

KBIK Class C2 Site Change Application

This application proposes to upgrade KBIK to a full power 50,000 watt ERP Class C2 station. The new site is an existing 126.2 meter tower, ASR #1033399. The station, operating as a Class C2 FM, will be fully spaced to all existing licensed stations. A Class C2 FM spacing study, along with a map showing the spacing arcs, are both attached to the application. The proposed site is located only 15 kilometers or 9.3 miles south of downtown Independence, Kansas, the city of license. The proposed city grade 70 dBu or 3.16 mv/m contour over Independence will extend out to a calculated distance of 32.6 kilometers. A signal exceeding the city grade signal requirement will be provided over the entire city. The proposed local parameter exhibit and map showing the coverage over Independence are both attached to this application. The KBIK Class C2 site change upgrade will be in compliance with the Commissions requirements.



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02-03-2020

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FM Study for: KBIK

FCC Database Date: 1/31/2020

37-05-38

Location: INDEPENDENCE, KS

Channel Class: C2

95-41-52

[*] by HAAT indicates calculated as missing in database.

Call City, State

Chan Class Freq kW

Latitude

Dist.

Required

Status Proponent

File Number HAAT

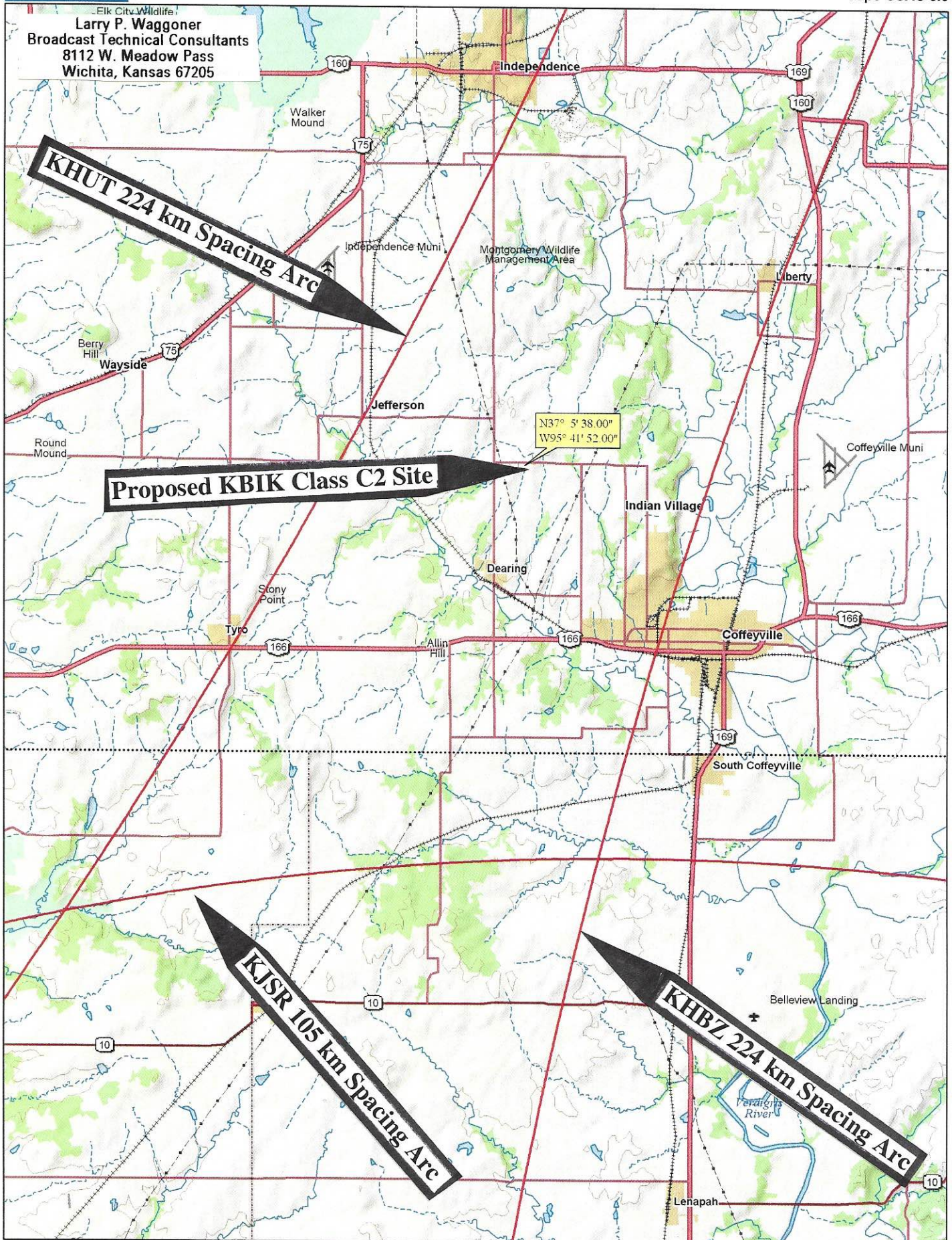
Longitude

Azm.

Clear (km)

>>>>>>> Study For Channel 275 102.9 MHz <<<<<<<<

KHUT	HUTCHINSON, KS	275 C1 102.9 98.0	38-02-39	230.3	224	
LIC	Fac. No. 18068	BLH-19910530KB 131	98-00-56	298.0	+6.3	CLOSE
