

**MINOR CHANGE APPLICATION**  
**RADIO POWER, INC.**  
**W230BI FM TRANSLATOR STATION**  
**CH 232D - 94.3 MHZ - 0.099 KW DA**  
**DETROIT, MICHIGAN**  
**September 2010**

**EXHIBIT B**

As indicated, the proposed operation of W230BI, with an effective radiated power of 0.099 kilowatt at 274.3 meters above ground level, will not cause interference to any existing, applied for, or proposed facility, as noted on Exhibit B1. However, the proposed W230BI site is inside the 54 dBu contour of second adjacent station WCSX, Channel 234B, Birmingham, Michigan. Due to the relationship between W230BI and WCSX, a 40 dB ratio of the protected and interfering contours applies. As the signal level of WCSX is above 54 dBu at the proposed tower site for W230BI, we have applied the 40 dB ratio to the contour of WCSX, based on the relevant protected contour at the proposed translator site. A map showing the relative contour of WCSX at the proposed W230BI site is attached as Exhibit B2.

The signal of WCSX at the proposed W230BI site is 118.3 dBu (50/50). As such, the interfering contour of the translator would need to be above 158.3 dBu (50/10) to cause interference to WCSX. The 158.3 dBu contour of the proposed W230BI translator extends 0.8 meter (3 feet) from the translator antenna. Since the W230BI translator antenna will be located 274.3 meters above ground level, any interference W230BI might deliver would not reach the ground. As such, WCSX will not receive interference from the proposed translator.

Also noted on Exhibit B1, predicted interference is delivered from the proposed W230BI on Channel 232D to the allocation of Channel 232B at Chatham, Ontario and CKLW, Channel 230C1, Windsor, Ontario. As depicted on Exhibit B3a, neither the 34 dBu (50/10) nor 94 dBu (50/10) interfering contour of the proposed W230BI on Channel 232D crosses the US-Canadian border. As such, the interference to the allotment at Chatham and CKLW is not considered.

Based on the foregoing, it is believed that the proposed W230BI facility is in compliance with §74.1204(d) of the Commission's rules. If a waiver of the rule is needed, one is respectfully requested.



