

LAW OFFICES

WILNER & SCHEINER

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DENNIS LANE
PAUL E. LEHNER

PHILIP BERGSON (1913-1965)

CABLE ADDRESS
"WILBERLAW"

RICHARD A. MOORE
COUNSEL

October 26, 1978

Mr. Warren P. Williamson, III
President
WKBN Broadcasting Corporation
3930 Sunset Boulevard
Youngstown, Ohio 44501

Re: WHOT

Dear Bud:

Enclosed is a copy of WHOT's reply to our request that two protective conditions be added to the construction permit authorizing changes in the WHOT facilities. As you will see, WHOT agrees to accept the condition to protect WKBN against cross-modulation or reradiation, but opposes as unnecessary the requested condition which would require installation of an approved antenna monitor and monitoring system.

Let me know if you have any questions.

Sincerely,



John R. Wilner

JRW/dp

Enclosure

cc: Mr. David Steel, Sr. (w/enc.)

LAW OFFICES
MIDLEN & REDDY
2033 M STREET, N.W.
WASHINGTON, D. C. 20036

JOHN H. MIDLEN (1910-1978)
EDWARD B. REDDY
JOHN H. MIDLEN, JR.
DENNIS F. BEGLEY
HARRY C. MARTIN

TELEPHONE
AREA CODE 202
659-5700

RICHARD E. SCHATTMAN
COUNSEL

October 25, 1978

Mr. William J. Tricarico, Secretary
Federal Communications Commission
Washington, D. C. 20554

Re: Station WHOT
Campbell, Ohio
File No. BP-20467

Dear Mr. Tricarico:

On August 28, 1978 the Commission granted the above-styled application of WHOT, Inc. for a construction permit to increase the nighttime power of Station WHOT, Campbell, Ohio to 5 kilowatts and to make changes in its directional antenna system. On October 13, 1978 counsel for WKBN Broadcasting Corporation, licensee of Station WKBN, Youngstown, Ohio, filed a letter requesting two conditions be placed on the construction permit. The requested conditions would require WHOT to (a) install an approved antenna monitor and monitoring system; and (b) assume the responsibility of assuring Station WKBN is not adversely affected due to internal cross-modulation or reradiation from WHOT.


Although the WKBN request constitutes an untimely filed Petition for Reconsideration - having been filed 36 days after public notice of the grant - WHOT wishes to indicate its willingness to accept the second condition requested by WKBN. WHOT has no desire to adversely affect the operation of Station WKBN and if the Commission believes the addition of the requested condition concerning internal cross-modulation or reradiation is necessary to protect WKBN, WHOT is fully prepared to comply with it.

WKBN's request for a condition concerning a type-approved antenna monitor and monitoring system is, however, unnecessary. The Commission's Rules (Sections 73.68 and 73.69) already require WHOT to install a type-approved antenna monitor and approved sampling system. As such, there is no need for the requested condition. Moreover, the installation of such a monitor and sampling system in no way relates to WKBN's basis for the requested conditions (i.e., internal cross-modulation and/or reradiation).

Mr. William J. Tricarico
Page 2
October 25, 1978

Should any questions arise in connection with this matter, please communicate directly with this office.

Very truly yours,


DENNIS F. BEGLEY
Counsel for
WHOT, INC.

cc: John R. Wilner, Esquire

AFFIDAVIT

City of Erie)
)
) SS:
County of Erie)


In the Matter of:

Myron Jones, being first duly sworn upon oath, deposes and says that he has made the field strength measurements contained within this report on Station WKBN, Youngstown, Ohio. He states that these measurements were made under the direction of the Washington, D.C. consulting firm of A. D. Ring and Associates, using appropriately marked maps supplied by that firm.

He states further that the field intensity measurements were made with a Nems-Clarke type 120E Field Intensity Meter, Serial No. 1641. This meter was last calibrated in 1970 at the time the meter was purchased new from the manufacturer. Accuracy of the meter is confirmed periodically by comparison with other similar field strength meters of signal strength readings over its various ranges, and through weekly measurement of monitor point signals of known field intensity.

Myron Jones further states that he has used good engineering practice in the making of the above referenced measurements, and that he has ample experience in the taking of such measurements.

He has, in the course of more than twenty-five years of association with broadcast stations, taken many hundreds of AM field strength measurements, which have been both recognized by the Commission and accepted in several hearing cases before the Commission.



Myron Jones

Subscribed and sworn to before me
this 23rd day of June, 1976.



WILLIAM F. BERCHTOLD, NOTARY PUBLIC
ERIE, ERIE COUNTY, PENNSYLVANIA
MY COMMISSION EXPIRES MAY 29, 1979

Table II

BUSINESS AND FINANCIAL INTERESTS

INSTRUCTIONS: The purpose of Table II is to obtain information concerning the occupation, business, and financial interests, at the present time and during the past 5 years, of the applicant and of each party to this application named in Table I. In column (a) list the names of all individuals or organizations listed in column (a) of Table I. In column (b) state the principal occupations and businesses in which each party named is engaged at the present time or has been engaged at any time during the past 5 years, and, in addition, state any other business or financial enterprise in which such party has now or within the past 5 years has had either a 25% or greater interest or any official relationship. In each case, state in column (b) the firm name, the principal place of business, and the nature of the business engaged in. In case the party has been associated in business with any other person or persons, state the name of each such other person. In column (c) state the extent and nature of the interest, official relationship, employment, or association, giving approximate dates.

(a) Name of party	(b) Firm name, principal place of business, and nature of business	(c) Extent and nature of interest, etc. (giving dates)
Myron Jones	<p>WHOT, Inc., Campbell and Youngstown, Ohio. Commercial broadcasting. Stations WHOT and WSRD(FM)</p> <p>The Jet Broadcasting Co., Inc., Erie, Pennsylvania. Commercial broadcasting. Stations WJET and WJET-TV.</p> <p>Golden Triangle Broadcasting, Inc., Pittsburgh, Pennsylvania. Former licensee of Stations WEEP and WEEP-FM.^{1/}</p> <p>Crawford County Broadcasting Co., Inc., Titusville, Pennsylvania. Commercial broadcasting. Station WTIV</p> <p>Entertainment Realty Corporation. Owner of real estate utilized by WJET, WJET-TV, WHOT and WSRD(FM).</p>	<p>President, Director and 70% own. int. 1958 to date. 100% own. int. 1955 to 1958.</p> <p>President, Director and 63.5% own. int. 1956 to date. 51% own. int. 1953 to 1956. 100% own. int. 1951 to 1953.</p> <p>President, Director and 99.5% own. int. 1959 to date.</p> <p>Vice President, Secretary, Director and 50% own. int. 1958 to date. 33-1/3% own. int. 1955 to 1958.</p> <p>President, Director and 63.5% own. int. 1957 to date.</p>
William Fleckenstein	<p>WHOT, Inc. (supra)</p> <p>The Jet Broadcasting Co., Inc. (supra)</p> <p>Golden Triangle Broadcasting, Inc. (supra)^{1/}</p> <p>^{1/} See Page 4B.</p>	<p>Vice President, Ass't Secretary, Director and 30% own. int. 1958 to date.</p> <p>Vice President, Secretary, Director and 36.5% own. int. 1953 to date.</p> <p>Director and 0.166% own. int. 1959 to date.</p>

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William Fleckenstein (cont'd)	Entertainment Realty Corporation (supra)	Vice President, Director and 36.5% own. int. 1957 to date.
Kathryn Jones	WHOT, Inc. (supra)	Secretary-Treasurer and Director 1958 to date.
	Golden Triangle Broadcasting, Inc. (supra) ^{1/}	Secretary, Director and 0.166% own. int. 1959 to date.
	Crawford County Broadcasting Co., Inc. (supra)	Director 1958 to date.
	^{1/} See Page 4B.	

LEGAL QUALIFICATIONS

Table II

Business and Financial Interests

On May 11, 1977, a Memorandum of Settlement was signed by Golden Triangle Broadcasting, Inc. (Seller) and Joseph M. Field and Radio 1080 Corp. (Buyer) resolving all matters in litigation between the parties and for sale of the physical facilities and assignment of the licenses for Stations WEEP and WEEP-FM from Golden Triangle to Radio 1080 Corp. The application for Commission consent to assignment of the licenses for Stations WEEP and WEEP-FM from Golden Triangle to Radio 1080 Corp. was granted on August 31, 1977 and the assignment was consummated on September 15, 1977 effective at 12:01 a.m. September 16, 1977.

DUPLICATE

6-29-76

JUL 18 1977

BEFORE THE

Federal Communications Commission

WASHINGTON, D.C. 20554

In re Application of)
)
WHOT, INC.,)
)
For Construction Permit)
for Station WHOT,)
Campbell, Ohio)

File No. BP-

AMENDMENT TO APPLICATION

WHOT, Inc., hereby amends the above-styled application in the following respects:

1. Substitute the attached Table II, Section II, Pages 4, 4A and 4B, FCC Form 301, for the relative Table presently on file; and
2. Substitute the attached Section II, Page 5, FCC Form 301, for the relative Page presently on file.

Dated this 3rd day of July, 1977.

WHOT, INC.

By


Myron Jones, President

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William Fleckenstein	<p>Entertainment Realty Corporation. Owner of real estate utilized by above stations other than Station WTIV.</p> <p>WHOT, Inc. (supra)</p> <p>The Jet Broadcasting Co., Inc. (supra)</p> <p>Golden Triangle Broadcasting, Inc. (supra) <u>1/</u></p>	<p>President, Director and 63.5% own. int. 1957 to date.</p> <p>Vice President, Ass't Secretary, Director and 30% own. int. 1958 to date.</p> <p>Vice President, Secretary, Director and 36.5% own. int. 1953 to date.</p> <p>Director and 0.166% own. int. 1959 to date.</p>

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OTHER BROADCAST INTERESTS (See instructions on page 1)

18. Does applicant or any party to this application have now, or has applicant or any such party had, any interest in, or connection with, the following:

(a) Any standard, FM, or television broadcast station?

Yes ☒ No ☐

(b) Any application pending before the Commission?

* Yes ☒ No ☐

(c) Any application which has been denied by the Federal Communications Commission?

** Yes ☒ No ☐

(d) Any broadcast station the license of which has been revoked?

Yes ☐ No ☒

If the answer to any of the foregoing parts of this paragraph is "Yes", show particulars in the table below:

(1) Name of party having such interest	(2) Nature of interest or connection (giving dates)	(3) Call letters of station or file number of application	(4) Location
* WHOT, Inc.	Applicant	WHOT	Campbell, Ohio
** Golden Triangle Broadcasting, Inc.	Applicant	WEPP, File No. 14199 Docket No. 14051 November 4, 1963 <u>1/</u>	Pittsburgh, Pa.
** Myron Jones	Director, Centreville Broadcasting Company August-October 1975 <u>2/</u>	BP-17,564 Docket No. 17564 December 18, 1974 <u>2/</u>	Centreville, Virginia

1/ Application to modify facilities to change city of license to Mt. Oliver, Pennsylvania denied. Mt. Oliver not a separate community for purposes of the 10% Rule (3.28(d)(3)).

2/ During this period applicant was seeking review of Review Board Decision denying application for failure to meet Suburban Issue.

19. Is the applicant or any party to this application controlled, directly or indirectly, by any person who has any interest in or connection with any broadcast station or application of the type referred to in Paragraphs 18(a) to (d)?

Yes ☐ No ☒

If so, submit as Exhibit No. giving full particulars.

20. (a) Are any of the parties to this application related to each other (as husband, wife, father, mother, brother, sister, son or daughter)?

Yes ☒ No ☐

(b) Does any member of the immediate family (i.e., husband, wife, father, mother, brother, sister, son or daughter) of any party to this application have any interest in or connection with any other broadcast station or pending application?

Yes ☒ No ☐

(c) If answer is "Yes" to either (a) or (b) above, state (a) names of the persons, (b) relationship, (c) nature and extent of such interest or connection (d) name of applicant or call letters of station, (e) file number of application, and (f) location of station or proposed station involved.

See Table II. Myron and Kathryn Jones are husband and wife.

OWNERSHIP AND CONTROL OF STATION

21. The Commission is seeking in this paragraph information as to contracts and arrangements now in existence, as well as any arrangements or negotiations, written or oral, which relate to the present or future ownership, control or operation of the station; the questions must be answered in light of this instruction.

(a) Applicant's control over the station is to be by reason of: (Indicate by check mark)

Ownership ☒

Lease ☐

Other authority ☐

(b) Name and address of the owner of the station (if other than the applicant)

None

(c) Will the applicant have and maintain absolute control of the station, its equipment and operation, including complete supervision of the programs to be broadcast?

Yes ☒ No ☐

If "No," explain.

(d) Are there any documents, instruments, contracts or understandings relating to ownership, management, use or control of the station or facilities, or any right or interest therein?

Yes ☐ No ☒

If so, attach as Exhibit No. copies of all such documents, instruments or contracts and state the substance of oral contracts or understandings.

Section I
UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

Application for Authority to Construct a New Broadcast Station or Make Changes in an Existing Broadcast Station

INSTRUCTIONS

- A. This form is to be used in applying for authority to construct a new standard, commercial FM, or television broadcast station or to make changes in existing broadcast stations. This form consists of this part, Section I, and the following sections:
 Section II, Legal Qualifications of Broadcast Applicant
 Section III, Financial Qualifications of Broadcast Applicant
 Section IV-A, Statement of Program Service of Broadcast Applicant (AM-FM)
 Section IV-B, Statement of Program Service of Broadcast Applicant (TV)
 Section V-A, Standard Broadcast Engineering Data
 Section V-B, FM Broadcast Engineering Data
 Section V-C, Television Broadcast Engineering Data
 Section V-G, Antenna and Site Information
 Section VI, Equal Employment Opportunity Program
- B. Prepare three copies of this form and all exhibits. Sign one copy of Sections I, IV-A, and IV-B. Prepare one additional copy (a total of four) of Section V-G and associated exhibits, and one additional copy (a total of four) of Section V-C and associated exhibits. File all the above with Federal Communications Commission, Washington, D. C. 20554. A SEPARATE AND COMPLETE APPLICATION (IN TRIPLICATE) MUST BE FILED FOR EACH AM STATION, EACH FM STATION, AND EACH TV STATION.
- C. Number exhibits serially in the space provided in the body of the form and list each exhibit in the space provided on page 2 of this Section. Show date of preparation of each exhibit, antenna pattern, and map, and show date when each photograph was taken.
- D. The name of the applicant stated in Section I hereof shall be the exact corporate name, if a corporation; if a partnership, the names of all partners and the name under which the partnership does business; if an unincorporated association, the name of an executive officer, his office, and the name of the association. In other Sections of the form the name alone will be sufficient for identification of the applicant.
- E. Information called for by this application which is already on file with the Commission (except that called for in Section III which is more than 90 days old and in Section V-G) need not be refiled in this application provided (1) the information is now on file in another application or FCC Form filed by or on behalf of this applicant; (2) the information is identified FULLY by reference to the file number (if any) the FCC form number, and the filing date of the application or other form containing the information and the page or paragraph referred to, and (3) after making the reference, the applicant states, "No change since date of filing." Any such reference will be considered to incorporate into this application all information, confidential or otherwise, contained in the application or other form referred to. The incorporated application or other form will thereafter, in its entirety, be open to the public. (See Section 1.526 of the Commission's Rules and Regulations, "Records to be maintained locally for public inspection by applicants, permittees, and licensees.")
- F. This application shall be personally signed by the applicant, if the applicant is an individual; by one of the partners, if the applicant is a partnership; by an officer, if the applicant is a corporation; by a member who is an officer, if the applicant is an unincorporated association; by such duly elected or appointed officials as may be competent to do so under the laws of the applicable jurisdiction, the applicant is an eligible government entity; or by the applicant's attorney in case of the applicant's physical disability or of his absence from the United States. The attorney shall, in the event he signs for the applicant, separately set forth the reason why the application is not signed by the applicant. In addition, if any matter is stated on the basis of the attorney's belief only (rather than his knowledge), he shall separately set forth his reasons for believing that such statements are true.
- G. Before filling out this application, the applicant should familiarize himself with the Communications Act of 1934, as amended, Parts 1, 2, 17, and 73 of the Commission's Rules and Regulations.
- H. BE SURE ALL NECESSARY INFORMATION IS FURNISHED AND ALL PARAGRAPHS ARE FULLY ANSWERED. IF ANY PORTIONS OF THE APPLICATION ARE NOT APPLICABLE, SPECIFICALLY SO STATE. DEFECTIVE OR INCOMPLETE APPLICATIONS MAY BE RETURNED WITHOUT CONSIDERATION.

File No.

1. Name of applicant (See Instruction D)

WHOT, INC.

Street Address

401 North Blaine Avenue

City

Youngstown

State

Ohio

2. Name and address of person to whom communications should be sent, if different from item 1

Name

Myron Jones *Midlen & Reddy

Street Address

401 North Blaine Avenue

City

Youngstown

State

Ohio

3(a). Purpose of application (Put "X" in appropriate box)

- ☐ New Station ☒ Major change in existing station facilities.
☐ Minor change in existing station facilities.

(b). If this application is for a change in existing facilities, complete Section I plus any other Sections necessary to show all substantial changes in information previously filed with the Commission and indicate below the Sections completed and filed with this application.

<input checked="" type="checkbox"/>	Section II	<input checked="" type="checkbox"/>	Section V-A
<input checked="" type="checkbox"/>	Section III		Section V-B
<input checked="" type="checkbox"/>	Section IV-A		Section V-C
	Section IV-B	<input checked="" type="checkbox"/>	Section V-G
		<input checked="" type="checkbox"/>	Section VI

4. Requested facilities

Type of station (as Standard, FM, Television)

Standard

Frequency	Call	Channel No.	Power in kilowatts		Minimum total operating time
			Night	Day	
1330 kHz	WHOT	-	5.0	0.5	24 hours

Hours of operation

Unlimited <input checked="" type="checkbox"/>	Sharing with (Specify Stations)	Other (Specify)
Daytime only	None	not apply
Limited		

Station location

City	State
Campbell	Ohio

5. In the space below refer to information already on file with the Commission which, in accordance with Instruction E, may be incorporated in this application by proper reference.

File or Form No. and Date	Section No.	Paragraph No.
BR-3204 BRH-1005 FCC Form 323 June 1, 1976	Sec. IV-A Sec. IV-A Sec. II	

THE APPLICANT hereby waives any claim to the use of any particular frequency or of the ether as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934).

THE APPLICANT represents that this application is not filed for the purpose of impeding, obstructing, or delaying determination on any other application with which it may be in conflict.

THE APPLICANT acknowledges that all the statements made in this application and attached exhibits are considered material representations, and that all the exhibits are a material part hereof and are incorporated herein as if set out in full in the application.

CERTIFICATION

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith.

Signed and dated this 21st day of June, 19 76

(This Section should not be signed and dated until all the following Sections and Exhibits have been prepared and attached.)

INCLUDE FILING FEE WITH THIS APPLICATION. SEE PART 1 OF FCC RULES FOR AMOUNT OF FEE.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT. U. S. CODE, TITLE 18, SECTION 1001.

WHOT, INC.

