

ENGINEERING EXHIBIT
APPLICATION FOR CONSTRUCTION PERMIT
SCA LICENSE CORPORATION
RADIO STATION WYLL
CHICAGO, ILLINOIS

1160 KHZ 50 KW DA-2 U

APPENDIX

The WYLL nighttime application and the WHBY application are mutually contingent. Station WHBY operates on 1150 kHz, the first adjacent channel to WYLL. Currently, WHBY has a nighttime interference-free (NIF) contour of 6.5 mV/m, made up of the RSS contributions of cochannel stations KWKY and WIMA. In the simultaneously filed applications of WYLL and WHBY, WYLL becomes the sole contributor to the WHBY NIF limit. An interference reduction arrangement has been agreed upon by WYLL and WHBY.

In order to mitigate theoretical interference given to the proposed operation of WHBY by the WYLL, the nighttime power of WHBY will be increased from 5 to 24.8 kilowatts at the new transmitter location proposed in the simultaneously filed WHBY application.

Figure 1A shows the existing and proposed nighttime coverage contours for WYLL. The existing operation provides coverage to 4,509,559 persons in an area of 1,610 square kilometers. The proposed coverage includes 7,724,562 persons in an area of 6,910 square kilometers. There is a gain of 3,215,003 persons in an area of 5,300

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square kilometers. All of the gain area receives five or more aural services. It is also noteworthy that the proposed WYLL operation provides all of Chicago with an interference free signal, while the existing operation covers 88.2 percent of the city.

Figure 2A is a map showing the existing and proposed WHBY nighttime coverage. The proposed WYLL nighttime operation, according to the FCC calculation method results in an increase in the WHBY nighttime interference-free limit from 6.5 mV/m to 18.7 mV/m; however, WHBY proposes to increase nighttime power to 24.8 kilowatts at a new transmitter location. The proposed WHBY NIF limit will include 229,433 persons, 115,715 persons less than the current operation. As will be noted on Figure 2A, the majority of the WHBY service loss is in the Green Bay vicinity, well removed from the primary coverage area. The WHBY loss area receives service from at least five other aural services.

The eleven sheets of Figure 3A show the decrease in the NIF limit for 10 stations operating on 1160 kHz, and one station on 1150 kHz, which will receive less interference from WYLL's proposal. The nighttime coverage gain for each of these stations has five or more aural services available.

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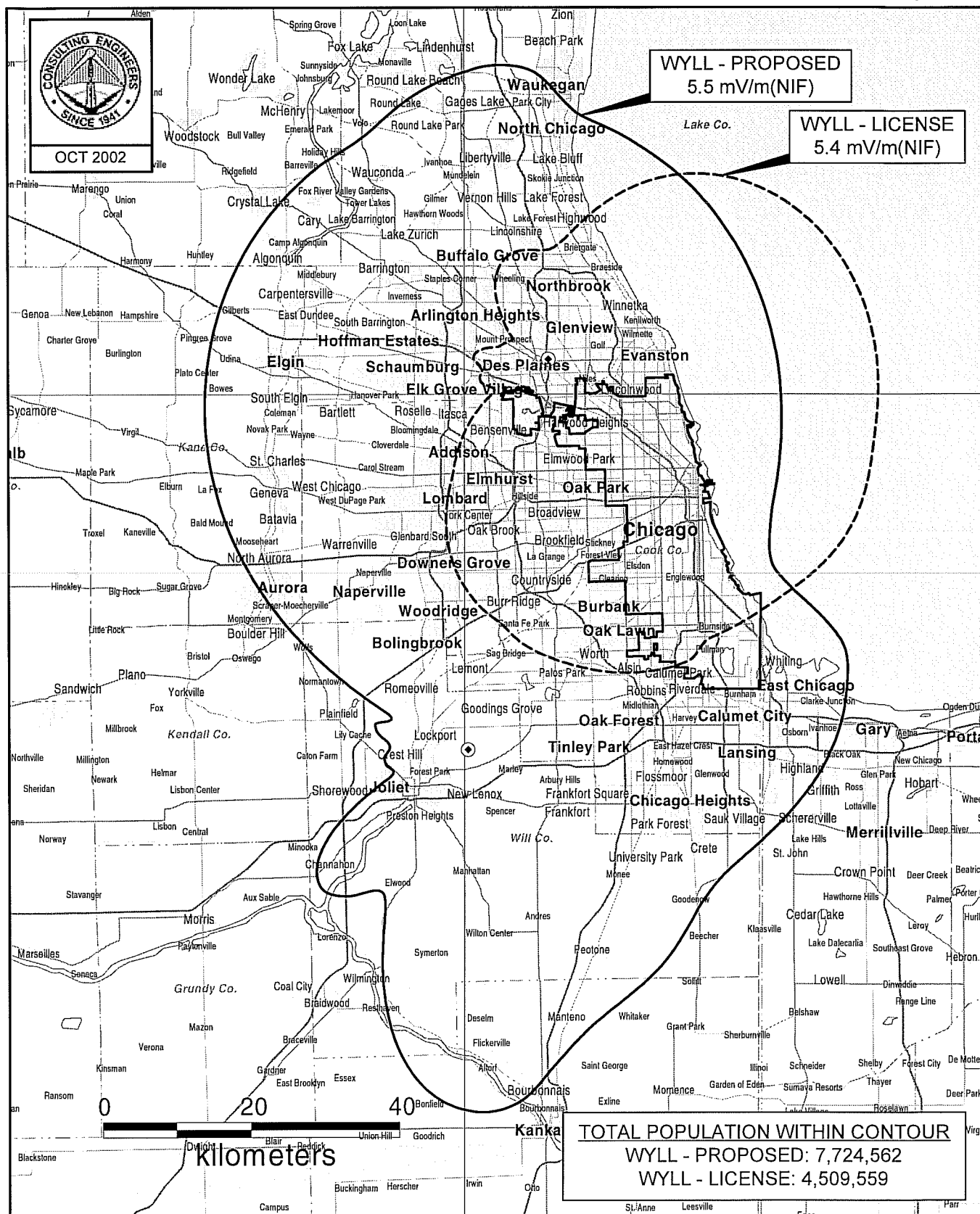
Figure 4A is a tabulation showing the gain and loss areas associated with the WYLL and WHBY proposals.