KHBZ	HARRISON, AR	275 C1 102.9 100.	36-26-10	231.0	224	
LIC	Fac. No. 26235	BLH-20130926BCC 293	93-14-36	107.7	+7.0	CLOSE
KJSR	TULSA, OK	277 C 103.3 100.	36-01-14	119.2	105	
LIC	Fac. No. 9801	BLH-20150114AAD 395	95-39-28	178.3	+14.2	CLOSE
KIXQ	JOPLIN, MO	273 C1 102.5 100.	37-05-49	99.9	79	
LIC	Fac. No. 5269	BLH-20060106ABQ 278	94-34-25	89.5	+20.9	CLEAR
KPIMLP	BROKEN ARROW, OK	275 L1 102.9	36-02-08	118.6	91	
LIC	Fac. No. 197632	BLL-20141210AAE 42	95-52-59	188.1	+27.6	CLEAR
KTOPFM	ST. MARYS, KS	275 C2 102.9 30.0+	39-03-50	218.7	190	73.215
LIC	Fac. No. 60034	BLH-20030326AHX 182	95-45-49	358.5	+28.7	CLEAR
KEKS	OLPE, KS	276 A 103.1 2.45	38-17-37	140.8	106	73.215
LIC	Fac. No. 166016	BLH-20061117ADU 96	96-13-03	341.2	+34.8	CLEAR



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Scale 1 : 187,500



1 cm = 1.88 km Data Zoom 10-1

02-03-2020

Site Coordinates: 37-05-38 North 95-41-52 West
 NGDC 30-Second Database is used in Continental US
 DEM-30 Database is used in AK, HI, and PR.

Azm (deg)	HAAT (mtrs)	70 dBu (km)	60 dBu (km)	Radial (mtrs)
0	151	32.6	52.2	243
45	158	33.3	53.0	236
90	164	33.9	53.7	230
135	169	34.4	54.3	225
180	154	32.9	52.6	240
225	137	31.2	50.4	257
270	147	32.2	51.7	247
315	140	31.5	50.8	254

	Data in (feet)	meters
Overall Height Above Average Terrain:	(502)	153 *
Site Elevation AMSL:	(913)	278
Antenna Height Above Ground Level:	(381)	116
Antenna Center Above Sea Level:	(1,294)	394
Overall Ground Average Terrain AMSL:	(792)	241
Effective Radiated Power:	50.00 kW	*
TV/FM Channel:	275	

Diagram illustrating the structure of the 6 Bay Antenna, showing vertical dimensions and levels:

