

Exhibit 13.1 - Photographic Topographical Map Showing Proposed Site

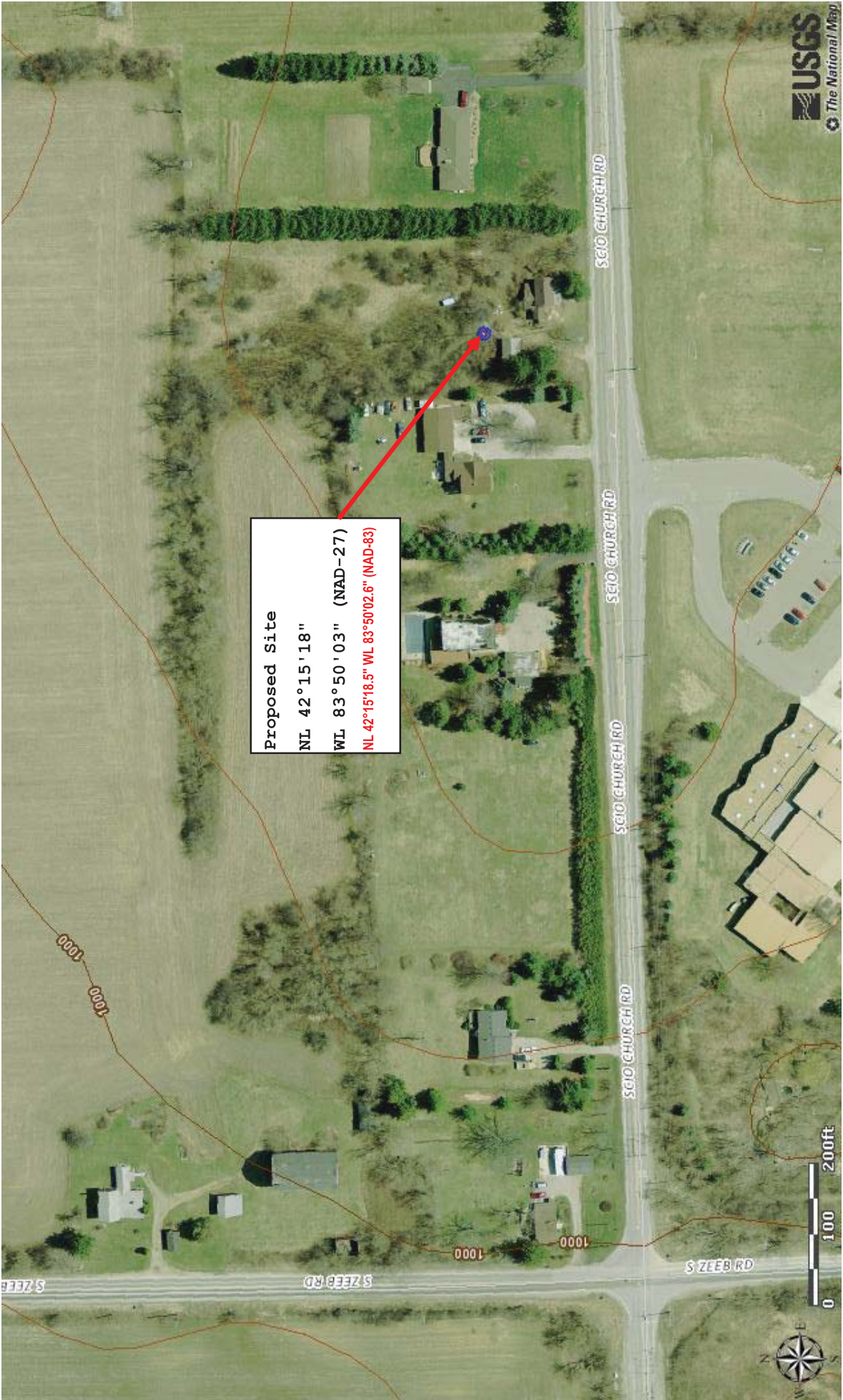


Exhibit 13.2

Vertical Plan of Antenna System

The site is located at 5330 Scio Church Road,
city of Ann Arbor, Washtenau County, Michigan.

Site Location (NAD 27)

NL: 42° 15' 18"

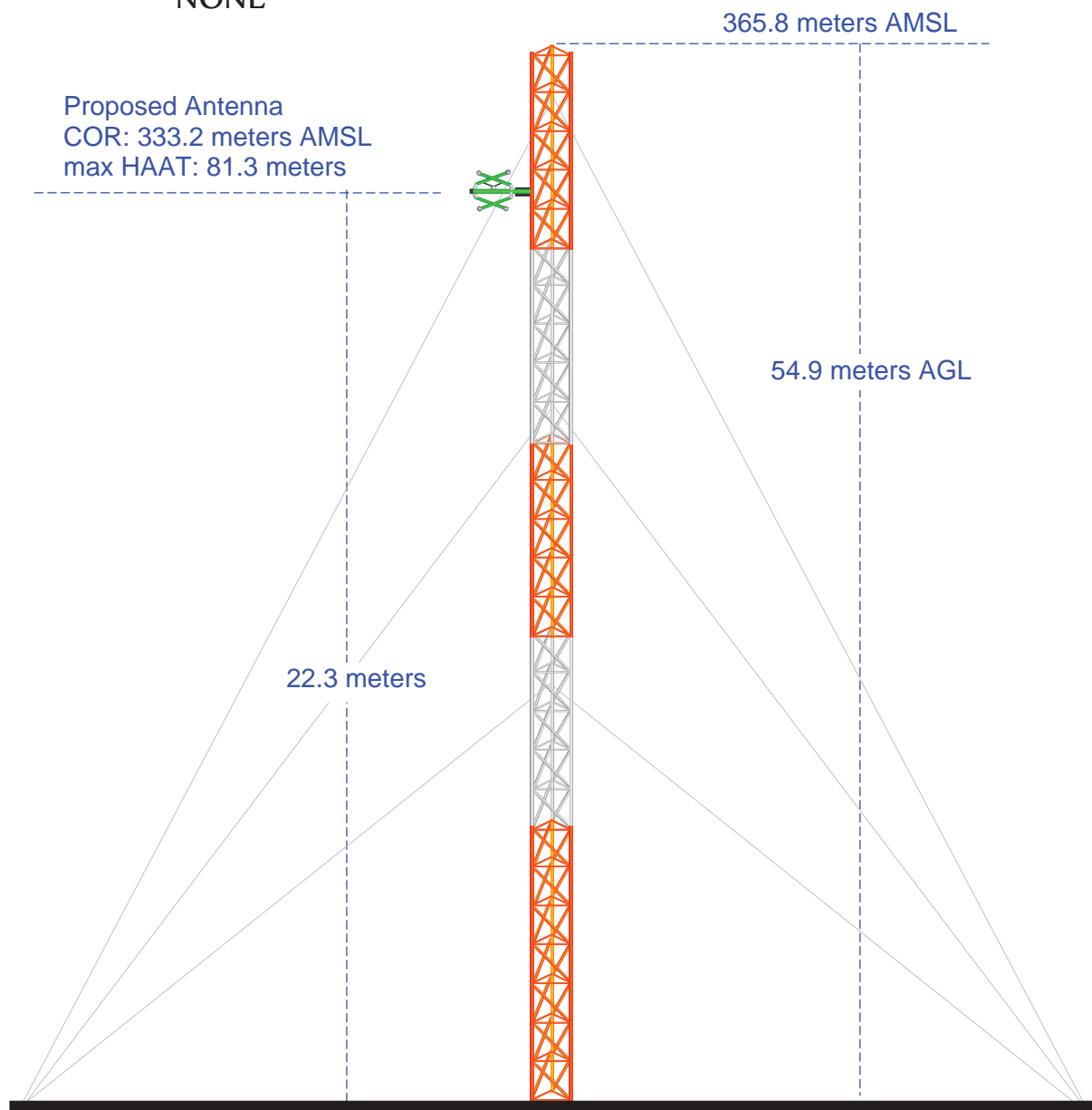
WL: 83° 50' 03"

(42-15-18.5 NL; 83-50-02.6 WL NAD1983)

NOTE: Existing Tower Construction

Antenna Structure Registration No.

