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FEB 25 2010

**PUBLIC SERVICE
COMMISSION**

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 (KNIFLEY) IN RURAL
SERVICE AREA #5 (ADAIR) OF THE COMMONWEALTH
OF KENTUCKY**

CASE NO. 2010-00018

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

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 Knifley cell site in and for rural service area (“RSA”) #5 of the Commonwealth of Kentucky, namely the counties of Barren, Monroe, Metcalfe, Adair, Cumberland, Russell, Clinton, Wayne, McCreary and Hart, Kentucky.

1. As required by 807 KAR 5:001 Sections 8(1) and (3), and 807 KAR 5:063, Cumberland Cellular states that it is a Kentucky limited liability partnership whose full name and post office address are: Cumberland Cellular Partnership, 2902 Ring Road, Elizabethtown, Kentucky, 42701.
2. Pursuant to 807 KAR § 1 (1)(b), a copy of the applicant’s applications to 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 Knifley 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 Knifley 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), World Tower Company, 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 or survey, signed and sealed by a professional engineer registered in Kentucky, that shows the proposed location of the tower and all easements and existing structures within 500 feet of the proposed site on the property on which the tower will be located, and all easements and existing structures within 200 feet of the access drive, including the intersection with the public street system, is Exhibit “B”.

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

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

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

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

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

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

15. Pursuant to 807 KAR 5:063 § 1 (1)(n), applicant’s legal counsel hereby affirms that the Adair 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 Adair 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 area in Knifley, Kentucky.

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

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

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

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

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

John E. Selent
Holly C. Wallace
DINSMORE & SHOHL LLP
1400 PNC Plaza
500 West Jefferson Street
Louisville, KY 40202
(502) 540-2300
(502) 585-2207 (Fax)
selent@dinslaw.com
holly.wallace@dinslaw.com

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

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

Respectfully submitted,



John E. Selent
Holly C. Wallace
DINSMORE & SHOHL LLP
1400 PNC Plaza
500 West Jefferson Street
Louisville, KY 40202
(502) 540-2300
(502) 585-2207 (Fax)
john.selent@dinslaw.com
holly.wallace@dinslaw.com

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

Kentucky Aeronautical Study Number

APPLICATION FOR PERMIT TO CONSTRUCT OR ALTER A STRUCTURE

INSTRUCTIONS INCLUDED

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

 9. Latitude: 37 ° 14 ' 29 "

 10. Longitude: 85 ° 11 ' 59 "

 11. Datum: NAD83 NAD27 Other _____

 12. Nearest Kentucky City: Knifley County Adair

 13. Nearest Kentucky public use or Military airport:
Liberty-Casey County Airport

 14. Distance from #13 to Structure: 9.0 Miles

 15. Direction from #13 to Structure: WSW

 16. Site Elevation (AMSL): 861.00 Feet

 17. Total Structure Height (AGL): 255.00 Feet

 18. Overall Height (#16 + #17) (AMSL): 1,116.00 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:
 Tucker Warren Road
 Knifley, KY 42753

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-7588-OE
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
 Printed Name and Title

Signature

12/14/2009
 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-001-I93-2009-224

STRUCTURE: Antenna Tower
LOCATION: Knifley, KY
COORDINATES: 37° 14' 29.29" N / 85° 11' 59.49" W
HEIGHT: 255' AGL/1116' AMSL

The Kentucky Airport Zoning Commission has approved your application for a permit to construct 255' AGL/ 1116' AMSL Antenna Tower near Knifley, KY 37° 14' 29.29" N / 85° 11' 59.49" 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.

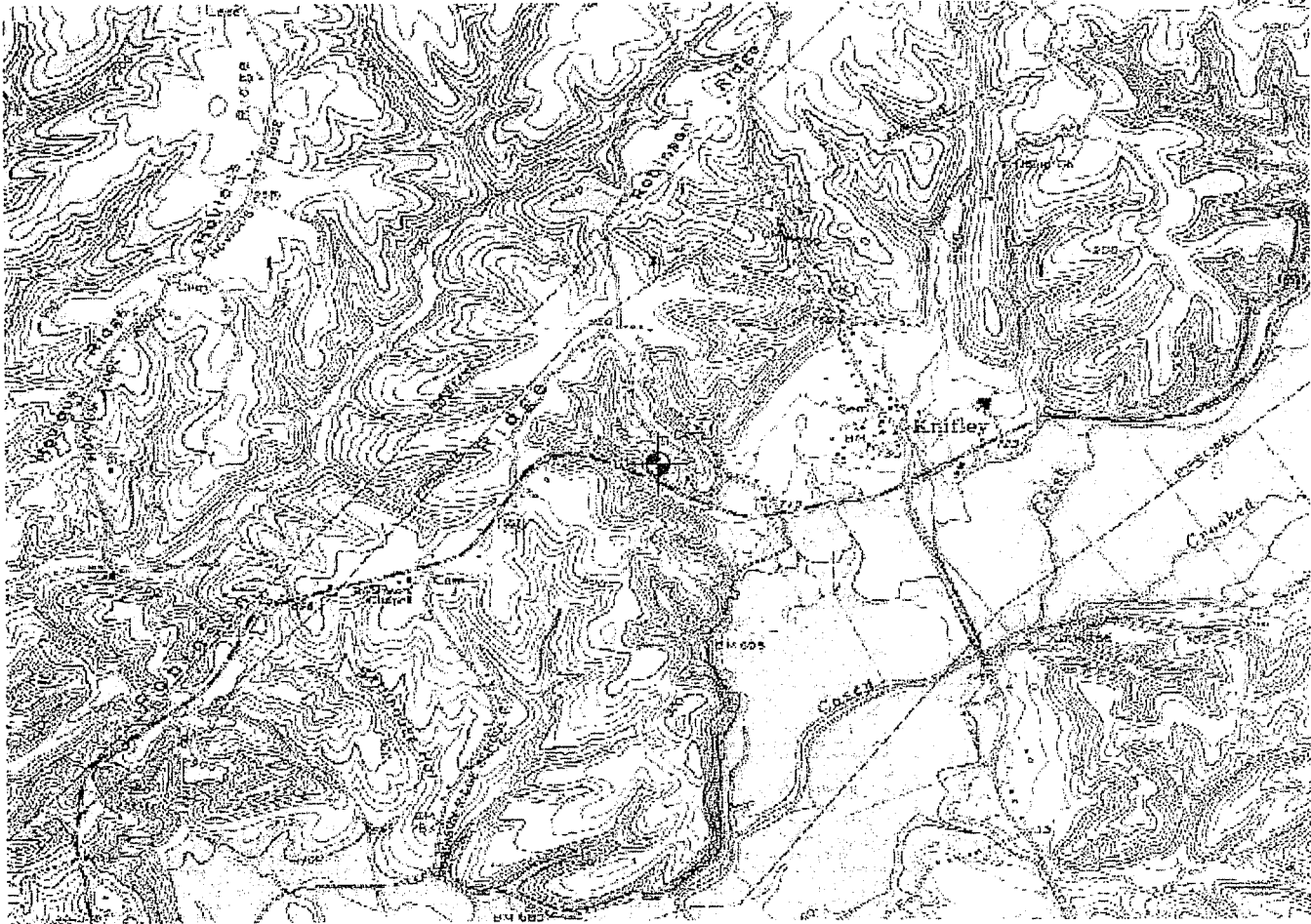
A copy of the approved application is enclosed for your files.

Medium Dual Obstruction Lighting is required:

A handwritten signature in black ink, appearing to read "John Houlihan".

John Houlihan
Administrator







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-000135559-09 **Sponsor:** Bluegrass Cellular, Inc.

Details for Case : Knifley

Show Project Summary

Case Status		Date Accepted: 12/14/2009	
ASN: 2009-ASO-7588-OE		Date Determined:	
Status: Accepted		Letters: None	
		Documents:	12/14/2009 2C-Survey.pdf
			12/14/2009 Knifely-2C-Survey...
			12/14/2009 Knifely-2C-Survey...
Construction / Alteration Information		Structure Summary	
Notice Of: Construction		Structure Type: Antenna Tower	
Duration: Permanent		Structure Name: Knifley	
if Temporary : Months: Days:		FCC Number:	
Work Schedule - Start: 02/10/2010		Prior ASN:	
Work Schedule - End: 02/15/2010			
State Filing: Filed with State			
Structure Details		Common Frequency Bands	
Latitude: 37° 14' 29.29" N		Low Freq	High Freq
Longitude: 85° 11' 59.49" W		806	824
Horizontal Datum: NAD83			
Site Elevation (SE): 861 (nearest foot)		824	849
Structure Height (AGL): 255 (nearest foot)		851	866
Requested Marking/Lighting: Dual-red and medium intensity		869	894
Other :		896	901
Recommended Marking/Lighting:		901	902
Current Marking/Lighting: N/A New Structure		930	931
Other : <input type="text"/>		931	932
		932	932.5
		935	940
		940	941
		1850	1910
		1930	1990
Nearest City: Knifley		2305	2310
Nearest State: Kentucky		2345	2360
Description of Location: Site is located on: Tucker Warren Road Knifley, KY 42753		Freq Unit	ERP
Description of Proposal: Proposed self-supporting tower with top-mounted antennas fro overall height of 255'.			ERP Unit
			500 W
			500 W
			500 W
			500 W
			500 W
			7 W
			3500 W
			3500 W
			17 dBW
			1000 W
			3500 W
			1640 W
			1640 W
			2000 W
			2000 W
		Specific Frequencies	



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

Aeronautical Study No.
2009-ASO-7588-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 Knifley
Location:	Knifley, KY
Latitude:	37-14-29.29N NAD 83
Longitude:	85-11-59.49W
Heights:	255 feet above ground level (AGL) 1116 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.

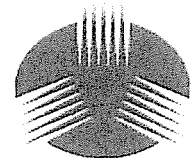
It is required that FAA Form 7460-2, Notice of Actual Construction or Alteration, be completed and returned to this office any time the project is abandoned or:

At least 10 days prior to start of construction (7460-2, Part I)
 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.

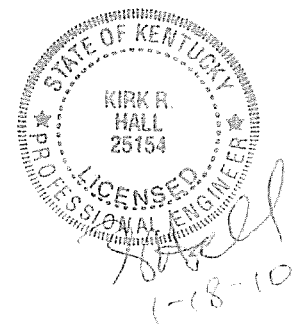
NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE POSTMARKED OR DELIVERED TO THIS OFFICE AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE.

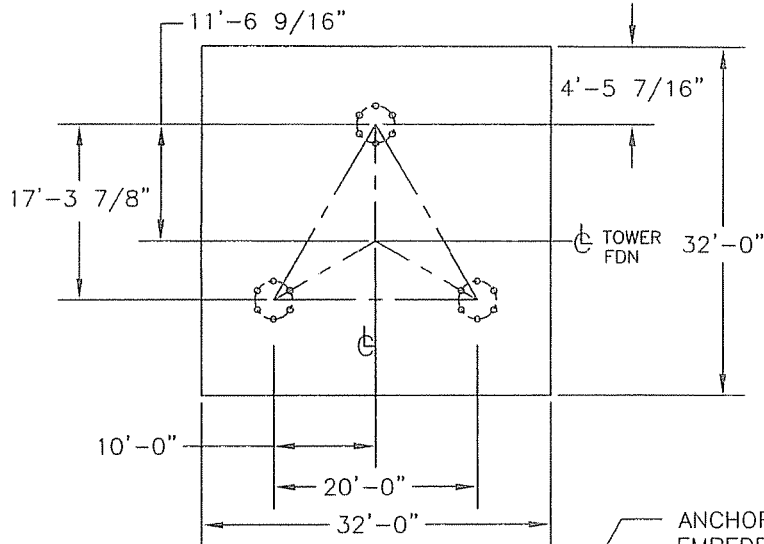


World Tower
COMPANY, INC.

1213 Compressor Drive
P.O. Box 508
Mayfield, KY 42066
270-247-3642
FAX: 270-247-0909
E-mail: worldtower@worldtower.com
Web: www.worldtower.com

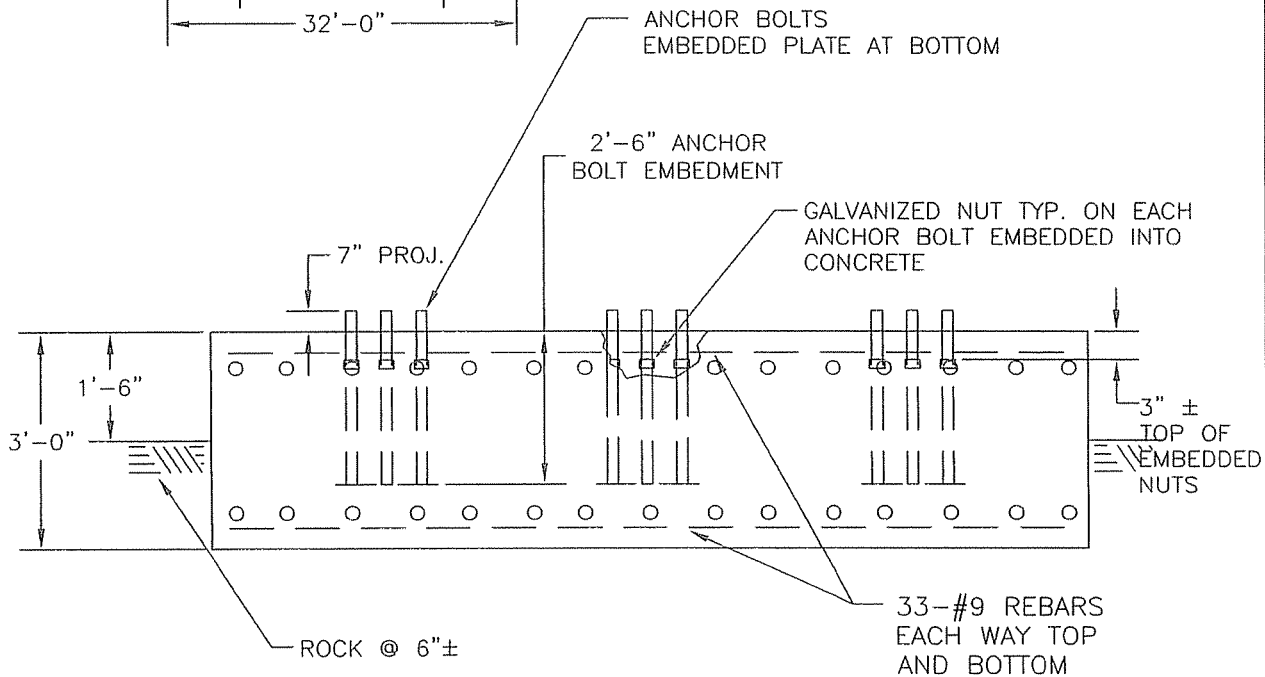
240' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE: KNIFLEY, KY
ADAIR COUNTY
DESIGN PACKAGE





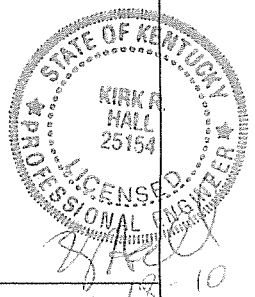
113.8 CU. YDS.
CONCRETE REQ'D.

BASE REACTIONS		
OTM:	6390.0	FT. KIPS
COMP.	395.0	KIPS
UPLIFT	330.0	KIPS
SHEAR (3 LEGS)	50.0	KIPS
WT. NO ICE	79.0	KIPS
WT. 3/4" ICE	188.0	KIPS



GENERAL NOTES

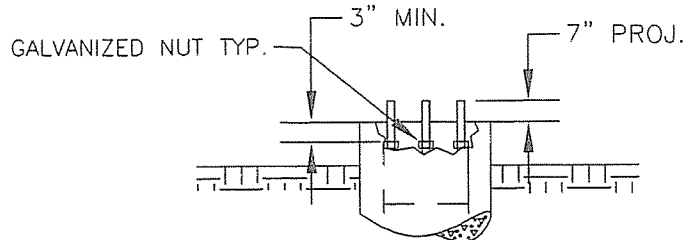
1. CONCRETE TO HAVE 4000 PSI MIN. COMPRESSIVE STRENGTH AFTER 28 DAYS.
2. ALL REINFORCEMENT STEEL IS DEFORMED AND MEETS THE STRENGTH REQUIREMENTS OF ASTM A615 GRADE 60.
3. EMBEDDED STEEL TO HAVE 3" MIN. CONCRETE COVER.
4. FOUNDATION DESIGN IS BASED ON CUSTOMER SUPPLIED SOIL DATA FROM TERRACON. PROJECT NO. 57097358 DATED JANUARY 4, 2010.



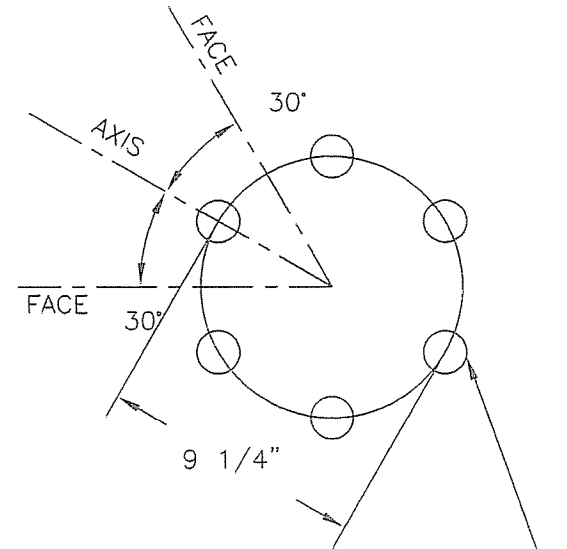
TITLE: FOUNDATION DETAIL
240' MODEL WSST TOWER
FOR: BLUEGRASS CELLULAR
SITE: KNIFLEY, KY
ADAIR COUNTY

WORLD TOWER

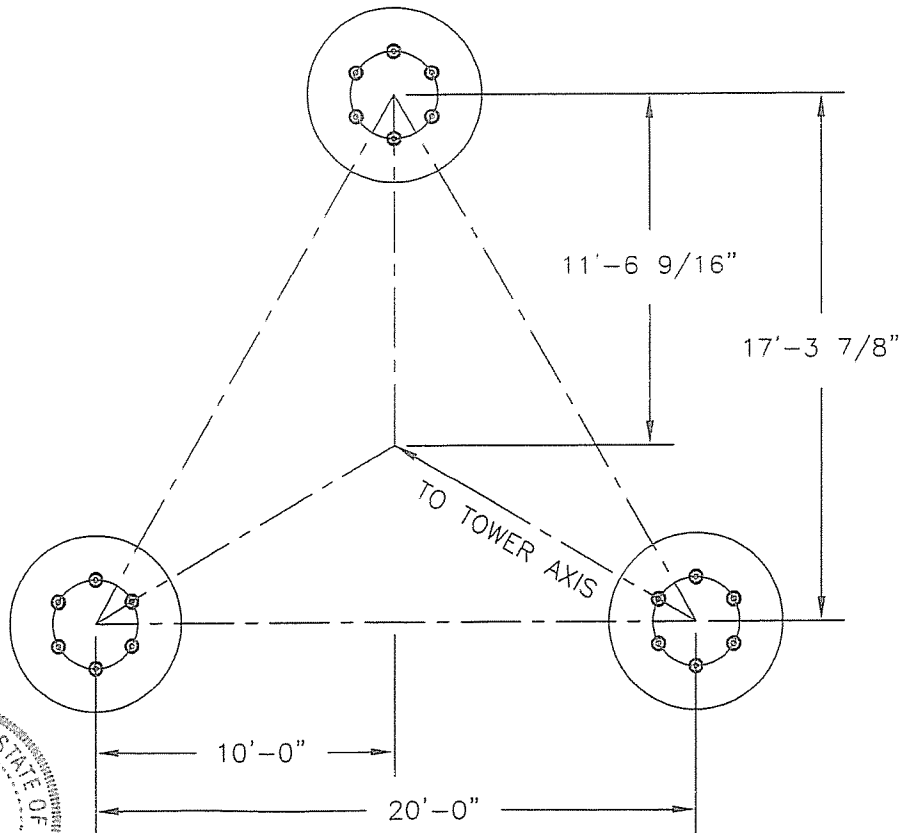
SCALE NONE DWN. LKB CKD. DATE 1-18-10
FILE DWG. NO. Q10035F



PIER ELEVATION



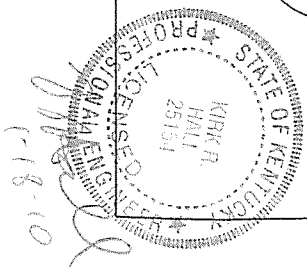
ANCHOR BOLTS 6 (18 TOTAL)
 1 1/4" ϕ X 37" ASTM A354 GR. BC
 EQUALLY SPACED ON A 9 1/4"
 DIA. BOLT CIRCLE WITH TOP TEMPLATE
 AND EMBEDDED PLATE

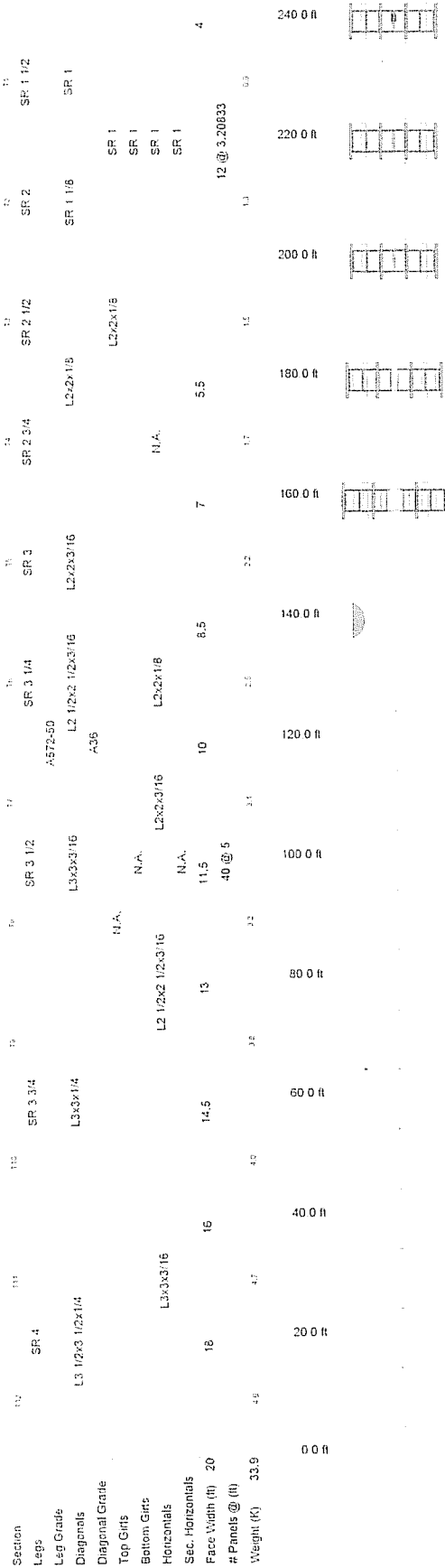


WORLD TOWER

TITLE: ANCHOR BOLT LAYOUT
 240' MODEL WSST TOWER
 FOR: BLUEGRASS CELLULAR
 SITE : KNIFLEY, KY
 ADAIR COUNTY

SCALE NONE	DWN. LKB	CKD.	DATE 1-18-10
FILE	DWG. NO. Q10035AB		





DESIGNED APPURTENANCE LOADING

TYPE	ELEVATION	TYPE	ELEVATION
Flash Beacon Lighting	240	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	200
WD13X53 Antenna Mounting Frame (w/ 75)	240	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	200
WD13X53 Antenna Mounting Frame (w/ 75)*	240	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	200
WD13X53 Antenna Mounting Frame (w/ 75)*	240	WD13X53 Antenna Mounting Frame (w/ 75)*	180
(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	240	WD13X53 Antenna Mounting Frame (w/ 75)*	180
(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	240	WD13X53 Antenna Mounting Frame (w/ 75)*	180
(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	240	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	180
WD13X53 Antenna Mounting Frame (w/ 75)*	220	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	180
WD13X53 Antenna Mounting Frame (w/ 75)*	220	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	180
(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	220	WD13X53 Antenna Mounting Frame (w/ 75)*	160
(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	220	WD13X53 Antenna Mounting Frame (w/ 75)*	160
WD13X53 Antenna Mounting Frame (w/ 75)*	200	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	160
WD13X53 Antenna Mounting Frame (w/ 75)*	200	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	160
(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	200	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	160
(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5 9")*	200	WD13X53 Antenna Mounting Frame (w/ 75)*	140
WD13X53 Antenna Mounting Frame (w/ 75)*	200	6' Grid Dish	140

MATERIAL STRENGTH

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

TOWER DESIGN NOTES

- 1 Tower designed for Exposure C to the TIA-222-G Standard
- 2 Tower designed for a 90.00 mph basic wind in accordance with the TIA-222-G Standard
- 3 Tower is also designed for a 30.00 mph basic wind with 0.75 in ice. Ice is considered to increase in thickness with height.
- 4 Deflections are based upon a 60.00 mph wind
- 5 Tower is designed for feedlines distributed on 3 tower faces with a maximum of 6 lines exposed to the wind on any one face
- 6 Weak link in diagonals from 140' to 120' for theoretical fall radius of half the tower height
- 7 TOWER RATING: 95.5%

MAX CORNER REACTIONS AT BASE
 DOWN: 395 K
 UPLIFT: -330 K
 SHEAR: 32 K

AXIAL
188 K

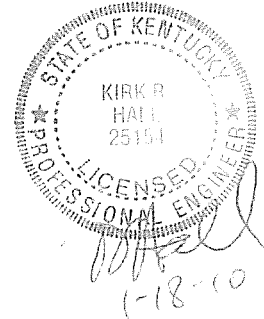
SHEAR 6 K
MOMENT 834 kip-ft

TORQUE 1 kip-ft
 30.00 mph WIND - 0.75 in ICE

AXIAL
79 K

SHEAR 50 K
MOMENT 6390 kip-ft

TORQUE 3 kip-ft
 REACTIONS - 90.00 mph WIND



World Tower Company 1213 Compressor Drive Mayfield, Kentucky 42066 Phone: (270) 247-3642 FAX: (270) 247-0909	Job 240' WSST Standard / Job Q10-035 Project Kniffley, Kentucky Client: Bluegrass Cellular Code: TIA-222-G Date: 01/17/10 Path: C:\Tower\PE_Runs\2010\Q10-035_Kniffley\210-035.dwg	Drawn by: Kirk Hall App'd: Scale: NTS Dwg No: E-1
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Geotechnical Engineering Report

Proposed 240' Self-Supporting Tower

Site Name: Knifley

Knifley, Adair County, Kentucky

February 22, 2010

Terracon Project No. 57097358

Prepared for:

Cumberland Cellular Partnership

A Kentucky General Partnership

d/b/a Bluegrass Cellular

Prepared by:

Terracon Consultants, Inc.

