

<b>Section V-B - FM BROADCAST ENGINEERING DATA</b>	<b>FOR COMMISSION USE ONLY</b> File No. _____ ASB Referral Date _____ Referred by _____
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Name of Applicant  
 Phoenix Broadcasting, Inc.

Call letters (if issued) None	Is this application being filed in response to a window? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, specify closing date: <u>September 26, 1991</u>
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Purpose of Application: (check appropriate boxes)

<input checked="" type="checkbox"/> Construct a new (main) facility	<input type="checkbox"/> Construct a new auxiliary facility
<input type="checkbox"/> Modify existing construction permit for main facility	<input type="checkbox"/> Modify existing construction permit for auxiliary facility
<input type="checkbox"/> Modify licensed main facility	<input type="checkbox"/> Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

<input type="checkbox"/> Antenna supporting-structure height	<input type="checkbox"/> Effective radiated power
<input type="checkbox"/> Antenna height above average terrain	<input type="checkbox"/> Frequency
<input type="checkbox"/> Antenna location	<input type="checkbox"/> Class
<input type="checkbox"/> Main Studio location	<input type="checkbox"/> Other (Summarize briefly)

File Number(s) \_\_\_\_\_

1. Allocation:

Channel No.	Principal community to be served:			Class (check only one box below)
224	City Chico	County Butte	State CA	<input checked="" type="checkbox"/> A <input type="checkbox"/> B1 <input type="checkbox"/> B <input type="checkbox"/> C3 <input type="checkbox"/> C2 <input type="checkbox"/> C1 <input type="checkbox"/> C

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.  
 Doe Mill Ridge, 3.9 kilometres NW of Paradise, Butte County, California.

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

Latitude	39°	47'	01"	Longitude	121°	40'	37"
----------	-----	-----	-----	-----------	------	-----	-----

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)?  Yes  No

If Yes, give call letter(s) or file number(s) or both. KNVR

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.  
Not Applicable

4. Does the application propose to correct previous site coordinates?  Yes  No  
 If Yes, list old coordinates.

Latitude	Longitude
----------	-----------

5. Has the FAA been notified of the proposed construction?  Yes  No  
 If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available. Exhibit No.

Not Required

Date \_\_\_\_\_ Office where filed \_\_\_\_\_

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	None	_____	_____
(b)	_____	_____	_____

7. (a) Elevation: (to the nearest meter)

- (1) of site above mean sea level; \_\_\_\_\_ 488 meters
- (2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and \_\_\_\_\_ 53 meters
- (3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] \_\_\_\_\_ 541 meters

(b) Height of radiation center: (to the nearest meter) H - Horizontal; V - Vertical

- (1) above ground \_\_\_\_\_ 18 meters (H)
- \_\_\_\_\_ 18 meters (V)
- (2) above mean sea level [(aX1) + (bX1)] \_\_\_\_\_ 506 meters (H)
- \_\_\_\_\_ 506 meters (V)
- (3) above average terrain \_\_\_\_\_ 91 meters (H)
- \_\_\_\_\_ 91 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(b)(3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No.  
 E-2

9. Effective Radiated Power:

(a) ERP in the horizontal plane \_\_\_\_\_ 2.8 kw (H=) \_\_\_\_\_ 2.8 kw (V=)

(b) Is beam tilt proposed?  Yes  No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No.  
 N/A

\_\_\_\_\_ kw (H=) \_\_\_\_\_ kw (V=)

-Polarization

10. Is a directional antenna proposed?

Yes  No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of the relative field.

Exhibit No.  
N/A

11. Will the proposed facility satisfy the requirements of 47 C.F.R. Sections 73.315(a) and (b)?

Yes  No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 316 mV/m service.

Exhibit No.  
N/A

12. Will the main studio be within the ~~protected~~ <sup>predicted</sup> 316 mV/m field strength contour of this proposal?

Yes  No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125.

Exhibit No.  
N/A

13. (a) Does the proposed facility satisfy the requirements of 47 C.F.R. Section 73.207?

Yes  No

(b) If the answer to (a) is No, does 47 C.F.R. Section 73.213 apply?

N/A  Yes  No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers.

Exhibit No.  
N/A

(d) If the answer to (a) is No and the answer to (b) is No, attach as an Exhibit a statement describing the short spacing(s) and how it or they arose.

Exhibit No.  
N/A

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No.  
N/A

- (1) Protected and interfering contours, in all directions (360°), for the proposed operation.
- (2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as the transmitter location.
- (3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
- (4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
- (5) The official title(s) of the map(s) used in the exhibit(s).

14. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast (except citizens band or amateur) radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference?

Yes  No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. (See 47 C.F.R. Sections 73.315(b), 73.316(e) and 73.318.)

