Steven L. Beshear Governor

Leonard K. Peters Secretary Energy and Environment Cabinet



Commonwealth of Kentucky
Public Service Commission
211 Sower Blvd.
P.O. Box 615
Frankfort, Kentucky 40602-0615
Telephone: (502) 564-3940
Fax: (502) 564-3460
psc.ky.gov

David L. Armstrong Chairman

James W. Gardner Vice Chairman

Charles R. Borders Commissioner

April 21, 2010

John and Emily Halsey 400 D. Wilson Road Knifley, KY 42753

Re:

Case No. 2010-00018

APPLICATION OF CUMBERLAND CELLULAR PARTNERSHIP FOR ISSUANCE OF A CERTIFICATE OF PUBLIC CONVENIENCE AND NECESSITY TO CONSTRUCT A WIRELESS TELECOMMUNICATIONS FACILITY (KNIFLEY) IN RURAL SERVICE AREA #5 (ADAIR) OF THE COMMONWEALTH OF KENTUCKY

Mr. and Mrs. Halsey:

On April 19, 2010, the Kentucky Public Service Commission ("Commission") received your comments and request for information. Specifically, you requested a copy of the following items provided within the wireless tower construction application:

- (a) Applicant's vertical profile sketch of the tower, signed and sealed by a professional engineer indicating the height of the tower and the placement of all antennas
- (b) Applicant's tower and foundation design plans

Copies of those items, as provided by the Applicant, are included with this letter.

Your letters have been placed in the official case file for this proceeding and the Commission will carefully analyze this application and your comments before rendering its final decision. If you have any additional questions, comments or requests for information, you must submit them to the Commission, with a copy to the Applicant's attorney, within 10 days of the date of this letter.

John and Emily Halsey April 21, 2010 Page 2 of 2

If you have any questions or concerns regarding this matter, please contact Commission Staff Attorney Tiffany Bowman at (502) 564-3940, ext. 465.

Sincerely,

Derouen

xecutive Director

JD/tjb enc.

cc: Main Case File – 2010-00018

Parties of Record



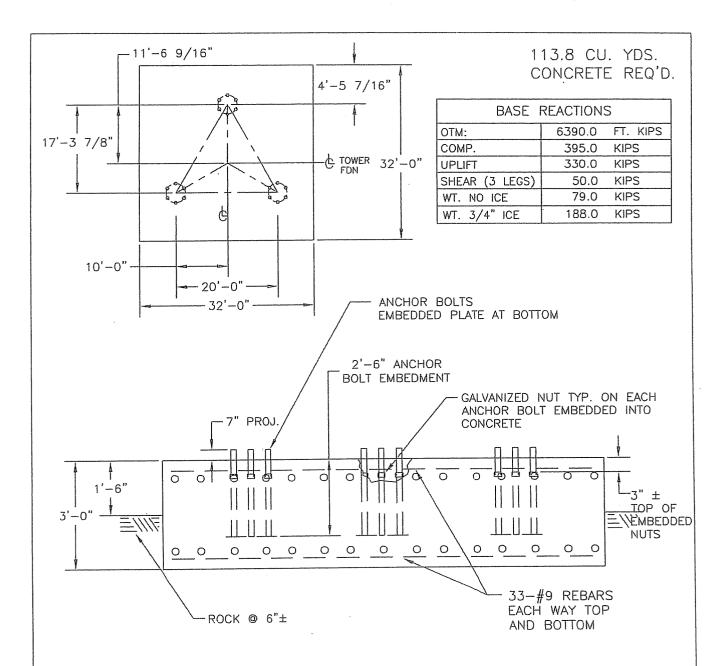
World Tower

1213 Compressor Drive
P.O. Box 508
Mayfield, KY 42066
270-247-3642
FAX: 270-247-0909
E-mail_worldtower.com

Web: www.worldtower.com

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





GENERAL NOTES

- 1. CONCRETE TO HAVE 4000 PSI MIN. COMPRESSIVE STRENGTH AFTER 28 DAYS.
 2. ALL REINFORCMENT 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.