Louisville, Kentucky

Offices Nationwide
Employee-Owned

Established in 1965
terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

February 22, 2010



Cumberland Cellular Partnership
A Kentucky General Partnership
d/b/a Bluegrass Cellular
2902 Ring Road
Elizabethtown, Kentucky 42702

Attention: Mr. Doug Updegraff

Regarding: Geotechnical Engineering Report
Proposed 240' Self-Support Tower
Site Name: Knifley
Knifley, Adair County, Kentucky
Terracon Project Number: 57097358

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.

Matthew R. Haines, E.I.
Project Manager

Projects_57097358_Geotechnical Report doc.doc

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

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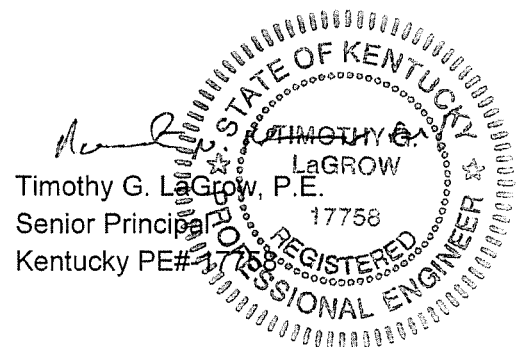


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APPENDIX

- Boring Location Plan
- Boring Log
- Field Exploration Procedures
- Laboratory Test Procedures
- General Notes
- Unified Soil Classification
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GEOTECHNICAL ENGINEERING REPORT PROPOSED COMMUNICATION TOWER KNIFLEY, ADAIR COUNTY, KENTUCKY

Terracon Project No. 57097358
February 22, 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: ¼ inch over 40 feet (assumed)
Grading	Minimal cut/fill; existing grade ±2 foot (assumed)

1.2 Site Location and Description

ITEM	DESCRIPTION
Location	Latitude: 37.24150 / Longitude: -85.19986 (approximate) Site Address: 211 Tucker Warren Rd., Knifley, KY 42753
Existing improvements	Undeveloped
Current ground cover	Grassed
Ground surface elevation	± 870 Feet AMSL (from provided survey information)
Existing topography	Gently sloping 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, claystone, and limestone. Claystone, bright-green to greenish-gray, with few small lenses of calcareous shale, limestone, and sandstone. Lower part generally massive and structureless, breaking into blocks with conchoidal fracture, slakes on contact with air, disaggregates into thin mud in water. Upper part fissile or shaly, top 3 to 5 feet mostly characterized by numerous brachiopods and trilobites, glauconite, and thin limestone beds. May be gradational upward into siltstone. Basal 6 inches to 2 feet characterized by numerous greenish-gray to gray phosphatic nodules, some with an organic nucleus. Lower part probably correlative with Maury Formation. Remainder tentatively correlated with the New Providence Formation.

1. Based on information provided by the Kentucky Geological Survey (<http://kgs.uky.edu/kgsmap>) for Adair County, Knifley 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 - Auger Refusal	Topsoil	N/A
Stratum 1	15 -- Coring Terminated	Competent Limestone ¹	Recovery 97 to 100% RQD = 95 to 98%

1. Slightly weathered, hard to very hard; measured unconfined compressive strength of non-fragmented rock core specimens ranges from 6,150 to 10,150 psi; unit weight or 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

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

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 use 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 System

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.

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)
Topsoil 0 – ½	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore	Ignore
Bedrock ½ – 15	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 limestone bedrock.
2. The pier should be embedded a minimum of 3 feet into competent limestone to mobilize these higher rock strength parameters. Furthermore, it is assumed the rock socket will be extended using coring techniques rather than blasting/shooting.

The 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 limestone. 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 limestone bedrock, settlements are not anticipated to exceed ½ inch.

The upper ½ foot of 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 (next page).

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

DESCRIPTION	VALUE
Foundation Subgrade ¹	Competent limestone or engineered granular fill extending to competent rock.
Net allowable bearing pressure ²	4,000 psf
Allowable passive pressure ³	Neglect
Coefficient of sliding friction ³	0.5
Vertical Modulus of Subgrade Reaction (pci0)	200
Minimum embedment below finish grade for frost protection	18 inches
Approximate total settlement ⁴	1 inch or less

1. If the bedrock provides an irregular bearing surface for the mat foundation, over excavated areas should be backfilled with well graded granular fill. The material should be compacted to 98% of maximum dry density as shown in table 3.6.2 Compaction Requirements. 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

The use of permanent rock anchors can be used to 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 Post-Tensioning Institute (PTI), 2004, indicate typical average ultimate rock/grout bond stresses in competent limestone between 200 and 300 psi. For design purposes, and based on observed RQD, we recommend an ultimate rock/grout bond stress of 250 psi be utilized. 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 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 125 psi
- Assume a rock engagement angle of 90° (*i.e.* half-angle, $\beta = 45^\circ$)
- 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 limestone bedrock
Net allowable bearing pressure ²	2,000 psf
Minimum footing sizes Isolated: Wall :	2 feet by 2 feet 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

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 compacted fill, and the quality of the earthwork activities.

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 (shown on following page):

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.

(Cont. from Previous Page)

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 Requirements¹	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.

APPENDIX

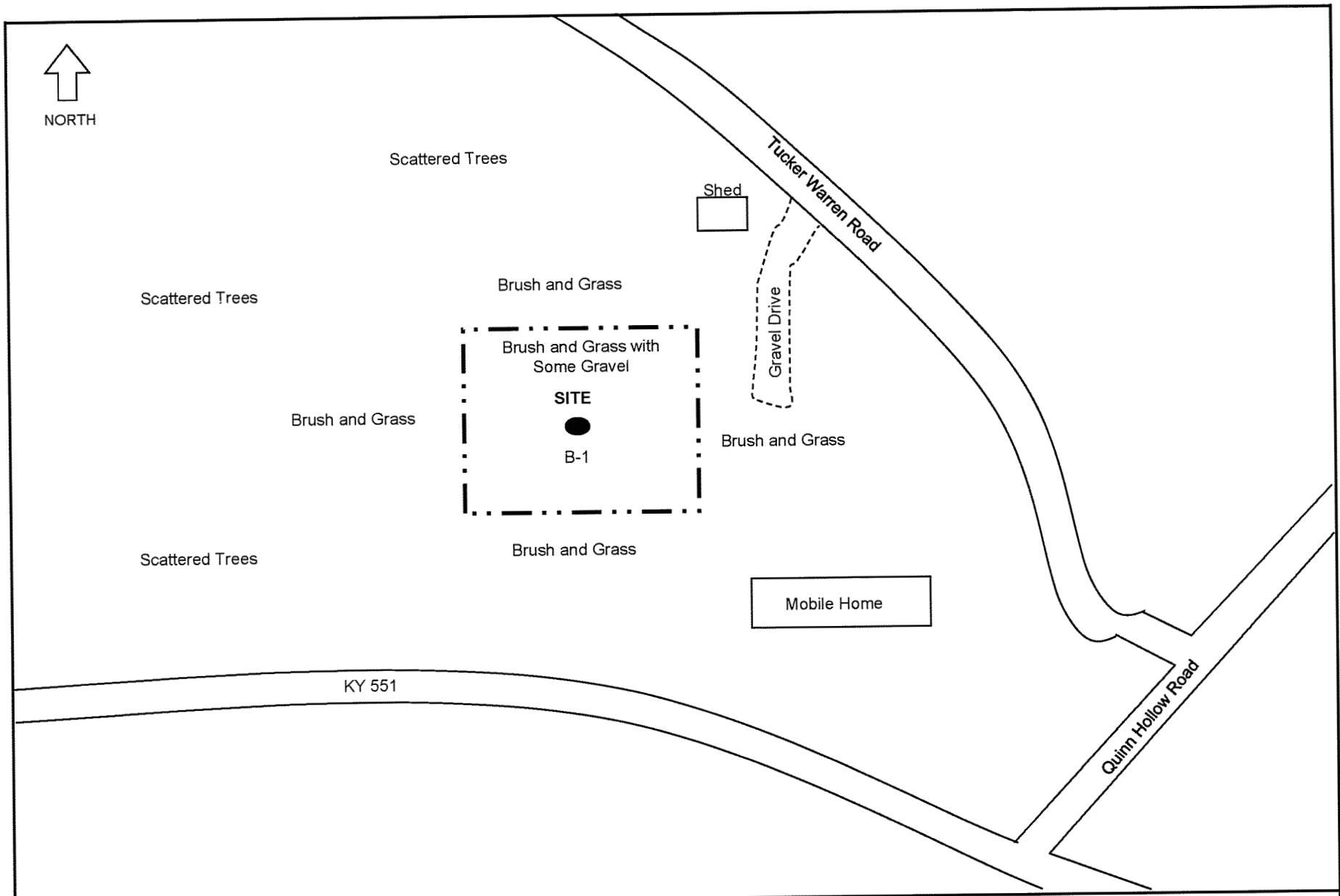


Figure 2
BORING LOCATION DIAGRAM
 SCALE: NTS



Cumberland Cellular Partnership –
 Knifley Site
 Tucker Warren Road
 Knifley, Kentucky
 PROJECT NO. 57097358

LOG OF BORING NO. B-1

CLIENT Cumberland Cellular Partnership									
SITE Tucker Warren Road Knifley, Kentucky		PROJECT 240' Self-Supporting Tower Knifley Tower Site							
GRAPHIC LOG	DESCRIPTION	DEPTH, ft.	USCS SYMBOL	SAMPLES				TESTS	
				NUMBER	TYPE	RECOVERY, in.	SPT - N BLOWS / ft.	WATER CONTENT, %	DRY UNIT WT pcf
	Approx. Surface Elev.: 870 ft								
0.5	TOPSOIL	869.5							
	Auger refusal at 0.5 feet, water introduced and coring began								
	LIMESTONE , slightly weathered, gray, hard to very hard								
		5							
		10							
		15							
	Coring terminated at 15 feet	855							

The stratification lines represent the approximate boundary lines between soil and rock types: in-situ, the transition may be gradual. **CME 140H SPT automatic hammer

BOREHOLE 99-57097358 BORING LOGS.GPJ TERRACON.GDT 2/22/10

WATER LEVEL OBSERVATIONS, ft		<h1 style="margin: 0;">Terracon</h1>		BORING STARTED 12-17-09	
WL	▽			BORING COMPLETED 12-17-09	
WL	▽			RIG CME 550	FOREMAN MW
WL	N/E			APPROVED BK	JOB # 57097358

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 Plan. 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. Auger refusal was encountered at a depth of about ½ foot below the established grade. 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

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

<u>Unconfined Compressive Strength, Qu, psf</u>	<u>Standard Penetration or N-value (SS) Blows/Ft.</u>	<u>Consistency</u>
< 500	<2	Very Soft
500 – 1,000	2-3	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

<u>Standard Penetration or N-value (SS) Blows/Ft.</u>	<u>Ring Sampler (RS) Blows/Ft.</u>	<u>Relative Density</u>
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

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

GRAIN SIZE TERMINOLOGY

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

RELATIVE PROPORTIONS OF FINES

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

PLASTICITY DESCRIPTION

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

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	< 0.75	OL	Organic clay ^{K,L,M,N}
			Liquid limit - not dried		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	< 0.75	OH	Organic clay ^{K,L,M,P}
			Liquid limit - not dried		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

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

^F If soil contains $\geq 15\%$ 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 $\geq 15\%$ 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 $\geq 30\%$ plus No. 200 predominantly sand, add "sandy" to group name.

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

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

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

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

^Q PI plots below "A" line.

GENERAL NOTES

Description of Rock Properties

WEATHERING

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

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

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

Joint, Bedding and Foliation Spacing in Rock^a

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

Rock Quality Designator (RQD)^a

Joint Openness Descriptor^b

RQD, as a percentage	Diagnostic description	Openness	Descriptor
Exceeding 90	Excellent	No Visible Separation	Tight
90 – 75	Good	Less than 1/32 in.	Slightly Open
75 – 50	Fair	1/32 to 1/8 in.	Moderately Open
50 – 25	Poor	1/8 to 3/8 in.	Open
Less than 25	Very poor	3/8 in. to 0.1 ft.	Moderately Wide
		Greater than 0.1 ft.	Wide

a. Spacing refers to the distance normal to the planes, of the described feature, which are parallel to each other or nearly so.

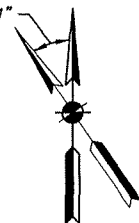
b. RQD (given as a percentage) = length of core in pieces 4 in. and longer/length of run.

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

Site: Knifley
Lease Boundary and Topographic Survey
Adair County, Kentucky

Reduced Copy

True North
Grid North
00°20'01"



Basis of Bearings

The bearing system of this survey is based upon G.P.S. observations made on December 3, 2009 using the National Geodetic Survey monument "Z 225" and the Kentucky State Plane Coordinate System, South Zone, NAD 1983 (2007). This system is grid north.

Tower Location Information

Designation: Knifley
 Site ID#: None
 Horizontal Datum: NAD 1983 (2007)
 Latitude: 37°14'29.29" North
 Longitude: 85°11'59.49" West
 Vertical Datum: NAVD 1988
 Ground Elevation: 861.1 feet (262.46 m)
 State Plane Coordinates
 Northing: 1,971,522.68 feet (600,921.315 m)
 Easting: 1,800,557.14 feet (548,810.914 m)

Landowner Information

Landowners: John and Dorcas Martin
 Address: 11224 Knifley Road
 Knifley, KY 42753
 Contact Person: John Martin
 Phone: 270-789-2505 Cell: 270-469-5037
 PVA Map No. 084-094,001

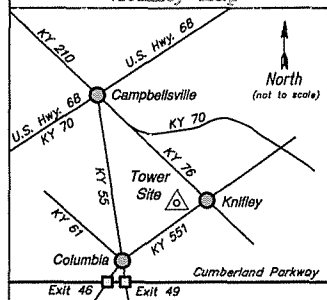
Project Bench Mark

Northing: 1,971,642 feet (600,958 m)
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 Elevation: 863.18 feet (263.098 m)
 Description: A railroad spike set in the west side of a utility pole, 12" above grade. The bench mark is 119 feet north of the center of the tower.

Flood Plain Statement

According to the FEMA web site, this is an unmappped area. No flood information is available for the unincorporated areas of Adair County, Kentucky. However, a visual inspection of the site would indicate that the subject site does not lie within a flood prone area.

Vicinity Map



Directions to Site

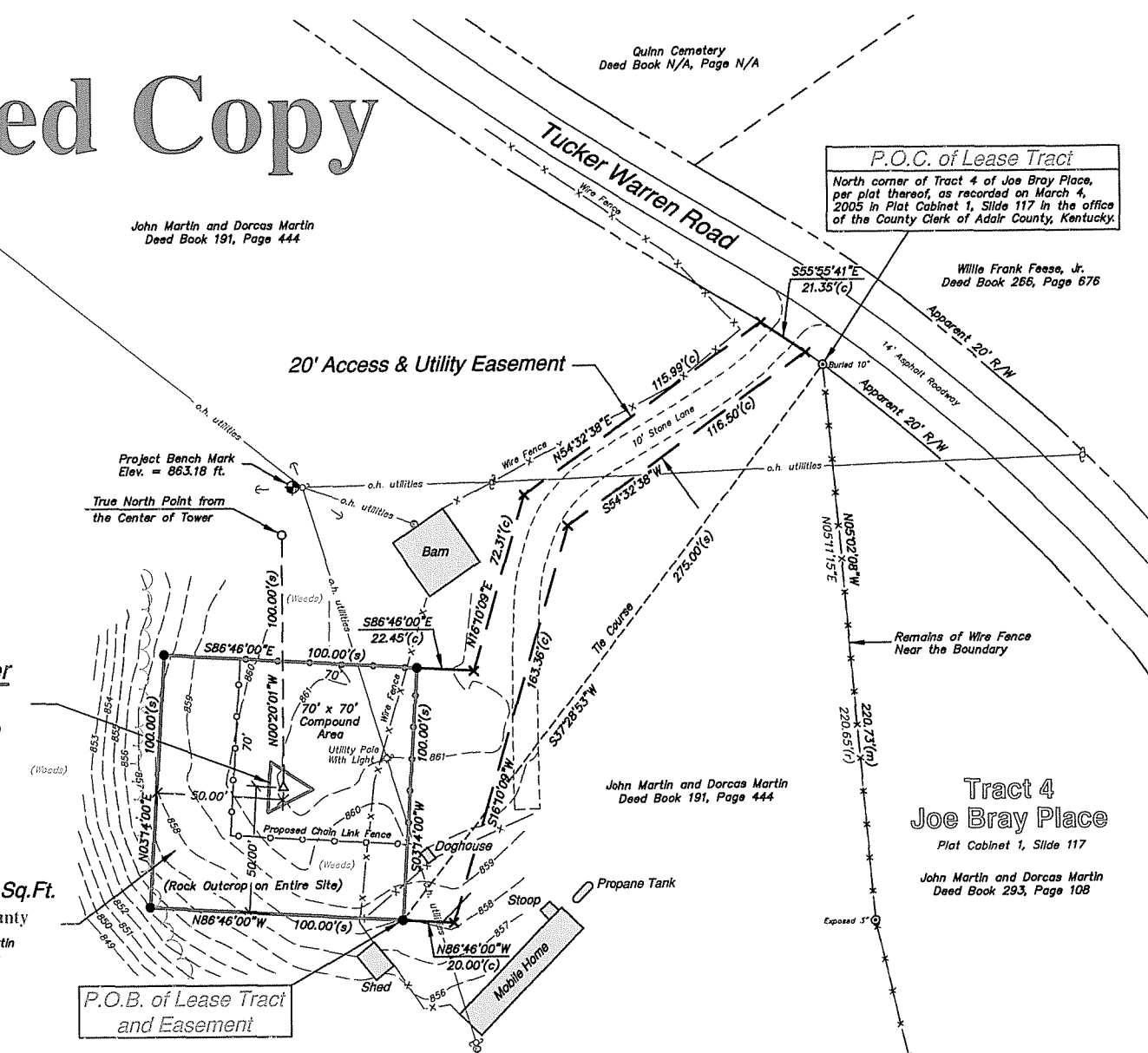
From Elizabethtown, Kentucky: travel south on Kentucky Highway 210 for about 40 miles to Campbellsville and Kentucky Highway 70; turn left onto Kentucky Highway 70 and travel easterly for about 5 miles to Kentucky Highway 76; turn right onto Kentucky Highway 76 and travel southeast for about 10 miles to Knifley and Kentucky Highway 551; turn right onto Kentucky Highway 551 and travel southwest for 0.5 miles to Quinn Hollow Road; turn right onto Quinn Hollow Road and travel north for 90 feet to Tucker Warren Road; turn left onto Tucker Warren Road and travel northwest for 0.2 miles to a stone drive; turn left onto the drive and travel southwest for 250 feet to the tower site near a mobile home and barn.

Proposed Self-Support Tower

Lat. = 37°14'29.29" North (NAD 1983)
 Lon. = 85°11'59.49" West (NAD 1983)
 Ground Elev. = 861.1 feet or 262.46 m (NAVD 1988)

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

John Martin and Dorcas Martin
 Deed Book 191, Page 444



Surveyor's Notes

- This survey is subject to a statement of facts which may be disclosed by an Abstract of Title or a Title Commitment Policy. This documentation was not provided by the client.
- No search of public records has been performed by this firm to determine any defects and/or ambiguities in the title of the parent tract.
- The utilities shown on this plot may or may not represent all of the utilities located on the subject site. The presence of existing utilities was determined by a visual inspection of the property surface. No utility locate was called in prior to this survey. It shall be the responsibility of the contractor to locate utilities prior to construction.
- The topographic information contained on this plot was as requested by the client and may or may not represent all of the topographic features located on the subject property.
- According to Ann Melton, County Judge Executive of Adair County, no local planning unit exists which has geographical jurisdiction of the subject tower site. The County Judge Executive's Office may be contacted at (270) 384-4703 for confirmation.
- The proposed location of the Knifley 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 Exposed 4" - No Cap
- △ Railroad Spike Set Flush
- ⊙ 5/8" Rebar Found As Noted With A Survey Cap Inscribed "T.A. Phipps PLS 2488"
- × Calculated Position - No Monument Found or Set
- Subject Boundaries
- New Easement Boundaries
- - - Right of Way
- - - Other Boundaries
- ⊕ Utility Pole
- ⊖ Electric Meter
- ⊙ Guy Anchor
- (m) Measured
- (r) Recorded
- (c) Calculated
- (s) Set

Lease Boundary and Easement Descriptions

A tract of land that is located about 300 feet southwesterly of Tucker Warren Road and about 900 feet northwesterly of the intersection of said road with Quinn Hollow Road in the Knifley Community of Adair County, Kentucky; said tract being described as follows:

COMMENCING AT the north corner of Tract 4 of Joe Bray Place, per plat thereof, as recorded on March 4, 2005 in Plat Cabinet 1, Slide 117 in the office of the County Clerk of Adair County, Kentucky; said corner being monumented by a 5/8-inch rebar found buried 10 inches with a survey cap inscribed "T.A. Phipps PLS 2488"; thence South 37 degrees 28 minutes 53 seconds West 275.00 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 North 86 degrees 46 minutes 00 seconds West 100.00 feet to a rebar set flush; thence North 03 degrees 14 minutes 00 seconds East 100.00 feet to a rebar set flush; thence South 86 degrees 46 minutes 00 seconds East 100.00 feet to a rebar set flush; thence South 03 degrees 14 minutes 00 seconds West 100.00 feet to the point of beginning and containing 0.230 acres (10,000 square feet), more or less.

