FIGURE 1

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KLIF - DALLAS, TEXAS (50 KW, DAYTIME DIRECTIONAL PATTERN)

Call letters: KLIF

Coordinates: N 32 47 10 W 96 57 0

Frequency: 1190 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data: Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.							
.0	1736.86	15.0E	21.6	30.0E	110.2	15.0E	142.5	30.0E	255.8
		15.0E	312.4	8.0E	373.3	30.0E	738.7	15.0E	860.4
		30.0E	954.2	15.0E	1000.0				
5.0	1656.83	15.0E	12.9	30.0E	106.9	15.0E	299.0	8.0E	412.1
		30.0E	779.4	15.0E	1000.0				
10.0	1532.78	15.0E	9.3	30.0E	104.6	15.0E	305.2	8.0E	409.5
		30.0E	701.9	15.0E	706.1	30.0E	934.9	15.0E	1000.0
15.0	1364.89	15.0E	7.3	30.0E	103.2	15.0E	448.9	30.0E	516.1
		15.0E	1000.0						
20.0	1172.03	15.0E	6.0	30.0E	102.6	15.0E	1000.0		
25.0	979.36	15.0E	5.2	30.0E	103.9	15.0E	365.0	8.0E	555.2
		15.0E	1000.0						
30.0	814.57	15.0E	4.6	30.0E	107.2	15.0E	346.8	8.0E	792.0
		15.0E	881.7	8.0E	903.6	15.0E	1000.0		
35.0	698.52	15.0E	4.1	30.0E	117.4	15.0E	350.3	8.0E	1000.0
40.0	635.05	15.0E	3.8	30.0E	135.7	15.0E	388.3	8.0E	836.7
		15.0E	1000.0						
45.0	660.00	15.0E	3.5	30.0E	161.6	15.0E	424.9	8.0E	849.6
	.	15.0E	893.1	8.0E	1000.0				
50.0	649.84	15.0E	3.3	30.0E	208.4	15.0E	213.8	4.0E	236.2
		15.0E	411.5	4.0E	446.2	8.0E	1000.0		
55.0	674.12	15.0E	3.1	30.0E	197.9	4.0E	259.8	15.0E	321.9
		4.0E	475.4	8.0E	848.3	4.0E	889.3	8.0E	1000.0
60.0	923.70	15.0E	3.0	30.0E	173.7	4.0E	511.7	8.0E	790.6
		4.0E	1000.0						
65.0	1289.58	15.0E	2.9	30.0E	155.5	4.0E	534.8	8.0E	765.3
		4.0E	1000.0						
70.0	1722.00	15.0E	2.8	30.0E	141.7	8.0E	157.2	4.0E	535.1
		8.0E	763.9	4.0E	1000.0				

FIGURE 1

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

75.0	2347.12	15.0E	2.8	30.0E	131.0	8.0E	223.6	4.0E	521.5
		8.0E	753.9	2.0E	765.8	4.0E	960.8	2.0E	1000.0
80.0	3221.11	15.0E	2.8	30.0E	122.6	8.0E	285.9	4.0E	496.1
		8.0E	714.9	2.0E	875.0	4.0E	929.6	2.0E	992.8
		4.0E	1000.0						
85.0	4092.62	15.0E	2.8	30.0E	116.1	8.0E	308.4	4.0E	310.1
		15.0E	363.0	4.0E	474.5	8.0E	689.3	2.0E	905.8
		4.0E	1000.0						
90.0	4762.18	15.0E	2.8	30.0E	111.1	8.0E	286.3	15.0E	372.5
		4.0E	457.1	8.0E	679.9	2.0E	908.3	4.0E	980.1
		8.0E	1000.0						
95.0	5119.83	15.0E	2.8	30.0E	107.2	8.0E	298.9	15.0E	379.4
		4.0E	452.3	8.0E	633.3	4.0E	754.9	2.0E	891.6
		8.0E	1000.0						
100.0	5170.21	15.0E	2.9	30.0E	104.4	8.0E	321.2	15.0E	389.6
		4.0E	458.5	8.0E	633.7	4.0E	742.3	2.0E	876.9
		1.0E	1000.0						
105.0	4917.90	15.0E	3.0	30.0E	102.5	8.0E	342.1	15.0E	404.0
		4.0E	473.4	8.0E	625.2	4.0E	736.8	2.0E	876.5
		5000.0E	905.5	2.0E	913.2	1.0E	932.9	5000.0E	1000.0
110.0	4377.40	15.0E	3.1	30.0E	101.4	8.0E	365.1	15.0E	425.6
		4.0E	427.1	8.0E	616.6	4.0E	740.5	2.0E	768.3
		5000.0E	1000.0						
115.0	3662.31	15.0E	3.3	30.0E	101.1	8.0E	255.3	4.0E	283.4
		8.0E	387.6	15.0E	463.8	8.0E	630.9	4.0E	634.0
		15.0E	774.1	5000.0E	1000.0				
120.0	2898.11	15.0E	3.5	30.0E	101.2	8.0E	206.3	4.0E	294.1
		8.0E	421.4	15.0E	516.3	8.0E	572.0	15.0E	728.3
		5000.0E	730.6	15.0E	737.3	5000.0E	744.1	15.0E	746.9
		5000.0E	751.0	15.0E	767.7	5000.0E	1000.0		
125.0	2191.44	15.0E	3.7	30.0E	101.4	8.0E	172.4	4.0E	267.2
		8.0E	487.7	30.0E	522.1	15.0E	568.2	5000.0E	568.6
		15.0E	571.8	5000.0E	1000.0				
130.0	1612.29	15.0E	4.1	30.0E	102.5	8.0E	147.8	4.0E	254.1
		8.0E	455.3	30.0E	455.5	5000.0E	455.7	30.0E	537.3
		5000.0E	1000.0						
135.0	1189.65	15.0E	4.5	30.0E	105.6	8.0E	127.9	4.0E	254.0
		8.0E	421.0	30.0E	467.7	5000.0E	1000.0		
140.0	916.51	15.0E	5.1	30.0E	109.8	8.0E	113.1	4.0E	277.1
		8.0E	382.4	30.0E	447.2	5000.0E	1000.0		
145.0	760.35	15.0E	6.0	30.0E	100.5	15.0E	115.1	4.0E	315.1

FIGURE 1

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

		8.0E	352.6	30.0E	435.1	5000.0E	1000.0		
150.0	679.74	15.0E	7.2	30.0E	89.2	15.0E	121.8	4.0E	338.7
		15.0E	367.2	30.0E	398.9	5000.0E	429.6	30.0E	433.4
		5000.0E	1000.0						
155.0	689.30	15.0E	8.8	30.0E	79.7	15.0E	130.5	4.0E	321.3
		15.0E	367.6	30.0E	437.7	5000.0E	1000.0		
160.0	676.68	15.0E	10.5	30.0E	72.5	15.0E	141.7	4.0E	308.1
		15.0E	444.9	30.0E	457.9	5000.0E	1000.0		
165.0	686.19	15.0E	13.1	30.0E	67.0	15.0E	156.2	4.0E	286.7
		15.0E	434.8	30.0E	466.0	5000.0E	1000.0		
170.0	683.95	15.0E	17.8	30.0E	62.7	15.0E	172.9	4.0E	232.4
		15.0E	378.0	30.0E	470.9	5000.0E	1000.0		
175.0	687.04	15.0E	24.1	30.0E	59.3	15.0E	188.4	30.0E	194.1
		15.0E	358.3	30.0E	464.3	5000.0E	472.0	30.0E	490.6
		5000.0E	1000.0						
180.0	691.86	15.0E	30.8	30.0E	54.0	15.0E	158.5	30.0E	219.2
		15.0E	401.7	30.0E	509.7	5000.0E	1000.0		

FIGURE 1

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KLIF - DALLAS, TEXAS (50 KW, DAYTIME DIRECTIONAL PATTERN)

Call letters: KLIF Metric groundwave propagation curves

Coordinates: N 32 47 10 W 96 57 0

Frequency: 1190 kHz Number of contours: 2

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers : Contour levels in mV/m. .500	.025
.0	1736.86	237.65	486.06
5.0	1656.83	210.13	436.33
10.0	1532.78	205.13	429.84
15.0	1364.89	197.99	429.36
20.0	1172.03	189.18	415.50
25.0	979.36	179.84	396.50
30.0	814.57	171.43	381.24
35.0	698.52	166.96	372.52
40.0	635.05	167.78	372.49
45.0	660.00	176.92	383.08
50.0	649.84	182.01	381.68
55.0	674.12	184.53	352.57
60.0	923.70	187.78	343.07
65.0	1289.58	188.09	356.05
70.0	1722.00	194.19	373.37
75.0	2347.12	214.93	406.91
80.0	3221.11	228.27	438.68
85.0	4092.62	239.26	468.79
90.0	4762.18	246.01	484.59
95.0	5119.83	248.55	488.79
100.0	5170.21	247.58	486.91
105.0	4917.90	243.16	480.81
110.0	4377.40	235.03	474.40
115.0	3662.31	223.76	454.12
120.0	2898.11	209.25	417.73
125.0	2191.44	190.02	390.08
130.0	1612.29	172.79	360.98
135.0	1189.65	158.06	331.86
140.0	916.51	146.52	304.47
145.0	760.35	141.06	288.85
150.0	679.74	139.23	282.65
155.0	689.30	142.24	286.22
160.0	676.68	145.25	288.49
165.0	686.19	146.13	295.98
170.0	683.95	143.38	320.41
175.0	687.04	140.71	349.84
180.0	691.86	137.04	360.07

FIGURE 1

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KYOO - BOLIVAR, MISSOURI (25 KW, DA-D)

