

Exhibit 14 - Statement B
ALLOCATION CONSIDERATIONS
prepared for
The WBEZ Alliance, Inc.
WAJW(FM) Chesterton, Indiana
Facility ID 3248
Ch. 208B 50 kW (MAX-DA) 74 m

Non-commercial educational FM radio station WAJW(FM) (Ch.208B1, Chesterton, IN) is presently licensed (BLED-19990813KA) to operate with 7 kW effective radiated power (“ERP”) with a non-directional antenna at a height above average terrain (“HAAT”) of 66 meters. A Construction Permit (“CP,” BPED-20000223ABQ) authorizes an increase in ERP for WAJW to 23 kW and to employ a directional antenna pattern.

The antenna for station WEFM(FM) (Ch. 240A, Michigan City, IN) is presently co-located on the same antenna structure as WAJW, and is situated above the present WAJW facility. Representatives from WEFM have advised that WEFM will be relocating its facility to a separate tower structure, and the space presently occupied by WEFM’s antenna will become available. Accordingly, the instant proposal seeks to employ a higher position on the existing tower structure, as well as an increase in ERP.

Specifically, the instant application seeks to modify the WAJW CP to specify an increase in ERP and HAAT to 50 kW at 74 meters, respectively, with a directional antenna pattern. No change in transmitter site or overall antenna structure height is requested. The existing tower structure’s Antenna Structure Registration number is 1027621.

A directional antenna system is proposed. The attached **Exhibit 14 - Figure 1** supplies a plot of the proposed directional “envelope” pattern. Tabulated relative field data is supplied in the accompanying FCC Form 340 Section VII “Tech Box” item 11.

A study of the minimum separation requirements for the proposed transmitter site shows that the following existing FM facilities require study in regard to prohibited overlap under §73.509 of the Commission’s Rules:

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Channel	Call		City	State	Lat	Distance
Applicant/Licensee					Long	Bearing
=====						
207B1	WNUR-FM	LIC	EVANSTON	, IL	42- 3-12	77.16
	NORTHWESTERN UNIVERSITY			30M	87-40-33	299.31
207A	980414MB	APP	PLYMOUTH	, IN	41-20-51	59.86
	AMERICAN FAMILY ASSOCIATION			76M	86-20-23	132.97
207A	WKKC	LIC	CHICAGO	, IL	41-46-15	64.09
	BOARD OF TRUSTEES COMM COL DIST 508			35M	87-37-48	275.70
208B	981023MM	APP	LOGANSPO	, IN	40-40- 8	117.15
	CSN INTERNATIONAL			122M	86-41-44	173.06
208B1	WBMY	CP MOD	SCHOOLCRAFT	, MI	42- 6-38	111.10
	FAMILY STATIONS, INC			42M	85-37-57	66.37
208A	WBKE-FM	LIC	NORTH MANCHESTER	, IN	41- 0-40	120.87
	MANCHESTER COLLEGE			24M	85-45-45	130.01
209A	WUBS	LIC	SOUTH BEND	, IN	41-40-51	50.40
	INTERFAITH CHRISTIAN UNION, INC.			24M	86-15-34	94.26
209B	WONU	LIC	KANKAKEE	, IL	41- 9-24	104.69
	OLIVET NAZARENE UNIVERSITY			126M	87-52-16	233.93
209A	WUBS	APP	SOUTH BEND	, IN	41-40-51	50.40
	INTERFAITH CHRISTIAN UNION, INC.			68M	86-15-34	94.26
210B1	WHLP	LIC	HANNA	, IN	41-26- 9	31.16
	CSN INTERNATIONAL			154M	86-50-48	177.48

The attached **Exhibit 14 - Figures 2, 3, 3A, 3B, and 4** depict the pertinent protected and interfering contours of the stations listed and the proposed WAJW facility. The contours were plotted using the actual ERP and height above terrain along each radial for each facility, as specified in §73.509(c). For the facilities under study, the antenna elevation above mean sea level, geographic coordinates, and ERP (including directional antenna relative field values, where appropriate) were retrieved from the FCC's engineering database. The requisite contours were determined using U.S.G.S. 3-second digitized terrain data along each radial of interest from each transmitter site and an implementation of the Commission's TVFMFS computer program which simulates the FM

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propagation curves. The F(50,10) distances are used to calculate distance to interfering contours, however if the distance is less than 16 km the F(50,50) curves are used, as specified by §73.509(c)(1).

Exhibit 14 - Figure 2 illustrates that there is no prohibited overlap between the proposed WAJW facility and pertinent co-channel facilities. **Exhibit 14 - Figure 3** depicts the allocation situation with pertinent first adjacent facilities. Detail views to demonstrate the lack of prohibited contour overlap to WONU and WUBS are provided in **Exhibit 14 - Figures 3A** and **3B**, respectively. **Exhibit 14 - Figure 4** supplies an allocation map for any pertinent second and third adjacent stations. WHLP is the only second adjacent facility near enough for consideration. There are no third adjacent facilities close enough to warrant study.