(NAME OF APPLICANT)

By *Myron Jones*
(SIGNATURE)
MYRÓN JONES

Title President

If applicant is represented by legal or engineering counsel, state name and post office address: Midlen & Reddy, 1990 M St., N.W., Wash., D.C., 20036
Engineering: A. D. Ring & Associates,
1771 N Street, N.W., Washington, D. C. 20036

FCC NOTICE TO INDIVIDUALS REQUIRED BY THE PRIVACY ACT

The solicitation of personal information requested in this application is authorized by the Communications Act of 1934, as amended. The principal purpose(s) for which the information will be used is to determine if the benefit requested is consistent with the public interest.

The staff, consisting variously of attorneys, accountants, engineers, and application examiners, will use the information to determine whether the application should be granted, denied, dismissed, or designated for hearing.

If all the information requested is not provided, the application may be returned without action having been taken upon it or its processing may be delayed while a request is made to provide the missing information. Accordingly, every effort should be made to provide all necessary information.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U. S. C. 552a(e)(3).

EXHIBITS furnished as required by this form:

Exhibit No.	Section and Para. No. of Form	Name of officer or employee (1) by whom or (2) under whose direction exhibit was prepared (show which)	Official title
1	§III, ¶1(b)	Myron Jones (2)	President
2	§III, ¶2(a)	Myron Jones (2)	President
3	§III, ¶2(b)	Myron Jones (2)	President
4	§III, ¶4	Myron Jones (2)	President
5	§IV-A, ¶¶1A & 1C	Myron Jones (2)	President
6	§IV-A, ¶32	Myron Jones (2)	President
7	§V-A	Marvin Blumberg (2)	Consulting Engineer

LEGAL QUALIFICATIONS
OF BROADCAST APPLICANT

Name of Applicant

WHOT, INC.

INSTRUCTIONS

As used in paragraphs 6 to 8 and 18 to 20, both inclusive, of Section II of this form, the words "party to this application" have the following meanings, respectively: In case of an individual applicant, the applicant. In case of a partnership applicant, all partners, including limited and silent partners. In case of a corporate applicant, all officers, directors, stockholders or persons owning the beneficial interest in any stock, subscribers to any stock, and persons who voted at the voting stock at the last stockholders meeting. In case of any other applicant, all executive officers, members of the governing board, and persons or subscribers to any membership or ownership interest in the applicant. (Note: If the applicant considers that to furnish a complete answer to the paragraphs referred to would be an reasonable burden, it may request the Commission for a waiver of the strict terms of this requirement).

1. Applicant is (Check one): An individual ☐ , a general partnership ☐ , a limited partnership ☐ , a corporation ☒ ,
an unincorporated association ☐

2. If applicant is not an individual, give the State, District, Territory or Possession under the laws of which it is organized. Ohio

3. Submit as Exhibit No. three copies (ONE COPY CERTIFIED) each of the Articles and By Laws, if applicant is a corporation or incorporated association, or three copies (ONE COPY SIGNED) of the partnership agreement, if applicant is a partnership. (ARTICLES MUST BE CERTIFIED BY SECRETARY OF STATE OR OTHER PROPERLY DESIGNATED STATE OFFICIAL AND BY LAWS MUST BE CERTIFIED BY APPROPRIATE OFFICIAL OF THE COMPANY) On File. See BAPL-162 granted 6/1/59

4. If applicant is a corporation or an unincorporated association, indicate specifically by reference to page and paragraph of the articles of incorporation or of association, the charter powers relied upon by the applicant to show that it is legally empowered to construct and operate the proposed station. If the articles of incorporation do not specifically authorize kind of business sought to be entered into, submit a statement from Secretary of State or other officer interpreting the language relied upon.

Page 1, Paragraph 3

5. Complete Tables I and II on pages 3 and 4.

CITIZENSHIP AND OTHER STATUTORY REQUIREMENTS (See instructions above)

6. If applicant is an individual, is the applicant a citizen of the United States; or, if applicant is not an individual, are all parties to this application citizens of the United States? Yes ☒ No ☐

If the answer is "No", state the name and citizenship of each person who is not a citizen of the United States.

7. (a) Is applicant or any party to this application a representative of an alien or of a foreign government? Yes ☐ No ☒

(b) If applicant is a corporation, is more than 20 percent of the capital stock owned of record or may it be voted by aliens or their representatives, or by a foreign government or a representative thereof, or by any corporation organized under the laws of a foreign country? Yes ☐ No ☒

(c) If applicant is a corporation and is controlled by another corporation or corporations, is more than 25 percent of the capital stock of such controlling corporation or corporations owned of record or may it be voted by aliens, their representatives, or by any corporation organized under the laws of a foreign country? Yes ☐ No ☒

(d) If the answer to any of the foregoing parts of this paragraph is "Yes", submit as Exhibit No. a full disclosure concerning the persons and matters involved.

8. (a) Has applicant or any party to this application had a station license revoked by order or decree of any Federal court? Yes ☐ No ☒

(b) Has the applicant or any party to this application been found guilty by a Federal court of the violation of the laws of the United States relating to unlawful restraints and monopolies and to combinations, contracts, or agreements in restraint of trade? Yes ☐ No ☒

(c) Has the applicant or any party to this application been finally adjudged guilty by a Federal court of unlawfully monopolizing or attempting unlawfully to monopolize radio communications, directly or indirectly, through the control of the manufacture or sale of radio apparatus, through exclusive traffic arrangements, or by any other means, or to have been using unfair methods of competition? (See Section 313 of the Communications Act of 1934) Yes ☐ No ☒

(d) Has the applicant or any party to this application been found guilty by any court of (1) any felony, (2) any crime, not a felony, involving moral turpitude, (3) the violation of any State, territorial or local law relating to unlawful lotteries, restraints and monopolies and combinations, contracts or agreements in restraint of trade, or (4) using unfair methods of competition? Yes ☐ No ☒

(e) Is there now pending in any court or administrative body against the applicant or any party to this application any action involving any of the matters referred to in Paragraphs 8a, b, c, and d above? Yes ☐ No ☒

(f) Have voluntary proceedings in bankruptcy been instituted by, or have involuntary proceedings in bankruptcy ever been brought against applicant or any party to this application? Yes ☐ No ☒

(g) Are there outstanding any unsatisfied judgments or decrees against applicant or any party to this application? Yes ☐ No ☒

(h) If the answer to any of the foregoing parts of this paragraph is "Yes", submit as Exhibit No. a full disclosure concerning the persons and matters involved, identifying the court and the proceeding (by dates and file numbers), stating the facts upon which the proceeding was based or the nature of the offense committed, and the disposition of the matter.

9. Is the proposed facility to be located on land under the jurisdiction of the U. S. Forest Service or the Bureau of Land Management? Yes ☐ No: ☒
 If the answer is "Yes", comply with Section 1.70 of the Commission's rules before submitting this application.

CORPORATE APPLICANT

INSTRUCTION: If applicant is a corporation, answer paragraphs 10 to 15, inclusive.

10. Stock of corporation

(a) Class of stock	(b) Par value	(c) Vote per share	(d) No. shares authorized	(e) No. shares issued	(f) No. shares subscribed	(g) Total number of stockholders
Common	\$1.00	1	250	250	-	2

11. At the last meeting of stockholders were any shares of stock voted by proxy? Yes ☐ No: ☒

If so, state

Class of stock	No. of shares	Meeting date	No. voted by stockholders in person	No. voted by proxy	Name of each proxy voting 1 percent or more of each class

12. In connection with the stockholders and stock subscribers named in Table I to this form, is the beneficial owner of the stock a person other than the owner of record or subscriber? Yes ☐ No: ☒

If so, submit as Exhibit No. _____ a statement of (a) the name of the owner of record, or subscriber, (b) the name of the beneficial owner, (c) the conditions under which the owner or subscriber holds any votes or has subscribed for such stock, and (d) a copy of any contract or other instrument relating to such conditions.

13. Has applicant any other obligations or securities authorized or outstanding which bear voting rights either absolutely or upon any contingency? Yes ☐ No: ☒

If so, submit as Exhibit No. _____ a statement of (a) the nature of such securities, (b) the face value or par value, (c) the number of units authorized, (d) the number of units issued and outstanding, (e) the number of units, if any, proposed to be issued, (f) the conditions or contingency upon which such securities may be voted, and (g) facts showing whether or not such securities have been voted or entitled to be voted in the past 5 years and at the present time.

14. a. Is applicant corporation, directly or indirectly, controlled by another corporation or legal entity? Yes ☐ No: ☒

b. Is 10 percent or more of the stock of applicant corporation owned by another corporation or legal entity? Yes ☐ No: ☒

c. If the answer to any of the foregoing parts of this paragraph is "Yes", state below the name of such other corporation or legal entity, and submit as Exhibit No. _____ (a) a statement of how such control, if any, exists and the extent thereof, and (b) with respect to such other corporation or legal entity, a statement answering paragraphs 10 to 14, inclusive and the information requested in Tables I and II of this section.

15. Is the corporation or legal entity named in paragraph 14 in turn a subsidiary? Does not apply Yes ☐ No: ☐

If so, state below the name of such other parent corporation or legal entity, and submit as Exhibit No. _____ a statement for each such corporation or legal entity answering paragraphs 10 to 14 and the information requested in Tables I and II of this section, to and including the organization having final control.

UNINCORPORATED ASSOCIATION (OR OTHER LEGAL ENTITY) Does not apply

INSTRUCTION: If applicant is an unincorporated association or a legal entity other than an individual, partnership or corporation, answer paragraphs 16 and 17.

16. State the nature of the applicant, cite the laws under which organized, and submit as Exhibit No. _____ a copy of the laws.

17. State the total number of members or persons holding any ownership interest in the applicant.

Table 1

INSTRUCTIONS: If applicant is an individual, fill out columns (a) and (b) stating (a) applicant's name and residence (home) address or addresses, and (b) applicant's date and place of birth. If applicant is a partnership, fill out columns (a), (b), (c) and (d), stating as to each general or limited partner (including silent partners): (a) name and residence (home) address or addresses, (b) date and place of birth, (c) nature of partnership interest (i.e. general or limited), and (d) percent of ownership interest. If applicant is a corporation or an unincorporated association, fill out all columns, giving the information requested as to all officers, directors and members of the governing board. In addition, give the information as to all stockholders, stock subscribers, holders of membership certificates or other ownership interests, unless the applicant has more than 20 stockholders, stock subscribers or holders of membership certificates or other ownership interests, in which case furnish the information as to all persons owning 3 percent or more of the capital stock, membership or ownership interest, and all persons who voted 3 percent or more of such stock or interest at the last meeting of stockholders, members or owners. If applicant is a corporation or unincorporated association, state in column (d) the percent of voting stock or voting interest held, (d) whether or not the individual is a director or member of the governing board (Yes or No), (e) the number of shares of stock of all classes or membership interests held, and (f) the number of shares of stock of all classes or membership interests subscribed for.

NAME AND RESIDENCE (home) ADDRESS(es) (a)	DATE AND PLACE OF BIRTH (b)	NATURE OF PARTNERSHIP INTEREST OR OFFICE HELD (c)	DIRECTOR OR MEMBER OF GOVERNING BOARD (Yes or No) (d)	NO. SHARES OF EACH CLASS OF STOCK OR NO. MEMBERSHIP OR OWNERSHIP INTERESTS		PERCENT OF OWNERSHIP OF PARTNERSHIP OR PERCENT OF VOTING STOCK OR MEMBERSHIP (e)
				Now held (e)	Subscribed (f)	
Myron Jones 335 California Drive Erie, Pennsylvania	November 27, 1925 Youngstown, Ohio	President	Yes	175	0	70%
William Fleckenstein 39 Viola Avenue Hubbard, Ohio	February 25, 1923 Reynoldsville, Pa.	Vice President Asst. Secretary	Yes	75	0	30%
Kathryn Jones 335 California Drive Erie, Pennsylvania	December 19, 1925 Erie, Pennsylvania	Secretary- Treasurer	Yes	0	0	0

Table II

BUSINESS AND FINANCIAL INTERESTS

INSTRUCTIONS: The purpose of Table II is to obtain information concerning the occupation, business, and financial interests, at the present time and during the past 5 years, of the applicant and of each party to this application named in Table I. In column (a) list the names of all individuals or organizations listed in column (a) of Table I. In column (b) state the principal occupations and businesses in which each party named is engaged at the present time or has been engaged at any time during the past 5 years, and, in addition, state any other business or financial enterprise in which such party has now or within the past 5 years has had either a 25% or greater interest or any official relationship. In each case, state in column (b) the firm name, the principal place of business, and the nature of the business engaged in. In case the party has been associated in business with any other person or persons, state the name of each such other person. In column (c) state the extent and nature of the interest, official relationship, employment, or association, giving approximate dates.

(a) Name of party	(b) Firm name, principal place of business, and nature of business	(c) Extent and nature of interest, etc. (giving dates)
Myron Jones	<p>WHOT, Inc., Campbell and Youngstown, Ohio. Commercial Broadcasting. Stations WHOT and WHOT-FM</p> <p>The Jet Broadcasting Co., Inc., Erie, Pennsylvania. Commercial Broadcasting. Stations WJET and WJET-TV.</p> <p>Golden Triangle Broadcasting, Inc., Pittsburgh, Pennsylvania. Commercial Broadcasting. Stations WEEP and WEEP-FM</p> <p>Crawford County Broadcasting Co., Inc., Titusville, Pennsylvania. Commercial Broadcasting. Station WTIV.</p> <p>Entertainment Realty Corporation. Owner of real estate utilized by above stations other than Station WTIV.</p>	<p>President, Director and 70% own. int. 1958 to date. 100% own. 1955 to 1958</p> <p>President, Director and 63.5% own. int. 1956 to date. 51% own. int. 1953 to 1956. 100% own. int. 1951 to 1953.</p> <p>President, Director and 99.5% own. int. 1959 to date.</p> <p>Vice President, Secretary, Director and 50% own. int. 1958 to date. 33-1/3% own. int. 1955 to 1958.</p> <p>President, Director and 63.5% own. int. 1957 to date.</p>
William Fleckenstein	<p>WHOT, Inc. (supra)</p> <p>The Jet Broadcasting Co., Inc. (supra)</p>	<p>Vice President, Ass't Secretary, Director and 30% own. int. 1958 to date.</p> <p>Vice President, Secretary, Director and 36.5% own. int. 1953 to date.</p>

Table II

BUSINESS AND FINANCIAL INTERESTS

INSTRUCTIONS: The purpose of Table II is to obtain information concerning the occupation, business, and financial interests, at the present time and during the past 5 years, of the applicant and of each party to this application named in Table I. In column (a) list the names of all individuals or organizations listed in column (a) of Table I. In column (b) state the principal occupations and businesses in which each party named is engaged at the present time or has been engaged at any time during the past 5 years, and, in addition, state any other business or financial enterprise in which such party has now or within the past 5 years has had either a 25% or greater interest or any official relationship. In each case, state in column (b) the firm name, the principal place of business, and the nature of the business engaged in. In case the party has been associated in business with any other person or persons, state the name of each such other person. In column (c) state the extent and nature of the interest, official relationship, employment, or association, giving approximate dates.

(a) Name of party	(b) Firm name, principal place of business, and nature of business	(c) Extent and nature of interest, etc. (giving dates)
William Fleckenstein (cont'd)	Golden Triangle Broadcasting, Inc. (supra) Entertainment Realty Corporation (supra)	Director and 0.166% own. int. 1959 to date. Vice President, Director and 36.5% own. int. 1957 to date.
Kathryn Jones	WHOT, Inc. (supra) Golden Triangle Broadcasting, Inc. (supra) Crawford County Broadcasting Co., Inc. (supra)	Secretary-Treasurer and Director 1958 to date. Secretary, Director and 0.166% own. int. 1959 to date. Director 1958 to date.

OTHER BROADCAST INTERESTS (See instructions on page 1)

18. Does applicant or any party to this application have now, or has applicant or any such party had, any interest in, or connection with, the following:

(a) Any standard, FM, or television broadcast station? See Table II

Yes ☒ No ☐

(b) Any application pending before the Commission?

*Yes ☒ No ☐

(c) Any application which has been denied by the Federal Communications Commission?

**Yes ☒ No ☐

(d) Any broadcast station the license of which has been revoked?

Yes ☐ No ☒

If the answer to any of the foregoing parts of this paragraph is "Yes", show particulars in the table below:

(1) Name of party having such interest	(2) Nature of interest or connection (giving dates)	(3) Call letters of station or file number of application	(4) Location
* WHOT, Inc.	Licensee	WHOT (BR-3024)	Campbell, Ohio
** Golden Triangle Broadcasting, Inc.	Applicant	WHOT-FM (BRH-1005)	Youngstown, Ohio
•• Myron Jones	Director, Centreville Broadcasting Company	WEEP, File No. 14199 Docket No. 14051 November 4, 1963 ^{1/} BP-17,564 Docket No. 17564 August-October 1975 ^{2/} December 18, 1974 ^{2/}	Pittsburgh, Pa. Centreville, Virginia
^{1/} Application to modify facilities to change city of license to Mt. Oliver, Pennsylvania denied. Mt. Oliver not a separate community for purposes of the 10% Rule (3.28(d)(3)). ^{2/} During this period applicant was seeking review of Review Board Decision denying application for failure to meet Suburban Issue.			

19. Is the applicant or any party to this application controlled, directly or indirectly, by any person who has any interest in or connection with any broadcast station or application of the type referred to in Paragraphs 18(a) to (d)?

Yes ☐ No ☒

If so, submit as Exhibit No. giving full particulars.

20. (a) Are any of the parties to this application related to each other (as husband, wife, father, mother, brother, sister, son or daughter)?

Yes ☒ No ☐

(b) Does any member of the immediate family (i.e., husband, wife, father, mother, brother, sister, son or daughter) of any party to this application have any interest in or connection with any other broadcast station or pending application?

Yes ☒ No ☐

(c) If answer is "Yes" to either (a) or (b) above, state (a) names of the persons, (b) relationship, (c) nature and extent of each interest or connection (d) name of applicant or call letters of station, (e) file number of application, and (f) location of station or proposed station involved.

See Table II. Myron and Kathryn Jones are husband and wife.

OWNERSHIP AND CONTROL OF STATION

21. The Commission is seeking in this paragraph information as to contracts and arrangements now in existence, as well as any arrangements or negotiations, written or oral, which relate to the present or future ownership, control or operation of the station; the questions must be answered in light of this instruction.

(a) Applicant's control over the station is to be by reason of: (Indicate by check mark)

Ownership ☒

Lease ☐

Other authority ☐

(b) Name and address of the owner of the station (if other than the applicant)

None

(c) Will the applicant have and maintain absolute control of the station, its equipment and operation, including complete supervision of the programs to be broadcast?
If "No," explain.

Yes ☒ No ☐

22. Are there any documents, instruments, contracts or understandings relating to ownership, control or operation of the station or facilities, or any right or interest therein?
If so, submit as Exhibit No. copies of all such documents, instruments or contracts and the substance of oral contracts or understandings.

Yes ☐ No ☒

FINANCIAL QUALIFICATIONS
OF BROADCAST APPLICANT

NAME OF APPLICANT

WHOT, INC.

The Commission is seeking in the questions that follow information as to contracts and arrangements now in existence, as well as any arrangements or negotiations, written or oral, which relate to the present or future financing of the station; the questions must be answered in the light of this instruction.