NONE



Ground Elevation = 310.9 m AMSL
Drawing is not to Scale

MUNN-REESE, INC.
Broadcast Engineering Consultants
Coldwater, MI 49036

Exhibit 13.3 - Proposed vs Short Form Service Contour Study

Short Form.A
BNPFT20030314ANQ
Latitude: 42-17-39 N
Longitude: 083-52-52 W
ERP: 0.093 kW
Channel: 300
Frequency: 107.9 MHz
AMSL Height: 304.0 m
Elevation: 277.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

New.A
Dexter, MI
Latitude: 42-15-18 N
Longitude: 083-50-03 W
ERP: 0.038 kW
Channel: 300
Frequency: 107.9 MHz
AMSL Height: 333.0 m
Elevation: 303.56 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None
2010 Census Data:
60 dBu Contour:
Total Population: 43,570
Total Area: 131 sq. km

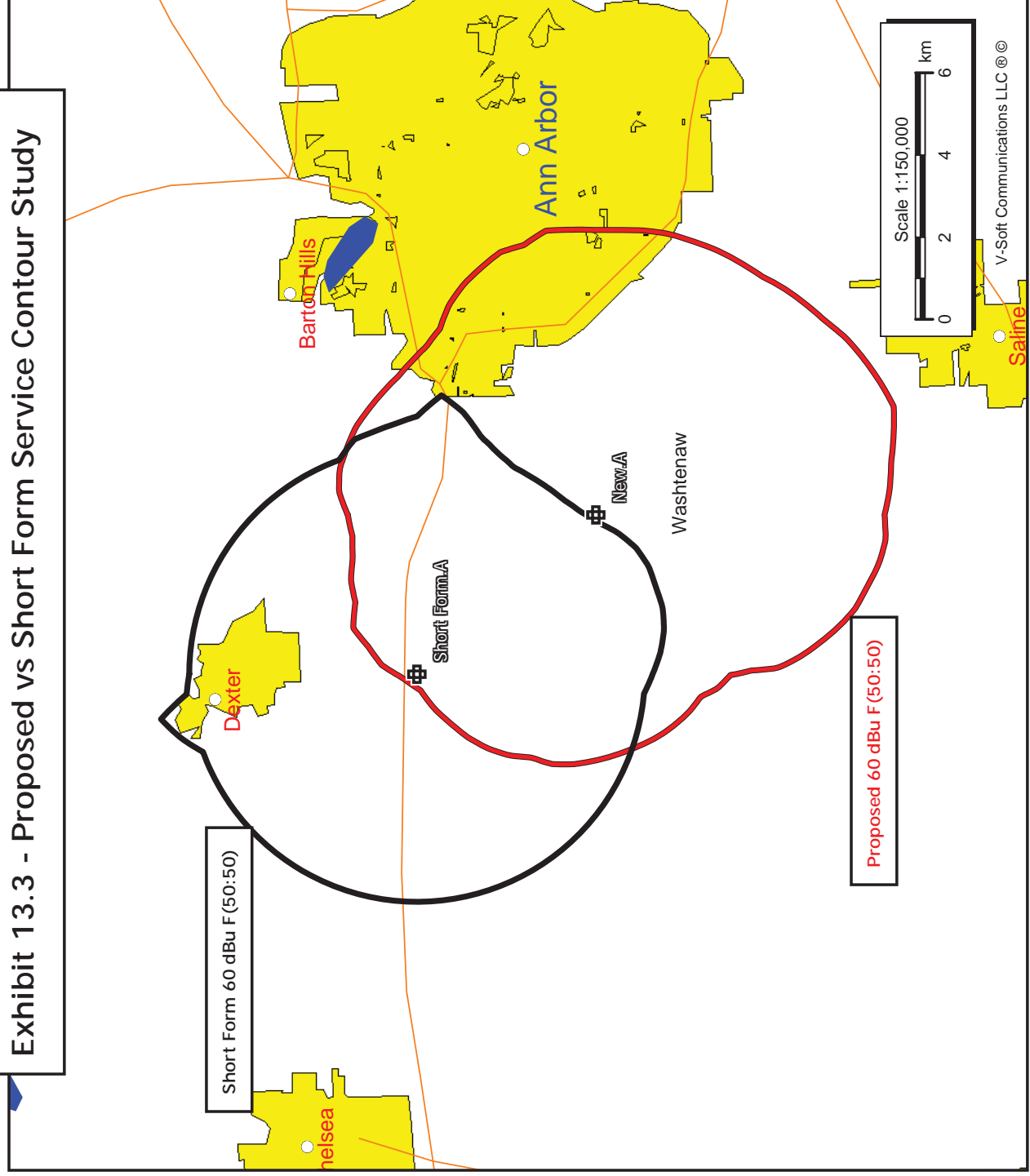


Exhibit 13.4 - Primary vs Proposed Service Contour Study

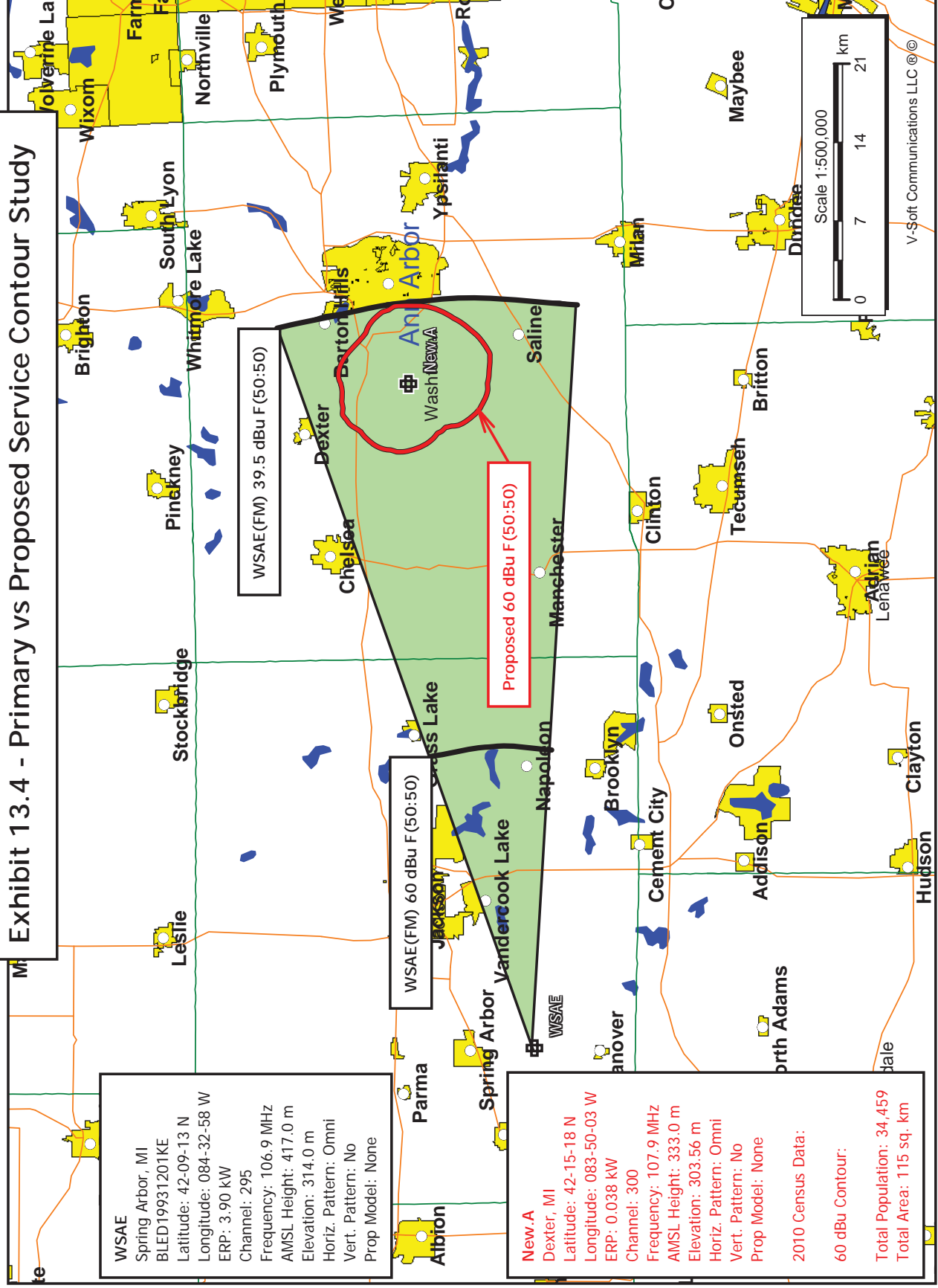


Exhibit 13.5

Tabulation of Proposed Allocation

Munn-Reese, Inc.
Coldwater, MI 49036

Spring Arbor University Communications, Inc.											
REFERENCE		CH#	300D	-	107.9 MHz, Pwr= 0.038 kw, HAAT= 61.3 M, COR= 333 M				DISPLAY DATES		
42 15 18.0 N.						Average Protected F(50-50)= 6.32 km			DATA 08-16-13		
83 50 03.0 W.						Omni-directional			SEARCH 08-16-13		
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR(kw)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT(M)	COR(M)	LICENSEE	(Overlap	in km)
300B	WCRZ	LIC _CN		14.5	83.32	42 58 49.0	50.000	126.5	52.3	-49.5*<	1.6
Flint		MI		194.7	BLH4733	83 34 40.0	101	352	Townsquare Media Of Flint,		
300A	AL9059	AL _		84.7	68.36	42 18 30.0	6.000	87.4	38.0	-25.7*<	-0.9<
Windsor		ON		265.3		83 00 30.0	100	283			
300A	NEW	PRO ?CN		83.7	65.06	42 18 59.0	6.000	82.7	34.6	-24.2*<	-0.7<
Windsor		ON		264.2		83 02 58.0	74	258			
300A	NEW	PRO ?HN		83.7	65.06	42 18 59.0	6.000	82.7	34.6	-24.2*<	-0.7<
Windsor		ON		264.2		83 02 58.0	74	258			
300D	638052	APP _C_		318.4	5.82	42 17 39.0	0.093	18.2	5.5	-18.5*<	-20.3<
Dexter		MI		138.4	BNPFT20030314ANQ	83 52 52.0	27	304	Spring Arbor University Co		
298B	WGPR	LIC _CX		79.5	64.24	42 21 28.0	50.000	5.6	62.3	52.0	1.1
Detroit		MI		260.0	BLH20040422ABP	83 03 55.0	124	316	wgpr, Inc.		
300D	WVAC-FM	LIC _CX		205.3	43.99	41 53 49.0	0.087	17.8	5.4	19.9	17.5
