

PROPOSED DAYTIME FACILITIES

M-10 Broadcasting, Inc.
Pikesville, MD

The proposed WWLG daytime facilities will operate at a power level of 50 kilowatts utilizing the identical six tower daytime directional pattern presently authorized for WWLG at a power level of 21 kilowatts by construction permits BP-19990521AD and BMJP-20001023ACJ. As part of implementing these facilities at a power level of 21 kilowatts pursuant to construction permit BP-19990521AD, it was necessary to add three augmentations to this daytime directional pattern. After being adjusted to compensate for the proposed increase in power to 50 kilowatts, these augmentations have been incorporated into the proposed daytime directional pattern.

Section 73.152(c) of the FCC Rules normally does not permit the augmentation of a proposed standard pattern at the initial construction permit stage prior to the completion of a full proof of performance. In this case, however, it was already necessary to augment this standard pattern at the presently authorized power level of 21 kilowatts in order to totally encompass the measured pattern. The proposed increase in power to 50 kilowatts, with no other changes in technical parameters, will obviously require similar augmentation. Thus, it appears that the instant situation falls within the exception outlined in Section 73.152(c)(1) of the FCC Rules permitting a pattern to be augmented at the initial construction permit stage when the proposed pattern is essentially the same as an existing pattern. Based on the above information, no waiver should be required to permit the proposed augmentation of this pattern at the original construction permit stage. Should it be deemed to be necessary for some reason, however, a waiv-

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er of Section 73.152(c) of the FCC Rules is respectfully requested to permit the proposed augmentations to this pattern.

Table 10.1.0 presents a complete description of the proposed WWLG daytime antenna system. Table 10.1.1 is a tabulation of the proposed WWLG daytime directional pattern. This pattern is shown in polar form in Figure 10.1.1.

Prior to commencing daytime only operation on 1370 kHz from this transmitter site to implement the 21 kilowatt daytime facilities authorized by construction permit BP-19990521AD, WWLG had been operating nondirectionally during daytime hours at reduced power on 1360 kHz from its presently licensed 1360 kHz nighttime transmitter site pursuant to special temporary authority granted by the FCC. This reduced power daytime operation was the result of WWLG losing access to its presently licensed 1360 kHz daytime transmitter site several years ago. For this reason, the following map exhibits do not include any predicted service contours for the presently licensed WWLG 1360 kHz daytime facilities.

Table 10.1.2 presents a tabulation of the daytime service contours for the 21 kilowatt 1370 kHz facilities presently authorized for WWLG by construction permits BP-19990521AD and BMJP-20001023ACJ. Table 10.1.3 lists the WWLG proposed daytime service contours. All of these contours were projected using conductivity data extracted from the recently completed full proof of performance on this daytime directional antenna system at a power level of 21 kilowatts, as well as conductivity data obtained under a special field test authorization on test transmitter WW3XLG and additional allocation measurements conducted from this site. This measured conductivity data, con-

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tained in Appendices D, E, and H, respectively, to Exhibit 14 of the attached application, was supplemented with conductivity data extracted from FCC Figure M3.

Figure 10.1.2 depicts the authorized and proposed 1000 mV/m daytime contours. Figure 10.1.3 depicts the 5 mV/m contours for the authorized and proposed WWLG daytime facilities in relation to the boundaries of Pikesville. As shown in this figure, the proposed 5 mV/m daytime contour will not encompass all of Pikesville, as required by Section 73.24(i) of the FCC Rules. A complete discussion of this situation, as well as an appropriate waiver request, is contained in Exhibit 11 to the attached application. Finally, Figure 10.1.4 shows the 2 mV/m and 0.5 mV/m contours for the authorized and proposed daytime facilities.

TABLE 10.1.0

WWLG PROPOSED DAYTIME
DIRECTIONAL ANTENNA SYSTEM

M-10 Broadcasting, Inc.
 Pikesville, MD

Power:	50 kilowatts directional		
Type of elements:	Vertical, uniform cross section, guyed and base insulated, series excited.		
Height above insulators:	96.0° electrical, 191.4' (58.4 m) physical		
Overall height above ground:	#1 - 197' (60.0 m) AGL, 317' (96.6 m) MSL #2 - 197' (60.0 m) AGL, 317' (96.6 m) MSL #3 - 197' (60.0 m) AGL, 320' (97.6 m) MSL #3 - 197' (60.0 m) AGL, 322' (98.1 m) MSL #5 - 197' (60.0 m) AGL, 324' (98.7 m) MSL #6 - 197' (60.0 m) AGL, 326' (99.3 m) MSL		
Orientation and spacing:	<u>Tower</u>	<u>Bearing</u>	<u>Spacing</u>
	1	Reference	
	2	220.1°	89.4° (54.3 m)
	3	221.0°	167.9° (102.1 m)
	4	221.7°	245.4° (149.2 m)
	5	221.0°	335.8° (204.1 m)
	6	220.4°	422.9° (257.1 m)
Electrical parameters:	<u>Tower</u>	<u>Field Ratio</u>	<u>Phase</u>
	1	0.400	133.5°
	2	1.000	0.0°
	3	0.893	246.0°
	4	0.905	171.6°
	5	0.922	56.2°
	6	0.370	281.1°

TABLE 10.1.0 (cont'd)

Augmentation Data:	<u>Azimuth (Degrees)</u>	<u>Span</u>	<u>Radiation (mV/m at 1 km)</u>
	24.0	69.0	100.0
	142.5	20.0	240.7
	331.0	31.0	192.9
Ground system:	120 equally spaced radials of #10 AWG copper wire, each 54.7 meters in length buried approximately 10 cm deep about each tower. These radials will be truncated where they intersect a transverse copper strap running between adjacent towers or the property boundary.		
Predicted efficiency:	2670.66 mV/m at 1 km RMS (Augmented Standard)		
Location:	North Latitude: 39° 26' 23" West Longitude: 76° 21' 20"		