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The bearing system of these descriptions is based upon the Kentucky State Plane Coordinate System, South Zone, NAD 1983 (2007), as determined by G.P.S. observations made on December 3, 2009 using the National Geodetic Survey monument "Z 225". 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 6, 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 John Martin and Dorcas Martin on June 9, 1993 in Deed Book 191, page 444 in the office of the County Clerk of Adair County, Kentucky.

Surveyor's Certification

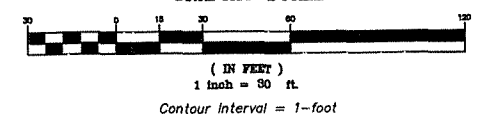
I hereby certify that this plat has been compiled from a survey actually made upon the ground under my direct supervision on December 3, 2009 by the method of a baseline survey with sideshots. The unadjusted precision ratio of the baseline was 1:11,200 and it was not adjusted. This survey is a Class 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 6 2010
 Date



GRAPHIC SCALE



Landmark Surveying Co., Inc.
 15 N.E. 3rd Street
 Washington, Indiana 47501
 (812) 257-0950
 Email: landmark@landmark.net
 Project No. 08-12-0165
 © 2009

Lease Boundary Survey
 211 Tucker Warren Road
 Knifley, Kentucky 42753

Bluegrass Cellular
 2902 Ring Road
 Elizabethtown, Kentucky 42701

REVISIONS	DATE

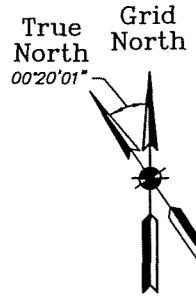
DATE: 1-06-10
 DRAWN BY: A. Winkler
 CHECKED BY: D.L. Helms

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

Site: Knifley

Lease Boundary and Topographic Survey

Adair County, Kentucky



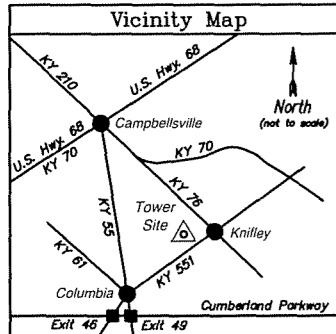
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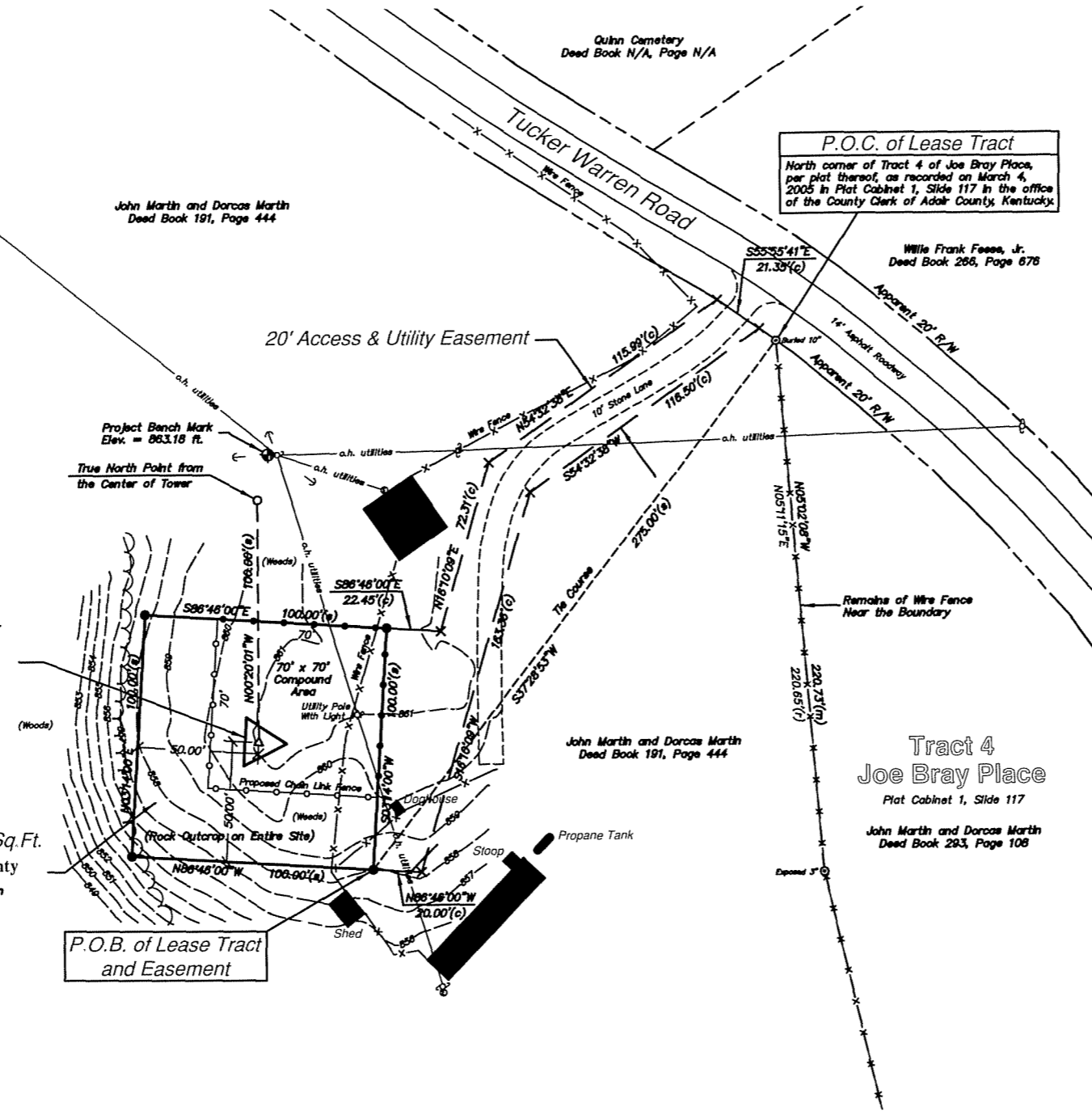


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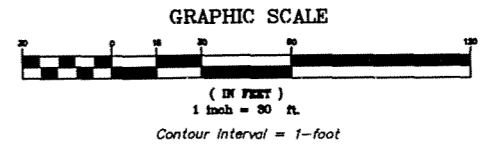
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Darren L. Helms, P.L.S. 3386

Date



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15 N.E. 3rd Street
Washington, Indiana 47501
(812) 257-0950
Email: landmark@landmarksurvey.com
Project No. 08-12-0105
© 2010

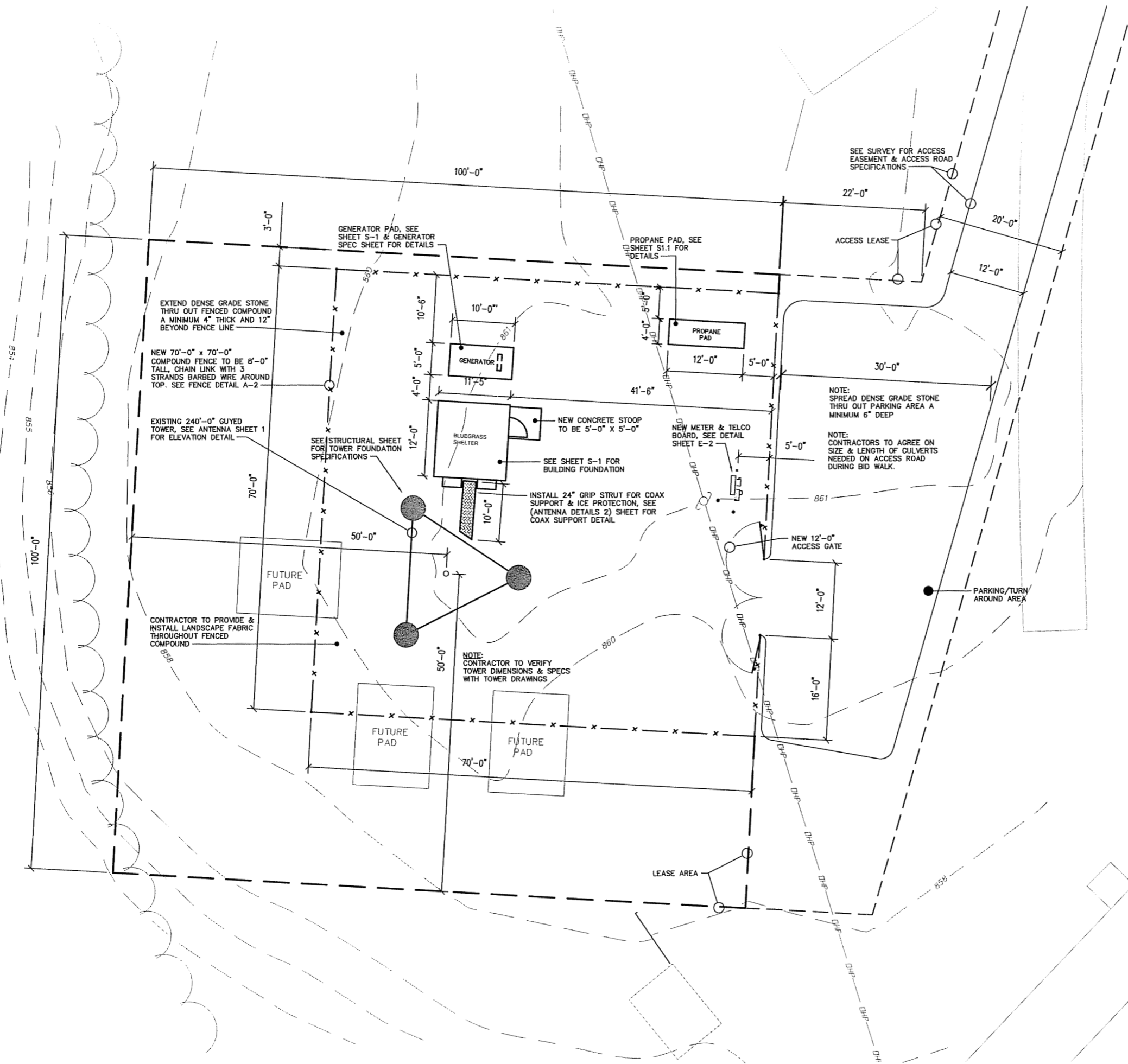
Lease Boundary Survey
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Knifley, Kentucky 42753

Bluegrass Cellular
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Elizabethtown, Kentucky 42701

REVISIONS	DATE

DATE: 1-06-10
DRAWN BY: A. Walker
CHECKED BY: D.L. Helms

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

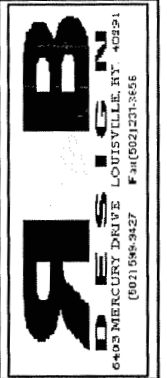


GENERAL NOTES:

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

SITE PLAN

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



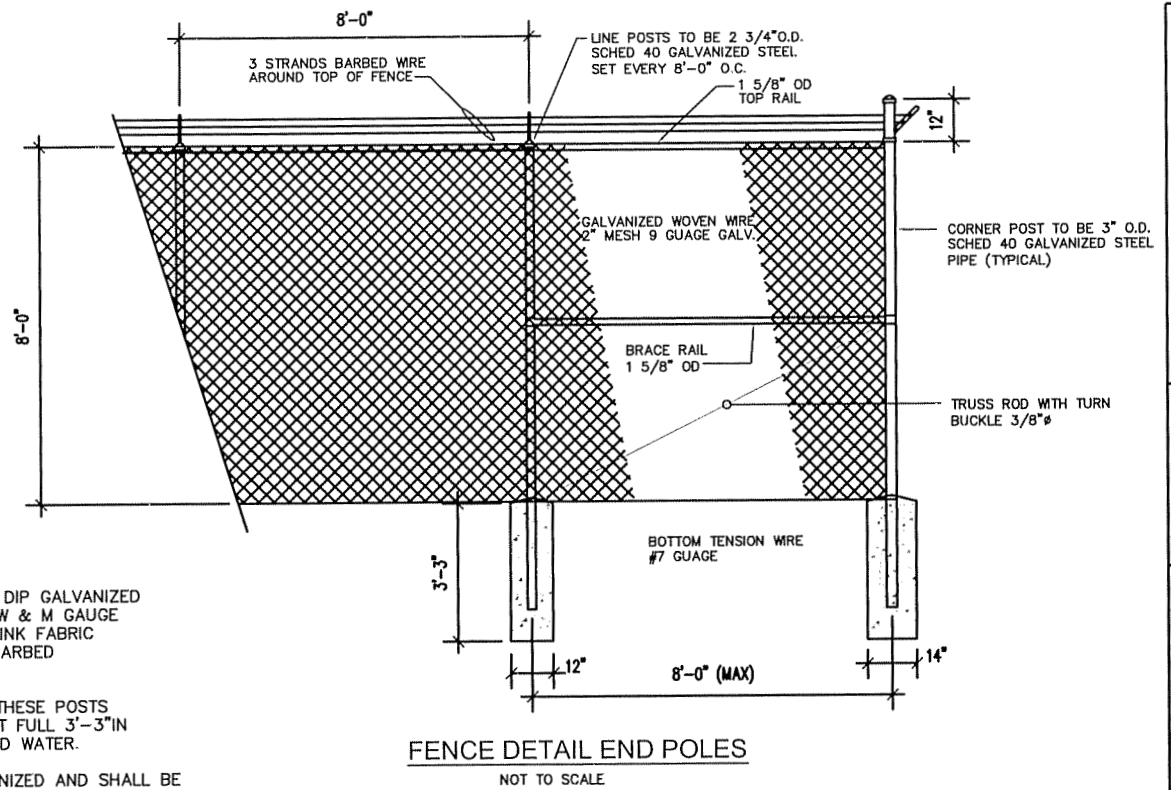
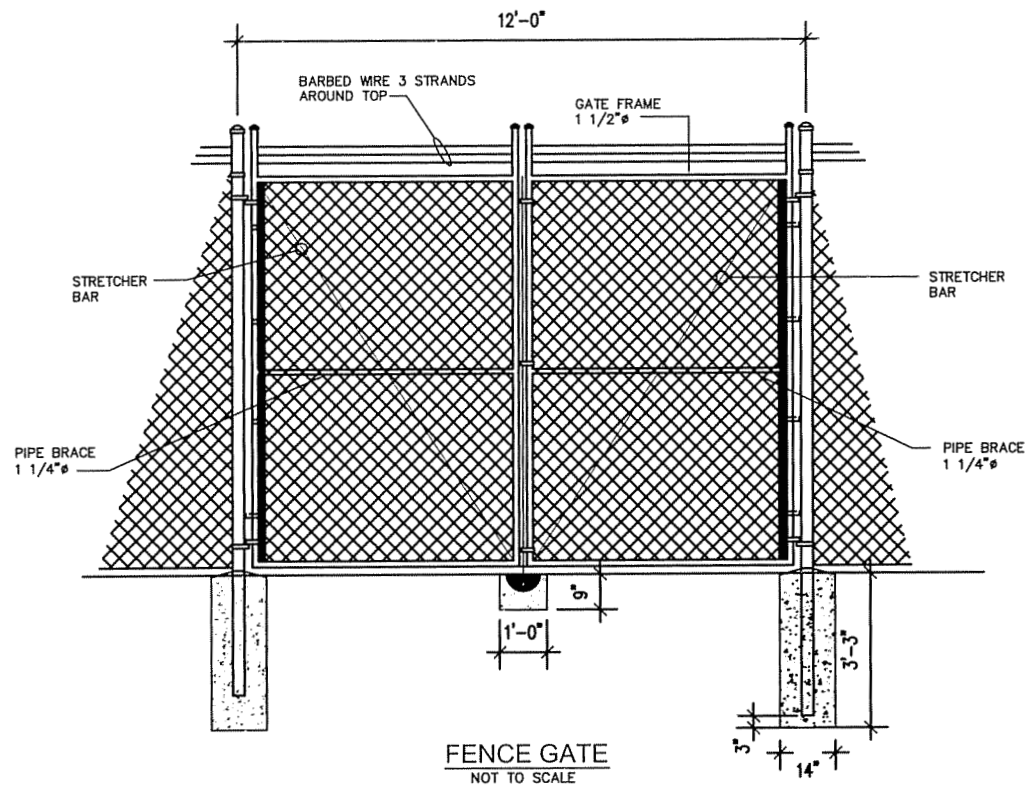
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE

NO.	DATE	REVISION

KNIFLEY
211 TUCKER WARREN RD. KNIFLEY, KY. 42753

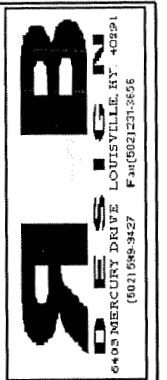
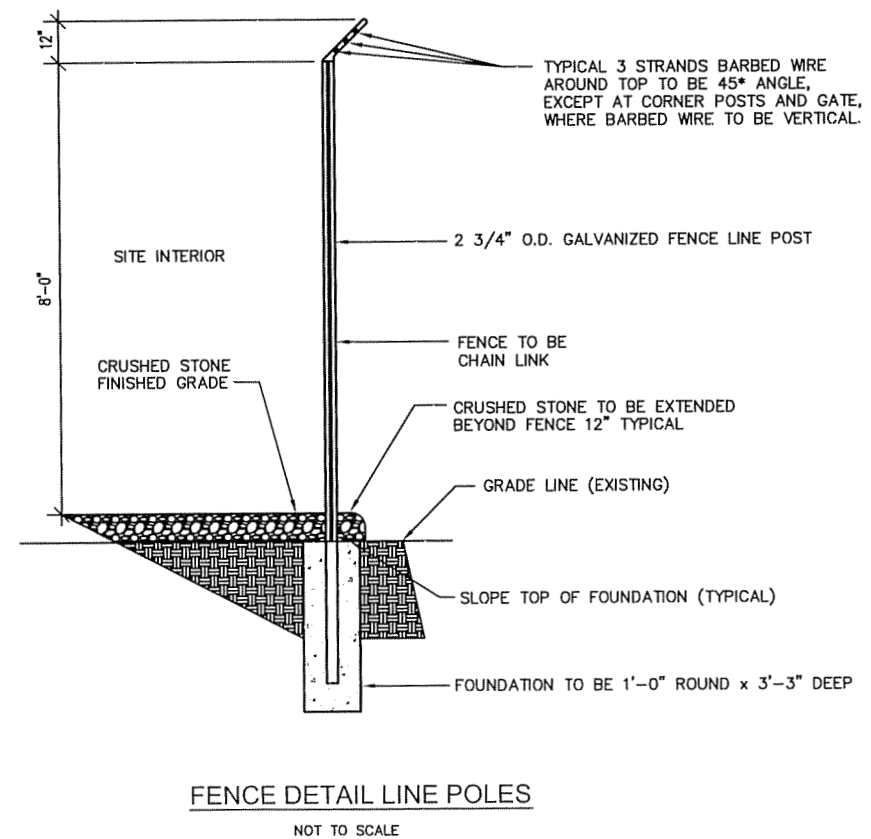
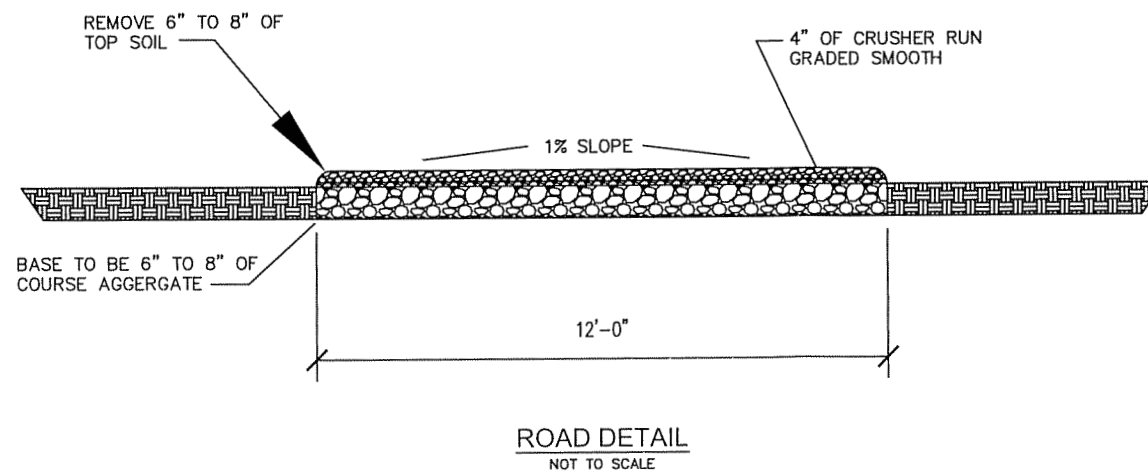
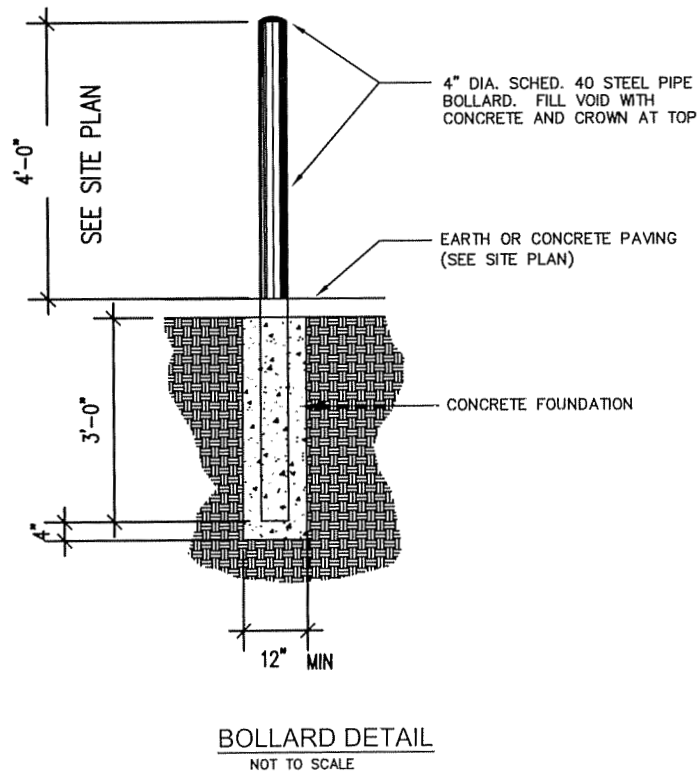
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SHEET NUMBER
A-1



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 GALVANIZED. 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 AVRRERAGING 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 GAUGE 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 GALVANIZED STEEL, 12 GAUGE THICK WIRE, 3 STRANDS 4 POINTS AT 3" O.C.
- 7 **SWING GATE POSTS:** SHALL BE 3" O.C. STANDARD HOT 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.



BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
KNIFLEY

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A-2

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.