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October 15, 2002

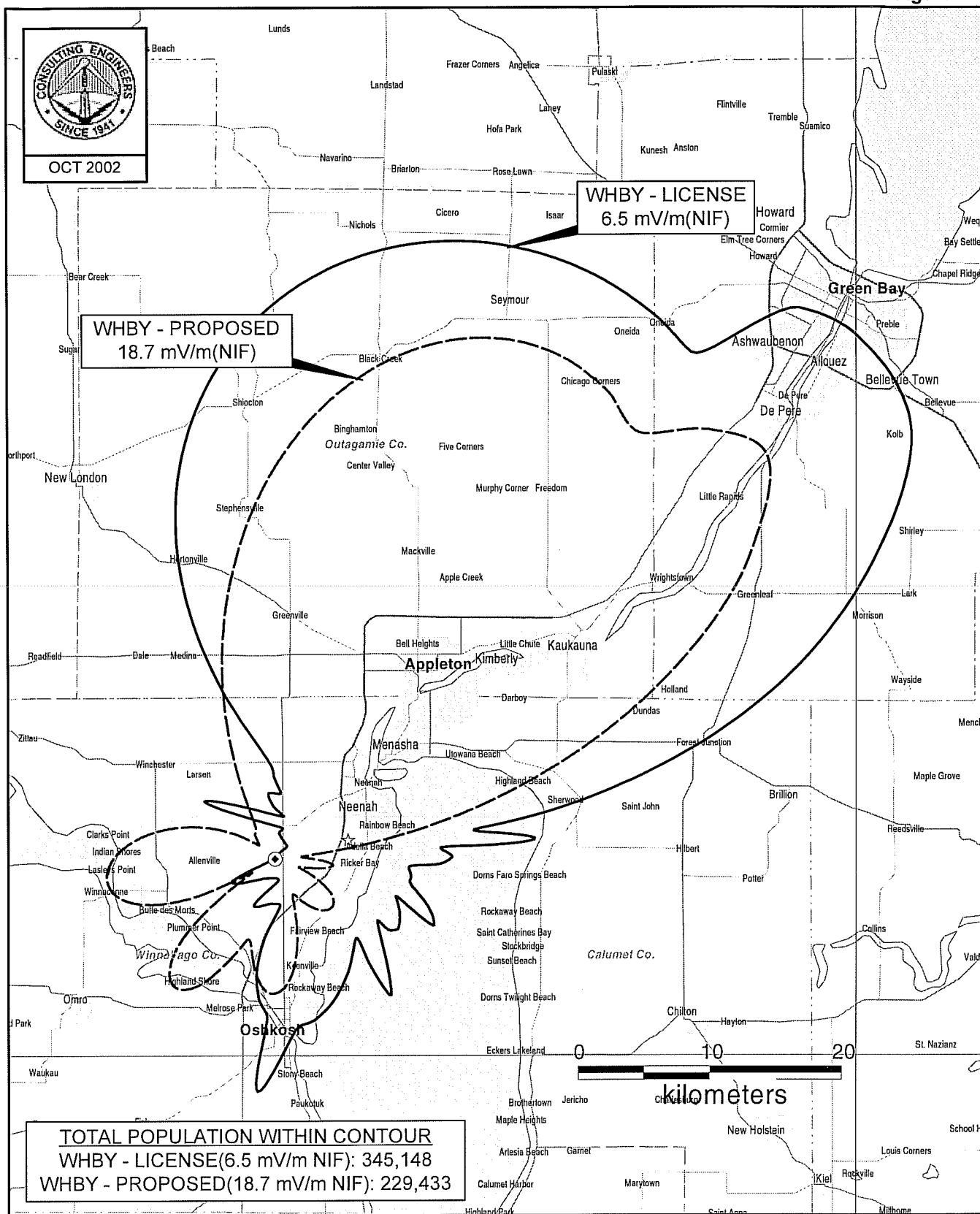
Figure 1A



NIGHTTIME COVERAGE CONTOUR COMPARISON

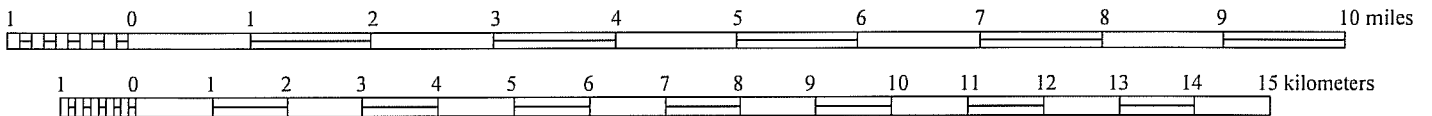
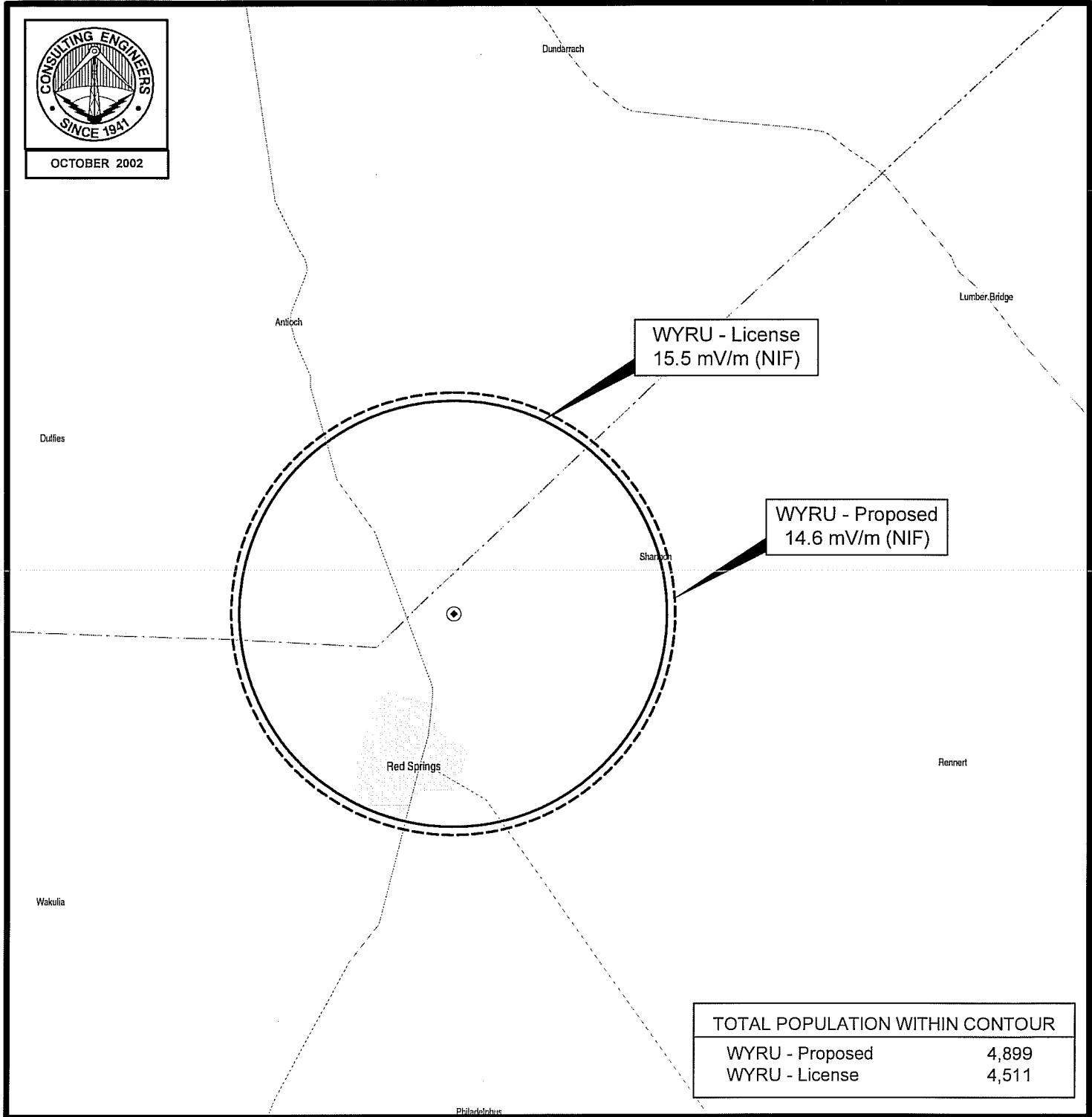
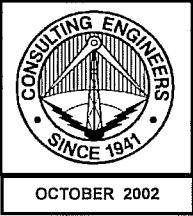
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1160 KHZ 50 KW DA-2 U