As shown on **Exhibit 14 - Figure 3**, contour overlap does occur with respect to WNUR-FM (Ch. 207B1, Evanston, IL). However, the overlap with WNUR-FM occurs entirely over water, which is permitted under §73.509(e). In each other case, prohibited contour overlap does not occur. Thus, **Exhibit 14 - Figures 2, 3, 3A, 3B, and 4** show that the proposed WAJW facility fully complies with the prohibited overlap criteria of §73.509(a).

A spacing study was performed as required by §73.507(c) (regarding facilities differing in frequency by 10.6 or 10.8 MHz from the proposal). The proposed facility meets the minimum distance separation requirements of §73.207 in all such instances. The nearest station on the pertinent channels is summarized below.

Channel	Call	City	State	Lat	Distance	Reqr'd
Applicant/Licensee				Long	Bearing	Clear
261A	WFRI	LIC WINAMAC	, IN	41- 2-21	80.61	15.0
PROGRESSIVE BROADCASTING SYSTEM, INC			6.00 kW 100M	86-30-55	158.73	65.61
262B	WNND	LIC CHICAGO	, IL	41-53-56	66.34	20.0
BONNEVILLE HOLDING COMPANY			8.30 kW 358M	87-37-23	288.07	46.34

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262B WNND CP CHICAGO
BONNEVILLE HOLDING COMPANY

, IL 41-53-56 66.34 20.0
5.70 kW 425M 87-37-23 288.07 46.34

TV Channel 6 Considerations

Under §73.525(a)(1), an affected TV Channel 6 station must be considered with a proposed non-commercial educational facility on Channel 208 if the distance between the respective transmitter sites is 196 km or less. Within a 196 km radius of the proposed WAJW facility, the only TV Channel 6 facility is that of WITI(TV), Milwaukee, Wisconsin (BLCT-19990129KT), at a distance of 174.8 km.

Accordingly, **Exhibit 14 - Figure 5** depicts the WITI Grade B (47 dB μ) contour, along with the interfering 67.3 dB μ F(50,10) from the proposed WAJW facility.¹ As shown on **Exhibit 14 - Figure 5**, there is no overlap between these contours. Accordingly, the instant proposal complies with the television Channel 6 protection criteria of §73.525.

International Coordination

The WAJW site is located 309 km from the U.S. - Canadian Border. WAJW is presently considered a Class B1 facility for international coordination purposes. Under the instant proposal, WAJW will become a Class B facility. As a Class B facility, the WAJW site meets all minimum distance separation requirements listed under §73.207(b)(2) of the Commission's Rules with respect to known Canadian assignments and allotments (based on data extracted from the Commission's engineering database). Any necessary coordination with Canada is requested.

Determination of Height Above Average Terrain

Terrain data for the eight "cardinal" radials for the proposed WAJW were obtained from U.S.G.S. 3 arc-second digitized terrain data. The determination of HAAT excluded the consideration of the 0° True radial per §73.313(d)(2). The 3 to 16 km section of this radial extends

¹The interfering contour level is determined in accordance with §73.525(e)(1)(ii), and does not consider the additional 6 dB receiving antenna directivity as permitted by §73.525(e)(1)(iii).

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entirely over Lake Michigan, and the 34 dB μ (50 μ V/m) coverage contour does not encompass United States land area beyond the 16 km portion of this radial. Accordingly, the determination of HAAT was based on the average antenna elevation of the remaining seven radials. Averaging these seven radials, the proposed antenna's resulting height above average terrain is 73.7 meters.

It is thus believed that the facility proposed herein will satisfy all of the pertinent Commission Rules and Policies now in effect regarding allocation matters.