IF CONTEMPLATED EXPENDITURES ARE LESS THAN \$5,000 COMPLETE PARAGRAPH 1 OF SECTION II ONLY.

1. a. Give estimated initial costs of making installation for which application is made. If performed under a contract for the completed work, the facts as to such contract must be stated in lieu of estimates as to the several items. In any event, the cost shown must be the costs in place and ready for service, including the amounts for labor, supervision, materials, supplies and freight. Cost items such as professional fees, mobile and field equipment, non-technical studio furnishings, etc., should be included under "Other Items" below, and itemized.

	COLUMN I (USE ONLY WHEN ITEMIZING)	COLUMN II (TOTAL)
<u>Antenna System:</u> (Including antenna, antenna tower, transmission line, phasing equipment, ground system, coupling equipment and tower lighting.)	\$	\$ <u>66,500.00</u>
<u>RF Generating Equipment:</u> (Including transmitter, tubes, filters, diplexer, remote control equipment, and automatic logger.)		<u>28,000.00</u>
<u>Monitoring and Test Equipment:</u> (Including frequency monitor, phase monitor, modulation monitor, oscilloscope, dummy load, vectorscope, video monitors.)		<u>On Hand</u>
<u>Program Origination Equipment:</u> (Including control consoles, film chains, cameras, audio tape equipment, video tape equipment, program and distribution amplifiers, limiters, and transcription equipment.)		<u>On Hand</u>
<u>Acquiring Land:</u> Annual lease for additional land		<u>500.00</u>
<u>Acquiring, Remodeling or Constructing Buildings:</u>		<u>On Hand</u>
<u>Other Items:</u> (Itemize Below)		
Legal Costs:	<u>2,000.00</u>	
Engineering Costs:	<u>15,000.00</u>	
Installation Costs:	<u>3,000.00</u>	
Other Miscellaneous:	<u>1,000.00</u>	
<u>Total Other Items:</u>		<u>21,000.00</u>
<u>Total Construction Costs:</u> Additional		<u>116,500.00</u>
<u>Add/Estimated Cost of Operation for First Year:</u>		<u>2,500.00</u>
<u>Total First Year Costs To Be Met By Applicant:</u>		<u>119,000.00</u>
<u>Estimated Revenues For First Year:</u>		

Item 1 (continued):

b. State the basis of the estimates in (a), Page 1, Section III, including (in the case of an application for a new broadcast station) complete itemization of cost of operation for the first year, including cost of proposed programming, as Exhibit No. 1 to this application.

c. The proposed construction is to be financed and paid for in the following manner. The financial plan should provide for sufficient funds to construct the station and operate it for a period of one year. If the applicant plans to rely on revenues from operation of the proposed station for any portion of operating expenses, supply as Exhibit No. _____ data in support of revenue estimate.

	COLUMN I (USE ONLY FOR LOANS AND DEFERRED CREDIT)	COLUMN II (NET TOTAL)
Existing Capital:	\$	\$ 10,598.00
New Capital:		
Loans from Banks or Others:		
(Less repayments of principal and interest at _____% due during first year):		
Net Total Available from Loans:		
Profits from Existing Operations:		
Donations:		
Other Sources: (Specify) Accounts Receivable. 75% of \$119,528.34 certified aged and collectible within 90 days		89,646.25
Deferred Credit from Equipment Supplier:	95,000.00	
(Note: If 1st payment is due upon shipment, include 14 monthly payments. If due in 30 days, 13 monthly payments. If due in 60 days, 12 monthly payments, etc.)		
(a) Less: Down Payment <u>25</u> %	23,750.00	
(b) Less: 1st Year Payment to Principal	14,830.00	
(c) Less: 1st Year Interest <u>8-1/2</u> %	6,229.00	
Net Deferred Credit Available:		50,191.00
Net Total Available:		150,435.25

2. a. Attach as Exhibit No. 2 a detailed balance sheet of applicant as at the close of a month within 90 days of the date of the application showing applicant's financial position. If the status and composition of any assets and liabilities on the balance sheet are not clearly defined by their respective titles, attach as Exhibit No. _____ schedules which give a complete analysis of such items.

b. Attach as Exhibit No. 3 a statement showing the yearly net income, after Federal income tax, for each of the past 2 years received by applicant from any source.

3. Furnish the following information with respect to the applicant only. If the answer is "None" to any or all items, specifically so state:

a. Amount of funds on deposit in bank or other depository:

\$ See Exhibit No. 2

b. Name and address of the bank in which deposited (Include ZIP Code) Security Peoples Trust Company
Erie, Pennsylvania 16502

c. Name and address of the party in whose name the money is deposited (Include ZIP Code)

WHOT, Inc.

d. Conditions of deposit (in trust, savings, subject to check, on time deposit, who may draw on account and for what purpose, or other condition). Checking account. Subject to withdrawal by President of WHOT, Inc.

e. Are the funds deposited for the specific purpose of constructing and operating the station? ☐ Yes ☒ No

If "No," explain. Although funds were not deposited for the specific purpose of this application, they are available if needed for this purpose.

FUNDS, PROPERTY, ETC., TO BE FURNISHED BY PARTIES CONNECTED WITH APPLICANT OR BY OTHERS

4. Submit as Exhibit No. 4 a statement setting forth the full name and address of each person (whether or not connected with applicant, but including partners, shareholders, or subscribers to capital stock of the applicant) who has furnished or will furnish funds, property, service, credit, loans, donations, assurances, or other things of value, or will assist in any other manner in financing station. For each person (other than financial institutions or equipment manufacturers) who has furnished or will furnish one percent or more of the total of things of value, excluding loans from financial institutions and equipment credit, supply the additional information requested in a. to d. below. For financial institutions or equipment manufacturers, supply the additional information requested in e. below. ("Furnish" or "furnished" as herein used includes payments for capital stock or other securities, loans and other credits, gifts and any other contributions.)

- a. For each person who has agreed to furnish funds, purchase stock, extend credit, or guarantee loans, submit a copy of the agreement by which each person is so obligated, showing the amount, rate of interest, terms of repayment, and security, if any. If no security is required, so state.
- b. For each person (except financial institutions) who has agreed to furnish funds or purchase stock, but who has not already done so, submit a balance sheet or, in lieu thereof, a financial statement showing all liabilities and containing current and liquid assets sufficient in amount to meet current liabilities (including amounts payable during the next year on long term liabilities) and, in addition, to indicate financial ability to comply with the terms of the agreement. The balance sheets submitted should segregate receivables and payables to show the amounts due within one year and those due after one year. The term and liquid assets refers to items such as cash, or loan value of insurance, government bonds and publicly traded securities (provided, however, that such securities must be identified by the type of security, name of issuer and the name of the market or exchange on which traded, at their current market value), or other assets which may be readily used or converted to provide funds to meet the proposed commitments. Current assets such as accounts receivable which result from normal operation of a business, inventory, etc., are not considered as a readily available source of funds without a specific showing that such assets can be relied upon to provide funds to meet proposed commitments. However, if accounts receivable have been "aged" and certified collectible within 90 days by a professional accountant, three-fourths (3/4) of such accounts receivable will be treated as "liquid." If a balance sheet or a financial statement does not clearly indicate liquid and current assets sufficient in amount to meet current liabilities and in addition, sufficient liquid assets to meet the proposed commitments, it should be supplemented by a statement showing the manner in which non-liquid assets will provide such funds. When the applicant relies upon "non-liquid assets," a statement must be submitted showing the extent to which such assets have liens or prior obligations against them. All balance sheets, or financial statements submitted in accordance with this section must be dated. In any event, a mere statement of total assets and total liabilities, or a statement of net worth, is not acceptable under the terms of this section.
- c. Net income after Federal income tax, received for the past two years by each person who will furnish funds, property, service, credit, loans, donations, assurances, or other things of value. (A statement that income tax for the required periods was in excess of a certain specified amount will be sufficient.)
- d. If applicant or any person named in the exhibit has pledged, hypothecated or otherwise encumbered any stocks or other securities for the purpose of providing applicant with funds for construction of the station herein requested, submit a statement explaining each such transaction.
- e. For financial institutions or equipment manufacturers who have agreed to make a loan or extend credit, submit a copy of the document by which the institution or manufacturer has indicated its willingness to provide such loan or credit, showing the amount of loan or credit, terms of payment or repayment of loan, collateral or security required, and rate of interest to be charged. If there are any special requirements such as a moratorium on principal or interest, or a waiver of collateral, etc., it must be shown on the document of credit. In the event such document requires special endorsements or guarantees, a statement from the party or parties required to provide such endorsement or guarantee must be submitted with the document as supporting evidence of their willingness to so provide.

STATEMENT OF AM OR FM PROGRAM SERVICE (See instructions, Sec. IV-A, pages 7 and 8.)	Name of Applicant WHOT, INC.
Call letters of station WHOT	City and state which station is licensed to serve Campbell, Ohio

PART I See BR-3204 and BRH-1005
 Filed June 1, 1976

Ascertainment of Community Needs

1. A. State in Exhibit No. 5 the methods used by the applicant to ascertain the needs and interests of the public served by the station. Such information shall include (1) identification of representative groups, interests and organizations which were consulted and (2) the major communities or areas which applicant principally undertakes to serve.
- B. Describe in Exhibit No. 5 the significant needs and interests of the public which the applicant believes his station will serve during the coming license period, including those with respect to national and international matters.
- C. List in Exhibit No. 5 typical and illustrative programs or program series (excluding Entertainment and News) that applicant plans to broadcast during the coming license period to meet those needs and interests.

NOTE: Sufficient records shall be kept on file at the station, open for inspection by the Commission, for a period of 3 years from the date of filing of this statement (unless requested to be kept longer by the Commission) to support the representations required in answer to Question 1. These records should not be submitted with this application and need not be available for public inspection.

PART II Does not apply

Post Programming

2. A. State the total hours of operation during the composite week: _____
- B. Attach as Exhibit No. _____ one exact copy of the program logs for the composite week used as a basis for responding to questions herein. Applicants utilizing automatic program logging devices must comply with the provisions of Sections 73.112(c) and 73.282(c). Automatic recordings will be returned to the applicant. Exact copies will not be returned.

If applicant has not operated during all of the days of the composite week which would be applicable to the use of this form, applicant should so notify the Commission and request the designation of substitute day or days as required.

3. A. State the amount of time (rounded to the nearest minute) the applicant devoted in the composite week to the program types (see Definitions) listed below. Commercial matter within a program segment shall be excluded in computing time devoted to that particular program segment (e.g., a 15-minute news program containing 3 minutes' commercial matter shall be counted as a 12-minute news program).

	<u>Hours</u>	<u>Minutes</u>	<u>% of Total Time on Air</u>
(1) News %
(2) Public Affairs %
(3) All other programs, exclusive of Entertainment and Sports %

- B. If in the applicant's judgment the composite week does not adequately represent the station's past programming, applicant may in addition provide in Exhibit No. _____ the same information as required in 3-A above (using the same format for a calendar month or longer during the year preceding the filing of this application. Applicant shall identify the time period used. Applicant need not file the program logs used in responding to this question unless requested by the Commission.

4. List in Exhibit No. _____ typical and illustrative programs or program series (excluding Entertainment and News) broadcast during the year preceding the filing of this application which have served public needs and interests in applicant's judgment. Denote, by underlining the Title, those programs, if any, designed to inform the public on local, national or international problems of greatest public importance in the community served by the applicant. Use the format below.

<u>Title</u>	<u>Source*</u>	<u>Type*</u>	<u>Brief Description</u>	<u>Time Broadcast & Duration</u>	<u>How Often Broadcast</u>
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5. Submit in Exhibit No. _____ the following information concerning the applicant's news programs:
 - A. The staff, news gathering facilities, news services and other sources utilized; and
 - B. An estimate of the percentage of news program time devoted to local and regional news during the composite week.
6. In connection with the applicant's public affairs programming, describe its policy during the past renewal period with respect to making time available for the discussion of public issues and the method of selecting subjects and participants.

*See Definitions Section IV-A, Page 7

7. Describe briefly the applicant's program format(s) during the past 12 months (e.g., country and western music, talk, folk music, classical music, foreign language, jazz, standard pops, etc.) and the approximate percentage of time per week devoted to such format(s).
8. State how and to what extent (if any) applicant's station contributed during the past license period to the over-all diversity of program services available in the area or communities served.
9. Was the applicant affiliated with one or more national, regional or special radio networks during the past license period?
Yes _____ No _____. If "yes," give name(s) of network(s): _____
10. State the number of public service announcements broadcast by the applicant during the composite week: _____
11. A. If this application is for an FM station, did the programming duplicate that of any AM station?
Yes _____ No _____. ("Duplicate" means simultaneous broadcasting of a particular program over both the AM and FM stations or the broadcast of a particular FM program within 24 hours before or after the identical program is broadcast over the AM station—Section 73.242(a) of the Rules and Regulations.)
B. If the answer is "yes," identify the AM station by call letters; describe its relation to the FM station; and state the number of hours each day in the composite week that were duplicated.
12. A. In applicant's judgment, does the information supplied in this Part II adequately reflect its past programming?
Yes _____ No _____.
B. If "no," applicant may attach as Exhibit No. _____ such additional information as may be necessary to describe accurately and present fairly its program service.
C. If applicant's programming practices for the period covered by this statement varied substantially from the programming representations made in applicant's last renewal application, the applicant shall submit as Exhibit No. _____ a statement explaining the variations and the reasons therefor.

PART III See BR-3204 and BRH-1005

Filed June 1, 1976

Proposed Programming

13. State the proposed total hours of operation during a typical week: _____
14. State the minimum amount of time the applicant proposes to devote normally each week to the program types (see Definitions) listed below. Commercial matter within a program segment shall be excluded in computing time devoted to that particular program segment (e.g., a fifteen-minute news program containing 3 minutes' commercial matter shall be computed as a 12-minute news program.)

	<u>Hours</u>	<u>Minutes</u>	<u>% of Total Time on Air</u>
(1) News..... %
(2) Public Affairs %
(3) All other programs, exclusive of Entertainment and Sports..... %

15. Submit in Exhibit No. _____ the following information concerning the applicant's proposed news programs:
- A. The staff, news gathering facilities, news services and other sources to be utilized; and
- B. An estimate of the percentage of news program time to be devoted to local and regional news during a typical week.

16. In connection with the applicant's proposed public affairs programming describe its policy with respect to making time available for the discussion of public issues and the method of selecting subjects and participants.
17. Describe the applicant's proposed programming format(s), e.g., country and western music, talk, folk music, classical music, foreign language, jazz, standard pops, etc., and the approximate percentage of time per week to be devoted to each format(s).
18. State how and to what extent (if any) applicant proposes to contribute to the over-all diversity of program services available in the area or communities to be served.
19. State the minimum number of public service announcements applicant proposes to present during a typical week: _____
20. Will the applicant be affiliated with one or more national, regional, or special radio networks? Yes _____ No _____
If "yes," give name(s) of network(s): _____
21. A. If this application is for an FM station will the programming duplicate that of any AM station? Yes _____ No _____
("Duplicate" means simultaneous broadcasting of a particular program over both AM and FM stations or the broadcast of a particular FM program within 24 hours before or after the identical program is broadcast over the AM station—Section 73.242(a) of the Rules and Regulations.)
- B. If the answer is "yes," identify the AM station by call letters; describe its relation to the FM station; and state the number of hours each day proposed to be duplicated.

PART IV Does not apply

Post Commercial Practices

22. Give the following information with respect to the composite week:

	<u>All Hours</u>	<u>6 A.M. - 6 P.M.</u>
A. Total broadcast time
B. Time devoted to commercial matter:		
(1) Amount in hours and minutes
(2) Percentage % %

23. State the number of 60-minute segments of the composite week (beginning with the first full clock hour and ending with the last clock hour of each broadcast day) containing the following amounts of commercial matter:
- A. Up to and including 10 minutes
 - B. Over 10 and up to and including 14 minutes
 - C. Over 14 and up to and including 18 minutes
 - D. Over 18 minutes

List each segment in category (D) above, specifying the amount of commercial time in the segment, and the day and time broadcast.

24. A. In the applicant's judgment, does the information supplied in this Part IV for the composite week adequately reflect its commercial practices? Yes _____ No _____.
- B. If "no," applicant may attach as Exhibit No. _____ such additional material as may be necessary to describe adequately and present fairly its commercial practices.
- C. If applicant's commercial practices for the period covered by this statement varied substantially from the commercial representations made in applicant's last renewal application, the applicant shall submit as Exhibit No. _____ a statement explaining the variations and the reasons therefor.

PART V

See BR-3204 and BRH-1005

Proposed Commercial Practices

Filed June 1, 1976

25. State the maximum percentage of commercial matter which the applicant proposes normally to allow during the following segments of a typical week:

6 a.m. - 6 p.m. %

All hours %

If applicant proposes to permit this level to be exceeded at times, state under what circumstances and how often this is expected to occur, and the limits that would then apply.

26. What is the maximum amount of commercial matter in any 60-minute segment which the applicant proposes normally to allow?

If applicant proposes to permit this amount to be exceeded at times, state under what circumstances and how often this is expected to occur, and the limits that would then apply.

PART VI See BR-3204 and BRH-1005

Filed June 1, 1976

General Station Policies and Procedures

27. State the name(s) and position of the person(s) who determines the day-to-day programming, makes decisions, and directs the operation of the station covered by this application and whether he is employed full-time in the operation of the station.

28. A. Does the applicant have established policies with respect to programming and advertising standards (whether developed by the station or contained in a code of broadcasting standards and practices) to guide the operation of the station?
Yes _____ No _____.
- B. If "yes," attach as Exhibit No. _____ a brief summary of such policies. (If the station relies exclusively upon the published code of any national organization or trade association, a statement to that effect will suffice)
29. State the methods by which applicant undertakes to keep informed of the requirements of the Communications Act and the Commission's Rules and Regulations, and a description of the procedures established to acquaint applicant's employees and agents with such requirements and to ensure their compliance.

30. If, as an integral part of its station identification announcements, applicant makes or proposes to make reference to any business, profession or activity other than broadcasting in which applicant or any affiliate or stockholder is engaged or financially interested, directly or indirectly, set forth typical examples and approximate frequency of their use.

31. State the number of station employees: _____. If the station has or proposes to have ten or more employees, state in Exhibit No. _____ the number of full-time and part-time employees in the programming, sales, technical, and general and administrative departments. Do not list the same employee in more than one category. However, if an employee performs multiple services, this may be so shown by identifying him with his various duties e.g., if two employees are combination announcers and salesmen, the list would include an entry of "two programming-sales".

PART VII

Other Matters and Certification

32. Applicant may submit as Exhibit No. 6 any additional information which, in its judgment, is necessary adequately to describe or to present fairly its services and operations in relation to the public interest.
33. The undersigned has familiarized himself with paragraph 7 of the Instructions on page 7 of Section IV-A concerning signature requirements and in light of its provisions does hereby:
- Acknowledge that all the statements made in this Section IV-A and the attached exhibits are considered material representations and that all the exhibits are a material part hereof and are incorporated herein as if set out in full in the application form; and
 - Certify that the statements herein are true, complete, and correct to the best of his knowledge and belief and are made in good faith.

SIGNED AND DATED this 25th day of June, 19 76.