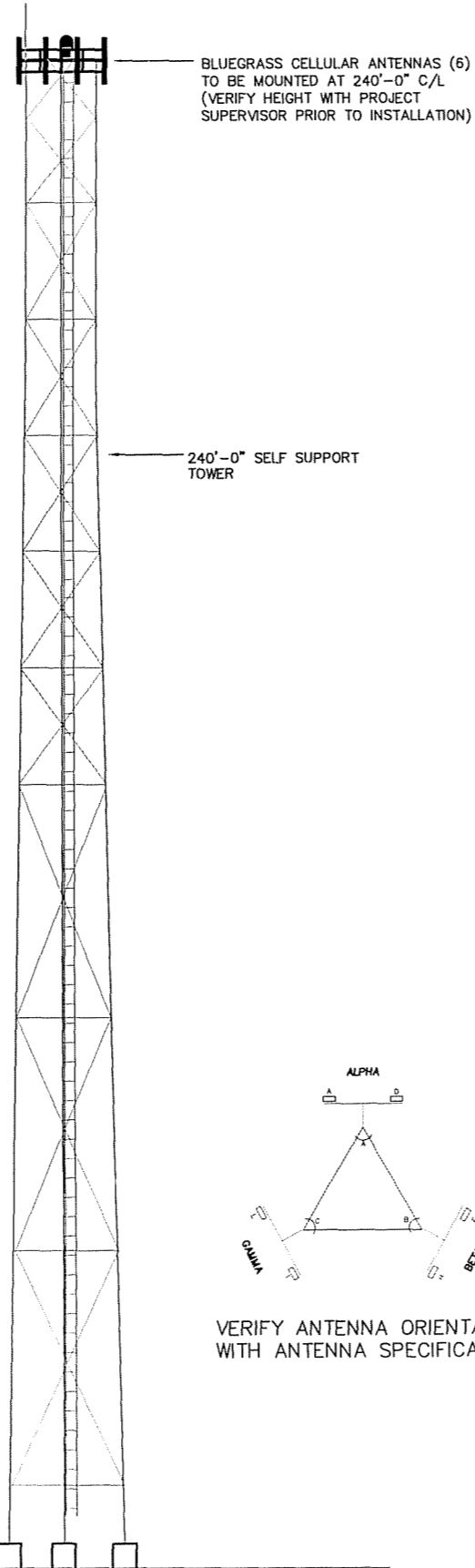
ICE BRIDGE TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. (Additional Ice Bridge if needed)

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

BLUEGRASS CELLULAR GENERAL NOTES & ANTENNA SPECS



SELF SUPPORT TOWER ELEVATION (TYPICAL)

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	0*, 120*, 240*	240'-0" C/L <small>VERIFY WITH CONSTRUCTION SUPERVISOR</small>
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

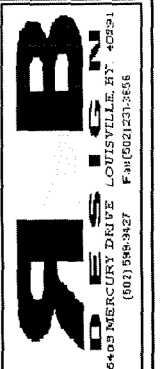
	TYPE	SIZE	NUMBER
MOUNT #1			
MOUNT #2			

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

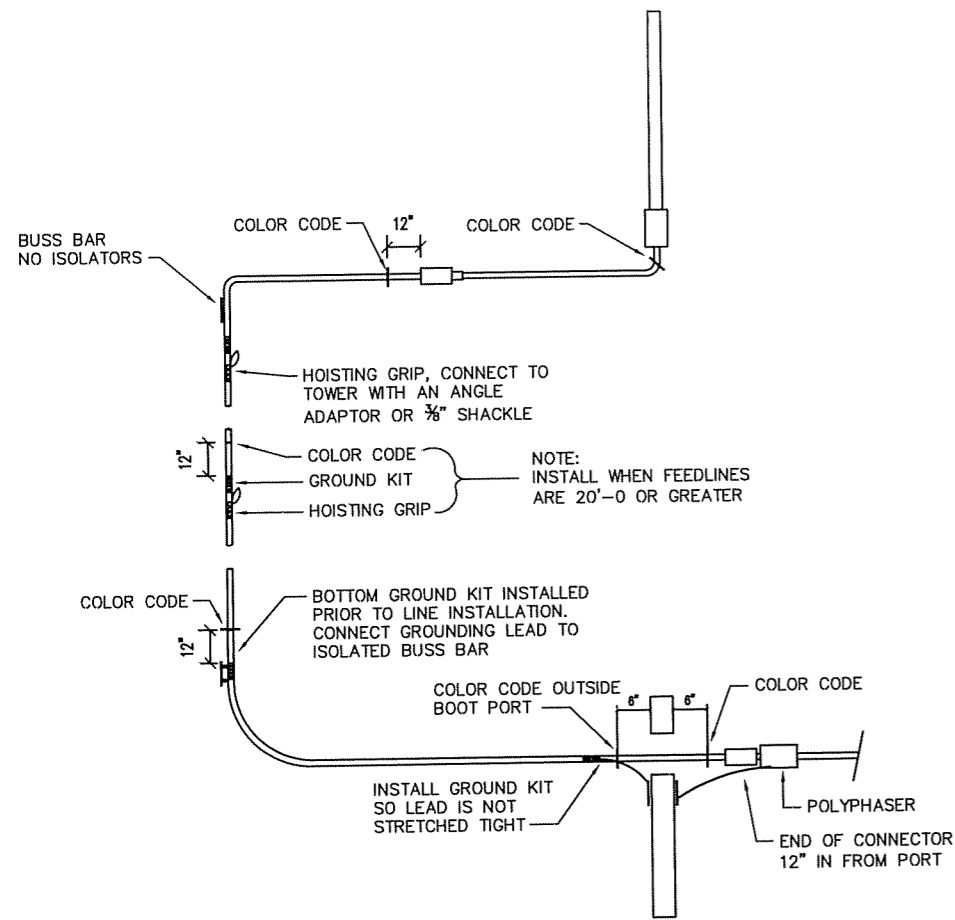


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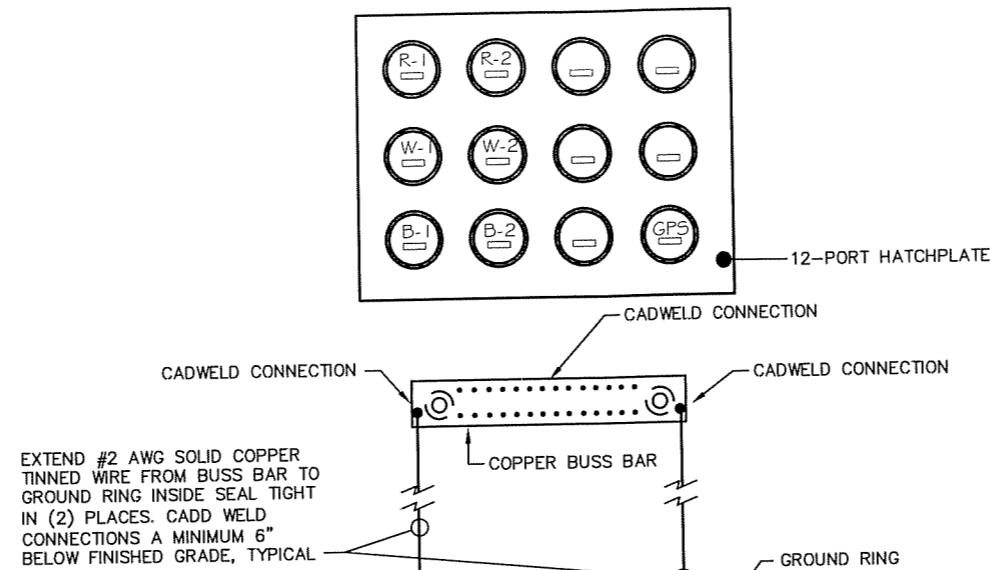
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
KNIFLEY
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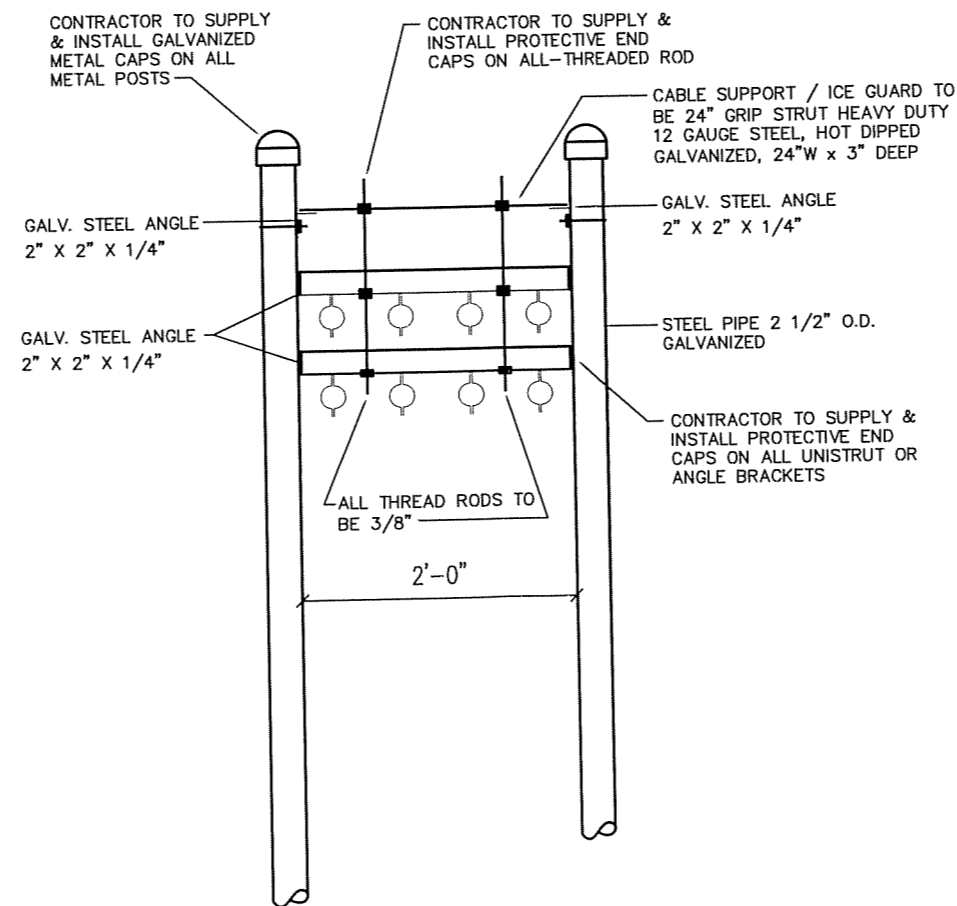
SHEET NUMBER
ANTENNA DETAILS
1



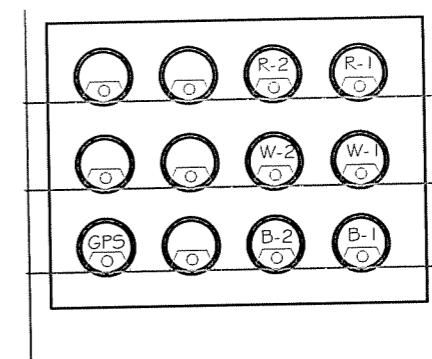
COLOR CODING DETAIL
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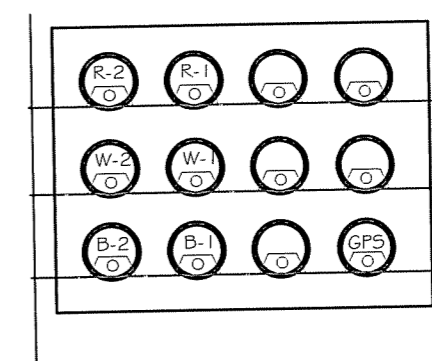
BOOT PORT GROUNDING DETAIL
NO SCALE



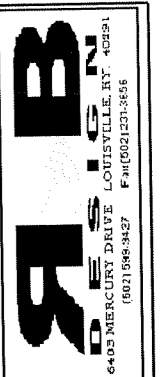
ICE BRIDGE / COAX SUPPORT DETAIL
NO SCALE



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



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

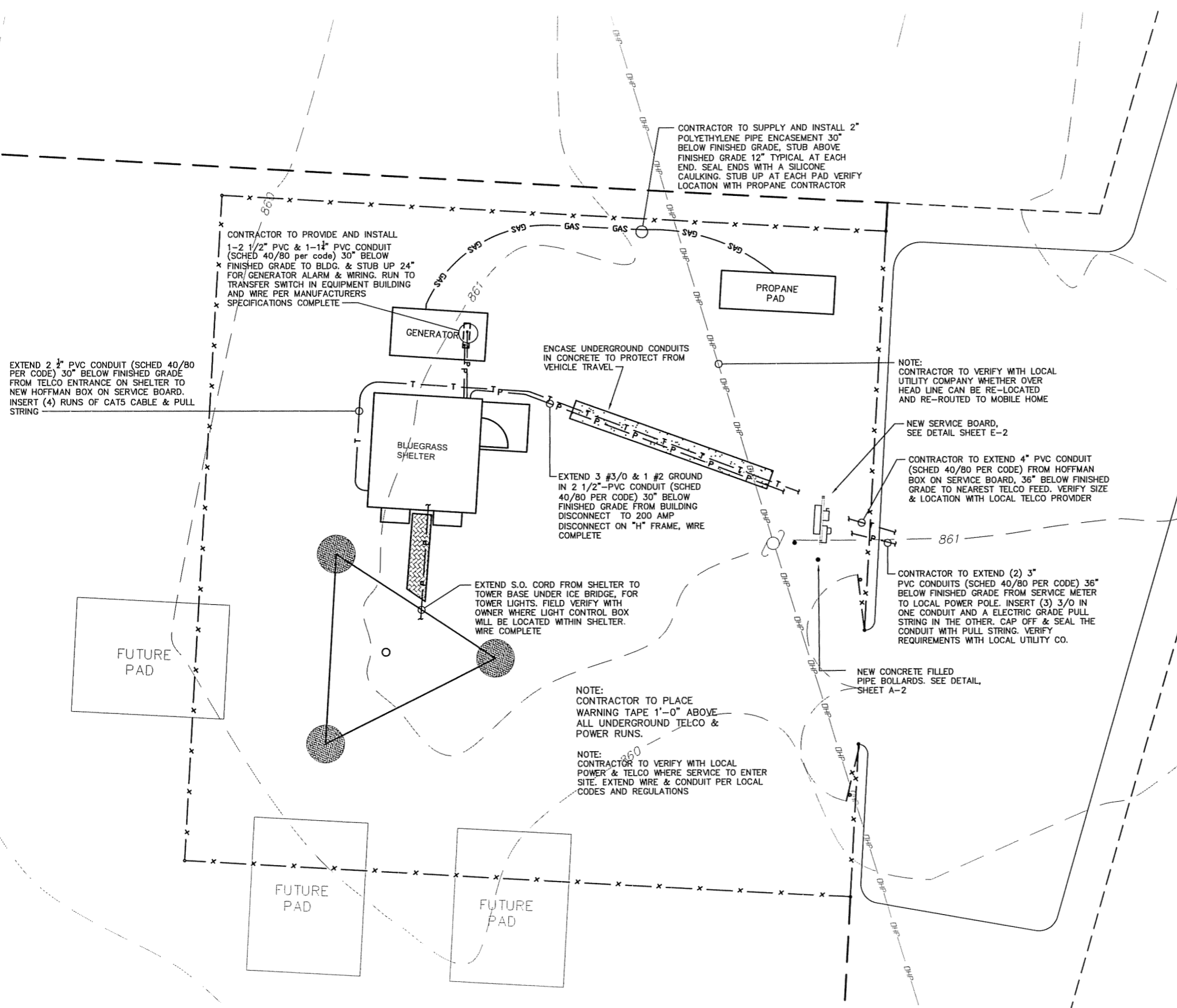


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SHEET NUMBER
ANTENNA DETAILS
2



GENERAL ELECTRICAL NOTES:

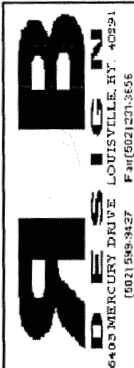
- 1) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL UTILITIES FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.
 - 2) CONTRACTOR RESPONSIBLE FOR MAKING ALL ARRANGEMENTS WITH THE LOCAL TELEPHONE COMPANY FOR SERVICE AND FEE PAYMENTS REQUIRED TO OBTAIN SERVICE.
 - 3) GROUND RING TO BE CONTAINED WITH IN THE 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"



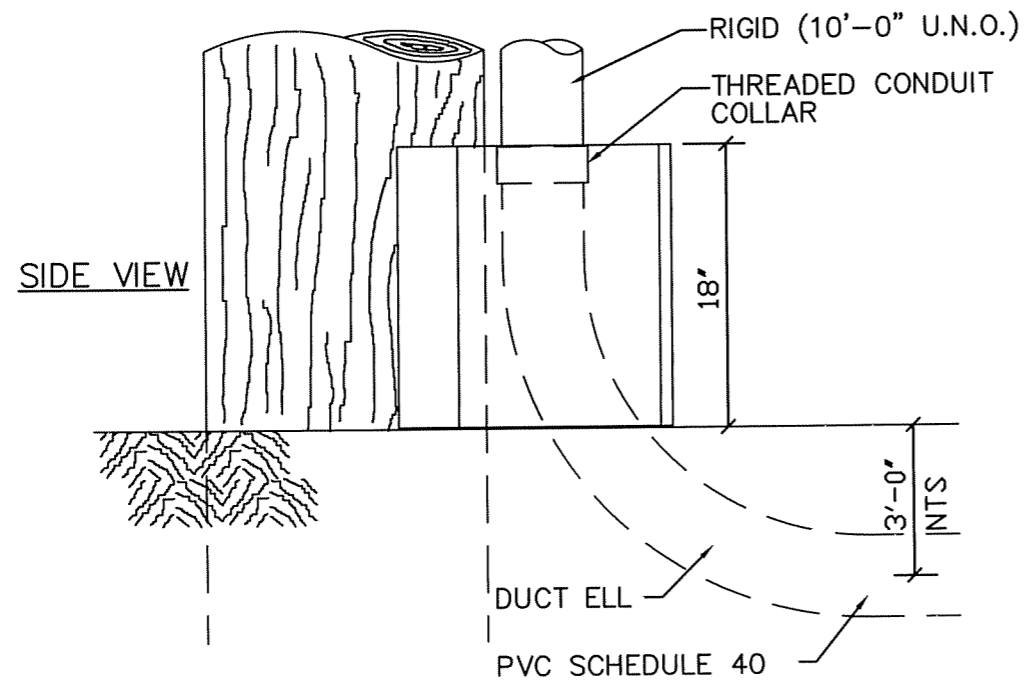
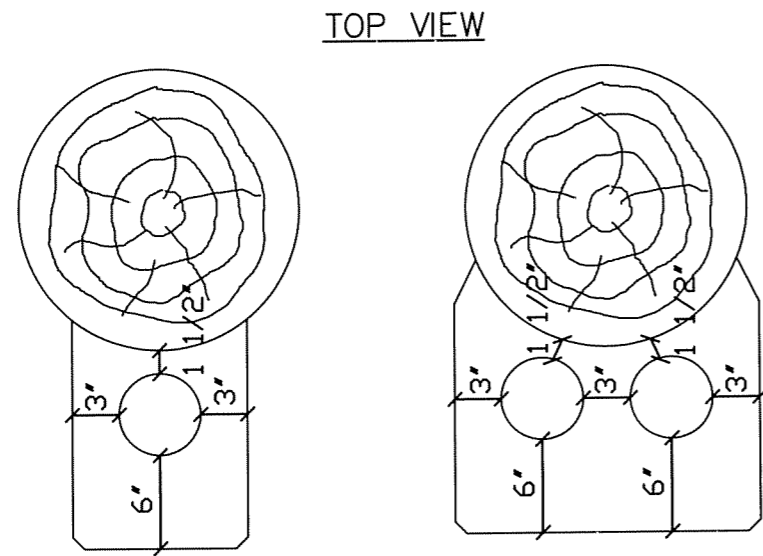
R.B. KNIFLEY
6400 MERCURY DRIVE, LOUISVILLE, KY. 40291
(601) 898-9427 F#(602)231-2658

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STANDARD CELLULAR SITE
KNIFLEY
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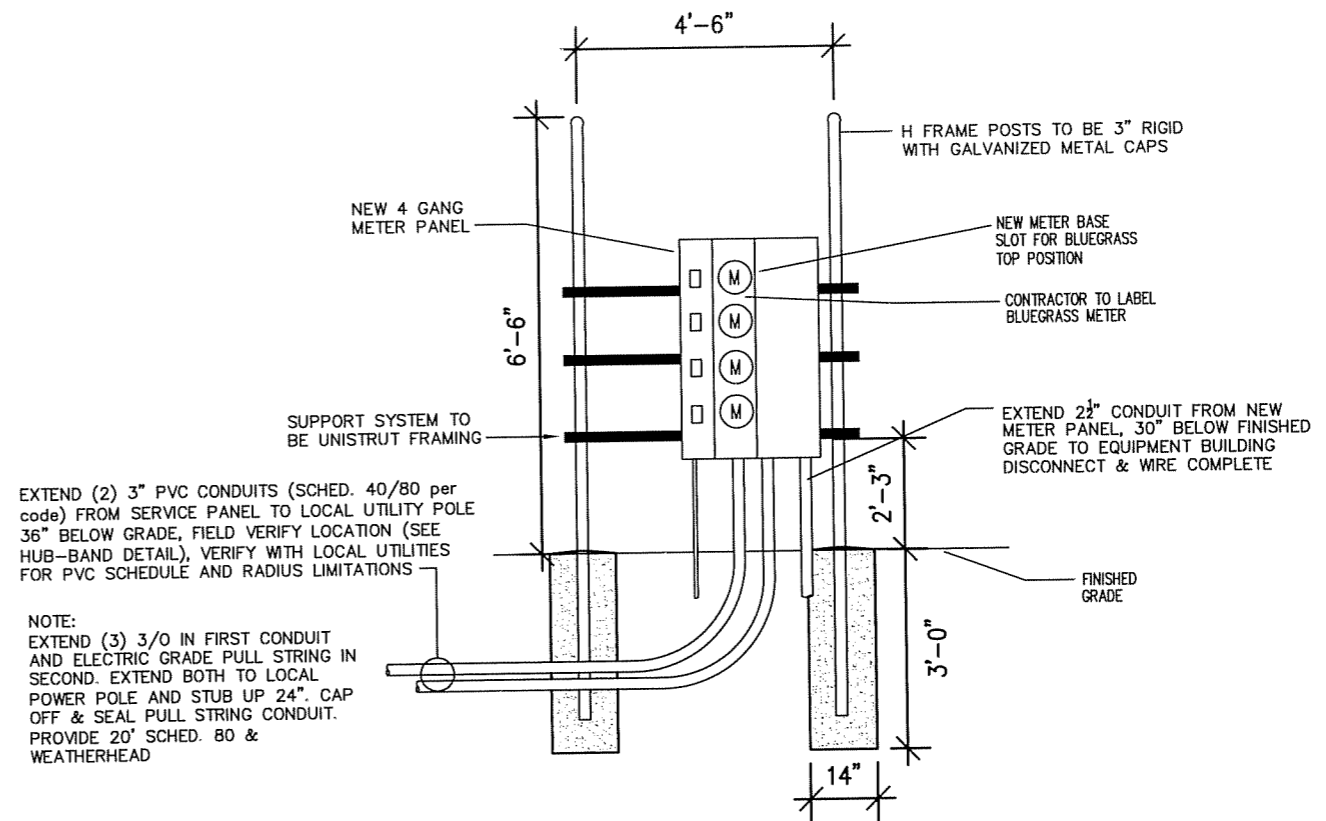
NO.	DATE	REVISION

