged before me this 5th day of Nov.,
2009, by Ryan C. and Leigh Ann Bryant, husband and wife, to be his/her free act and deed.

Tammy L Dyer
NOTARY PUBLIC STATE AT LARGE
My commission expires: 1-18-11

STATE OF KY
COUNTY OF Cumb

The foregoing instrument was acknowledged before me this 5th day of Nov,
2009, by Jeremy Frank and Devona M. Wright, husband and wife, to be his/her free act and deed.

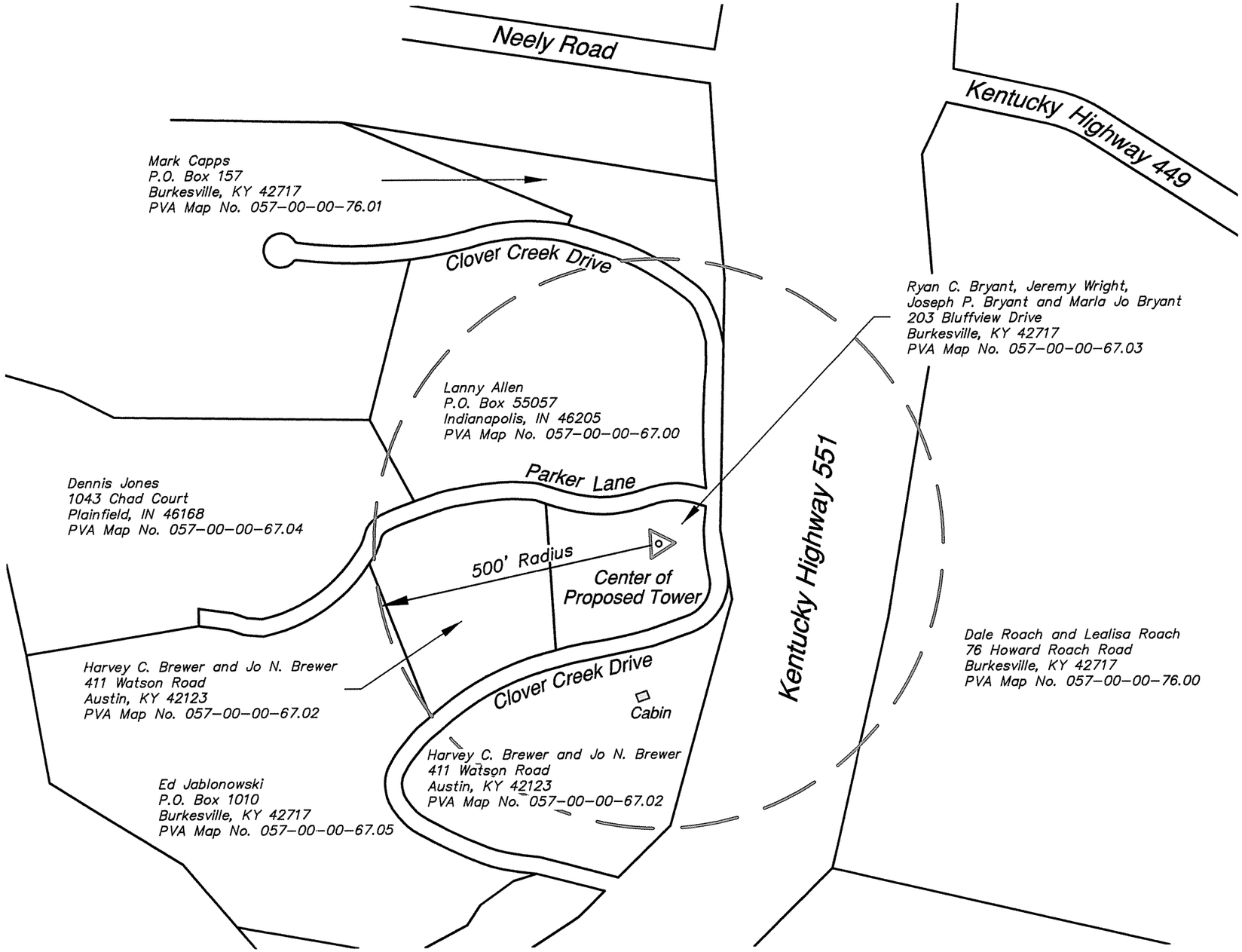
Tammy L Dyer
NOTARY PUBLIC STATE AT LARGE
My commission expires: 1-18-11

STATE OF KY
COUNTY OF Cumb

The foregoing instrument was acknowledged before me this 5th day of Nov,
2009, by Joseph P. and Marla Jo Bryant, husband and wife, to be his/her free act and deed.