Adrian		MI		25.1	BLED20090327AHW	84 03 40.0	26	271	Adrian College		
300L1	WMLZ-LP	LIC _		159.6	57.91	41 46 00.0	0.100	18.6	5.6	31.8	27.1
Temperance		MI		339.7	BLL20020306ABI	83 35 25.0	19	212	Bedford Public Schools		
299B	WRKR	LIC _C_		264.1	124.78	42 07 44.0	50.000	77.4	64.4	41.6	48.8
Portage		MI		83.0	BLH19980730KB	85 20 22.0	148	421	Cumulus Licensing Llc		
299A	WPFX-FM	LIC ZC_		168.4	93.88	41 25 39.0	5.200	44.0	28.6	42.8	55.2
Luckey		OH		348.6	BLH20100914AGO	83 36 30.0	107	305	Toledo Radio, Llc		
297A	WJUC	LIC _CN		184.6	68.41	41 38 30.0	3.000	2.2	23.2	59.5	44.8
Swanton		OH		4.6	BLH19970314KA	83 54 03.0	100	309	Welch Communications, Inc.		

Terrain database is NED 03 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= East Zone, Co to 3rd adjacent.
All separation margins (if shown) include rounding
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

Blue Highlighted Text denotes the Auction 83 Application facility to be modified by this Form 349 Long Form filing. This facility need not be protected.

Green Highlighted Text denotes supplemental contour protection studies towards select facilities as included in **Exhibit(s) 13.6(a) - 13.6(b)**.

Yellow Highlighted Text denotes protection toward multiple International/Canadian facilities. Full protection has been afforded all Canadian concerns over Canadian soil as noted in **Exhibit 13.7** as the proposed Translator 34 dBu F(50:10) contour will not enter Canadian soil. A map of the proposed 34 dBu F(50:10) contour has been included in **Exhibit 13.7**.

Spring Arbor University Communications, Inc.

FMCommander Single Allocation Study - 08-16-2013 - NED 03 SEC

New's Overlaps (In= -49.47 km, Out= 1.57 km)

New CH 300 D

Lat= 42 15 18.0, Lng= 83 50 03.0
 0.038 kW 61.3 M HAAT, 333 M COR
 Prot.= 60 dBu, Intef.= 34 dBu

WCRZ CH 300 B BLH4733

Lat= 42 58 49.0, Lng= 83 34 40.0
 50.0 kW 101 M HAAT, 352 M COR
 Prot.= 54 dBu, Intef.= 40 dBu

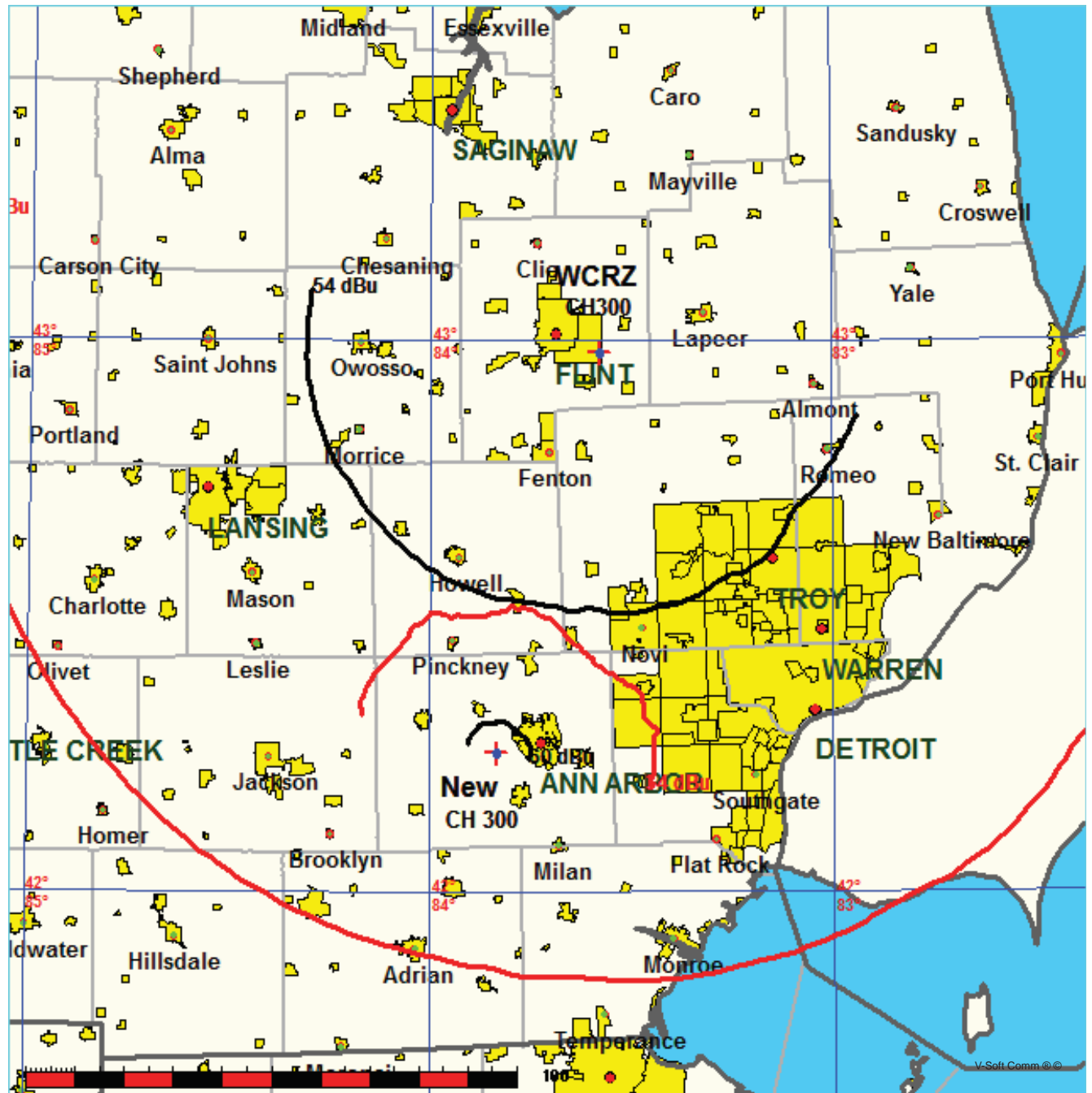


Exhibit 13.6(a) - Protection to WCRZ(FM) - Flint, MI

08-16-2013

Terrain Data: NED 03 SEC

FMOver Analysis

New

WCRZ BLH4733

Channel = 300D
Max ERP = 0.038 kW
RCAMSL = 333 M
N. Lat. 42 15 18.0
W. Lng. 83 50 03.0
Protected
60 dBu