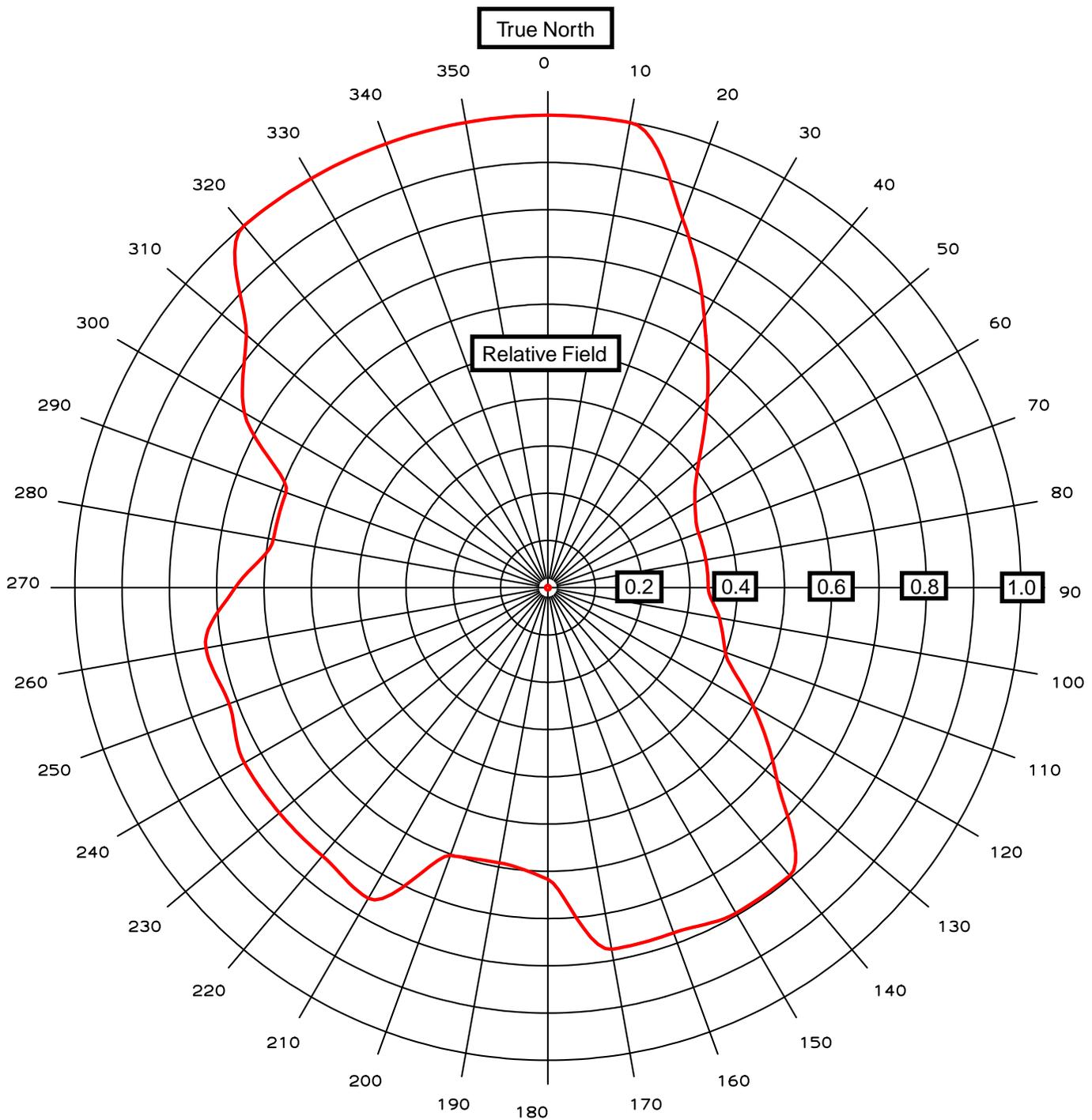
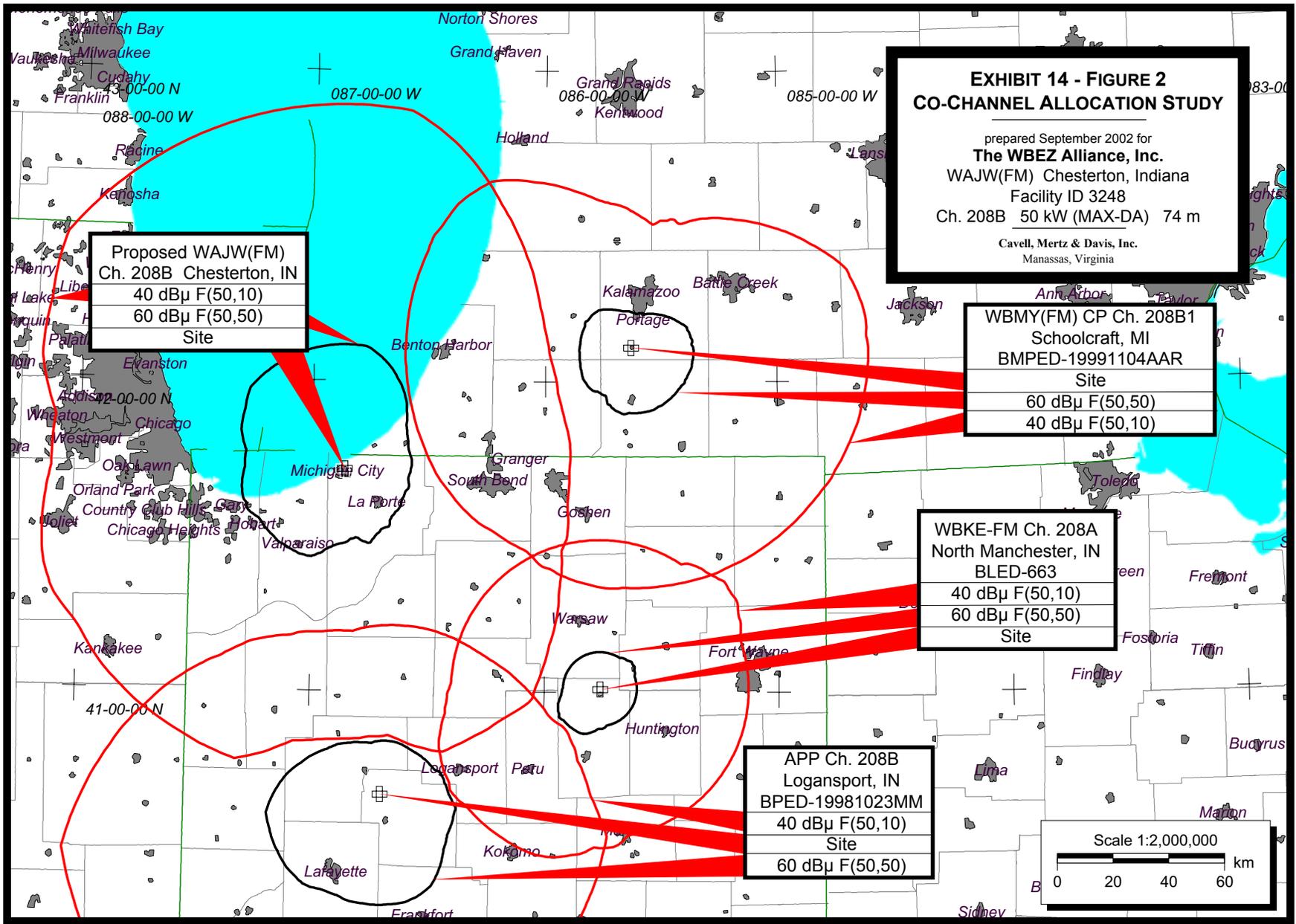