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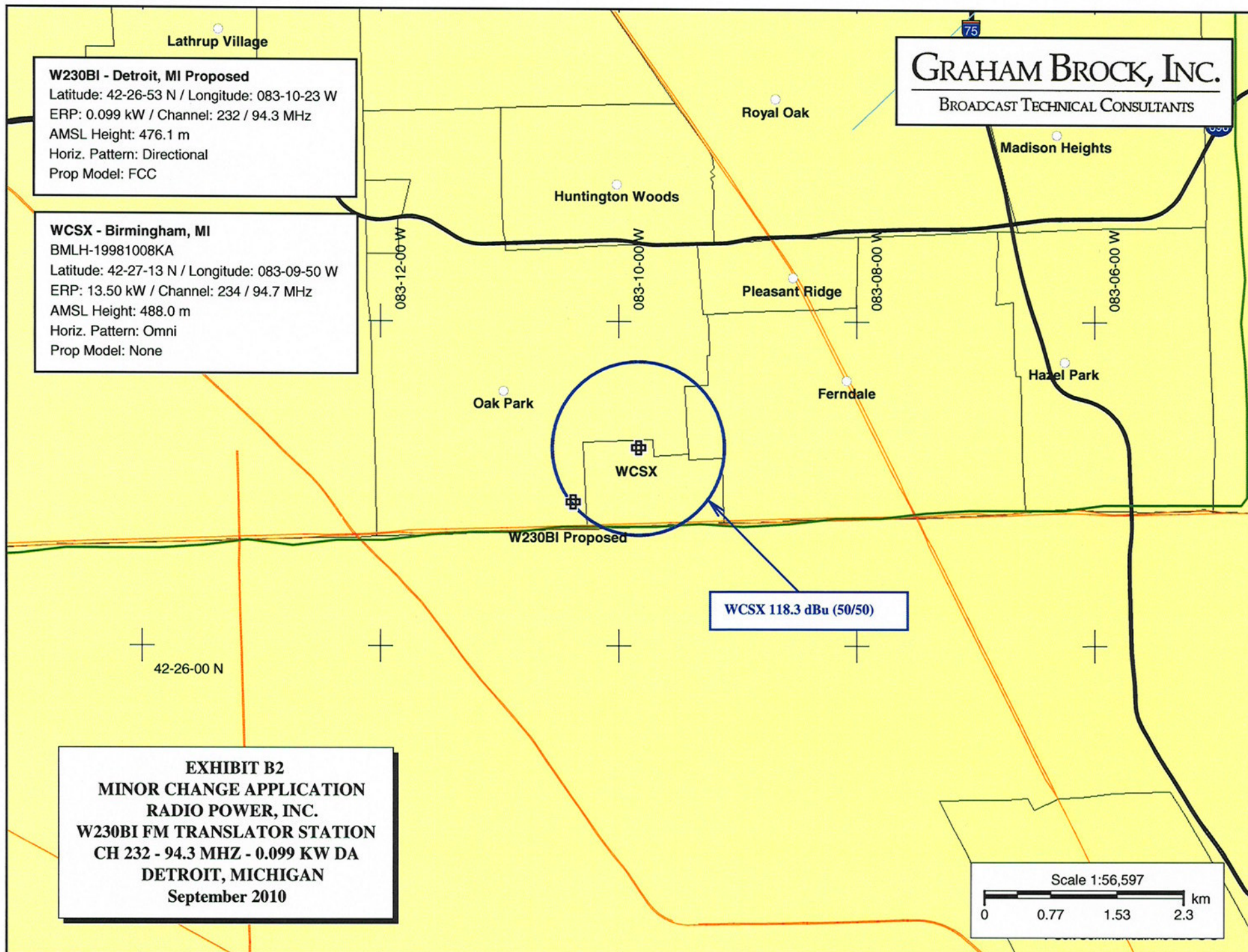
**EXHIBIT B1**

**Interference Review for W230BI on Channel 232D, Detroit, Michigan**  
**Using Proposed Site as Reference**

REFERENCE 42 26 53.0 N. 83 10 23.0 W.		CH# 232D - 94.3 MHz, Pwr= 0.099 kW DA, HAAT= 277.5 M, COR= 476.1 M Average Protected F(50-50)= 17.2 km Standard Directional								DISPLAY DATES DATA 09-25-10 SEARCH 09-28-10	
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
230D Rochester Hills	W230BI	LIC	DV MI	357.5 177.5	25.8 BLFT20100930ATY	42 40 48.0 83 11 13.0	0.250	1.0 296	9.5 Radio Power Inc.	8.2	15.6
234B Birmingham	WCSX	LIC	CN MI	50.6 230.6	1.0 BMLH19981008KA	42 27 13.0 83 09 50.0	13.500 290	5.5 488	65.9 Greater Boston Radio, Inc.	-21.9*<	-66.3*<
232B Chatham	AL8509		ON	93.4 274.1	81.6	42 24 00.0 82 11 00.0	50.000 150	138.6 328	65.0	-63.4*<	-15.3<
230C1 Windsor	CKLW	OPE	?CN ON	154.1 334.2	34.2	42 10 15.0 82 59 29.0	100.000 200	8.2 383	77.3	23.3	-43.8*<
229D Detroit	637932	APP	C MI	133.1 313.1	6.8 BNPFT20030317HOI	42 24 21.9 83 06 44.3	0.010	0.2 341	6.7 Radio Assist Ministry, Inc	3.6	0.0<