AUGMENTED STANDARD PATTERN PARAMETERS

POWER: 50.000 kW

TOWER	ELECTRICAL HEIGHT (Degrees)	FIELD RATIO	SPACING (Degrees)	BEARING (Degrees)	PHASE (Degrees)	REF FLAG
1	96.0	0.400	0.0	0.0	133.5	
2	96.0	1.000	89.4	220.1	0.0	
3	96.0	0.893	167.9	221.0	246.0	
4	96.0	0.905	245.4	221.7	171.6	
5	96.0	0.922	335.8	221.0	56.2	
6	96.0	0.370	422.9	220.4	281.1	

ARRAY LOSS ANALYSIS

LOOP RESISTANCE (Ohms)	THEORETICAL RMS (mV/m @ 1 km)
0.0	2594.91
0.5	2568.05
1.0	2542.02
1.5	2516.76
2.0	2492.24
2.5	2468.43
3.0	2445.28
3.5	2422.77
4.0	2400.88

PAT. - MULT. (K): 1533.24 mV/m @ 1 km
 ARRAY RSS : 2974.44 mV/m @ 1 km
 ARRAY Q TERM : 74.3609 mV/m @ 1 km
 STANDARD RMS : 2670.26 mV/m @ 1 km
 AUG./STD. RMS : 2670.66 mV/m @ 1 km
 RSS/RMS RATIO : 1.17

AUGMENTATION DATA

BEARING (Degrees)	SPAN (Degrees)	RADIATION (mV/m @ 1 km)
24.0	69.0	100.0
142.5	20.0	240.7
331.0	31.0	192.9

TABLE 10.1.1

**WMLG PROPOSED 1370 kHz, 50 kW
 DAYTIME AUGMENTED STANDARD
 RADIATION PATTERN**
 M-10 Broadcasting, Inc.
 Pikesville, MD

AUGMENTED STANDARD PATTERN
HORIZONTAL RADIATION

TABLE 10.1.1 (Cont'd)

BEARING (Degrees)	RADIATION (mV/m @ 1 km)	BEARING (Degrees)	RADIATION (mV/m @ 1 km)
0.0	127.2	180.0	3712.2
5.0	132.2	185.0	4241.5
10.0	126.8	190.0	4702.2
15.0	114.7	195.0	5086.7
20.0	103.5	200.0	5393.5
25.0	100.1	205.0	5625.5
30.0	104.8	210.0	5788.0
35.0	111.5	215.0	5886.4
40.0	113.9	220.0	5925.1
45.0	109.5	225.0	5905.9
50.0	99.7	230.0	5828.3
55.0	90.0	235.0	5689.2
60.0	87.7	240.0	5484.1
65.0	94.0	245.0	5208.0
70.0	102.9	250.0	4857.7
75.0	107.2	255.0	4433.6
80.0	102.5	260.0	3941.8
85.0	90.3	265.0	3395.6
90.0	79.4	270.0	2815.8
95.0	80.7	275.0	2230.2
100.0	91.2	280.0	1670.3
105.0	95.9	285.0	1168.5
110.0	87.3	290.0	752.5
115.0	79.9	295.0	442.7
120.0	109.3	300.0	249.4
125.0	165.0	305.0	163.6
130.0	208.1	310.0	137.4
135.0	221.5	315.0	129.0
140.0	243.2	320.0	143.1
145.0	246.9	325.0	174.4
150.0	425.4	330.0	192.4
155.0	825.5	335.0	183.3
160.0	1332.5	340.0	150.7
165.0	1908.1	345.0	115.7
170.0	2518.6	350.0	106.1
175.0	3130.1	355.0	114.7