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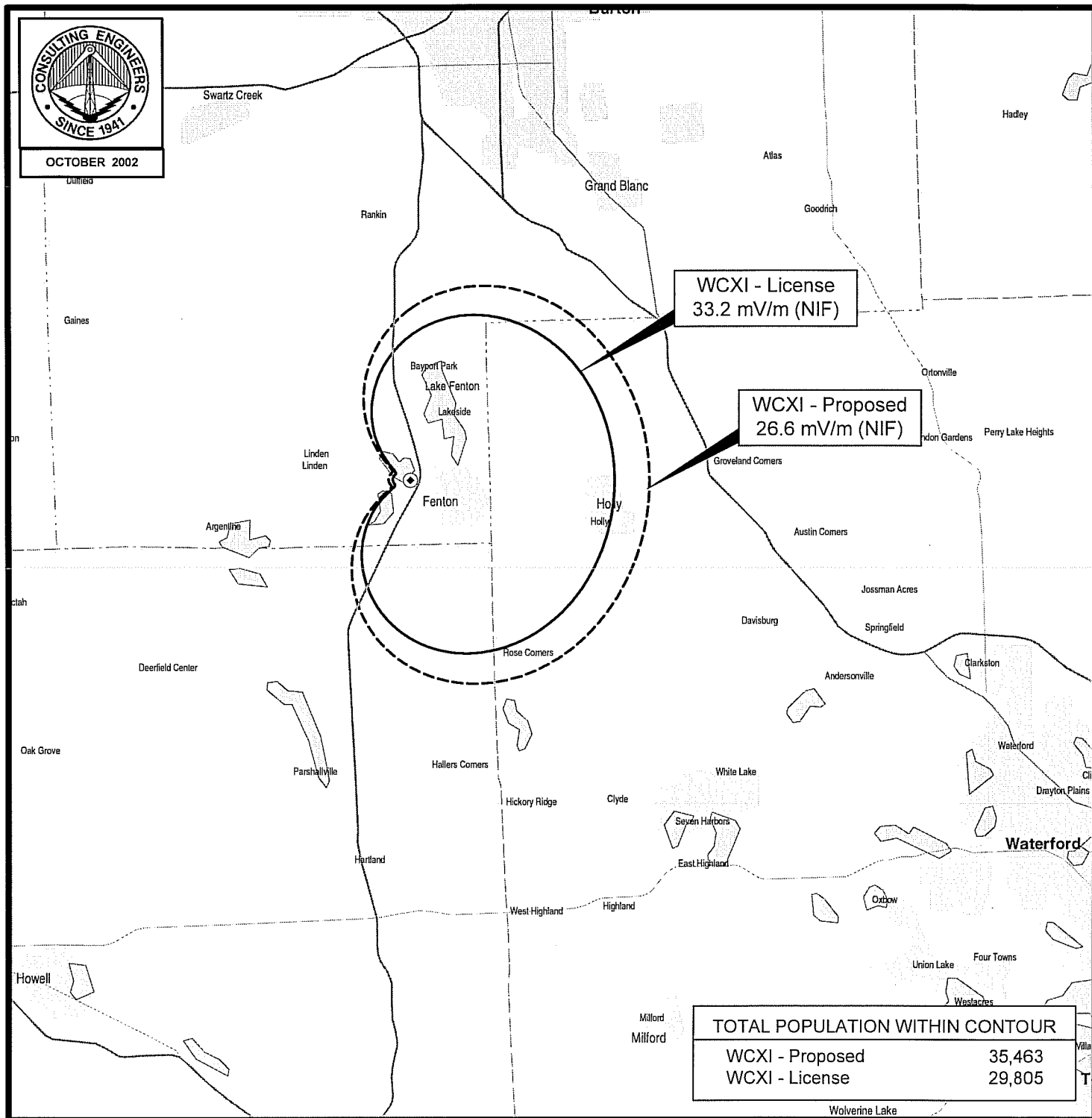
NIGHTTIME COVERAGE CONTOUR COMPARISON

RADIO STATION WHBY
KIMBERLY, WISCONSIN
1150 KHZ 5 KW DA-2 U



NIGHTTIME COVERAGE CONTOUR COMPARISON

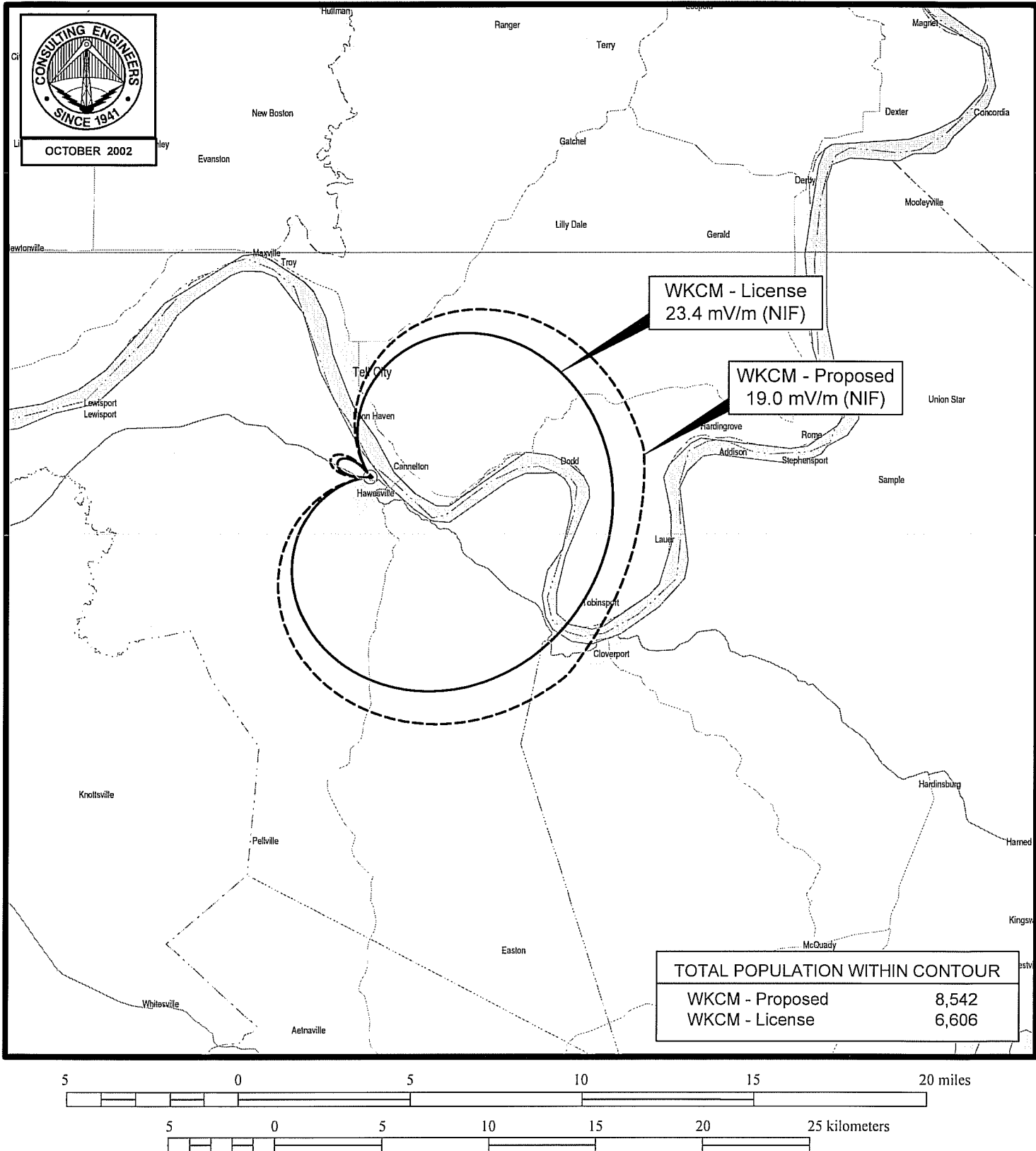
RADIO STATION WYRU
RED SPRINGS, NORTH CAROLINA
1160 KHz 5 KW-D 0.25 KW-N DA-N U