Call letters: KYOO

Coordinates: N 37 41 50 W 93 25 45

Frequency: 1200 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data: Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.					
.0	204.66	8.0E	50.4	15.0E	400.0		
10.0	369.39	8.0E	60.5	15.0E	400.0		
20.0	458.89	8.0E	78.6	15.0E	400.4		
30.0	379.88	8.0E	117.4	15.0E	392.0	8.0E	400.0
40.0	188.98	8.0E	400.0				
50.0	201.15	8.0E	347.8	15.0E	400.0		
60.0	217.71	8.0E	264.5	15.0E	400.0		
70.0	334.07	8.0E	244.3	15.0E	395.7	8.0E	400.0
80.0	1020.89	8.0E	271.5	15.0E	316.5	8.0E	400.0
90.0	1952.37	8.0E	400.0				
100.0	2894.81	8.0E	390.4	4.0E	400.0		
110.0	3670.04	8.0E	395.7	4.0E	400.0		
120.0	4168.32	8.0E	400.0				
130.0	4338.91	8.0E	400.0				
140.0	4168.32	8.0E	400.0				
150.0	3670.04	8.0E	400.0				
160.0	2894.81	8.0E	311.9	4.0E	400.0		
170.0	1952.37	8.0E	277.8	4.0E	400.0		
180.0	1020.89	8.0E	256.5	15.0E	278.1	4.0E	400.0
190.0	334.07	8.0E	251.1	15.0E	385.4	4.0E	400.0
200.0	217.71	8.0E	275.6	15.0E	400.0		
210.0	201.15	8.0E	286.1	15.0E	400.0		

FIGURE 1

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

220.0	188.98	8.0E	257.2	15.0E	400.0				
230.0	379.88	8.0E	152.7	15.0E	315.8	8.0E	378.7	15.0E	400.0
240.0	458.89	8.0E	69.1	15.0E	92.3	8.0E	115.3	15.0E	239.6
		30.0E	279.1	8.0E	375.2	30.0E	400.0		
250.0	369.39	8.0E	53.3	15.0E	185.1	30.0E	400.0		
260.0	204.66	8.0E	44.5	15.0E	183.9	30.0E	400.0		
270.0	118.67	8.0E	39.2	15.0E	184.2	30.0E	400.0		
280.0	134.93	8.0E	36.0	15.0E	187.7	30.0E	400.0		
290.0	131.46	8.0E	34.3	15.0E	197.0	30.0E	400.0		
300.0	119.59	8.0E	33.3	15.0E	214.2	30.0E	376.2	15.0E	400.0
310.0	117.90	8.0E	33.4	15.0E	236.5	30.0E	340.2	15.0E	400.0
320.0	119.59	8.0E	34.5	15.0E	261.8	30.0E	329.7	15.0E	400.0
330.0	131.46	8.0E	36.8	15.0E	298.2	30.0E	386.7	15.0E	400.0
340.0	134.93	8.0E	40.7	15.0E	357.8	30.0E	400.0		
350.0	118.67	8.0E	44.3	15.0E	400.0				

FIGURE 1

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

KYOO - BOLIVAR, MISSOURI (25 KW, DA-D)

Call letters: KYOO Metric groundwave propagation curves

Coordinates: N 37 41 50 W 93 25 45

Frequency: 1200 kHz Number of contours: 1

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers : Contour levels in mV/m. .500
.0	204.66	54.00
10.0	369.39	71.85
20.0	458.89	74.66
30.0	379.88	68.80
40.0	188.98	50.98
50.0	201.15	52.37
60.0	217.71	54.18
70.0	334.07	65.10
80.0	1020.89	104.73
90.0	1952.37	135.11
100.0	2894.81	156.61
110.0	3670.04	170.66
120.0	4168.32	178.56
130.0	4338.91	181.06
140.0	4168.32	178.56
150.0	3670.04	170.66
160.0	2894.81	156.61
170.0	1952.37	135.11
180.0	1020.89	104.73
190.0	334.07	65.10
200.0	217.71	54.18
210.0	201.15	52.37
220.0	188.98	50.98
230.0	379.88	68.80
240.0	458.89	77.00
250.0	369.39	76.11
260.0	204.66	56.89
270.0	118.67	42.84
280.0	134.93	48.16
290.0	131.46	48.30
300.0	119.59	46.13
310.0	117.90	45.68
320.0	119.59	45.50
330.0	131.46	46.99
340.0	134.93	45.73
350.0	118.67	41.61

FIGURE 1

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

JOB ID. CODE: WOWO - FORT WAYNE, INDIANA

Call letters: WOWO

Coordinates: N 40 59 47 W 85 21 6

Frequency: 1190 kHz

Azimuth	Radiation (mV/m at one km)	Ground Conductivity Data: Region conductivity in mS/m followed by distance in km to the end of region. E - map data; M - measurement data.							
150.0	2708.36	8.0E	6.0	15.0E	104.8	8.0E	299.4	2.0E	400.0
160.0	2708.36	8.0E	5.9	15.0E	97.6	8.0E	400.0		
170.0	2708.36	8.0E	6.0	15.0E	94.6	8.0E	326.5	4.0E	396.4
		8.0E	400.0						
180.0	2708.36	8.0E	6.4	15.0E	94.9	8.0E	316.5	4.0E	400.0
190.0	2708.36	8.0E	7.6	15.0E	98.7	8.0E	293.4	4.0E	400.0
200.0	2708.36	8.0E	9.7	15.0E	107.0	8.0E	400.0		
210.0	2708.36	8.0E	14.0	15.0E	121.5	8.0E	400.0		
220.0	2708.36	8.0E	26.8	15.0E	135.1	8.0E	400.0		
230.0	2708.36	8.0E	400.0						
240.0	2708.36	8.0E	330.2	15.0E	400.0				
250.0	2708.36	8.0E	277.6	15.0E	400.0				
260.0	2708.36	8.0E	245.3	15.0E	384.3	8.0E	400.0		
270.0	2708.36	8.0E	222.3	15.0E	300.6	8.0E	400.0		
280.0	2708.36	8.0E	210.7	15.0E	260.8	8.0E	400.0		
290.0	2708.36	8.0E	201.1	15.0E	235.7	8.0E	400.0		

FIGURE 1

LIST OF STATIONS AND CONDUCTIVITIES CONSIDERED

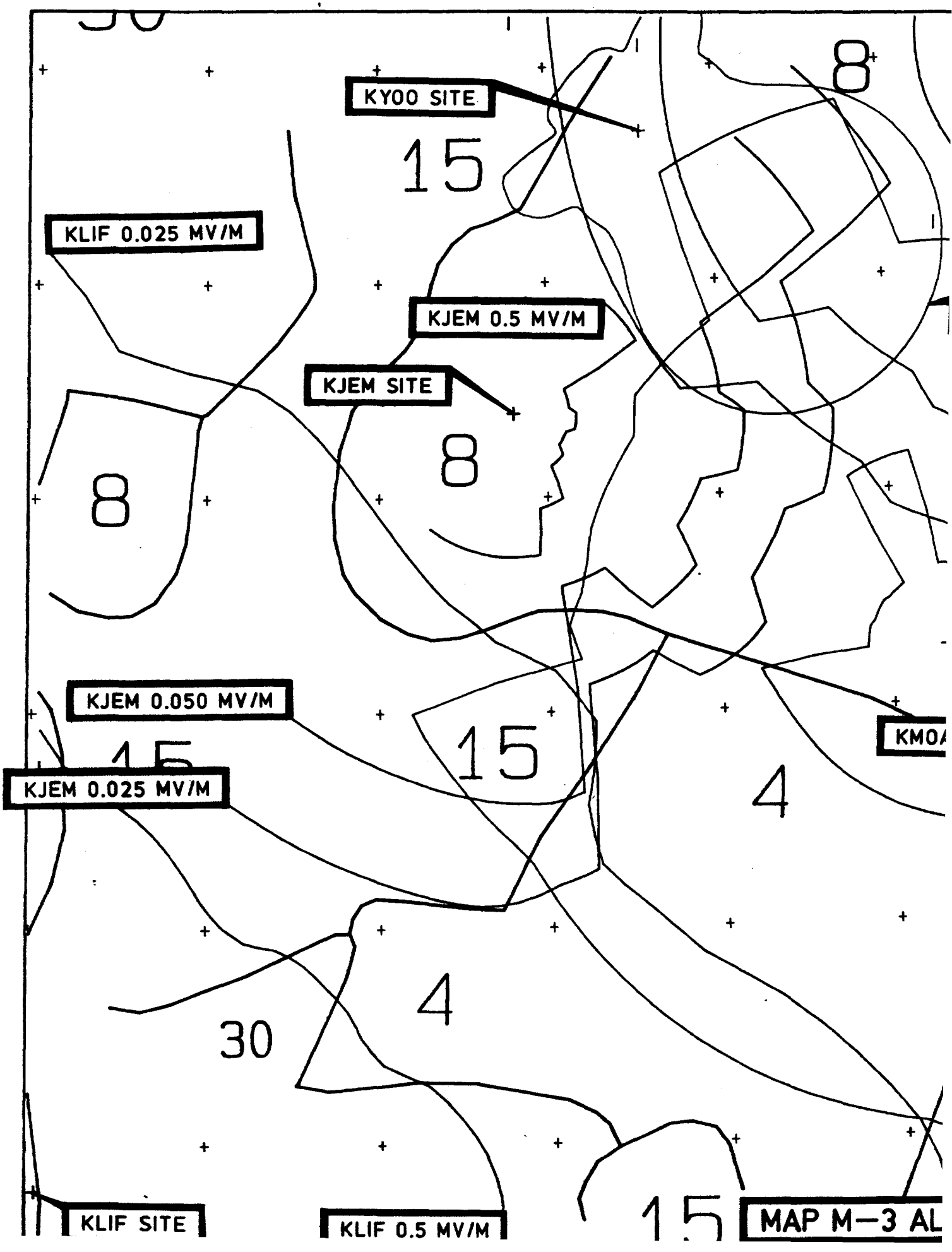
JOB ID. CODE: WOWO - FORT WAYNE, INDIANA