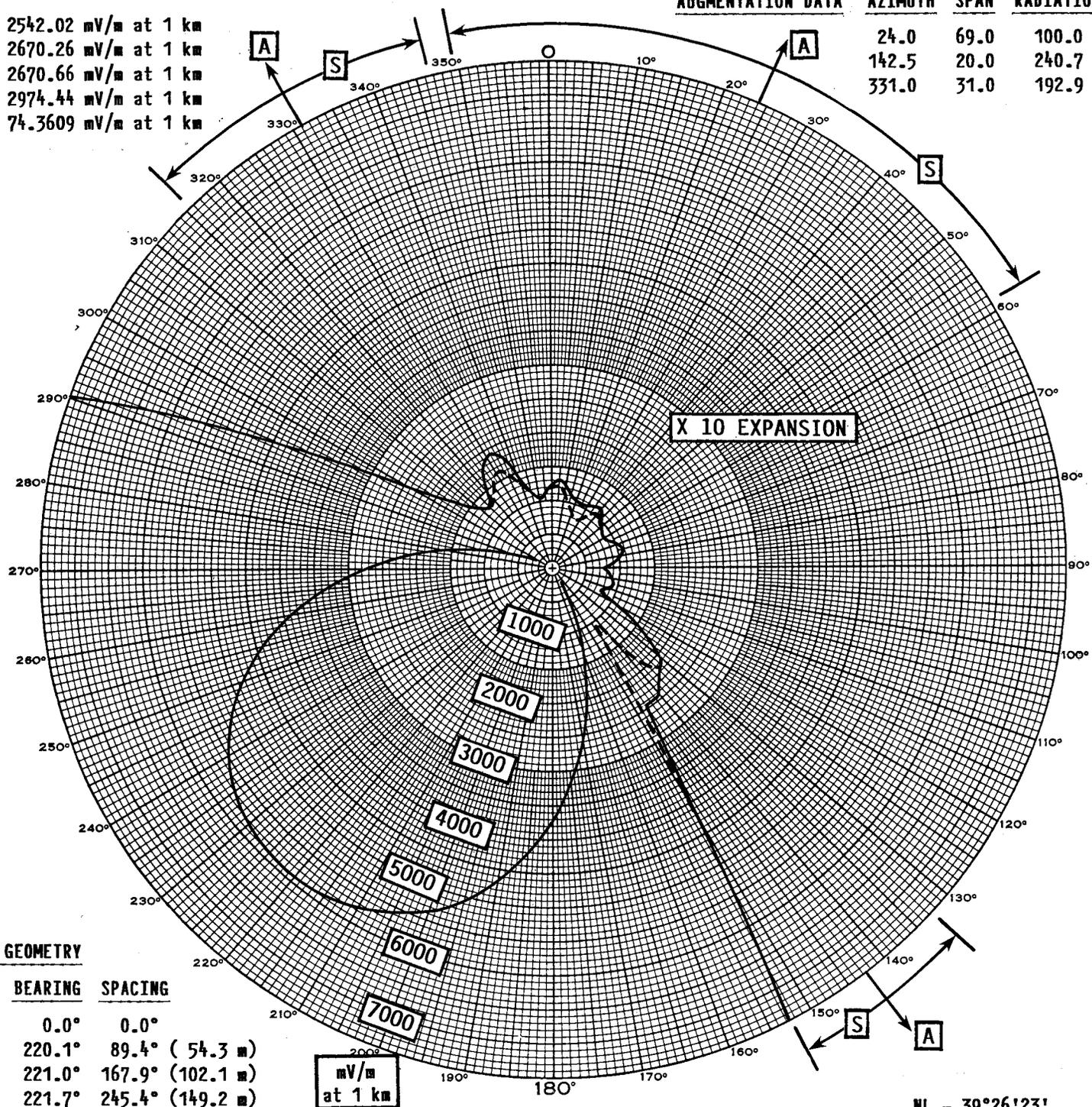
RADIATION MAXIMA

RADIATION MINIMA

BEARING (Degrees)	RADIATION (mV/m @ 1 km)	BEARING (Degrees)	RADIATION (mV/m @ 1 km)
4.8	132.2	24.2	100.0
39.4	113.9	58.5	87.3
75.0	107.2	92.0	78.2
104.4	96.0	114.2	79.4
132.4	214.4	132.6	214.3
140.3	243.3	143.3	240.0
220.8	5925.9	315.5	128.9
330.9	192.9	349.7	106.0

RMS_{TH} = 2542.02 mV/m at 1 km
 RMS_{STD} = 2670.26 mV/m at 1 km
 RMS_{AUG} = 2670.66 mV/m at 1 km
 RSS_{TH} = 2974.44 mV/m at 1 km
 Q_{TH} = 74.3609 mV/m at 1 km

AUGMENTATION DATA	AZIMUTH	SPAN	RADIATION
	24.0	69.0	100.0
	142.5	20.0	240.7
	331.0	31.0	192.9



mV/m
at 1 km

NL - 39°26'23'
WL - 76°21'20"

ARRAY GEOMETRY

TOWER	BEARING	SPACING
1	0.0°	0.0°
2	220.1°	89.4° (54.3 m)
3	221.0°	167.9° (102.1 m)
4	221.7°	245.4° (149.2 m)
5	221.0°	335.8° (204.1 m)
6	220.4°	422.9° (257.1 m)

#1	△	0.400/133.5°	
#2	△	1.000/0.0°	
#3	△	0.893/246.0°	
#4	△	0.905/171.6°	G = 96° = 58.4 m
#5	△	0.922/56.2°	
#6	△	0.370/281.1°	

FIG. 10.1.1
 WWLG PROPOSED 1370 kHz, 50 kW
 DAYTIME AUGMENTED STANDARD
 HORIZONTAL PLANE PATTERN
 M-10 Broadcasting, Inc.
 Pikesville, MD
 CARL E. SMITH CONSULTING ENGINEERS
 2324 N. CLEVE-MASS RD., BOX 807
 BATH, OHIO 44210-0807
 330/659-4440

TABLE 10.1.2

WWLG AUTHORIZED DAYTIME
SERVICE CONTOURS
(21 KW CONSTRUCTION PERMIT FACILITIES)

M-10 Broadcasting, Inc.
Pikesville, MD

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>
0	82.4	4	0.08	6.43	10.61	20.42
5	85.6	4	0.09	6.58	10.82	20.77
10	82.1	4	0.08	6.42	10.59	20.38
15	74.3	2*	0.07	4.32	7.03	---
		2* } 1.5* } avg.	---	---	---	13.00
20	67.1	2*	0.07	4.07	6.68	---
		2* } 1.5* } avg.	---	---	---	13.00
25	64.9	2*	0.06	4.00	6.56	12.88
30	67.9	2*	0.07	4.10	6.72	---
		2* } 1.5* } avg.	---	---	---	13.00
35	72.2	3***	0.07	---	---	---
		1.5***	---	3.75	6.11	12.04
40	73.8	3***	0.07	---	---	---
		1.5***	---	3.79	6.18	12.17

TABLE 10.1.2 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	1000 mV/m Contour (km)	5 mV/m Contour (km)	2 mV/m Contour (km)	0.5 mV/m Contour (km)	
45	70.9	3***	0.07	---	---	---	
		1.5***	---	3.71	6.05	11.94	
50	64.6	2**	0.06	3.99	6.55	12.85	
55	58.3	2**	0.06	3.76	6.21	12.25	
60	56.9	2**	0.06	3.70	6.13	12.11	
65	60.9	2**	0.06	3.85	6.35	12.51	
70	66.7	0.1**	0.07	---	---	---	
		3**	---	4.93	8.17	---	
		3**}	} avg.	---	---	---	13.00
		1**}					
75	69.4	0.1**	0.07	---	---	---	
		3**	---	5.05	8.33	---	
		3**}	} avg.	---	---	---	13.00
		1**}					
80	66.4	0.1**	0.07	---	---	---	
		3**	---	4.92	8.15	---	
		3**}	} avg.	---	---	---	13.00
		1**}					
85	58.5	0.1**	0.06	---	---	---	
		3**	---	4.56	7.63	---	
		3**}	} avg.	---	---	---	13.00
		1**}					

TABLE 10.1.2 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>
90	51.4	1.5*	0.05	---	---	---
		2*	---	3.49	---	---
		3*/12, 4	---	---	7.12	14.46
95	52.3	1.5*	0.05	---	---	---
		2*	---	3.53	---	---
		3*/12, 4	---	---	7.19	14.59
100	59.1	1.5*	0.06	---	---	---
		2*	---	3.79	---	---
		3*/12, 4	---	---	7.67	15.54
105	62.2	1*	0.06	---	---	---
		2*	---	3.90	---	---
		1.5*	---	---	5.66	---
		3*	---	---	---	15.39
110	56.6	1*	0.06	---	---	---
		2*	---	3.69	---	---
		1.5*	---	---	5.39	---
		3*	---	---	---	14.74
115	51.8	1*	0.05	---	---	---
		2*	---	3.51	---	---
		1.5*	---	---	5.14	---
		3*	---	---	---	14.15
120	70.9	1*	0.07	---	---	---
		2*	---	4.20	---	---
		1.5*	---	---	6.05	---
		3*	---	---	---	16.34

