

TECHNICAL EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
CLEAR CHANNEL BROADCASTING LICENSES, INC.
RADIO STATION WLAN
LANCASTER, PENNSYLVANIA

March 10, 2010

1390 KHZ 1.1 KW-D 18 W-N ND

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Technical Narrative

The technical exhibit of which this narrative is part has been prepared on behalf of Clear Channel Broadcasting Licenses, Inc., licensee of AM broadcast station WLAN at Lancaster, Pennsylvania. WLAN is licensed as a Class B station for operation on 1390 kilohertz with daytime power of 5 kilowatts and nighttime power of 1 kilowatt, operating with different directional antenna patterns during daytime and nighttime hours. By means of this present application, the licensee proposes to change transmitter site locations with a new non-directional antenna for both daytime and nighttime operation. WLAN proposes to co-locate with existing AM station, WLPA operating on 1490 kilohertz. The daytime power will be reduced to 1.1 kilowatts while the nighttime power will be reduced to 18 watts and secondary operation. The daytime and nighttime services are proposed from the same site location.

The proposal is classified as a minor change according to 47 CFR 73.3571(a)(2). As a Class D station operating on one of the channels listed in 73.26(a), the proposal satisfies 47 CFR 73.21(a)(3) which permits operation with a nominal power of not less than 0.25 kilowatt nor more than 50 kilowatts during

daytime hours. The Federal Aviation Administration has not been notified of the proposal as new tower construction is not proposed.

Proposed Transmitter Location

The location of the proposed WLAN facility will be co-located with existing station WLPA and is at NAD27 coordinates:

40-03-38 North

76-18-59 West

The antenna site plat is shown on Figure 1.

Non-Directional Antenna System

The existing WLPA tower will be employed for daytime and nighttime non-directional operation. As indicated on Figure 2, the radiating element for the tower is 59.7 meters (196 feet) in height and has an overall height of 60.6 meters (199 feet) above ground level. The electrical height of the radiating portion of the proposed antenna is 99.6 degrees with a calculated effective field at one kilometer for one kilowatt of 305.5 mV/m that includes a -6.4 mV/m correction factor due to an average radial length of 0.225λ .

Section 73.24(g)

The provisions of 47 CFR 73.24(g) require that the number of persons within the 1,000 mV/m contour is 300 or less. At the proposed location, during daytime or nighttime hours, the proposed 1,000 mV/m contour encompasses 0 persons thus the provisions of 47 CFR 73.24(g) are met.

Daytime Coverage

The proposed WLAN daytime field strength contours are depicted on Figure 3 and the existing daytime field strength contours are shown on Figure 4. As indicated on Figure 3, the proposed daytime 5 mV/m contour will completely encompass the city limits of Lancaster. The Lancaster city limits depicted were obtained from a map contained in the TIGER 2000 U.S. census files.

Daytime Allocation Study

A daytime allocation study was made utilizing FCC Figure M-3 as shown on Figure 5. Daytime field strength contours were calculated in accordance with 47 CFR 73.183. Figure 6 is a tabulation of the data employed in the calculation of daytime contours. Based on this analysis, the proposed WLAN facility will comply with all relevant allocation criteria.

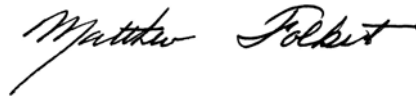
Nighttime Allocation Study

The proposed WLAN secondary nighttime facility will afford nighttime protection to all stations and international allotments operating on 1380 kHz, 1390 kHz, and 1400 kHz. Figure 7 contains pertinent calculation data to support a conclusion that this proposal comports with all nighttime interference protection requirements.

Environmental Considerations

The proposed WLAN operation was evaluated, in conjunction with host station WLPAs, in terms of both the electric and magnetic field components which will be present at the base of the tower. Using Figures 1 through 4 of Supplement A to OET Bulletin 65, the worst case interpolated distance at which the

electric and magnetic fields would fall below ANSI guidelines is 2 meters. Accordingly, the area surrounding the base of the tower will be appropriately restricted with a fence having a minimum radius of 2 meters (7 feet) unless data obtained after construction has been completed indicates otherwise. The fence will assure that persons on the property outside the fenced area will not be exposed to radiofrequency field levels in excess of those recommended by the ANSI. In addition, warning signs will be posted.