Tammy L Dyer
NOTARY PUBLIC STATE AT LARGE
My commission expires: 1-18-11

Site: Burkesville II
500-Foot Radius Map for Structures and Landowners
Cumberland County, Kentucky



North

GRAPHIC SCALE

0 100 200 400

(IN FEET)
1 inch = 200 ft.

Note

The location of the boundaries shown are approximate, and they are based upon aerial photographs and information on file in the office of the Property Valuation Administrator of Cumberland County, Kentucky.

Surveyor's Certification

I hereby certify that the information shown is correct to the best of my knowledge; and it is in accordance with the records found in the office of the Property Valuation Administrator of Cumberland County, Kentucky on December 8, 2009.

Darren L. Helms
Darren L. Helms, P.L.S. 3386

JAN. 20, 2010
Date

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

Landmark Surveying Co., Inc.
15 N.E. 3rd Street
Washington, Indiana 47501
(812) 257-0850
Email: landmark@insightbb.com
Project No. 09-12-0189

500-Foot Radius Map
5451 Celina Road
Burkesville, Kentucky 42717

Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42702

REVISIONS	DATE

DATE	DRAWN BY	CHECKED BY
1-20-10	A. Winkler	DLHelms

SHEET NO.
1
OF 1 SHEETS

FILE NO.
burkes-radius.dwg

COMMONWEALTH OF KENTUCKY

BEFORE THE 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 (BURKESVILLE II) IN RURAL SERVICE AREA #5 (CUMBERLAND) OF THE COMMONWEALTH OF KENTUCKY

CASE NO. 2010-00044

AFFIDAVIT OF HOLLY C. WALLACE

I, Holly C. Wallace, being duly sworn, depose and state as follows:

1. My name is Holly C. Wallace and I am a member of the Kentucky Bar Association. I am legal counsel to Cumberland Cellular Partnership and am submitting this affidavit in conjunction with the above referenced matter.

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

3. Attached as Exhibit 2 is a copy of the United States Certified Mail return receipt that demonstrates proof of service of the written notice of the proposed construction upon: (1) Mark Capps; (2) Dennis Jones; (3) Harvey C. and Jo N. Brewer; (4) Dale Roach and Lealisa Roach; (5) Lanny Allen; and (6) Ryan C. Bryant, Jeremy Wright, Joseph P. Bryant and Marla Jo Bryant.

4. Affiant attempted to serve written notice of the proposed construction upon Ed Joblonowski (see Exhibit 1) via United States Certified Mail pursuant to 807 KAR 5:063 §1(1)(l) & (m). Service of the written notice of the proposed construction to Ed Joblonowski was attempted via United States Certified Mail and was returned marked "Return to Sender - Refused." (See attached Exhibit 3) Therefore, another copy of the written notice of proposed construction was sent to Ed Joblonowski via United States First Class Mail. (See Exhibit 1.)

Further Affiant saith not.

Holly C. Wallace

COMMONWEALTH OF KENTUCKY)
)SS:
COUNTY OF JEFFERSON)

SUBSCRIBED AND SWORN to before me this 18th day of March, 2010.

My commission expires: 11/20/2011

Notary Public

771221_1
21965-48

Landmark Surveying Co., Inc.

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

15 N.E. 3rd Street
Washington, Indiana 47501
Phone: 812-257-0950
Fax: 812-257-0953
Email: landmark97@sbcglobal.net

Landowner and Adjacent Landowner List

Bluegrass Cellular, Inc.
Burkesville II Site
Cumberland County, Kentucky

Mark Capps
P.O. Box 157
Burkesville, KY 42717

Dale Roach and Lealisa Roach
76 Howard Roach Road
Burkesville, KY 42717

Dennis Jones
1043 Chad Court
Plainfield, IN 46168

Lanny Allen
P.O. Box 55057
Indianapolis, IN 46205

Ed Jablonowski
P.O. Box 1010
Burkesville, KY 42717

Ryan C. Bryant, Jeremy Wright,
Joseph P. Bryant and Marla Jo Bryant
203 Bluffview Drive
Burkesville, KY 42717

Harvey C. Brewer and Jo N. Brewer
411 Watson Road
Austin, KY 42123

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

JAN. 20, 2010
Date

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

February 12, 2010

Mark Capps
P.O. Box 157
Burkesville, Kentucky 42717

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.