WHOT, INC.

(NAME OF APPLICANT)

By:

(SIGNATURE)

MYRON JONES

(PLEASE PRINT NAME OF PERSON SIGNING)

President

(TITLE)

WILLFUL FALSE STATEMENTS MADE IN THIS FORM ARE PUNISHABLE BY FINE AND IMPRISONMENT. U. S. CODE, TITLE 18, SECTION 1001.

EQUAL EMPLOYMENT OPPORTUNITY PROGRAM	Name of Applicant WHOT, INC.
Call letters of station WHOT	City and state which station is licensed to serve Campbell, Ohio

Applicants for construction permit for a new facility, for assignment of license or construction permit or for transfer or control (other than *pro forma* or involuntary assignments and transfers), and applicants for renewal of license who have not previously done so, file equal employment opportunity programs or amendments to those programs in the following categories: Existing licensees and permittees at the time of the effective date of this form are not required to file an equal employment opportunity program until filing for renewal of license.

PART I See BR-3204 Filed June 1, 1976

Submit as Exhibit No. _____ the applicant's equal employment opportunity program for the station, and its network operation if the applicant operates a network, indicating specific practices to be followed in order to assure equal employment opportunity for Negroes, Orientals, American Indians, Spanish Surnamed Americans, and women in each of the following aspects of employment practice: recruitment, selection, training, placement, promotion, pay, working conditions, termination, layoff, and termination. The program should reasonably address itself to such specific practices as the station is to the extent they are appropriate in terms of station size, location, etc. A program need not be filed if the station has less than five fulltime employees or with respect to any minority group which is represented in the area in such insignificant numbers that a program would not be meaningful. In the latter situation, a statement of explanation should be filed.

1. To assure nondiscrimination in recruiting:

- a. Posting notices in station employment offices informing applicants of their equal employment rights and their right to notify the Federal Communications Commission or other appropriate agency if they believe they have been the victim of discrimination.
- b. Placing a notice in bold type on the employment application informing prospective employees that discrimination because of race, color, religion, national origin, or sex, is prohibited and that they may notify the Federal Communications Commission or other appropriate agency if they believe they have been discriminated against.
- c. Placing employment advertisements in media which have significant circulation among minority-group people or women in the recruiting area.
- d. Recruiting through schools and colleges with significant minority-group or women enrollments.
- e. Maintaining systematic contracts with women's, minority and human relations organizations, leaders and speakers to encourage referral of qualified minority and women applicants.
- f. Encouraging present employees to refer women and minority applicants.
- g. Making known to all recruitment sources that qualified women and minority members are being sought for consideration whenever the station hires.

2. To assure nondiscrimination in selection and hiring:

- a. Instructing personally those of your staff who make hiring decisions that women and minority applicants for all jobs are to be considered without discrimination.
- b. Where union agreements exist:
 - (1) Cooperating with your unions in the development of programs to assure qualified minority persons of equal opportunity for employment;
 - (2) Including an effective nondiscrimination clause in new or re-negotiated union agreements.
- c. Avoiding use of selection techniques or tests which have the effect of discriminating against women and minority groups.

3. To assure nondiscriminatory placement and promotion:

- a. Instructing personally those of the station staff who make decisions on placement and promotion that women and minority employees are to be considered without discrimination, and that job areas in which there is little or no female or minority representation should be reviewed to determine whether this results from discrimination.
- b. Giving women and minority group employees equal opportunity for positions which lead to higher positions, as to the interest and skills of all lower paid employees with respect to any of the higher paid positions, assistance, counseling, and effective measures to enable employees with interest and potential to qualify themselves for such positions.

STANDARD BROADCAST
ENGINEERING DATA

Name of applicant

WHOT, Inc.

Station WHOT

1. Indicate by check mark the purpose of this application. (The items of this Section that are applicable to, and must be answered for, each category are shown to the right of the category.)

- ☐ Construct a new station
☐ Change station location to a different city or town
☒ Change power
☐ Change transmitter location
☐ Change frequency
☐ Change from DA to Non-DA
☐ Change from Non-DA to DA
☒ Change in antenna system (including increase in height by addition of FM or TV antenna)

All items

- ☐ Install new Auxiliary Transmitter
☐ Install new Alternate Main Transmitter
☐ Change transmitter (non type accepted)
☐ Change Main Studio Location to point outside city limits and not at transmitter site
☐ Change Hours of Operation
☐ Other (specify):

2 thru 7,
and 10

2 thru 7

2 thru 7
(and appropriate
other items)

If this application is not for a new station, summarize briefly the nature of the changes proposed:

It is proposed to add a new tower to the existing WHOT nighttime array and increase nighttime power from 1 kW to 5 kW. No changes are proposed in the daytime operation.

2. Facilities requested			10. Antenna system, including ground or counterpoise	
Frequency 1330 kHz	Hours of operation U	Power in kilowatts Night 5 Day 0.5	Non-Directional Antenna: Day <input type="checkbox"/> Night <input type="checkbox"/>	Directional Antenna: Day only (DA-D) <input type="checkbox"/> Night only (DA-N) <input type="checkbox"/> Same constants and power day and night (DA-1) <input type="checkbox"/> Different constants or power day and night (DA-2) <input checked="" type="checkbox"/>
3. Station location			(If a directional antenna is proposed submit complete engineering data. Show clearly whether directional operation is for day or night or both. If day and night patterns are different give full information on each pattern. This information is in addition to the information in Paragraph 10 and is submitted as Exhibit No. and signed by the engineer who designed the antenna system.)	
State Ohio	City or town Campbell		SEE ENGINEERING STATEMENT	
4. Transmitter location			Type radiator	Height in feet of complete radiator above base insulator, or above base if grounded.
State Ohio	County Mahoning		Uniform cross-section, guyed	Prop. Tower: 360 5 Exist. Towers: 370
City or town Campbell	Street Address (or other identification) 0.5 mi. W of Unity Rd. on Calla Rd.		Overall height in feet above ground. (Without obstruction lighting) Prop. Tower: 363 5 Exist. Towers: 373	Overall height in feet above mean sea level. (Without obstruction lighting) Prop. Tower: 1523 5 Exist. Towers: 1533
5. Main studio location			Overall height in feet above ground. (With obstruction lighting) Prop. Tower: 366 5 Exist. Towers: 376	Overall height in feet above mean sea level. (With obstruction lighting) Prop. Tower: 1526 5 Exist. Towers: 1536
State Ohio	County Mahoning		If antenna is either top loaded or sectionalized, describe fully as Exhibit No.	
City or town Campbell	Street and number, if known 401 North Blaine Ave.		Not Applicable	
6. Remote control point location			Excitation Series <input checked="" type="checkbox"/> Shunt <input type="checkbox"/>	
State Not Applicable	City or town Not Applicable		Geographical coordinates (to nearest second). For directional antenna give coordinates of center of array. For single vertical radiator give tower location.	
Street Address (or other identification)			North latitude 40° 58' 26"	West longitude 80° 35' 18"
7. Transmitter			If not fully described above, give further details and dimensions including any other antennas mounted on tower and associated isolation circuits as Exhibit No. SEE ENGINEERING STATEMENT	
Make Harris	Type No. MW-5	Rated Power 5 kW	Submit as Exhibit No. a plot of the transmitter site showing boundary lines and base location. If counterpoise is used, show height and dimensions.	
(If the above transmitter has not been accepted for licensing by the F.C.C., attach as Exhibit No. a complete showing of transmitter details. Showing should include schematic diagram and full details of frequency control. If changes are to be made in licensed transmitter include schematic diagram and give full details of change.)			11. Attach as Exhibit No. a sufficient number of aerial photographs taken in clear weather at appropriate altitudes and angles to permit identification of the proposed station. The photographs must be marked so as to show clearly the location of the proposed station, and locations of the proposed 1000 av/a contour for both day and night operation. Photographs taken in eight different directions from an elevated position on the ground will be acceptable in lieu of the aerial photographs if the data referred to can be clearly shown.	
ON FILE BY MANUFACTURER			SEE ENGINEERING STATEMENT	
8. Antenna monitor			SEE ENGINEERING STATEMENT	
Make Potomac Instruments	Type No. AM-19(204)		SEE ENGINEERING STATEMENT	
XXXXXX monitor Modulation			SEE ENGINEERING STATEMENT	
Make On File - No Change	Type No.		SEE ENGINEERING STATEMENT	

12. Allocation Studies:

- A. Attach as Exhibit No. _____ map or maps, having reasonable scales, showing the 1000, 25, 5, 2, normally protected and interference-free contours in mv/m for both day and night operation both existing and as proposed by the application. On the map or maps showing the 25 mv/m, 5 mv/m and interference-free contours, clearly indicate the legal boundaries of the proposed community of license and the business and residential areas therein. Submit a statement identifying the source or sources relied upon for the placement of those boundaries. (NOTE: The 2mv/m night contour need not be supplied if service is not rendered thereto.)

SEE ENGINEERING STATEMENT

- B. (1) For daytime operation, attach as Exhibit No. _____ an allocation study, utilizing Figure M-3 of the Rules or an accurate full scale reproduction thereof and using pertinent field strength measurement data where available, a full scale exhibit of the entire pertinent area to show the following:
- (a) Normally protected, the interference-free, and the interfering contours for the proposed operation along all azimuths.
 - (b) Complete normally protected and interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
 - (c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
 - (d) Normally protected and interfering contours over pertinent arcs of all other proposals and existing stations which require study to show the absence of objectionable interference.
 - (e) The 0.1 mv/m groundwave contour of Class I-B stations and appropriate studies to establish compliance with Section 73.187 when operation is proposed on a U. S. Class I-B channel.
 - (f) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers, and operating or proposed facilities.
 - (g) Properly labeled longitude and latitude degree lines, shown across entire exhibit.

SEE ENGINEERING STATEMENT

- (2) For daytime operation, when necessary, attach _____ an additional allocation study, utilizing World or Sectional Aeronautical charts to clearly show interference or absence thereof.

- (3) For daytime operation, attach as Exhibit No. _____ a tabulation of the following:

- (a) Azimuths along which the ground wave contours were calculated for all stations or proposals shown on allocation study exhibits required by B(1).
- (b) Inverse distance field strength used along each azimuth.
- (c) Basis for ground conductivity utilized along azimuths specified in (3) (a). If field strength measurements are used, the measurements must be either submitted or be properly identified as to location in Commission files.

- C. For nighttime operation, attach as Exhibit No. _____, allocation data to include the following:

- (1) Proposed nighttime limitation to other existing or proposed stations with which objectionable interference would result, as well as those other proposals and existing stations which require study to clearly show absence of objectionable interference.
- (2) All existing or proposed nighttime limitations which enter into the nighttime R.S.S. limitation of each of the existing or proposed facilities investigated under C (1) above.
- (3) All existing and proposed limitations which contribute to the R.S.S. nighttime limitation of the proposed operation, together with those limitations which must be studied before being excluded.
- (4) A detailed interference study plotted upon an appropriate scale map if a question exists with respect to nighttime interference to other existing or proposed facilities along bearings other than on a direct line toward the facility considered.
- (5) Utilizing an appropriate scale map, SEE ENGINEERING STATEMENT interference-free contours of each of the existing and proposed stations which would receive nighttime interference from the proposed operation.
- (6) The detailed basis for each nighttime limitation calculated under C (1) (2) (3) and (4) above, including copy of each pertinent radiation pattern in the vertical plane and basis therefor.

13. Attach as Exhibit No. _____ tables of the areas and populations within the contours included in Paragraph 12(A) above, as well as within the normally protected and interference-free contours of each station or proposed operation to which interference would be caused according to the Commission Rules.

(NOTE: See the Standard Broadcast Technical Standards. In determining the population that would receive primary service, the field intensity levels required are those given in Section 73.182(g). The latest U. S. Census Minor Civil Division and/or subdivisions such as Enumeration Districts or Block Statistics are to be used in making population counts. The populations of places or portions thereof, within any contour, which would not receive a primary service, are to be listed. Where contours cut a division or subdivision, a uniform distribution of population within the division or subdivision is to be assumed in determining the population included in the contours, unless a more accurate count is made).

SEE ENGINEERING STATEMENT

14. Attach as Exhibit No. _____ map or maps having reasonable scales clearly showing the following:

(a) Proposed antenna location

(b) Heights of buildings or other structures and terrain elevations in the vicinity of the antenna, indicating the location thereof.

(c) Transmitter location and call letters of all radio stations (except amateur) and the location of established commercial and government receiving stations within 2 miles of the proposed transmitter location. Call letters and locations of broadcast stations, including FM and television, within 5 miles must be shown.

(d) Terrain

SEE ENGINEERING STATEMENT

15. If this application is for modification of construction permit state briefly as Exhibit No. _____ the present status of construction and indicate when it is expected that construction will be completed.

NOT APPLICABLE

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Date June 25, 1976

Signature Martin J. Shively

(check appropriate box below)

☐ Technical Director

☐ Chief Operator

☒ Registered Professional Engineer

☒ Consultant

Nighttime Only

FCC Form 301		FEDERAL COMMUNICATIONS COMMISSION		Section V-C (Antenna)																																																		
ANTENNA AND SITE INFORMATION <small>(See instruction B Section 1)</small>		Name of applicant WHOT, Inc.		Station WHOT																																																		
Legal Counsel Midlen & Reddy		Purpose of application (Check appropriate box) a. New antenna construction <input checked="" type="checkbox"/> XX b. Alteration of existing antenna structures <input type="checkbox"/> c. Change in location <input type="checkbox"/>																																																				
Address 1990 M St., N.W. Washington, D.C. 20036		2. Features of surrounding terrain List any natural formations or existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft and thereby minimize the aeronautical hazard of the antenna. The proposed new tower is 10 ft. shorter than the existing 5 towers and approx. 67 ft shorter than a tower approx. 1 mi NW of the site																																																				
Consultant A. D. Ring & Associates		Submit as Exhibit No. _____ a chart on which is plotted the exact location of the antenna site, and also the relative location of the natural formations and/or the existing man-made structures listed SEE ENGINEERING STATEMENT The chart used shall be an Instrument Approach Chart (or the landing chart on reverse side thereof), or a Sectional Aeronautical Chart, choice depending upon proximity of the antenna site to landing areas. 1/ In general, the Sectional Aeronautical Chart should be used only when the antenna site is more than 10 miles from a landing area or when an Instrument Approach Chart is unobtainable. 1/ These charts may be purchased from the U. S. Coast and Geodetic Survey, Rockville, Md. 20852 1/ Exception - Where the proposed antenna site is within the boundary of a landing area for which no Instrument Approach Chart is available, submit a self-made, large scale map showing antenna site, runway(s) and existing man-made structures listed above.																																																				
Address 1771 N St., N.W. Washington, D.C. 20036		Class of station Std. Broadcast																																																				
Facilities requested 1330kHz, 0.5kW-D; 5kW-N, DA-2		1. Location of antenna State Ohio County Mahoning City or Town Campbell																																																				
Exact antenna location (street address) (If outside city limits, give distance and direction from, and name of nearest town) 0.5mi West of Unity Rd. on Calla Rd. (approx. 2 mi. NW of New Middletown, Ohio)		Geographic coordinates (to be determined to nearest second. For directional antenna give coordinates of center of array.) For single vertical radiator give tower location. North latitude 40 58 26 West longitude 80 35 18																																																				
Designation, distance, and bearing to center line of nearest established airway within 5 miles V-41, 3mi., 270°T		4. List all landing areas within 10 miles of antenna site. Give distance and direction to the nearest boundary of each landing area from the antenna site. <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Landing Area</th> <th style="text-align: center;">Distance</th> <th style="text-align: center;">Direction</th> </tr> </thead> <tbody> <tr> <td>(a) Youngstown Elser</td> <td style="text-align: center;">4 mi</td> <td style="text-align: center;">W</td> </tr> <tr> <td>(b) Hunt (Pvt)</td> <td style="text-align: center;">9</td> <td style="text-align: center;">W</td> </tr> <tr> <td>(c) Lansdowne (See Attachment)</td> <td style="text-align: center;">10</td> <td style="text-align: center;">N</td> </tr> </tbody> </table>				Landing Area	Distance	Direction	(a) Youngstown Elser	4 mi	W	(b) Hunt (Pvt)	9	W	(c) Lansdowne (See Attachment)	10	N																																					
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5. Description of antenna system (If directional, give spacing and orientation of towers). Six towers in a line bearing 6.3°T and spaced 246.5 ft. between adjacent towers																																																						
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Type</th> <th colspan="6" style="text-align: center;">Uniform cross-section</th> </tr> <tr> <th style="text-align: left;">Description of tower(s)</th> <th colspan="6" style="text-align: center;">Steel</th> </tr> <tr> <th style="text-align: left;">Self-supporting</th> <th colspan="3" style="text-align: center;">Guyed</th> <th colspan="3" style="text-align: center;">Tubular (Pole)</th> </tr> <tr> <th style="text-align: left;">Tower (height figures should include obstruction lighting)</th> <th style="text-align: center;">#1</th> <th style="text-align: center;">#2</th> <th style="text-align: center;">#3</th> <th style="text-align: center;">#4</th> <th style="text-align: center;">#5</th> <th style="text-align: center;">#6</th> </tr> </thead> <tbody> <tr> <td>Height of radiating elements</td> <td style="text-align: center;">360</td> <td style="text-align: center;">370</td> <td style="text-align: center;">370</td> <td style="text-align: center;">370</td> <td style="text-align: center;">370</td> <td style="text-align: center;">370</td> </tr> <tr> <td>Overall height above ground</td> <td style="text-align: center;">366</td> <td style="text-align: center;">376</td> <td style="text-align: center;">376</td> <td style="text-align: center;">376</td> <td style="text-align: center;">376</td> <td style="text-align: center;">376</td> </tr> <tr> <td>Overall height above mean sea level</td> <td style="text-align: center;">1526</td> <td style="text-align: center;">1536</td> <td style="text-align: center;">1536</td> <td style="text-align: center;">1536</td> <td style="text-align: center;">1536</td> <td style="text-align: center;">1536</td> </tr> </tbody> </table>						Type	Uniform cross-section						Description of tower(s)	Steel						Self-supporting	Guyed			Tubular (Pole)			Tower (height figures should include obstruction lighting)	#1	#2	#3	#4	#5	#6	Height of radiating elements	360	370	370	370	370	370	Overall height above ground	366	376	376	376	376	376	Overall height above mean sea level	1526	1536	1536	1536	1536	1536
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If a combination of Standard, FM, or TV operation is proposed on the same multi-element array (either existing or proposed) submit as Exhibit No. _____ a horizontal plan for the proposed antenna giving the height of the elements above ground and showing their orientation and spacing in feet. Clearly indicate if any towers are existing. Submit as Exhibit No. _____ a vertical plan sketch for the proposed total structure (including supporting building if any) giving heights above ground in feet for all significant elements, including supporting building, noting painting and lighting.																																																						
Is the proposed antenna system designed so that obstruction lights may be installed and maintained at the uppermost point(s)? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>																																																						
6. Is the proposed site the same or immediately adjoining the transmitter-antenna site of other stations authorized by the Commission or specified in another application pending before the Commission? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Present WHOT If the answer is "Yes", give: CALL LETTERS Nighttime FILE NUMBER License																																																						
I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief. <div style="display: flex; justify-content: space-between;"> <div> June 25, 1976 <small>(date)</small> </div> <div> Signature _____ <small>(Check appropriate box below)</small> </div> </div> <div style="display: flex; justify-content: flex-end; margin-top: 5px;"> <input type="checkbox"/> Technical Director <input type="checkbox"/> Chief Operator <input checked="" type="checkbox"/> Registered Professional Engineer <input checked="" type="checkbox"/> Consultant </div>																																																						

Attachment to Par. 4
of Section V-G

<u>Landing Area</u>	<u>Dist (mi)</u>	<u>Direction</u>
d. New Castle	9	E
e. Gwin	5	ESE
f. Petersburg	5	SE
g. Kimmel (Pvt)	8	SE

SUPPLEMENT TO APPLICATION FOR NEW OR MODIFIED RADIO STATION AUTHORIZATION
(concerning antenna structure notification to FAA)

PART I - Instructions

1. When required, attach this form (ONE COPY ONLY) to application for radio station authorization and submit to Federal Communications Commission, Washington, D. C. 20554. If more than one FAA Notice (see Part III below) was sent to FAA for antenna structure(s) covered by the attached application, submit a copy of this form for each such notification.
2. If the attached application is for modification and original application file number is known, enter file number in Part 3 below.
3. Do not correspond with the Federal Communications Commission concerning Part 77 of the Federal Aviation Administration (FAA) Regulations. Information concerning FAA Rules should be obtained from one of the FAA Offices listed on the reverse of this form.
4. FAA Form 7460-1 "Notice of Proposed Construction or Alteration" is to be used for antenna structure notification to the Federal Aviation Administration. That form may be obtained from any one of the offices listed on the reverse of this form and should be returned to the Federal Aviation Administration.