NIGHTTIME COVERAGE CONTOUR COMPARISON

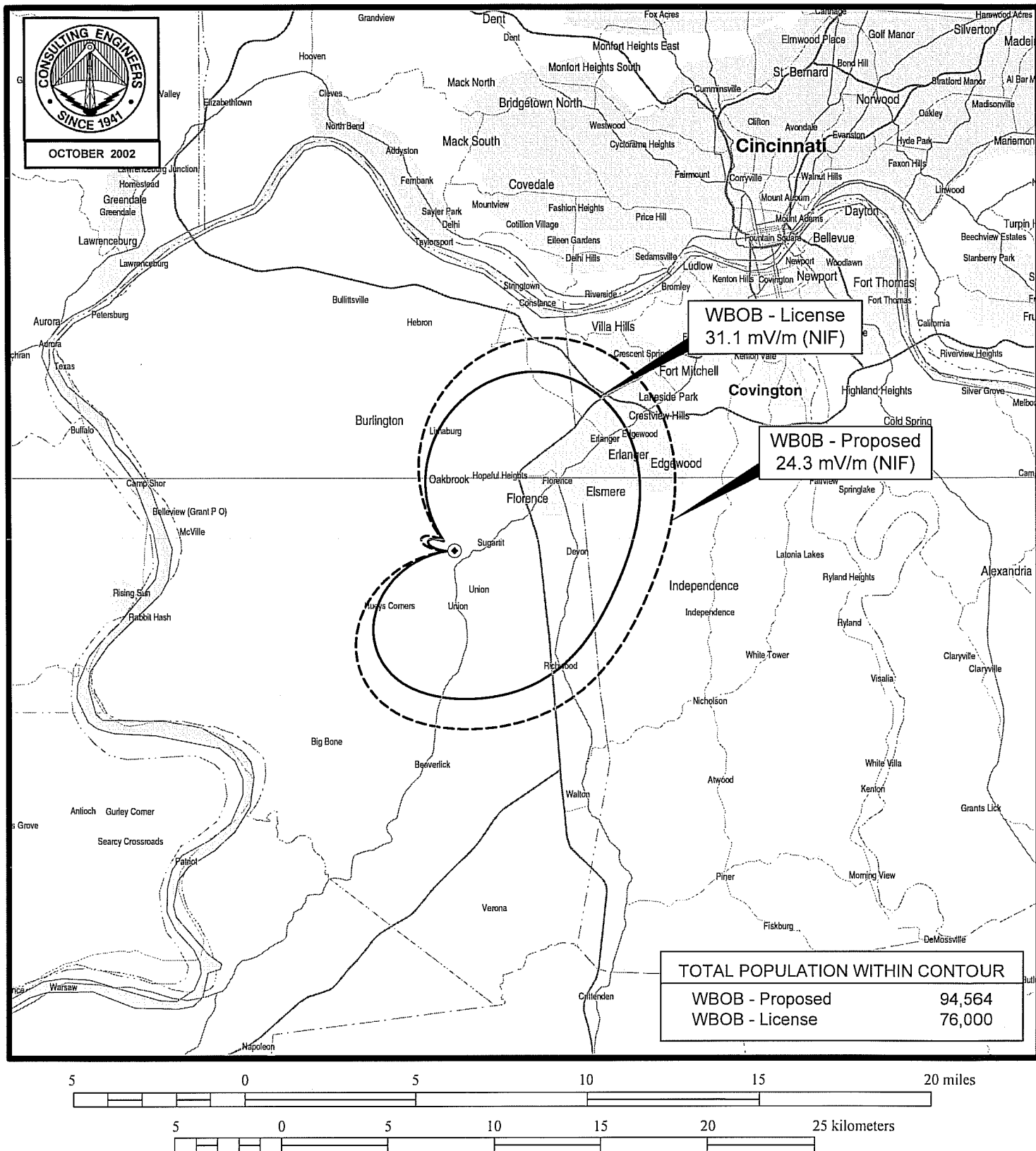
RADIO STATION WCXI
FENTON, MICHIGAN
1160 KHz 1 KW DA-1 U