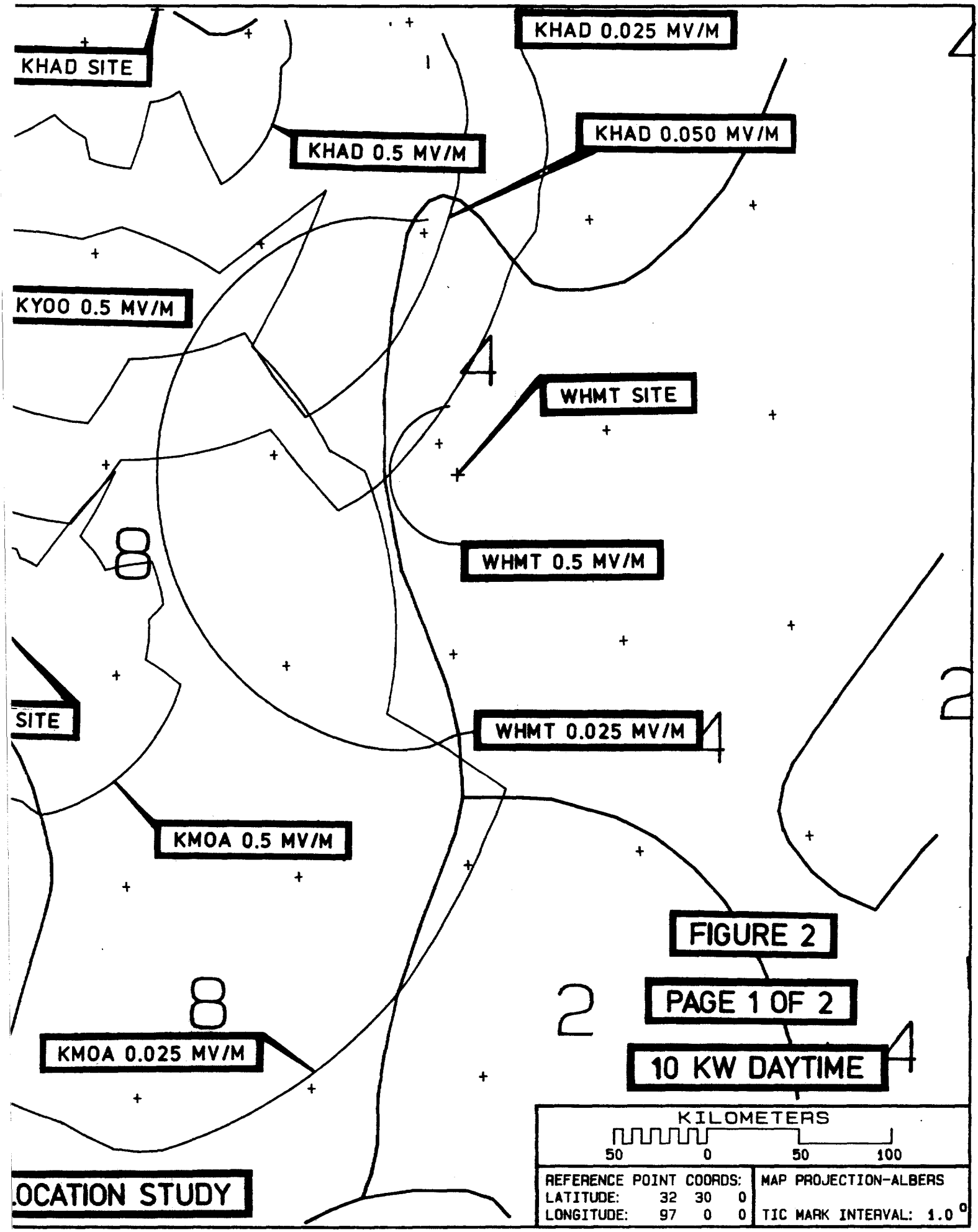
Call letters: WOWO Metric groundwave propagation curves

Coordinates: N 40 59 47 W 85 21 6

Frequency: 1190 kHz Number of contours: 1

Azimuth	Radiation (mV/m at one km)	Distances to Contours in Kilometers : Contour levels in mV/m. .100
150.0	2708.36	294.13
160.0	2708.36	291.90
170.0	2708.36	290.81
180.0	2708.36	290.85
190.0	2708.36	291.96
200.0	2708.36	293.93
210.0	2708.36	296.29
220.0	2708.36	294.63
230.0	2708.36	261.37
240.0	2708.36	261.37
250.0	2708.36	261.37
260.0	2708.36	263.20
270.0	2708.36	266.54
280.0	2708.36	267.32
290.0	2708.36	265.93


KYOO SITE
15
8
KLIF 0.025 MV/M
KJEM 0.5 MV/M
KJEM SITE
8
8
KJEM 0.050 MV/M
15
KMOA
KJEM 0.025 MV/M
4
4
30
KLIF SITE
KLIF 0.5 MV/M
15
MAP M-3 AL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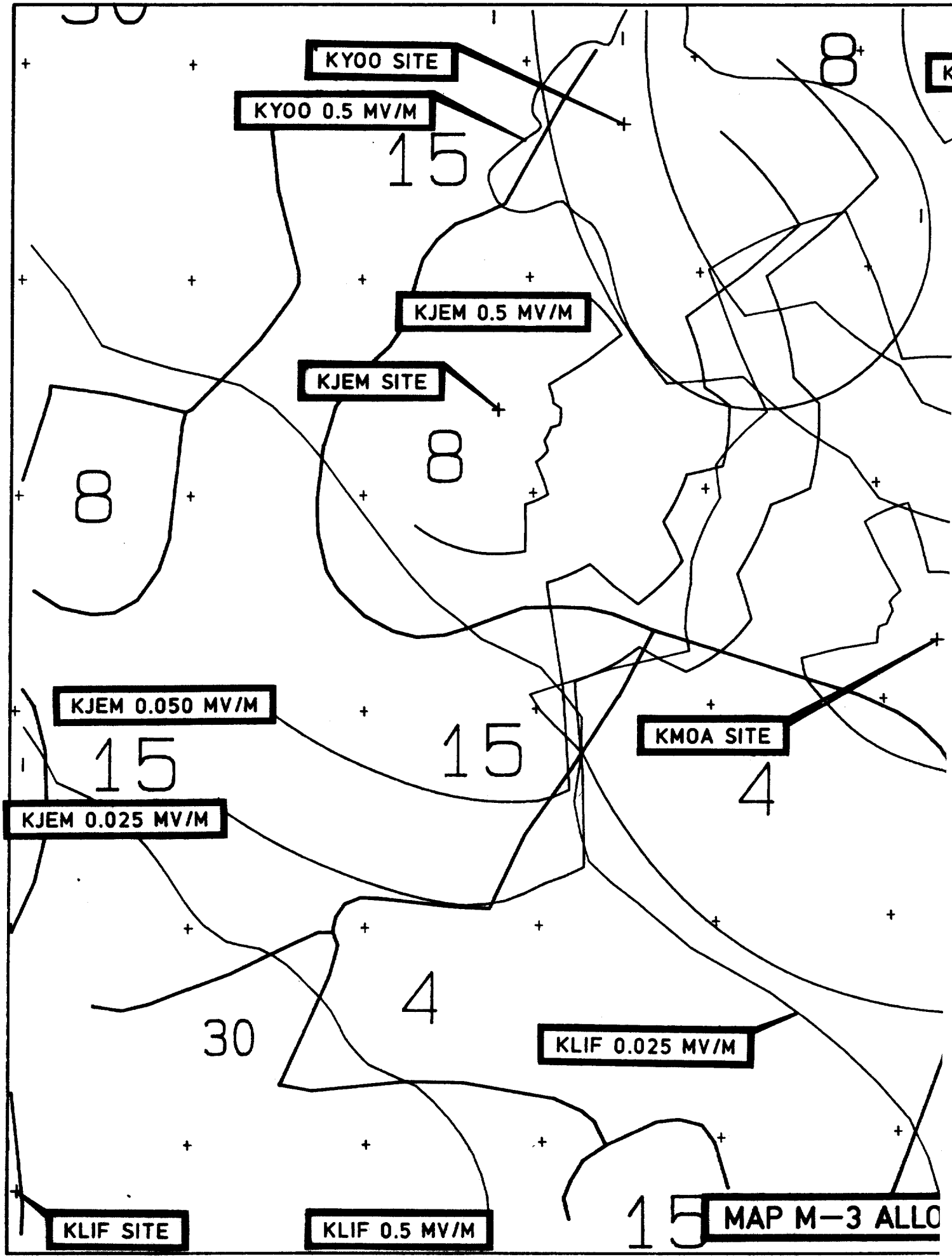
KHAD 0.025 MV/M
KHAD 0.5 MV/M
KHAD 0.050 MV/M
KYOO 0.5 MV/M
WHMT SITE
WHMT 0.5 MV/M
SITE
WHMT 0.025 MV/M
KMOA 0.5 MV/M
KMOA 0.025 MV/M
FIGURE 2
PAGE 1 OF 2
10 KW DAYTIME
KILOMETERS
50 0 50 100
REFERENCE POINT COORDS:
LATITUDE: 32 30 0
LONGITUDE: 97 0 0
MAP PROJECTION-ALBERS
TIC MARK INTERVAL: 1.0 °
LOCATION STUDY


KYOO SITE
KYOO 0.5 MV/M
15
8
KJEM 0.5 MV/M
KJEM SITE
8
8
KJEM 0.050 MV/M
15
15
KMOA SITE
4
KJEM 0.025 MV/M
4
30
KLIF 0.025 MV/M
15
KLIF SITE
KLIF 0.5 MV/M
MAP M-3 ALLO