DRAWN BY: R. BECKER
ISSUE DATE: 1-20-10
SCALE: LISTED

E-1



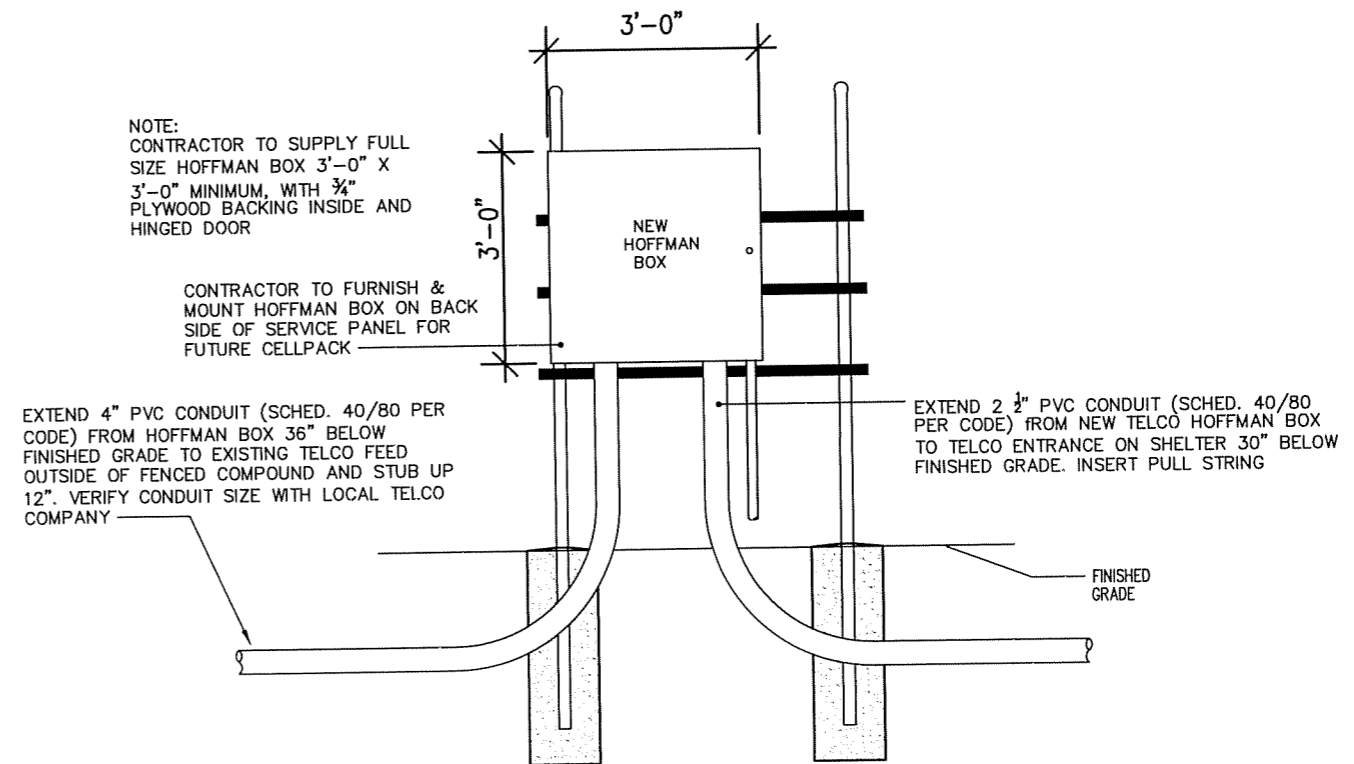
HUB-BAND DETAIL
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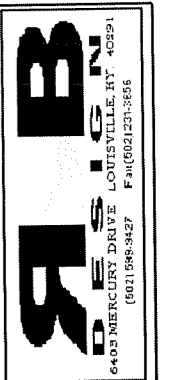
EXTEND (2) 3" PVC CONDUITS (SCHED. 40/80 per code) FROM SERVICE PANEL TO LOCAL UTILITY POLE 36" BELOW GRADE, FIELD VERIFY LOCATION (SEE HUB-BAND DETAIL), VERIFY WITH LOCAL UTILITIES FOR PVC SCHEDULE AND RADIUS LIMITATIONS

NOTE:
 EXTEND (3) 3/0 IN FIRST CONDUIT AND ELECTRIC GRADE PULL STRING IN SECOND. EXTEND BOTH TO LOCAL POWER POLE AND STUB UP 24". CAP OFF & SEAL PULL STRING CONDUIT. PROVIDE 20' SCHED. 80 & WEATHERHEAD

SERVICE BOARD DETAIL
 NO SCALE



BACKBOARD DETAIL
 NO SCALE



REVISION

NO.

DATE

BLUEGRASS CELLULAR, INC.
 STANDARD CELLULAR SITE

KNIFLEY

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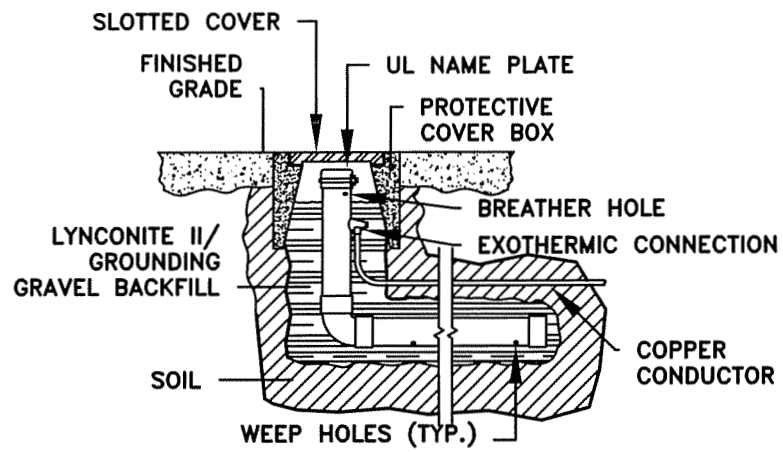
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 R. BECKER

ISSUE DATE:
 1-20-10

SCALE:
 LISTED

SHEET NUMBER

E-2

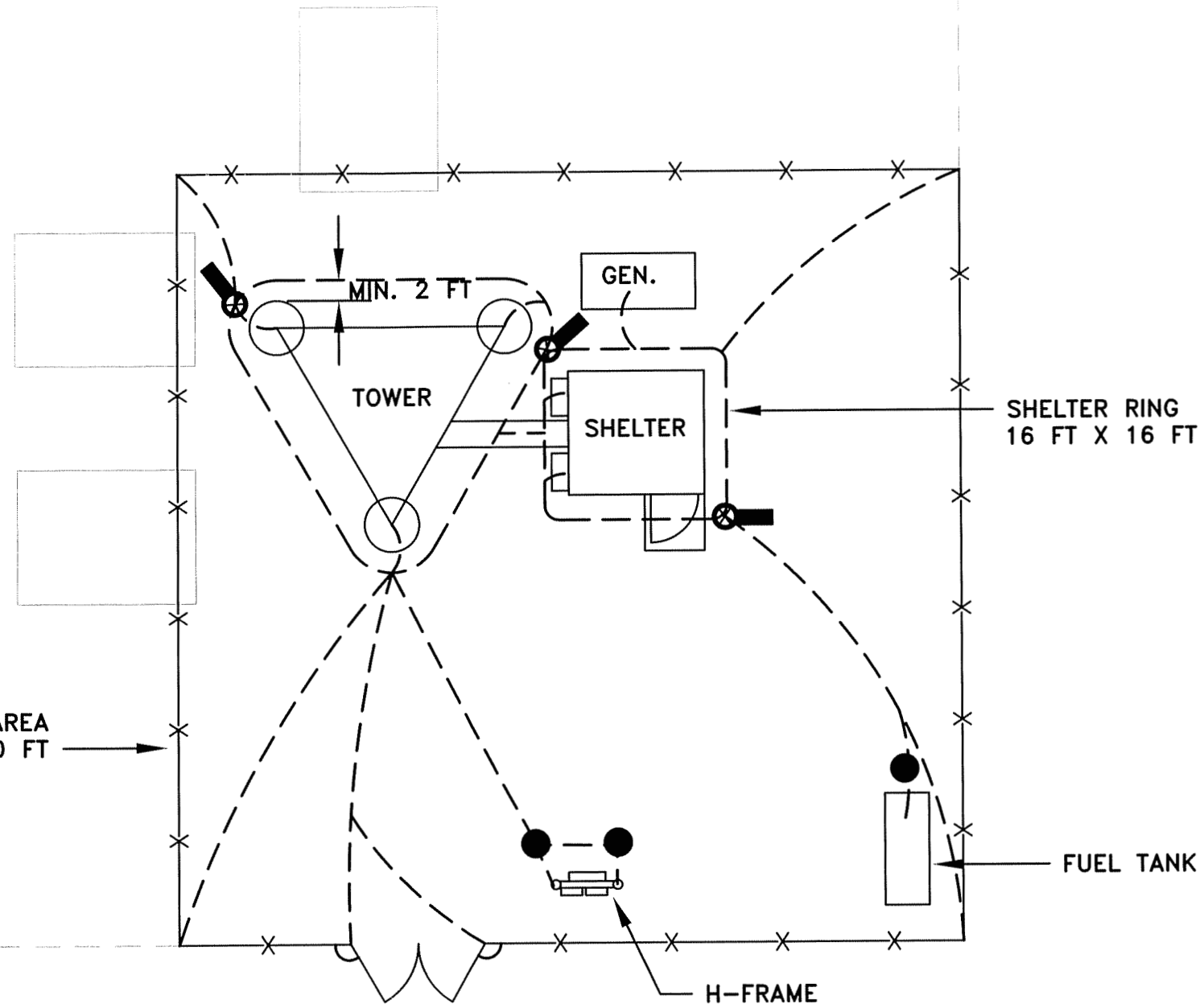


L-SHAPE MODEL
LYNCOLE XIT GROUNDING
(800) 962-2610

DETAIL

LEASE AREA
100 FT X 100 FT

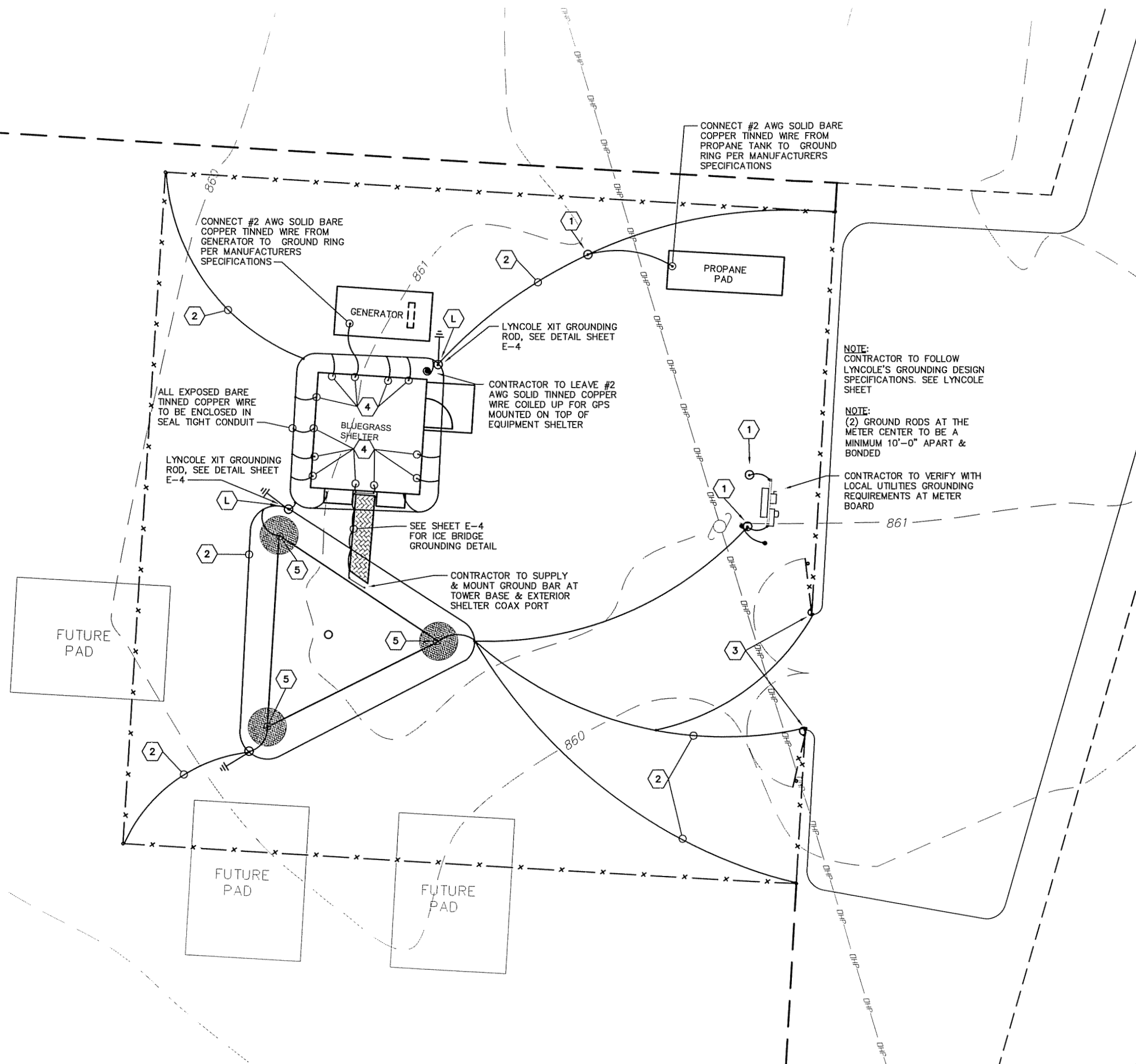
FENCE AREA
70 FT X 70 FT



NOTES:

- X — 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
- 3/4 IN. X 10 FT. COPPER CLAD DRIVEN ROD
- ⊗ K2L-10CS (SEE DETAIL)

		CLIENT / END USER	
		RSB DESIGN / BLUEGRASS CELLULAR	
DRAWING	PROJECT NAME		
1	KNIFELY		
TITLE			
GROUNDING OPTION			
LOCATION: CITY, STATE		CALCULATED RESISTANCE	
KNIFELY, KY		< 5 OHMS	
DRAWN BY	APPROVED BY	DATE	
RD		01/20/2010	
SOIL DATA PROVIDED BY		REFERENCE NUMBER	SCALE
TERRACON		N/A	NONE
		LTS NUMBER	
		100008	



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.

NOTE:
CONTRACTOR TO FOLLOW LYNCOLE'S GROUNDING DESIGN SPECIFICATIONS. SEE LYNCOLE SHEET

NOTE:
(2) GROUND RODS AT THE METER CENTER TO BE A MINIMUM 10'-0" APART & BONDED

NOTE:
CONTRACTOR TO VERIFY WITH LOCAL UTILITIES GROUNDING REQUIREMENTS AT METER BOARD

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"

B
R

6403 MERCURY DRIVE LOUISVILLE, KY 40291
 (602) 948-3427 FAX (602) 251-2656

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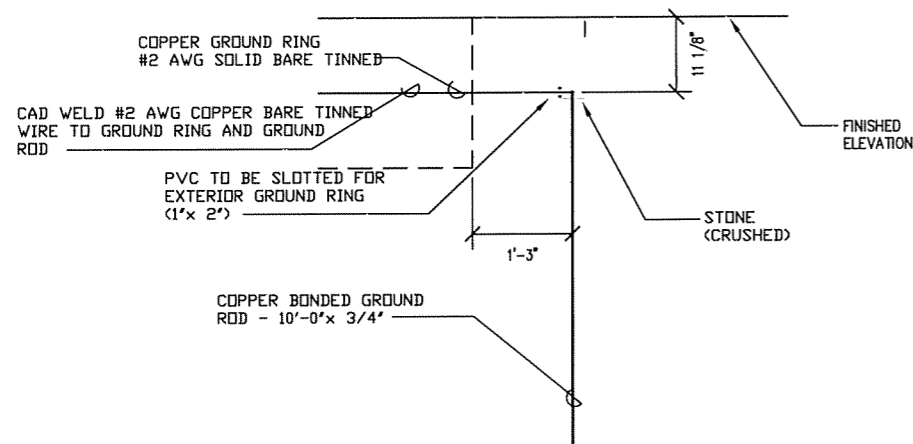
BLUEGRASS CELLULAR, INC.

STANDARD CELLULAR SITE

KNIFLEY

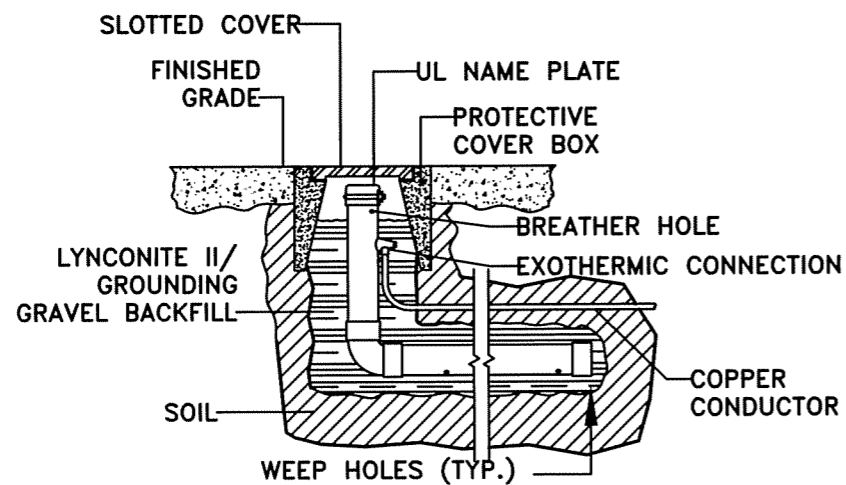
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SHEET NUMBER		
E-3		



GROUND ROD DETAIL

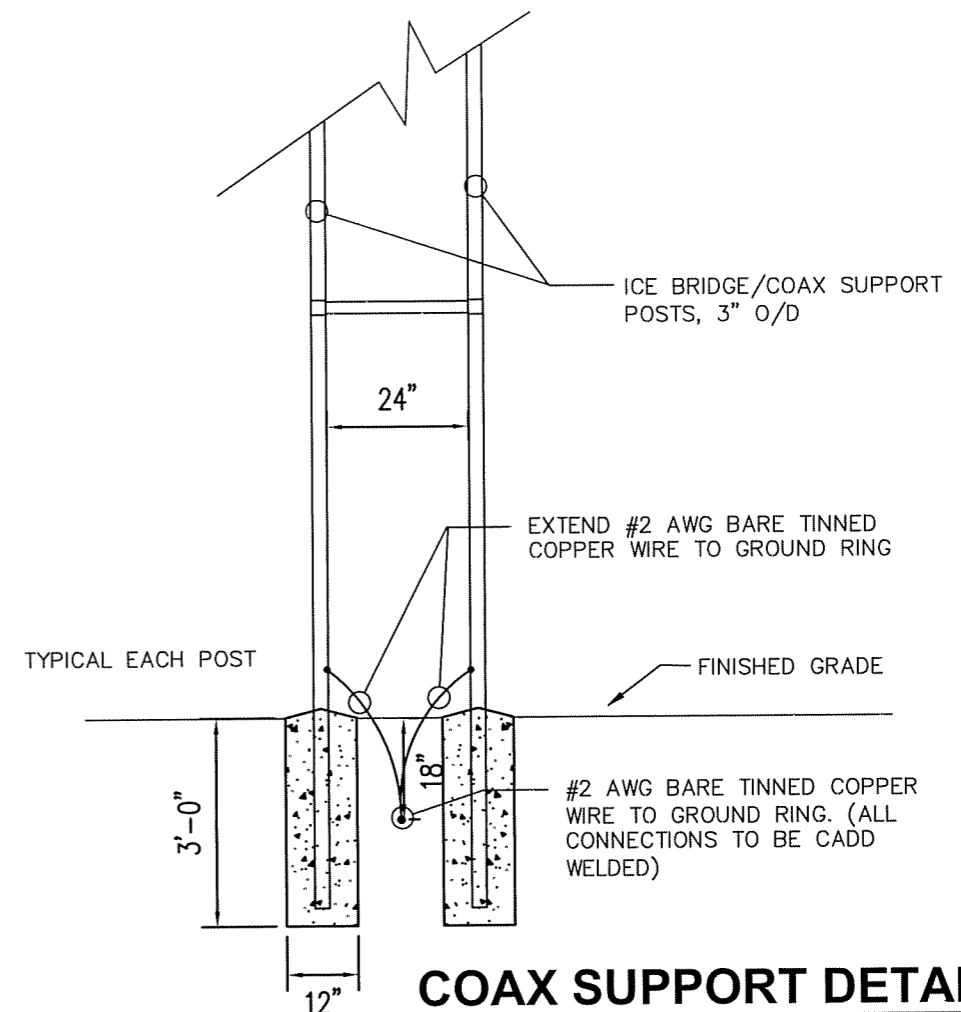
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L-SHAPE MODEL
LYNCOLE XIT GROUNDING
(800) 962-2610

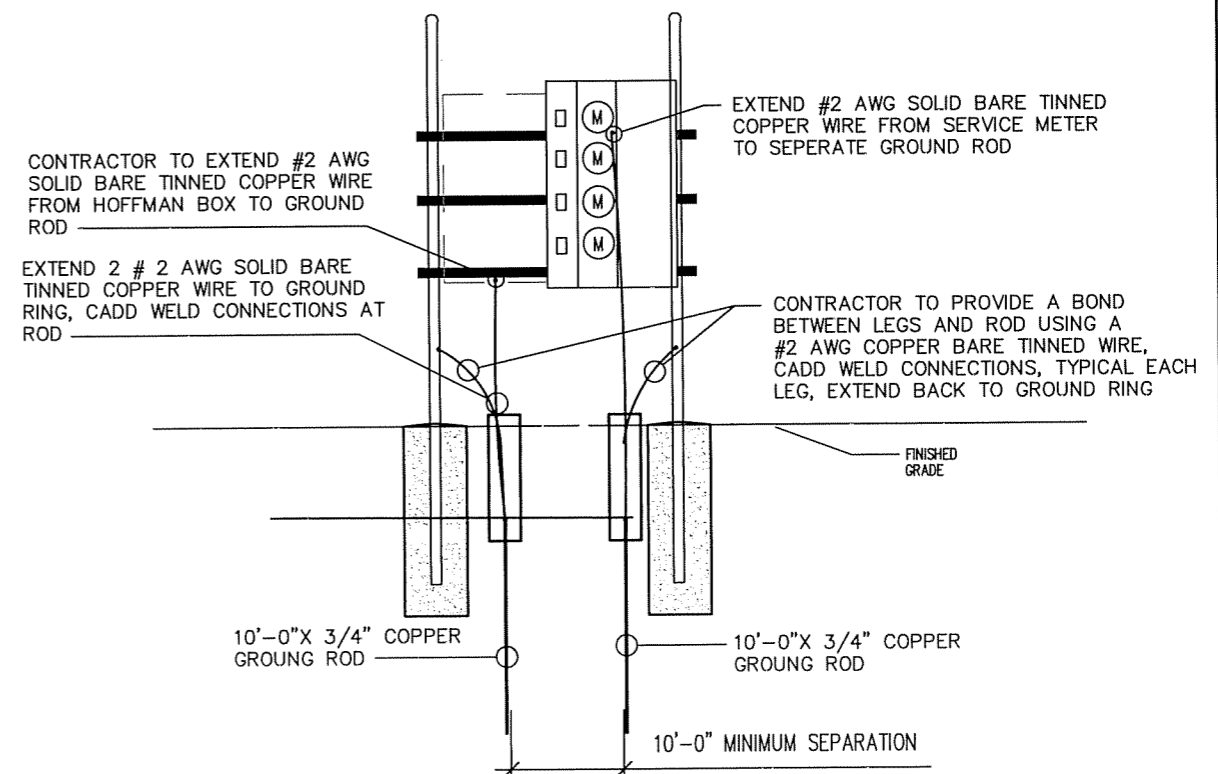
LYNCOLE XIT ROD DETAIL

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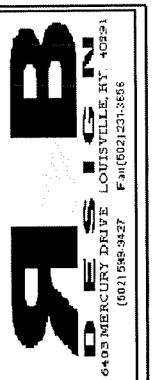
COAX SUPPORT DETAIL