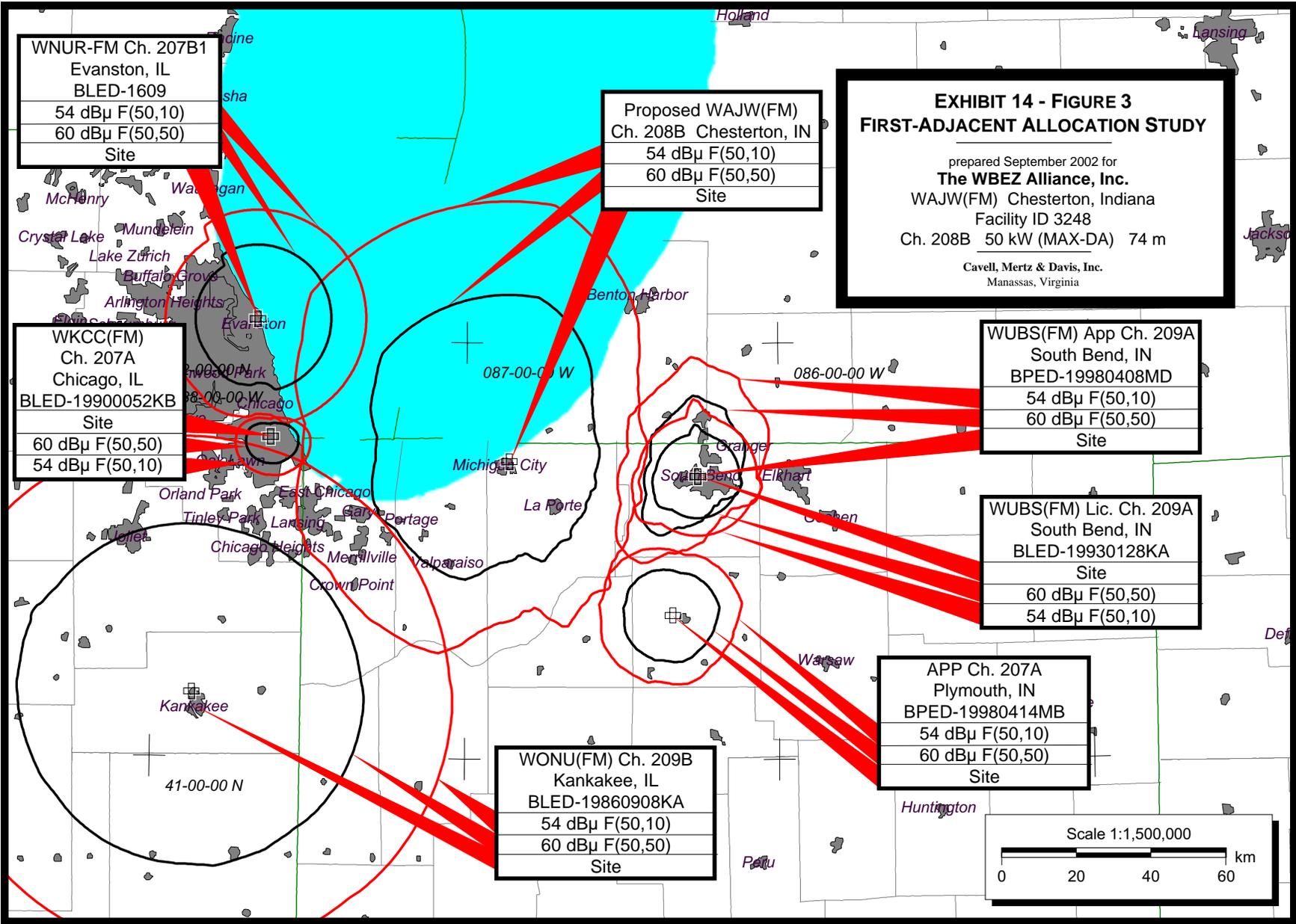