PART II - Identification of Applicant

1. Name of Applicant (must be same as shown on attached application for radio authorization) WHOT, Inc.	2. Name of Radio Service Standard Broadcast
3. Application File Number (see Instruction 2 above)	

PART III - Status of Notice to FAA

The Federal Aviation Administration requires notification of proposed antenna structure construction or alteration in accordance with its Part 77 Regulations, "Notice of Construction or Alteration affecting Navigable Airspace". (See also Part 17, Subpart B, of FCC Rules). Check 1 or 2 below and furnish the information requested.

1. ☒ NOTIFICATION HAS BEEN SUBMITTED TO FAA

a. Name used (individual, company, corporation etc.) in making notification of construction or alteration to FAA WHOT, Inc.										
b. FAA office where filed Eastern Region	c. Date of notification to FAA June 25, 1976									
d. Location of Antenna Structure as reported to FAA <table style="width: 100%;"> <tr> <td style="width: 30%;">City</td> <td style="width: 30%;">State</td> <td style="width: 40%;">Geographical Coordinates</td> </tr> <tr> <td>New Middletown</td> <td>Ohio</td> <td>Latitude 40°58'26"N</td> </tr> <tr> <td colspan="2"></td> <td>Longitude 80°35'18"W</td> </tr> </table>		City	State	Geographical Coordinates	New Middletown	Ohio	Latitude 40°58'26"N			Longitude 80°35'18"W
City	State	Geographical Coordinates								
New Middletown	Ohio	Latitude 40°58'26"N								
		Longitude 80°35'18"W								
e. Height of completed Antenna Structure as reported to FAA <table style="width: 100%;"> <tr> <td style="width: 50%;">Overall Height above ground level</td> <td style="width: 50%;">Overall height above mean sea level</td> </tr> <tr> <td style="text-align: center;">366 ft.</td> <td style="text-align: center;">1526 ft.</td> </tr> </table>		Overall Height above ground level	Overall height above mean sea level	366 ft.	1526 ft.					
Overall Height above ground level	Overall height above mean sea level									
366 ft.	1526 ft.									

2. ☐ NOTIFICATION HAS NOT BEEN SUBMITTED TO FAA - The proposed antenna structure(s) covered in attached application being submitted to FCC has been analyzed under Part 17, Subpart B, of the FCC Rules and it has been determined that notification to FAA is not required.

PART IV - Certification

I certify that all of the above statements are true, complete, and correct to the best of my knowledge.

Date Signed June 25, 1976 Signature of person certifying *Maurice Blumberg*

ESTIMATED CONSTRUCTION AND OPERATING COSTS

ESTIMATED CONSTRUCTION AND OPERATING COSTS

Estimates for equipment and miscellaneous expenses are based upon quotations from the equipment manufacturer, legal and engineering counsel and the long-time broadcast experience of the president of the applicant.

The only additional first year operating cost for the requested new facility will consist of electric power estimated at \$2,500.00.

STATE OF

ASSETS

ASSETS

CURRENT ASSETS

CASH

\$ 11,700.00

ACCOUNTS RECEIVABLE

148,000.00

LOANS TO AFFILIATE COMPANIES

500.00

TOTAL CURRENT ASSETS

\$ 150,200.00

FIXED ASSETS

LAND

\$ 5,000.00

BUILDINGS

\$ 304,000.00

FURNITURE AND EQUIPMENT

32,000.00

BUILDING

300.00

TOTAL

\$ 336,300.00

LESS DEPRECIATION

200,000.00

TOTAL NET

40,000.00

LESS

BALANCE SHEET OF WHOT, INC.

TOTAL ASSETS

\$ 51,690.00

OTHER ASSETS

NON-DEPRECIABLE ASSETS

\$ 3,180.00

LOANS TO AFFILIATE COMPANIES

304,000.00

TOTAL OTHER ASSETS

307,180.00

TOTAL ASSETS

\$ 517,870.00

LIABILITIES AND STOCKHOLDERS' EQUITY

CURRENT LIABILITIES

ACCRUED PAYABLE TAXES

\$ 515.00

LONG TERM LIABILITIES

NOTE PAYABLE TO AFFILIATE COMPANIES

4,400.00

TOTAL LIABILITIES

\$ 4,915.00

STOCKHOLDERS' EQUITY

CAPITAL STOCK

\$ 500.00

PAID IN CAPITAL

37,490.00

EARNINGS RETAINED IN THE BUSINESS

474,755.00

TOTAL

512,745.00

TOTAL LIABILITIES AND STOCKHOLDERS' EQUITY

\$ 517,870.00

UNAUDITED

WHOT, INC.
STATEMENT OF FINANCIAL POSITION
AS AT APRIL 30, 1976

ASSETS

CURRENT ASSETS:

CASH		\$ 11,098.77
ACCOUNTS RECEIVABLE - TRADE		146,773.19
LOANS RECEIVABLE - EMPLOYEES		900.00
TOTAL CURRENT ASSETS		\$ 158,771.96

FIXED ASSETS:

LAND		\$ 5,000.00
BROADCASTING EQUIPMENT	\$ 304,309.25	
FURNITURE & FIXTURES	32,088.27	
BUILDING	3,871.15	
TOTAL	\$ 340,268.67	
LESS ESTIMATED DEPRECIATION:	293,578.45	
TOTAL DEPRECIABLE ASSETS AT COST		46,690.22
LESS ESTIMATED DEPRECIATION		
TOTAL FIXED ASSETS		51,690.22

OTHER ASSETS:

NON DEPRECIABLE ASSETS	\$ 3,187.97	
LOANS TO AFFILIATE STATIONS	304,048.40	
TOTAL OTHER ASSETS		307,236.37

TOTAL ASSETS

\$ 517,698.55

LIABILITIES AND STOCKHOLDER'S EQUITY

CURRENT LIABILITIES:

ACCRUED PAYROLL TAXES		\$ 515.65
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LONG TERM LIABILITIES:

NOTES PAYABLE TO AFFILIATE COMPANIES		4,400.00
TOTAL LIABILITIES		\$ 4,915.65

STOCKHOLDER'S EQUITY:

CAPITAL STOCK - COMMON	\$ 500.00	
PAID IN SURPLUS	37,493.96	
EARNINGS RETAINED IN THE BUSINESS	474,788.94	
TOTAL		512,782.90

TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY

\$ 517,698.55

UNAUDITED

NET INCOME

NET INCOME

The Net Income of WHOT, Inc. after Federal Income Taxes
was in excess of \$25,000.00 for each of the years 1974 and 1975.

FINANCIAL STATEMENTS

FINANCIAL STATEMENT

For the year ended

1977-1978

<u>Item</u>	<u>Cost</u>
Equipment	\$ 42,000
Land	1,000
Miscellaneous	2,000
Administrative	4,000
First year	

FINANCING PLAN

To meet the financial requirements of the project, the following sources of funds are proposed:

Sources

Deferment	\$ 40,000
(See Exhibit 1)	
Existing funds	10,000
(See Exhibit 2)	
Accounts receivable	80,000
75% of total	
certificates of deposit	
with interest	

\$150,000

Thus, in effect, the debt is only \$150,000. With the above financing plan, the project is self-sustaining.

FINANCING PLAN

For construction and first year's operation of Station WHOT with the requested facilities applicant will require approximately \$119,000.00 as follows:

<u>Item</u>	<u>Cost</u>
Equipment	\$ 94,912.00
Land (Lease)	600.00
Miscellaneous	21,000.00
Additional Operating Costs - First Year	2,500.00
	<hr/>
DEVELOPMENT COSTS	\$119,012.00

To meet this financial requirement applicant relies on the following plan establishing the availability of funds in excess of \$150,000.00.

<u>Source</u>	<u>Amount</u>
Deferred Credit - Equipment (See Attachment A)	\$ 50,191.00
Existing Capital (See Exhibit No. 2)	10,583.00
Accounts Receivable 75% of \$119,528.34 certified aged and collectible within 90 days (See Attachment B)	89,646.25
	<hr/>
	\$150,435.25

Thus, it is seen that the applicant is fully financially qualified with funds of approximately \$30,000.00 available in excess of the sum required.

DEFERRED CREDIT - EQUIPMENT

HARRIS

COMMUNICATIONS AND
INFORMATION HANDLING

June 22, 1976

Radio Station WHOT
Attn: Mr. Myron Jones, President
401 North Blaine
Youngstown, Ohio 44505

Dear Mr. Jones:

In connection with your application on file with the FCC for an improvement of your AM broadcast station in Youngstown, Ohio, we are very pleased that you are contemplating the use of Harris equipment. It is our understanding that your total equipment requirements, including a 5000 watt transmitter, will be approximately \$95,000.00.

Our usual payment and credit terms are as follows:

Down payment of 25% to be made with firm order.

Balance of 75% to be financed over a maximum of 48 months at the rate of finance charge in effect at the time of shipment (the current rate is 8½% per annum). The deferred balance, including finance charge, is payable in 48 consecutive monthly installments, with the first payment due 60 days after shipment of the equipment.

A purchase on deferred installments will be covered by Harris standard form of deferred payment contract and related documents, including promissory notes to evidence the installments, with these notes being executed prior to shipment.

This will confirm that upon receipt of an order as contemplated by our proposal and acceptable credit verification by our Credit Department, Harris Broadcast Products Division will make credit available to you in accordance with the terms identified above.

It is a pleasure to furnish you this information. We hope you will receive your license approval at an early date, and that we may have the privilege of serving you.

Sincerely yours,


Walter B. Rice
Sales Manager-Radio Broadcast Products
WBR:mh

CERTIFICATION OF ACCOUNTS RECEIVABLE

JOSEPH C. GOMERSALL

Certified Public Accountant

4508 MILLER AVENUE

ERIE, PENNSYLVANIA 16509

PHONE: 814/868-4802

ASSETS

JUNE 22, 1976

MR. MYRON JONES, PRESIDENT
W H O T, INC.
1635 ASH STREET
ERIE, PENNSYLVANIA 16503

RE: W H O T ACCOUNTS RECEIVABLE

DEAR MR. JONES:

PURSUANT TO YOUR REQUEST WE HAVE EXAMINED THE STATION W H O T ACCOUNTS RECEIVABLE AS OF APRIL 30, 1976. THE RESULTS OF OUR STUDY IS SHOWN IN THE FOLLOWING TABULATION.

TOTAL

APRIL 30, 1976

NON ACCOUNTS RECEIVABLE

\$146,773.19

LOAN

TD DOUBTFUL ACCOUNTS

\$16,677.25

TOTAL ACCOUNTS COLLECTABLE,
AFTER 90 DAYS

10,567.60

LIABILITIES

27,244.85

CURRENT ACCOUNTS COLLECTABLE WITHIN 90 DAYS

\$119,528.34

THE EXAMINATION WAS LIMITED TO AN AGING OF THE ACCOUNTS AND AN INDIVIDUAL EVALUATION AS TO THE STATUS OF EACH ACCOUNT. OUR EVALUATION IS BASED UPON MANY YEARS EXPERIENCE WHICH THIS FIRM HAS WITH THE W H O T ACCOUNTS THROUGH MONTHLY BILLING, POSTING AND PREPARATION OF STATEMENTS AND TAX RETURNS FOR W H O T, INC. WE BELIEVE, THEREFORE, THAT THE INFORMATION SHOWN HERE, FAIRLY PRESENTS THE STATUS OF THE W H O T ACCOUNTS RECEIVABLE AS OF THE DATE SHOWN.

PAID

EARNING OF THE BUSINESS

TOTAL

VERY TRULY YOURS,

David Ryan, P.A.
DAVID RYAN

TOTAL LIABILITIES

DHR:MM

SUBSCRIBED AND SWORN TO BEFORE ME
THIS 22ND DAY OF JUNE, 1976

William F. Berchtold

WILLIAM F. BERCHTOLD, NOTARY PUBLIC

ERIE, ERIE COUNTY, PENNSYLVANIA

MY COMMISSION EXPIRES MAY 29, 1979

WHOT, INC.
STATEMENT OF FINANCIAL POSITION
AS AT APRIL 30, 1976

ASSETS

CURRENT ASSETS:

CASH		\$ 11,098.77
ACCOUNTS RECEIVABLE - TRADE		146,773.15
LOANS RECEIVABLE - EMPLOYEES		900.00
TOTAL CURRENT ASSETS		\$ 158,771.92

FIXED ASSETS:

LAND		\$ 5,000.00
BROADCASTING EQUIPMENT	\$ 304,309.25	
FURNITURE & FIXTURES	32,088.27	
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TOTAL	\$ 340,268.67	
LESS ESTIMATED DEPRECIATION:	293,578.45	
TOTAL DEPRECIABLE ASSETS AT COST		46,690.22
LESS ESTIMATED DEPRECIATION		
TOTAL FIXED ASSETS		51,690.22

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NON DEPRECIABLE ASSETS	\$ 3,187.97	
LOANS TO AFFILIATE STATIONS	304,048.40	
TOTAL OTHER ASSETS		307,236.37

TOTAL ASSETS

\$ 517,698.55

LIABILITIES AND STOCKHOLDER'S EQUITY

CURRENT LIABILITIES:

ACCRUED PAYROLL TAXES		\$ 515.65
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LONG TERM LIABILITIES:

NOTES PAYABLE TO AFFILIATE COMPANIES		4,400.00
TOTAL LIABILITIES		\$ 4,915.65

STOCKHOLDER'S EQUITY:

CAPITAL STOCK - COMMON	\$ 500.00	
PAID IN SURPLUS	37,493.96	
EARNINGS RETAINED IN THE BUSINESS	474,788.94	
TOTAL		512,782.90

TOTAL LIABILITIES AND STOCKHOLDER'S EQUITY

\$ 517,698.55

UNAUDITED

ASCERTAINMENT AND PROGRAMMING

ASCERTAINMENT AND PROGRAMMING

For the ascertainment of community problems, the applicant relies on the extensive community leader and general public surveys conducted for the applications for renewal of licenses for Stations WHOT and WHOT-FM, filed with the Commission on June 1, 1976.

All of the area gained with the increased nighttime facilities requested herein is encompassed either by the daytime 0.5 and 2 mv/m contours of Station WHOT or the 1 mv/m contour of Station WHOT-FM. This entire area was included in the common WHOT and WHOT-FM surveys conducted for the 1976 license renewal applications.

The applicant plans no change in the WHOT programming from that specified in BR-3204.

PUBLIC INTEREST BENEFITS OF INCREASED POWER

PUBLIC INTEREST BENEFITS OF INCREASED POWER

With an increase in power, the public residing within the Campbell-Youngstown urban area will benefit from improved reception of Station WHOT during night hours. Operating with increased power, the night coverage will more nearly approximate the Station's daytime coverage. And importantly, the increased power will cause the interference-free contour to reach approximately the area depicted in the application for the existing facilities of Station WHOT. This anticipated coverage was not realized due to the ground conductivity from the WHOT nighttime transmitter site being less favorable than the conductivity depicted by the Commission's conductivity map (Fig. M-3), upon which the original service contours were based.

The WHOT night signal intensity, which presently is marginal within the heavy industrial areas of Campbell and Struthers, and in many other portions of the urban area, will be markedly improved. In the fifteen years since installation of the existing WHOT nighttime facilities the urban population of the Campbell-Youngstown area has expanded notably toward the north, northwest and west sectors of the community. The improved facilities will provide an interference-free signal to much of this new suburban area. And finally all of the area now served will receive a signal of sufficient intensity to equal the daytime signal level and, accordingly, will provide an improved fidelity for the nighttime operational hours of Station WHOT.



ENGINEERING REPORT



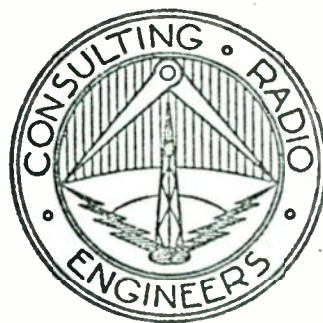
AMERICAN OVERSEAS AIRLINES

WASHINGTON, D.C.

ENGINEERING STATEMENT
WHOT, INC.
FOR AUTHORITY TO IMPROVE THE
FACILITIES OF STATION WHOT
CAMPBELL, OHIO

Pres: 1330kHz 0.5kW-D; 1.0kW-N DA-2
Prop: 1330kHz 0.5kW-D; 5kW-N DA-2

June 25, 1976



A. D. RING & ASSOCIATES

WASHINGTON, D. C.