232D Holly	W232BH	LIC	C MI	310.1 129.9	40.7 BLFT20070625ABO	42 40 59.0 83 33 11.0	0.007	20.5 426	6.2 Educational Media Foundation	10.0	0.5
231B Jackson	WVIC	LIC	CN MI	267.6 86.6	123.1 BLH19830711AJ	42 23 32.0 84 40 00.0	40.000 168	78.0 457	65.4 Midwest Communications, In	27.8	21.2
232L1 Flint	WKUF-LP	LIC	N MI	325.1 144.8	76.9 BLL20041118AAE	43 00 52.0 83 42 50.0	0.100 29	18.6 262	5.6 Kettering University	45.2	27.3
229D New Baltimore	637945	APP	C MI	49.8 230.1	46.6 BNPFT20030317HRL	42 43 02.9 82 44 15.3	0.019	0.3 278	6.8 Radio Assist Ministry, Inc	28.8	39.1
233B Port Clinton	WXKR	LIC	ZCX OH	184.4 4.4	105.5 BLH20080910ACQ	41 30 03.0 83 16 16.0	30.000 188	49.8 374	44.7 Cumulus Licensing Llc	43.0	34.1
231D Port Huron	635316	APP	C MI	44.5 224.9	81.3 BNPFT20030317HRY	42 58 01.9 82 28 25.3	0.027	9.4 270	6.6 Radio Assist Ministry, Inc	54.4	48.7
235B East Lansing	WMMQ	LIC	CN MI	281.4 100.5	116.1 BLH19911106KF	42 38 45.0 84 33 38.0	50.000 150	6.0 421	65.0 Radio License Holding Cbc	93.0	49.7