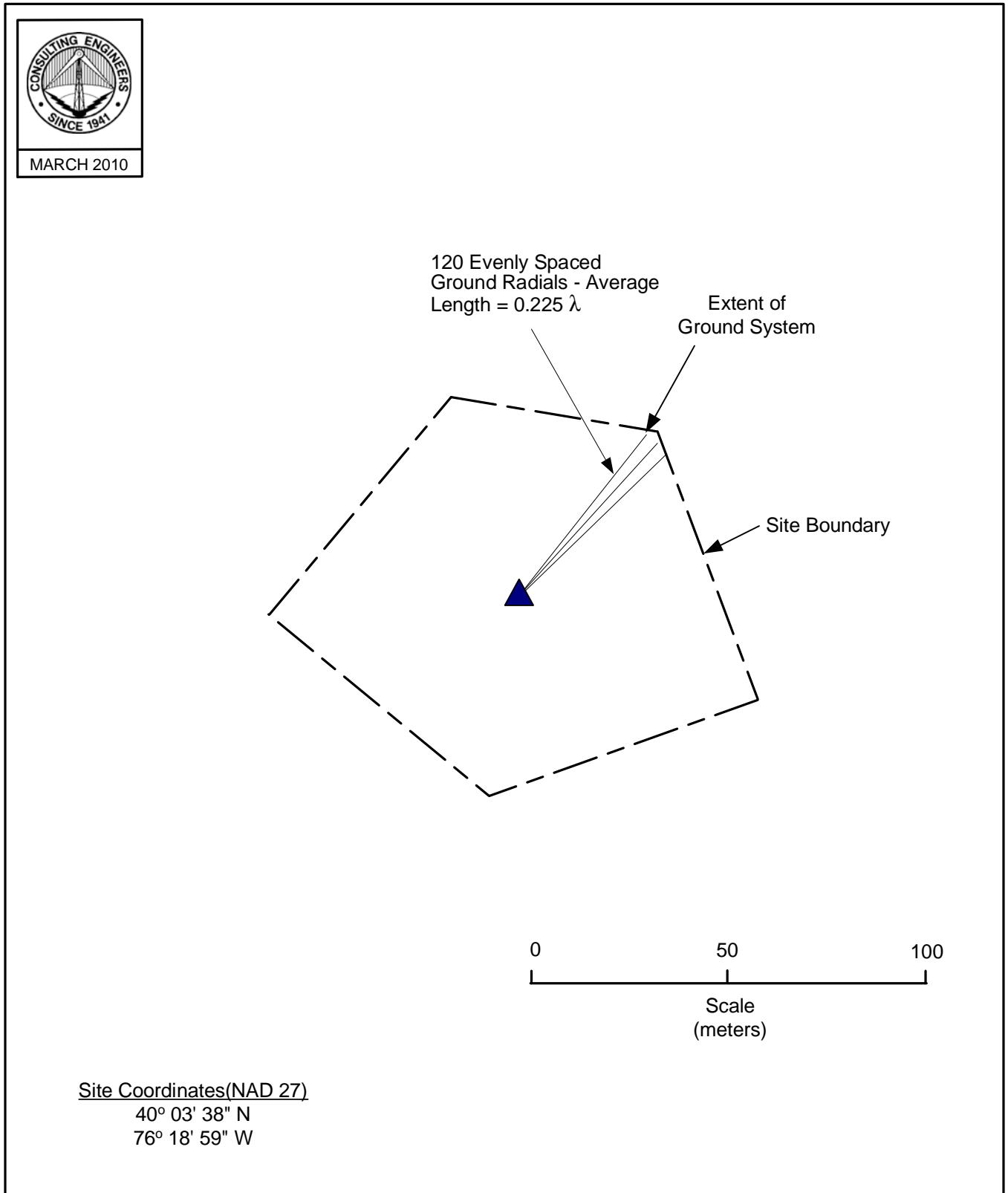
A handwritten signature in black ink, reading "Matthew Folkert". The signature is written in a cursive style with a large, stylized 'M' and 'F'.

Matthew Folkert
du Treil, Lundin & Rackley, Inc.
201 Fletcher Avenue
Sarasota, Florida 34237

(941) 329-6000

March 10, 2010

Figure 1

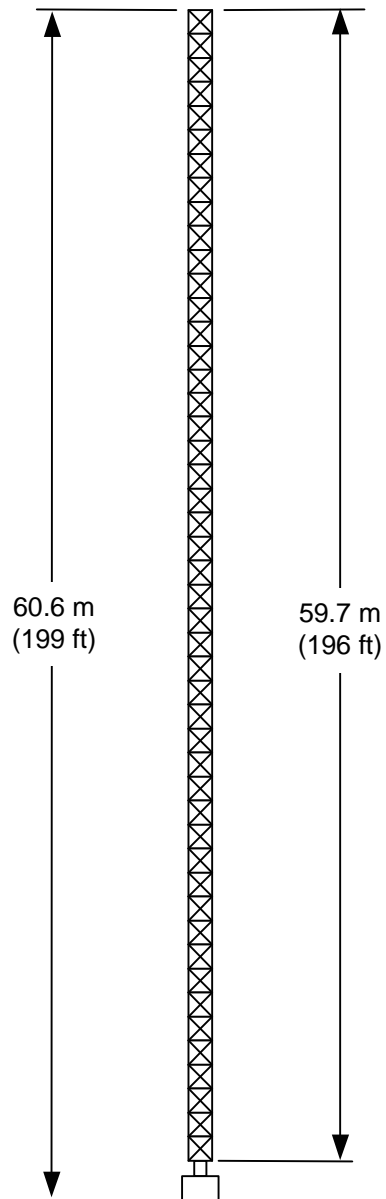
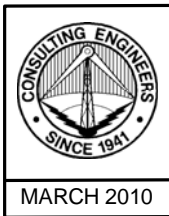


ANTENNA SITE PLAT

RADIO STATION WLAN
LANCASTER, PENNSYLVANIA
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Figure 2



Site Coordinates(NAD 27)