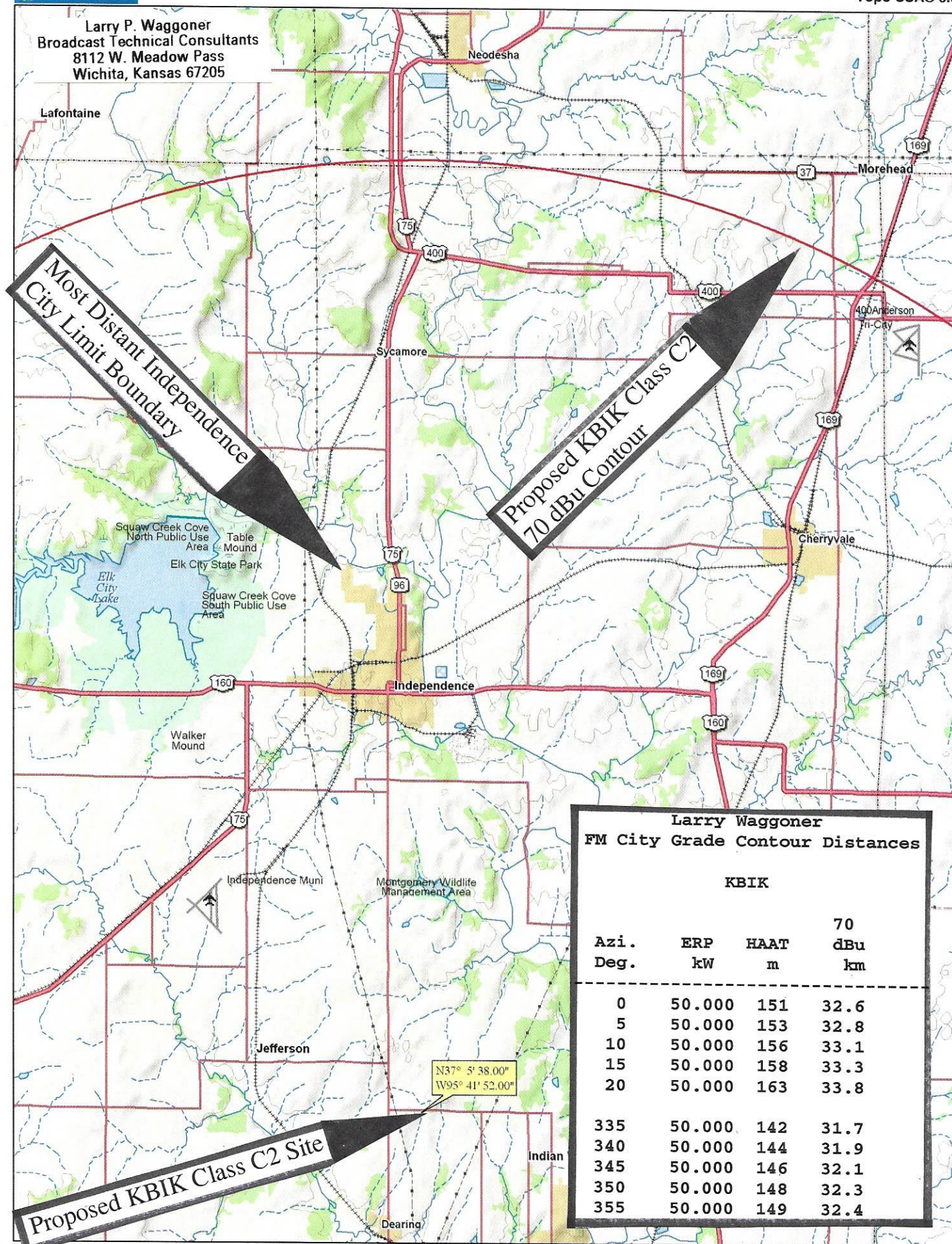
- 6 Bay Antenna** (Top section)
- Center Antenna** (Middle section)
- Ground Level** (Bottom section)
- Sea Level** (Bottom-most section)

Vertical dimensions and levels are indicated by dashed lines and brackets:

- [404]**: Dimension from Sea Level to the top of the 6 Bay Antenna.
- [126]**: Dimension from Ground Level to the top of the 6 Bay Antenna.
- [116]**: Dimension from Ground Level to the top of the Center Antenna.
- [394]**: Dimension from Sea Level to the top of the Center Antenna.
- [278]**: Dimension from Sea Level to the top of the 6 Bay Antenna.

The structure is divided into sections by dashed lines, with levels marked as O, XC, X, and A.

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FM City Grade Contour Distances

KBK			
Azi. Deg.	ERP kW	HAAT m	70 dBu km
0	50.000	151	32.6
5	50.000	153	32.8
10	50.000	156	33.1
15	50.000	158	33.3
20	50.000	163	33.8
335	50.000	142	31.7
340	50.000	144	31.9
345	50.000	146	32.1
350	50.000	148	32.3
355	50.000	149	32.4

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