TABLE OF CONTENTS

ENGINEERING STATEMENT CONCERNING THE APPLICATION OF WHOT, INC. FOR AUTHORITY TO IMPROVE THE FACILITIES OF STANDARD BROADCAST STATION WHOT CAMPBELL, OHIO

Pres.: 1330 kHz

0.5 kW-D; 1.0 kW-N

DA-2

Prop.: 1330 kHz

0.5 kW-D; 5 kW-N

DA-2

1. Engineering Statement
2. Table I
 - Radiation and Soil Conductivity Assumptions
3. Tables II-A - II-J
 - Nighttime Allocation Study
4. Table III
 - Population and Area Within Present and Proposed Night Contours
5. Table IV
 - Description of Proposed Nighttime Directional Antenna System
6. Table V
 - Proposed Nighttime Directional Antenna Design Formulae and Data
7. Table VI
 - Field Strength Measurements on Station WKBN, Youngstown, Ohio (570 kHz)
8. Figure 1
 - Proposed Nighttime Horizontal Plane Standard Radiation Pattern
9. Figures 2-A - 2-M
 - Proposed Nighttime Conical Plane Standard Radiation Patterns
10. Figure 3
 - Present Nighttime Service Contours
11. Figure 4
 - Proposed Nighttime Service Contours

TABLE OF CONTENTS
(Continued)

12. Figure 5 - Proposed Nighttime Blanket
(1 V/m) Contour
13. Figures 6-A - 6 BBBB - Vertical Plane Radiation
Patterns Pertinent to Night-
time Allocation Study
14. Figures 7-A - 7-H - Night Interference-Free Con-
tours of Stations Critical to
Night Allocation Study and
Periphery Points.
15. Figures 8-A and 8-B - Field Strength vs Distance
Graph for Measurements Taken
on Station WKBN, Youngstown,
Ohio and Family of Attenuation
Curves on 570 kHz.
16. Figures 9-A - 9-G - Maps of Measuring Points Along
Bearing of 23° True From WKBN,
Youngstown, Ohio, Toward Sta-
tion WRIE, Erie, Pennsylvania
17. Figure 10 - Map showing absence of Ground-
wave overlap From Nighttime
WHOT Operation to WRIE N.I.F.
Contour
18. Figure 11 - Plat of Site
19. Figure 12 - Sketch of Antenna
20. Figure 13 - Aeronautical Chart
21. Appendix A - Affidavit of Mr. Myron Jones

ENGINEERING STATEMENT
CONCERNING THE APPLICATION OF
WHOT, INC.

FOR AUTHORITY TO IMPROVE
THE FACILITIES OF
STATION WHOT
CAMPBELL, OHIO

Pres.: 1330 kHz	0.5 kW-D; 1.0 kW-N	DA-2
<u>Prop.: 1330 kHz</u>	<u>0.5 kW-D; 5 kW-N</u>	<u>DA-2</u>

This Engineering Statement supports an application from WHOT, Inc., licensee of Standard Broadcast Station WHOT, Campbell, Ohio, for authority to increase power during the nighttime hours. Operation is proposed with the nominal nighttime power of 5 kW from the present nighttime site of WHOT employing the existing five towers of the WHOT nighttime array in conjunction with one new tower which will be constructed on the WHOT property to comprise a six tower array for the proposed WHOT nighttime operation at higher power. No change is involved in the WHOT daytime operation.

Station WHOT presently is licensed to operate on the frequency of 1330 kHz with a power of 0.5 kW during the daytime hours and the power of 1 kW during the nighttime hours. Separate transmitter sites are employed for the daytime and nighttime operations. No change is proposed in the existing daytime operation, or the operating frequency.

The geographical coordinates of the center of the proposed night antenna system are:

North Latitude: 40° 58' 26"
West Longitude: 80° 35' 18"

The five existing towers of the WHOT nighttime operation are shown on the most recent topographic Quadrangle sheet (7.5 minute - New Middletown, Ohio). The geographical coordinates shown in the WHOT license file differ slightly from the actual location of the towers. Accordingly, based upon this recent data, the

geographical coordinates of the center of the proposed six tower array have been corrected to take this into account. No change in site is involved.

CONFIDENTIAL

Table I presents the radiation and soil conductivity assumptions employed to determine the extent of the present and proposed nighttime service contours, as well as the extent of the night interference-free contours for the stations involving detailed consideration (peripheral studies) in the nighttime allocation study. The bearings are listed along which groundwave contours were calculated and the values of radiation and soil conductivity employed for each case are identified.

CONFIDENTIAL

Tables II-A through II-J present data relative to the nighttime allocation study. In all instances, the radiation values from the proposed WHOT nighttime operation are based upon the standard pattern.

The input power to the proposed nighttime antenna however, will be reduced at the time of the Proof of Performance as required to achieve a pattern RMS below that which would otherwise obtain using the full 5 kW input power with these tall radiators and the radiation values for the proposed operation were calculated for the reduced theoretical pattern RMS of 500 mV/m (Standard Pattern RMS = 525.6 mV/m - See Table V.)

CONFIDENTIAL

Table II-A shows the night limit computations, site-to-site, from the proposed WHOT nighttime operation to all pertinent fulltime operations on 1330 kHz. Table II-B presents detailed computations of RSS night limits, site-to-site, to certain stations necessary to demonstrate the absence of interference from the proposed nighttime operation. Tables II-C through II-J present detailed RSS night limit computations to the remaining critical stations on the channel based upon peripheral studies necessary to demonstrate the absence of "clipping" of the nighttime interference-free service areas involved. Although detailed computations are submitted, at only the peripheral points identified on these Tables and Figures 7-A through 7-H, detailed computations were actually performed to each of the points computed at the bearings from these stations shown on Table I to assure complete protection.

As demonstrated by Tables II-A through II-J, no prohibitive skywave interference will result from the proposed operation to other full-time stations on this frequency.

IV. SUMMARY

Table III presents the population and area within the present and proposed nighttime service contours.

The population figures are based upon the 1970 Census and was counted by laying out the contours on Urbanized Area and Minor Civil Divisions Maps. Where a contour cut a minor civil division or urbanized area, the population was proportioned according to the estimated area of the division or urbanized area within the contour, assuming a uniform distribution of population outside of indicated population centers and designated urbanized areas. The population within the proposed nighttime 1 V/m contour was determined by the applicant.

The areas were determined from the original maps by means of a polar planimeter.

Table IV is a description of the proposed nighttime directional antenna system, providing data on the radiating elements and the operating constants.

Table V presents the proposed nighttime directional antenna design formulae and data. Complete assumptions, methods of calculation and examples are given for the proposed nighttime design. A tabulation of nighttime standard radiation at azimuthal intervals of 5° from 0° T through 355° T and vertical intervals of 5° from 0° (horizontal) through 60° is given with the radiation values determined for reduced input power shown so that the theoretical RMS is controlled to the value of 500 mV/m (Standard Pattern RMS = 525.6 mV/m).

Table VI presents the results of field strength measurements made on the daytime operation of Station WKBN, Youngstown, Ohio (570 kHz 5 kW-U DA-N) along the bearing of 23° True toward Station WRIE, Erie, Pennsylvania. The WKBN site is only approximately 1.01 miles generally northwest of the nighttime site of Station WHOT. The measurements were taken to a distance of 72.5 miles and, at the distances involved, the path

is substantially the same as that from Station WHOT. Accordingly, the terminal conductivity as analyzed in this report (See Figure 8-A), was employed to determine the absence of nighttime groundwave overlap from the proposed WHOT operation to the WRIE nighttime interference-free service area (See Figure 10).

These measurements were taken by Mr. Myron Jones whose affidavit is attached (Appendix A).

Figure 1 is the proposed nighttime horizontal plane standard radiation pattern adjusted for RMS shown by reducing input power to the antenna (See Table V).

Figures 2A through 2M are the proposed nighttime conical plane standard radiation patterns adjusted for RMS shown on Figure 1 by reducing input power to the antenna (See Table V).

Figure 3 is a map showing the present nighttime service contours.

Figure 4 is a map showing the proposed nighttime service contours.

Figure 5 is a map showing the WHOT nighttime transmitter site and the proposed nighttime blanket (1 V/m) contour.

Figures 6-A through 6BBBB are vertical plane radiation patterns pertinent to the nighttime allocation study.

Figures 7-A through 7-H are maps showing the nighttime interference-free service contours of those stations on 1330 kHz requiring detailed consideration to demonstrate the absence of "clipping" to their nighttime service areas. The computations to the peripheral points identified on these figures are given in Tables II-C through II-J.

Figure 8A is a field strength vs. distance graph showing the measurements from WKBN, Youngstown, Ohio and presenting an analysis of these measurements. The

Marvin J. Soper
Retired Professor of Physics
June 21, 1976

tabulation of these measured data are given in Table VI. Figure 8-B is the family of attenuation curves for 570 kHz employed in the analysis.

Figures 9A through 9-G are maps showing the measuring route from WKBN at the bearing of 23° True toward WRIE. The points are identified where measurements were made. The measurements commenced in the vicinity of Erie and continued into the WKBN site resulting in lower point numbers at the greater distances from WKBN.

Figure 10 is a map showing the absence of nighttime groundwave overlap to the nighttime interference-free service area of Station WRIE, Erie, Pennsylvania based upon the ratio of 20:1, desired-to-undesired field, for co-channel operation. The site of WKBN is plotted together with the nighttime transmitter site of WHOT to demonstrate the close proximity and to demonstrate that the measuring route from WKBN at 23° True is virtually identical to the path from Station WHOT to Station WRIE.

Figure 11 is a plat of site showing the location of the existing five towers and the location of the new proposed tower on the WHOT property to the south of the existing towers. The details of the proposed ground system and property boundaries are given.

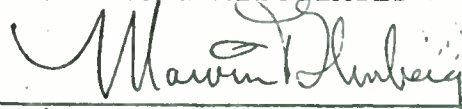
Figure 12 is a sketch of the proposed WHOT antenna system showing the pertinent height and elevation data.

Figure 13 is an aeronautical chart showing the WHOT nighttime transmitter site in relation to the local airports and airways.

Appendix A is the affidavit of Mr. Myron Jones concerning the WKBN field strength measurements and giving data on the field strength meter employed.

No exhibits pertaining to the daytime operation or photograph of site are being submitted since there is no proposed change from that already on file.

A. D. RING & ASSOCIATES



Marvin Blumberg
Registered Professional Engineer
D. C. Registration No. 4492
June 28, 1976

TABLE I

RADIATION AND SOIL CONDUCTIVITY ASSUMPTIONS

Station WHOT
WHOT, Inc.
Campbell, Ohio

Pres.: 1330 kHz
Prop.: 1330 kHz

0.5 kW-D, 1 kW-N
0.5 kW-D, 5 kW-N

DA-2
DA-2

A. Station WHOT

<u>Bearing</u> (°T)	<u>Present</u> <u>Radiation</u> (mV/m)	<u>Proposed</u> <u>Radiation</u> (mV/m)	<u>Conductivity Basis</u> (mmhos/m)
	<u>/1</u>	<u>/1</u>	<u>/2</u>
*6.3	570	1385.4	4 1st 19.3 mi.; M-3 Rem.
16.3	555	1320.3	4 1st 19.3 mi.; M-3 Rem.
32	450	959.8	3.5 1st 19.8 mi.; M-3 Rem.
*42	350	604.9	3.5 1st 19.8 mi.; M-3 Rem.
52	210	253.0	3.5 1st 19.8 mi.; M-3 Rem.
67.5	25	82.5	5 1st 17.7 mi.; M-3 Rem.
*77.5	30	46.3	5 1st 17.7 mi.; M-3 Rem.
*92	46	46.3	6 1st 17.6 mi.; M-3 Rem.
102	96	47.6	6 1st 17.6 mi.; M-3 Rem.
114	125	147.3	5 1st 17.8 mi.; M-3 Rem.
*124	132	138.8	5 1st 17.8 mi.; M-3 Rem.
133	124.5	102.1	5 1st 17.8 mi.; M-3 Rem.
141	100	132.5	5 1st 17.8 mi.; M-3 Rem.
*150	55	155.0	5 1st 17.8 mi.; M-3 Rem.
160	35	110.5	5 1st 17.8 mi.; M-3 Rem.
176.3	45	49.5	6 1st 18.5 mi.; M-3 Rem.
*186.3	49	74.7	6 1st 18.5 mi.; M-3 Rem.
*206.3	35	62.9	5 1st 16.1 mi.; M-3 Rem.
216.3	49	134.2	5 1st 16.1 mi.; M-3 Rem.
227	86	151.0	M-3 Throughout
238	125	104.0	5 1st 17.1 mi.; M-3 Rem.
*248	130	135.6	5 1st 17.1 mi.; M-3 Rem.
258	125	149.8	5 1st 17.1 mi.; M-3 Rem.
270.1	90	51.8	5 1st 20 mi.; M-3 Rem.
*280.1	46	45.5	5 1st 20 mi.; M-3 Rem.
289	49	30.0	5 1st 20 mi.; M-3 Rem.
297	49	58.5	4 1st 18 mi.; M-3 Rem.

TABLE I
(Continued)

<u>Bearing</u> (°T)	<u>Present</u> <u>Radiation</u> (mV/m)	<u>Proposed</u> <u>Radiation</u> (mV/m)	<u>Conductivity Basis</u> (mmhos/m)
	^{/1}	^{/1}	^{/2}
*306.3	25	80.3	4 1st 18 mi.; M-3 Rem.
316.3	160	139.2	4 1st 18 mi.; M-3 Rem.
326	300	434.7	4 1st 18.8 mi.; M-3 Rem.
*336	410	803.6	4 1st 18.8 mi.; M-3 Rem.
346	500	1117.4	4 1st 18.8 mi.; M-3 Rem.
356.3	555	1320.3	4 1st 19.3 mi.; M-3 Rem.
<u>Additional Bearings For Proposed Array Only</u>			
23 (LongRad.)	---	1203.7	3 1st 72.5 mi.
62.5	---	72.1	M-3 Throughout
82	---	27.7	5 1st 17.7 mi.; M-3 Rem.
98	---	31.6	6 1st 17.6 mi.; M-3 Rem.
118	---	156.1	5 1st 17.8 mi.; M-3 Rem.
172	---	38.6	M-3 Throughout
201	---	38.6	5 1st 16.1 mi.; M-3 Rem.
224	---	155.4	M-3 Throughout
255	---	156	5 1st 17.1 mi.; M-3 Rem.
274	---	31.6	5 1st 20 mi.; M-3 Rem.
291	---	27.9	M-3 Throughout
304	---	83.2	4 1st 18 mi.; M-3 Rem.
310	---	72	4 1st 18 mi.; M-3 Rem.

Where not shown, the radial was used.
* Indicates measured radial

^{/1} Present WHOT radiation based on the measured horizontal plane radiation pattern contained in the 1963 night-time Proof of Performance. Proposed WHOT radiation based on the horizontal plane standard radiation pattern (See Figure 1).

^{/2} Measured values of soil conductivity contained in the 1963 nighttime Proof of Performance were employed $\pm 10^\circ$ from the measured radial with soil conductivities from F.C.C. Figure M-3 used beyond the measured data and at intermediate bearings.

TABLE I
(Continued)

Station

/3

Field strength measurements to a distance of 72.5 miles were made on daytime operation of Station WKBN Youngstown, Ohio (570 kHz 5 kW-U DA-N) to determine terminal conductivity over path toward WRIE, Erie, Pennsylvania. The WKBN site is only approximately one mile from WHOT nighttime site and at the distances involved, is over substantially the same path as the bearing from the WHOT nighttime site toward WRIE. Accordingly, this terminal conductivity was employed to demonstrate non-overlap of the proposed WHOT nighttime groundwave contour with the WRIE N.I.F. contour (See Figure 10).

Wherever possible, the distances to the groundwave contours were read directly from the field strength versus distance graphs after adjustment for the proper values of radiation.

Where more than one soil conductivity obtained along a given radial route, the equivalent distance method of computation was used.

	412	7 1st
2. WTRM Erie	412	10 1st
Missouri	412	10 1st
	381	8 1st
	381	8 1st
	381	10 1st
	381	8 1st
	381	10 1st
	381	8 1st
	381	10 1st
	381	7 1st
	381	8 1st

TABLE I
(Continued)

B. Other Stations Pertinent to Nighttime Allocation Study

Station	Bearing (°T)	Radiation (mV/m)	Conductivity Basis (mmhos/m)
<u>1. WJPS, Evansville, Indiana</u>			
	*18	104	10 1st 16 mi.; M-3 Rem.
	*56.5	20	10 1st 14.5 mi.; M-3 Rem.
	*95	169	10 1st 19 mi.; M-3 Rem.
	*126	119	8 1st 19 mi.; M-3 Rem.
	*161	298	8 1st 19.5 mi.; M-3 Rem.
	*198	414	8 1st 14 mi.; M-3 Rem.
	*225	374	6 1st 15.5 mi.; M-3 Rem.
	*259	81	8 1st 18.5 mi.; M-3 Rem.
	*270	20	8 1st 19 mi.; M-3 Rem.
	*301	153	7 1st 16.5 mi.; M-3 Rem.
	*328	22	10 1st 18.5 mi.; M-3 Rem.
<u>2. KFH, Wichita, Kansas</u>			
	*22	216	20 1st 17 mi.; M-3 Rem.
	*35	148	40 1st 16.5 mi.; M-3 Rem.
	*49	203	40 1st 16.3 mi.; M-3 Rem.
	LR54	223	20 1st 160 mi.
	*69	272	40 1st 17.3 mi.; M-3 Rem.
	*LR99	157	18 1st 177 mi.
	122	280	M-3 Throughout
	*LR145	590	13 1st 165 mi.
	*175	880	30 1st 16.7 mi.; M-3 Rem.
	LR189	822	17.5 1st 178 mi.
	LR234	440	10 1st 144 mi.
	*249	410	15 1st 15.4 mi.; M-3 Rem.
	*264	430	15 1st 17 mi.; M-3 Rem.
	LR279	520	20 1st 203 mi.
	*300	700	20 1st 17.5 mi.; M-3 Rem.
	*LR325	830	20 1st 180 mi.
	*355	620	30 1st 16 mi.; M-3 Rem.
<u>3. WTRX, Flint Michigan</u>			
	*0	412	7 1st 20 mi.; M-3 Rem.
	*10	425	10 1st 18.5 mi.; M-3 Rem.
	*35	380	8 1st 19.5 mi.; M-3 Rem.
	*45	343	8 1st 21 mi.; M-3 Rem.
	*65	245	10 1st 18 mi.; M-3 Rem.
	*90	71	8 1st 21 mi.; M-3 Rem.
	*105	60	10 1st 21.5 mi.; M-3 Rem.
	*125	71	7 1st 20.5 mi.; M-3 Rem.
	*130	71	8 1st 18 mi.; M-3 Rem.
	289	21	3 1st
	320	51	M-3 Throughout
	340	11	3 1st

Table I
(Continued)

Station	Bearing (°T)	Radiation (mV/m) ^{/3}	Conductivity Basis (mmhos/m) ^{/4}
	*163	50	6 1st 20.5 mi.; M-3 Rem.
	*173	57	6 1st 20.5 mi.; M-3 Rem.
	*190	70	8 1st 20.3 mi.; M-3 Rem.
	*247	70	15 1st 20.5 mi.; M-3 Rem.
	*255	75	15 1st 20 mi.; M-3 Rem.
	*275	60	15 1st 20 mi.; M-3 Rem.
	*286	50	12 1st 21.3 mi.; M-3 Rem.
	*315	220	7 1st 19.5 mi.; M-3 Rem.
	*345	370	8 1st 19.5 mi.; M-3 Rem.
4. WPOW/WEVD New York, N.Y.	10	805	M-3 Throughout
	*28	950	4 1st 20 mi.; M-3 Rem.
	*52	1050	2 1st 20 mi.; M-3 Rem.
	*80	1000	7 1st 20 mi.; M-3 Rem.
	*155	145	5 1st 19 mi.; M-3 Rem.
	180	187	M-3 Throughout
	210	122	M-3 Throughout
	*232.5	115	4 1st 20 mi.; M-3 Rem.
	250	123	M-3 Throughout
	*268.5	155	3 1st 18 mi.; M-3 Rem.
	*292	190	3 1st 17 mi.; M-3 Rem.
	330	230	M-3 Throughout
	*350	560	3 1st 20 mi.; M-3 Rem.
5. WRIE, Erie, Pennsylvania boyden, Pa.	*6	1100	3 1st 12.3 mi.; M-3 Rem.
	*30	950	3 1st 14.8 mi.; M-3 Rem.
	*52	510	3 1st 17.9 mi.; M-3 Rem.
	*83	34	3 1st 20.2 mi.; M-3 Rem.
	*105	28	3 1st 19.4 mi.; M-3 Rem.
	135	102	M-3 Throughout
	*163	32	4 1st 19 mi.; M-3 Rem.
	*174	45	2 1st 20 mi.; M-3 Rem.
	*186	84	3 1st 10.5 mi.; M-3 Rem.
	*195	52	3 1st 15.8 mi.; M-3 Rem.
	*208	32	4 1st 18.5 mi.; M-3 Rem.
	*240	102	3 1st 19.8 mi.; M-3 Rem.
	*266	30	3 1st 19.8 mi.; M-3 Rem.
	*289.5	21	3 1st 13.2 mi.; M-3 Rem.
	320	510	M-3 Throughout
	*346	1000	3 1st 13.1 mi.; M-3 Rem.