EXHIBIT 14 - FIGURE 1
ANTENNA HORIZONTAL PLANE ENVELOPE PATTERN

prepared September 2002 for
The WBEZ Alliance, Inc.
 WAJW(FM) Chesterton, Indiana
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Cavell, Mertz & Davis, Inc.
 Manassas, Virginia





**EXHIBIT 14 - FIGURE 3A
FIRST-ADJACENT ALLOCATION STUDY
DETAIL TO WONU(FM)**

prepared September 2002 for
The WBEZ Alliance, Inc.
 WAJW(FM) Chesterton, Indiana
 Facility ID 3248
 Ch. 208B 50 kW (MAX-DA) 74 m

Cavell, Mertz & Davis, Inc.
 Manassas, Virginia

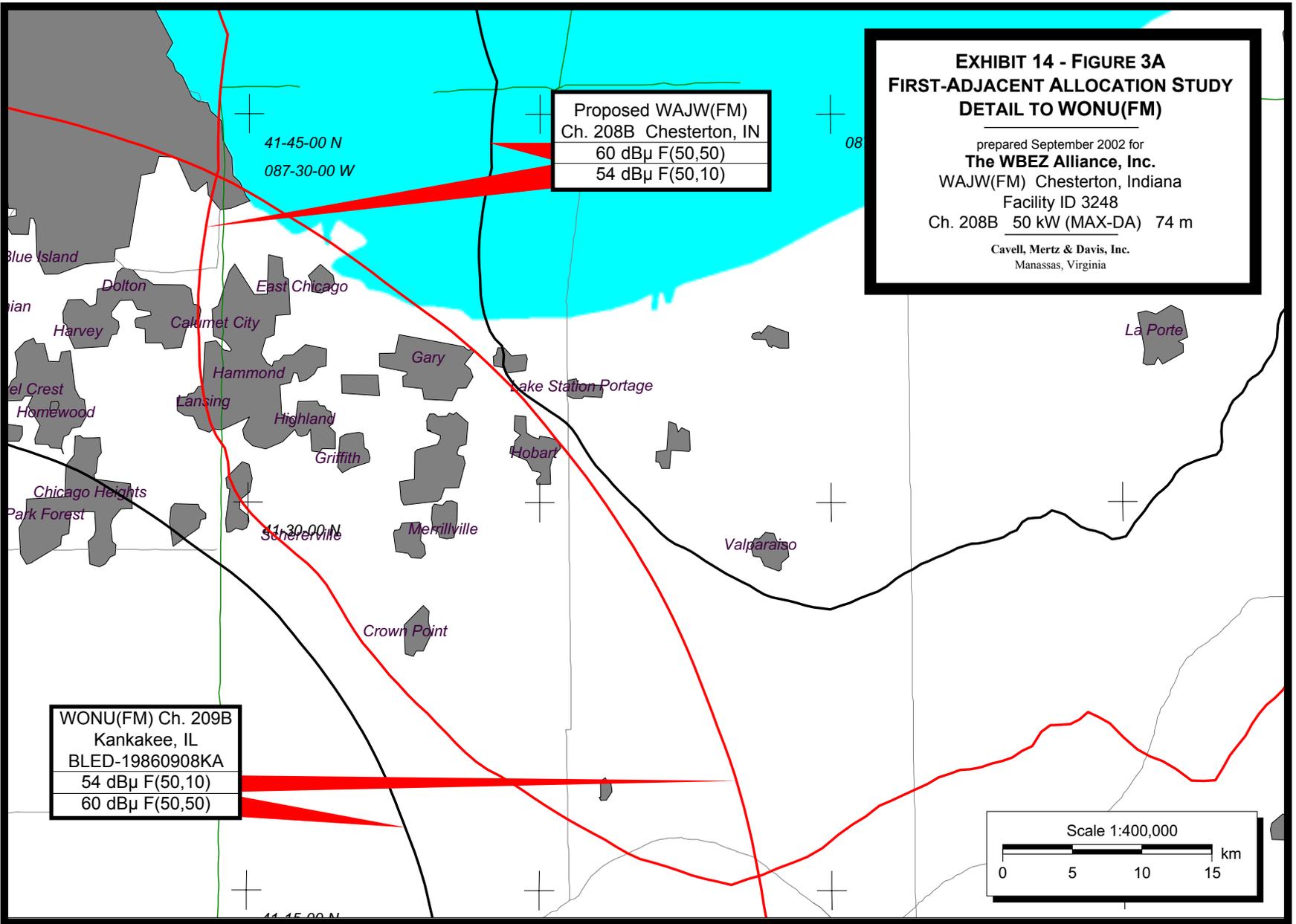
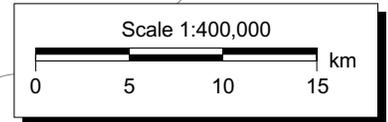
Proposed WAJW(FM) Ch. 208B Chesterton, IN
60 dB μ F(50,50)
54 dB μ F(50,10)