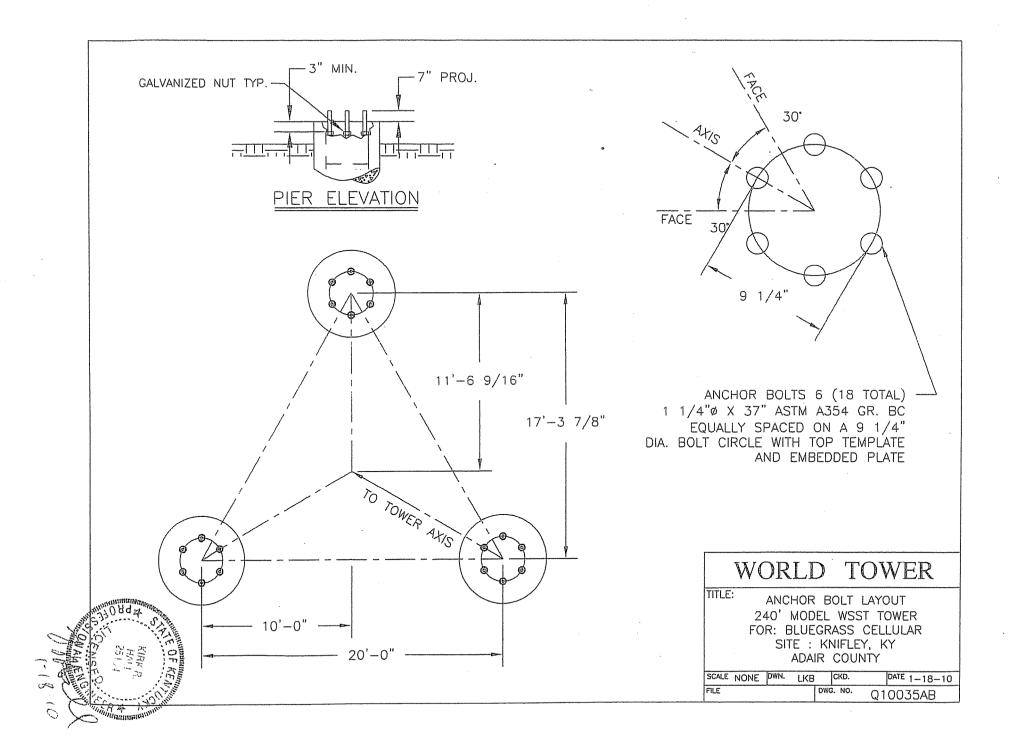
TITLE:

