

**Channel Study**

REFERENCE CH# 262D - 100.3 MHz, Pwr= 0.022 kW, HAAT= 95.9 M, COR= 356 M DISPLAY DATES  
 42 43 58.0 N. Average Protected F(50-50)= 6.9 km DATA 12-30-09  
 84 33 13.0 W. Omni-directional SEARCH 12-30-09

CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
262D Dimondale	W262BD	LIC	C MI	212.0 31.9	8.9 BLFT20070801IGY	42 39 54.0 84 36 40.0	0.013	23.2 385	6.9 Educational Media Foundati	-21.0*	-20.2
264B Lansing	WITL-FM	LIC	CN MI	145.3 325.3	7.7 BLH19850610KF	42 40 33.0 84 30 00.0	26.500 196	5.9 465	65.1 Citadel Broadcasting Compa	-4.9<	-58.1*<
262B Dearborn	WNIC	LIC	CN MI	107.9 288.8	121.6 BLH19850719KR	42 23 22.0 83 08 53.0	32.000 183	131.9 374	64.3 Amfm Radio Licenses, L.l.c	-17.2*<	24.5
260D Lansing	W260BX	LIC	DC MI	153.9 333.9	1.1 BLFT20091026AAW	42 43 25.0 84 32 51.0	0.190	0.7 370	10.9 Family Life Broadcasting S	-6.4*<	-10.1*<
259C Midland	WUGN	LIC	CN MI	0.4 180.4	87.0 BMLH20050728AOB	43 30 56.0 84 32 49.0	100.000 304	10.2 520	72.6 Family Life Broadcasting S	69.6	14.0
261A Hastings	WBCH-FM	LIC	C MI	258.9 78.4	60.6 BMLH20040629AAF	42 37 34.0 85 16 41.0	3.000 90	35.5 359	23.6 Barry Broadcasting Co.	18.2	27.3
262A Angola	WLKI	LIC	NCN IN	197.7 17.4	122.6 BLH19920429KA	41 40 51.0 85 00 05.0	4.000 120	83.7 428	28.0 Swick Broadcasting Company	32.1	72.1
260D Albion	W260BH	LIC	C MI	199.6 19.4	55.8 BLFT20050823ABZ	42 15 33.0 84 46 53.0	0.039	0.4 345	6.1 Elmer Hess, Jr.	48.7	49.4
262C1 Grayling	WGRY-FM	LIC	NCN MI	356.9 176.8	204.5 BLH19950714KB	44 34 15.0 84 41 33.0	60.000 131	140.4 497	52.4 Gannon Broadcasting System	57.0	128.3
263A Walker	WTRV	LIC	CX MI	288.5 107.7	101.9 BLH20060602AAJ	43 00 59.0 85 44 24.0	3.000 100	36.5 320	24.2 Regent Broadcasting Of Gra	58.3	67.7
263A Carrollton	WSGW-FM	CP	ZCX MI	26.5 206.9	103.2 BPH20090507AAE	43 33 42.0 83 58 52.0	6.000 100	36.5 285	24.2 Nm Licensing Llc	59.6	69.1
263A Carrollton	WSGW-FM	LIC	CN MI	26.5 206.9	103.2 BLH19910322KB	43 33 43.0 83 58 54.0	3.000 100	36.5 285	24.1 Nm Licensing Llc	59.7	69.1
261D Flint	W261BH	LIC	C MI	63.7 244.3	78.4 BLFT20071003ACL	43 02 29.0 83 41 28.0	0.038	9.0 290	6.3 Educational Media Foundati	62.4	62.2

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),  
 Beamtlt(Y,N,X)  
 "\*"affixed to 'IN' or 'OUT' values = site inside protected contour.

**Compliance with C.F.R. 74.1204**

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WITL, channel 264B, Lansing, MI (BLH19850610KF). The predicted F(50-50) field strength of WITL at the proposed translator site is 95.6 dBu, (see Exhibit 13A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 135.6 dBu. This interfering contour extends approximately 5.4 meters from the proposed transmit antenna, and the area of overlap does not reach the roof of the 90.5 meter building. The antenna will be mounted at 6 meters above the rooftop on an existing superstructure. It has been confirmed that the top two floors of the building are unoccupied (see Exhibit 13A-3). Thus, the interfering contour will not contain any regularly occupied structure.