Channel = 300B
Max ERP = 50 kW
RCAMSL = 352 M
N. Lat. 42 58 49.0
W. Lng. 83 34 40.0
Interfering
40 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
329.0	000.0380	0063.0	006.4	198.0	050.0000	0079.7	079.0	50.29*	47.97
330.0	000.0380	0062.8	006.4	197.9	050.0000	0079.6	078.9	50.31*	48.04
331.0	000.0380	0063.3	006.4	197.9	050.0000	0079.6	078.8	50.34*	48.13
332.0	000.0380	0064.7	006.5	197.9	050.0000	0079.5	078.7	50.37*	48.25
333.0	000.0380	0066.1	006.5	197.8	050.0000	0079.5	078.5	50.40*	48.37
334.0	000.0380	0066.1	006.5	197.8	050.0000	0079.5	078.5	50.42*	48.44
335.0	000.0380	0065.3	006.5	197.7	050.0000	0079.4	078.4	50.43*	48.49
336.0	000.0380	0064.6	006.5	197.6	050.0000	0079.4	078.4	50.45*	48.54
337.0	000.0380	0063.2	006.4	197.5	050.0000	0079.4	078.3	50.45*	48.56
338.0	000.0380	0060.4	006.3	197.4	050.0000	0079.4	078.4	50.44*	48.53
339.0	000.0380	0059.7	006.2	197.3	050.0000	0079.3	078.3	50.45*	48.56
340.0	000.0380	0058.2	006.2	197.2	050.0000	0079.2	078.3	50.45*	48.55
341.0	000.0380	0056.3	006.1	197.1	050.0000	0079.2	078.3	50.44*	48.52
342.0	000.0380	0055.9	006.0	197.1	050.0000	0079.1	078.3	50.45*	48.56
343.0	000.0380	0056.1	006.1	197.0	050.0000	0079.1	078.2	50.47*	48.62
344.0	000.0380	0056.3	006.1	196.9	050.0000	0079.1	078.1	50.48*	48.69
345.0	000.0380	0055.4	006.0	196.8	050.0000	0079.1	078.1	50.48*	48.69
346.0	000.0380	0055.0	006.0	196.8	050.0000	0079.0	078.1	50.49*	48.72
347.0	000.0380	0054.6	006.0	196.7	050.0000	0079.0	078.1	50.50*	48.75
348.0	000.0380	0054.2	006.0	196.6	050.0000	0079.0	078.0	50.51*	48.78
349.0	000.0380	0053.8	005.9	196.5	050.0000	0079.0	078.0	50.52*	48.81
350.0	000.0380	0053.1	005.9	196.5	050.0000	0079.0	078.0	50.52*	48.83
351.0	000.0380	0052.9	005.9	196.4	050.0000	0079.0	078.0	50.53*	48.86
352.0	000.0380	0052.5	005.9	196.3	050.0000	0079.0	077.9	50.54*	48.88
353.0	000.0380	0052.0	005.8	196.2	050.0000	0079.0	077.9	50.54*	48.89
354.0	000.0380	0051.7	005.8	196.2	050.0000	0078.9	077.9	50.54*	48.90
355.0	000.0380	0052.0	005.8	196.1	050.0000	0078.9	077.8	50.55*	48.95
356.0	000.0380	0052.9	005.9	196.0	050.0000	0078.8	077.8	50.57*	49.02
357.0	000.0380	0053.4	005.9	196.0	050.0000	0078.7	077.7	50.58*	49.07
358.0	000.0380	0054.0	005.9	195.9	050.0000	0078.6	077.6	50.59*	49.11
359.0	000.0380	0053.9	005.9	195.8	050.0000	0078.5	077.6	50.59*	49.10
000.0	000.0380	0053.4	005.9	195.8	050.0000	0078.3	077.6	50.59*	49.08
001.0	000.0380	0054.1	006.0	195.7	050.0000	0078.2	077.5	50.60*	49.12
002.0	000.0380	0055.7	006.0	195.6	050.0000	0078.1	077.4	50.62*	49.21
003.0	000.0380	0055.7	006.0	195.6	050.0000	0078.0	077.4	50.62*	49.21
004.0	000.0380	0056.1	006.1	195.5	050.0000	0077.9	077.4	50.63*	49.24

Exhibit 13.6(a) - Protection to WCRZ(FM) - Flint, MI

FMOver Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
005.0	000.0380	0058.1	006.2	195.4	050.0000	0077.8	077.2	50.65* 49.34
006.0	000.0380	0059.7	006.2	195.4	050.0000	0077.8	077.1	50.68* 49.43
007.0	000.0380	0059.4	006.2	195.3	050.0000	0077.8	077.1	50.68* 49.43
008.0	000.0380	0058.1	006.2	195.2	050.0000	0077.8	077.2	50.66* 49.38
009.0	000.0380	0058.6	006.2	195.1	050.0000	0077.8	077.2	50.67* 49.42
010.0	000.0380	0059.4	006.2	195.0	050.0000	0077.8	077.1	50.69* 49.46
011.0	000.0380	0059.9	006.3	195.0	050.0000	0077.7	077.1	50.69* 49.49
012.0	000.0380	0059.8	006.2	194.9	050.0000	0077.7	077.1	50.69* 49.49
013.0	000.0380	0059.5	006.2	194.8	050.0000	0077.7	077.1	50.69* 49.48
014.0	000.0380	0059.9	006.3	194.7	050.0000	0077.7	077.1	50.69* 49.49
015.0	000.0380	0059.3	006.2	194.6	050.0000	0077.6	077.1	50.68* 49.45
016.0	000.0380	0058.4	006.2	194.5	050.0000	0077.6	077.1	50.67* 49.40
017.0	000.0380	0057.7	006.1	194.5	050.0000	0077.6	077.2	50.66* 49.36
018.0	000.0380	0057.1	006.1	194.4	050.0000	0077.6	077.2	50.65* 49.33
019.0	000.0380	0056.9	006.1	194.3	050.0000	0077.6	077.2	50.64* 49.31
020.0	000.0380	0057.3	006.1	194.2	050.0000	0077.6	077.2	50.65* 49.32
021.0	000.0380	0057.7	006.1	194.1	050.0000	0077.7	077.2	50.66* 49.35
022.0	000.0380	0057.9	006.2	194.1	050.0000	0077.8	077.2	50.66* 49.36
023.0	000.0380	0057.2	006.1	194.0	050.0000	0077.8	077.3	50.65* 49.32
024.0	000.0380	0056.2	006.1	193.9	050.0000	0077.9	077.3	50.63* 49.26
025.0	000.0380	0055.1	006.0	193.9	050.0000	0078.0	077.4	50.62* 49.20
026.0	000.0380	0055.0	006.0	193.8	050.0000	0078.0	077.4	50.61* 49.18
027.0	000.0380	0054.3	006.0	193.7	050.0000	0078.0	077.5	50.60* 49.12
028.0	000.0380	0054.3	006.0	193.6	050.0000	0078.0	077.5	50.59* 49.09
029.0	000.0380	0053.5	005.9	193.6	050.0000	0078.0	077.6	50.57* 49.03
030.0	000.0380	0052.4	005.9	193.5	050.0000	0078.0	077.7	50.55* 48.94
031.0	000.0380	0051.3	005.8	193.4	050.0000	0078.0	077.8	50.53* 48.85
032.0	000.0380	0050.4	005.8	193.4	050.0000	0078.0	077.8	50.50* 48.77
033.0	000.0380	0050.1	005.7	193.3	050.0000	0078.0	077.9	50.49* 48.71
034.0	000.0380	0050.1	005.7	193.3	050.0000	0077.9	077.9	50.48* 48.68
035.0	000.0380	0050.5	005.8	193.2	050.0000	0077.9	077.9	50.47* 48.65
036.0	000.0380	0050.3	005.7	193.1	050.0000	0077.9	078.0	50.46* 48.59
037.0	000.0380	0050.1	005.7	193.1	050.0000	0077.8	078.0	50.44* 48.54
038.0	000.0380	0050.7	005.8	193.0	050.0000	0077.7	078.1	50.43* 48.51
039.0	000.0380	0050.7	005.8	192.9	050.0000	0077.7	078.1	50.42* 48.46
040.0	000.0380	0049.7	005.7	192.9	050.0000	0077.7	078.2	50.39* 48.36
041.0	000.0380	0049.2	005.7	192.8	050.0000	0077.7	078.3	50.37* 48.29
042.0	000.0380	0050.0	005.7	192.7	050.0000	0077.6	078.3	50.37* 48.27
043.0	000.0380	0050.1	005.7	192.7	050.0000	0077.6	078.3	50.35* 48.22
044.0	000.0380	0049.4	005.7	192.6	050.0000	0077.5	078.4	50.33* 48.12
045.0	000.0380	0049.7	005.7	192.5	050.0000	0077.5	078.4	50.32* 48.08
046.0	000.0380	0050.6	005.8	192.5	050.0000	0077.5	078.5	50.31* 48.05
047.0	000.0380	0049.0	005.7	192.4	050.0000	0077.5	078.6	50.28* 47.92
048.0	000.0380	0049.0	005.7	192.4	050.0000	0077.4	078.7	50.26* 47.86
049.0	000.0380	0049.3	005.7	192.3	050.0000	0077.4	078.7	50.25* 47.81
050.0	000.0380	0050.1	005.7	192.2	050.0000	0077.4	078.7	50.24* 47.78
051.0	000.0380	0051.6	005.8	192.1	050.0000	0077.3	078.7	50.24* 47.78
052.0	000.0380	0051.6	005.8	192.1	050.0000	0077.3	078.8	50.22* 47.71
053.0	000.0380	0051.6	005.8	192.0	050.0000	0077.3	078.8	50.20* 47.65
054.0	000.0380	0052.2	005.9	192.0	050.0000	0077.3	078.9	50.19* 47.60
055.0	000.0380	0053.3	005.9	191.9	050.0000	0077.3	078.9	50.18* 47.57