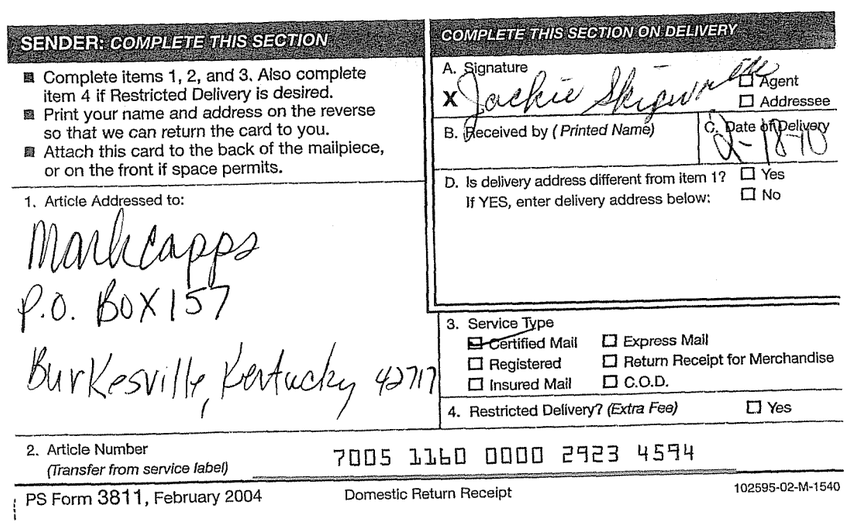
Cumberland Cellular Partnership is applying to the Public Service Commission of the Commonwealth of Kentucky (the "Commission") for a Certificate of Public Convenience and Necessity to construct and operate a new cell facility to provide cellular radio service. This facility will include a 240-foot tower and an equipment shelter to be located at 5451 Celina Road, Burkesville, Kentucky 42717. 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 2010-00044 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 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:
Markcapps
P.O. Box 157
Burkesville, Kentucky 42717

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Jackie Skipworth ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery 02-18-10

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

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

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1160 0000 2923 4594

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

February 12, 2010

Dennis Jones
1043 Chad Court
Plainfield, Indiana 46168

Public Notice

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

Please refer to case number 2010-00044 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.mybblueworks.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:

Dennis Jones
1043 Chad Court
Plainfield, Indiana
46168

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Dennis Jones ☐ Agent ☐ Addressee

B. Received by (Printed Name) DENNIS JONES C. Date of Delivery

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

FEB 18 2010

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

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1160 0000 2923 4600

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

February 12, 2010

Harvey C. Brewer and Jo N. Brewer
411 Watson Road
Austin, Kentucky 42123

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.

Cumberland Cellular Partnership 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 radio service. This facility will include a 240-foot tower and an equipment shelter to be located at 5451 Celina Road, Burkesville, Kentucky 42717. 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 2010-00044 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

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- 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:

Harvey C. Brewer + JO. N. Brewer
411 Watson Road
Austin, KY 42123

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Jo Brewer ☐ Agent ☐ Addressee

B. Received by (Printed Name) Jo Brewer C. Date of Delivery 2/17/10

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

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

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. Article Number *(Transfer from service label)* 7005 1160 0000 2923 4624

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

February 12, 2010

Dale Roach and Lealisa Roach
76 Howard Roach Road
Burkesville, Kentucky 42717

Public Notice

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

Please refer to case number 2010-00044 in your correspondence.

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- 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:

Dale Roach & Lealisa Roach
76 Howard Roach Road Rd.
Burkesville, KY 42717

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Lealisa Roach ☐ Agent ☐ Addressee

B. Received by (Printed Name) LEALISA ROACH C. Date of Delivery 2-17-10

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

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

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1160 0000 2923 4631

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

February 12, 2010

Lanny Allen
P.O. Box 55057
Indianapolis, Indiana 46205

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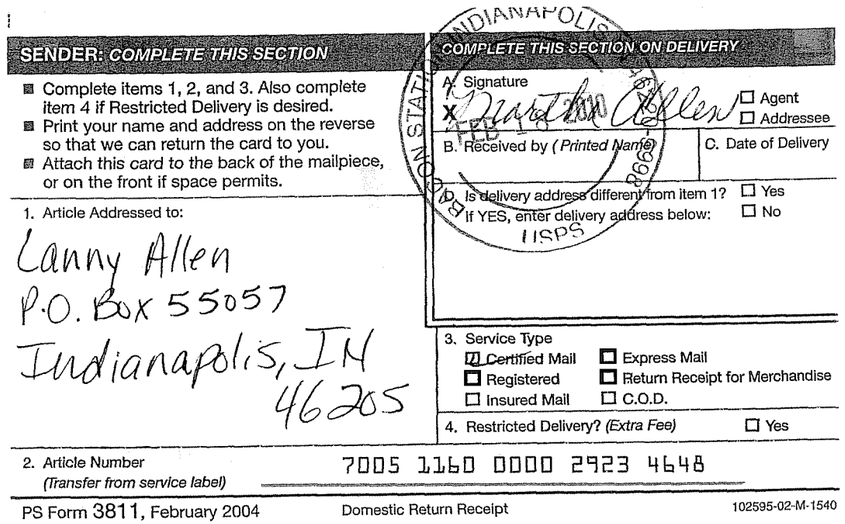
Public Service Commission of Kentucky
P.O. Box 615
Frankfort, Kentucky, 40602.