WONU(FM) Ch. 209B Kankakee, IL
BLED-19860908KA
54 dB μ F(50,10)
60 dB μ F(50,50)

41-45-00 N
087-30-00 W

41-30-00 N
87-30-00 W

41-45-00 N



Proposed WAJW(FM)
 Ch. 208B Chesterton, IN
 54 dB μ F(50,10)
 60 dB μ F(50,50)

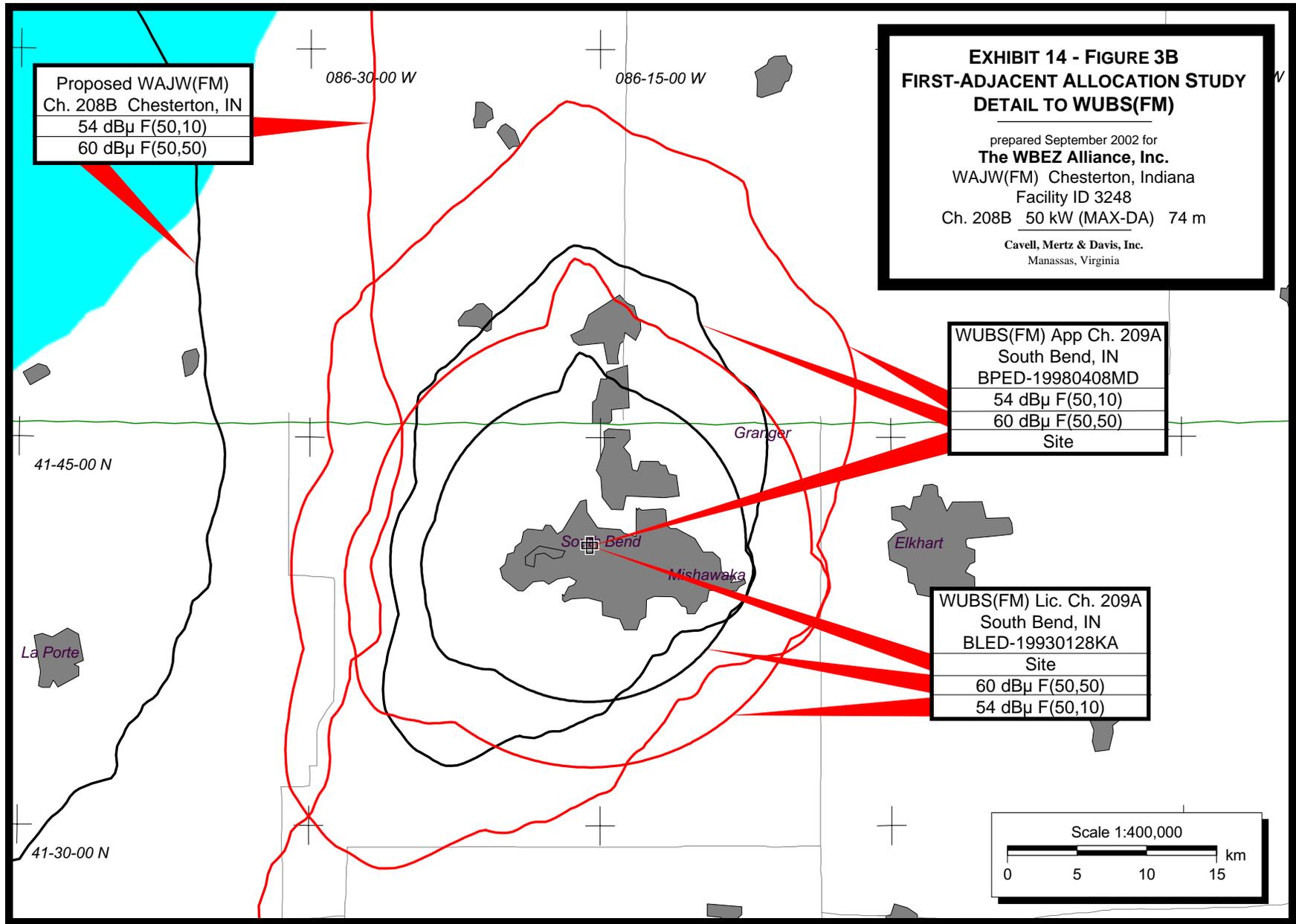
EXHIBIT 14 - FIGURE 3B
FIRST-ADJACENT ALLOCATION STUDY
DETAIL TO WUBS(FM)

prepared September 2002 for
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 WAJW(FM) Chesterton, Indiana
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 Ch. 208B 50 kW (MAX-DA) 74 m