Exhibit 13.6(a) - Protection to WCRZ(FM) - Flint, MI

08-16-2013 Terrain Data: NED 03 SEC FMOver Analysis

WCRZ BLH4733

New

Channel = 300B
Max ERP = 50 kW
RCAMSL = 352 M
N. Lat. 42 58 49.0
W. Lng. 83 34 40.0
Protected
54 dBu

Channel = 300D
Max ERP = 0.038 kW
RCAMSL = 333 M
N. Lat. 42 15 18.0
W. Lng. 83 50 03.0
Interfering
34 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
150.0	050.0000	0077.3	052.2	053.0	000.0380	0051.6	059.0	22.46	
151.0	050.0000	0077.1	052.2	052.8	000.0380	0051.7	058.0	22.74	
152.0	050.0000	0077.1	052.2	052.6	000.0380	0051.7	057.1	23.00	
153.0	050.0000	0077.1	052.2	052.5	000.0380	0051.6	056.2	23.25	
154.0	050.0000	0077.7	052.3	052.4	000.0380	0051.6	055.3	23.52	
155.0	050.0000	0079.1	052.6	052.6	000.0380	0051.7	054.3	23.80	
156.0	050.0000	0079.7	052.8	052.5	000.0380	0051.6	053.4	24.07	
157.0	050.0000	0080.3	052.9	052.4	000.0380	0051.6	052.5	24.34	
158.0	050.0000	0080.8	053.0	052.3	000.0380	0051.6	051.5	24.62	
159.0	050.0000	0081.2	053.1	052.1	000.0380	0051.6	050.6	24.88	
160.0	050.0000	0080.1	052.9	051.5	000.0380	0051.6	049.8	25.13	
161.0	050.0000	0080.6	053.0	051.3	000.0380	0051.7	048.9	25.40	
162.0	050.0000	0081.4	053.2	051.1	000.0380	0051.7	048.0	25.67	
163.0	050.0000	0081.3	053.1	050.7	000.0380	0051.0	047.1	25.84	
164.0	050.0000	0080.3	052.9	050.0	000.0380	0050.1	046.4	25.94	
165.0	050.0000	0080.2	052.9	049.5	000.0380	0049.6	045.5	26.13	
166.0	050.0000	0079.7	052.8	048.9	000.0380	0049.1	044.8	26.30	
167.0	050.0000	0079.3	052.7	048.2	000.0380	0048.9	044.0	26.51	
168.0	050.0000	0080.1	052.9	047.8	000.0380	0049.0	043.1	26.82	
169.0	050.0000	0080.8	053.0	047.4	000.0380	0049.0	042.2	27.12	
170.0	050.0000	0080.5	053.0	046.6	000.0380	0049.6	041.5	27.46	
171.0	050.0000	0080.5	053.0	045.9	000.0380	0050.6	040.7	27.90	
172.0	050.0000	0080.4	052.9	045.1	000.0380	0049.8	040.0	28.04	
173.0	050.0000	0080.6	053.0	044.4	000.0380	0049.5	039.2	28.27	
174.0	050.0000	0080.4	053.0	043.5	000.0380	0049.4	038.6	28.51	
175.0	050.0000	0079.8	052.8	042.4	000.0380	0050.3	038.0	28.87	
176.0	050.0000	0079.2	052.7	041.3	000.0380	0049.5	037.4	28.95	
177.0	050.0000	0079.1	052.7	040.3	000.0380	0049.5	036.8	29.20	
178.0	050.0000	0078.7	052.6	039.1	000.0380	0050.6	036.2	29.60	

Exhibit 13.6(a) - Protection to WCRZ(FM) - Flint, MI

FMOver Analysis

Page # 4

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
179.0	050.0000	0077.1	052.2	037.6	000.0380	0050.5	035.9	29.70
180.0	050.0000	0076.3	052.0	036.3	000.0380	0050.3	035.5	29.83
181.0	050.0000	0075.3	051.8	034.9	000.0380	0050.5	035.2	29.99
182.0	050.0000	0074.7	051.6	033.5	000.0380	0049.9	034.8	30.05
183.0	050.0000	0074.9	051.7	032.3	000.0380	0050.4	034.3	30.32
184.0	050.0000	0076.1	051.9	031.2	000.0380	0051.1	033.6	30.73
185.0	050.0000	0077.4	052.3	030.0	000.0380	0052.4	033.0	31.23
186.0	050.0000	0078.6	052.5	028.7	000.0380	0053.7	032.3	31.69
187.0	050.0000	0078.7	052.6	027.2	000.0380	0054.2	032.0	31.94
188.0	050.0000	0078.5	052.5	025.7	000.0380	0054.9	031.7	32.16
189.0	050.0000	0077.0	052.2	023.9	000.0380	0056.2	031.8	32.32
190.0	050.0000	0075.5	051.8	022.2	000.0380	0057.8	031.9	32.49
191.0	050.0000	0076.2	052.0	020.6	000.0380	0057.5	031.6	32.59
192.0	050.0000	0077.3	052.2	019.1	000.0380	0056.9	031.2	32.69
193.0	050.0000	0077.8	052.3	017.4	000.0380	0057.4	031.0	32.86
194.0	050.0000	0077.8	052.4	015.8	000.0380	0058.5	031.0	33.04
195.0	050.0000	0077.7	052.3	014.1	000.0380	0059.9	031.0	33.23
196.0	050.0000	0078.7	052.6	012.4	000.0380	0059.6	030.8	33.28
197.0	050.0000	0079.1	052.6	010.7	000.0380	0059.9	030.8	33.32
198.0	050.0000	0079.7	052.8	008.9	000.0380	0058.6	030.8	33.14
199.0	050.0000	0080.5	053.0	007.2	000.0380	0059.0	030.8	33.21
200.0	050.0000	0081.3	053.1	005.4	000.0380	0058.9	030.8	33.18
201.0	050.0000	0082.4	053.4	003.7	000.0380	0055.9	030.8	32.73
202.0	050.0000	0083.7	053.7	001.9	000.0380	0055.5	030.8	32.67
203.0	050.0000	0084.8	053.9	000.1	000.0380	0053.4	031.0	32.27
204.0	050.0000	0085.5	054.1	358.4	000.0380	0054.0	031.2	32.26
205.0	050.0000	0085.6	054.1	356.8	000.0380	0053.2	031.6	31.95
206.0	050.0000	0086.0	054.2	355.3	000.0380	0052.3	032.0	31.62
207.0	050.0000	0086.5	054.3	353.8	000.0380	0051.7	032.4	31.35
208.0	050.0000	0087.2	054.4	352.2	000.0380	0052.4	032.8	31.29
209.0	050.0000	0088.1	054.6	350.7	000.0380	0052.9	033.2	31.18
210.0	050.0000	0088.8	054.8	349.3	000.0380	0053.4	033.7	31.06
211.0	050.0000	0089.3	054.9	348.0	000.0380	0054.1	034.3	30.93
212.0	050.0000	0089.8	055.0	346.8	000.0380	0054.8	034.9	30.79
213.0	050.0000	0090.5	055.1	345.5	000.0380	0055.1	035.5	30.59
214.0	050.0000	0091.6	055.4	344.2	000.0380	0056.1	036.1	30.51
215.0	050.0000	0092.6	055.6	343.0	000.0380	0056.2	036.7	30.26
216.0	050.0000	0092.3	055.5	342.2	000.0380	0056.1	037.5	29.93
217.0	050.0000	0092.7	055.6	341.3	000.0380	0056.1	038.2	29.64
218.0	050.0000	0093.3	055.7	340.3	000.0380	0057.5	039.0	29.55
219.0	050.0000	0094.1	055.9	339.4	000.0380	0059.2	039.7	29.48
220.0	050.0000	0093.8	055.8	338.8	000.0380	0059.7	040.6	29.21
221.0	050.0000	0094.3	055.9	338.0	000.0380	0060.4	041.4	28.99
222.0	050.0000	0094.7	056.0	337.3	000.0380	0062.3	042.3	28.89
223.0	050.0000	0095.5	056.2	336.6	000.0380	0064.0	043.1	28.78
224.0	050.0000	0095.7	056.2	336.1	000.0380	0064.6	044.0	28.53
225.0	050.0000	0096.4	056.3	335.4	000.0380	0064.9	044.8	28.26
226.0	050.0000	0097.2	056.5	334.8	000.0380	0065.4	045.7	28.01
227.0	050.0000	0097.3	056.5	334.4	000.0380	0065.8	046.6	27.73
228.0	050.0000	0097.7	056.6	334.0	000.0380	0066.1	047.6	27.45
229.0	050.0000	0097.9	056.6	333.7	000.0380	0066.1	048.5	27.14