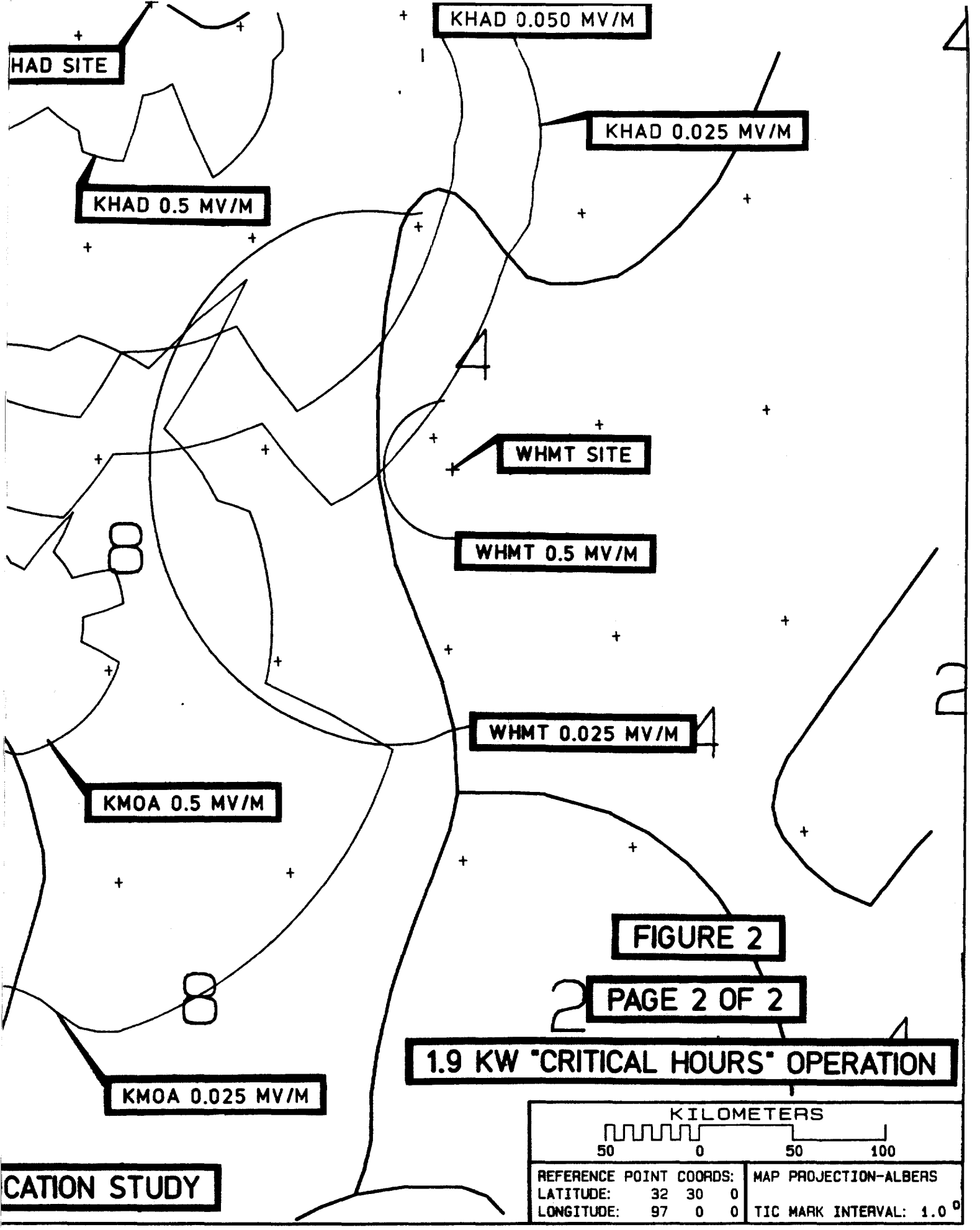


FIGURE 2

PAGE 2 OF 2

1.9 KW "CRITICAL HOURS" OPERATION

CATION STUDY

FIGURE 3

DAYTIME SKYWAVE STUDY TOWARDS WOWO - FORT WAYNE, INDIANA

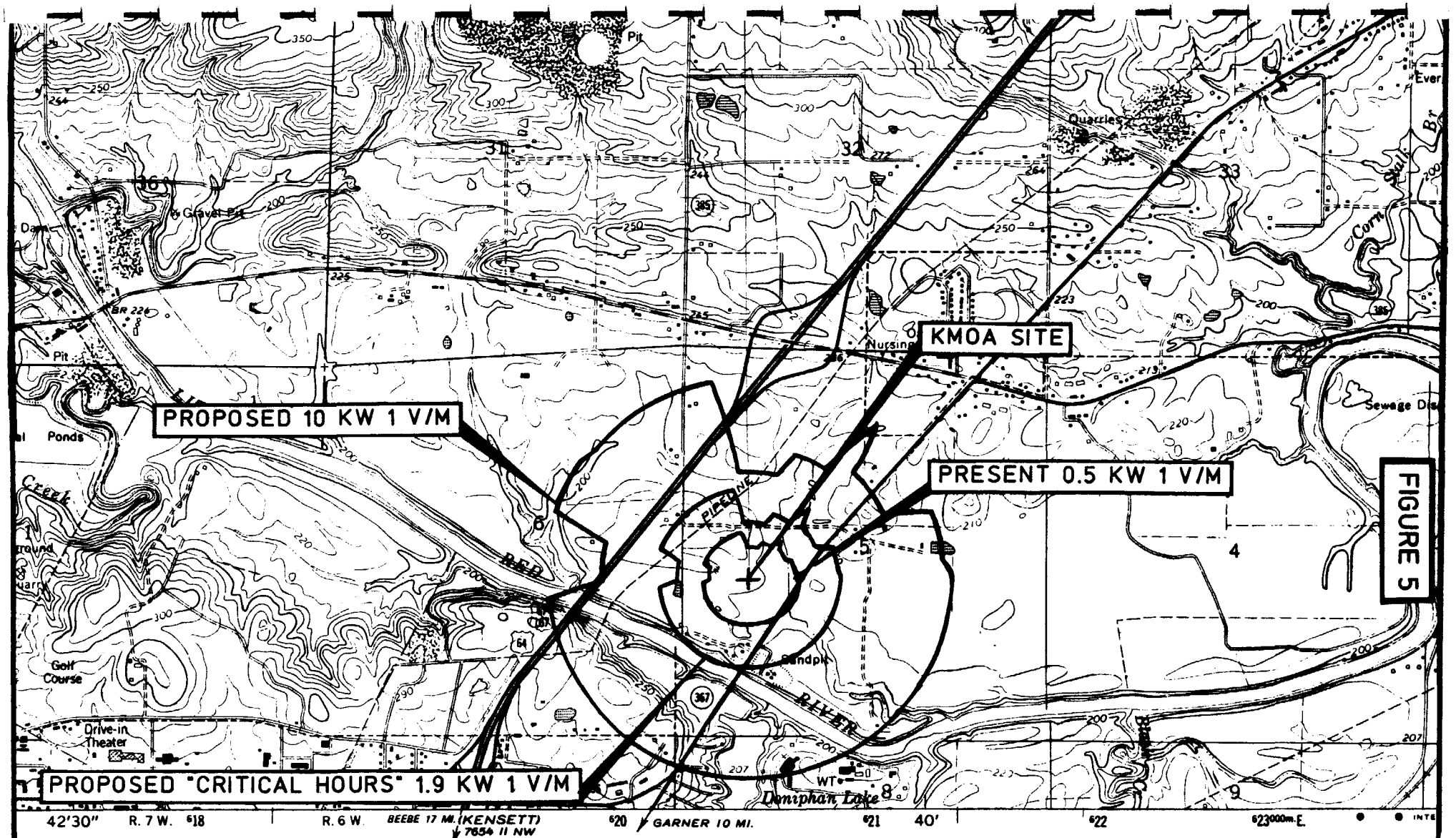
KMOA - KENSETT, ARKANSAS

FROM WOWO				FROM KMOA		
AZIMUTH	DISTANCE	LATITUDE	LONGITUDE	AZIMUTH	DISTANCE	ALLOWABLE RADIATION
150° T.	294.13 km	38-41-33	83-39-26	59.44° T.	807.5 km	504 mV/m
160° T.	291.90 km	38-31-24	84-12-15	59.15° T.	756.5 km	484 mV/m
170° T.	290.81 km	38-25-08	84-46-20	58.20° T.	707.2 km	464 mV/m
180° T.	290.85 km	38-22-48	85-21-06	56.48° T.	660.9 km	451 mV/m
190° T.	291.96 km	38-24-31	85-56-00	53.88° T.	619.1 km	431 mV/m
200° T.	293.93 km	38-30-22	86-30-25	50.33° T.	584.2 km	424 mV/m
210° T.	296.29 km	38-40-32	87-03-30	45.83° T.	558.8 km	424 mV/m
220° T.	294.63 km	38-56-42	87-32-30	40.58° T.	549.6 km	430 mV/m
230° T.	261.37 km	39-27-41	87-41-04	35.85° T.	585.1 km	455 mV/m
240° T.	261.37 km	39-47-25	88-00-06	31.64° T.	598.7 km	473 mV/m
250° T.	261.37 km	40-09-21	88-14-34	27.98° T.	622.3 km	495 mV/m
260° T.	263.20 km	40-32-40	88-25-14	24.93° T.	653.1 km	532 mV/m
270° T.	266.54 km	40-57-10	88-31-37	22.56° T.	690.1 km	564 mV/m
280° T.	267.32 km	41-22-16	88-30-28	21.16° T.	733.3 km	601 mV/m
290° T.	265.93 km	41-46-32	88-21-59	20.65° T.	779.3 km	647 mV/m

All radiations are in mV/m at one kilometer.

See Figure 1, pages 27 and 28 for calculation of WOWO 0.1 mV/m contour.

Maximum radiation during "critical hours" operation is 419 mV/m.



SCALE 1:24 000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

QUADRANGLE LOCATION

Heavy-du
Medium-

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND ARKANSAS GEOLOGICAL COMMISSION, LITTLE ROCK, ARKANSAS 72204

FIGURE 4

DESCRIPTION OF ANTENNA SYSTEM

KMOA - KENSETT, ARKANSAS

1. The KMOA antenna system consists of a single, vertical, guyed, insulated, uniform cross-section steel tower. The tower stands 200 feet or 61 meters (0.242 wavelengths or 87.1 degrees) above a two foot base and insulator for an overall height, including aviation warning beacon, of 205 feet or 62.5 meters (430 feet AMSL or 131 meters AMSL).

2. The KMOA ground system consists of 120 buried copper radials, 205 feet in length, of #10 AWG copper wire spaced every three degrees about the base of the tower.