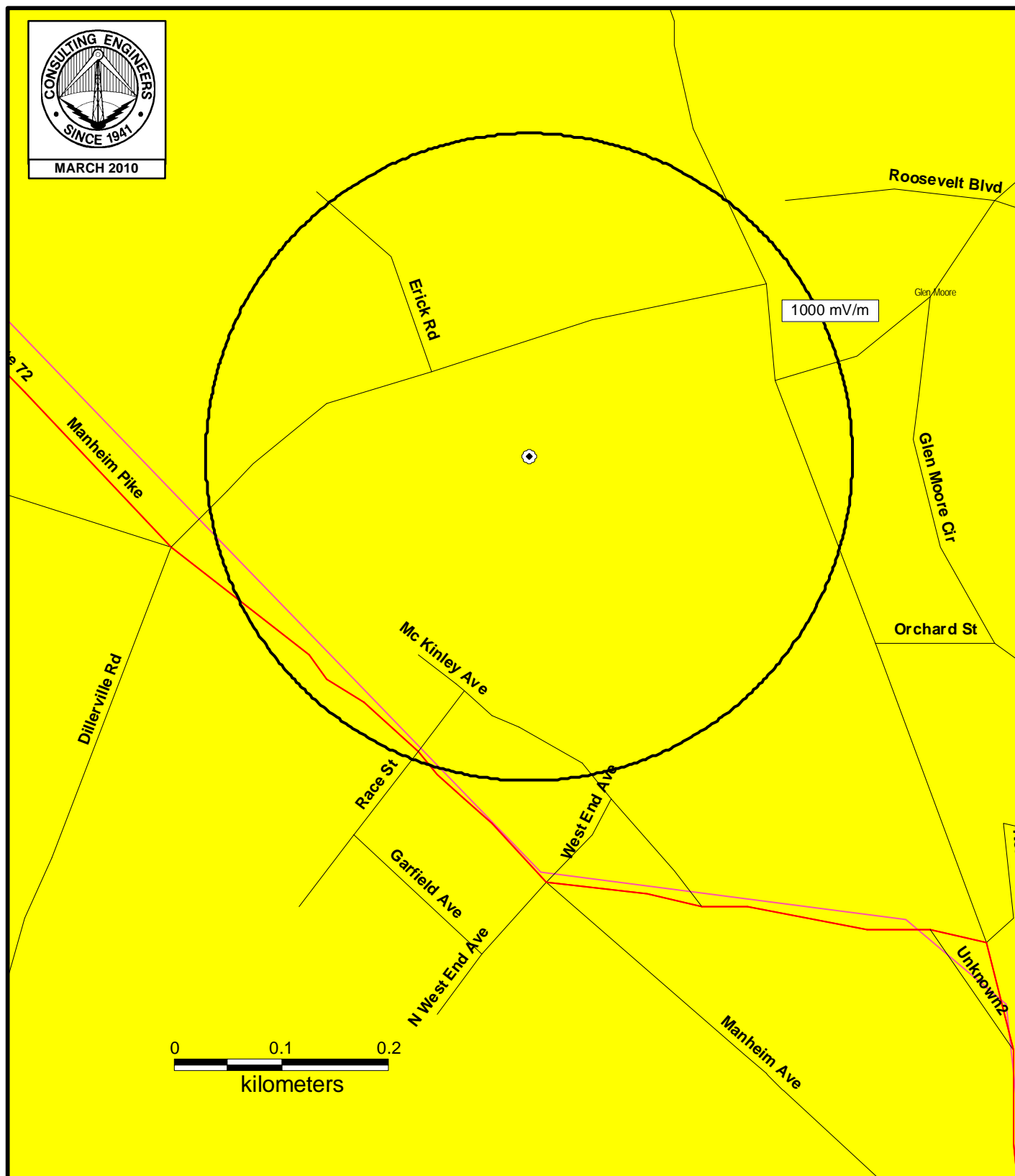
40° 03' 38" N
76° 18' 59" W

Not To Scale

SKETCH OF ANTENNA ELEMENT

RADIO STATION WLAN
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