Exhibit No.  
E-1

15. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.  
E-3

16. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
E-5

(a) the proposed transmitter location, and the radials along which profile graphs have been prepared;

(b) the 816 mV/m and 1 mV/m predicted contours; and

(c) the legal boundaries of the principal community to be served.

17. Specify area in square kilometers (1 sq. mi. = 259 sq. km.) and population (latest census) within the predicted 1 mV/m contour. (1990 U.S. Census:)

Area 2680 sq. km. Population 154,530

18. For an application involving an auxiliary facility only, attach as an Exhibit a map *(Sectional Aeronautical Chart or equivalent)* that shows clearly, legibly, and accurately, and with latitude and longitude markings and a scale of distance in kilometers:

Exhibit No.  
N/A

(a) the proposed auxiliary 1 mV/m contour; and

(b) the 1 mV/m contour of the licensed main facility for which the applied-for facility will be auxiliary. Also specify the file number of the license.

19. Terrain and coverage data *(to be calculated in accordance with 47 C.F.R. Section 73.313)*

Source of terrain data: *(check only one box below)*

Linearly interpolated 30-second database  7.5 minute topographic map

(Source: \_\_\_\_\_)

Other *(briefly summarize)*

KNVR File At FCC

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 8 to 16 km (meters)	Predicted Distances	
		To the 616 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
-			
0			
45	See Exhibit No. E-4		
90			
135			
180			
225			
270			
315			

\*Radial through principal community. If not one of the major radials. This radial should NOT be included in the calculation of HAAT.

20. Environmental Statement (See 47 C.F.R. Section 1.1301 et seq.)

Would a Commission grant of this application come within Section 11807 of the FCC Rules, such that it may have a significant environmental impact?  Yes  No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 11811.

Exhibit No.  
N/A

If No, explain briefly why not. See Exhibit No. E-1

CERTIFICATION

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

Name (Typed or Printed) Charles I. Gallagher	Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer
Signature <i>Charles I. Gallagher</i>	Address (Include ZIP Code) Gallagher & Associates 5385 Broadwater Lane Clarksville, MD 21029
Date September 24, 1991	Telephone No. (Include Area Code) (301) 854-2636

# GALLAGHER & ASSOCIATES

CONSULTING RADIO ENGINEERS

CLARKSVILLE MD

EXHIBIT NO. E-1

ENGINEERING STATEMENT  
IN REGARD TO THE  
APPLICATION FOR CONSTRUCTION PERMIT  
NEW FM BROADCAST STATION  
CHANNEL 224A, CHICO, CALIFORNIA  
ERP 2.8 kW AT 91 METRES AAT

This engineering statement and associated exhibits have been prepared on behalf of Phoenix Broadcasting, Inc., an applicant for a new FM broadcast station at Chico, California, to operate on Channel 224A with an effective radiated power of 2.8 kW and an antenna height of 91 metres above average terrain. This engineering report contains Section V-B of FCC Form 301 and the exhibits and data required by that section and the FCC Rules.

It is proposed to side-mount the transmitting antenna on the same tower used by KNVR, Chico, California. The location of the proposed transmitting site is described on the forms and exhibits attached hereto. When rounded to the nearest whole kilometre, the transmitting site will comply with all of the separation requirements of Section 73.207 of the FCC Rules. In addition to KNVR, there are three other FM stations and one TV station located within 10 kilometres of the site proposed herein. The applicant will employ such measures as necessary to assure operation in accordance with Section 73.317 of the FCC Rules. The effects of receiver induced intermodulation are dependent on the characteristics of the individual receivers involved and therefore cannot be predicted. The site

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EXHIBIT NO. E-1

Page 2

is in a sparsely populated area. If complaints of interference are received, the applicant agrees to rectify any complaints in accordance with Section 73.318 of the Commission's Rules, and past policies regarding such interference.

Exhibit No. E-5 is a Department of Commerce Sectional Aeronautical Chart showing the proposed site, radials used for terrain analysis, the 3.16 mV/m and 1 mV/m contours, and the city limits of Chico, as well as the original printed latitude and longitude markings. Phoenix Broadcasting, Inc. is licensee of KCEZ, Corning, California, authorized to operate on FM Channel 264B (100.7 MHz) with an ERP of 50 kW and an antenna height of 83 metres above average terrain from a transmitting site 82 kilometres west of the site proposed herein. Exhibit No. E-5 also shows that the KCEZ 3.16 mV/m contour does not overlap the proposed 3.16 mV/m contour. Thus, the proposed operation would be in compliance with Section 73.3555(a)(2) of the FCC Rules. The distance to the field strength contours shown were determined in accordance with Section 73.313 of the Commission's Rules using a computer program that duplicates the results that would be obtained from Figure 1 and Figure 1a of Section 73.333 of the Rules. The average 3 to 16 kilometre terrain elevation of each radial was obtained from the data contained in the KNVR and KCEZ file at the FCC.