3. The efficiency of the tower is 304 mV/m/kW at one kilometer.

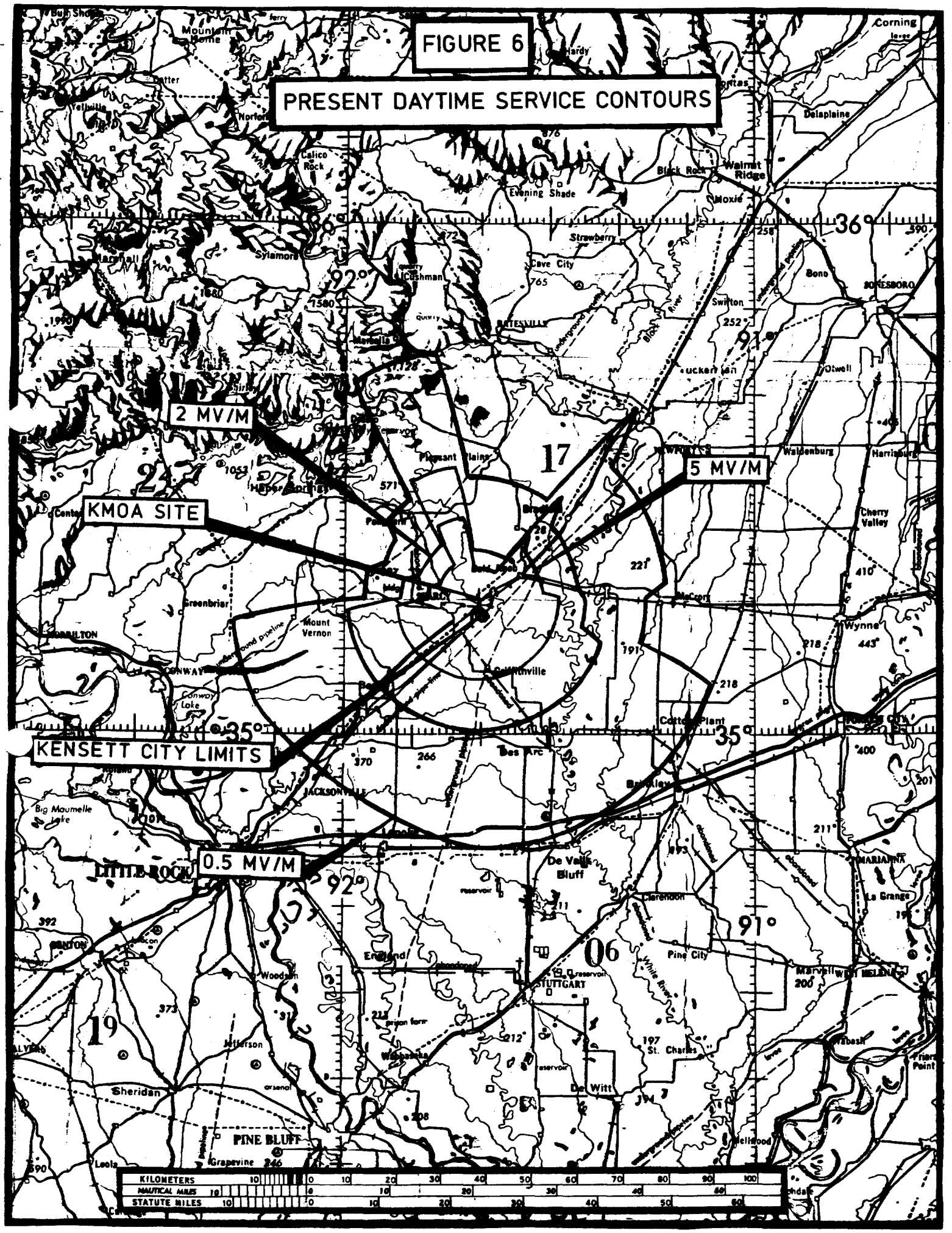


FIGURE 6
PRESENT DAYTIME SERVICE CONTOURS
2 MV/M
5 MV/M
KMOA SITE
KENSETT CITY LIMITS
0.5 MV/M
LITTLE ROCK
PINE BLUFF
JONESBORO
Mountain Home
Calico Rock
Evening Shade
Black Rock
Walnut Ridge
Moxie
Strawberry
Cave City
Cushman
Sylamore
Marshall
Batesville
Swifton
Bono
Otwell
Pleasant Plains
Waldenburg
Harrisburg
Cherry Valley
Wynne
Greenbrier
Mount Vernon
Conway
Conway Lake
Cotton Plant
Bay
Bald Knob
Bee Bee
Bayou Meto
Bayou Two Prairie
Big Maumelle Lake
Jacksonville
Lonoke
Carlisle
Hazen
Ulm
Des Arc
De Valls Bluff
Clarendon
Pine City
Marvell
Marianna
La Grange
Stuttgart
England
Woodson
Wabbaseka
Sheridan
Grapevine
Leola
Tollette
Wilbur
St. Charles
De Witt
Hellwood
Friars Point
Corning
Delaplaine
Bull Shoals
Yellville
Norfork
Mammoth Spring
Cotter
Hardy
Kensett
Beebe
Searcy
Morrilton
Conway
Greenbrier
Mayflower
Vilonia
Scott
Sherwood
Maumelle
Alexander
Bryant
Benton
Haskell
Alcoa
Malvern
Hot Springs
Arkadelphia
Gurdon
Prescott
Nashville
Hope
Texarkana
Magnolia
Stuttgart
Dermott
Lake Village
Eudora
Crossett
Monticello
Pine Bluff
Dumas
Gillett
Tichnor
Gregory
Lexa
Marianna
Helena
Clarendon
Brinkley
Cotton Plant
Wynne
Cherry Valley
Harrisburg
Jonesboro
Paragould
Piggott
Corning
Delaplaine
Black Rock
Walnut Ridge
Moxie
Strawberry
Cave City
Cushman
Sylamore
Marshall
Batesville
Swifton
Bono
Otwell
Pleasant Plains
Waldenburg
Harrisburg
Cherry Valley
Wynne
Greenbrier
Mount Vernon
Conway
Conway Lake
Cotton Plant
Bay
Bald Knob
Bee Bee
Bayou Meto
Bayou Two Prairie
Big Maumelle Lake
Jacksonville
Lonoke
Carlisle
Hazen
Ulm
Des Arc
De Valls Bluff
Clarendon
Pine City
Marvell
Marianna
La Grange
Stuttgart
England
Woodson
Wabbaseka
Sheridan
Grapevine
Leola
Tollette
Wilbur
St. Charles
De Witt
Hellwood
Friars Point
Pine Bluff
Little Rock
Benton
Alvin
Mammoth Spring
Cotter
Yellville
Norfork
Hardy
Kensett
Beebe
Searcy
Morrilton
Conway
Greenbrier
Mayflower
Vilonia
Scott
Sherwood
Maumelle
Alexander
Bryant
Benton
Haskell
Alcoa
Malvern
Hot Springs
Arkadelphia
Gurdon
Prescott
Nashville
Hope
Texarkana
Magnolia
Stuttgart
Dermott
Lake Village
Eudora
Crossett
Monticello
Pine Bluff
Dumas
Gillett
Tichnor
Gregory
Lexa
Marianna
Helena
Clarendon
Brinkley
Cotton Plant
Wynne
Cherry Valley
Harrisburg
Jonesboro
Paragould
Piggott
Corning
Delaplaine
Black Rock
Walnut Ridge
Moxie
Strawberry
Cave City
Cushman
Sylamore
Marshall
Batesville
Swifton
Bono
Otwell
Pleasant Plains
Waldenburg
Harrisburg
Cherry Valley
Wynne
Greenbrier
Mount Vernon
Conway
Conway Lake
Cotton Plant
Bay
Bald Knob
Bee Bee
Bayou Meto
Bayou Two Prairie
Big Maumelle Lake
Jacksonville
Lonoke
Carlisle
Hazen
Ulm
Des Arc
De Valls Bluff
Clarendon
Pine City
Marvell
Marianna
La Grange
Stuttgart
England
Woodson
Wabbaseka
Sheridan
Grapevine
Leola
Tollette
Wilbur
St. Charles
De Witt
Hellwood
Friars Point
Pine Bluff
Little Rock
Benton
Alvin
92°
91°
36°
35°
17
19
06
KILOMETERS
NAUTICAL MILES
STATUTE MILES

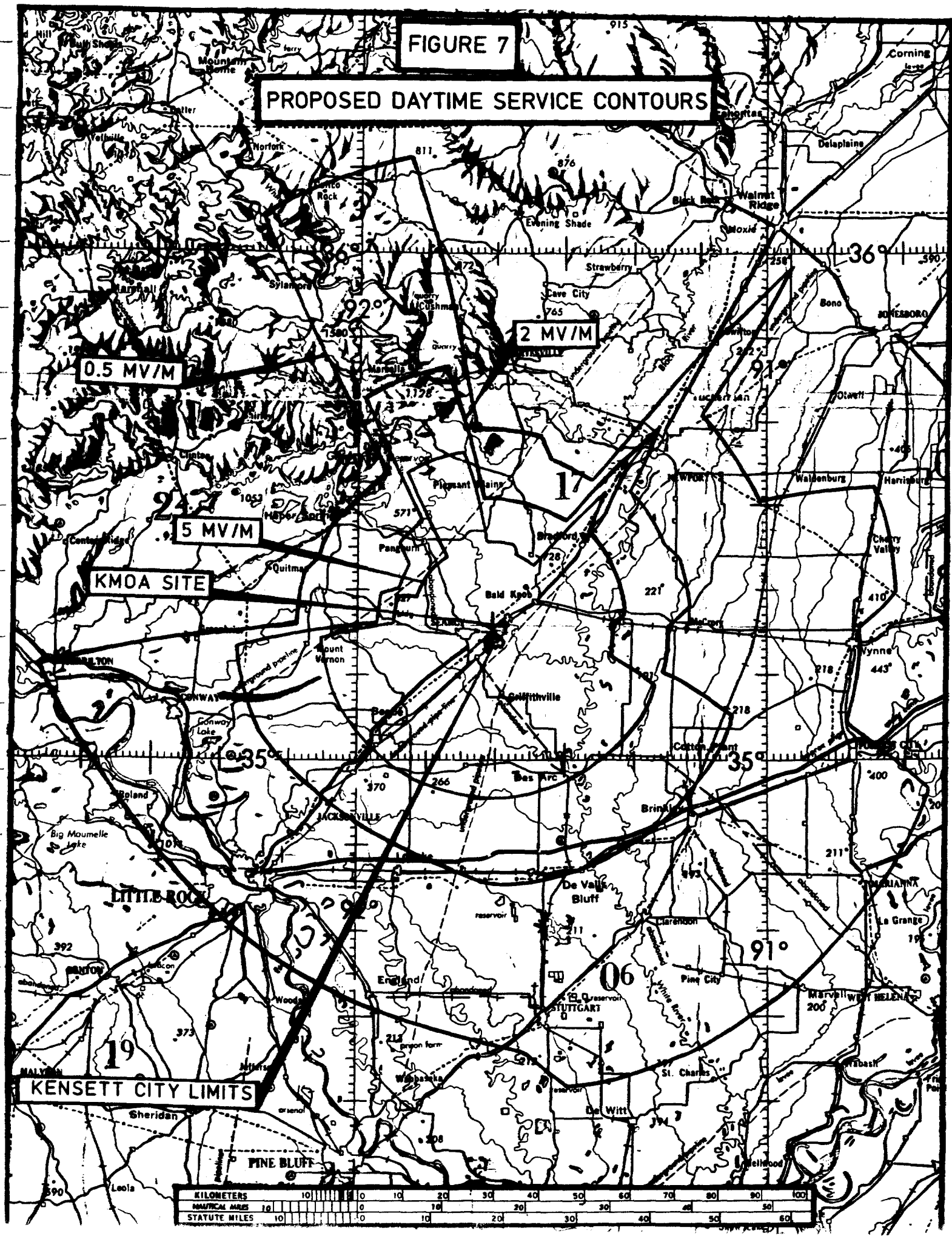


FIGURE 7
PROPOSED DAYTIME SERVICE CONTOURS
0.5 MV/M
2 MV/M
5 MV/M
KMOA SITE
KENSETT CITY LIMITS
LITTLE ROCK
PINE BLUFF
KILOMETERS
NAUTICAL MILES
STATUTE MILES