TABLE 10.1.2 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>
125	106.9	1.5* 4*	0.11 ---	--- 7.47	--- 12.09	--- 22.92
130	134.9	1.5* 4*	0.13 ---	--- 8.49	--- 13.53	--- 25.40
135	143.6	1.5* 4* 4* } avg. 3* }	0.12 --- --- ---	--- 8.78 --- ---	--- 13.94 --- ---	--- --- --- 26.00
140	157.6	1.5* 4*	0.13 ---	--- 9.23	--- 14.57	--- 27.21
145	160.0	1.5* 4*	0.13 ---	--- 9.31	--- 14.67	--- 27.38
150	275.7	1.5* 4* 3*	0.21 --- ---	--- 12.27 ---	--- 18.84 ---	--- --- 30.20
155	535.0	4/14, 40/23.4, 4/41.1, 40/45.1, 4	0.46	23.98	32.49	56.74
160	863.5	4/14.4, 40/26.5, 4/40, 40/47.9, 4/64.5, 40/66.5, 4	0.71	30.06	41.76	74.00
165	1236.6	4/12.4, 40/30.7, 4/44, 40/52.2, 4/59.9, 40/66.7, 4/72.9, 40/74.6, 4	0.98	38.37	56.46	93.39
170	1632.6	4/6.3, 40/72.6, 4/78.3, 40/93, 4/96.9, 2	1.24	77.25	100.59	127.82

TABLE 10.1.2 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	1000 mV/m Contour (km)	5 mV/m Contour (km)	2 mV/m Contour (km)	0.5 mV/m Contour (km)
175	2028.5	4/7.4, 40/68.6, 4/76, 40/89.8, 4/95, 40/98.1, 5000/102, 2/119.1, 5000	1.48	77.66	105.94	233.63
180	2405.8	4/9, 40/97.7, 5000/139.1, 4/152.9, 5000/165.3, 4/175.3, 5000/176.7, 4/199.3, 5000/207.4, 2	1.70	113.32	152.89	211.20
185	2748.8	4/11.6, 40/98.1, 5000/109.5, 4/119.8, 5000/125.8, 4/144.4, 5000/159.7, 4	1.88	109.67	132.39	188.23
190	3047.4	2**	1.59	---	---	---
		3**	---	31.60	---	---
		3** } 1.5** } } avg.	---	---	46.00	---
		1.5**	---	---	---	69.50
195	3296.6	2**	1.68	---	---	---
		3**	---	32.75	---	---
		3** } 1.5** } } avg.	---	---	46.00	---
		1.5**	---	---	---	71.98
200	3495.4	2**	1.75	---	---	---
		3**	---	33.63	---	---
		3** } 1.5** } } avg.	---	---	46.00	---
		1.5**	---	---	---	73.88

TABLE 10.1.2 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	1000 mV/m Contour (km)	5 mV/m Contour (km)	2 mV/m Contour (km)	0.5 mV/m Contour (km)
205	3645.8	4**	2.34	---	---	---
		3**	---	34.28	---	---
		3** } avg.	---	---	40.00	---
		0.5** }	---	---	---	62.78
		0.5**	---	---	---	---
210	3751.1	4**	2.39	---	---	---
		3**	---	34.73	---	---
		3** } avg.	---	---	40.00	---
		0.5** }	---	---	---	63.60
		0.5**	---	---	---	---
215	3814.9	2**	1.86	---	---	---
		3**	---	34.99	53.04	97.41
220	3839.9	2**	1.86	---	---	---
		3**	---	35.10	53.20	97.68
225	3827.5	1.5**	1.67	---	---	---
		3**/35.4, 4/81.5, 2	---	35.05	55.24	99.85
230	3777.2	1.5**	1.65	---	---	---
		3**/35.4, 4/53.4, 2	---	34.84	54.56	93.39
235	3687.0	1.5**	1.63	---	---	---
		3**/35.4, 4/38, 2	---	34.46	50.53	88.99
240	3554.1	1.5**/47.2, 2	1.59	25.60	39.43	76.65
245	3375.1	1.5**/47.2, 2	1.53	24.99	38.49	74.83
250	3148.1	1.5**/47.2, 2	1.46	24.18	37.25	72.43

TABLE 10.1.2 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>
255	2873.3	1.5**/47.2, 2	1.37	23.16	35.69	69.39
260	2554.6	4/21.7, 2	1.78	30.71	43.68	76.74
265	2200.6	4/20.5, 2	1.58	28.78	40.88	71.90
270	1824.9	1** 0.5**	0.88 ---	--- 14.92	--- 23.38	--- 45.51
275	1445.3	1** 0.5**	0.75 ---	--- 13.30	--- 20.86	--- 40.75
280	1082.5	1** 0.5**	0.60 ---	--- 11.53	--- 18.11	--- 35.50
285	757.3	1** 0.5**	0.46 ---	--- 9.65	--- 15.19	--- 29.89
290	487.7	4/18.7, 2	0.43	16.09	22.83	38.48
295	286.9	4/18.8, 2	0.26	12.51	19.07	31.30
300	161.6	4/20.3, 2	0.15	9.36	14.74	25.69
305	106.1	4	0.11	7.44	12.04	22.84
310	89.0	1.5* 0.5*	0.09 ---	4.21 ---	--- 5.17	--- 10.46
315	83.6	1.5* 0.5*	0.08 ---	4.06 ---	--- 5.00	--- 10.14

TABLE 10.1.2 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>
320	92.8	1.5* 0.5*	0.09 ---	4.30 ---	--- 5.28	--- 10.68
325	113.0	1*	0.11	4.15	6.67	13.18
330	124.7	1*	0.12	4.37	7.01	13.83
335	118.8	1*	0.12	4.26	6.84	13.50
340	97.6	1*	0.10	3.83	6.19	12.28
345	75.0	1.5*	0.07	3.83	6.22	12.26
350	68.7	1.5*	0.07	3.64	5.95	11.76
355	74.3	1.5*	0.07	3.81	6.20	12.21

*Measured conductivity data extracted from WWLG 2002 full proof of performance (BL-20020827ACC) and reproduced in Appendix D to Exhibit 14 of the attached application.