Please refer to case number 2010-00044 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

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- 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:

Lanny Allen
P.O. Box 55057
Indianapolis, IN
46205

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Lanny Allen ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

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

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

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1160 0000 2923 4648

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

February 12, 2010

Ryan C. Bryant, Jeremy Wright,
Joseph P. Bryant and Marla Jo Bryant
Burkesville, Kentucky 42717

Public Notice

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

Please refer to case number 2010-00044 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

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- 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:
Ryan C. Bryant, Jeremy Wright
Joseph P. Bryant & Marla
Jo Bryant
8203 Bluffview Drive
Burkesville, KY 42717

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Ryan Bryant ☐ Agent ☐ Addressee

B. Received by (Printed Name) Ryan Bryant
C. Date of Delivery 2-17-10

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

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

4. Restricted Delivery? (Extra Fee) ☐ Yes

2. Article Number (Transfer from service label) 7005 1160 0000 2923 4655

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

February 12, 2010

Ed Jablonowski
P.O. Box 1010
Burkesville, Kentucky 42717

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.

Cumberland Cellular Partnership 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 radio service. This facility will include a 240-foot tower and an equipment shelter to be located at 5451 Celina Road, Burkesville, Kentucky 42717. A map showing the location is attached.

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

Please refer to case number 2010-00044 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)

ORE & SHOHL LLP
ATTORNEYS AT LAW
1400 PNC PLAZA
W. JEFFERSON STREET
SVILLE, KY 40202

7005 1160 0000 2923 4617

UNITED STATES POSTAGE
PITNEY BOWES
02 1A $ 06.15⁰
0004608059 FEB 16 2010
MAILED FROM ZIP CODE 40202

2-17

Ed Jablonowski
P.O. Box 1010
Burkesville, Kentucky

RETURN TO SENDER

- ☐ MOVED, LEFT NO ADDRESS
- ☐ ATTEMPTED - NOT KNOWN
- ☐ UNCLAIMED / REFUSED
- ☐ NO SUCH STREET
- ☐ NO SUCH NUMBER
- ☐ INSUFFICIENT ADDRESS
- ☐ NOT DELIVERABLE AS ADDRESSED UNABLE TO FORWARD

UNITED STATES POSTAL SERVICE

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:

Ed Jablonowski
P.O. Box 1010
Burkesville, KY 42717

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X
☐ Agent
☐ Addressee

B. Received by (*Printed Name*) | C. Date of Delivery

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

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

4. Restricted Delivery? (*Extra Fee*) ☐ Yes

2. Article Number
(*Transfer from service label*) 7005 1160 0000 2923 4617

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

Dinsmore & Shohl LLP
ATTORNEYS

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

February 12, 2010

Via Certified Mail
Honorable Tim Hicks
Cumberland County Judge Executive
600 Courthouse Square
P.O. Box 826
Burkesville, Kentucky 42717

Re: ***Application of Cumberland Cellular Partnership d/b/a Bluegrass Cellular for a Certificate of Public Convenience and Necessity to construct a cellular tower to be located at 5451 Celina Road, Burkesville, Kentucky 42717, before the Public Service Commission of the Commonwealth of Kentucky, Case No. 2010-00044***

Dear Judge Hicks:

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 Cumberland County. The facility will include a 240 ft. tower and an equipment shelter to be located at 5451 Celina Road, Burkesville, Kentucky 42717. 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 2010-00044 in your correspondence.

Very truly yours,

DINSMORE & SHOHL LLP

Kerry W. Ingle
Paralegal

enclosure

kwi

SENDER: *COMPLETE THIS SECTION*

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

1. Article Addressed to:

Hon. Tim Hicks
Cumberland County Judge Exec.
600 Courthouse Square
P.O. Box 826
Burkesville, KY 42717

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Eugene Amos ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery 2-18-10