Spring Arbor University Communications, Inc.

Protection to WGPR(FM) - Detroit, MI

FMCommander Single Allocation Study - 08-16-2013 - NED 03 SEC

New's Overlaps (In= 52.01 km, Out= 1.13 km)

New CH 300 D

Lat= 42 15 18.0, Lng= 83 50 03.0
 0.038 kW 61.3 M HAAT, 333 M COR
 Prot.= 60 dBu, Intef.= 94 dBu

WGPR CH 298 B BLH20040422ABP

Lat= 42 21 28.0, Lng= 83 03 55.0
 50.0 kW 123.5 M HAAT, 315.5 M COR
 Prot.= 54 dBu, Intef.= 100 dBu

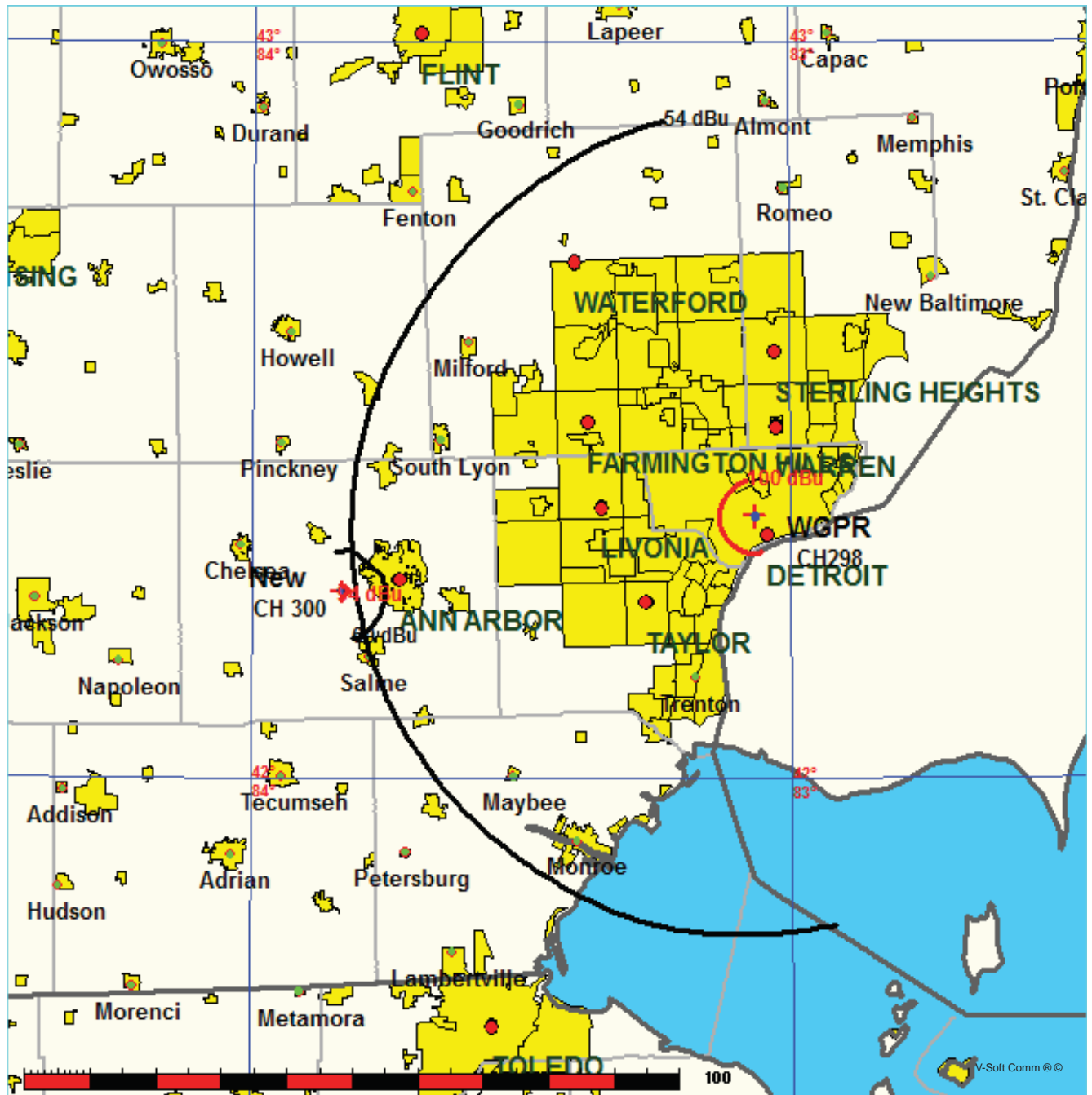


Exhibit 13.6(b) - Protection to WGPR(FM) - Detroit, MI

08-16-2013

Terrain Data: NED 03 SEC

FMOVER Analysis

New

WGPR BLH20040422ABP

Channel = 300D
Max ERP = 0.038 kW
RCAMSL = 333 M
N. Lat. 42 15 18.0
W. Lng. 83 50 03.0
Protected
60 dBu