In October, 1985, the Commission issued OST Bulletin No. 65, entitled "Evaluating Compliance with the FCC-Specified Guidelines for Human Exposure to Radiofrequency Radiation". The following evaluation is based on the formula and procedures contained in that document. The

existing KNVR transmitting antenna is an ERI Type G5CPM-3E ("Rototiller") non-directional antenna consisting of three bays spaced one full wavelength. The center of radiation is 27 metres above ground level, and the lowest element is 24 metres above ground level. The proposed transmitting antenna will be the same type non-directional antenna and will consist of three bays spaced one full wavelength. The center of radiation is 18 metres above ground level, and the lowest element is 15 metres above ground level. The elevation (vertical) plane pattern for both antennas is included herewith as Exhibit No. E-6.

The attached Exhibit No. E-7A tabulates the R.F. power density in microwatts per square centimetre at two metres above ground level as produced by KNVR based on an ERP of 6 kW (combined polarization) and takes into consideration the slant range and the relative field pattern shown on the attached Exhibit No. E-6. The first column on Exhibit No. E-7A is the horizontal distance from the base of the supporting structure. The second column, labeled "slant range", is the distance from the lowest element on the antenna to a location two metres above the location described in the first column. The third column is the angle below the horizontal and the fourth column is the relative field as read from Exhibit No. E-6. The value of R.F. power density was calculated using the formula and procedures described in OST-65, and the percent R.F.P.G. is based on the ANSI recommended R.F. Protection Guide of  $1000 \mu\text{W}/\text{cm}^2$  for FM frequencies. The attached Exhibit No. E-7B contains the same information as Exhibit No. E-7A, as related to the proposed operation.

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EXHIBIT NO. E-1

Page 4

As can be seen from Exhibit No. E-7A, the highest value of R.F. power density produced by the KNVR facility is  $66.5 \mu\text{W}/\text{cm}^2$  or 6.65% of the R.F.P.G. established by ANSI. Exhibit No. E-7B shows the highest value of R.F. power density produced by the proposed facility is  $168.8 \mu\text{W}/\text{cm}^2$  or 16.88% of the R.F.P.G. established by ANSI. The combined power density using the highest figures for each operation amounts to 23.5% of the R.F.P.G. established by ANSI. A fence has been installed to prevent unauthorized access to the tower. Suitable procedures have been established for workers who must climb the tower. Therefore, the proposed facilities are in compliance with Section 1.1307(b) of the Code of Federal Regulations.

It is proposed to side-mount the FM broadcast transmitting antenna on an existing tower. No changes in the overall height, location or obstruction lighting are proposed. Further, as discussed above, the proposed operation would not involve conflict with Section 1.1307(b) of the FCC Rules. Therefore, pursuant to Section 1.1306(b) of the Rules, any Commission action with respect to this application will be categorically excluded from environmental processing.

It is believed that the operation proposed herein will be in accordance with all of the allocation and technical requirements of the FCC Rules governing FM broadcast stations.

This engineering statement and associated exhibits have been prepared by or under the direct supervision of Charles I. Gallagher, who states that he is a Consulting Radio Engineer, and a Registered

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EXHIBIT NO. E-1

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Professional Engineer in the State of Maryland, No. 11415, that his qualifications are a matter of record with the Federal Communications Commission, having been presented on previous occasions. All data and statements contained herein are true and correct to the best of his knowledge and belief.