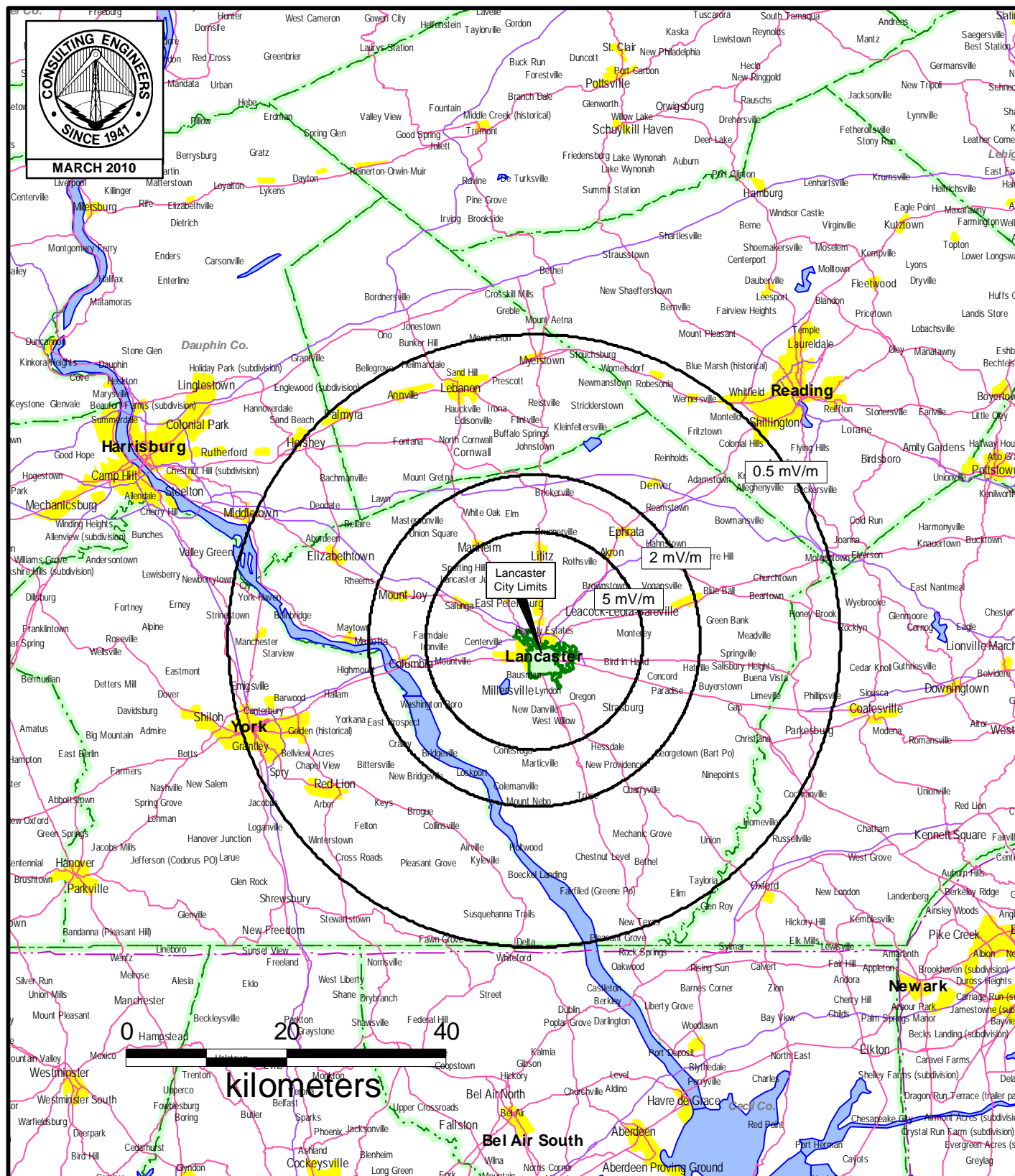
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PROPOSED DAYTIME FIELD STRENGTH CONTOURS