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



NIGHTTIME COVERAGE CONTOUR COMPARISON

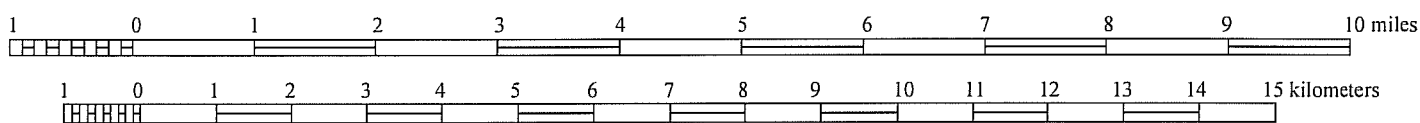
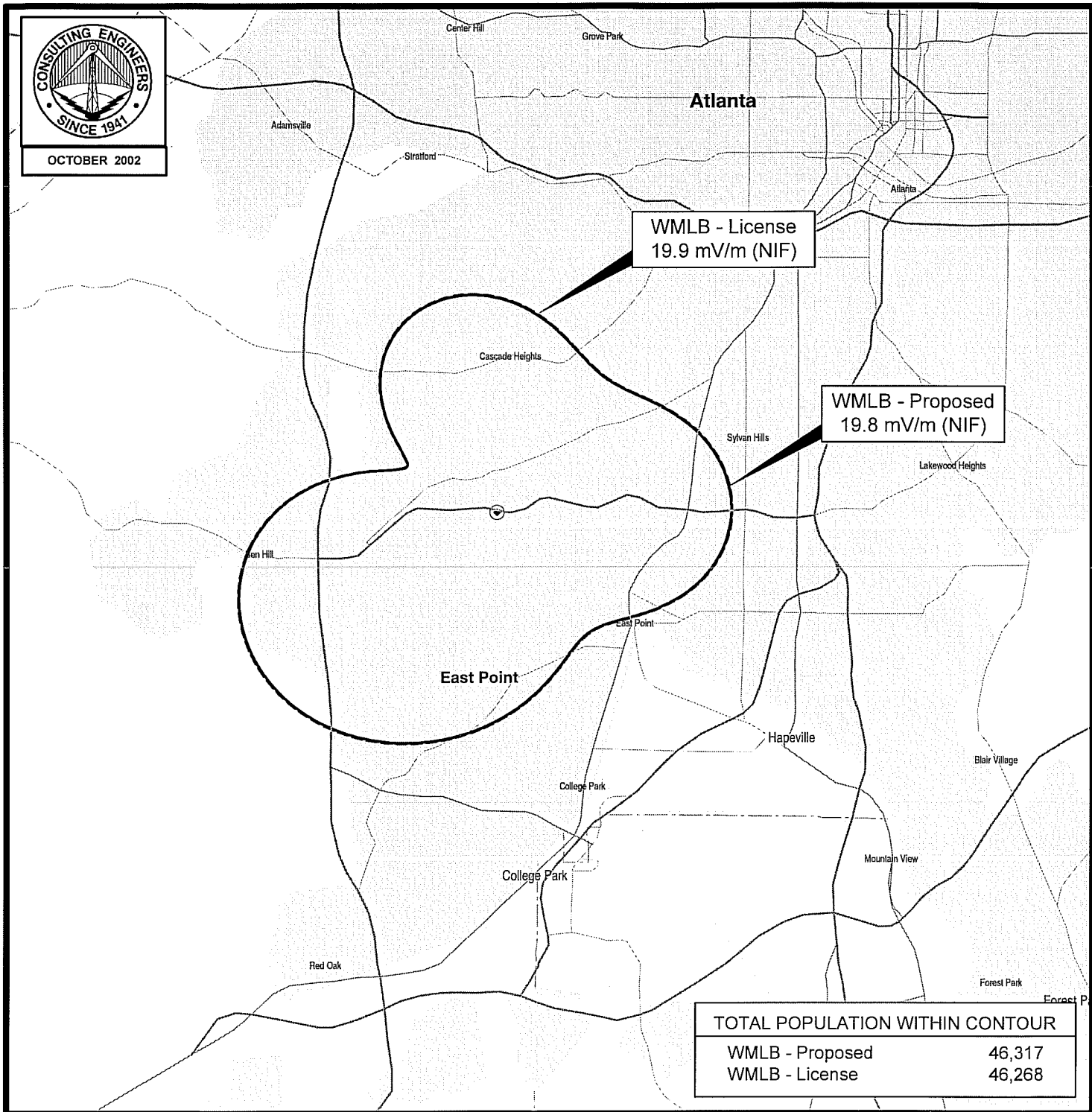
RADIO STATION WKCM
HAWESVILLE, KENTUCKY
1160 KHz 2.5 KW-D 1.0 KW-N DA-N U



NIGHTTIME COVERAGE CONTOUR COMPARISON

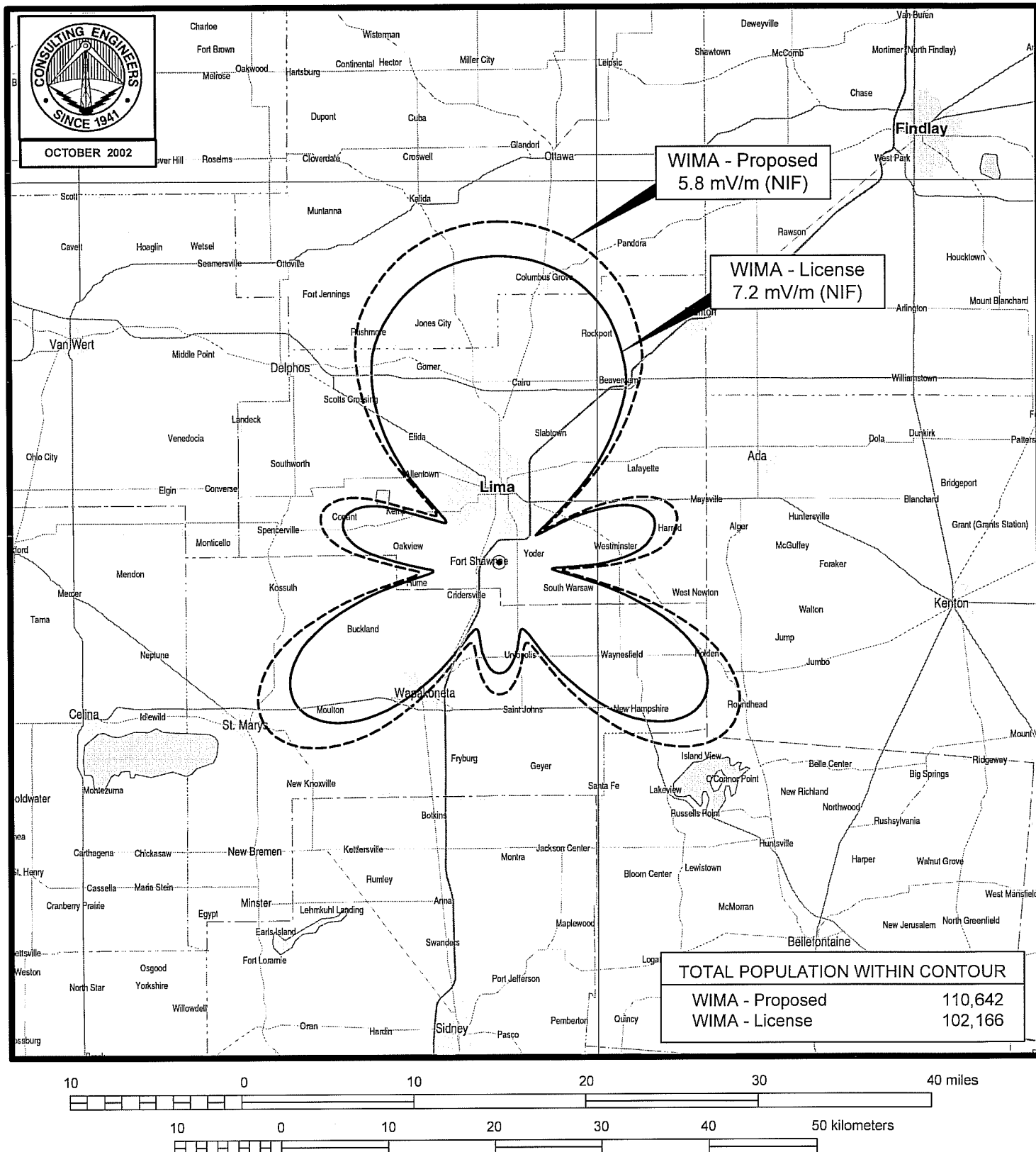
RADIO STATION WBOB
FLORENCE, KENTUCKY
1160 KHz 5 KW 0.99 KW-N DA-2 U