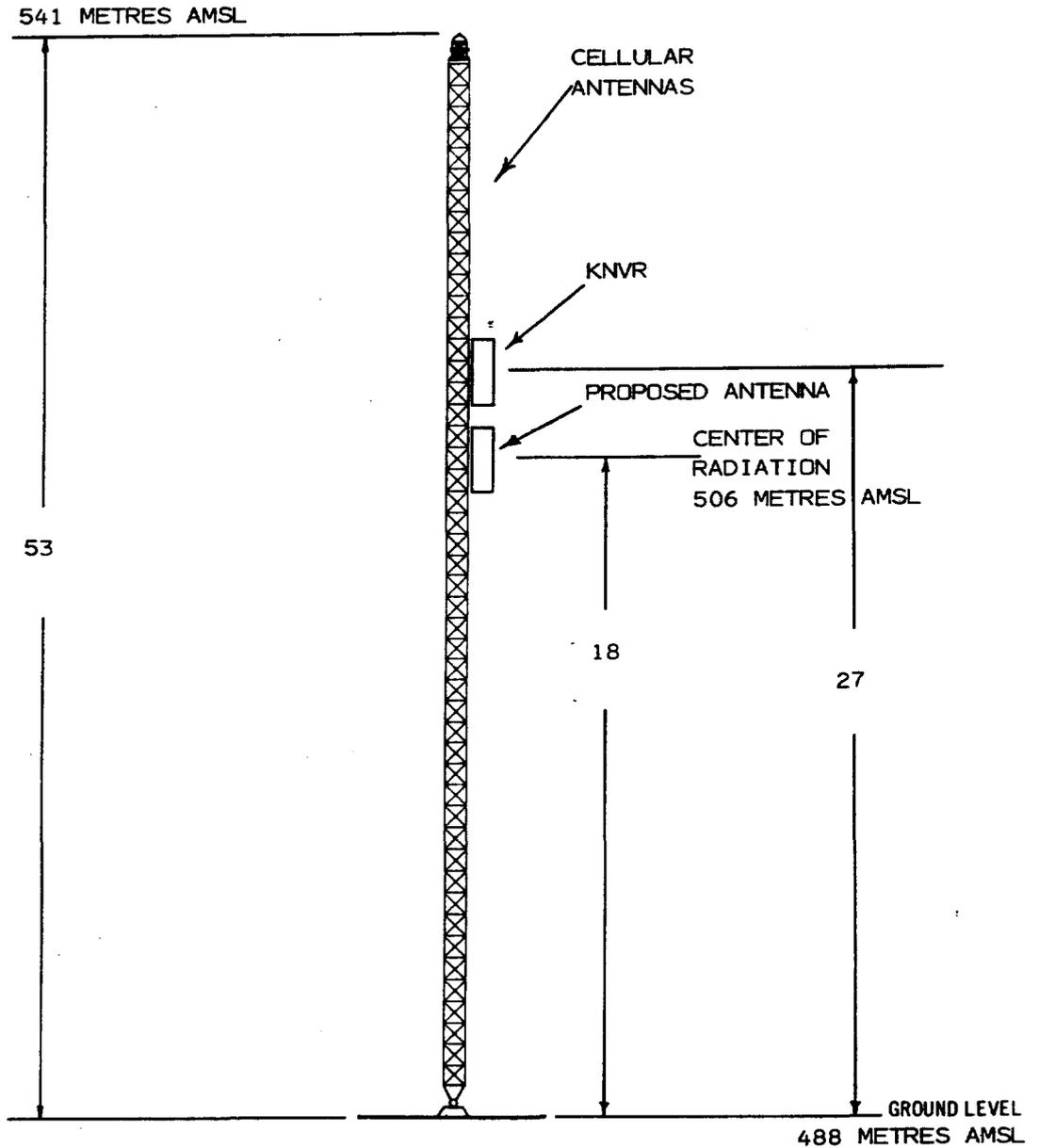
*Charles I. Gallagher*

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Charles I. Gallagher

September 24, 1991

ALL HEIGHTS IN METRES



NOT TO SCALE

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CONSULTING RADIO ENGINEERS      CLARKSVILLE MD

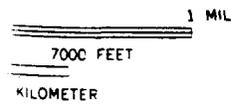
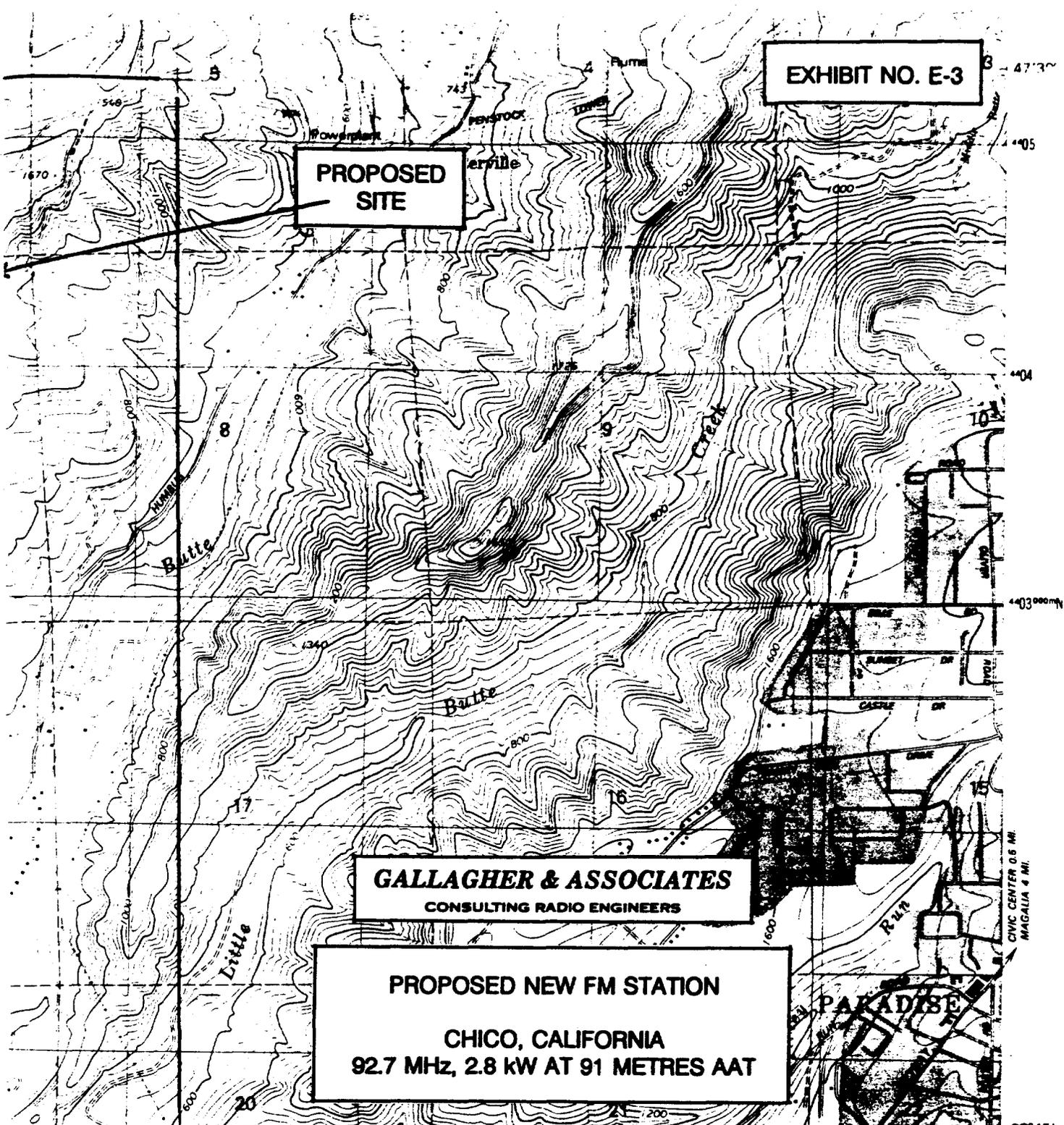
VERTICAL SKETCH  
NEW FM, CHICO, CALIFORNIA  