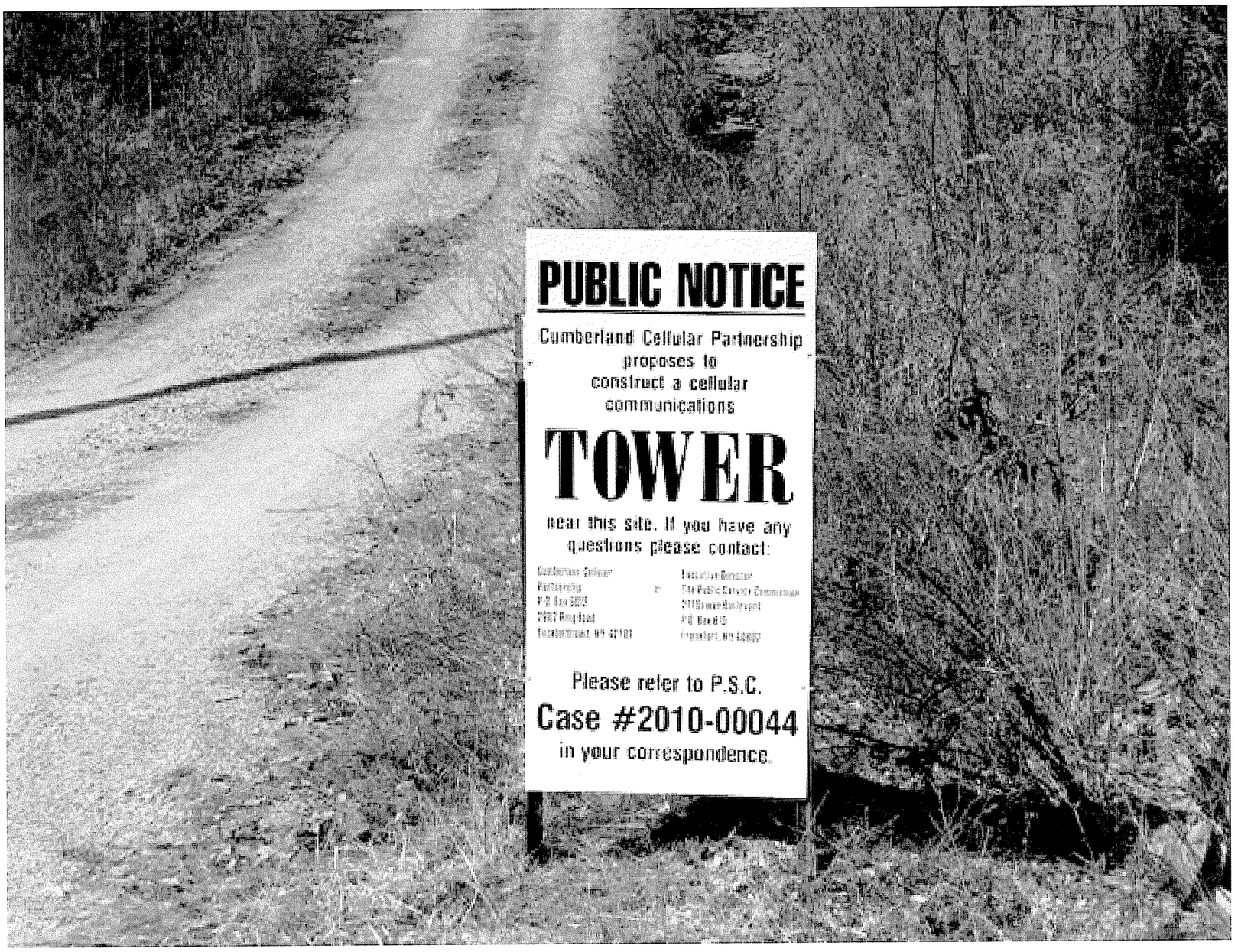
D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

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

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

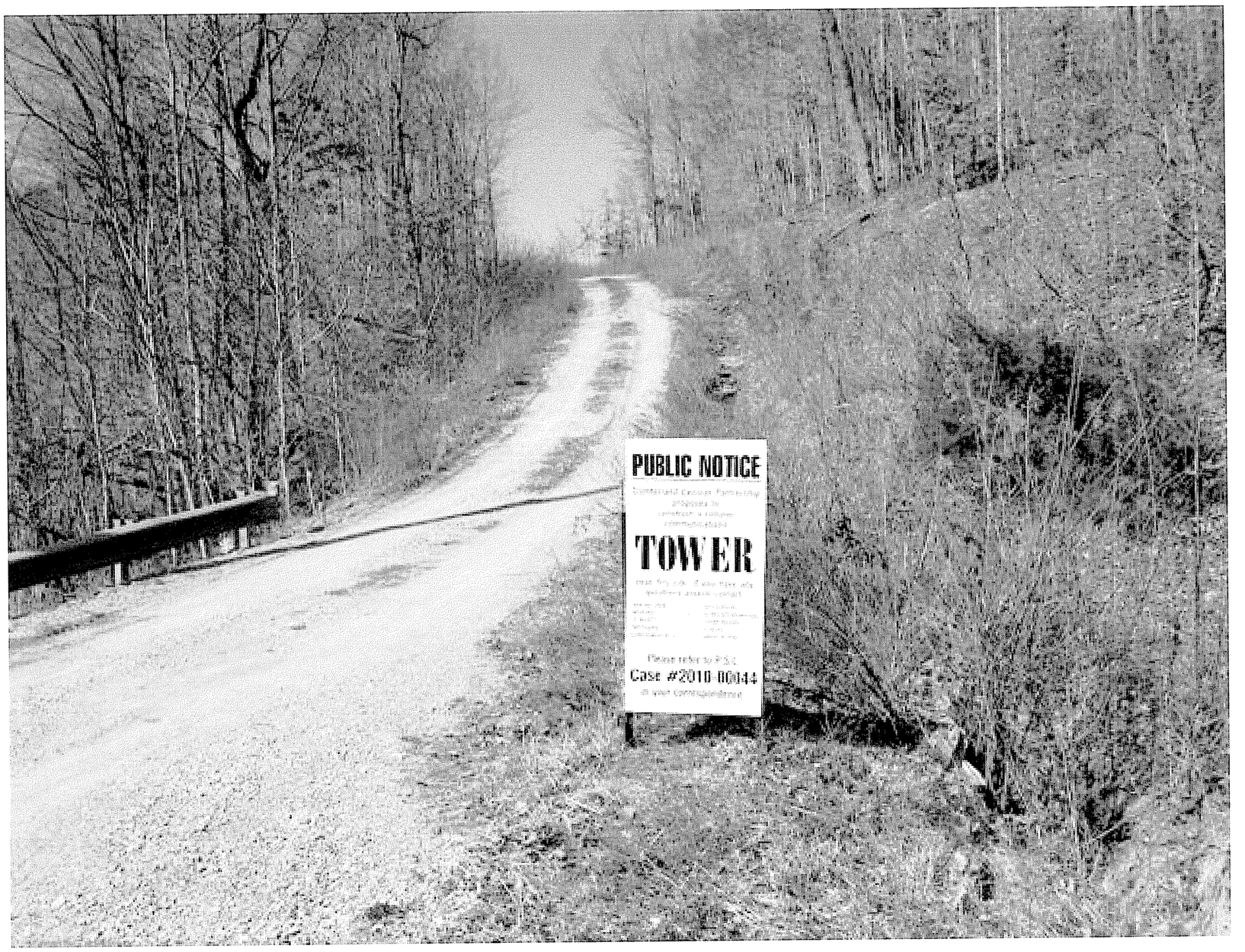
2. Article Number *(Transfer from service label)* 7005 1160 0000 2923 4662