Cavell, Mertz & Davis, Inc.
 Manassas, Virginia

WUBS(FM) App Ch. 209A
 South Bend, IN
 BPED-19980408MD
 54 dB μ F(50,10)
 60 dB μ F(50,50)
 Site

WUBS(FM) Lic. Ch. 209A
 South Bend, IN
 BLED-19930128KA
 Site
 60 dB μ F(50,50)
 54 dB μ F(50,10)

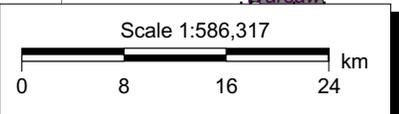
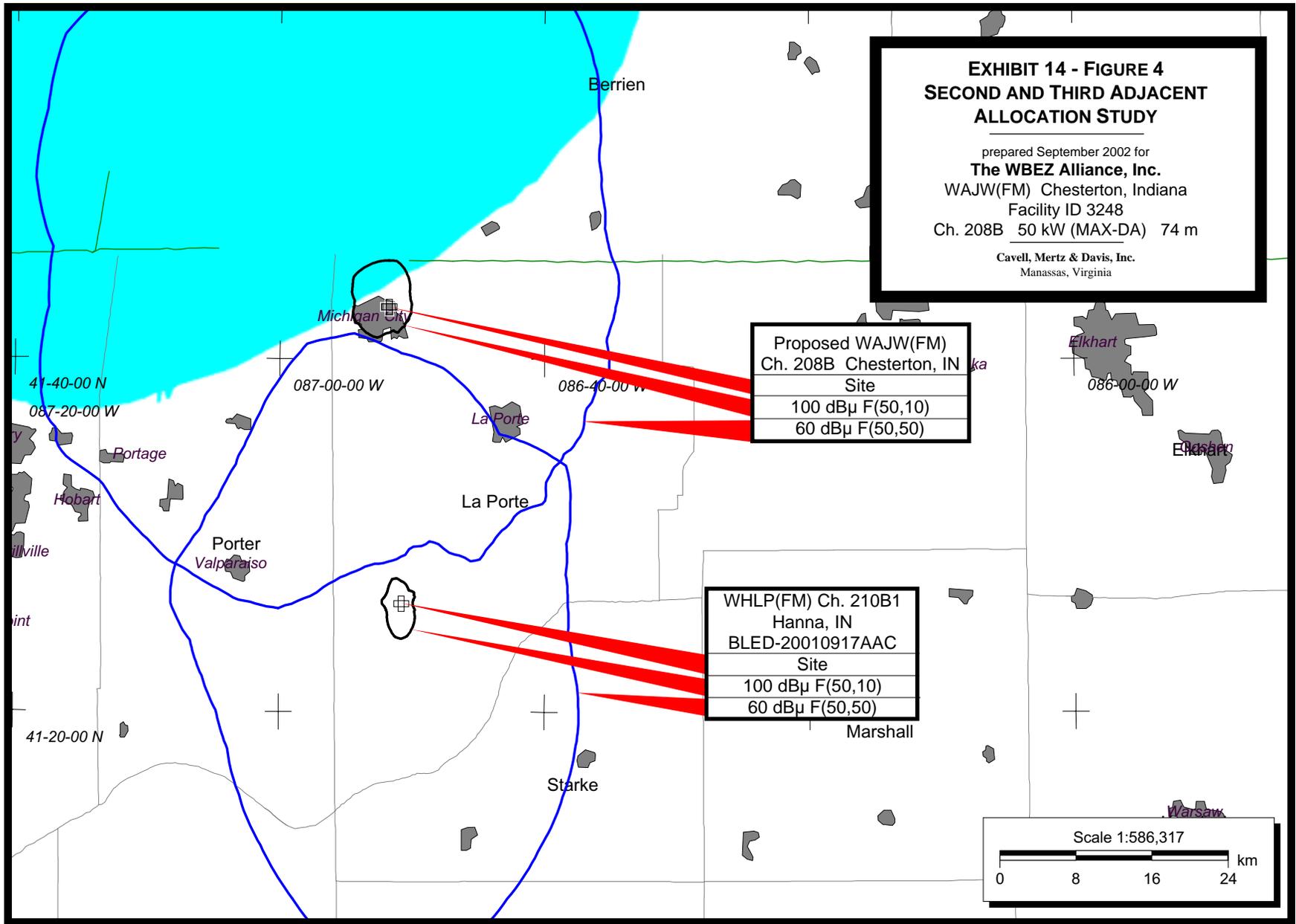