NO SCALE



SERVICE BOARD DETAIL

NO SCALE

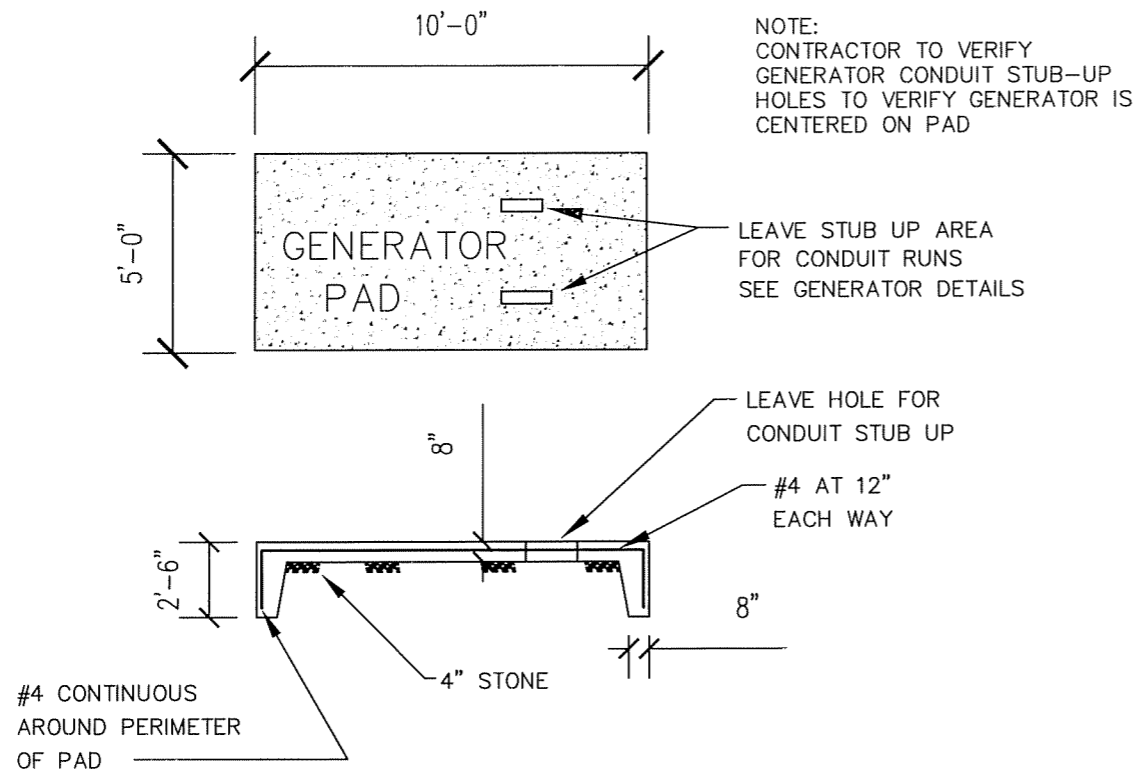


NO.	DATE	REVISION

BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
KNIFLEY
211 TUCKER WARREN RD., KNIFLEY, KY. 42763

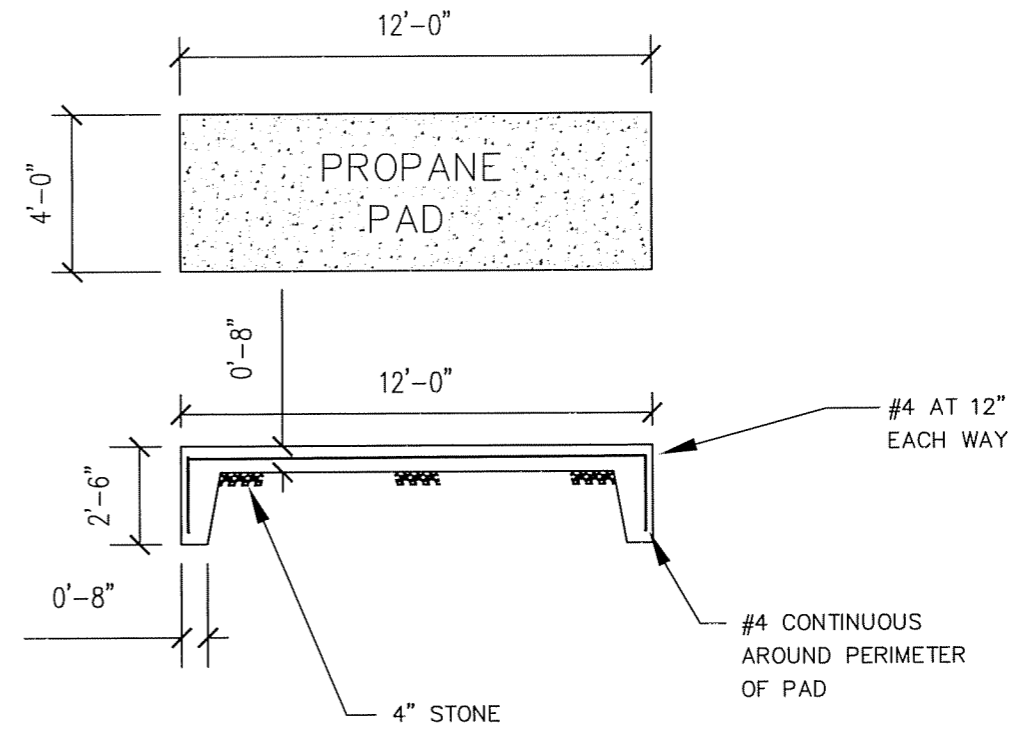
DRAWN BY: R. BECKER	ISSUE DATE: 1-20-10	SCALE: LISTED
SHEET NUMBER		

E-4



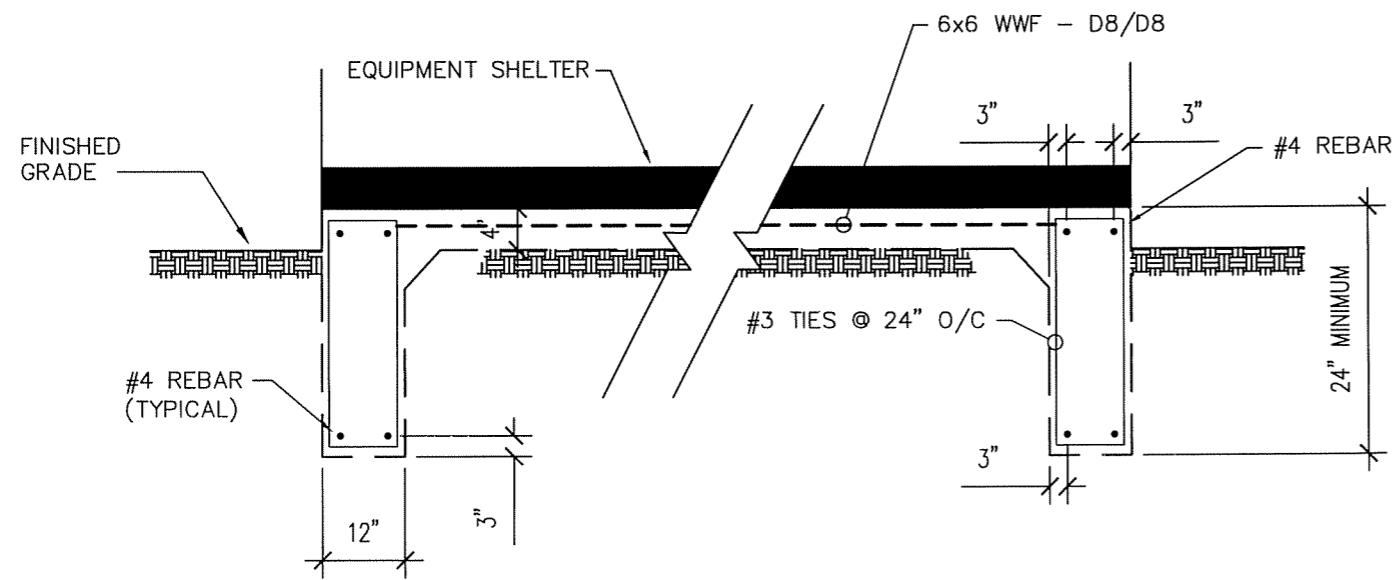
FOUNDATION DETAIL

NO SCALE



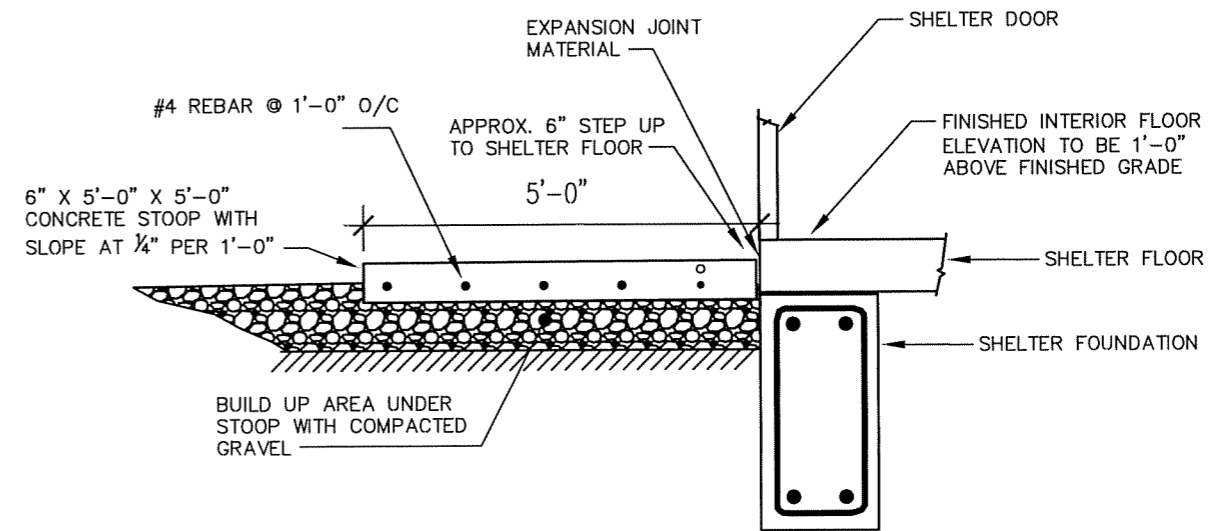
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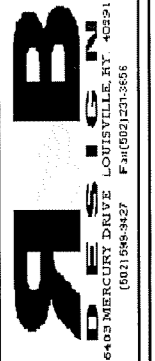
SHELTER FOUNDATION PLAN

NO SCALE



CONCRETE STOOP DETAIL

NO SCALE



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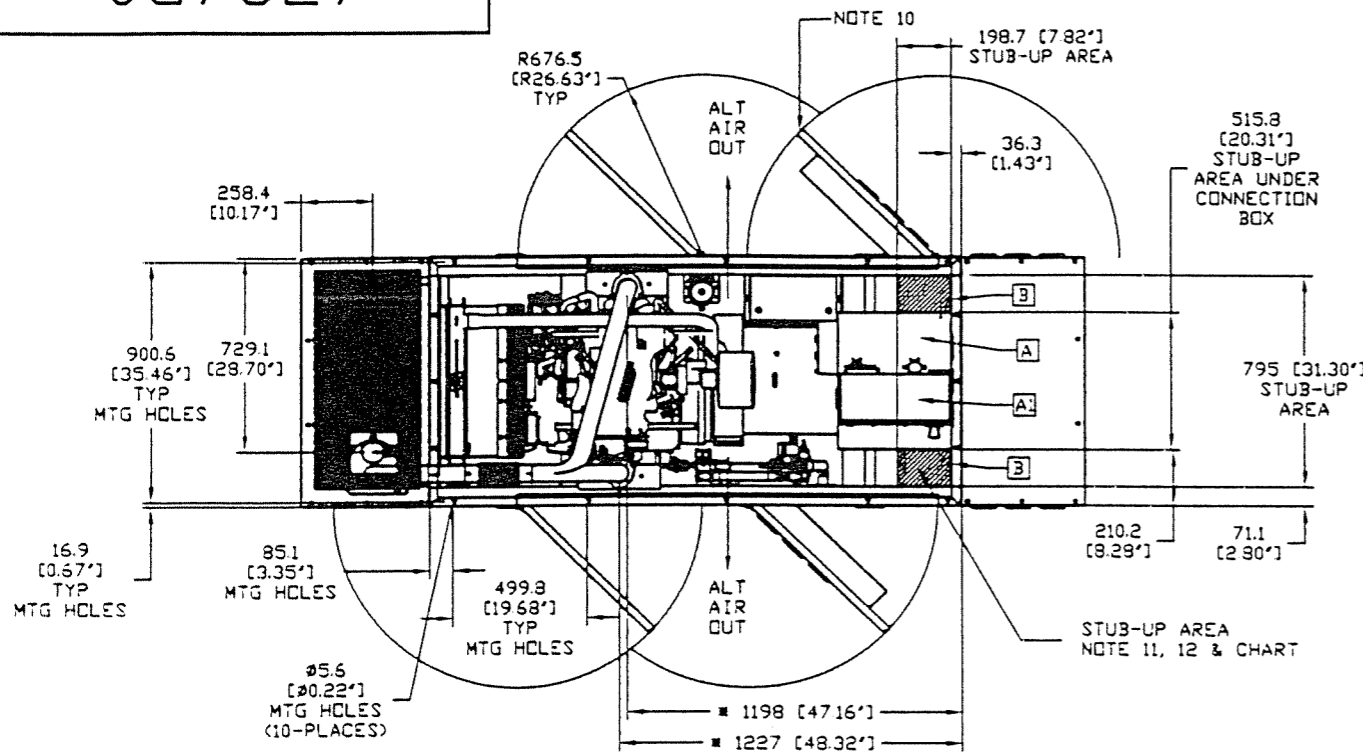
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S-1

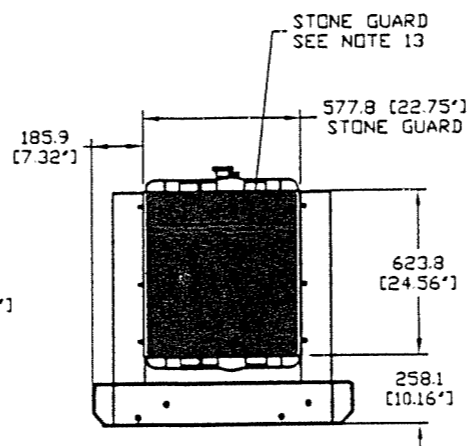
0G7627

ENGINE SERVICE CONNECTIONS

INLET L/P GAS = 3/4" NPT COUPLING
 INLET NATURAL GAS = 3/4" NPT COUPLING
 OIL DRAIN = 1/2" NPT COUPLING
 EXHAUST OUTLET - EXHAUST MANIFOLDS AS SHOWN
 ON OPEN SET, 3" OD MUFFLER
 OUTLET WITH ENCLOSURE



TOP OR PLAN VIEW



RADIATOR END VIEW WITH STONE GUARD OPTION

RECOMMENDED FUEL/ELECTRICAL STUB-UPS (SEE TOP VIEW)

DESCRIPTION	INSIDE BASE
AC LOAD LEAD CONDUIT (RIGHT) (LEFT)	A A'
ADDITIONAL STUB UP AREA FOR 120VAC GFCI OUTLET, (STANDARD BLOCK HEATER, BATTERY CHARGER, AND OTHER 120 VAC OPTIONS).	B

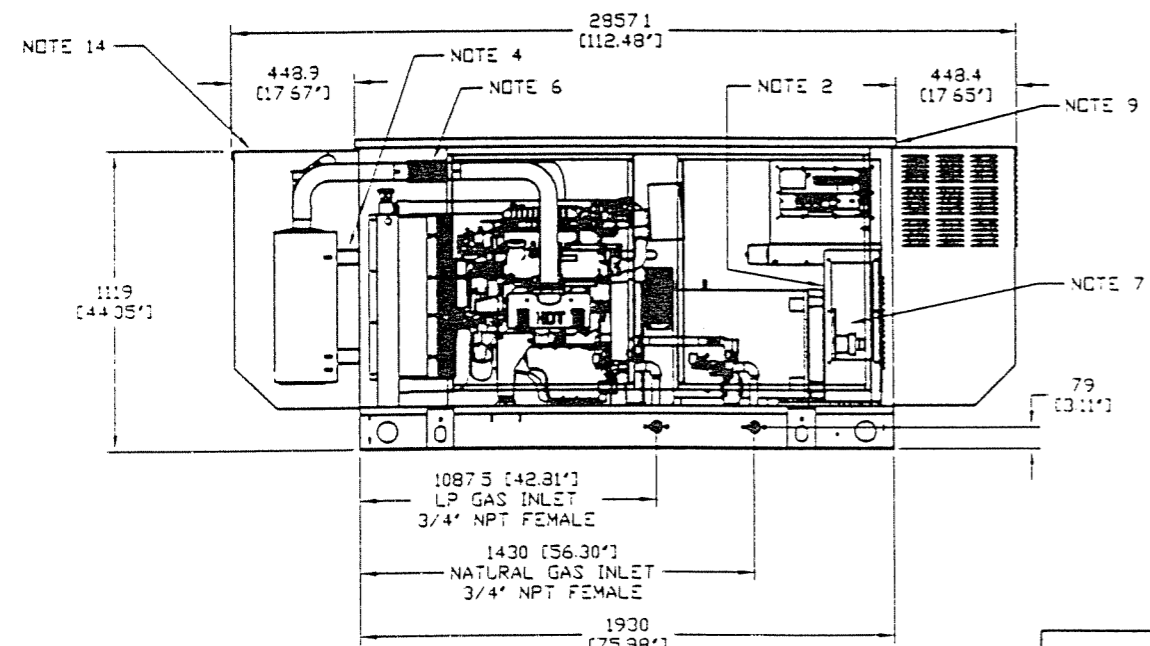
NOTE:
 FUEL SYSTEM SET UP WITH OUTSIDE STUB-UPS (SEE RIGHT SIDE VIEW).

WEIGHT DATA
 UNIT: ??? kg [??? lbs.]
 STEEL ENCLOSURE: ??? kg [??? lbs.]

UNITS: mm [INCHES]

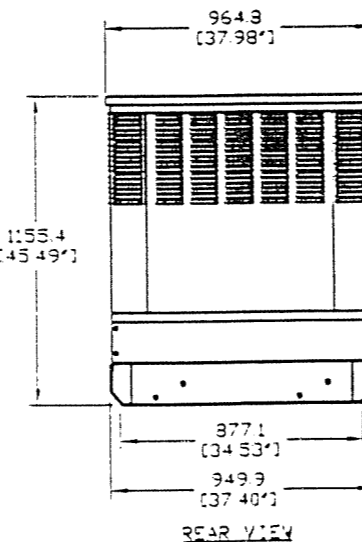
NOTES:

- CONTROL PANEL MAY BE ROTATED 180° IN EITHER DIRECTION.
 - STANDARD 20A GFCI DUPLEX OUTLET - 120VAC REQUIRED.
 - CONNECTION POINTS FOR CONTROL WIRES PROVIDED IN AC CONNECTION PANEL.
 - EXHAUST MUFFLER SUPPORT BRACKETS SUPPLIED WITH OPTIONAL ENCLOSURE.
 - 12 VOLT NEGATIVE GROUND SYSTEM.
 - 2.5" I. D. FLEX EXHAUST, STANDARD WITH ENCLOSURE UNITS, OPTIONAL WITHOUT.
 - MAIN LINE CIRCUIT BREAKER (MLCB) AND AC LOAD LEAD CONNECTION.
 - REMOVABLE BLANK PANEL FOR OPTIONAL 2nd MAIN LINE CIRCUIT BREAKER.
 - OPTIONAL ENCLOSURE.
 - DOORS MUST BE ABLE TO OPEN 90 DEG. TO BE REMOVED.
 - STUB-UPS:
 STANDARD BASE TANK REQUIRES ALL STUB-UPS TO BE OUTSIDE OR IN THE REAR TANK STUB-UP AREA.
 - A OR A' IS THE STUB UP AREA UNDER THE MLCB, DEPENDING ON CIRCUIT BREAKER LOCATION. AREA B IS STUB UP AVAILABLE FOR UNITS WITH A BASE TANK.
 - STONE GUARD AND AIR DUCT ADAPTER STANDARD WITH OPEN SET ONLY.
 - SEE DRAWING 0C3850 FOR DUCT REMOVAL. REMOVAL OF FRONT DUCT WILL PROVIDE ACCESS TO MUFFLER FOR SERVICING.
- *NOTE: DIMENSIONS TO THE CENTER OF EXHAUST FLANGE SHOULD BE USED AS A REFERENCE WHEN EXHAUST SYSTEM IS NOT ORDERED. APPLIES TO OPEN SET ONLY.