CHANNEL 224A

EXHIBIT NO. E-3

PROPOSED SITE

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PROPOSED NEW FM STATION  
CHICO, CALIFORNIA  
92.7 MHz, 2.8 kW AT 91 METRES AAT



ROAD CLASSIFICATION

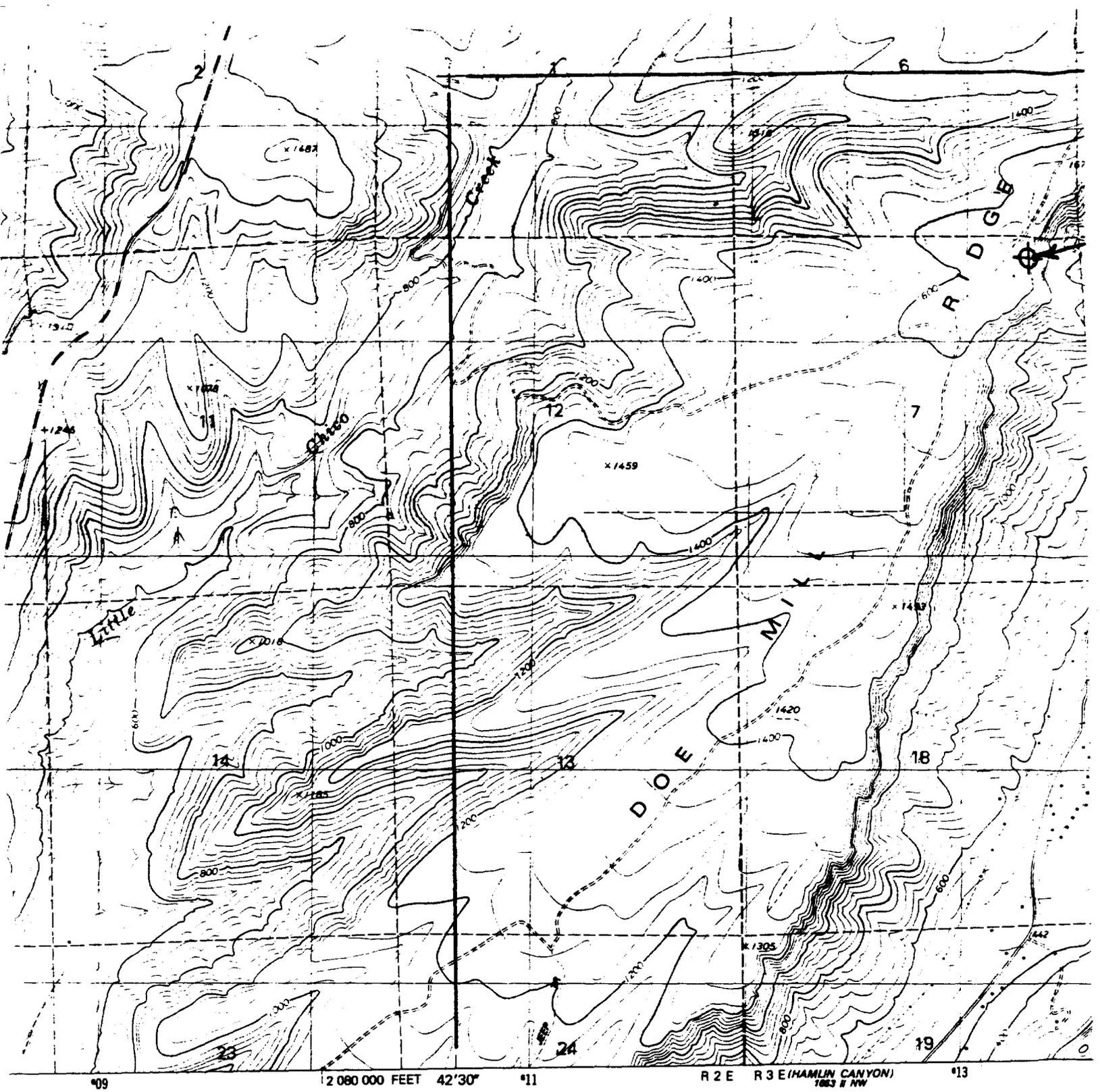
Primary highway, hard surface	—————	Light-duty road, hard or improved surface	—————
Secondary highway, hard surface	—————	Unimproved road	- - - - -
○ Interstate Route	○ U. S. Route	○ State Route	