**Measured conductivity data obtained using the WW3XLG test transmitter and reproduced in Appendix E to Exhibit 14 of the attached application.

***Measured conductivity data from Appendix H to Exhibit 14 to the attached application.

All other conductivity data extracted from FCC Figure M3.

TABLE 10.1.3

WWLG PROPOSED DAYTIME
SERVICE CONTOURS
M-10 Broadcasting, Inc.
Pikesville, MD

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	1000 mV/m Contour (km)	5 mV/m Contour (km)	2 mV/m Contour (km)	0.5 mV/m Contour (km)
0	127.2	4	0.13	8.23	13.15	24.75
5	132.2	4	0.13	8.40	13.40	25.17
10	126.8	4	0.13	8.21	13.13	24.71
15	114.7	2*	0.11	5.48	8.73	---
		1*	---	---	---	13.28
20	103.5	2*	0.10	5.18	8.30	---
		2* } 1* }	---	---	---	13.00
		} avg.				
25	100.1	2*	0.10	5.09	8.16	---
		2* } 1* }	---	---	---	13.00
		} avg.				
30	104.8	2*	0.10	5.22	8.35	---
		2* } 1* }	---	---	---	13.00
		} avg.				
35	111.5	3***	0.11	---	---	---
		1.5***	---	4.75	7.60	14.80
40	113.9	3***	0.11	---	---	---
		1.5***	---	4.80	7.68	14.95

TABLE 10.1.3 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>
45	109.5	3***	0.11	---	---	---
		1.5***	---	4.70	7.53	14.67
50	99.7	2**	0.10	5.08	8.14	---
		1.5**	---	---	---	14.03
55	90.0	2**	0.09	4.80	7.74	---
		2** } 1.5** } } avg.	---	---	---	13.50
60	87.7	2**	0.09	4.74	7.65	---
		2** } 1.5** } } avg.	---	---	---	13.50
65	94.0	2**	0.09	4.92	7.91	---
		1.5**	---	---	---	13.65
70	102.9	0.1**	0.10	---	---	---
		3**	---	6.31	10.15	---
		3** } 1** } } avg.	---	---	---	13.00
75	107.2	0.1**	0.11	---	---	---
		3**	---	6.45	10.35	---
		3** } 1** } } avg.	---	---	---	13.00
80	102.5	0.1**	0.10	---	---	---
		3**	---	6.30	10.13	---
		3** } 1** } } avg.	---	---	---	13.00

TABLE 10.1.3 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>	
85	90.3	0.1**	0.09	---	---	---	
		3**	---	5.87	9.52	---	
		3**}	} avg.	---	---	---	13.00
		1**}					
90	79.4	1.5*	0.08	---	---	---	
		2*	---	4.48	---	---	
		3*/12, 4	---	---	8.92	18.04	
95	80.7	1.5*	0.08	---	---	---	
		2*	---	4.52	---	---	
		3*/12, 4/17.4, 40	---	---	9.00	20.68	
100	91.2	1.5*	0.09	---	---	---	
		2*	---	4.84	---	---	
		3*/12, 4/16.3, 40/27.4, 4	---	---	9.56	27.77	
105	95.9	1*	0.10	---	---	---	
		2* }	} avg.	---	4.80	---	---
		1.5* }					
		3*	---	---	9.81	18.75	
110	87.3	1*	0.09	---	---	---	
		2*	---	4.72	---	---	
		3*	---	---	9.36	17.97	
115	79.9	1*	0.08	---	---	---	
		2*	---	4.50	---	---	
		1.5*	---	---	6.43	---	
		3*	---	---	---	17.27	

TABLE 10.1.3 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>	
120	109.3	1*	0.11	---	---	---	
		2* }	} avg.	---	4.80	---	---
		1.5* }					
		3*	---	---	10.45	19.89	
125	165.0	1.5*	0.14	---	---	---	
		4*	---	9.46	14.88	---	
		4* }	} avg.	---	---	---	26.00
		3* }					
130	208.1	1.5*	0.17	---	---	---	
		4*	---	10.66	16.58	---	
		4* }	} avg.	---	---	---	26.00
		3* }					
135	221.5	1.5*	0.18	---	---	---	
		4*	---	11.01	17.06	---	
		3*	---	---	---	27.35	
		1.5*	0.19	---	---	---	
140	243.2	4*	---	11.54	17.80	---	
		3*	---	---	---	28.54	
		1.5*	0.20	---	---	---	
		4*	---	11.62	17.92	---	
145	246.9	3*	---	---	---	28.73	
		1.5*	0.31	---	---	---	
		4*	---	15.10	22.87	---	
		3*	---	---	---	36.77	

TABLE 10.1.3 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>
155	825.5	4/14, 40/23.4, 4/41.1, 40/45.1, 4	0.69	27.61	37.82	66.68
160	1332.5	4/14.4, 40/26.5, 4/40, 40/47.9, 4/64.5, 40/66.5, 4	1.04	34.47	52.76	86.18
165	1908.1	4/12.4, 40/30.7, 4/44, 40/52.2, 4/59.9, 40/66.7, 4/72.9, 40/74.6, 4/96, 40/97.3, 4/97.8, 2	1.41	43.52	68.94	106.00
170	2518.6	4/6.3, 40/72.6, 4/78.3, 40/93, 4/96.9, 2/131.5, 5000	1.76	93.75	107.38	182.95
175	3130.1	4/7.4, 40/68.6, 4/76, 40/89.8, 4/95, 40/98.1, 5000/102, 2/119.1, 5000/282.9, 4	2.09	92.48	113.44	289.02
180	3712.2	4/9, 40/97.7, 5000/139.1, 4/152.9, 5000/165.3, 4/175.3, 5000/176.7, 4/199.3, 5000/207.4, 2/212.7, 5000/214.2, 2	2.37	143.38	174.02	226.90
185	4241.5	4/11.6, 40/98.1, 5000/109.5, 4/119.8, 5000/125.8, 4/144.4, 5000/159.7, 4/192.9, 5000/201.3, 2	2.62	117.04	143.47	211.17
190	4702.2	2**	2.14	---	---	---
		3**	---	38.48	---	---
		3** } 1.5** } } avg.	---	---	46.00	---
		1.5**	---	---	---	84.14
		1.5**	---	---	---	---