Channel = 298B
Max ERP = 50 kW
RCAMSL = 315.5 M
N. Lat. 42 21 28.0
W. Lng. 83 03 55.0
Interfering
100 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
034.0	000.0380	0050.1	005.7	263.9	050.0000	0129.3	060.4	58.66	
035.0	000.0380	0050.5	005.8	263.9	050.0000	0129.3	060.3	58.70	
036.0	000.0380	0050.3	005.7	263.8	050.0000	0129.3	060.2	58.72	
037.0	000.0380	0050.1	005.7	263.7	050.0000	0129.4	060.1	58.75	
038.0	000.0380	0050.7	005.8	263.7	050.0000	0129.4	060.1	58.78	
039.0	000.0380	0050.7	005.8	263.6	050.0000	0129.4	060.0	58.81	
040.0	000.0380	0049.7	005.7	263.5	050.0000	0129.4	060.0	58.82	
041.0	000.0380	0049.2	005.7	263.4	050.0000	0129.4	059.9	58.84	
042.0	000.0380	0050.0	005.7	263.4	050.0000	0129.4	059.8	58.87	
043.0	000.0380	0050.1	005.7	263.3	050.0000	0129.5	059.7	58.90	
044.0	000.0380	0049.4	005.7	263.2	050.0000	0129.5	059.7	58.91	
045.0	000.0380	0049.7	005.7	263.1	050.0000	0129.5	059.6	58.94	
046.0	000.0380	0050.6	005.8	263.1	050.0000	0129.5	059.5	58.98	
047.0	000.0380	0049.0	005.7	263.0	050.0000	0129.6	059.5	58.98	
048.0	000.0380	0049.0	005.7	262.9	050.0000	0129.7	059.5	59.00	
049.0	000.0380	0049.3	005.7	262.8	050.0000	0129.7	059.4	59.03	
050.0	000.0380	0050.1	005.7	262.7	050.0000	0129.7	059.3	59.06	
051.0	000.0380	0051.6	005.8	262.7	050.0000	0129.7	059.2	59.11	
052.0	000.0380	0051.6	005.8	262.6	050.0000	0129.8	059.2	59.13	
053.0	000.0380	0051.6	005.8	262.5	050.0000	0129.8	059.1	59.15	
054.0	000.0380	0052.2	005.9	262.5	050.0000	0129.8	059.0	59.18	
055.0	000.0380	0053.3	005.9	262.4	050.0000	0129.8	058.9	59.22	
056.0	000.0380	0054.9	006.0	262.3	050.0000	0129.8	058.8	59.26	
057.0	000.0380	0056.2	006.1	262.3	050.0000	0129.8	058.7	59.30	
058.0	000.0380	0056.2	006.1	262.2	050.0000	0129.8	058.7	59.32	
059.0	000.0380	0057.1	006.1	262.1	050.0000	0129.8	058.6	59.35	
060.0	000.0380	0058.4	006.2	262.0	050.0000	0129.8	058.5	59.39	
061.0	000.0380	0059.5	006.2	262.0	050.0000	0129.8	058.4	59.42	
062.0	000.0380	0060.1	006.3	261.9	050.0000	0129.8	058.3	59.44	
063.0	000.0380	0061.0	006.3	261.8	050.0000	0129.8	058.2	59.47	
064.0	000.0380	0063.2	006.4	261.7	050.0000	0129.9	058.1	59.52	
065.0	000.0380	0064.9	006.5	261.6	050.0000	0129.9	058.0	59.56	
066.0	000.0380	0067.1	006.6	261.5	050.0000	0129.9	057.9	59.61	
067.0	000.0380	0067.6	006.6	261.4	050.0000	0130.0	057.8	59.64	
068.0	000.0380	0068.4	006.6	261.3	050.0000	0130.0	057.8	59.66	
069.0	000.0380	0068.1	006.6	261.2	050.0000	0130.1	057.7	59.67	

Exhibit 13.6(b) - Protection to WGPR(FM) - Detroit, MI

FMOver Analysis

Page # 2

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
070.0	000.0380	0067.8	006.6	261.1	050.0000	0130.2	057.7	59.68
071.0	000.0380	0067.8	006.6	261.0	050.0000	0130.2	057.7	59.69
072.0	000.0380	0068.2	006.6	260.9	050.0000	0130.2	057.7	59.70
073.0	000.0380	0067.5	006.6	260.8	050.0000	0130.2	057.7	59.69
074.0	000.0380	0067.2	006.6	260.6	050.0000	0130.2	057.7	59.69
075.0	000.0380	0065.7	006.5	260.5	050.0000	0130.3	057.8	59.67
076.0	000.0380	0064.8	006.5	260.4	050.0000	0130.4	057.8	59.67
077.0	000.0380	0065.6	006.5	260.3	050.0000	0130.5	057.8	59.69
078.0	000.0380	0067.0	006.6	260.2	050.0000	0130.5	057.7	59.72
079.0	000.0380	0068.1	006.6	260.1	050.0000	0130.6	057.6	59.74
080.0	000.0380	0069.5	006.7	260.0	050.0000	0130.6	057.6	59.77
081.0	000.0380	0071.9	006.8	259.8	050.0000	0130.6	057.4	59.81
082.0	000.0380	0073.4	006.9	259.7	050.0000	0130.7	057.4	59.84
083.0	000.0380	0073.6	006.9	259.6	050.0000	0130.7	057.4	59.84
084.0	000.0380	0071.8	006.8	259.5	050.0000	0130.7	057.5	59.81
085.0	000.0380	0070.7	006.8	259.4	050.0000	0130.7	057.5	59.78
086.0	000.0380	0070.5	006.7	259.3	050.0000	0130.8	057.6	59.78
087.0	000.0380	0070.4	006.7	259.1	050.0000	0130.9	057.6	59.78
088.0	000.0380	0070.7	006.8	259.0	050.0000	0131.1	057.6	59.78
089.0	000.0380	0070.3	006.7	258.9	050.0000	0131.2	057.6	59.78
090.0	000.0380	0069.6	006.7	258.8	050.0000	0131.2	057.7	59.76
091.0	000.0380	0069.6	006.7	258.7	050.0000	0131.2	057.7	59.75
092.0	000.0380	0069.9	006.7	258.6	050.0000	0131.2	057.7	59.74
093.0	000.0380	0070.1	006.7	258.5	050.0000	0131.2	057.7	59.73
094.0	000.0380	0070.2	006.7	258.3	050.0000	0131.2	057.8	59.72
095.0	000.0380	0070.3	006.7	258.2	050.0000	0131.2	057.8	59.71
096.0	000.0380	0070.5	006.7	258.1	050.0000	0131.2	057.8	59.70
097.0	000.0380	0070.3	006.7	258.0	050.0000	0131.2	057.9	59.69
098.0	000.0380	0070.5	006.8	257.9	050.0000	0131.2	057.9	59.68
099.0	000.0380	0070.3	006.7	257.8	050.0000	0131.2	057.9	59.66
100.0	000.0380	0069.8	006.7	257.7	050.0000	0131.2	058.0	59.63
101.0	000.0380	0069.9	006.7	257.6	050.0000	0131.2	058.1	59.62
102.0	000.0380	0070.5	006.7	257.5	050.0000	0131.2	058.1	59.61
103.0	000.0380	0070.7	006.8	257.4	050.0000	0131.2	058.1	59.59
104.0	000.0380	0070.8	006.8	257.3	050.0000	0131.3	058.2	59.58
105.0	000.0380	0070.6	006.8	257.2	050.0000	0131.3	058.2	59.55
106.0	000.0380	0069.8	006.7	257.1	050.0000	0131.3	058.3	59.52
107.0	000.0380	0069.5	006.7	257.0	050.0000	0131.4	058.4	59.50
108.0	000.0380	0069.3	006.7	256.9	050.0000	0131.4	058.5	59.48
109.0	000.0380	0069.6	006.7	256.8	050.0000	0131.4	058.5	59.46
110.0	000.0380	0069.8	006.7	256.7	050.0000	0131.4	058.6	59.44
111.0	000.0380	0070.0	006.7	256.6	050.0000	0131.4	058.6	59.42
112.0	000.0380	0070.3	006.7	256.5	050.0000	0131.5	058.7	59.40
113.0	000.0380	0070.7	006.8	256.4	050.0000	0131.5	058.7	59.38
114.0	000.0380	0071.4	006.8	256.3	050.0000	0131.5	058.8	59.36
115.0	000.0380	0072.2	006.8	256.2	050.0000	0131.5	058.8	59.35
116.0	000.0380	0072.8	006.9	256.0	050.0000	0131.5	058.9	59.32
117.0	000.0380	0073.0	006.9	255.9	050.0000	0131.5	059.0	59.30
118.0	000.0380	0072.8	006.9	255.9	050.0000	0131.5	059.0	59.27
119.0	000.0380	0072.7	006.8	255.8	050.0000	0131.5	059.1	59.24
120.0	000.0380	0072.9	006.9	255.7	050.0000	0131.6	059.2	59.21