du Treil, Lundin & Rackley, Inc. Sarasota, Florida



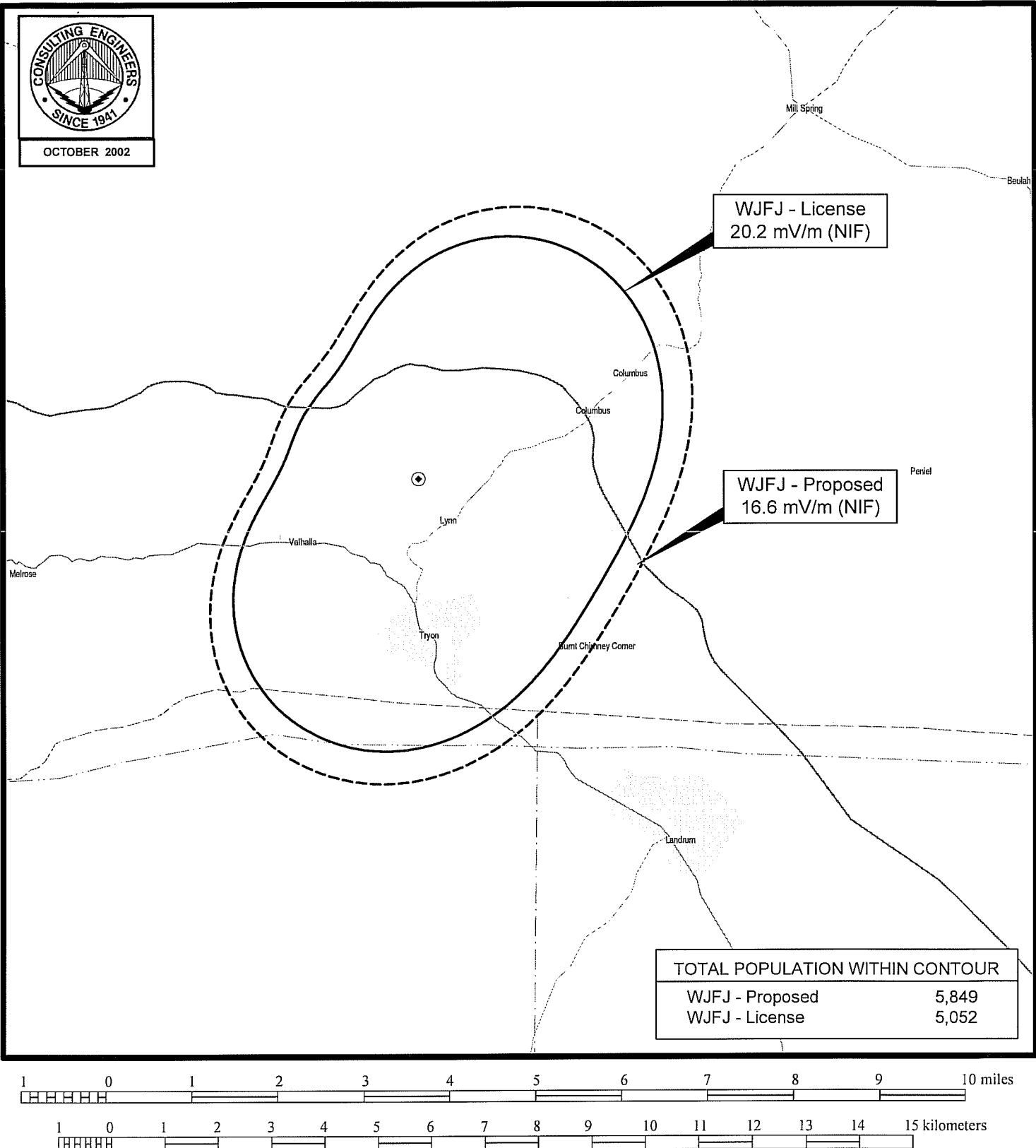
NIGHTTIME COVERAGE CONTOUR COMPARISON

RADIO STATION WMLB
EAST POINT, GEORGIA
1160 KHz 10 KW-D 0.16 KW-N DA-D



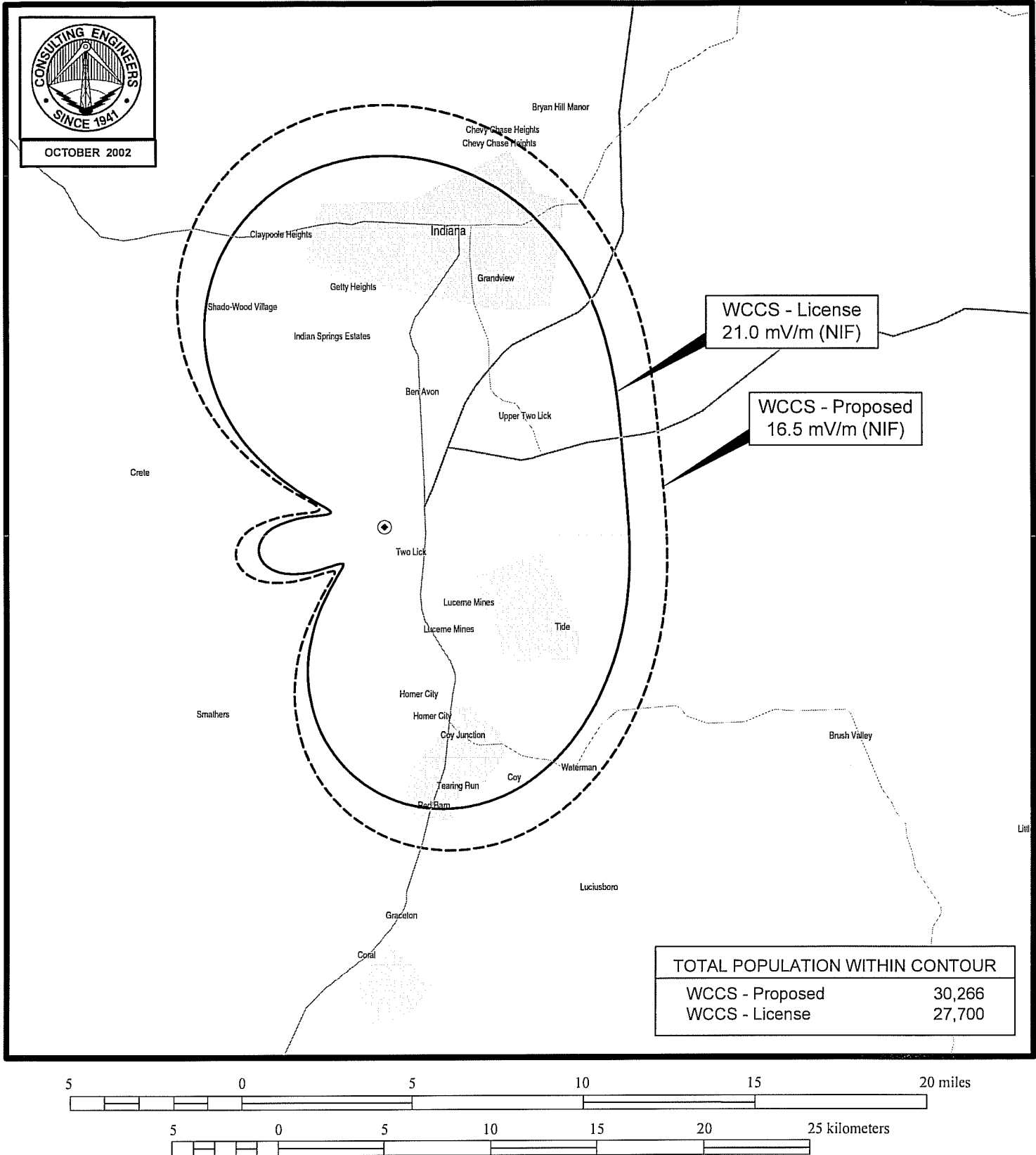
NIGHTTIME COVERAGE CONTOUR COMPARISON

RADIO STATION WIMA