TABLE 10.1.3 (cont'd)

Azimuth (Degrees)	Radiation (mV/m at 1 km)	Conductivities (mmhos/m/ending distance (km))	1000 mV/m Contour (km)	5 mV/m Contour (km)	2 mV/m Contour (km)	0.5 mV/m Contour (km)
195	5086.7	2**	2.25	---	---	---
		3**	---	39.88	---	---
		1.5**	---	---	46.61	87.06
200	5393.5	2**	2.34	---	---	---
		3**	---	40.96	---	---
		1.5**	---	---	47.90	89.27
205	5625.5	4**	3.21	---	---	---
		3** } 0.5** } } avg.	---	40.00	---	---
		0.5**	---	---	40.23	76.33
210	5788.0	4**	3.28	---	---	---
		3** } 0.5** } } avg.	---	40.00	---	---
		0.5**	---	---	40.78	77.30
215	5886.4	2**	2.47	---	---	---
		3**	---	42.62	64.44	---
		3** } 1.5** } } avg.	---	---	---	100.00
220	5925.1	2**	2.48	---	---	---
		3**	---	42.74	64.62	---
		3** } 1.5** } } avg.	---	---	---	100.00
225	5905.9	1.5**	2.21	---	---	---
		3**/35.4, 4/81.5, 2	---	43.57	67.94	116.89

TABLE 10.1.3 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>
230	5828.3	1.5** 3**/35.4, 4/53.4, 2	2.19 ---	--- 43.28	--- 64.43	--- 110.36
235	5689.2	1.5** 3**/35.4, 4/38, 2	2.15 ---	--- 41.65	--- 60.31	--- 105.82
240	5484.1	1.5**/47.2, 2	2.10	31.43	48.37	93.25
245	5208.0	1.5**/47.2, 2	2.04	30.67	47.13	91.14
250	4857.7	1.5**/47.2, 2	1.95	29.68	45.63	88.36
255	4433.6	1.5**/47.2, 2	1.84	28.42	43.72	84.79
260	3941.8	4/21.7, 2	2.48	36.17	52.00	91.49
265	3395.6	4/20.5, 2	2.22	33.86	48.65	85.85
270	2815.8	1** 0.5**/55, 2	1.19 ---	--- 18.47	--- 28.86	--- 55.94
275	2230.2	1** 0.5**	1.01 ---	--- 16.47	--- 25.77	--- 50.01
280	1670.3	1** 0.5**	0.83 ---	--- 14.29	--- 22.39	--- 43.65
285	1168.5	1** 0.5**	0.64 ---	--- 11.97	--- 18.80	--- 36.83
290	752.5	4/18.7, 2	0.63	19.35	26.68	45.84
295	442.7	4/18.8, 2	0.39	15.38	22.09	37.06

TABLE 10.1.3 (cont'd)

<u>Azimuth (Degrees)</u>	<u>Radiation (mV/m at 1 km)</u>	<u>Conductivities (mmhos/m/ending distance (km))</u>	<u>1000 mV/m Contour (km)</u>	<u>5 mV/m Contour (km)</u>	<u>2 mV/m Contour (km)</u>	<u>0.5 mV/m Contour (km)</u>
300	249.4	4/20.3, 2	0.23	11.68	18.01	30.09
305	163.6	4	0.15	9.42	14.83	27.66
310	137.4	1.5*	0.14	---	---	---
		1.5* } avg.	---	4.40	---	---
		0.5* }	---	---	6.47	12.97
		0.5*	---	---	---	---
315	129.0	1.5*	0.13	---	---	---
		1.5* } avg.	---	4.40	---	---
		0.5* }	---	---	6.26	12.57
		0.5*	---	---	---	---
320	143.1	1.5*	0.14	---	---	---
		1.5* } avg.	---	4.40	---	---
		0.5* }	---	---	6.61	13.24
		0.5*	---	---	---	---
325	174.4	1*	0.13	5.21	8.28	---
		1* } avg.	---	---	---	14.00
		0.1* }	---	---	---	---
330	192.4	1*	0.15	5.48	8.69	---
		0.1*	---	---	---	14.53
335	183.3	1*	0.14	5.35	8.49	---
		0.1*	---	---	---	14.18

TABLE 10.1.3 (cont'd)