FIGURE 8

PROPOSED "CRITICAL HOURS" SERVICE CONTOURS

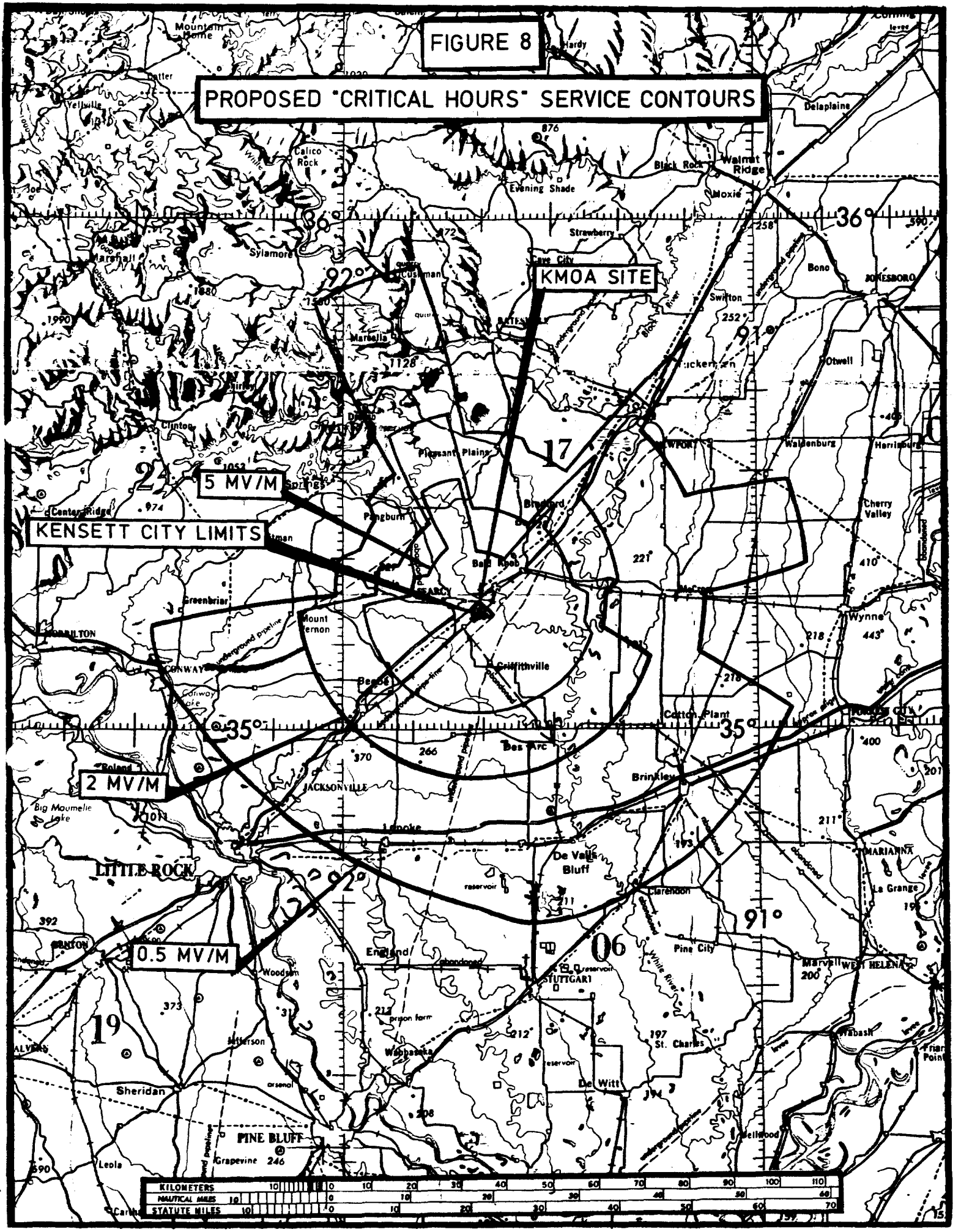
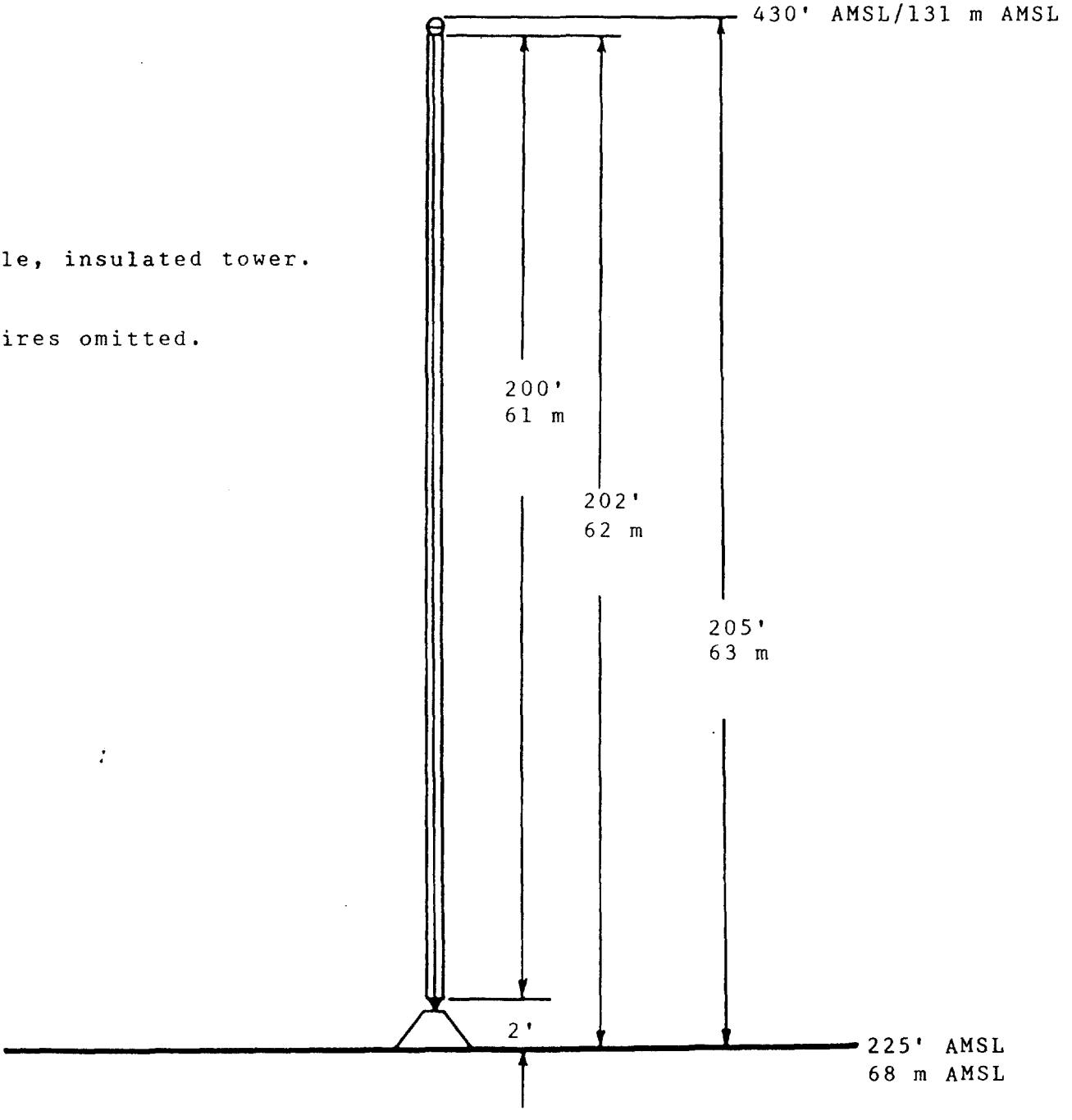


FIGURE 9

VERTICAL PLAN OF ANTENNA SYSTEM

KMOA - KENSETT, ARKANSAS



Single, insulated tower.