Exhibit 13.6(b) - Protection to WGPR(FM) - Detroit, MI

08-16-2013

Terrain Data: NED 03 SEC

FMOver Analysis

WGPR BLH20040422ABP

New

Channel = 298B

Max ERP = 50 kW

RCAMSL = 315.5 M

N. Lat. 42 21 28.0

W. Lng. 83 03 55.0

Protected

54 dBu

Channel = 300D

Max ERP = 0.038 kW

RCAMSL = 333 M

N. Lat. 42 15 18.0

W. Lng. 83 50 03.0

Interfering

94 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
215.0	050.0000	0136.3	063.1	145.9	000.0380	0079.5	048.6	28.39	
216.0	050.0000	0136.2	063.1	146.2	000.0380	0079.5	047.7	28.73	
217.0	050.0000	0136.1	063.1	146.6	000.0380	0079.7	046.6	29.11	
218.0	050.0000	0136.3	063.1	147.1	000.0380	0079.9	045.6	29.50	
219.0	050.0000	0136.1	063.1	147.5	000.0380	0080.1	044.6	29.90	
220.0	050.0000	0136.0	063.1	148.0	000.0380	0080.2	043.5	30.31	
221.0	050.0000	0135.8	063.0	148.4	000.0380	0080.7	042.5	30.77	
222.0	050.0000	0135.9	063.0	148.8	000.0380	0081.5	041.4	31.26	
223.0	050.0000	0136.1	063.1	149.3	000.0380	0081.9	040.4	31.73	
224.0	050.0000	0136.1	063.1	149.8	000.0380	0082.2	039.3	32.19	
225.0	050.0000	0136.0	063.1	150.2	000.0380	0082.1	038.2	32.62	
226.0	050.0000	0135.8	063.0	150.6	000.0380	0081.9	037.2	33.05	
227.0	050.0000	0135.8	063.0	151.0	000.0380	0082.1	036.1	33.54	
228.0	050.0000	0135.6	063.0	151.4	000.0380	0082.6	035.0	34.05	
229.0	050.0000	0135.5	063.0	151.8	000.0380	0082.9	033.9	34.57	
230.0	050.0000	0135.7	063.0	152.3	000.0380	0083.3	032.9	35.11	
231.0	050.0000	0135.6	063.0	152.7	000.0380	0083.6	031.8	35.64	
232.0	050.0000	0135.3	063.0	153.0	000.0380	0084.0	030.7	36.23	
233.0	050.0000	0135.2	063.0	153.4	000.0380	0084.3	029.6	36.85	
234.0	050.0000	0135.1	062.9	153.7	000.0380	0084.4	028.5	37.49	
235.0	050.0000	0134.9	062.9	154.0	000.0380	0084.4	027.5	38.16	
236.0	050.0000	0134.7	062.9	154.3	000.0380	0084.4	026.4	38.87	
237.0	050.0000	0135.0	062.9	154.8	000.0380	0084.6	025.3	39.63	
238.0	050.0000	0135.1	062.9	155.1	000.0380	0084.9	024.2	40.44	
239.0	050.0000	0134.9	062.9	155.4	000.0380	0085.1	023.1	41.27	
240.0	050.0000	0134.7	062.9	155.6	000.0380	0084.9	022.0	42.09	
241.0	050.0000	0134.7	062.9	155.9	000.0380	0084.7	020.9	42.93	
242.0	050.0000	0134.5	062.8	156.1	000.0380	0084.6	019.8	43.79	
243.0	050.0000	0134.5	062.8	156.3	000.0380	0084.5	018.7	44.68	
244.0	050.0000	0134.5	062.8	156.4	000.0380	0084.5	017.6	45.60	
245.0	050.0000	0134.5	062.8	156.6	000.0380	0084.5	016.5	46.52	
246.0	050.0000	0134.2	062.8	156.6	000.0380	0084.5	015.4	47.47	
247.0	050.0000	0133.7	062.7	156.2	000.0380	0084.5	014.3	48.45	

Exhibit 13.6(b) - Protection to WGPR(FM) - Detroit, MI

FMOver Analysis

Page # 5

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
248.0	050.0000	0133.6	062.7	156.1	000.0380	0084.6	013.2	49.87
249.0	050.0000	0133.6	062.7	155.9	000.0380	0084.7	012.1	51.45
250.0	050.0000	0133.6	062.7	155.6	000.0380	0085.0	011.0	53.20
251.0	050.0000	0133.6	062.7	155.0	000.0380	0084.8	009.9	55.05
252.0	050.0000	0132.8	062.6	153.5	000.0380	0084.4	008.9	56.97
253.0	050.0000	0132.6	062.6	152.0	000.0380	0083.1	007.8	58.92
254.0	050.0000	0132.2	062.5	149.7	000.0380	0082.2	006.7	61.42
255.0	050.0000	0131.9	062.4	146.5	000.0380	0079.7	005.7	64.15
256.0	050.0000	0131.5	062.4	141.5	000.0380	0077.6	004.7	67.23
257.0	050.0000	0131.4	062.4	134.2	000.0380	0076.6	003.8	70.91
258.0	050.0000	0131.2	062.3	122.0	000.0380	0073.9	002.9	74.77
259.0	050.0000	0131.1	062.3	101.9	000.0380	0070.3	002.3	78.52
260.0	050.0000	0130.6	062.3	074.2	000.0380	0067.0	002.2	78.95
261.0	050.0000	0130.2	062.2	050.0	000.0380	0050.1	002.6	73.76
262.0	050.0000	0129.8	062.1	034.5	000.0380	0050.4	003.4	69.34
263.0	050.0000	0129.6	062.1	025.0	000.0380	0055.1	004.3	66.11
264.0	050.0000	0129.3	062.1	019.2	000.0380	0056.9	005.2	62.86
265.0	050.0000	0129.1	062.0	015.2	000.0380	0059.0	006.2	59.91
266.0	050.0000	0129.0	062.0	012.4	000.0380	0059.5	007.3	57.28
267.0	050.0000	0128.7	062.0	010.6	000.0380	0059.9	008.3	55.14
268.0	050.0000	0128.5	061.9	009.3	000.0380	0058.7	009.4	53.03
269.0	050.0000	0128.3	061.9	008.3	000.0380	0058.1	010.5	51.07
270.0	050.0000	0128.0	061.9	007.7	000.0380	0058.3	011.5	49.33
271.0	050.0000	0127.9	061.8	007.1	000.0380	0059.2	012.6	47.82
272.0	050.0000	0128.0	061.9	006.6	000.0380	0059.7	013.7	46.39
273.0	050.0000	0127.5	061.8	006.6	000.0380	0059.8	014.8	45.04
274.0	050.0000	0127.2	061.7	006.5	000.0380	0059.8	015.8	44.27
275.0	050.0000	0127.0	061.7	006.5	000.0380	0059.8	016.9	43.33
276.0	050.0000	0126.8	061.7	006.5	000.0380	0059.8	018.0	42.40
277.0	050.0000	0126.5	061.6	006.6	000.0380	0059.7	019.1	41.49
278.0	050.0000	0126.2	061.6	006.8	000.0380	0059.6	020.1	40.57
279.0	050.0000	0125.9	061.5	007.0	000.0380	0059.4	021.2	39.67
280.0	050.0000	0125.5	061.5	007.2	000.0380	0058.9	022.3	38.76
281.0	050.0000	0124.9	061.4	007.6	000.0380	0058.4	023.4	37.87
282.0	050.0000	0124.6	061.3	007.9	000.0380	0058.1	024.4	37.04
283.0	050.0000	0124.2	061.3	008.2	000.0380	0058.1	025.5	36.27
284.0	050.0000	0124.0	061.2	008.5	000.0380	0058.2	026.5	35.57
285.0	050.0000	0123.4	061.1	008.9	000.0380	0058.5	027.6	34.94
286.0	050.0000	0122.8	061.1	009.3	000.0380	0058.7	028.6	34.32
287.0	050.0000	0122.4	061.0	009.6	000.0380	0058.8	029.7	33.75
288.0	050.0000	0122.0	060.9	010.0	000.0380	0059.4	030.7	33.27
289.0	050.0000	0121.8	060.9	010.3	000.0380	0059.8	031.8	32.82
290.0	050.0000	0121.5	060.9	010.7	000.0380	0059.9	032.8	32.38
291.0	050.0000	0121.1	060.8	011.1	000.0380	0059.9	033.9	31.94
292.0	050.0000	0120.6	060.7	011.5	000.0380	0059.9	034.9	31.50
293.0	050.0000	0120.1	060.6	012.0	000.0380	0059.8	035.9	31.06
294.0	050.0000	0119.8	060.6	012.4	000.0380	0059.6	036.9	30.61
295.0	050.0000	0119.4	060.5	012.8	000.0380	0059.5	038.0	30.20
296.0	050.0000	0118.8	060.4	013.2	000.0380	0059.7	039.0	29.82
297.0	050.0000	0118.6	060.4	013.6	000.0380	0060.0	040.0	29.47
298.0	050.0000	0118.2	060.3	014.1	000.0380	0059.9	041.0	29.08

Exhibit 13.7

Canadian Study

34 dBu F(50:10) Contour

Spring Arbor University Communications, Inc.

Coverage Study - NED 03 SEC
08-16-2013

New CH300 D , 0.038 kW, 61.3M HAAT, 333.0M COR AMSL
Service Contour = 34 dBu. Population = 534,137

A Tabulation of the 34 dBu F(50:10) Contour Will Be Supplied Upon Request