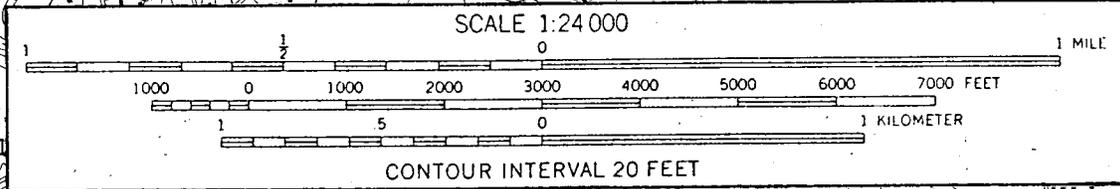
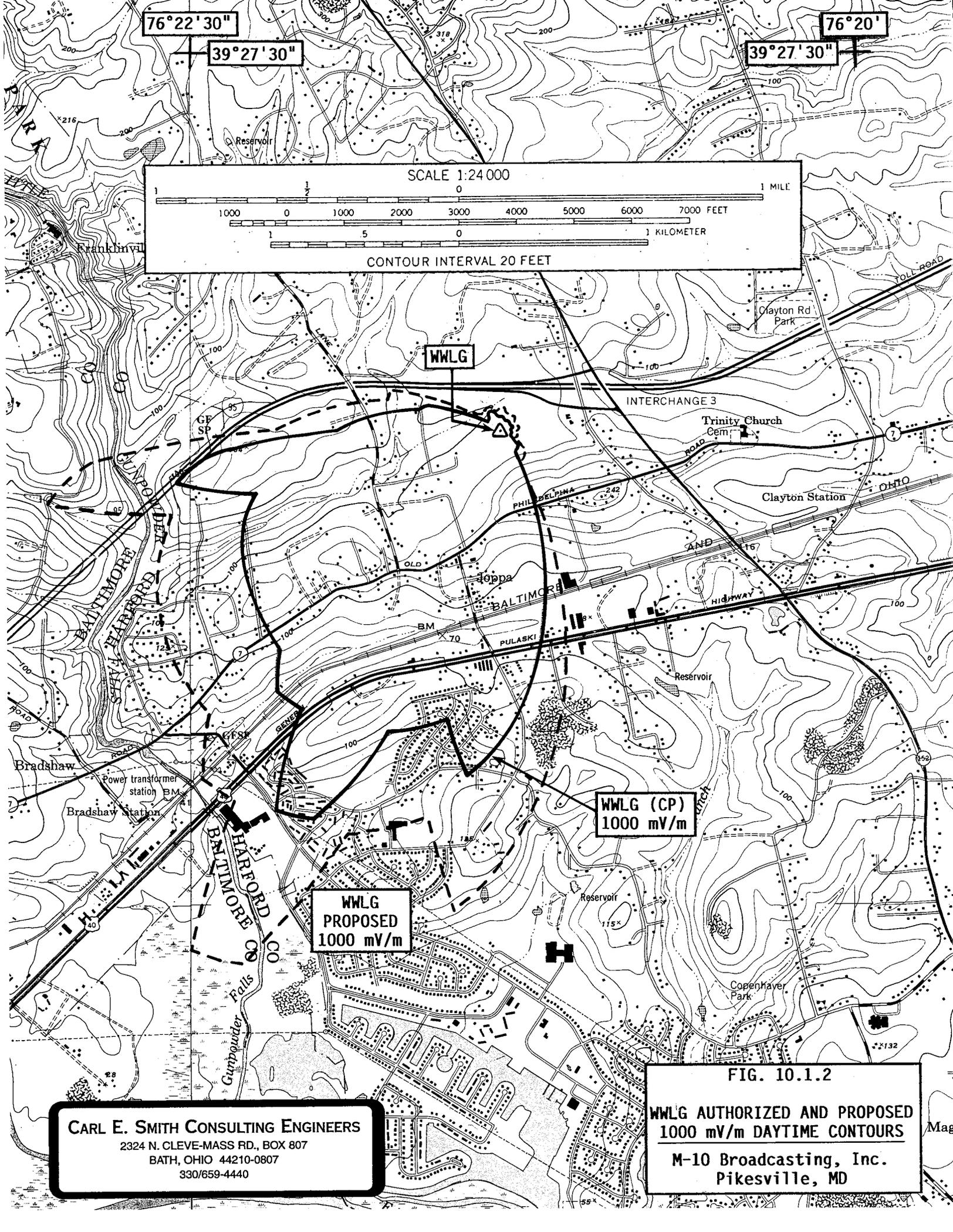
340	150.5	1*	0.12	4.83	7.70	---
		1* } 0.1* } avg.	---	---	---	14.00
345	115.7	1.5*	0.12	4.84	7.74	15.06
350	106.1	1.5*	0.11	4.62	7.41	14.45
355	114.7	1.5*	0.11	4.82	7.70	15.00

*Measured conductivity data extracted from WWLG 2002 full proof of performance (BL-20020827ACC) and reproduced in Appendix D to Exhibit 14 of the attached application.

**Measured conductivity data obtained using the WW3XLG test transmitter and reproduced in Appendix E to Exhibit 14 of the attached application.

***Measured conductivity data from Appendix H to Exhibit 14 to the attached application.

All other conductivity data extracted from FCC Figure M3.