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



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i	r n	***					33				TYPE Flash Beacon Lighting	ELEVATION	TYPE	ELEVATION
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			ů.	G 6	ů	;	9		11111		(w/ 75)*		(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96.5"x11 2"x5 9")*	200
	TV.	1/6					22				WD13X53 Antenna Mounting Frame (w/ 75)*	240	(2) Antel RWB 80014/120 w/ mot	200
'	ž	SR 11/6					÷				WD10053 Antenna Mounting Frame (9// 75)*	240	pipe(Panel 96 5"x11 2"x5 9")*	
		10									(2) Antel RWB 80014/120 w/ mnt	240	WD13X53 Antenna Mounting Frame (w/ 75)*	180
								200 O li			pipe(Panel 96 5"x11 2"x5,9")*		WD13X53 Antenna Mounting Frame (w/ 75)*	180
									1 1 1		(2) Antel RVVB 50014/120 w/ mnt pipe(Panel 96 5"x 11 2"x5 9")*	240	WD13X53 Antenna Mounting Frame	180
. :	2H 2 H2		L2x2x1/6				2				(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11 2"x5.9")*	240	(w/ 75)* (2) Antel RV/B 80014/126 w/ mnt	180
	'n		ğ				-				WD13X53 Antenna Mounting Frame	220	pipe(Panel 95 5"x11.2"x5 9")"	150
		971.						180 O ft			(tyl. 75)* WD13X53 Antenna Mounting Frame	220	(2) Antel RV/B 80014/120 w/ mnt pipe(Panel 95,5"x11,2"x5,9")*	180
		L2x2v 1/6				5.5					(w/ 75)*	220	(2) Antel RWB 80014/120 w/ mnt	180
	Į.	_,									WD13X53 Antenna Mounting Frame (w/ 75)*	220	pipe(Panel 96 5"x11 2"x5.9")* WD13X53 Antenna Mounting Frame	160
2 3	F			-1			::				(2) Antel RWB 30014/120 w/ mm	220	(wl 75)*	100
i	ñ										pipe(Panel 96.5"x11.2"x5.9")* (2) Antel RWB 80014/120 w/ mint	220	WD13X53 Antenna Mounting Frame (w/ 75)*	16D
						1~		160 O ft			pipe(Panel 96 5"x11 2"x5.9")*	220	WD13X53 Antenna Mounting Frame	160
									Julian Laborat		(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11 2"x5 9")*	220	(w/ 75)* (2) Antel RWB 80014/120 w/ mnt	160
	-,	3:16									WD15X53 Antenna Mounting Frame	200	pipe(Panel 96 5"x11.2"x5 9")*	
- 1	Y Y	L2/2×3/16					1:				(w/ 75)* WD13X63 Antenna Mounting Frame	200	(2) Antel RWB 80014/120 w/ mnt pipe(Panel 95.5"x11.2"x5 9")*	160
									¥		(wt 75)*		(2) Antel RWB 80014/120 w/ mnt pipe(Panel 96 5"x11.2"x5.9")*	160
		10				9.5		140 O N	M		WD13X53 Antenna Mounting Frame (wt. 75)*	200	6' Grid Dish	140
		X3V 16		a	,									
<i>s</i> :	25.5	1/2×2 1/2×3/16		8.1.26.76			24 25					··	STRENGTH	
	Sh A572-50	C 1/2		-	j						GRADE Fy A572-50 50 km	Fu 65 ksi	GRADE Fy A36 36 ksi	E KSI
	SH 3 1/2	L3x3x3+16	4.A.	N.A.	4 2	40,1	5 (a) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	100 G R			increase in thickness with Dellections are based upo Tower is designed for feet exposed to the wind on ar	height. on a 60.00 mph wir dlines distributed o ny one face.	ic wind with 0.75 in ice. Ice is and. In 3 tower faces with a maxim theoretical fall radius of half the	um of 6 lines
					į	ũ		555 "						
				5	3									
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	SR 3 3/4	L3x3x1/4				14.5		50 D K	c	MAX. CORNE DOWN. 39 UPLIFT: -3 SHEAR: 33	330 K			
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						ā		40011			MOMENT			
				2	2					SHEAR 6 K ▼	834 kip-ft			
Ë				į	L3X3X2'' 16		5			6 K 🚚	7		and the state of t	.
		27.			Ĵ					TORQUE 1 ki			STATE OF KEN	296 ₀₀
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	(1)	621				_				79 K	MOMENT		KIRK P	1910
2		5					3				6390 kip-ft		HAL- 25 13 1	
							-,			SHEAR 50 K ,	T			0.7 54. 5 € 0.7 54. 5 €
Section	Legs Leg Grade	Diagonals	Diagonal Grate Top Grits	Battom Gins	Figuralis Generalis	Sec. Florizamels Face Width (II) 20	# Panels @ (II) Wegjili (K) 33.9	001		TORQUE 3 ki REACTIONS - 90.00	p-ft		SONAL CONTRACTOR OF THE PROPERTY OF THE PROPER	
ខ្លួ	regs.	. E	Top Top	. ga		Ta Co	# # We						1-10	•

^{ор} 240' WSST Standard / Job Q10-035 World Tower Company 1213 Compressor Drive Project Kniffley, Kentucky
Mayfield, Kentucky 42066 Code: TIA-222-G Date 01/17/10 Phone: (270) 247-3642 FAX: (270) 247-0909 Dwg No E-Path: ChlowenPE Rons/2016/016-035 Knillley/C10-035 on

ELEVATION

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.

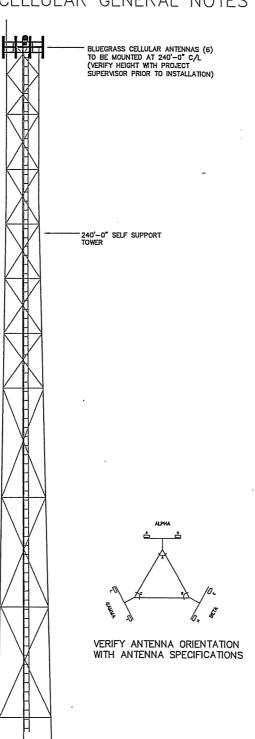
ICE BRIDGE TO BE SUPPLIED AND INSTALLED BY GENERAL CONTRACTOR. (Additional Ice Bridge if needed)

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	AZINUTH	MOUNTING HEIGHT
ANTENNA (PRIMARY)	PENDING	L=78.6 W=10.3 D=4.6	6	0*, 120*, 240*	240'-0" C/L VERIFY WITH CONSTRUCTION SUPERVISOR
ANTENNA (SECONDARY)					•

ANTENNA MOUNTING HARDWARE SPECS

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

ANTENNA TRANSMISSION LINES SPECS

	TYPE	SIZE	HUMBER
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



ANTENNA DETAILS