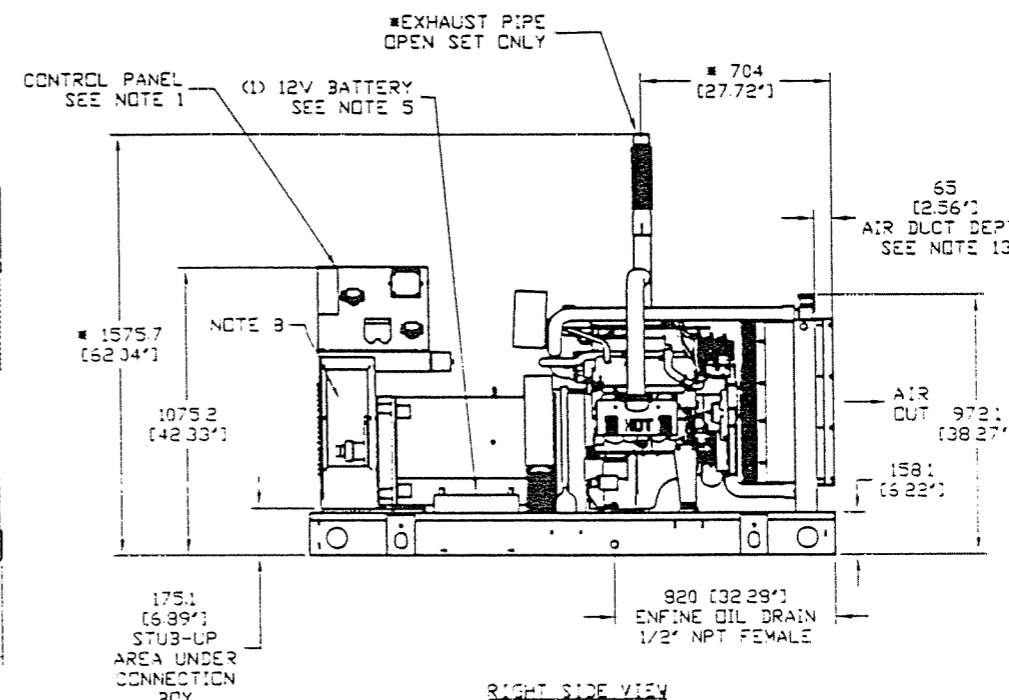


LEFT SIDE VIEW

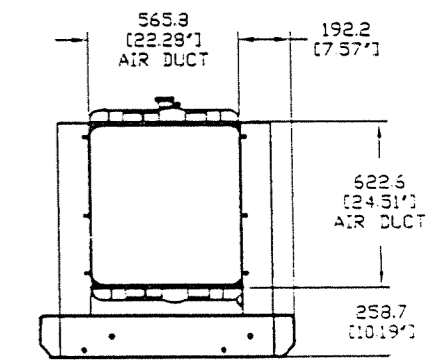
APPLICABLE TO 4.5L G3 35, 40 & 45KW



REAR VIEW



RIGHT SIDE VIEW



RADIATOR END VIEW WITH AIR DUCT ADAPTER OPTION

GENERAC POWER SYSTEMS OWNS THE COPYRIGHT OF THIS DRAWING WHICH IS SUPPLIED IN CONFIDENCE AND MUST NOT BE USED FOR ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED WITHOUT THE EXPRESS WRITTEN CONSENT OF GENERAC POWER SYSTEMS.
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SG 35, 40, 45 KW (UPSIZED 100 KW)

4.2L DIRECT DRIVE

ACOUSTIC ENCLOSURE

ISSUE DATE: 11/13/07

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

FILE NAME 0G7627-A.DWG SIZE F

SCALE NTS FIRST USE 4.2L G3

DWG NO. 0G7627 REV A

INSTALLATION DRAWING

GENERAL NOTES:


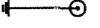






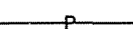
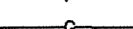


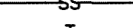
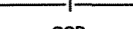
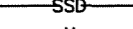
- 1) THE CONTRACTOR IS RESPONSIBLE FOR EQUIPMENT PICK UP DELIVERY TO SITE, ERECTION OF TOWER, AND CRANE SET, ALL COSTS INCURRED.
- 2) THE CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE PRIOR TO BIDDING AND REVIEWING EXISTING STRUCTURES OR UTILITIES THAT MIGHT BE LOCATED ON OR AROUND THE COMPOUND THAT 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 PHOTOCCELL 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:

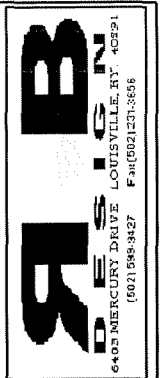
- 1) ANY DAMAGE TO EXISTING UTILITIES, STRUCTURES, ROADS AND PARKING AREAS TO BE REPAIRED OR REPLACED TO OWNERS SATISFACTION.
- 2) PREPARATION FOR FILL: REMOVAL OF ALL DEBRIS, WET AND UNSATISFACTORY SOIL MATERIALS, TOPSOIL, VEGETATION, AND HARMFUL MATERIALS FROM SURFACE OF GROUND PRIOR TO PLOWING, STRIPPING, 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)

SYMBOLS LEGEND

-  KEYNOTE
-  INSPEC. SLEEVE / GRND ROD
-  INSPECTION SLEEVE
-  CAD WELD CONNECTION
-  TRANSFORMER
-  LIGHTNING SUPPRESSOR
-  SWITCH (DISCONNECT)
-  METER PACK
-  POWER
-  GAS LINE
-  WATER LINE
-  SANITARY SEWER
-  TELEPHONE
-  STORM SEWER DRAIN
-  FENCE

"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.



REVISION				
NO.	DATE			

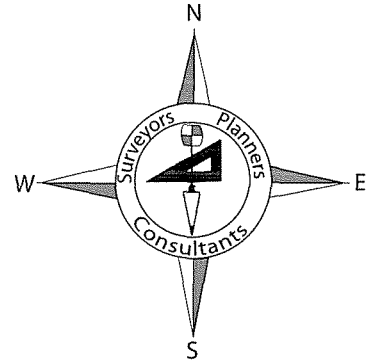
BLUEGRASS CELLULAR, INC.
STANDARD CELLULAR SITE
KNIFLEY
 211 TUCKER WARREN RD. KNIFLEY, KY. 42753

DRAWN BY: R. BECKER
 ISSUE DATE: 1-20-10
 SCALE: LISTED

SHEET NUMBER
General Notes

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 Adair County, Kentucky

Bluegrass Cellular, Inc. Knifley Site

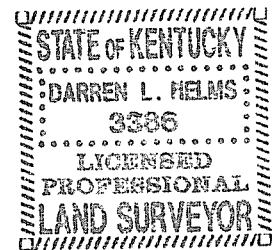
From the Adair County Courthouse in Columbia, Kentucky: travel north on Kentucky Highway 55 for 1.6 miles to Kentucky Highway 551; turn right onto Kentucky Highway 551 and travel northeast for 11.5 miles to Quinn Hollow Road, which is 0.5 miles from Kentucky Highway 76 at Knifley; turn left onto Quinn Hollow Road and travel north for 90 feet to Tucker Warren Road; turn left onto Tucker Warren Road and travel northwest for 0.2 miles to a stone drive; turn left onto the drive and travel southwest for 250 feet to the tower site near a mobile home and barn. The address of the site is 211 Tucker Warren Road, Knifley, Kentucky 42753.

Darren L. Helms

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

JAN. 6, 2010

Date



Site Name: Knifley

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 24 day of November, 2009, by and between John Martin and Dorcas Martin, husband and wife, whose mailing address is 11224 Knifley Rd., Knifley, KY 42753 (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 Adair County, **Kentucky** as more particularly described on Exhibit A attached hereto and incorporated herein by reference (the "Property"); and

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

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

Site Name: Knifley

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 May 23, 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.

Site Name: Knifley

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

Site Name: Knifley

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

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

Site Name: Knifley

14. For the purposes of giving notice as permitted or required herein, the address of the Optionor(s) shall be: **11224 Knifley Rd., Knifley, KY 42753**; 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 Adair 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

Site Name: Knifley

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.

Site Name: Knifley

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.

Site Name: Knifley

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]

Site Name: Knifley

EXECUTION OF AGREEMENT(S)

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

[Signature]
Date: 11-19-09
Dorcas Martin

Date: 11-19-09
("Optionor(s)")

By: John Martin and Dorcas Martin
Property Owner (s)

[Signature]

Date: 11/24/9
("Optionee")

By: Ron Smith
Authorized Representative

STATE OF Ky
COUNTY OF Taylor

The foregoing instrument was acknowledged before me this 19th day of November, 2009, by John Martin to be his/her free act and deed.

[Signature]
NOTARY PUBLIC STATE AT LARGE

My commission expires: 1-7-11

Site Name: Knifley

STATE OF Ky
COUNTY OF Taylor

The foregoing instrument was acknowledged before me this 19th day of November,
2009, by Thomas Marten to be his/her free act and deed

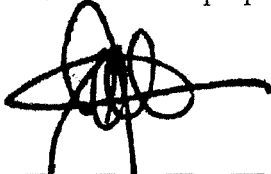
Teresa Benningfield
NOTARY PUBLIC STATE AT LARGE
My commission expires: 1-7-11

STATE OF KENTUCKY
COUNTY OF HARDIN

The foregoing instrument was acknowledged before me this 24 day of November,
2009, by **Ron Smith**, to be his free act and deed

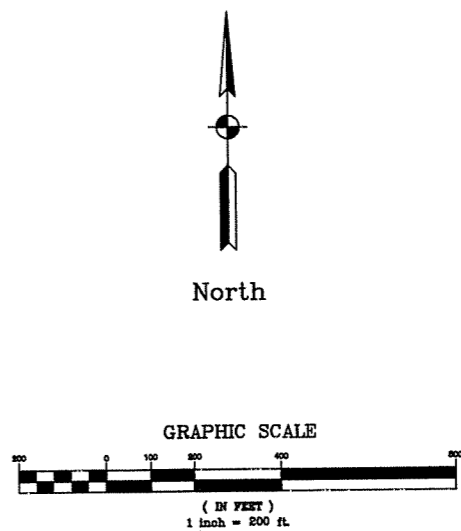
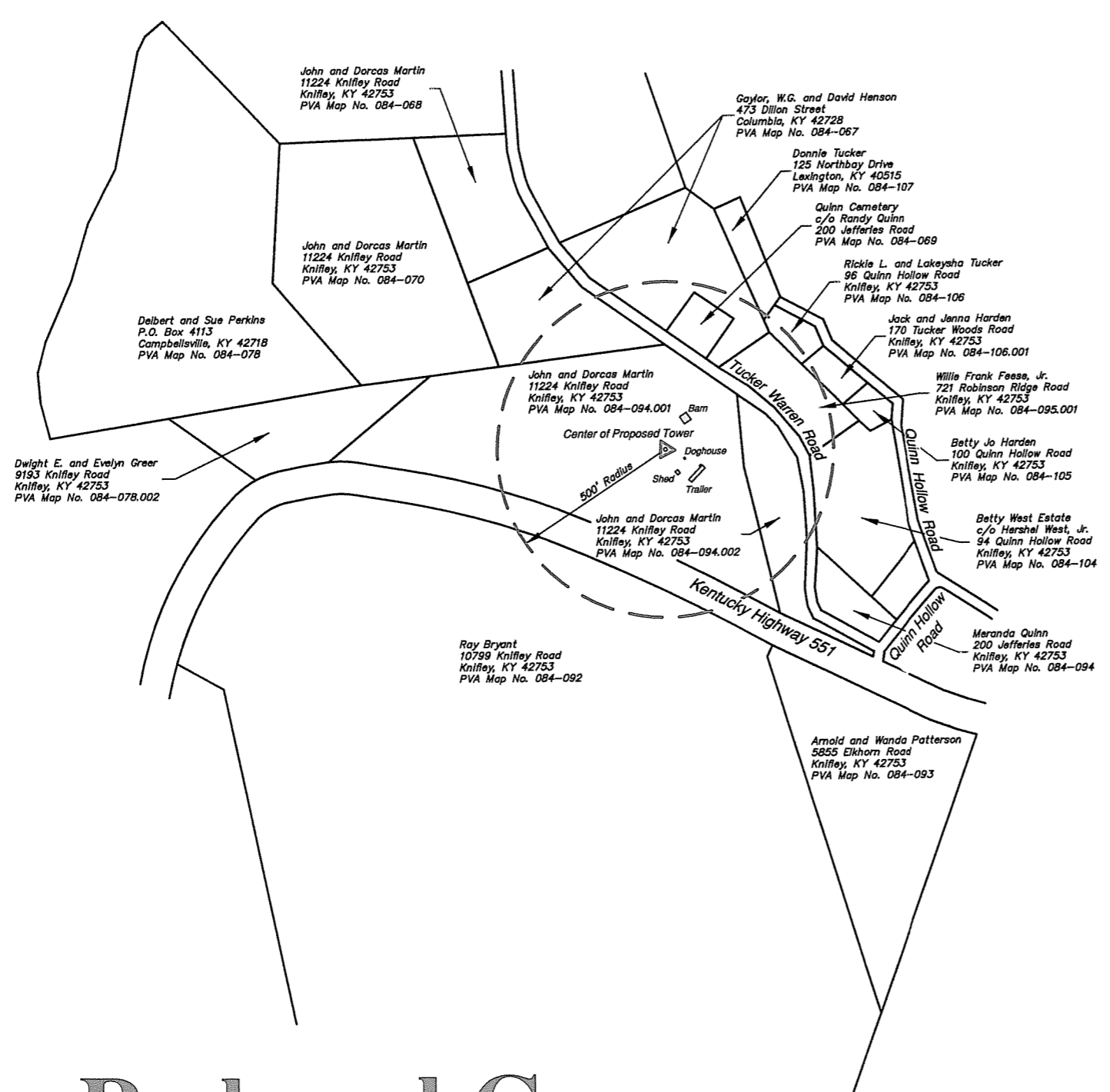
Julie L. Vici
NOTARY PUBLIC STATE AT LARGE
My commission expires: 1-21-13

This instrument prepared by:



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

Site: Knifley
500-Foot Radius Map for Structures and Landowners
Adair County, Kentucky



Note
 The location of the boundaries shown are approximate, and they are based upon aerial photographs and information on file in the offices of the Property Valuation Administrator and County Clerk of Adair 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 offices of the Property Valuation Administrator and County Clerk of Adair County, Kentucky on December 3, 2009.
Darren L. Helms
 Darren L. Helms, P.L.S. 3386
Jan. 6, 2010
 Date

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

Reduced Copy

Landmark Surveying Co., Inc.
 15 N.E. 3rd Street
 Washington, Indiana 47501
 (812) 257-0950
 Email: landmark@lmsurvey.com
 Project No. 09-12-0165
 © 2009

500-Foot Radius Map
 211 Tucker Warren Road
 Knifley, Kentucky 42753

Bluegrass Cellular
 2902 Ring Road
 Elizabethtown, Kentucky 42701

REVISIONS	DATE

DATE 10-06-09
 DRAWN BY A. Winkler
 CHECKED BY D.L. Helms

SHEET NO.
 1
 OF 1 SHEETS
 FILE NO.
 knifley-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 (KNIFLEY) IN RURAL
SERVICE AREA #5 (ADAIR) OF THE
COMMONWEALTH OF KENTUCKY**

CASE NO. 2010-00018

AFFIDAVIT OF JOHN E. SELENT

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

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

I am legal counsel to 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 individuals 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.

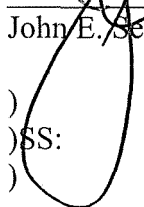
3. Attached as Exhibit 2 is a copy of the United States Certified Mail return receipt that demonstrates proof of service of the written notice of the proposed construction upon: (1) Delbert and Sue Perkins; (2) Dwight and Evelyn Greer; (3) Ray Bryant; (4) Arnold and Wanda Patterson; (5) Meranda Quinn; (6) Betty West Estate c/o Hershel West Jr.; (7) Willie Frank Feese, Jr.; (8) Jack and Jenna Harden; (9) John and Dorcas Martin; (10) Quinn Cemetery c/o

Randy Quinn; (11) Donnie Tucker; (12) Gaylord, W.G. and David Henson; and (13) Betty Jo Harden.

4. Affiant attempted to serve written notice of the proposed construction upon Rickie and Lakeysha Tucker (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 Rickie and Lakeysha Tucker was attempted via United States Certified Mail and was returned marked "Return to Sender - Unclaimed." (See attached Exhibit 3) Therefore, another copy of the written notice of proposed construction was sent to Rickie and Lakeysha Tucker via United States First Class Mail. (See Exhibit 1.)

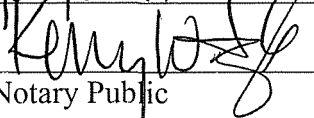
Further Affiant saith not.



John E. Selent
COMMONWEALTH OF KENTUCKY)
) SS:
COUNTY OF JEFFERSON)


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

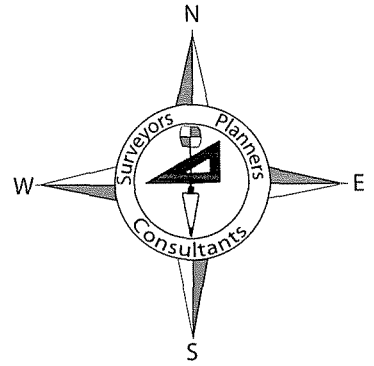
My commission expires: 11/29/2011



Notary Public

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.
Knifley Site
Adair County, Kentucky

Delbert and Sue Perkins
P.O. Box 4113
Campbellsville, KY 42718

Dwight E. and Evelyn Greer
9193 Knifley, Road
Knifley, KY 42753

Ray Bryant
10799 Knifley Road
Knifley, KY 42753

Arnold and Wanda Patterson
5855 Elkhorn Road
Knifley, KY 42753

Meranda Quinn
200 Jefferies Road
Knifley, KY 42753

Betty West Estate
c/o Hershel West, Jr.
94 Quinn Hollow Road
Knifley, KY 42753

Willie Frank Feese, Jr.
721 Robinson Ridge Road
Knifley, KY 42753

Jack and Jenna Harden
170 Tucker Woods Road
Knifley, KY 42753

Rickie L. and Lakeysa Tucker
96 Quinn Hollow Road
Knifley, KY 42753

Quinn Cemetery
c/o Randy Quinn
200 Jefferies Road
Knifley, KY 42753

Donnie Tucker
125 Northbay Drive
Lexington, KY 40515

Gaylord, W.G. and David Henson
473 Dillon Street
Columbia, KY 42728

John and Dorcas Martin
11224 Knifley Road
Knifley, KY 42753

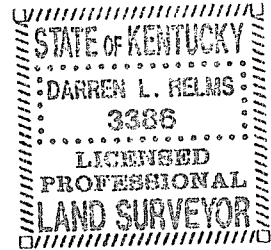
Betty Jo Harden
100 Quinn Hollow Road
Knifley, KY 42753

Darren L. Helms

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

JAN. 6, 2010

Date



January 22, 2010

Delbert and Sue Perkins
P.O. Box 4113
Campbellsville, Kentucky 42718

Public Notice

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

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

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

Please refer to case number 2010-00018 in our correspondence.

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.Print your name and address on the reverse so that we can return the card to you.Attach this card to the back of the mailpiece, or on the front if space permits.	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <input type="checkbox"/> Agent Delbert Perkins <input type="checkbox"/> Addressee</p> <p>C. Date of Delivery 4/25/10</p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
1. Article Addressed to: Delbert & Sue Perkins P.O. Box 4113 Campbellsville, KY 42718	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
2. Article Number (Transfer from service label)	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes

January 22, 2010

Dwight E. and Evelyn Greer
9193 Knifley Road
Knifley, Kentucky 42753

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1. Article Addressed to: <i>Dwight & Evelyn Greer 9193 Knifley Rd. Knifley, KY 42753</i>	B. Received by (<i>Printed Name</i>) <i>Dwight E. Greer</i>	C. Date of Delivery <i>1-23-10</i>
2. Article Number (<i>Transfer from service label</i>)	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
	4. Restricted Delivery? (<i>Extra Fee</i>) <input type="checkbox"/> Yes	
	7009 2820 0003 2671 3691	

January 22, 2010

Ray Bryant
10799 Knifley Road
Knifley, Kentucky 42753

Public Notice

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	B. Received by (Printed Name) <u>Glenna Corbin</u> C. Date of Delivery <u>1-23-10</u>
1. Article Addressed to: <u>Ray Bryant</u> <u>10799 Knifley Rd.</u> <u>Knifley, KY 42753</u>	D. Is delivery address different from Item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
2. Article Number (Transfer from service label)	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
	7009 2820 0003 2671 3707

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

January 22, 2010

Arnold and Wanda Patterson
5855 Elkhorn Road
Knifley, Kentucky 42753

Public Notice

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<p>1. Article Addressed to:</p> <p><i>Arnold & Wanda Patterson 5855 Elkhorn Rd. Knifley, KY 42753</i></p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input checked="" type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p><i>7009 2820 0003 2671 3684</i></p>

January 22, 2010

Meranda Quinn
200 Jeffries Road
Knifley, Kentucky 42753

Public Notice

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1. Article Addressed to: <i>Meranda Quinn 200 Jeffries Rd. Knifley, KY 42753</i>	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
2. Article Number (Transfer from service label)	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes 7009 2820 0003 2671 3677

January 22, 2010

Betty West Estate
c/o Hershel West, Jr.
94 Quinn Hollow Road
Knifley, Kentucky 42753

Public Notice

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<ul style="list-style-type: none">■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.■ Print your name and address on the reverse so that we can return the card to you.■ Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature x <i>Hershel West Jr.</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee	
1. Article Addressed to: <i>Betty West Estate c/o Hershel West, Jr. 94 Quinn Hollow Rd. Knifley, KY 42753</i>	B. Received by (Printed Name) <i>Hershel West Jr.</i>	C. Date of Delivery <i>1-23-10</i>
2. Article Number (Transfer from service label)	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
	3. Service Type <input type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes	
	7009 2820 0003 2671 3660	

January 22, 2010

Willie Frank Feese, Jr.
721 Robinson Ridge Road
Knifley, Kentucky 42753

Public Notice

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1. Article Addressed to: Willie Frank Feese, Jr. 721 Robinson Ridge Rd. Knifley, KY 42753	B. Received by (Printed Name) Willie F. Feese	C. Date of Delivery 1-23-10
2. Article Number (Transfer from service label)	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	
PS Form 3811, February 2004	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.	
4. Restricted Delivery? (Extra Fee)	<input type="checkbox"/> Yes	
	7009 2820 0003 2671 3653	

January 22, 2010

Jack and Jenna Harden
170 Tucker Woods Road
Knifley, Kentucky 42753

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

Please refer to case number 2010-00018 in our correspondence.

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.■ Print your name and address on the reverse so that we can return the card to you.■ Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature <input checked="" type="checkbox"/> Individual <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee
1. Article Addressed to: <i>Jack & Jenna Harden 170 Tucker Woods Rd. Knifley, KY 42753</i>	B. Received by (Printed Name) <i>JACK HARDEN</i> C. Date of Delivery <i>01-23-10</i>
2. Article Number (Transfer from service label)	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No
PS Form 3811, February 2004	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input checked="" type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
	7009 2820 0003 2671 3646

January 22, 2010

Quinn Cemetery
c/o Randy Quinn
200 Jefferies Road
Knifley, Kentucky 42753

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 a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower and equipment shelter to be located at 211 Tucker Warren Road, Knifley, Kentucky, 42753. 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 2010-00018 in our 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.mvblueworks.com)

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"> ■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits. 	<p>A. Signature <input checked="" type="checkbox"/> <i>Randy Quinn</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) C. Date of Delivery <i>Randy Quinn</i> <i>01-22-10</i></p> <p>D. Is delivery address different from Item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p><i>Quinn Cemetery c/o Randy Quinn 200 Jefferies Rd. Knifley, KY 42753</i></p>	<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p><i>7009 2820 0003 2671 3639</i></p>

January 22, 2010

Donnie Tucker
125 Northbar Drive
Lexington, Kentucky 40515

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 a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower and equipment shelter to be located at 211 Tucker Warren Road, Knifley, Kentucky, 42753. 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 2010-00018 in our correspondence.

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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
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1. Article Addressed to: Donnie Tucker 125 Northbar Drive Lexington, KY 40515	B. Received by (Printed Name) Donnie Tucker C. Date of Delivery
2. Article Number (Transfer from service label)	D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input checked="" type="checkbox"/> No
PS Form 3811, February 2004	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D. 4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes
Domestic Return Receipt	7009 2820 0003 2671 3622 102595-02-M-1540

January 22, 2010

Gaylord, W.G. and David Henson
473 Dillon Street
Columbia, Kentucky 42728

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 a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower and equipment shelter to be located at 211 Tucker Warren Road, Knifley, Kentucky, 42753. 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 2010-00018 in our correspondence.

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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.■ Print your name and address on the reverse so that we can return the card to you.■ Attach this card to the back of the mailpiece, or on the front if space permits.	<p>A. Signature <i>X [Signature]</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>Zachary Gaylord</i></p> <p>C. Date of Delivery <i>Jan 26 2010</i></p> <p>D. Is delivery address different from item 1? If YES, enter delivery address below <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p>
<p>1. Article Addressed to: <i>Gaylord, W.G. and David Henson 473 Dillon Street Columbia, Kentucky 42728</i></p>	<p>3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
<p>2. Article Number (Transfer from service label)</p>	<p><i>7009 2820 0003 2671 3608</i></p>

January 22, 2010

John and Dorcas Martin
11224 Knifley Road
Knifley, Kentucky 42753

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 2010-00018 in our correspondence.

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

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.■ Print your name and address on the reverse so that we can return the card to you.■ Attach this card to the back of the mailpiece, or on the front if space permits.	<p>A. Signature <input checked="" type="checkbox"/> X <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <input type="checkbox"/> Agent JOHN MARTIN <input type="checkbox"/> Addressee</p> <p>C. Date of Delivery 1-23-10</p>
1. Article Addressed to: John & Dorcas Martin 11224 Knifley Rd. Knifley, KY 42753	D. Is delivery address different from item 1? <input type="checkbox"/> Yes if YES, enter delivery address below: <input type="checkbox"/> No
2. Article Number (Transfer from service label)	3. Service Type <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.
PS Form 3811, February 2004	4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes 7009 2820 0003 2671 3592 Domestic Return Receipt 102595-02-M-1540

January 22, 2010

Betty Jo Harden
100 Quinn Hollow Road
Knifley, Kentucky 42753

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

Please refer to case number 2010-00018 in our correspondence.