PARADISE WEST, CALIF.  
SW/4 PARADISE 15' QUADRANGLE  
N3945-W12137.5/7.5

1980

LMA 1663 | SW—SERIES V895

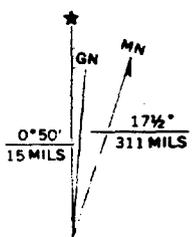
N. VIRGINIA 22092  
REQUEST



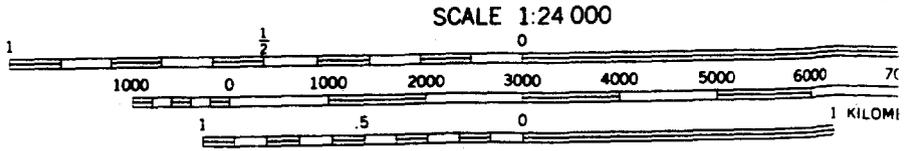
ecological Survey

erial  
ordinate  
one 10  
1983

Buildings are shown  
field lines where  
vegetation is unchecked



UTM GRID AND 1980 MAGNETIC NORTH DECLINATION AT CENTER OF SHEET



SCALE 1:24 000  
CONTOUR INTERVAL 40 FEET  
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, VIF  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUE

EXHIBIT NO. E-4

CALCULATED COVERAGE CONTOURS  
NEW FM BROADCAST STATION  
CHICO, CALIFORNIA  
ERP 2.8 KW AT 91 METRES AAT

AZIMUTH DEGREES	ANTENNA HAAT (METRES)	E.R.P. IN KW	70 dBu KILOMETRES	60 dBu KILOMETRES
0	-165	2.800	7.3	13.0
45	-248	2.800	7.3	13.0
90	-104	2.800	7.3	13.0
135	131	2.800	15.2	26.8
180	326	2.800	24.1	40.6
225	357	2.800	25.2	42.3
270	349	2.800	24.9	41.9
315	79	2.800	11.8	21.2
246*	365	2.800	25.4	42.7

Antenna height above average terrain = 91 METRES

\* Radial through principal community, NOT included in average  
Average figures are expressed to the nearest whole  
number and are based on accuracy to nearest metre.

30'

The Field Strength Contours shown on this map were calculated using the procedures set forth in the FCC Rules. Actual Field Strength may be different than shown.