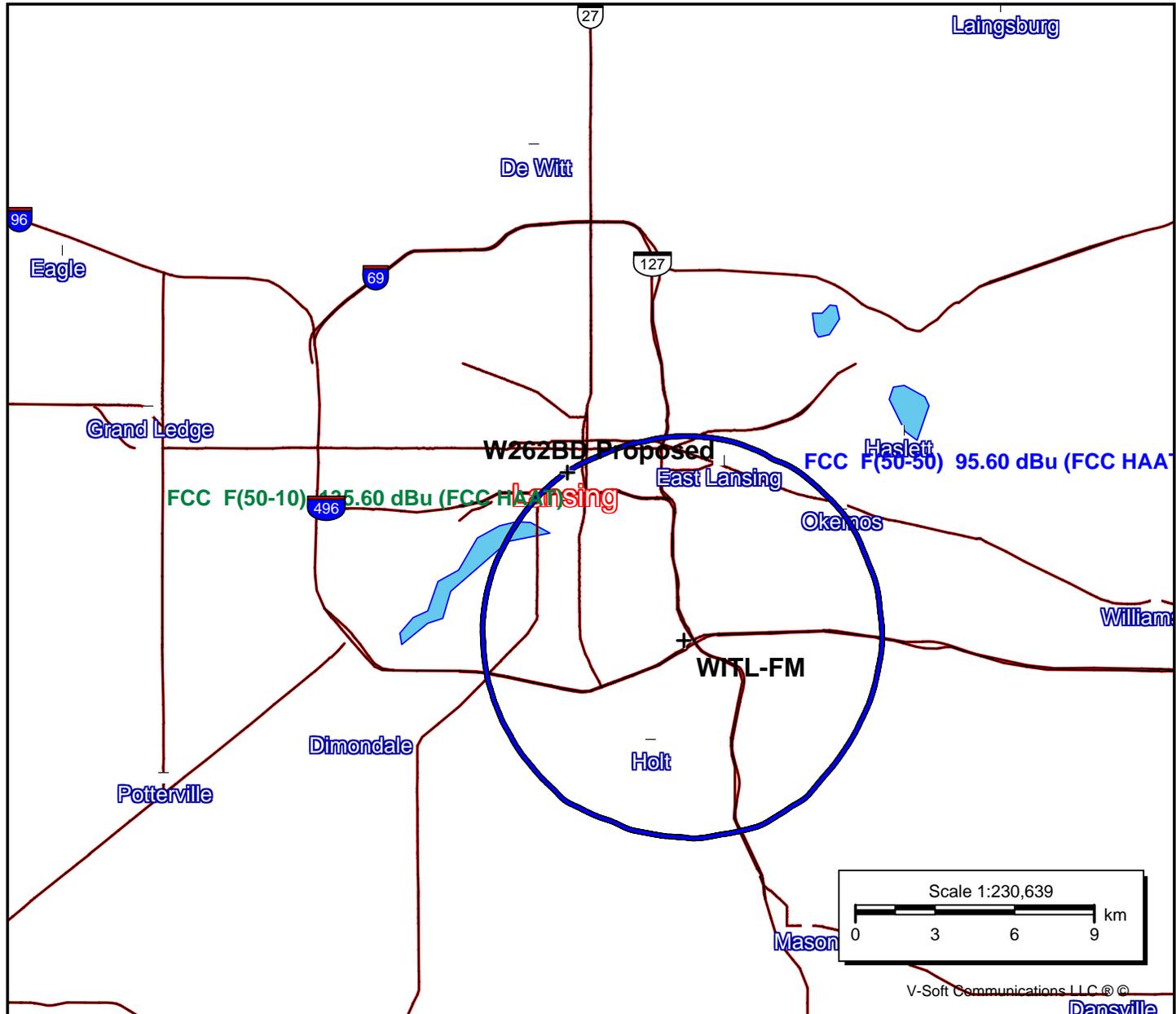
The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station W260BX, channel 260D, Lansing, MI (BLFT20091026AAW). The predicted F(50-50) field strength of W260BX at the proposed translator site is 95.6 dBu, (see Exhibit 13A-2). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 135.6 dBu. This interfering contour extends approximately 5.4 meters from the proposed transmit antenna, and the area of overlap does not reach the roof of the 90.5 meter building. The antenna will be mounted at 6 meters above the rooftop on an existing superstructure. It has been confirmed that the top two floors of the building are unoccupied (see Exhibit 13A-3). Thus the interfering contour will not contain any regularly occupied structure.