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
Contour distances are on direct line to and from reference station. Reference Zone = 1, Co to 3rd adjacent.  
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
"\*"affixed to 'IN' or 'OUT' values = site inside protected contour.  
< = Contour Overlap  
Reference station has protected zone issue: Canada- AM tower







Prop Model: FCC

BROADCAST TECHNICAL CONSULTANTS

US - Canadian Border

**EXHIBIT B3**  
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Scale 1:900,000

A horizontal number line representing distance in kilometers. It has major tick marks at 0, 15, 30, and 45. The unit 'km' is written at the right end of the line.



**W230BI Proposed - Detroit, MI**

Latitude: 42-26-53 N / Longitude: 083-10-23 W

ERP: 0.099 kW / Channel: 232 / 94.3 MHz

AMSLL Height: 476.1 m

Horiz. Pattern: Directional

Prop Model: FCC

43-00-00 N

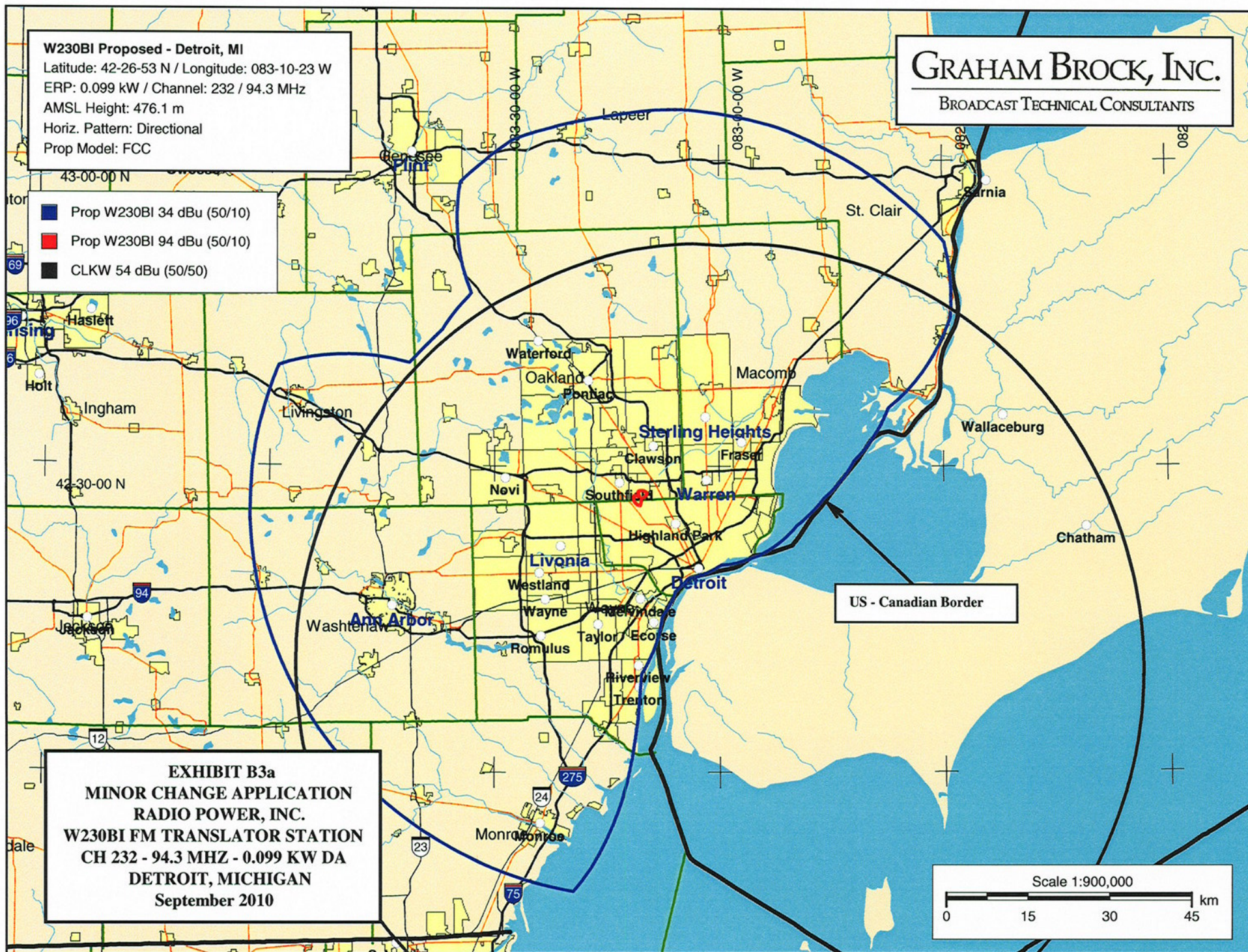
■ Prop W230BI 34 dBu (50/10)

■ Prop W230BI 94 dBu (50/10)

■ CLKW 54 dBu (50/50)

**GRAHAM BROCK, INC.**

BROADCAST TECHNICAL CONSULTANTS



US - Canadian Border

**EXHIBIT B3a**

**MINOR CHANGE APPLICATION  
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Scale 1:900,000

0 15 30 45 km



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**EXHIBIT B4**

Predicted contour:

N. Lat. = 42 26 53 - Tabulated Protected and Interfering Contour Data  
W. Lng. = 83 10 23 - W230BI FM Translator - Detroit, Michigan