RADIO STATION WLAN
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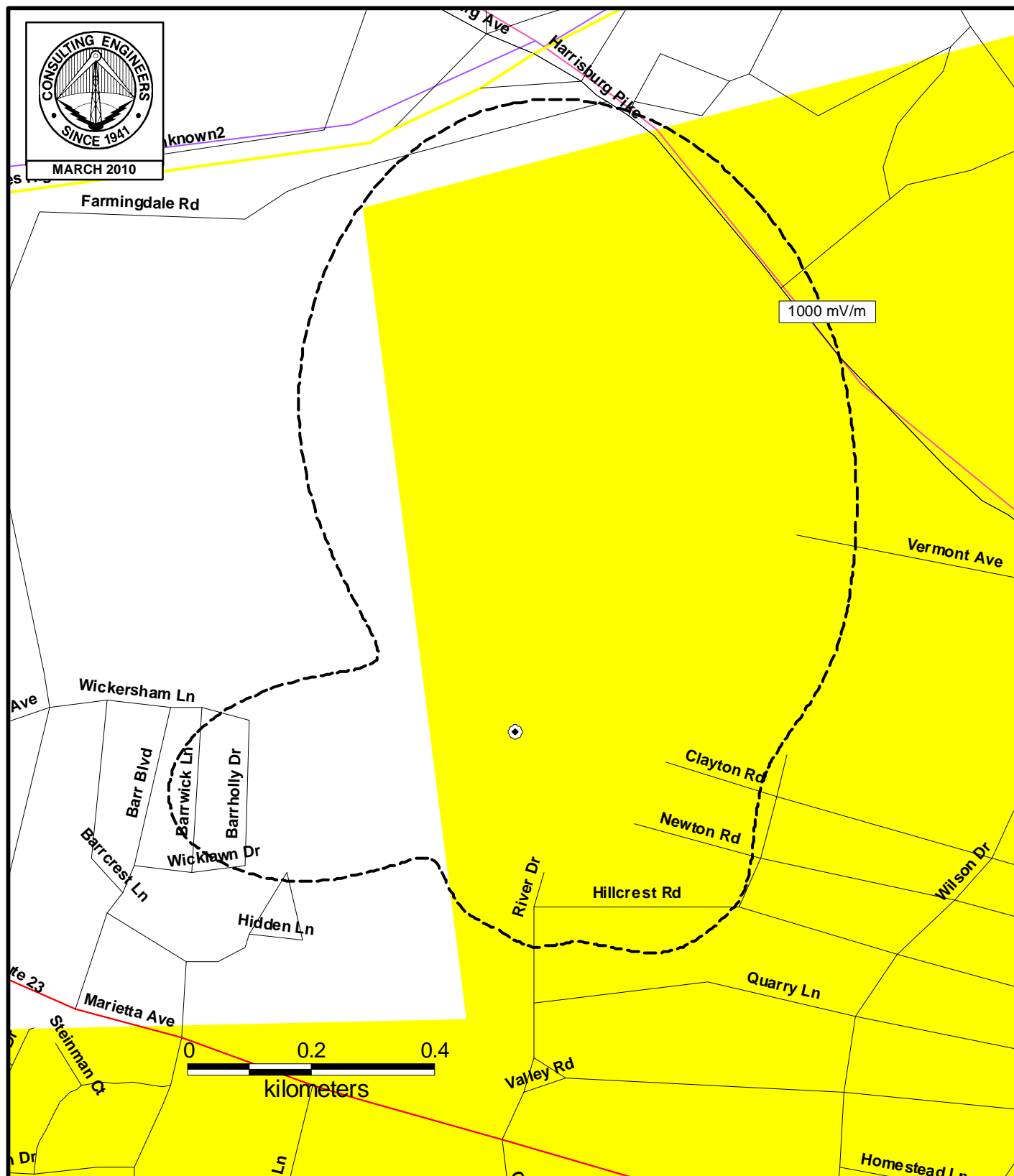
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RADIO STATION WLAN
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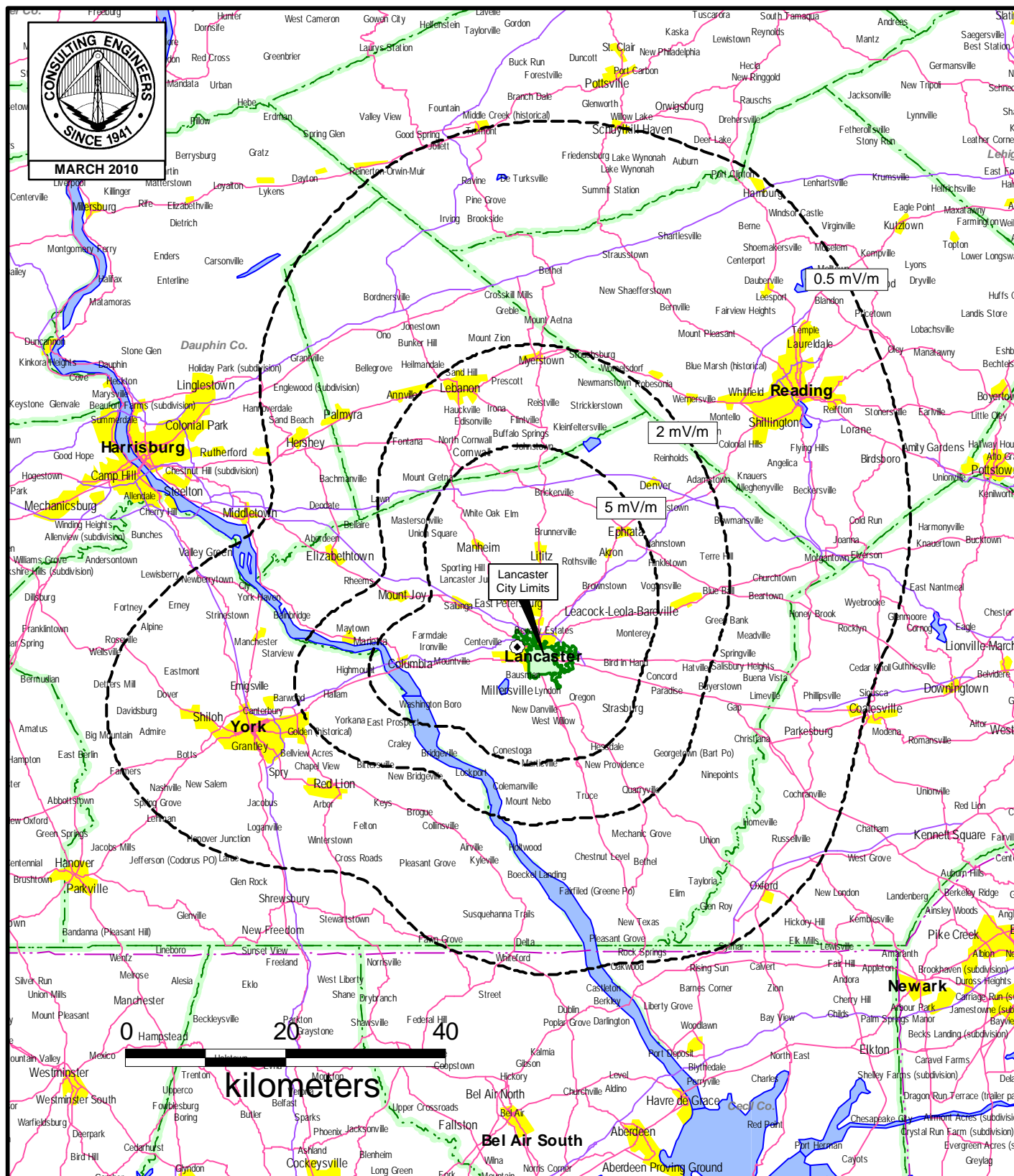
du Treil, Lundin & Rackley, Inc. Sarasota, Florida