To confirm the absence of population within the interference aperture, EMF has examined the attached photo (see Exhibit 13A-4) which indicate no structure which could be tall enough to enter the 5.4 meter interference apertures.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

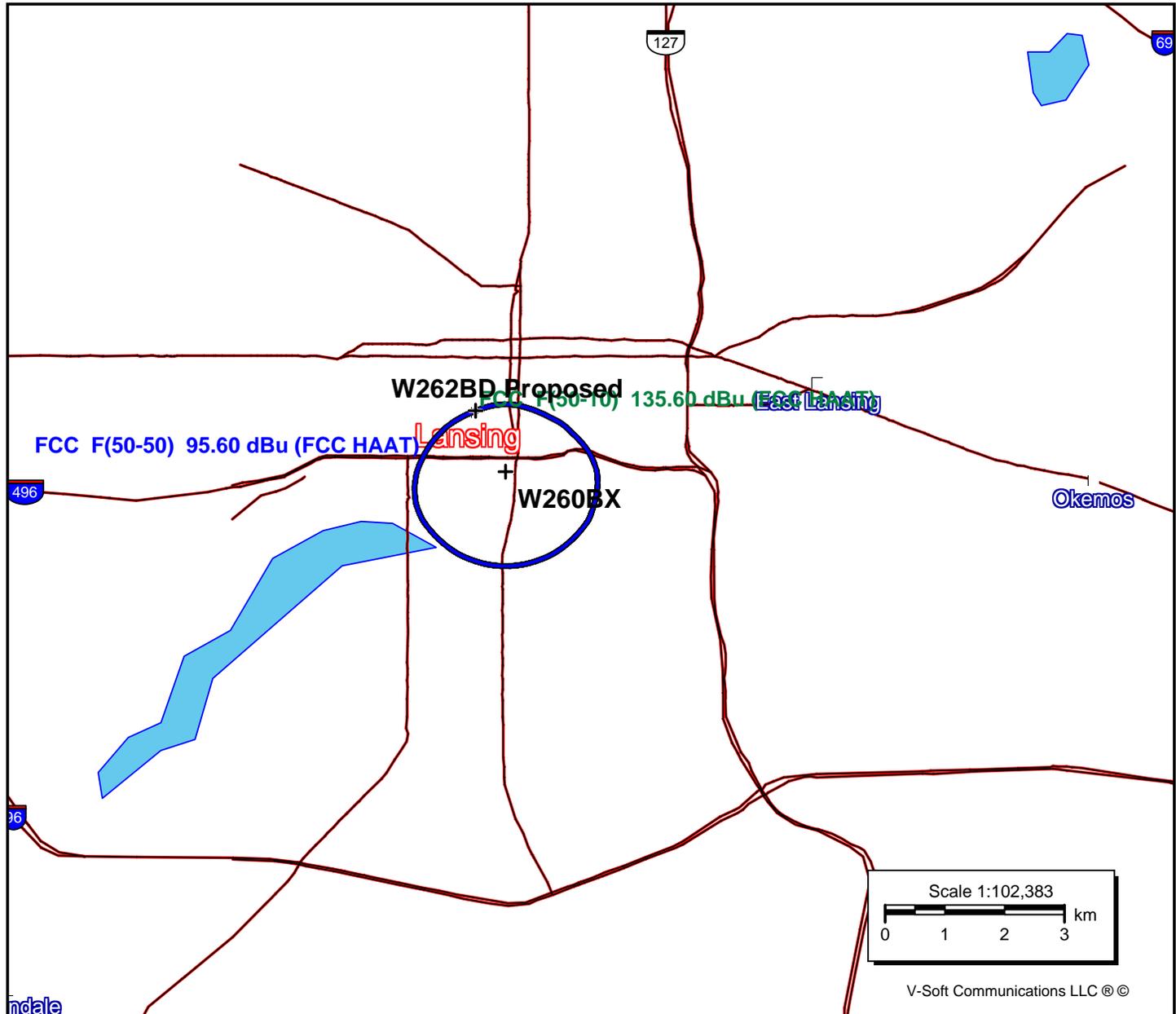
**W262BD Proposed**  
Latitude: 42-43-58 N  
Longitude: 084-33-13 W  
ERP: 0.022 kW  
Channel: 262  
Frequency: 100.3 MHz  
AMSL Height: 356.0 m  
Elevation: 259.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**WITL-FM**  
BLH19850610KF  
Latitude: 42-40-33 N  
Longitude: 084-30-00 W  
ERP: 26.50 kW  
Channel: 264  
Frequency: 100.7 MHz  
AMSL Height: 465.0 m  
Elevation: 265.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None