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SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none">■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.■ Print your name and address on the reverse so that we can return the card to you.■ Attach this card to the back of the mailpiece, or on the front if space permits.	<p>A. Signature <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee <i>Betty Jo Harden</i></p> <p>B. Received by (Printed Name) <i>Ricky Nardin</i></p> <p>C. Date of Delivery <i>1-23-10</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No</p>
<p>1. Article Addressed to:</p> <p><i>Betty Jo Harden 100 Quinn Hollow Rd. Knifley, KY 42753</i></p>	<p>3. Service Type</p> <p><input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p>
<p>2. Article Number (Transfer from service label)</p>	<p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p> <p><i>7009 0080 0000 4033 2396</i></p>

January 22, 2010

Rickie L. and Lakeysha Tucker
96 Quinn Hollow Road
Knifley, Kentucky 42753

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 a new cell facility to provide cellular telephone service. This facility will include a 240 foot tower and equipment shelter to be located at 211 Tucker Warren Road, Knifley, Kentucky, 42753. 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.**

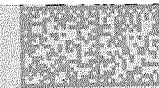
Please refer to case number 2010-00018 in our correspondence.

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)

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



7009 2820 0003 2671 3615



02 1A \$ 06.15⁰
0004608059 JAN 22 2010
MAILED FROM ZIP CODE 40202

- Not Deliverable As Addressed
- Unable To Forward
- Insufficient Address
- Moved, Left No Address
- Unclaimed Refused
- Attempted-Not Known
- No Such Street Number
- Vacant Illegible
- No Mail Receptacle
- Box Closed-No Order
- Returned For Better Address
- Postage Due



1ST NOTICE _____
2ND NOTICE 1-28
RETURN 2-7

1-23-10

- Not Deliverable As Addressed
- Unable To Forward
- Insufficient Address
- Moved, Left No Address
- Unclaimed Refused
- Attempted-Not Known
- No Such Street Number
- Vacant Illegible
- No Mail Receptacle
- Box Closed-No Order
- Returned For Better Address
- Postage Due



Rickie L. and Lakeysa Tucker
96 Quinn Hollow Road
Knifley, Kentucky 42753

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:

Rickiel. and LaKeysha
 Tucker
 96 Quinn Hollow Rd.
 Knifley, KY 42753

2. Article Number

(Transfer from service label)

7009 2820 0003 2671 3615

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X

 Agent AddresseeB. Received by (*Printed Name*)

C. Date of Delivery

D. Is delivery address different from item 1? YesIf 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



Dinsmore & Shohl
ATTORNEYS LLP

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

January 21, 2010

Via Certified Mail

Honorable Ann Melton
Adair County Judge Executive
424 Public Square, Suite 1
Columbia, KY 42728

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 211 Tucker Warren Road, Knifley, Kentucky, 42753, before the Public Service Commission of the Commonwealth of Kentucky, Case No. 2010-00018***

Dear Judge Melton,

We are legal counsel to Cumberland Cellular Partnership ("Cumberland Cellular") which markets its services as Bluegrass Cellular.

Cumberland Cellular is applying to the Public Service Commission of the Commonwealth of Kentucky (the Commission) for a Certificate of Public Convenience and Necessity to propose construction and operation for a new facility to provide cellular telecommunications service in rural service area (RSA) #5 in Adair County. The facility would include a 240 foot tower to be located at 211 Tucker Warren Road, Knifley, Kentucky, 42753. 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 of the Commonwealth of Kentucky, P.O. Box 615, Frankfort, Kentucky 40602. Please refer to case number 2010-00018 in your correspondence.

Very truly yours,

DINSMORE & SHOHL LLP

Kerry W. Ingle, Paralegal

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. Ann Melton
Adair County Judge Executive
424 public square, suite 1
Columbia, KY 42728

2. Article Number
(Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X *Fally Nall* 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

7009 0080 0000 4033 2389

PUBLIC NOTICE

**Cumberland Cellular Partnership
proposes to
construct a cellular
communications**

TOWER

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

**Cumberland Cellular
Partnership
P. O. Box 5002
2902 Ring Road
Elizabethtown, NY 42701**

**Executive Director,
The Public Service Commission
211 Sower Boulevard
P. O. Box 815
Frankfort, KY 40602**

Please refer to P.S.C.

Case #2010-00018

in your correspondence.



PUBLIC NOTICE
NOTICE OF THE
TOWN OF
[Illegible text]
[Illegible text]
[Illegible text]

PUBLIC NOTICE
A public hearing will be held on the following date and time at the location specified below.
TOWN OF
The date of the hearing will be held on the following date and time at the location specified below.
Please refer to P.D.C.
Case #2010-00000
If you have any questions, please contact the following person.

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 402

7807 Sea Road

Charleston, WV 25310

Executive Director

One Public Service Commission

250 Lower Boulevard

P.O. Box 400

Franklin, TN 37060

Please refer to P.S.C.

Case #2010-00018

in your correspondence

PUBLIC NOTICE

Cumberland Cellular Partnership
proposes to
construct a cellular
communications

TOWER

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

Cumberland Cellular
Partnership
P.O. Box 5317
2007 King Road
Glendaletown, NY 12101

Executive Director
The Public Service Commission
711 Seneca Boulevard
P.O. Box 825
Frankfort, NY 13060

Please refer to P.S.C.
Case #2010-00818
in your correspondence.



PUBLIC NOTICE

Cumberland Cellular Partnership
proposes to
construct a cellular
communications

TOWER

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

Cumberland Cellular
Partnership
P. O. Box 6002
2007 Ring Road
Elizabethtown, KY 40311

or
Executive Director,
The Public Service Commission
271 Tower Boulevard
P. O. Box 615
Frankfort, KY 40602

Please refer to P.S.C.
Case #2010-00018
in your correspondence.

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 (Knifley Cell Site). The facility is a 240 foot tower and an equipment shelter to be located at 211 Tucker Warren Road, Knifley, Kentucky 42753. 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. 2010-00018 in your correspondence.

(E) LIVESTOCK FOR SALE

12 TOP QUALITY BLACK-BRED helpers-1200 lbs. Calving 3-11-10-Preg. Checked, calf hood vaccinated; bred to low birth weight bulls. More available. Call 502-827-2497.

than 3,000 miles. Call 270-384-6471 days or 270-384-9737 nights.

STEEL BLDGS W/ EXCESSIVE quality. 09 recession inventory blowout. Up to 50% off, partially manufactured. Can construct. IAS-AC 472 Mfg. Cert. www.utilityking.com Source#1F8. 866-609-4321.

(T) MOBILE HOMES FOR RENT

MOBILE HOME FOR RENT: 2 BEDROOM/2 bath. All electric. Appliances furnished. Pay weekly or monthly. No pet-references required. 384-4034 or 384-6600.

All real estate advertised herein is subject to the Federal Fair Housing Act, which makes it illegal to advertise any preference, limitation or discrimination based on race, color, religion, sex, handicap, familial status or national origin, or intention to make any such preferences, limitations or discrimination. State laws forbid discrimination in the sale, rental or advertising of real estate based on factors in addition to those protected under federal law. We will not knowingly accept any advertising for real estate which is in violation of the law. All persons are hereby informed that all dwellings advertised are available on an equal opportunity basis.



Get the NEWS

twice a week! Subscribe today to THE ADAIR PROGRESS

384-6471

CoreTrans, LLC is seeking dependable, hard working drivers for otr driving positions.

Home on the weekends, paid weekly, safety and fuel bonus, and full benefits.

Requirements: CDL Class A, 2 years otr experience, and good MVR. If interested, call

Ashlee at **800-422-4799 ext. 248**

or **apply online at: www.coretrans.com.**



A D A N T A

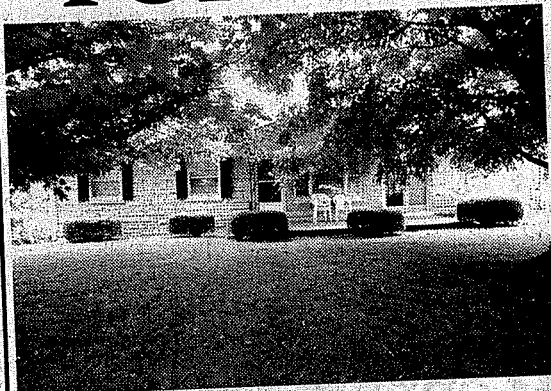
The Adanta Group is seeking families willing to provide a foster home to mentally and emotionally challenged adults and children within our Human Development Services program. They are in need of supportive families who can help them overcome the misfortunes of their past and achieve their goals. Requirements: HS/GED; clean background check, including driving record.

Send resume to:

The Adanta Group
259 Parker's Mill Rd., Somerset, KY 42501
or apply on-line at www.adanta.org.

The Adanta Group, a contractor with the Dept. of Community Based Services, provides behavioral health/residential services with state and federal funds.
E.O.E.

FOR PRIVATE SALE



NICE BEDFORD STONE HOME ON 1/2 ACRE LOT

Located at 2653 Jones Chapel Road near the Gradyville community

House has 4 bedrooms, living room with fireplace, large dining room/kitchen combination with abundance of cabinets and counter space, small den, one bath, carpet and vinyl flooring (has hardwood floor underneath in living room, hallway and bedrooms). Home also has a full walkout basement with a separate storage area for lawn mowers, tools, etc.

For more information call

CLASSIFIEDS

(PN) Public Notice

Cumberland Cellular Partnership a Kentucky general partnership, d/b/a/ Bluegrass Cellular is fulfilling compliance requirements for a proposed 240-foot self-supporting tele-communications tower at 11 Tucker Warren Road, Knifley, Kentucky. To comment on the effect of this tower on historic properties, write to Terracon Consultants, Inc, 4545 Bishop Lane, Ste 101, Louisville, KY 40218 within 30 days of notice.

(PN) 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 (Knifley Cell Site). The facility is a 240 foot tower and an equipment shelter to be located at 211 Tucker Warren Road, Knifley, Kentucky 42753. 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. 2010-00018 in your correspondence.

(PN) Public Notice

PUBLIC NOTICE

The Adair County Project Development Board will have a special called meeting on Tuesday, February 2, 2010 at 4:00 p.m. CST at the new judicial center located at 201 Campbellsville Street, Columbia, KY 42728. The meeting is open to the public.

(J) Articles For Sale

FOR SALE: ALUMINUM SHEETS. 50¢ each. Can be seen at The Adair Progress' office, 98 Grant Lane, Columbia, Ky.

TRANSMISSION, 4 CYL, 5 SPEED manual transmission for 2000 Mit. Eclipse GS model. Less than 3,000 miles. Call 270-384-6471 days; 270-384-9737 nights, ask for Donna.

STEEL BLDGS W/ EXCESSIVE quality 09 recession inventory blowout. Up to 50% off, partially manufactured. Can construct. IAS-AC 472 Mfg. Cert. www.utilityking.com Source#1F8. 866-609-4321.

(P) Furniture/Appliances

SAVE 100'S BRYANT'S FURNITURE AND APPLIANCES ON Hwy. 80. 270-384-5830. **SUPER DISCOUNT** on ASHLEY furniture, RESTONIC bedding, BERKLINE leather, micro-fiber or material reclining sofas, recliners, pianos, children's recliners. **NEW & NEARLY NEW APPLIANCES.** 6 piece cedar wood full size bedroom suite, \$450; Maytag washer and dryer set, SUPER SHAPE,

\$385; king size bed with bedding, \$250; wingback chairs, \$100; full size bedroom suite, \$250; recliners, \$135. Pickup load of yard sale items including furniture.

(Q) Apartments For Rent

2 BEDROOM, CENTRAL HEAT/AIR, stove, ref., D/W, W/D hookup. Heartland Circle-Fairground St. 270-384-9869.

2 BR APT. L.R., KITCHEN, 1 BATH, 1/2, laundry utility room, deck on back. Stove, ref., D/W included. Garbage inc. \$400 mo. \$300 dep. No pets. Farr Lane, Apt. No. 4. 270-250-5870.

2 BR APT. WITH OAK CABINETS, refrigerator, stove, washer/dryer. Garbage pickup, water, and Dish Network furnished. 2 1/4 miles from Columbia on East 80. No pets. \$250 dep. Rent \$95 week. 385-9728 or 634-2006.

(R) House For Rent

FOR RENT: HOUSE, 4383 PELHAM BRANCH RD. (Hwy. 767 No.). New carpet and vinyl downstairs. 378-1865.

3 BEDROOM IN THE COUNTRY-1297 PELLY Lane. Basement, range,

ref., W/D furnished. Central heat and air-al electric, \$550 mo. Plus dep. And utilities. Jim Caywood 250-9740.

(S) Houses For Sale

2-3- BEDROOM HOUSE WITH A FULL BASEMENT located on North 61, five minutes from Wal-Mart and the Cumberland Parkway. Completely remodeled on 1.9 acre m/l with a detached garage and an additional garage. More information: 270 634-4764.

(T) Mobile Homes For Rent

FOR RENT: 2 BR MOBILI

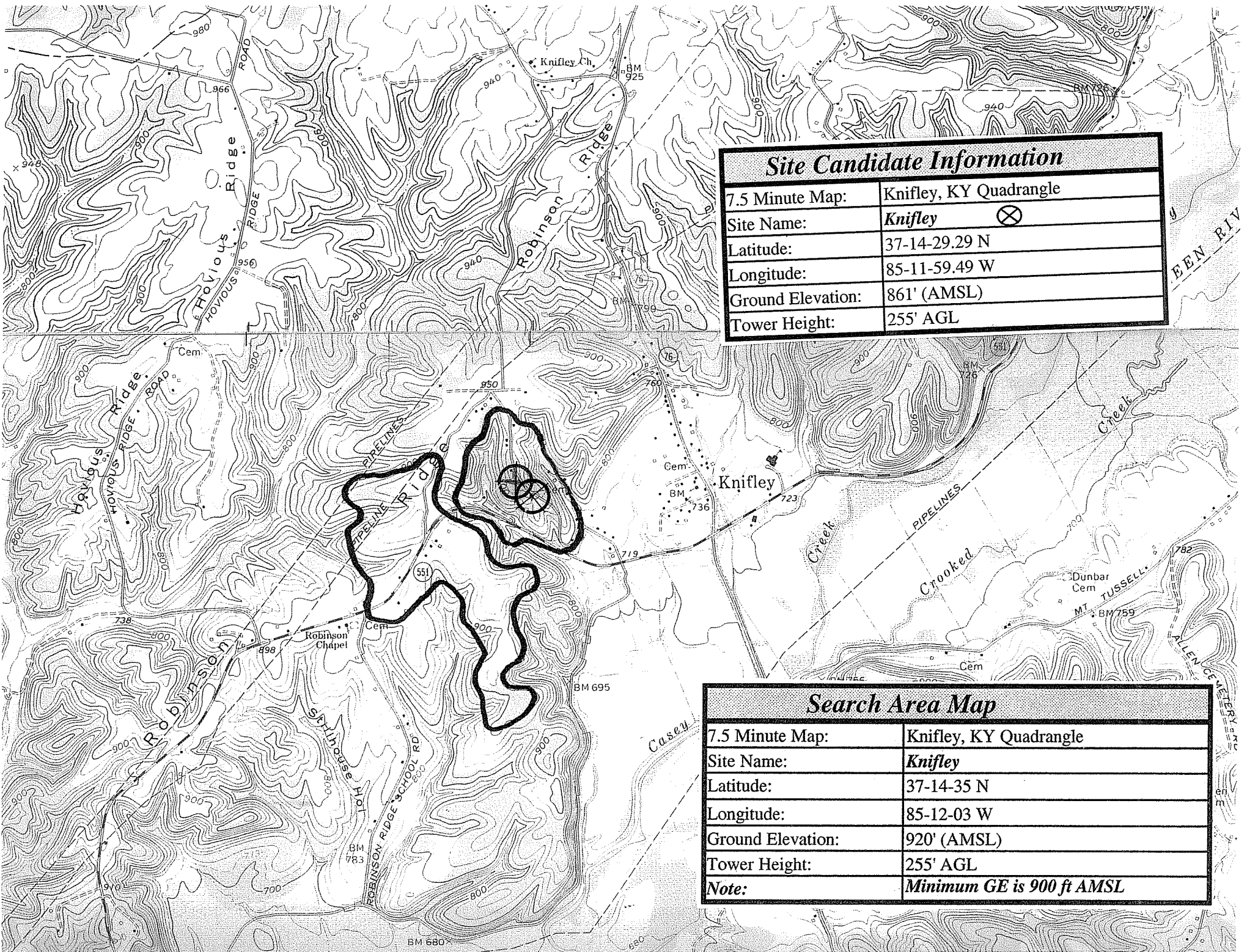
Cook's Fireplace, Inc.
Heating & Cooling
• Woodstoves & Fireplaces
• Chimney and Fireplace Repair
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Site Candidate Information	
7.5 Minute Map:	Knifley, KY Quadrangle
Site Name:	Knifley ⊗
Latitude:	37-14-29.29 N
Longitude:	85-11-59.49 W
Ground Elevation:	861' (AMSL)
Tower Height:	255' AGL

Search Area Map	
7.5 Minute Map:	Knifley, KY Quadrangle
Site Name:	Knifley
Latitude:	37-14-35 N
Longitude:	85-12-03 W
Ground Elevation:	920' (AMSL)
Tower Height:	255' AGL
Note:	Minimum GE is 900 ft AMSL

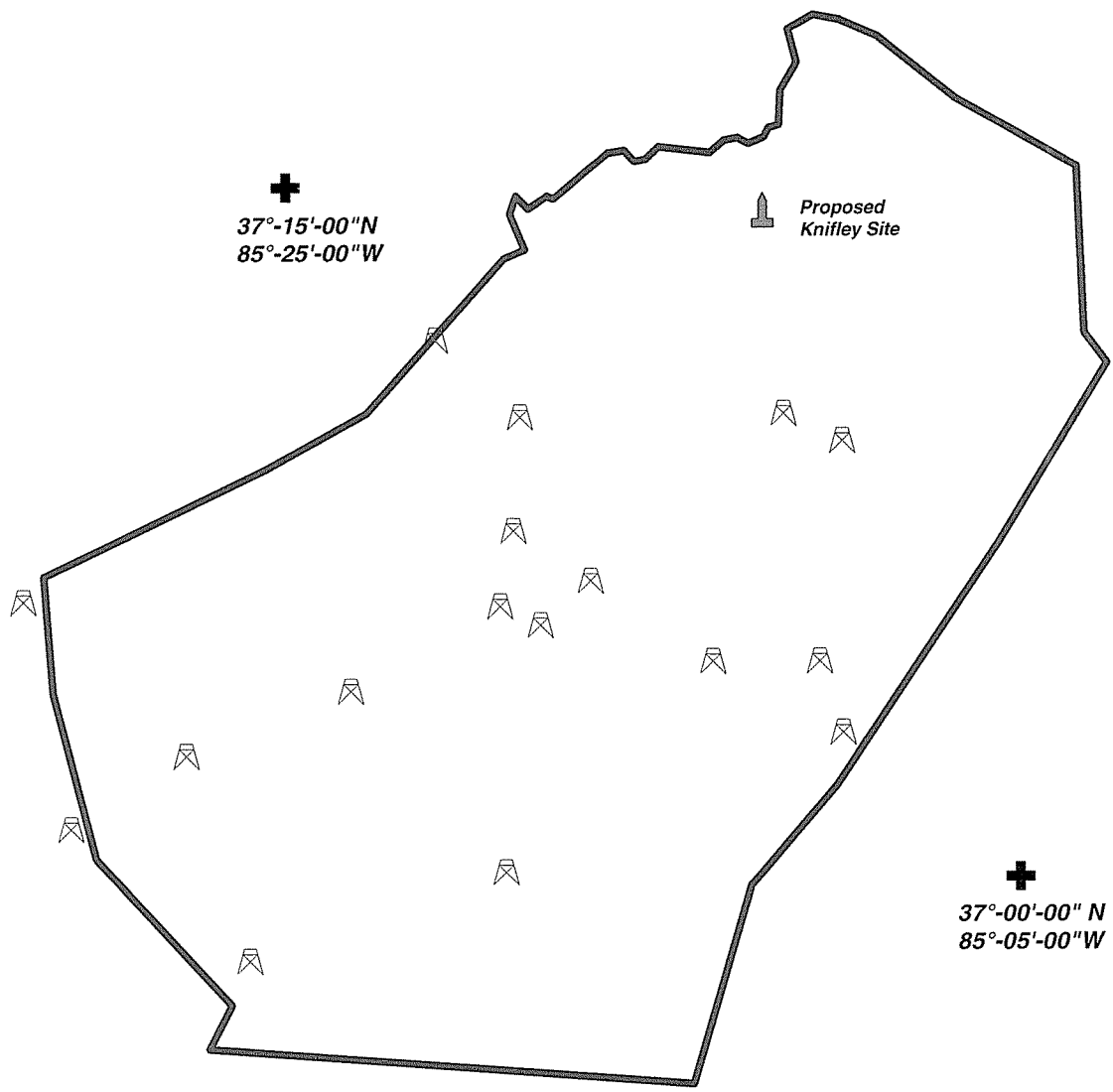
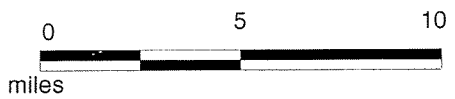
— Adair County Boundary

 Wireless Tower Locations Registered with the FCC

 Proposed Tower Location

 Tick Marks

Prepared By: LNGS Engineering 12/22/2009



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

FCC Tower Reg. No.	North Latitude	West Longitude	City, State	Tower Owner
1041289	37-00-07 N	85-19-01 W	Fairplay, KY	Texas Eastern Communications, Inc.
1043061	37-07-32 N	85-18-48 W	Columbia, KY	Bluegrass Cellular
1043197	37-10-4.2 N	85-11-25.8 W	Columbia, KY	Shoreline Communications, Inc.
1043978	37-05-53 N	85-19-10 W	Columbia, KY	Cumberland Cellular, Inc.
1044249	37-09-29 N	85-09-50 W	Purdy, KY	Western Kentucky University
1044821	37-06-00 N	85-32-10 W	Columbia, KY	Kentucky Emergency Warning System (KEWS)
1044964	37-06-26.2 N	85-16-41.9 W	Columbia, KY	Tri County Broadcasting Corporation
1048811	37-04-40.6 N	85-10-27.6 W	Russell Springs, KY	Shoreline Communications, Inc.
1062332	37-10-00 N	85-18-37 W	Adair, KY	American Chesnut Television, Inc.
1228813	37-05-28 N	85-18-3.9 W	Columbia, KY	SBA Properties, Inc.
1242039	37-02-38.7 N	85-27-43.8 W	Edmonton, KY	Bluegrass Cellular
1252869	37-01-4.3 N	85-30-53.1 W	Edmonton, KY	Shared Towers KY
1254374	37-4-3.1 N	85-23-14.3 W	Columbia, KY	Shared Sites, LLC
1257173	37-4-40.7 N	85-13-22.6 W	Columbia, KY	Shared Sites WV, LLC
1257489	37-3-7.6 N	85-9-49.2 W	Russell Springs, KY	Shared Sites WV, LLC
1261657	36-58-11.8 N	85-26-0.6 W	Breeding, KY	Cumberland Cellular, Inc.
1268209	37-11-40.7 N	85-20-55.2 W	Columbia, KY	Cumberland Cellular, Inc.