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540


PUBLIC NOTICE
Cumberland Cellular Partnership
proposes to
construct a cellular
communications
TOWER
near this site. If you have any
questions please contact:
Please refer to P.S.C.
Case #2010-00044
in your correspondence.


PUBLIC NOTICE
TOWER
Please refer to P.S.C.
Case #2019-00044


PUBLIC NOTICE
Cumberland Cellular Partnership
proposes to
construct a cellular
communications
TOWER
on this site. If you have any
questions please contact:
Cumberland Cellular
Partnership
P.O. Box 5010
2002 Ring Road
Elizabethtown, KY 42701
or
Executive Director
The Public Service Commission
211 Sower Boulevard
P.O. Box 615
Frankfort, KY 40602
Please refer to P.S.C.
Case #2010-00044
in your correspondence.


PUBLIC NOTICE
TOWER
Case #2010-00144

Cumberland County News

P.O. Box 307 • Burkesville, KY 42717-0307 • (270) 864-3891

AFFIDAVIT OF PUBLICATION

State of Kentucky -- County of Cumberland -- City of Burkesville

I, Cyndi Pritchett, herby certify that I am editor of the *Cumberland County News*, that said newspaper has the largest bona fide circulation which is published in the City of Burkesville, Kentucky, County of Cumberland, and that said newspaper is the newspaper published in said county.

I certify that the attached clipping was published in said newspaper on the 3rd and 10th day of March, 2010.

Description of Ad: Public Notice

Page Number: March 3- page 11, March 10- page 13

Cyndi Pritchett
Representative

Sworn and subscribed before me this 12th day of March, 2010.

My commission expires: 7-26-2010.

Frances J. Perry
Notary Public

(Seal of Notary)

part of beautiful Cumberland County. Plentiful supply of deer, turkey and other wildlife in natual habitat. Call 270-864-5689 between 9 a.m. and 4:30 p.m.

1/27tfn

For Rent or Sale: Riverfront home, 900 sq. ft., 1 bedroom, gas heat and window A/C, beautiful setting at end of Leslie Road. $500 monthly, F/L. Call 931-260-0723 or 931-265-0548.

2/10-3/3chg

For Rent: 3 bedroom house, recently remodeled, located in town, $300/month. Must have references. Call 270-864-4300.

3/3-3/10chg

MOBILE HOMES

HURRY! Time is running out for you to get up to $8000 tax credit from the government. Clayton Homes of Somerset will make it even better with special financing for first time home buyers, SSI/Disability recipients. Call now!!! 606-678-8134.

2/10-3/3chg

NEW AND USED HOMES!! Zero down payment with land or as little as $1500 cash down. We own the bank! Call 606-678-8134 or toll-free 866-338-0416 wac

2/10-3/3chg

TAX TIME SPECIALS!! Save thousands on select models. 3 bedroom 2 bath starting less than $300 per month! Zero down with land or as little as $1650 down! Call now! Toll free 866-338-0416 or 606-678-8135.