WWLG

WWLG (CP)
1000 mV/m

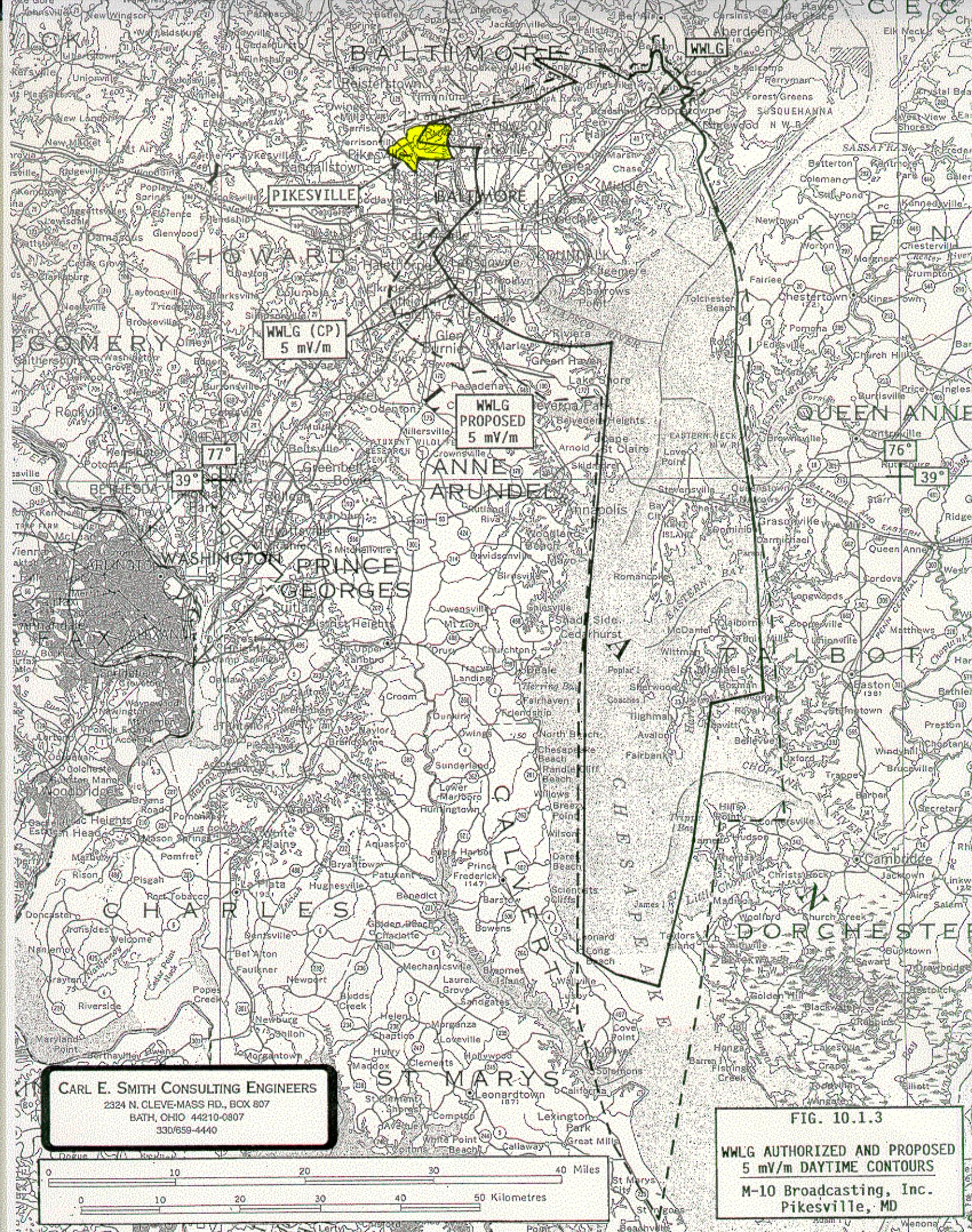
WWLG
PROPOSED
1000 mV/m

FIG. 10.1.2

WWLG AUTHORIZED AND PROPOSED
1000 mV/m DAYTIME CONTOURS

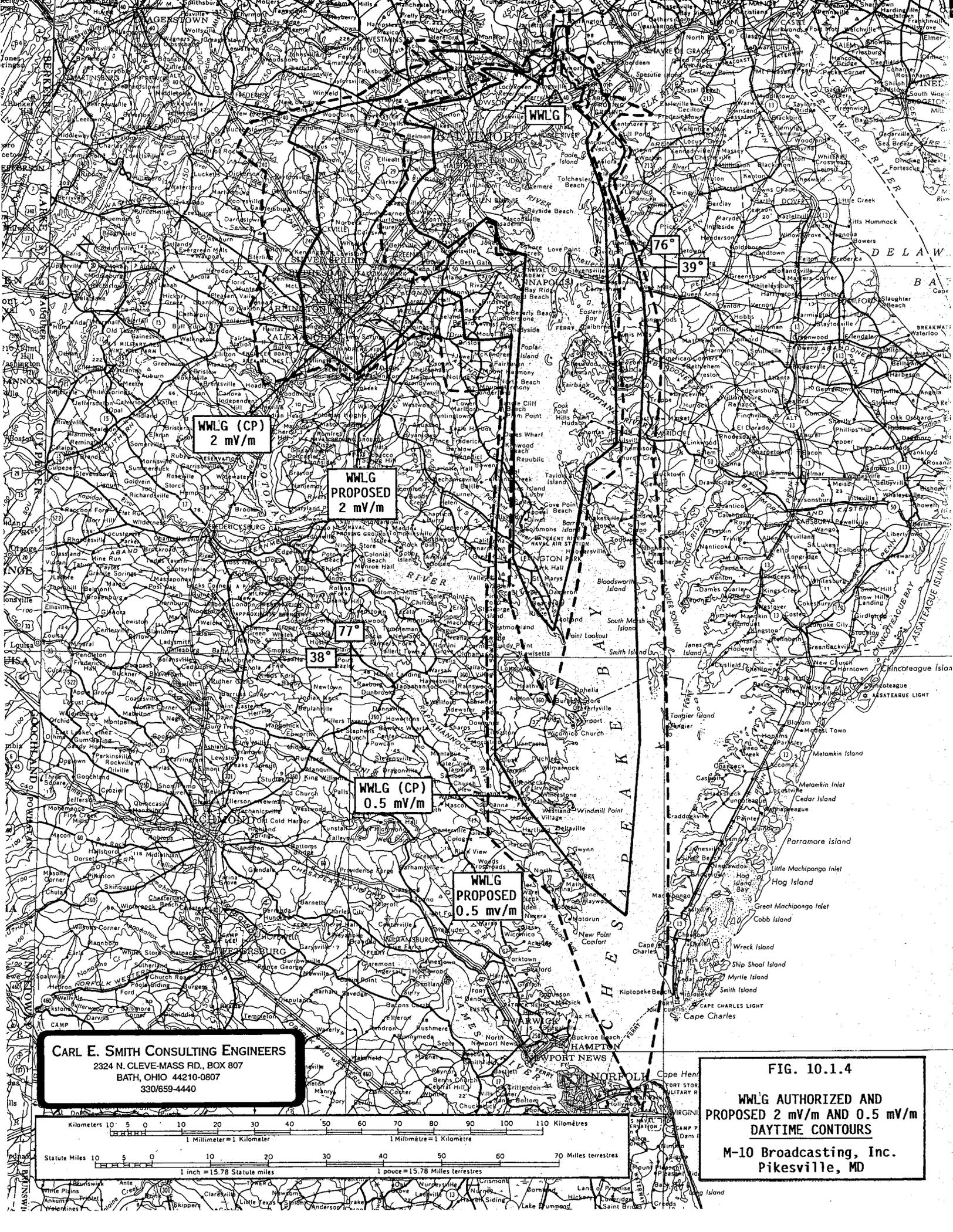
M-10 Broadcasting, Inc.
Pikesville, MD

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 330/659-4440

FIG. 10.1.3
WVLG AUTHORIZED AND PROPOSED
5 mV/m DAYTIME CONTOURS
M-10 Broadcasting, Inc.
Pikesville, MD



WMLG (CP)
2 mV/m

WMLG
PROPOSED
2 mV/m

WMLG (CP)
0.5 mV/m

WMLG
PROPOSED
0.5 mV/m

CARL E. SMITH CONSULTING ENGINEERS
2324 N. CLEVE-MASS RD., BOX 807
BATH, OHIO 44210-0807
330/659-4440

FIG. 10.1.4
WMLG AUTHORIZED AND PROPOSED 2 mV/m AND 0.5 mV/m DAYTIME CONTOURS
M-10 Broadcasting, Inc.
Pikesville, MD