# SAN FRANCISCO SECTIONAL AERONAUTICAL CHART

SCALE: 1:500,000

KCEZ SITE

PROPOSED 1 MV/M CONTOUR

CHICO CITY LIMITS

PROPOSED SITE

PROPOSED 3.16 MV/M CONTOUR

KCEZ 3.16 MV/M CONTOUR

**CALCULATED CONTOURS  
PROPOSED NEW FM STATION  
CHICO, CALIFORNIA  
CHANNEL 224A - 92.7 MHz  
2.8 kW AT 91 METRES AAT**

EXHIBIT NO. E-5



GALLAGHER & ASSOCIATES  
CONSULTING RADIO ENGINEERS  
CLARKSVILLE MD

ELECTRONICS RESEARCH, INC.  
108 MARKET STREET  
NEWBURGH, IN. 47632

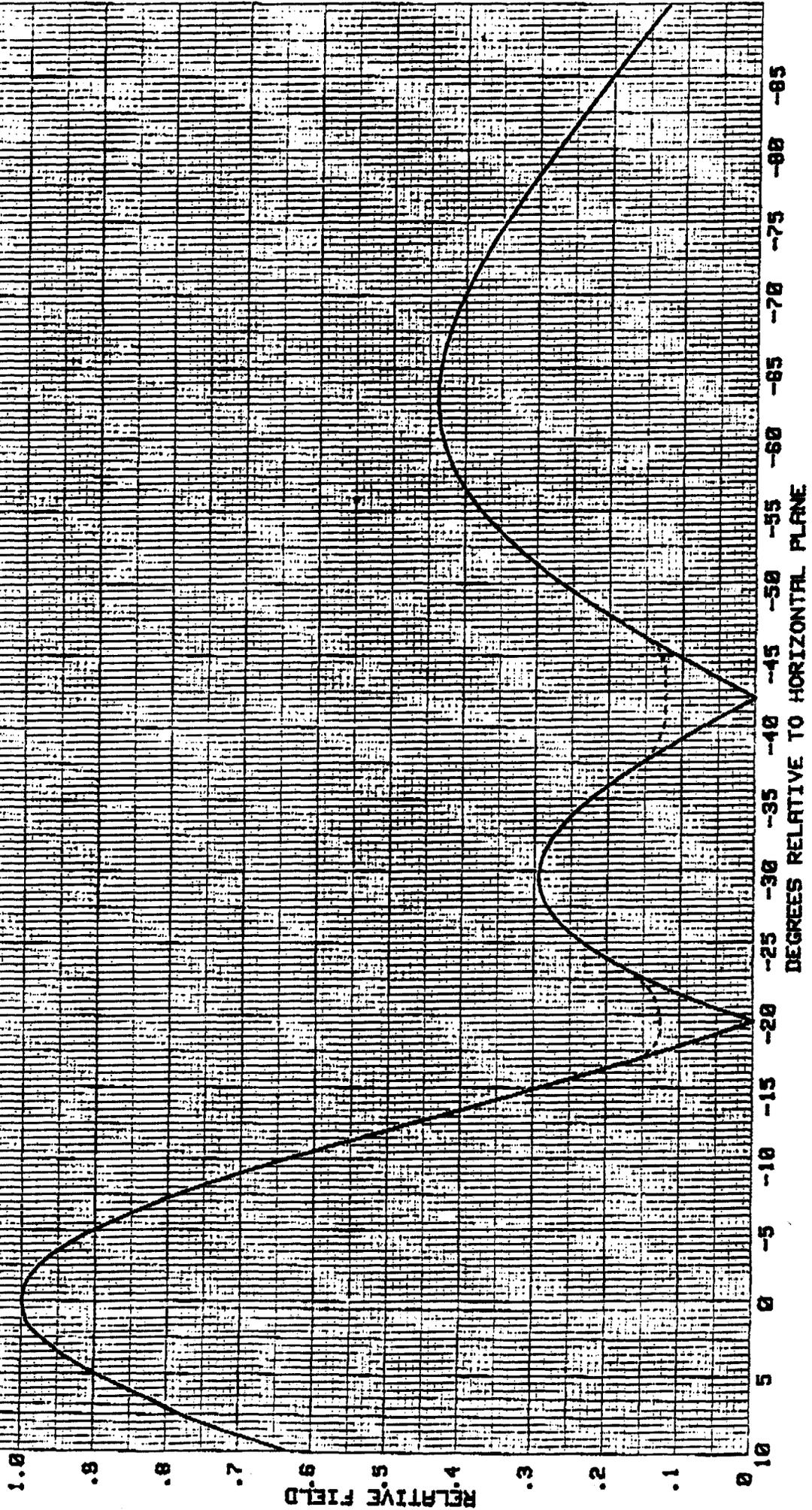
THEORETICAL  
VERTICAL PLANE RELATIVE FIELD

MAY 18, 1988  
ELEMENT SPACING:  
WAVELENGTH

3 ROTATOR ELEMENTS WITH 0 DEGREE BEAM TILT  
0 PERCENT FIRST NULL FILL  
0 PERCENT SECOND NULL FILL

POWER GAIN IS 1.559 IN THE HORIZONTAL PLANE (1.559 IN THE MAX)