2/10-3/3chg

LEGALNOTICE

Legal Notice

This is to serve as notice that Cumberland Cellular Partnership, LLC, a Kentucky limited liability company, d/b/a Bluegrass Cellular, is fulfilling compliance requirements for proposed construction of a 240 foot self support telecommunications tower located at 7031 Columbia Road in Burkesville, Kentucky. Comments are sought on the effect of the proposed tower on historic properties. For comments, please contact Liz Barrow at Patriot Engineering and Environmental, Inc., 400 Production Court, Louisville, Kentucky 40299.

2/24-3/3chg

Legal Notice

Notice is hereby given that on the 24th day of February, 2010, Carol Garmon, PO Box 43, Marrowbone, Kentucky 42759, by the consideration of the District Court of Cumberland County, was qualified and appointed as Administratrix of the estate of Welby Keith Garmon, deceased, of Burkesville, Kentucky. Any person having claims of any kind against said estate should present as Co-Administratrix of the estate of Mary M. Mullinix, deceased, of Burkesville, Kentucky. Any person having claims of any kind against said estate should present same to the undersigned, properly verified as required by law, within six months of the date of said appointment. Likewise, any persons indebted to the estate should make payment to the undersigned.

Marleen Mullinix and Annette M. Bell, Co-Administratrix
Estate of
Mary M. Mullinix
c/o Law Office of
Lindsey G. Bell
PO Box 720
Burkesville, Kentucky 42717
270-864-1255

3/3-3/10chg

PUBLIC NOTICE

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 (Burkesville II Cell Site). The facility is a 240 foot tower and an equipment shelter to be located at 5451 Celina Road, Burkesville, Kentucky 42717. Your comments and requests for intervention should be addressed to: Executive Director's Office, Public Service Commission, Post Office Box 615, 211 Sower Boulevard, Frankfort, Kentucky 40602. Please refer to Case No. 2010-00044 in your correspondence.

3/3-3/10chg

Public Notice

Lake Cumberland Community Action Agency, Inc. will be having their semi-annual community meeting for the purpose of conduction Needs Assessment Surveys. This meeting will be held Thursday, March 25, 2010 at the Community Action Office (basement of Courthouse). Local residents are asked to participate in the annual needs assessment and to share past success stories. LCCAA sponsors the event annually so that the entire community can join in conversation about the realities of living in poverty and how individuals, families, and communities can become more self-sufficient. It is also an opportunity to make the public aware of the array of programs and services provided by the local Community Action office. In conjunction we will be electing an alternate board member to serve as low-income representative. Community Action changes lives, embodies the spirit of hope, and improves communities. LCCAA is one of a network of nearly 1,000 community based nonprofit and public organizations throughout the United States originally established in 1964

stall, free estimates. New/replac
ment. Ask about doors. Satisfacti
guaranteed. Call 270-433-7755.

3/18tfnc

BIDS WANTED

Bids Wanted

The City of Burkesville is lookir
into purchasing a Utility Billing So
ware for the water department ar
is now accepting sealed bids. Tl
City has the right to reject all bid
If interested call (270)864-5391
come by City Hall for information
the details to what we need. All bi
must be submitted by March 19t
2010 at 4:00 p.m. central time. Ci
of Burkesville, PO Box 25
Burkesville, KY 42717.

2/24-3/3ch

HELP WANTED

Help Wanted: Avon Reps needed i
this area. No inventory, no sales qu
tas. Local training provided. Contac
Glenda at 1-800-805-1158 o
glendahoward@insightbb.com.