TABLE I
(Continued)

<u>Station</u>	<u>Bearing</u> (°T)	<u>Radiation</u> (mV/m)	<u>Conductivity Basis</u> (mmhos/m)
		^{/3}	^{/4}
6. WFBC, Greenville, S. C.	*0	280	1 1st 19 mi.; M-3 Rem.
	*30	185	1 1st 20.5 mi.; M-3 Rem.
	*43	175	2 1st 21 mi.; M-3 Rem.
	*80	560	1.7 1st 19 mi.; M-3 Rem.
	*100	785	M-3 Throughout
	*124	870	2 1st 19.8 mi.; M-3 Rem.
	*150	780	1.5 1st 19.8 mi.; M-3 Rem.
	*185	320	2.2 1st 20 mi.; M-3 Rem.
	*210	175	2 1st 19.5 mi.; M-3 Rem.
	*235	285	2 1st 19.5 mi.; M-3 Rem.
	*270	170	1.8 1st 18.5 mi.; M-3 Rem.
	*304	160	1 1st 18 mi.; M-3 Rem.
	*325	170	1 1st 13.5 mi.; M-3 Rem.
	340	200	M-3 Throughout
7. WBTV, Danville, Virginia	*0	32	3 1st 15 mi.; M-3 Rem.
	*39	19	3 1st 16 mi.; M-3 Rem.
	*95	320	5 1st 14 mi.; M-3 Rem.
	*137	400	4 1st 15 mi.; M-3 Rem.
	*191.5	250	3 1st 12.5 mi.; M-3 Rem.
	210	154	M-3 Throughout
	*235	16	3 1st 18 mi.; M-3 Rem.
	*260	30	M-3 Throughout
	*280	13	3 1st 11.5 mi.; M-3 Rem.
	*317	36	3.5 1st 17.5 mi.; M-3 Rem.
8. WHBL, Sheboygan, Wisc.	0	392	M-3 Throughout
	*13	400	14 1st 9.6 mi.; M-3 Rem.
	*50	340	30 1st 5.3 mi.; M-3 Rem.
	*90	115	30 1st 7.7 mi.; M-3 Rem.
	*128	95	10 1st 6.7 mi.; M-3 Rem.
	*160	80	7 1st 7.5 mi.; M-3 Rem.
	*193	95	15 1st 20 mi.; M-3 Rem.
	*228	80	10 1st 19.5 mi.; M-3 Rem.
	*258	100	7 1st 19.5 mi.; M-3 Rem.
	*282	80	6 1st 19.7 mi.; M-3 Rem.
	*327	300	8 1st 20 mi.; M-3 Rem.

TABLE I
(Continued)

- * Indicates measured radial, Proof of Performance
- LR Indicates long radial measurements
- /3 Radiation values based on measured horizontal plane patterns.
- /4 Measured values of soil conductivity contained in the respective license files at the Commission were employed with conductivities from FCC Figure M-3 used beyond the measured data and at appropriate intermediate bearings.

Wherever possible, the distance to the contours were read directly from the field strength versus distance graphs after adjustment for the proper power.

In all instances, the equivalent distance method of computation was employed where more than one conductivity value obtained along a given radial route.

TABLE II-A

Night Limits From Proposed WHOT Operation To Full-Time Stations on 1330 kHz

LOCATION	Campbell, Ohio
CALL	WHOT
LATITUDE	40° 58' 26"
LONGITUDE	80° 35' 18"
POWER	0.5 kW-D, 5 kW-N
HOURS OF OPERATION	U
FREQUENCY	1330 kHz
DA -	2

CALL	LIMIT	LIMIT SQUARE	RUNNING SQUARE	RSS
WFBC	7.545	56.93	56.93	
WPOW	5.346	28.58	85.51	
WRIE	5.179	26.82	112.33	10.6

REMARKS
Radiation values from proposed WHOT based on standard pattern.

	KFAC Los Angeles, California	WFTF Fort Pierce Florida	WMLT Dublin, Georgia	WJPS Evansville, Indiana	KWWL Waterloo, Iowa	KFH Wichita, Kansas	KVOL Lafayette, Louisiana	WHET Waltham, Massachusetts	WTRX Flint, Michigan	WLOL Minneapolis Minnesota	WJPR Greenville, Mississippi
DISTANCE, MILES	2107	934.2	594.6	424.4	610.3	916.7	980.6	490.4	209.3	690.9	775.3
MID-POINT LATITUDE °	39.0	34.2	36.8	39.6	41.9	39.6	35.7	41.8	42.0	43.1	37.3
BEARING, ° TRUE	269.2	179.2	192.9	243.9	283.6	261.2	224.5	75.7	312.3	297.3	230.9
RAD. ON GND., mV/m	60.0	60.6	62.4	113.2	45.9	132.4	155.2	57.7	78.9	60.2	135.7
MIN. - MAX. $\angle \gamma \Delta \theta^\circ$	0	2.33	6.42	10.4	6.49	2.50	1.89	8.59	22.4	5.20	4.06
	0	5.55	11.48	17.5	11.07	5.77	4.98	14.77	35.1	9.20	7.77
MAX. RAD. WITHIN $\Delta \theta$, mV/m	60.0	59.1	51.2	108.9	45.1	131.9	154.8	53.8	56.2	58.7	133.6
SKYWAVE FIELD, $\mu\text{V/m}$	4.60	36.6	92.7	138.0	89.2	38.5	31.8	118.6	234.2	72.7	57.9
LIMIT, mV/m	0.055	0.432	0.950	3.006	0.804	1.016	0.986	1.276	2.632	0.854	1.547

TABLE II-A
(Continued).

DISTANCE, MILES	MID-POINT LATITUDE °	BEARING, ° TRUE	RAD. ON GND., mv/m	MIN. - MAX. \angle $\Delta\theta$ °	MAX. RAD. WITHIN $\Delta\theta$, mv/m	SKYWAVE FIELD, μ v/m	LIMIT, mv/m				
KGAK Gallup, New Mexico	1566	335.4	2111	76.0	499.2	434.5	1399	308.0	411.1	1447	1485
WPOW/WEVD New York, New York	39.1	40.8	45.2	41.5	37.4	37.9	36.8	38.8	42.4	42.8	47.0
KPOK Portland Oregon	265.A	93.0	292.7	22.2	169.9	193.9	249.7	168.0	299.8	284.5	308.5
WRIE Erie, Pennsylvania	97.1	44.6	32.6	1221.2	42.4	59.0	144.2	52.0	73.9	44.1	74.5
WLAT Conway, S. C.	0	13.8	0	50.0	8.38	10.1	0	15.1	10.8	0	0
WFBC Greenville, S. C.	0	22.6	0	64.3	14.45	17.1	0.28	24.7	18.2	0	0
KVKM Monahans Texas	97.1	40.6	32.6	21.7	67.7	46.6	144.2	95.4	67.2	44.1	74.5
WBTM Danville, Virginia	9.08	169.4	2.97	367.3	116.2	134.8	12.4	180.9	142.2	9.37	10.6
WHBL Sheboygan Wisconsin	0.176	1.376	0.019	1.592	1.574	1.256	0.359	3.450	1.911	0.083	0.158
KOVE Lander Wyoming											
CKKR Rosetown, Sask.											

DISTANCE, MILES										
MID-POINT LATITUDE °										
BEARING, ° TRUE										
RAD. ON GND., mv/m										
MIN. - MAX. $\angle \Delta \theta$ °										
MAX. RAD. WITHIN $\Delta \theta$, mv/m										
SKYWAVE FIELD, μ v/m										
LIMIT, mv/m										
1533	1589	1857	1901	1636	1739	1478	1902	1239	1597	
KEWQ Monclova Coah.	XEAJ Saltillo Coah.	XEBO Irapuato Gto.	XEAH Juchitan, Oax.	XERP Cd. Madew Tams.	XEUZ Martinez de la Torre, Ver.	XEFC Merida, Yuc.	XEUAS Culican, Sin.	CMCB Havana, Cuba	HIDB Santiago, Dom. Rep.	
34.4	33.6	31.2	28.9	31.9	30.8	31.1	33.6	32.0	30.3	
237.1	233.7	227.2	211.7	223.1	218.7	203.7	243.4	185.3	155.7	
106.3	121.3	150.5	99.9	155.3	145.7	46.6	106.9	74.4	137.6	
0	0	0	0	0	0	0	0	0	0	
106.3	121.3	150.5	99.9	155.3	145.7	46.6	106.9	74.4	137.6	
9.69	8.92	6.16	5.81	8.32	7.21	10.7	5.81	17.1	8.81	
0.206	0.216	0.185	0.116	0.258	0.210	0.100	0.124	0.255	0.242	

TABLE II-B

DETAILED NIGHT LIMIT COMPUTATIONS TO CRITICAL FULL-TIME STATIONS ON 1330 kHz

LOCATION	Campbell, Ohio
CALL	WHOT
LATITUDE	40° 58' 26"
LONGITUDE	80° 35' 18"
POWER	0.5 kW-D, 5 kW-N
HOURS OF OPERATION	U
FREQUENCY	1330 kHz
DA - 2	

CALL	LIMIT	LIMIT SQUARE	RUNNING SQUARE	RSS

REMARKS
Radiation values from proposed WHOT based on standard pattern. Radiation values from other stations based on measured horizontal plane patterns.
* Enters RSS Limit

WJPR Greenville, MS

WHET Waltham, MA

WLAT Conway, SC

	WJPS Evansville, IN	KFH Wichita, KS	KWL Waterloo, IA	Proposed WHOT Campbell, OH		WPOW New York, NY	WFBC Greenville, SC	Proposed WHOT Campbell, OH		WFBC Greenville, SC	WBTM Danville, VA	Proposed WHOT Campbell, OH
DISTANCE, MILES	373.8	459.1	629.2	775.3		197.0	793.5	490.4		203.6	191.7	499.2
MID-POINT LATITUDE °	35.7	35.6	37.9	37.3		41.5	38.7	41.8		34.4	35.2	37.4
BEARING, ° TRUE	211.9	128.5	173.4	230.9		49.7	45.9	75.7		109.0	173.8	169.9
RAD. ON GND., mV/m	406.0	360.0	340.0	135.7		1043	185.0	57.7		840	289	42.4
MIN. - MAX. $\angle \Delta \theta^\circ$	12.1 20.2	9.39 16.00	6.17 10.60	4.06 7.77		23.8 36.8	3.84 7.49	8.59 14.77		23.0 35.9	24.4 37.6	8.38 14.45
MAX. RAD. WITHIN $\Delta \theta$, mV/m	378.7	340.7	339.6	133.6		619.4	182.4	53.8		597.0	233.1	67.7
SKYWAVE FIELD, $\mu\text{V}/\text{m}$	154.9	127.4	85.1	57.9		242.7	55.0	118.6		238.0	246.4	116.2
LIMIT, mV/m	*11.732	*8.681	5.780	1.547		*30.065	2.006	1.276		*28.417	11.487	1.574

RSS = 14.594 mV/m

RSS = 30.065 mV/m

RSS = 28.417 mV/m

TABLE II-C

DETAILED NIGHT LIMIT COMPUTATIONS TO POINTS ON THE PERIPHERY OF THE WJPS NIGHT INTERFERENCE-FREE CONTOUR

LOCATION	Campbell, Ohio
CALL	WHOT
LATITUDE	40° 58' 26"
LONGITUDE	80° 35' 18"
POWER	0.5 kW-D, 5 kW-N
HOURS OF OPERATION	U
FREQUENCY	1330 kHz
DA -2	

CALL	LIMIT	LIMIT SQUARE	RUNNING SQUARE	RSS

REMARKS
Radiation values from proposed WHOT based on standard pattern. Radiation values from other stations based on measured horizontal plane radiation patterns.
*Enters RSS Limit

WJPS Point 1

WJPS Point 2

	KFH Wichita, Kansas	WFBC Greenville, SC	Pres.WHOT Campbell, Ohio	KVOL Lafayette, Louisiana	Prop.WHOT Campbell, Ohio		WFBC Greenville, SC	KFH Wichita, Kansas	Pres.WHOT Campbell, Ohio	KVOL Lafayette, Louisiana	Prop.WHOT Campbell, Ohio
DISTANCE, MILES	529.3	365.1	418.0	605.2	418.0		353.1	537.6	415.5	601.0	415.5
MID-POINT LATITUDE °	38.0	36.5	39.6	34.2	39.6		36.5	38.0	39.6	34.2	39.6
BEARING, ° TRUE	83.6	310.3	244.6	24.0	244.6		310.0	84.6	243.0	25.1	243.0
RAD. ON GND., mV/m	230.0	160.0	129.5	153.0	116.8		160.0	226.0	128.0	151.0	109.3
MIN. - MAX. $\angle \Delta \theta$ °	7.70 13.42	12.5 20.7	10.6 17.8	6.58 11.20	10.6 17.8		13.0 21.4	7.52 13.15	10.7 18.0	6.66 11.32	10.7 18.0
MAX. RAD. WITHIN $\Delta \theta$, mV/m	205.2	139.6	121.4	147.8	112.5		138.4	202.3	120.0	145.7	104.8
SKYWAVE FIELD, $\mu\text{V}/\text{m}$	108.4	158.0	140.0	90.4	140.0		162.5	106.3	140.8	91.3	140.8
LIMIT, mV/m	*4.448	*4.412	*3.398	2.671	*3.150		*4.497	*4.302	*3.379	2.660	2.951

Pres. RSS = 7.127 mV/m
 Prop. RSS = 7.012 mV/m

Pres. RSS = 7.082 mV/m
 Prop. RSS = 6.223 mV/m

WJPS Point 3

WJPS Point 4

Pres. RSS = 6.947 mV/m
Prop. RSS = 6.141 mV/m

Pres.	RSS = 7.080 mV/m
Prop.	RSS = 6.249 mV/m

TABLE II-D

DETAILED NIGHT LIMIT COMPUTATIONS TO POINTS ON THE PERIPHERY OF THE KFH NIGHT INTERFERENCE-FREE CONTOUR

LOCATION	Campbell, Ohio
CALL	WHOT
LATITUDE	40° 58' 26 "
LONGITUDE	80° 35' 18 "
POWER	0.5 kW-D, 5 kW-N
HOURS OF OPERATION	U
FREQUENCY	1330 kHz
DA - 2	

CALL	LIMIT	LIMIT SQUARE	RUNNING SQUARE	RSS

REMARKS
Radiation values from proposed WHOT based on standard pattern. Radiation values from other U.S. stations based on measured horizontal plane patterns. Radiation from XEWQ based on notified antenna efficiency.
*Enters RSS limit

KFH Point 1

KFH Point 2

DISTANCE, MILES

MID-POINT LATITUDE °

BEARING, ° TRUE

RAD. ON GND., mV/m

MIN. - MAX. $\angle \Delta \theta^\circ$ MAX. RAD. WITHIN $\Delta \theta$, mV/mSKYWAVE FIELD, $\mu\text{V/m}$

LIMIT, mV/m

KFAC Los Angeles California	WFBC Greenville, SC	WHBL Sheboygan, Wisconsin	WLOL Minneapolis Minnesota	Prop. WHOT Campbell, Ohio		WFBC Greenville, SC	KFAC Los Angeles California	WHBL Sheboygan, Wisconsin	Pres. WHOT Campbell, Ohio	Prop. WHOT Campbell, Ohio
1226	835.1	618.2	510.2	892.3		811.6	1247	608.7	874.5	874.5
36.5	36.7	41.0	41.5	39.8		36.6	36.5	40.9	39.7	39.7
70.6	289.7	234.0	203.7	262.3		289.3	71.2	231.9	261.3	261.3
455.0	160.0	81.0	46.7	124.2		160.0	452.0	80.0	117.0	131.7
0 2.21	3.36 6.88	6.35 10.87	8.12 14.06	2.74 6.09		3.63 7.22	0 1.98	6.52 11.11	2.93 6.33	2.93 6.33
455.0	158.4	80.0	46.0	123.6		158.2	452.0	78.9	116.3	131.0
17.5	48.9	87.5	113.3	41.4		52.3	16.8	89.6	43.6	43.6
*1.592	*1.549	*1.400	1.042	1.023		*1.654	*1.514	*1.414	1.015	1.142

RSS = 2.626 mV/m

RSS = 2.651 mV/m

TABLE II-D (Cont.)

KFH Point 3

DISTANCE, MILES	WFBC Greenville, SC	KFAC Los Angeles, California	WHBL Sheboygan, Wisconsin	XEWQ Monclova, Coahuila	Prop. WHOT Campbell, Ohio		KFAC Los Angeles, California	WFBC Greenville, SC	XEWQ Monclova, Coahuila	WHBL Sheboygan, Wisconsin	Prop. WHOT Campbell, Ohio
MID-POINT LATITUDE °	809.7	1239	638.0	777.1	891.3		1207	833.3	719.5	694.7	937.4
BEARING, ° TRUE	36.3	36.2	40.6	32.2	39.5		35.8	36.0	31.8	40.3	39.1
RAD. ON GND., mv/m	286.6	72.9	229.8	20.0	259.1		75.2	282.9	19.4	228.6	256.8
MIN. - MAX. \angle $\Delta\theta$ °	160.0	442	80.0	96.5	145.0		434.0	160.0	96.5	80.0	153.5
MAX. RAD. WITHIN $\Delta\theta$, mv/m	3.65 7.25	0 2.06	6.02 10.38	4.04 7.74	2.76 6.10		0.05 2.42	3.38 6.90	4.79 8.71	5.14 9.11	2.30 5.51
SKYWAVE FIELD, μ v/m	158.4	442	79.0	96.1	144.3		434.0	158.9	96.0	79.3	153.0
LIMIT, mv/m	52.6	17.0	83.3	57.6	41.5		18.3	49.1	67.4	72.0	36.2
	*1.665	*1.506	*1.316	1.107	1.198		*1.585	*1.561	*1.294	1.141	1.108

RSS = 2.602 mV/m

RSS = 2.574 mV/m

KFH Point 5

DISTANCE, MILES MID-POINT LATITUDE ° BEARING, ° TRUE RAD. ON GND., mv/m MIN. - MAX. $\angle \Delta\theta$ ° MAX. RAD. WITHIN $\Delta\theta$, mv/m SKYWAVE FIELD, μ v/m LIMIT, mv/m	KFAC Los Angeles, California	WFBC Greenville, SC	XEWQ Monclova, Coahuila	WHBL Sheboygan, Wisconsin	Prop. WHOT Campbell, Ohio		KFAC Los Angeles, California	WHBL Sheboygan, Wisconsin	WFBC Greenville, SC	WLWL Minneapolis, Minnesota	Prop. WHOT Campbell, Ohio
	1160	889.0	755.8	691.6	963.7	1	1155	668.9	906.8	534.2	958.7
	36.2	36.4	32.2	40.7	39.5		36.5	41.1	36.8	41.6	39.9
	72.3	286.3	14.2	234.8	261.1		69.9	238.6	289.2	211.2	264.1
	445.0	160.0	96.5	81.0	133.1		460.0	83.0	160.0	53.5	108.9
	0.40 2.93	2.78 6.14	4.31 8.09	5.19 9.18	2.05 5.19		0.44 2.98	5.53 9.67	2.60 5.90	7.60 13.26	2.09 5.25
	445.0	159.1	96.1	80.3	132.7		460.0	82.2	159.1	52.8	108.6
	20.2	41.8	61.1	72.6	33.5		20.4	77.0	39.7	107.2	34.0
	*1.795	*1.330	*1.174	1.166	0.889		*1.876	*1.266	*1.262	1.131	0.738

KFH Point 6

RSS = 2.524 mV/m

RSS = 2.591 mV/m

TABLE II-D(Cont.)