FIGURE 1



DEGREES RELATIVE TO HORIZONTAL PLANE

EXHIBIT NO. E-7A

**CALCULATED RADIO FREQUENCY POWER DENSITY  
IN MICROWATTS PER SQUARE CENTIMETER  
BASED ON THE FORMULA IN OST-65**

**COMBINED EFFECTIVE RADIATED POWER 6.0000 KW (H+V POL.)  
LOWEST ANTENNA ELEMENT IS 24 METRES ABOVE GROUND LEVEL**

<b>DISTANCE (METRES)</b>	<b>SLANT RANGE</b>	<b>VERTICAL ANGLE</b>	<b>RELATIVE FIELD</b>	<b>RF POWER DENSITY*</b>	<b>PERCENT R.F.P.G.</b>
0	22	90.0	0.13	7.0	0.70
1	22	87.4	0.16	10.6	1.06
2	22	84.8	0.20	16.4	1.64
3	22	82.2	0.24	23.4	2.34
4	22	79.7	0.28	31.4	3.14
5	23	77.2	0.31	37.8	3.78
6	23	74.7	0.35	47.2	4.72
7	23	72.3	0.38	54.3	5.43
8	23	70.0	0.40	58.5	5.85
9	24	67.8	0.42	62.6	6.26
10	24	65.6	0.44	66.5	6.65
15	27	55.7	0.38	40.8	4.08
20	30	47.7	0.20	9.1	0.91
25	33	41.3	0.13	3.1	0.31
30	37	36.3	0.19	5.2	0.52
35	41	32.2	0.28	8.9	0.89
40	46	28.8	0.29	8.1	0.81
45	50	26.1	0.26	5.4	0.54
50	55	23.7	0.20	2.7	0.27
55	59	21.8	0.13	1.0	0.10
60	64	20.1	0.13	0.8	0.08
70	73	17.4	0.14	0.7	0.07
80	83	15.4	0.27	2.1	0.21
90	93	13.7	0.38	3.4	0.34
100	102	12.4	0.47	4.2	0.42
200	201	6.3	0.85	3.6	0.36
300	301	4.2	0.93	1.9	0.19
400	401	3.1	0.96	1.2	0.12
500	500	2.5	0.97	0.8	0.08

\* POWER DENSITY AT TWO METRES ABOVE GROUND LEVEL

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CLARKSVILLE MD

EXHIBIT NO. E-7 B

**CALCULATED RADIO FREQUENCY POWER DENSITY  
IN MICROWATTS PER SQUARE CENTIMETER  
BASED ON THE FORMULA IN OST-65****COMBINED EFFECTIVE RADIATED POWER 5.6000 KW (H+V POL.)  
LOWEST ANTENNA ELEMENT IS 15 METRES ABOVE GROUND LEVEL**

<b>DISTANCE (METRES)</b>	<b>SLANT RANGE</b>	<b>VERTICAL ANGLE</b>	<b>RELATIVE FIELD</b>	<b>RF POWER DENSITY*</b>	<b>PERCENT R.F.P.G.</b>
0	13	90.0	0.13	18.7	1.87
1	13	85.6	0.19	39.7	3.97
2	13	81.3	0.26	73.1	7.31
3	13	77.0	0.32	107.6	10.76
4	14	72.9	0.37	138.5	13.85
5	14	69.0	0.41	162.1	16.21
6	14	65.2	0.43	168.8	16.88
7	15	61.7	0.44	162.4	16.24
8	15	58.4	0.42	141.6	14.16
9	16	55.3	0.39	113.8	11.38
10	16	52.4	0.33	75.7	7.57
15	20	40.9	0.13	8.0	0.80
20	24	33.0	0.26	22.2	2.22
25	28	27.5	0.28	18.5	1.85
30	33	23.4	0.16	4.5	0.45
35	37	20.4	0.13	2.3	0.23
40	42	18.0	0.13	1.8	0.18
45	47	16.1	0.22	4.1	0.41
50	52	14.6	0.33	7.6	0.76
55	57	13.3	0.42	10.3	1.03
60	61	12.2	0.48	11.4	1.14
70	71	10.5	0.60	13.3	1.33
80	81	9.2	0.68	13.2	1.32
90	91	8.2	0.75	12.7	1.27
100	101	7.4	0.79	11.5	1.15
200	200	3.7	0.93	4.0	0.40
300	300	2.5	0.98	2.0	0.20
400	400	1.9	1.00	1.2	0.12
500	500	1.5	1.00	0.7	0.07

\* POWER DENSITY AT TWO METRES ABOVE GROUND LEVEL