3/3p

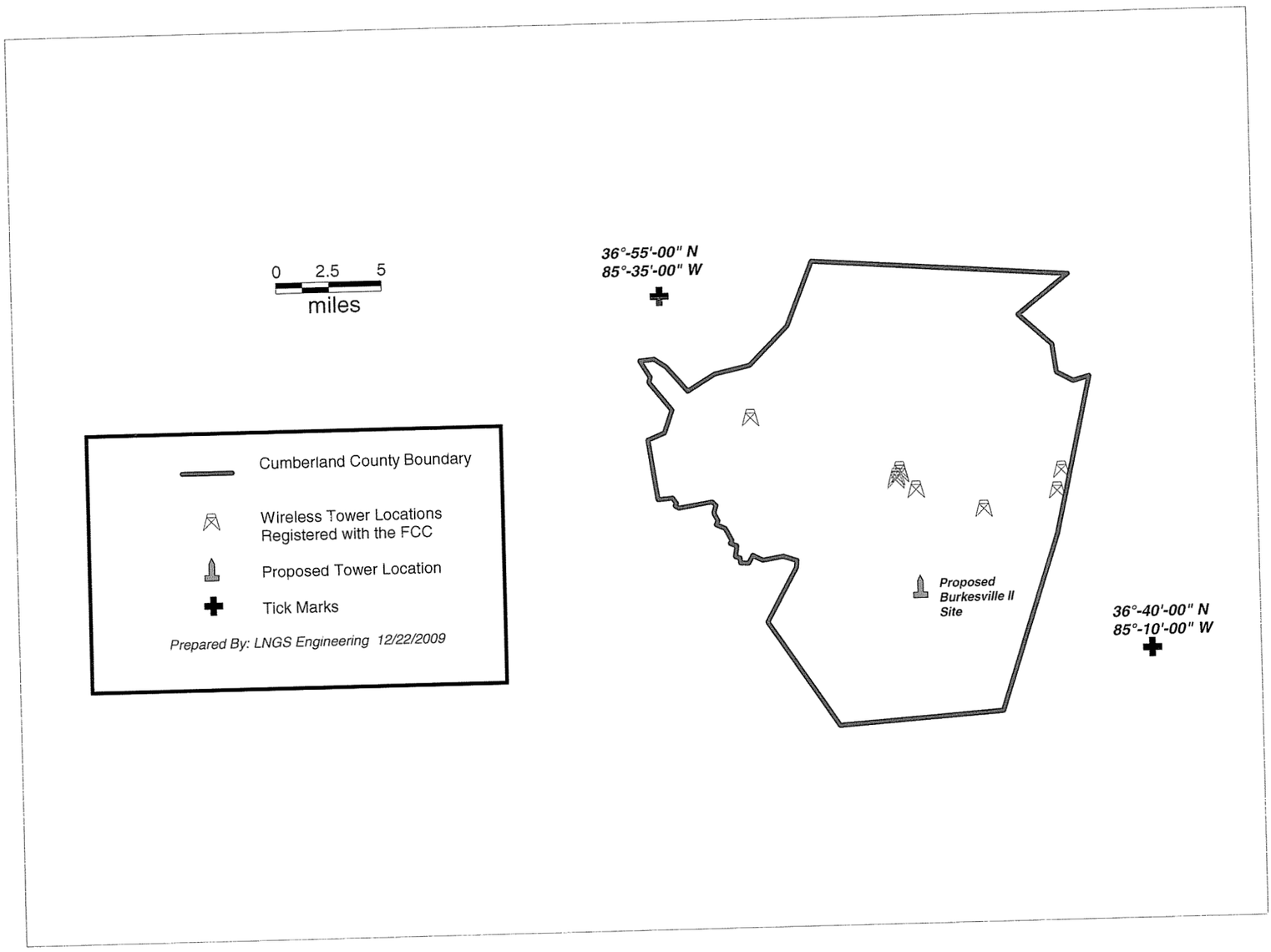
Help Wanted: Cumberland Mano
Apartments in Somerset is acceptin
applications for the position o
HVAC/Maintenance. This positio
requires a license in HVAC as wel
as high school graduate or equiva
lent. Position is full time, with healtl
and life insurance, paid holidays an
retirement benefits. Applications wil
be accepted until March 27, 2010
Applications may be picked up at th
complex located at 106 White Oa
Circle. Phone after 1 p.m. at 606-561
5319, salary negotiable with experi
ence.

3/3chg

CARD O

We, the family of Wendy G
for the things they did for M
thanks to Cumberland Vall
did for our Mom, Cumberlan
and nurses. A special thank
for all they did for our mot
flowers, cards, food or just
May God bless you all,

The


0 2.5 5
miles
Cumberland County Boundary
Wireless Tower Locations Registered with the FCC
Proposed Tower Location
Tick Marks
Prepared By: LNGS Engineering 12/22/2009
36°-55'-00" N
85°-35'-00" W
Proposed Burkesville II Site
36°-40'-00" N
85°-10'-00" W

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

FCC Tower Reg. No.	North Latitude	West Longitude	City, State	Tower Owner
1040490	36-47-11	85-23-2	Burkesville, KY	BLUEGRASS CELLULAR, INC.
1042229	36-47-19	85-23-0	Burkesville, KY	Global Tower, LLC
1044802	36-47-26	85-14-28	Burkesville, KY	KY EMERGENCY WARNING SYSTEM KEWS
1046918	36-47-26	85-22-47	Burkesville, KY	WKYR INC
1046919	36-46-47	85-22-0	Burkesville, KY	WKYR INC
1214215	36-47-35.2	85-22-49.8	Burkesville, KY	Mediacom Southeast LLC
1257755	36-45-53.9	85-18-31.2	Burkesville, KY	Cumberland Cellular Partnership
1258928	36-46-35.6	85-14-42.7	Burkesville, KY	Shared Sites Acquisition LLC
1263396	36-49-54	85-30-26.8	Marrowbone, KY	SBA Towers II LLC