LIMA, OHIO
1150 KHz 1 KW DA-N U



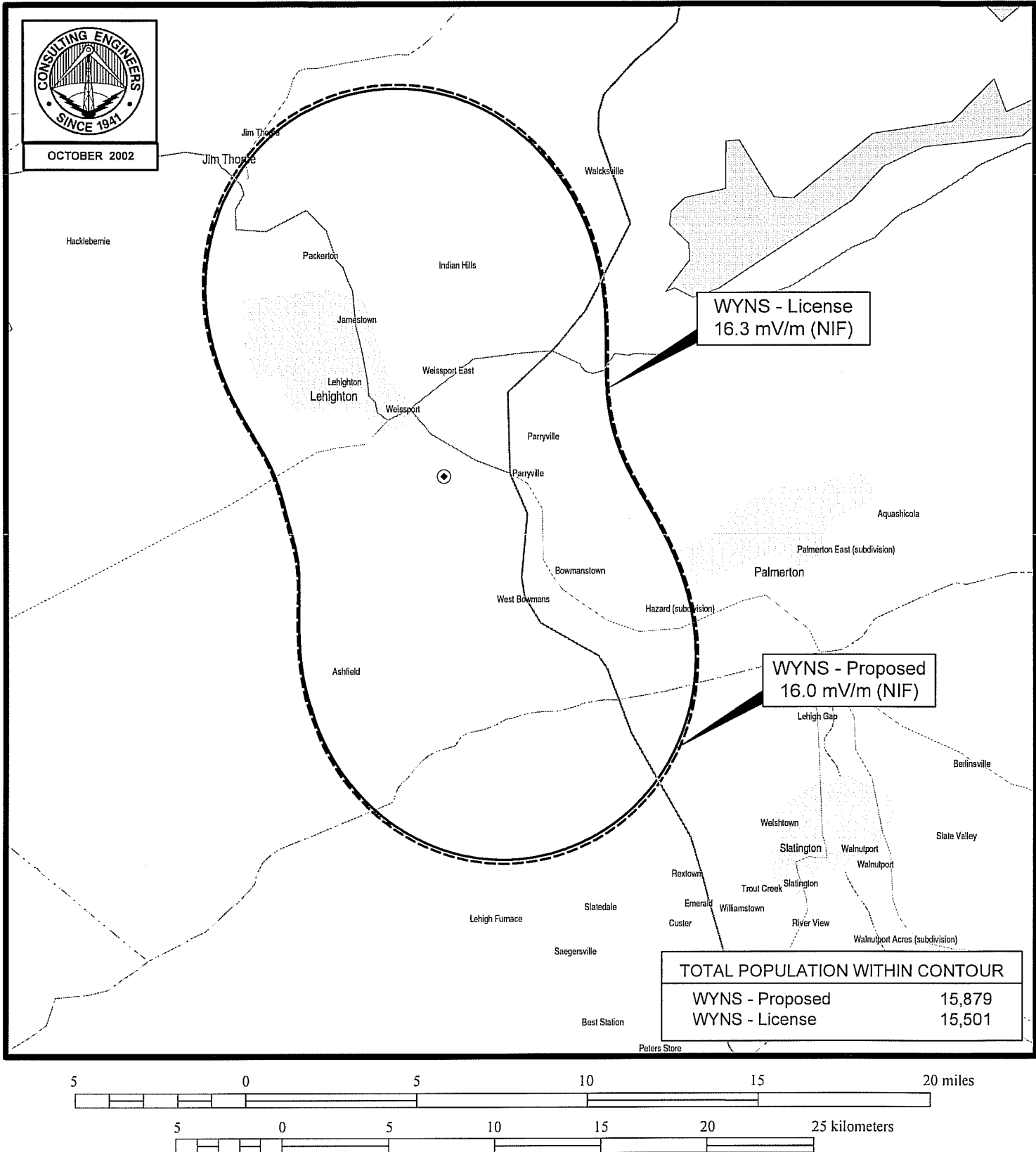
NIGHTTIME COVERAGE CONTOUR COMPARISON

RADIO STATION WJFJ
TRYON, NORTH CAROLINA
1160 KHz 10 KW-D 0.5 KW-N DA-N U



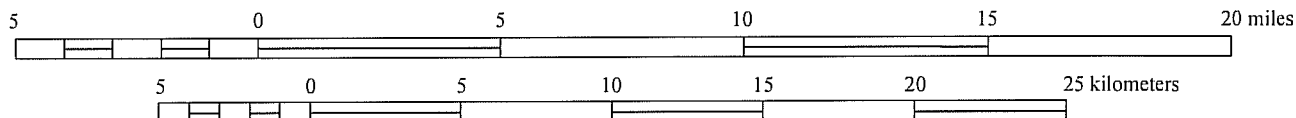
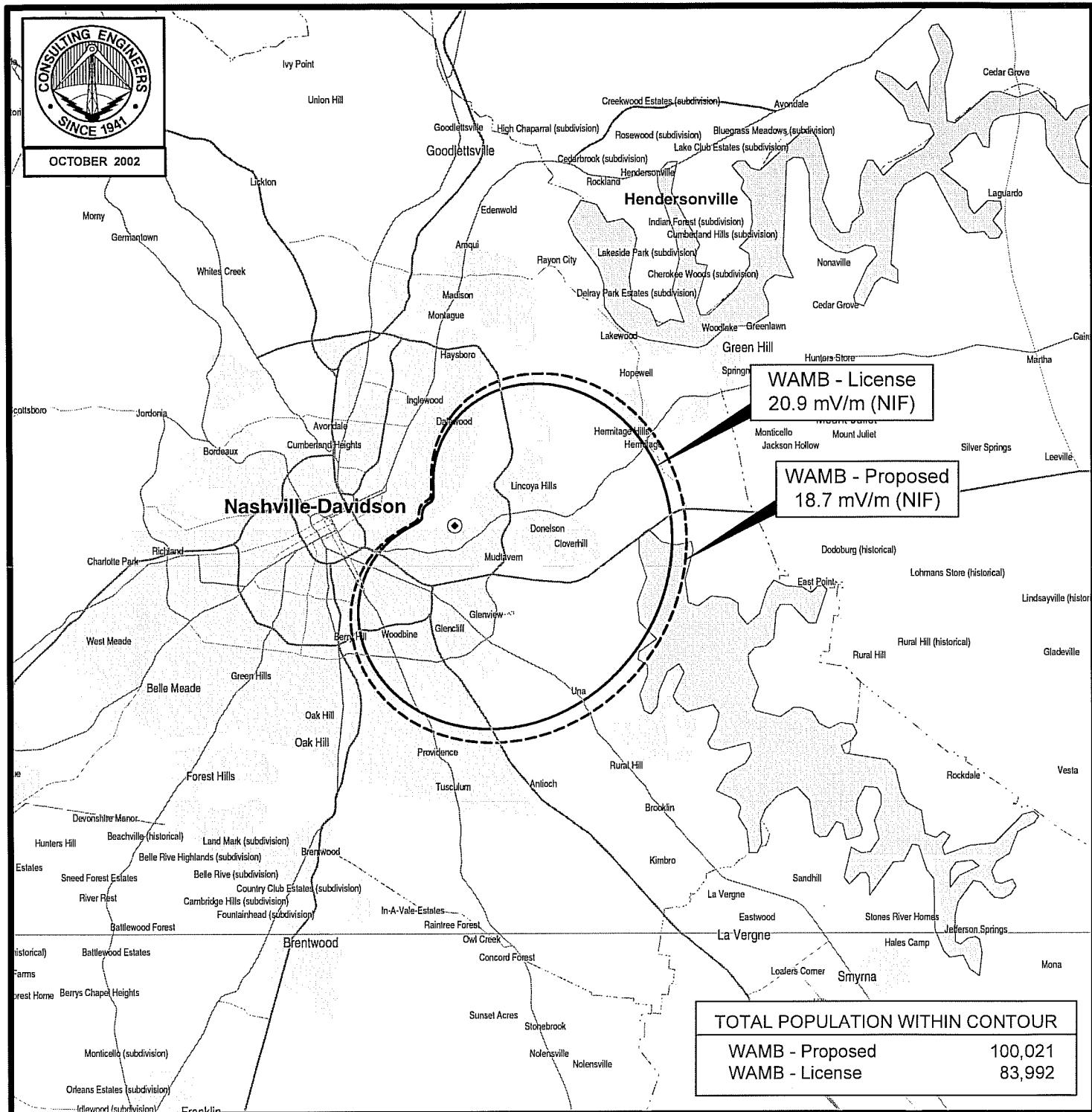
NIGHTTIME COVERAGE CONTOUR COMPARISON