Guywires omitted.

not to scale

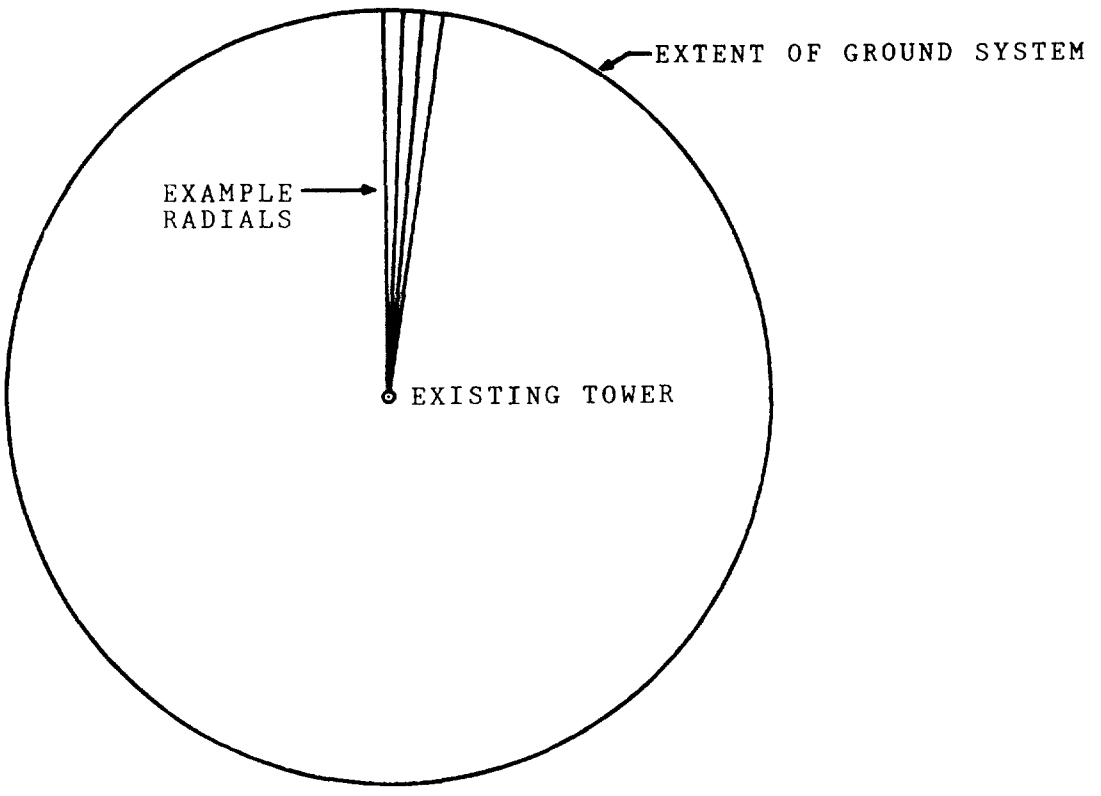
E. HAROLD MUNN, JR.
& ASSOCIATES, INC.
Broadcast Engineering Consultants
Coldwater, Michigan

FIGURE 10

HORIZONTAL PLAN OF ANTENNA SYSTEM

KMOA — KENSETT, ARKANSAS

GROUND SYSTEM: 120 Radials, 205 Feet in Length (63 m)



SCALE: 1 INCH = 100 FEET

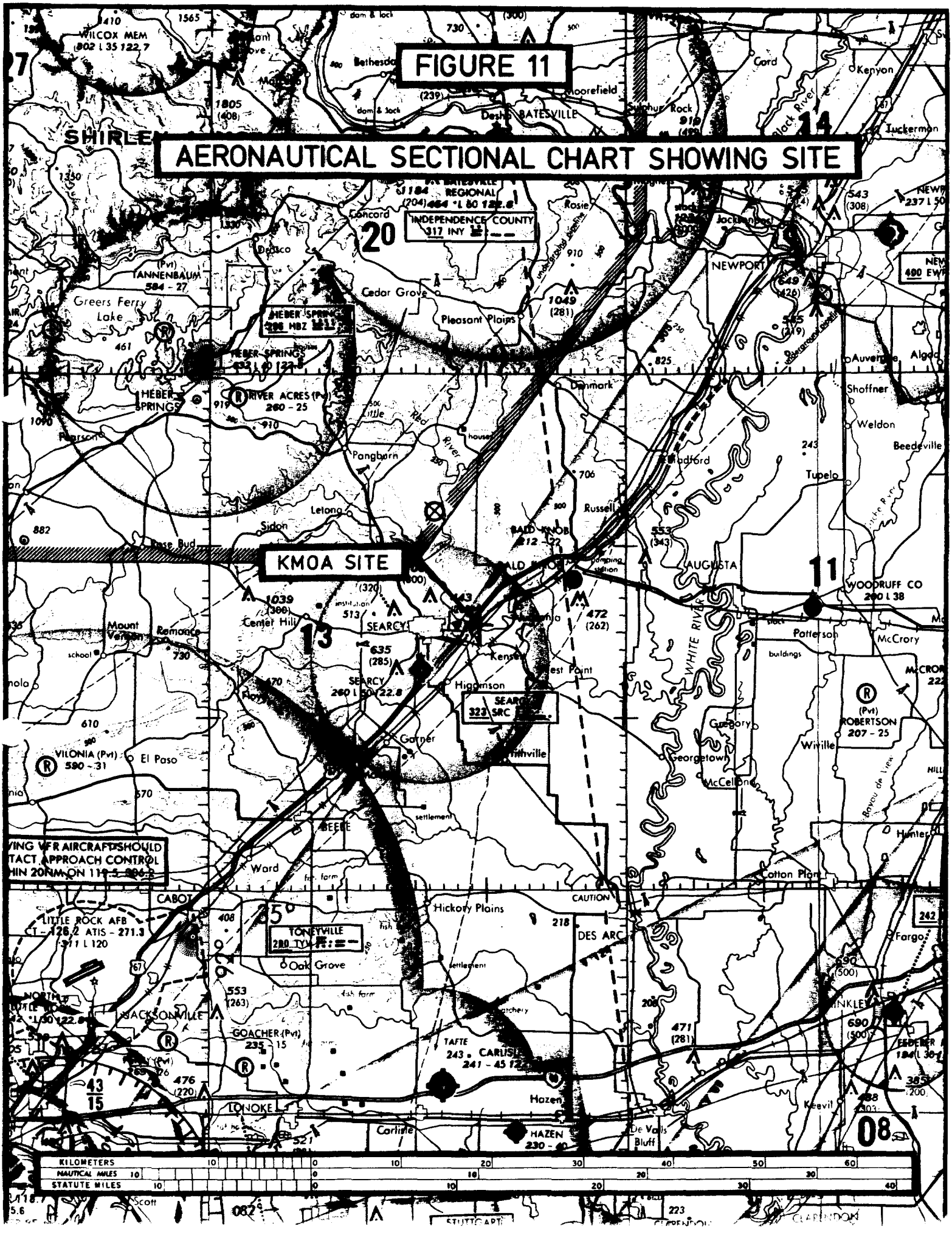
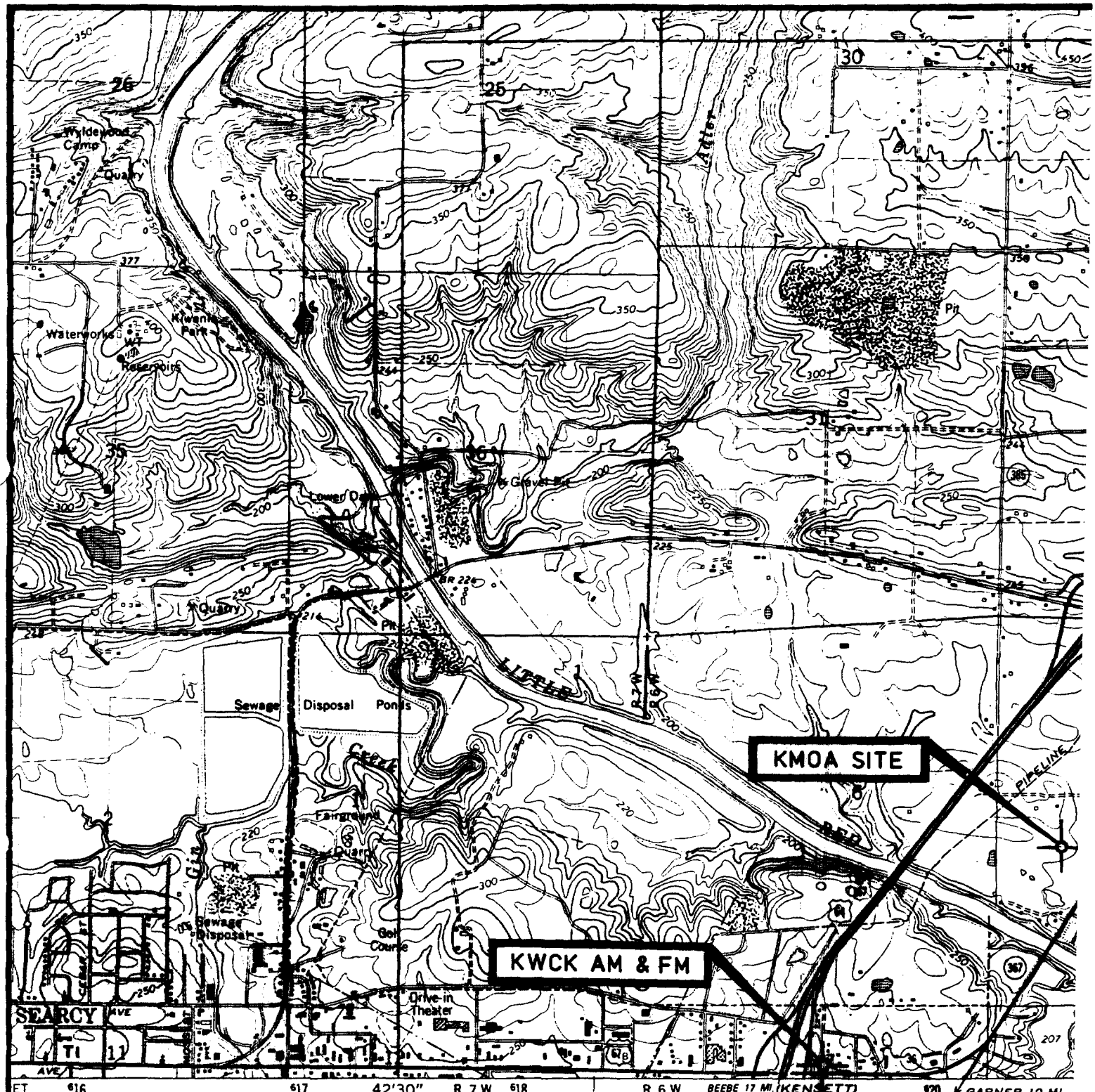