EXISTING DAYTIME FIELD STRENGTH CONTOURS

RADIO STATION WLAN
LANCASTER, PENNSYLVANIA
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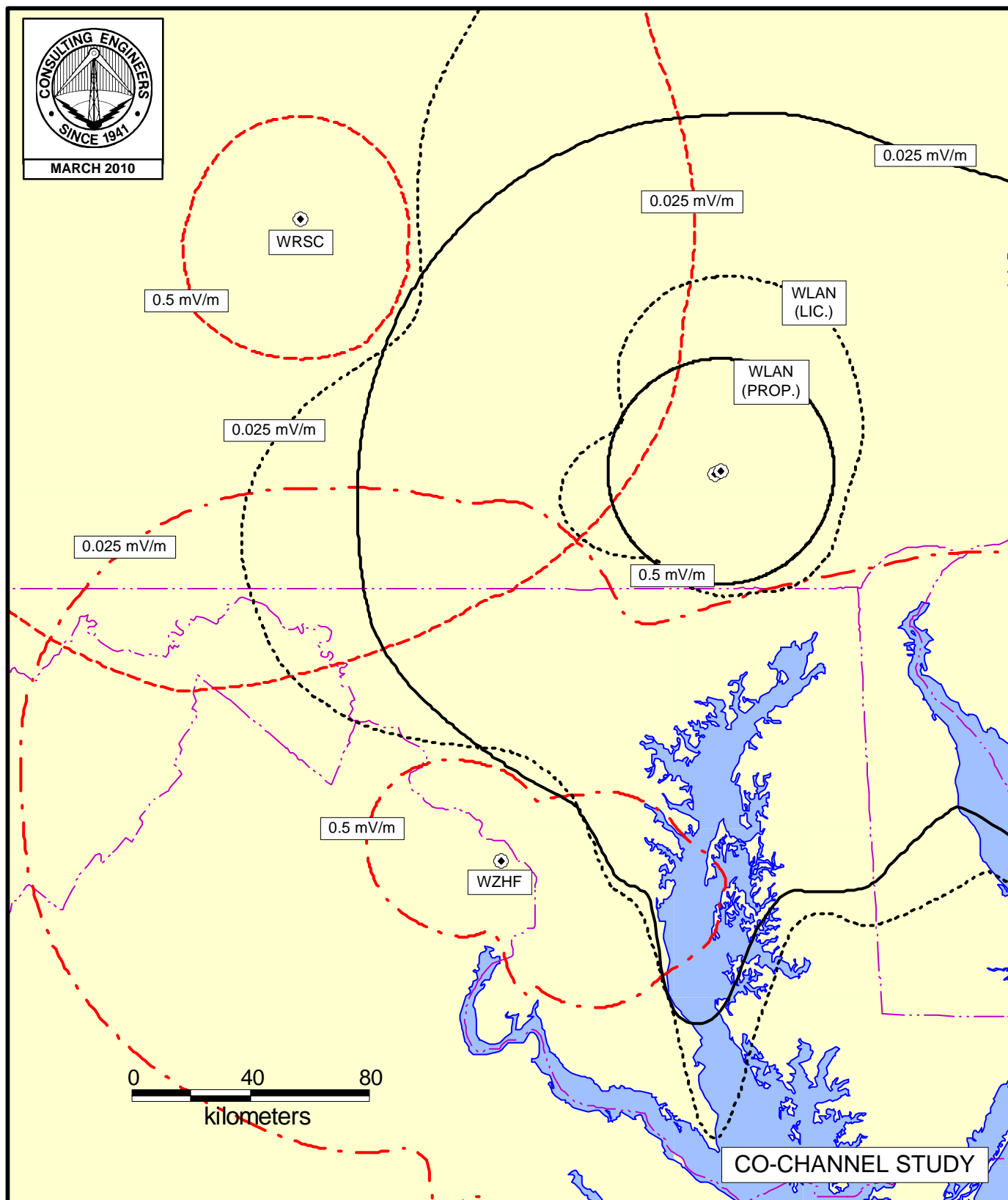
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EXISTING DAYTIME FIELD STRENGTH CONTOURS