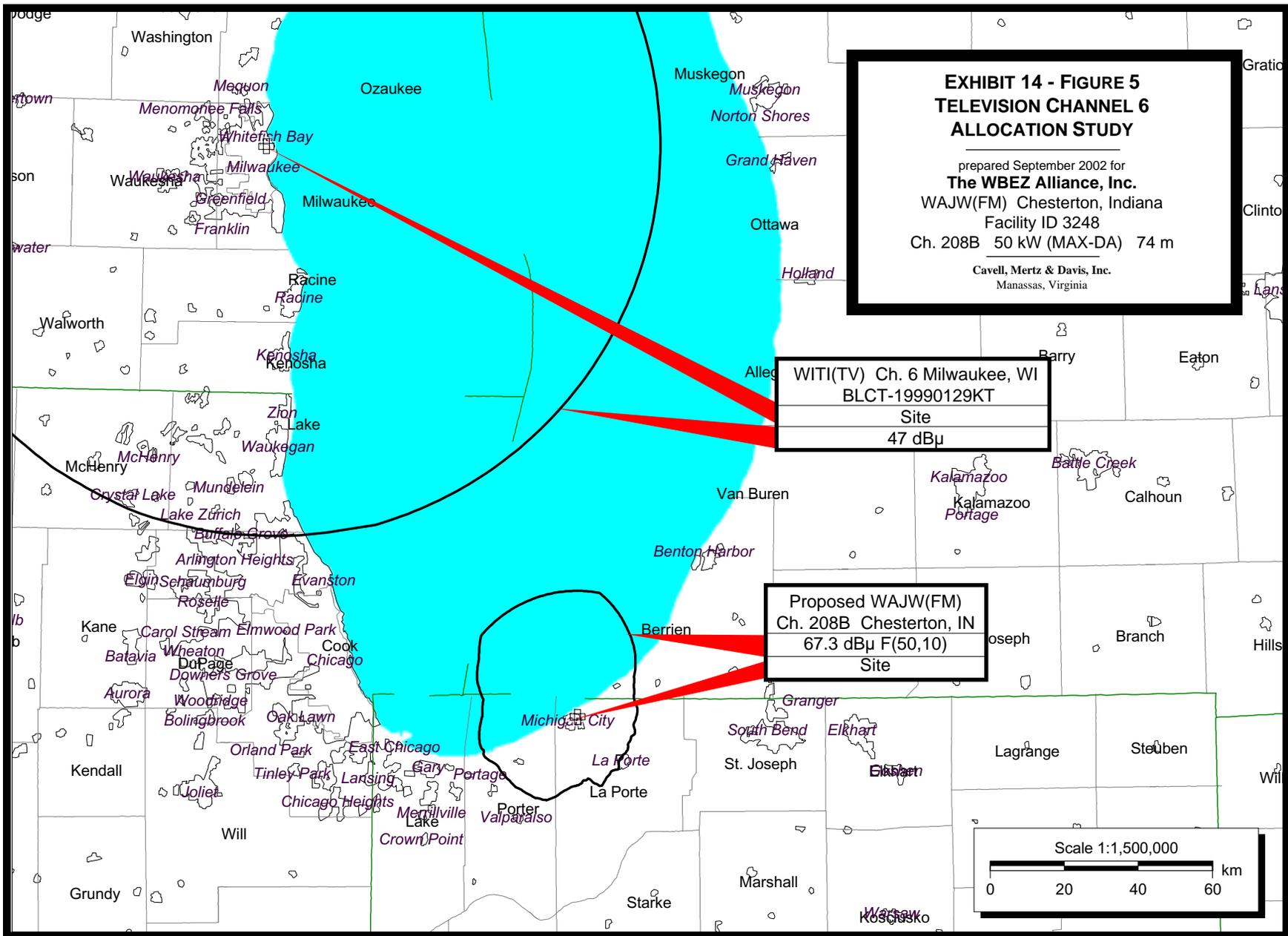
**EXHIBIT 14 - FIGURE 4
SECOND AND THIRD ADJACENT
ALLOCATION STUDY**

prepared September 2002 for
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 Cavell, Mertz & Davis, Inc.
 Manassas, Virginia

Proposed WAJW(FM)
 Ch. 208B Chesterton, IN
 Site
 100 dBμ F(50,10)
 60 dBμ F(50,50)

WHL P(FM) Ch. 210B1
 Hanna, IN
 BLED-20010917AAC
 Site
 100 dBμ F(50,10)
 60 dBμ F(50,50)





**EXHIBIT 14 - FIGURE 5
TELEVISION CHANNEL 6
ALLOCATION STUDY**

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Cavell, Mertz & Davis, Inc.
 Manassas, Virginia

WITI(TV) Ch. 6 Milwaukee, WI
 BLCT-19990129KT
 Site
 47 dBμ

Proposed WAJW(FM)
 Ch. 208B Chesterton, IN
 67.3 dBμ F(50,10)
 Site