RADIO STATION WCCS
HOMER, PENNSYLVANIA
1160 KHz 10 KW-D 1 KW-N DA-2 U



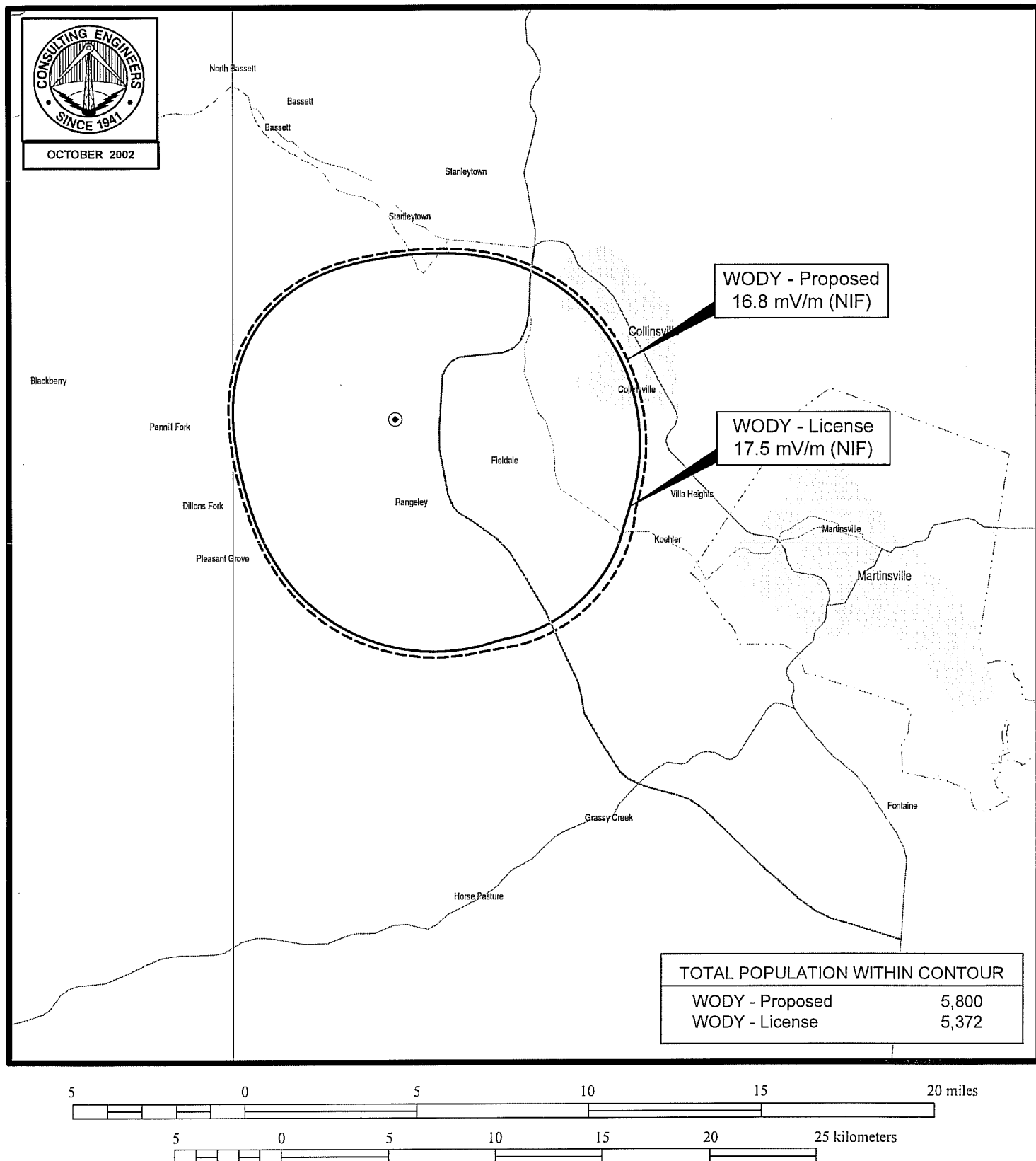
NIGHTTIME COVERAGE CONTOUR COMPARISON

RADIO STATION WYNS
LEHIGHTON, PENNSYLVANIA
1160 KHz 4 KW-D 1 KW-N DA-2 U



NIGHTTIME COVERAGE CONTOUR COMPARISON

RADIO STATION WAMB
DONELSON, TENNESSEE
1160 KHz 50 KW-D 1 KW-N DA-N U



NIGHTTIME COVERAGE CONTOUR COMPARISON

RADIO STATION WODY
FIELDAL, VIRGINIA
1160 KHz 5 KW-D 0.25 KW-N DA-N U

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Gain-Loss Study
Population Within NIF Contours

<u>Station</u>	<u>License</u>	<u>Proposed</u>	<u>Gain/(Loss)</u>
WYLL	4,509,559	7,724,562	3,215,003
WHBY (Licensed)	345,148	-----	-----
WHBY (Proposed)	-----	229,443	(115,715)
WYRU	4,511	4,889	378
WCXI	29,805	35,463	5,658
WKCM	6,606	8,542	1,936
WBOB	76,000	94,564	18,564
WMLB	46,268	46,317	49
WIMA	102,166	110,642	8,476
WJFJ	5,052	5,849	797
WCCS	27,700	30,266	2,566
WYNS	15,501	15,879	378
WAMB	83,992	100,021	16,029
WODY	5,372	5,800	428

Total Net Gain: 3,154,547