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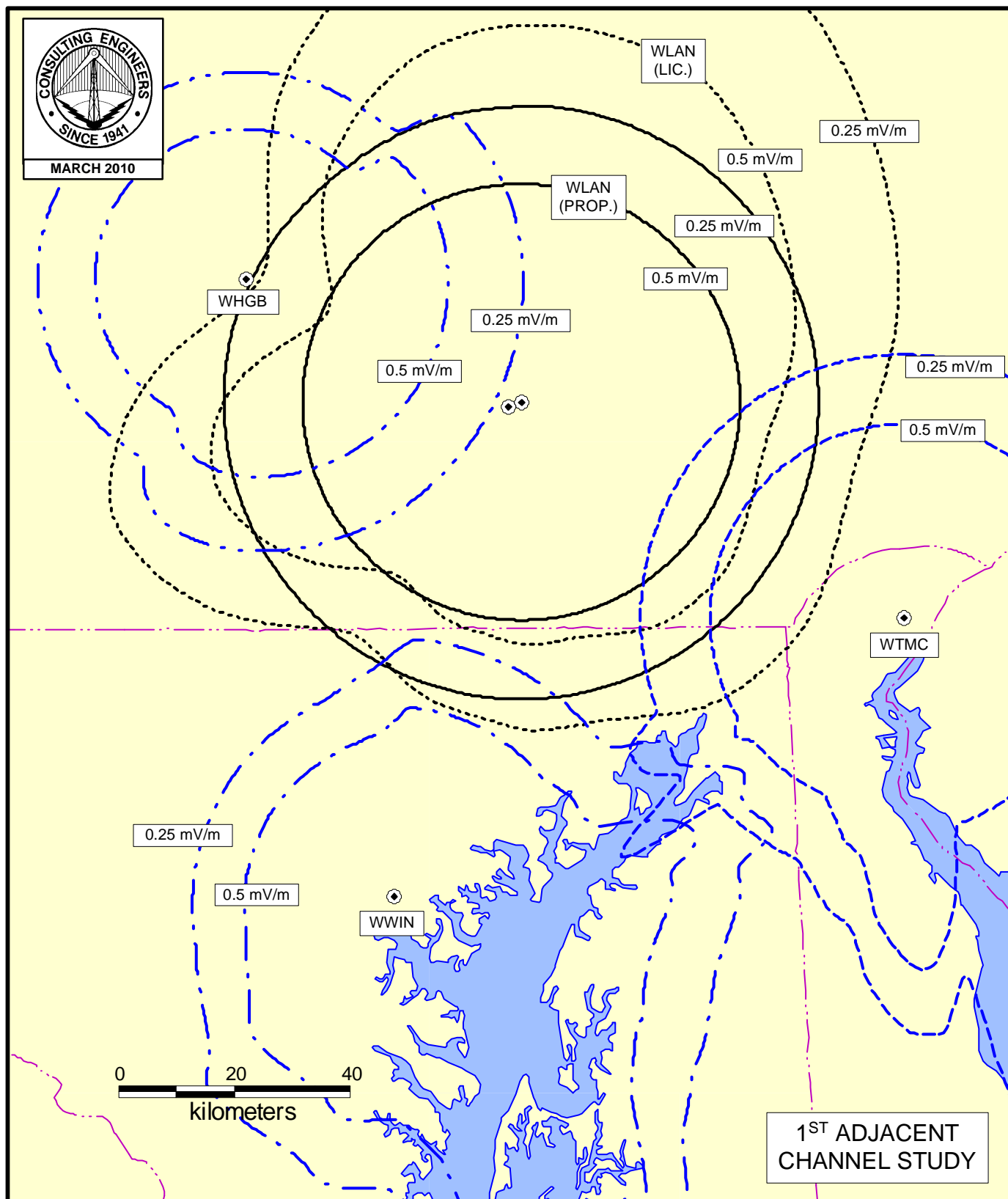
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DAYTIME ALLOCATION STUDY

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Tabulation of Data Employed in
Calculation of Groundwave Contours

Reference Station: WLAN, 1390 kHz
Location: 40-03-38 N, 076-18-59 W

1380 kHz Station

75.0 km WTCM L 39-43-46 N 075-33-07 W 0.52 kW ND1 - 340.0 mV/m@1km
46.6 mi Azi: 119.6 Class: D Sched: U File #: BL19980708AC
Location: WILMINGTON, DE, US

1390 kHz Stations

147.7 km WZHF L 38-54-15 N 077-09-54 W 5.0 kW DA2 - 743.5 mV/m@1km
91.8 mi Azi: 209.4 Class: B Sched: U File #: BL19880129AJ
Location: ARLINGTON, VA, US

[illegible]

1400 kHz Stations

51.4 km WHGB L 40-14-58 N 076-52-03 W 1.0 kW ND1 - 283.2 mV/m@1km
32.0 mi Azi: 293.9 Class: C Sched: U File #: BL19800804AF
Location: HARRISBURG, PA, US

87.0 km WWIN L 39-18-06 N 076-34-09 W 0.5 kW ND2 - 331.8 mV/m@1km
54.1 mi Azi: 194.4 Class: C Sched: U File #: BL20070205AEV
 Location: BALTIMORE, MD, US

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Nighttime Allocation Study

Night Allocation Protection Report

Call: WLAN
Freq: 1390 kHz
LANCASTER, PA, US
Hours: N
Lat: 40-03-38 N
Lng: 076-18-59 W
Power: 0.018 kW
Theo RMS: 305.50 mV/m @ 1km @ 1kW

#	Field Ratio	Phase (deg)	Spacing (deg)	Orient (deg)	Height (deg)	Ref Switch	TL Switch	A (deg)	B (deg)	C (deg)	D (deg)
1	1.000	0.0	0.0	0.0	99.6	0	0	0.0	0.0	0.0	0.0

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WFBL	US	NY	SYRACUSE	170.70	1.277	37.41	36.49	0.92
50% = 3.473, 25% = 5.109; CHOO/ =2.50 WRSC=2.41 WCAT=1.52 WNIO=1.51 WTJS=1.48 WGRB=1.48 WICK=1.30 WDNV=1.30 WSP0=1.30								
WZHF	US	VA	ARLINGTON	350.76	2.822	40.23	25.55	14.68
50% = 10.084, 25% = 11.288; WFBL=7.98 WRSC=6.17 WSP0=4.02 WNIO=3.10								
WRSC	US	PA	STATE COLLEGE	332.80	4.624	69.48	26.90	42.58
50% = 9.533, 25% = 10.582; WFBL=8.03 WLAN=5.14 WNIO=3.31 WZHF=3.19								
WNIO	US	OH	YOUNGSTOWN	157.45	3.008	95.51	37.17	58.34
50% = 6.566, 25% = 8.696; WFBL=5.27 WRSC=3.91 WLAN=3.01 WTJS=2.99 WSP0=2.81 WGRB=2.58								
WSP0	US	SC	CHARLESTON	52.71	1.527	144.87	40.45	104.42
50% = 4.91, 25% = 6.109; WAOK=3.30 WTOB=2.75 WFBL=2.38 YVZC-A=2.34 WKJV=2.15 WOHS=1.76								
WGRB	US	IL	CHICAGO	37.71	1.256	166.53	40.61	125.92
50% = 3.431, 25% = 5.086; WFBL=2.20 WNIO=2.00 WTJS=1.71 WSP0=1.59 KENN=1.56 WKJG=1.52 WHMA=1.40 KSLG=1.29 WOHS=1.26 WBAT=1.26								
WCAT	US	VT	BURLINGTON	88.54	4.355	245.92	39.27	206.65
50% = 16.84, 25% = 17.418; WFBL=16.84 WRSC=4.45								