FIGURE 11
AERONAUTICAL SECTIONAL CHART SHOWING SITE
KMOA SITE
BATESVILLE
INDEPENDENCE COUNTY
NEWPORT
HEBER SPRINGS
SEARCY
AUGUSTA
WOODRUFF CO
CABOT
LITTLE ROCK AFB
JACKSONVILLE
LONOKE
HAZEN
DES ARC
Greers Ferry Lake
Cedar Grove
Pleasant Plains
Pangburn
Letona
Sidon
Rose Bud
Center Hill
Mount Vernon
Romance
Higginson
Garner
Ward
Hickory Plains
Oak Grove
Carlisle
Hazen
Keevil
Patterson
Tupelo
Weldon
Beedeville
Shoffner
Russell
Bradford
Denmark
Cotton Plant
Hunter
Fargo
Kenyon
Cord
Moorefield
Rosie
Concord
Desco
Tuckerman
Georgetown
McCrory
Wiville
Gregory
McCellon
Kensett
West Point
Floyd
El Paso
Beebe
Pearson
Little Red River
White River
Black River
Bayou de View
Scott
Stuttgart
Clarendon
KILOMETERS
NAUTICAL MILES
STATUTE MILES



SCALE 1:24 000

1 ½ 0

1000 0 1000 2000 3000 4000 5000 6000

1 .5 0 1 KILOM

MN
GN
0°46'
14 MILS
4°
71 MILS

UTM GRID AND 1981 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET

CONTOUR INTERVAL 10 FEET
DOTTED LINES REPRESENT 5-FOOT CONTOURS
NATIONAL GEODETIC VERTICAL DATUM OF 1929

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VI

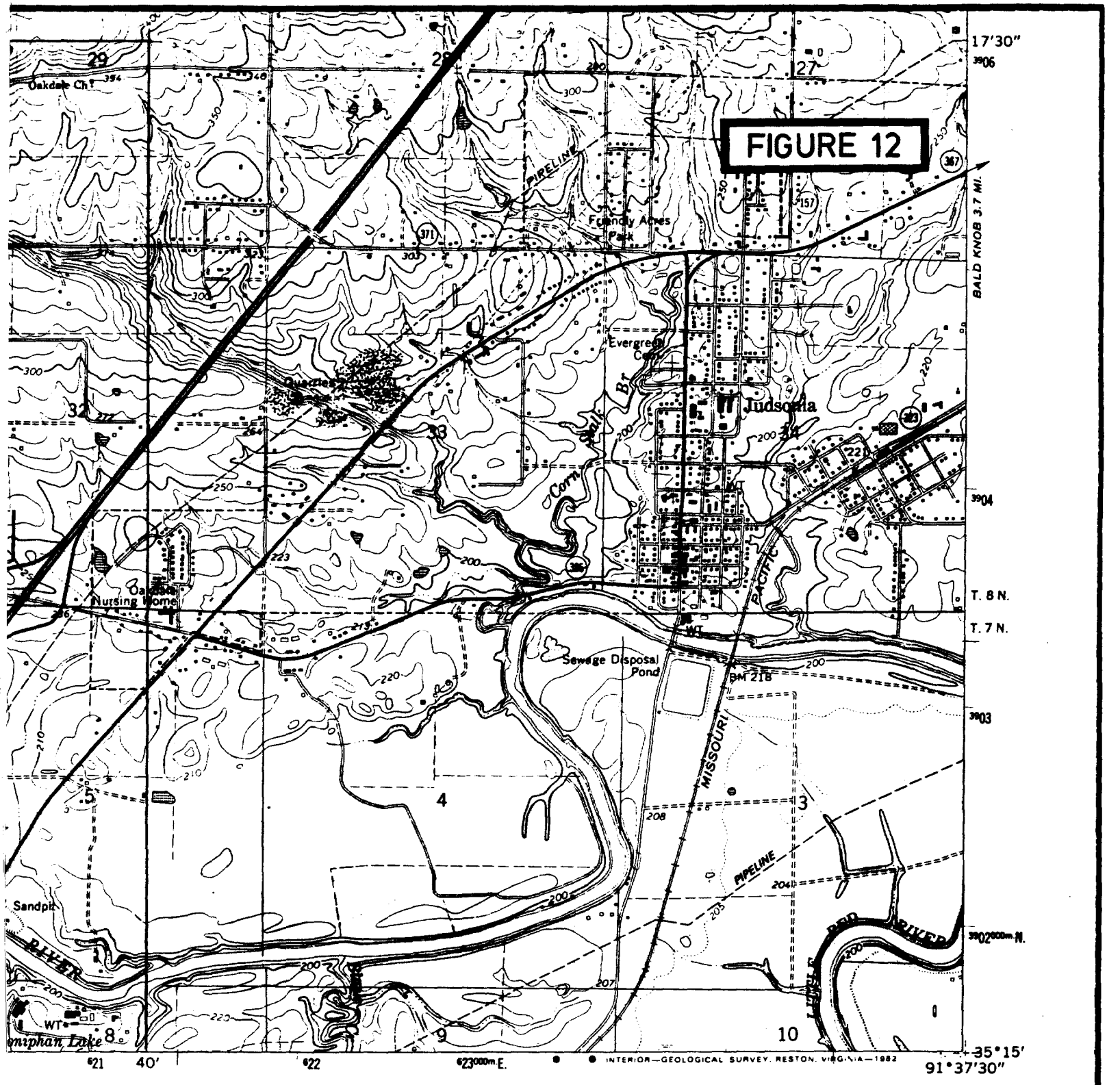
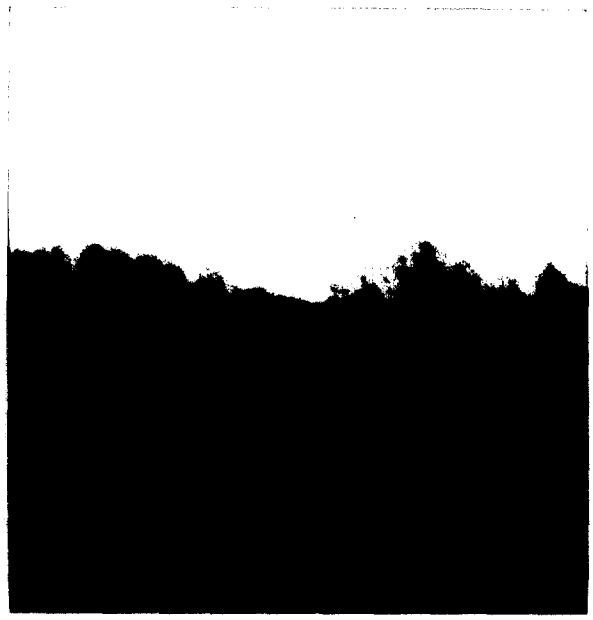


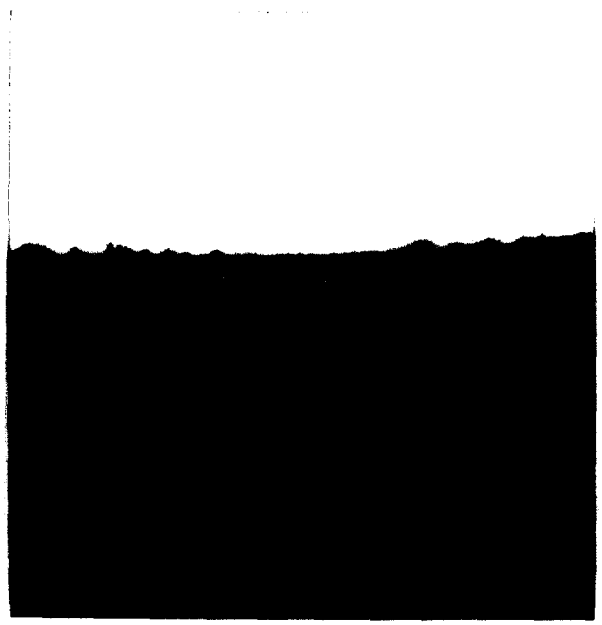
FIGURE 12
17'30"
3906
Oakdale Ch
PIPELINE
Foundy Acres Park
BALD KNOB 3.7 MI.
Evergreen Cem
Quarries
Judsonia
Corn Hall Br
Oakdale Nursing Home
T. 8 N.
T. 7 N.
3904
Sewage Disposal Pond
BM 218
3903
MISSOURI PACIFIC
PIPELINE
Sandpit
RIVER
RED RIVER
3902000m N.
35°15'
91°37'30"
621
40'
622
623000m E.
INTERIOR—GEOLOGICAL SURVEY, RESTON, VIRGINIA—1982
(WEST POINT) 7664 II NE
1 MILE
FEET
ROAD CLASSIFICATION
Heavy-duty
Light-duty
Medium-duty
Unimproved dirt
U. S. Route
State Route
ARKANSAS
QUADRANGLE LOCATION
JUDSONIA, ARK.
N3515—W9137.5/7.5
1965

FIGURE 13 PHOTOGRAPHS OF KMOA SITE

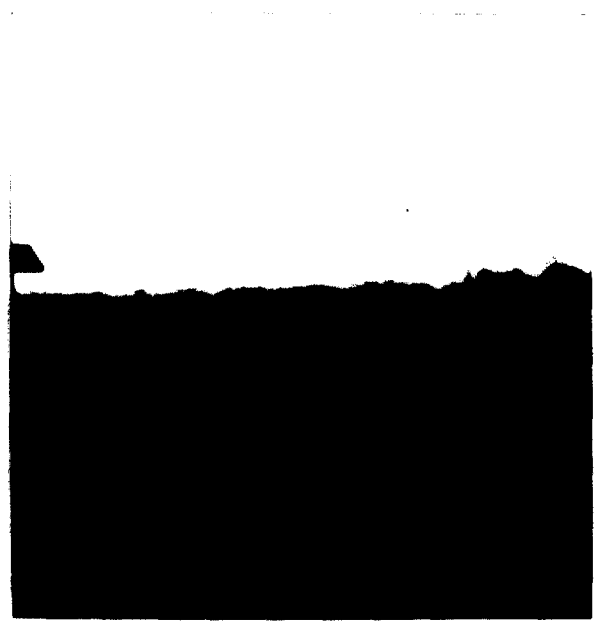
NORTH



NORTHEAST



EAST



SOUTHEAST