HAAT and Distance to Contour - NGDC 30 Second terrain database

Azi.	HAAT	ERP kW	dBk	Field	60-F5	34-F1	40-F1	48-F1	54-F1	94-F1	100-F1	118.3 F1
000	262.0	0.0990	-10.04	1.000	16.70	70.10	53.94	35.33	24.97	1.39	0.70	0.08
010	271.6	0.0990	-10.04	1.000	17.03	71.01	54.76	35.98	25.39	1.39	0.70	0.08
020	279.2	0.0990	-10.04	1.000	17.29	71.72	55.41	36.48	25.72	1.39	0.70	0.08
030	281.3	0.0990	-10.04	1.000	17.36	71.92	55.59	36.62	25.82	1.39	0.70	0.08
040	284.2	0.0990	-10.04	1.000	17.46	72.19	55.83	36.81	25.94	1.39	0.70	0.08
050	285.8	0.0990	-10.04	1.000	17.51	72.34	55.97	36.91	26.01	1.39	0.70	0.08
060	286.2	0.0557	-12.54	0.750	15.06	65.28	49.73	31.81	22.59	1.04	0.52	0.08
070	285.2	0.0121	-19.16	0.350	10.38	48.10	34.54	21.75	14.51	0.49	0.24	0.06
080	285.2	0.0052	-22.81	0.230	8.28	39.54	27.84	17.23	11.86	0.32	0.16	0.03
090	284.5	0.0027	-25.69	0.165	6.79	33.41	23.65	14.06	10.05	0.23	0.12	0.02
100	283.9	0.0015	-28.11	0.125	5.68	28.90	20.50	12.30	8.65	0.17	0.09	0.01
110	283.7	0.0010	-30.04	0.100	4.86	25.92	18.10	11.04	7.60	0.14	0.07	0.01
120	283.1	0.0006	-32.54	0.075	3.94	22.47	15.11	9.53	6.37	0.10	0.05	0.01
130	282.6	0.0003	-35.24	0.055	3.12	19.05	12.87	8.01	5.18	0.08	0.04	0.01
140	283.6	0.0002	-36.06	0.050	2.90	18.08	12.32	7.59	4.85	0.07	0.03	0.00
150	284.7	0.0002	-36.98	0.045	2.67	17.01	11.74	7.14	4.49	0.06	0.03	0.00
160	286.1	0.0002	-36.06	0.050	2.90	18.16	12.37	7.62	4.87	0.07	0.03	0.00
170	287.6	0.0005	-33.14	0.070	3.76	21.87	14.59	9.26	6.14	0.10	0.05	0.00
180	287.9	0.0022	-26.52	0.150	6.43	31.95	22.68	13.51	9.62	0.21	0.10	0.01
190	287.3	0.0990	-10.04	1.000	17.56	72.48	56.10	37.01	26.08	1.39	0.70	0.01
200	287.3	0.0990	-10.04	1.000	17.56	72.48	56.10	37.01	26.08	1.39	0.70	0.08
210	286.6	0.0990	-10.04	1.000	17.54	72.41	56.03	36.96	26.04	1.39	0.70	0.08
220	286.9	0.0990	-10.04	1.000	17.55	72.44	56.06	36.98	26.06	1.39	0.70	0.08
230	286.2	0.0990	-10.04	1.000	17.52	72.37	56.00	36.94	26.03	1.39	0.70	0.08
240	285.3	0.0990	-10.04	1.000	17.49	72.29	55.93	36.88	25.99	1.39	0.70	0.08
250	283.7	0.0990	-10.04	1.000	17.44	72.14	55.79	36.78	25.92	1.39	0.70	0.08
260	280.9	0.0990	-10.04	1.000	17.35	71.88	55.55	36.59	25.80	1.39	0.70	0.08
270	277.1	0.0990	-10.04	1.000	17.22	71.53	55.23	36.34	25.63	1.39	0.70	0.08
280	273.5	0.0990	-10.04	1.000	17.10	71.19	54.93	36.11	25.48	1.39	0.70	0.08
290	266.4	0.0990	-10.04	1.000	16.86	70.52	54.32	35.63	25.16	1.39	0.70	0.08
300	259.0	0.0160	-17.96	0.402	10.59	48.96	35.31	22.27	14.77	0.56	0.28	0.03
310	257.5	0.0140	-18.54	0.376	10.22	47.39	34.02	21.46	14.24	0.52	0.26	0.03
320	251.8	0.0160	-17.96	0.402	10.44	48.34	34.82	21.97	14.55	0.56	0.28	0.03
330	252.3	0.0784	-11.06	0.890	15.36	66.22	50.62	32.63	23.17	1.24	0.62	0.08
340	251.8	0.0990	-10.04	1.000	16.34	69.10	53.06	34.65	24.52	1.39	0.70	0.08
350	253.4	0.0990	-10.04	1.000	16.39	69.26	53.20	34.75	24.59	1.39	0.70	0.08

AMSL= 476.1 M