Figure 7
Sheet 2 of 2

Call Letters	Ct	St	City	SWFF (100uV/m)	Req Prot (mV/m)	Permis (mV/m)	Cur Rad (mV/m)	Margin (mV/m)
WOHS 50% = 14.913, 25% = 14.913; WSPO=14.91	US	NC	SHELBY	71.93	3.728	259.18	39.99	219.19
WTJS 50% = 4.708, 25% = 6.381; KCRC=3.01 WGRB=2.81 WROA=2.28 KFRA=2.26 WOHS=2.12 WSPO=1.77 WFBL=1.75 XEOR/A=1.66	US	TN	JACKSON	29.44	1.595	270.94	40.82	230.12
WBTK 50% = 3.346, 25% = 5.409; WKDM=2.16 WTOB=1.83 WKJV=1.78 WAOK=1.65 WABH=1.58 WSPD=1.55 WXXI=1.54 WSYB=1.48 CKPC/A=1.42 WWMI=1.40 WKJG=1.39	US	VA	RICHMOND	215.95	1.352	313.12	34.84	278.28
WEGP 50% = 7.719, 25% = 8.687; WFBL=5.46 CFDA/U=4.22 WCAT=3.46 CHOO/A=2.43 WRSC=2.27 WLAN=2.19	US	ME	PRESQUE ISLE	31.59	2.193	347.11	40.63	306.48
WKDM 50% = 4.442, 25% = 6.029; WFBL=3.29 WXXI=2.20 WLAN=2.02 WBTK=2.01 WZHF=1.93 WFEA=1.91 WSYB=1.69 WRSC=1.55	US	NY	NEW YORK	281.11	2.008	357.17	30.84	326.32
WKDM 50% = 4.442, 25% = 6.029; WFBL=3.29 WXXI=2.20 WLAN=2.02 WBTK=2.01 WZHF=1.93 WFEA=1.91 WSYB=1.69 WRSC=1.55	US	NY	NEW YORK	281.11	2.008	357.17	30.84	326.32
WABH 50% = 5.688, 25% = 7.42; WKDM=3.42 CKLC/ =3.26 WSYB=3.16 WXXI=2.36 CKPC/A=2.23 WFBL=2.11 WBTK=2.02 WMYF=1.90	US	NY	BATH	227.89	1.855	407.01	33.84	373.17
WABH 50% = 5.688, 25% = 7.42; WKDM=3.42 CKLC/ =3.26 WSYB=3.16 WXXI=2.36 CKPC/A=2.23 WFBL=2.11 WBTK=2.02 WMYF=1.90	US	NY	BATH	227.89	1.855	407.01	33.84	373.17
CHOO/ 50% = 22.442, 25% = 24.023; WNIO=15.20 WFBL=12.34 WRSC=10.96 WGRB=6.15 WLCM=5.97	CA	ON	AJAX	128.88	10.958	425.12	36.87	388.25
CHOO/A 50% = 22.442, 25% = 24.023; WNIO=15.20 WFBL=12.34 WRSC=10.96 WGRB=6.15 WLCM=5.97	CA	ON	AJAX	128.88	10.958	425.12	36.87	388.25
WHMA 50% = 11.152, 25% = 12.777; WTJS=11.15 WOHS=3.84 WROA=3.51 WSPO=3.44	US	AL	ANNISTON	35.30	3.194	452.46	40.74	411.72
WFNW 50% = 6.549, 25% = 7.479; WKDM=4.08 WSYB=3.69 WFBL=3.56 WFEA=2.90 WMYF=2.15	US	CT	NAUGATUCK	189.20	1.870	494.13	35.81	458.32
WFNW 50% = 6.547, 25% = 7.478; WKDM=4.07 WSYB=3.69 WFBL=3.56 WFEA=2.90 WMYF=2.15	US	CT	NAUGATUCK	189.14	1.869	494.18	35.81	458.36
WPLM 50% = 25.912, 25% = 31.329; WFBL=22.92 WZHF=12.10 WCAT=11.05 WLAN=10.43 WRSC=8.89	US	MA	PLYMOUTH	102.33	10.435	509.87	38.98	470.89
WLCM 50% = 24.223, 25% = 24.223; WGRB=21.50 WNIO=11.15	US	MI	HOLT	58.84	6.056	514.61	40.14	474.47
KCRC 50% = 3.479, 25% = 5.103; XEOR/A=2.26 KLTX=1.95 KBEC=1.79 XEV/A=1.59 KFRA=1.49 KWON=1.41 KHOB=1.39 KREF=1.38 KRRZ=1.33 KTMC=1.27	US	OK	ENID	11.90	1.267	532.57	40.99	491.58