**W262BD Proposed**  
Latitude: 42-43-58 N  
Longitude: 084-33-13 W  
ERP: 0.022 kW  
Channel: 262  
Frequency: 100.3 MHz  
AMSL Height: 356.0 m  
Elevation: 259.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

**W260BX**  
BLFT20091026AAW  
Latitude: 42-43-25 N  
Longitude: 084-32-51 W  
ERP: 0.19 kW  
Channel: 260  
Frequency: 99.9 MHz  
AMSL Height: 370.0 m  
Elevation: 256.0 m  
Horiz. Pattern: Directional  
Vert. Pattern: No  
Prop Model: None



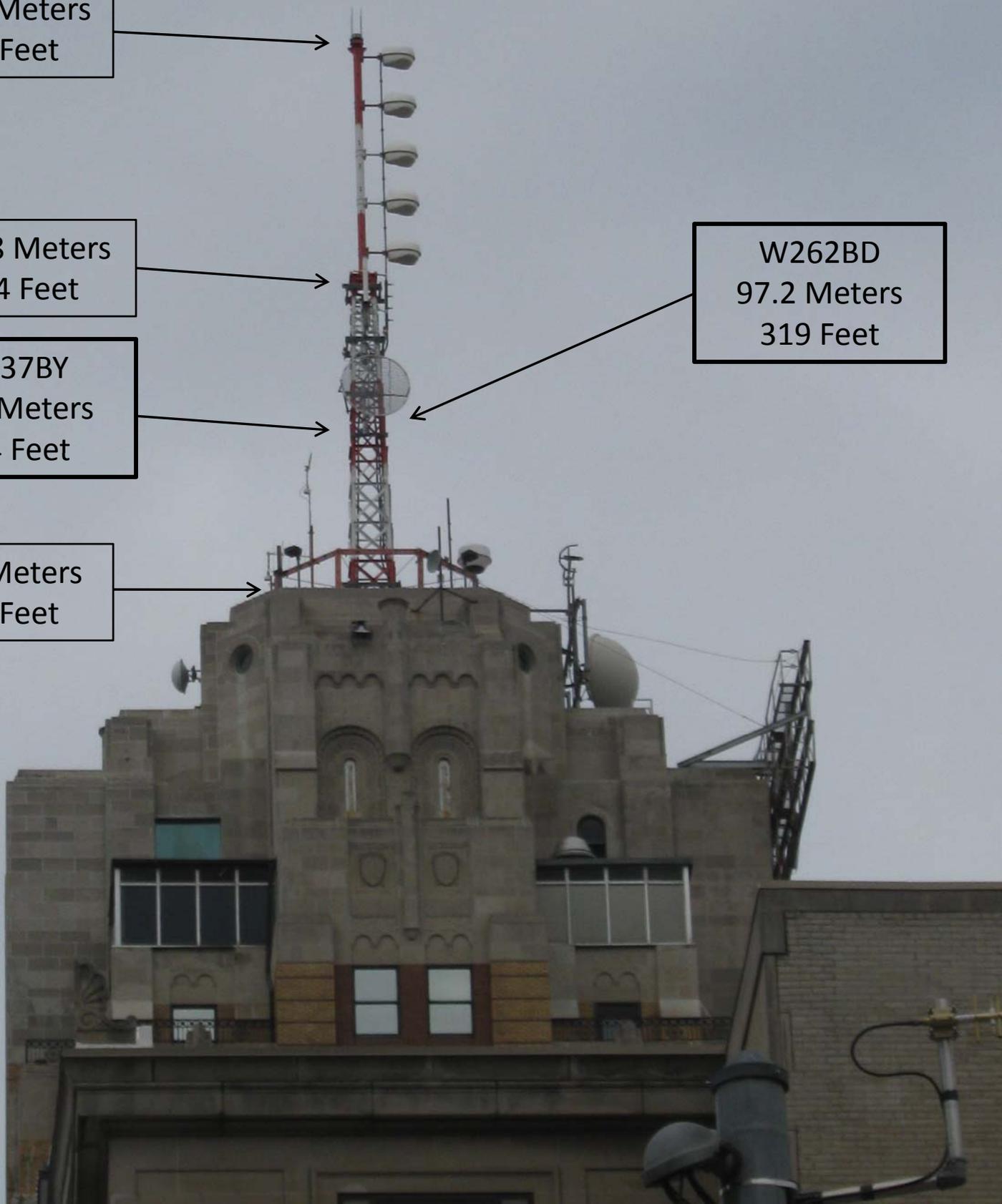
110.9 Meters  
364 Feet

~101.8 Meters  
~334 Feet

W237BY  
95.7 Meters  
314 Feet

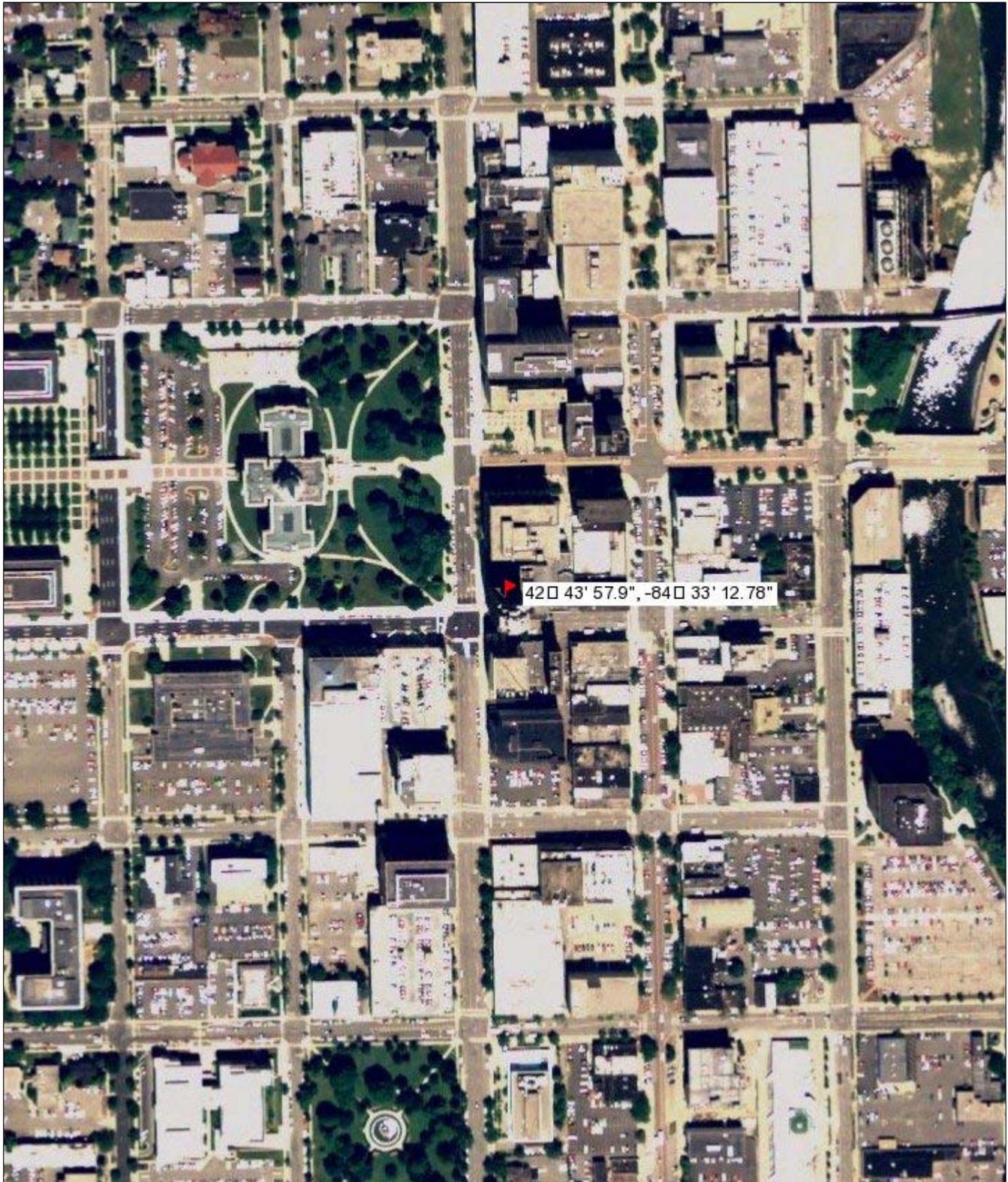
90.5 Meters  
297 Feet

W262BD  
97.2 Meters  
319 Feet









Reg Number 1024965 Status Constructed

Location (in NAD83 Coordinates)  
Lat/Long 42-43-57.9 N 084-33-12.8 W