KFH Point 7

	KFAC Los Angeles, California	WHBL Sheboygan, Wisconsin	WFBC Greenville, SC	WLOL Minneapolis Minnesota	Prop.WHOT Campbell, Ohio						
DISTANCE, MILES	1208	612.1	864.7	485.8	903.4						
MID-POINT LATITUDE °	36.8	41.3	37.0	41.8	40.1						
BEARING, °TRUE	68.8	237.9	291.7	207.7	265.0						
RAD. ON GND., mV/m	470.0	83.0	160.0	50.0	100.5						
MIN. - MAX. $\angle \Delta \theta^\circ$	0.04 2.40	6.46 11.03	3.03 6.46	8.70 14.95	2.63 5.95						
MAX. RAD. WITHIN $\Delta \theta$, mV/m	470.0	82.0	158.6	49.1	100.1						
SKYWAVE FIELD, $\mu\text{V/m}$	18.1	88.8	44.9	119.9	40.1						
LIMIT, mV/m	*1.705	*1.457	*1.423	1.178	0.803						

RSS = 2.656 mV/m

DISTANCE, MILES											
MID-POINT LATITUDE °											
BEARING, °TRUE											
RAD. ON GND., mV/m											
MIN. - MAX. $\angle \Delta \theta^\circ$											
MAX. RAD. WITHIN $\Delta \theta$, mV/m											
SKYWAVE FIELD, $\mu\text{V/m}$											
LIMIT, mV/m											

TABLE II-E

DETAILED NIGHT LIMIT COMPUTATIONS TO POINTS ON THE PERIPHERY OF THE WTRX NIGHT INTERFERENCE-FREE CONTOUR

LOCATION	Campbell, Ohio
CALL	WHOT
LATITUDE	40° 58' 26 "
LONGITUDE	80° 35' 18 "
POWER	0.5 kW-D, 5 kW-N
HOURS OF OPERATION	U
FREQUENCY	1330 kHz
DA	-2

CALL	LIMIT	LIMIT SQUARE	RUNNING SQUARE	RSS

REMARKS
Radiation values from proposed WHOT based on standard pattern. Radiation values from others based on measured horizontal plane patterns.
*Enters RSS limit

WTRX Point 1

WTRX Point 2

DISTANCE, MILES

MID-POINT LATITUDE °

BEARING, ° TRUE

RAD. ON GND., mV/m

MIN. - MAX. $\Delta\theta$ MAX. RAD. WITHIN $\Delta\theta$, mV/mSKYWAVE FIELD, $\mu\text{V/m}$

LIMIT, mV/m

WFBC Greenville, SC	WPOW New York, New York	WHBL Sheboygan, Wisconsin	Pres.WHOT Campbell, Ohio	Prop.WHOT Campbell, Ohio		WFBC Greenville, SC	WPOW New York, New York	Pres.WHOT Campbell, Ohio	WHBL Sheboygan, Wisconsin	Prop.WHOT Campbell, Ohio
579.0	518.7	208.2	218.8	218.8		581.8	516.8	218.8	210.6	218.8
39.0	42.0	43.5	42.1	42.1		39.0	42.0	42.1	43.5	42.1
353.9	293.6	98.9	315.2	315.2		354.2	294.1	316.3	97.9	316.3
255.0	187.0	87.0	137.0	117.2		257.0	185.0	153.0	89.0	139.2
6.71 11.92	7.93 13.77	22.5 35.2	21.5 33.8	21.5 33.8		6.66 11.84	7.97 13.84	21.5 33.8	22.3 34.9	21.5 33.8
262.9	177.3	72.2	73.1	60.2		264.7	175.3	82.6	74.0	65.9
96.3	111.1	234.9	228.0	228.0		95.7	111.6	228.0	233.3	228.0
*5.064	*3.941	*3.394	3.334	2.745		*5.066	*3.913	*3.768	*3.453	3.005

RSS = 7.259 mV/m

Pres.RSS = 7.428 mV/m
Prop.RSS = 7.273 mV/m

TABLE II-E (Cont.)

WTRX Point 3

DISTANCE, MILES	WFBC Greenville, SC	WPOW New York, New York	Pres.WHOT Campbell, Ohio	WHBL Sheboygan, Wisconsin	Prop.WHOT Campbell, Ohio	WFBC Greenville, SC	WPOW New York, New York	Prop.WHOT Campbell, Ohio	WHBL Sheboygan, Wisconsin	Pres.WHOT Campbell, Ohio
MID-POINT LATITUDE °	575.8	510.0	211.2	216.9	211.2	569.0	504.7	204.1	221.8	204.1
BEARING, ° TRUE	39.0	41.9	42.1	43.5	42.1	39.0	41.9	42.0	43.4	42.0
RAD. ON GND., mv/m	354.7	293.7	316.3	99.0	316.3	354.9	293.1	315.7	100.5	315.7
MIN. - MAX. \angle $\Delta\theta$ °	259.0	187.0	153.0	87.0	139.2	259.0	188.0	144.0	83.0	126.8
MAX. RAD. WITHIN $\Delta\theta$, mv/m	6.77	8.13	22.2	21.7	22.2	6.90	8.25	23.0	21.2	23.0
SKYWAVE FIELD, μ V/m	12.01	14.07	34.8	34.0	34.8	12.20	14.26	35.8	33.4	35.8
LIMIT, mv/m	267.0	176.8	78.9	73.3	63.0	267.2	177.5	70.3	70.6	58.0
	97.1	113.4	233.0	229.2	233.0	98.7	114.8	237.7	226.1	237.7
	*5.183	*4.011	*3.676	*3.359	2.936	*5.273	*4.076	*3.344	3.192	2.757

Pres.RSS = 7.514 mV/m
Prop.RSS = 7.364 mV/m

WTRX Point 5

DISTANCE, MILES	WFBC Greenville, SC	WPOW New York, New York	WHBL Sheboygan, Wisconsin	Prop.WHOT Campbell, Ohio	WFBC Greenville, SC	WPOW New York, New York	WHBL Sheboygan, Wisconsin	Prop.WHOT Campbell, Ohio
MID-POINT LATITUDE °	560.0	508.7	217.5	202.8	558.5	514.0	212.3	206.1
BEARING, ° TRUE	38.9	41.8	43.3	42.0	38.9	41.8	43.3	41.9
RAD. ON GND., mv/m	354.1	291.8	103.4	312.3	353.5	291.4	104.5	310.7
MIN. - MAX. \angle $\Delta\theta$ °	257.0	190	80.5	100.0	253.0	190.0	80.0	72.2
MAX. RAD. WITHIN $\Delta\theta$, mv/m	7.07	8.16	21.6	23.1	7.10	8.03	22.1	22.8
SKYWAVE FIELD, μ V/m	12.47	14.12	33.9	36.0	12.51	13.93	34.6	35.5
LIMIT, mv/m	265.7	179.8	68.2	47.0	261.7	180.1	67.2	58.5
	100.8	113.7	228.8	238.6	101.2	112.3	232.2	236.3
	*5.357	*4.089	3.120	2.241	*5.296	*4.046	3.121	2.765

Pres.RSS = 7.457 mV/m
Prop.RSS = 6.665 mV/m

WTRX Point 6

RSS = 6.739 mV/m

RSS = 6.665 mV/m

TABLE II-E (Cont.)

WTRX Point 7

	WFBC Greenville, SC	WPOW New York New York	WHBL Sheboygan, Wisconsin	Prop.WHOT Campbell, Ohio						
DISTANCE, MILES	562.8	520.4	205.8	212.7						
MID-POINT LATITUDE °	38.9	41.8	43.3	42.0						
BEARING, ° TRUE	352.9	291.6	104.0	310.5						
RAD. ON GND., mV/m	250.0	190.0	80.0	72.0						
MIN. - MAX. $\angle \Delta \theta$ °	7.02 12.38	7.89 13.71	22.8 35.5	22.1 34.6						
MAX. RAD. WITHIN $\Delta \theta$, mV/m	258.5	180.4	66.5	59.5						
SKYWAVE FIELD, μ V/m	100.2	110.7	236.5	231.9						
LIMIT, mV/m	*5.179	*3.993	3.146	2.760						

RSS = 6.540 mV/m

WTRX Point 8

	WFBC Greenville, SC	WPOW New York, New York	WHBL Sheboygan, Wisconsin	WJPS Evansville, Indiana	Prop.WHOT Campbell, Ohio					
DISTANCE, MILES	573.1	523.9	202.5	400.4	219.8					
MID-POINT LATITUDE °	39.0	41.9	43.4	40.6	42.0					
BEARING, ° TRUE	353.0	292.8	101.2	28.6	312.5					
RAD. ON GND., mV/m	250.0	190.0	82.0	99.0	80.6					
MIN. - MAX. $\angle \Delta \theta$ °	6.82 12.08	7.82 13.60	23.1 36.0	11.2 18.7	21.4 33.6					
MAX. RAD. WITHIN $\Delta \theta$, mV/m	258.1	180.5	67.7	85.8	57.1					
SKYWAVE FIELD, μ V/m	97.7	109.8	238.8	145.7	227.4					
LIMIT, mV/m	*5.043	*3.964	*3.234	2.502	2.597					

RSS = 7.184 mV/m

TABLE II-F

Detailed Night Limit Computations to Points on the Periphery of the WPOW Night Interference-Free Contour

LOCATION	Campbell, Ohio
CALL	WHOT
LATITUDE	40° 58' 26 "
LONGITUDE	80° 35' 18 "
POWER	0.5 kW-D, 5 kW-N
HOURS OF OPERATION	U
FREQUENCY	1330 kHz
DA -	2

CALL	LIMIT	LIMIT SQUARE	RUNNING SQUARE	RSS

REMARKS
Radiation values from proposed WHOT based on standard pattern. Radiation from other stations based on measured horizontal plane patterns.
* Enters RSS Limit

WPOW Point 1

WPOW Point 2

DISTANCE, MILES

MID-POINT LATITUDE °

BEARING, ° TRUE

RAD. ON GND., mV/m

MIN. - MAX. $\angle \Delta \theta$ °MAX. RAD. WITHIN $\Delta \theta$, mV/mSKYWAVE FIELD, $\mu\text{V/m}$

LIMIT, mV/m

WFBC Greenville, South Carolina	Present WHOT Campbell, Ohio		Proposed WHOT Campbell, Ohio			WFBC Greenville, South Carolina	Present WHOT Campbell, Ohio		Proposed WHOT Campbell, Ohio	
617.2	344.0		344.0			619.9	360.6		360.6	
37.9	41.0		41.0			37.8	40.8		40.8	
45.5	89.5		89.5			47.5	91.7		91.7	
181.0	46.0		46.5			190.0	46.0		46.6	
6.37	13.4		13.4			6.33	12.7		12.7	
10.90	22.0		22.0			10.83	21.0		21.0	
174.4	41.2		42.9			182.3	41.9		43.1	
87.7	166.0		166.0			87.1	159.7		159.7	
*3.059	1.367		1.424			*3.178	1.337		1.377	

RSS = 3.059 mV/m

RSS = 3.178 mV/m

TABLE II-F
(Continued)

WPOW Point 3

WFBC Greenville, S. C.	Present WHOT Campbell, Ohio	WJPS Evansville, Indiana	Proposed WHOT Campbell, Ohio	WFBC Greenville, S. C.	Present WHOT Campbell, Ohio	WJPS Evansville, Indiana	Proposed WHOT Campbell, Ohio
594.2	341.0	738.5	341.0	589.0	330.0	728.9	330.0
37.7	40.7	39.4	40.7	37.7	40.8	39.5	40.8
47.3	94.5	73.1	94.5	46.3	93.9	72.6	93.9
189.0	67.0	113.0	40.7	185.0	64.0	112.0	42.4
6.43	13.5	4.53	13.5	6.52	14.0	4.66	14.0
11.50	22.2	8.38	22.2	11.64	23.0	8.55	23.0
181.2	60.2	113.4	37.3	177.5	57.1	112.5	38.6
92.8	167.2	64.0	167.2	94.0	171.6	65.7	171.6
*3.364	*2.014	1.452	1.247	*3.339	*1.960	1.479	1.325

Present RSS = 3.921mV/m
Proposed RSS = 3.364 mV/m

WPOW Point 5

WFBC Greenville, S. C.	Present WHOT Campbell, Ohio	Proposed WHOT Campbell, Ohio	WFBC Greenville, South Carolina	Present WHOT Campbell, Ohio	Proposed Campbell, Ohio
591.5	325.0	325.0	605.2	330.6	330.6
37.8	40.8	40.8	37.9	40.9	40.9
45.5	92.5	92.5	44.9	90.1	90.1
181.0	50.0	45.5	180.0	46.0	47.0
6.48	14.2	14.2	6.58	14.0	14.0
11.57	23.4	23.4	11.21	23.0	23.0
174.2	44.4	41.2	173.3	40.8	42.9
93.5	173.6	173.6	90.4	171.3	171.3
*3.256	1.543	1.430	*3.133	1.399	1.470

WPOW Point 6

Present RSS = 3.872 mV/m
Proposed RSS = 3.339 mV/m

DISTANCE, MILES
 MID-POINT LATITUDE °
 BEARING, ° TRUE
 RAD. ON GND., mV/m
 MIN. - MAX. Δ $\Delta\theta$ °
 MAX. RAD. WITHIN $\Delta\theta$, mV/m
 SKYWAVE FIELD, μ V/m
 LIMIT, mV/m

RSS = 3.256 mV/m

RSS = 3.133 mV/m

TABLE II-G

Detailed Night Limit Computations to Points on the Periphery of the WRIE Night Interference-Free Contour

LOCATION Campbell, Ohio	CALL	LIMIT	LIMIT SQUARE	RUNNING SQUARE	RSS	REMARKS Radiation from proposed WHOT based on standard pattern. Radiation from others based on measured horizontal plane pattern. * Enters RSS Limit
CALL WHOT						
LATITUDE 40° 58' 26"						
LONGITUDE 80° 35' 18"						
POWER 0.5 kW-D, 5 kW-N						
HOURS OF OPERATION U						
FREQUENCY 1330 kHz						
DA - 2						

	WRIE Point 1				WRIE Point 2				
	WFBC Greenville S. C.	WPOW New York, New York	Present WHOT Campbell, Ohio	Proposed WHOT Campbell, Ohio		WFBC Greenville, S. C.	WPOW New York, New York	Present WHOT Campbell, Ohio	Proposed WHOT Campbell, Ohio
DISTANCE, MILES	523.4	321.3	89.3	89.3		521.6	315.9	88.1	88.1
MID-POINT LATITUDE °	38.5	41.4	41.6	41.6		38.5	41.4	41.6	41.6
BEARING, ° TRUE	13.7	292.6	19.7	19.7		14.3	292.3	23.2	23.2
RAD. ON GND., mV/m	291.0	190.0	538.0	1270.2		289.0	190.0	517	1199.4
MIN. - MAX. $\Delta \theta$ °	7.83 13.62	14.4 23.6	45.4 60.2	45.4 60.2		7.87 13.68	14.7 24.0	45.8 60.5	45.8 60.5
MAX. RAD. WITHIN $\Delta \theta$, mV/m	296.7	159.2	51.0	56.5		294.6	158.2	44.9	46.5
SKYWAVE FIELD, μ V/m	109.9	175.2	348.5	348.5		110.4	177.5	350.1	350.1
LIMIT, mV/m	*6.522	*5.579	3.554	3.938		*6.503	*5.616	3.147	3.256
	RSS = 8.583 mV/m					RSS = 8.592 mV/m			

TABLE II-G
(Continued)

WRIE Point 3						WRIE Point 4					
DISTANCE, MILES	MID-POINT LATITUDE °	BEARING, ° TRUE	RAD. ON GND., mv/m	MIN. - MAX. \angle $\Delta\theta$ °	MAX. RAD. WITHIN $\Delta\theta$, mv/m	DISTANCE, MILES	MID-POINT LATITUDE °	BEARING, ° TRUE	RAD. ON GND., mv/m	MIN. - MAX. \angle $\Delta\theta$ °	MAX. RAD. WITHIN $\Delta\theta$, mv/m
WFBC Greenville, South Carolina	WPOW New York, New York	Present WHOT Campbell, Ohio		Proposed WHOT Campbell, Ohio		WFBC Greenville, S. C.	WPOW New York, New York	KWWL Waterloo, Iowa		Proposed WHOT Campbell, Ohio	
517.2	313.3	84.1		84.1		507.5	314.5	629.9		74.3	
38.5	41.3	41.5		41.5		38.4	41.3	42.4		41.5	
14.6	291.5	25.2		25.2		14.4	289.8	89.1		25.5	
288.0	190	502.0		1152.9		288.0	190.0	140.0		1145.5	
7.96	14.8	47.1		47.1		8.18	14.8	6.16		50.6	
13.82	24.2	61.7		61.7		14.16	24.2	10.58		64.8	
293.7	157.9	35.2		32.9		294.0	158.6	131.7		19.0	
111.5	178.6	355.7		355.7		114.0	178.1	85.0		369.8	
*6.549	*5.639	2.504		2.341		*6.705	*5.648	2.239		1.405	

RSS = 8.642 mv/m

RSS = 8.767 mv/m

WRIE Point 5						WRIE Point 6					
DISTANCE, MILES	MID-POINT LATITUDE °	BEARING, ° TRUE	RAD. ON GND., mv/m	MIN. - MAX. \angle $\Delta\theta$ °	MAX. RAD. WITHIN $\Delta\theta$, mv/m	DISTANCE, MILES	MID-POINT LATITUDE °	BEARING, ° TRUE	RAD. ON GND., mv/m	MIN. - MAX. \angle $\Delta\theta$ °	MAX. RAD. WITHIN $\Delta\theta$, mv/m
WFBC Greenville, S. C.	WPOW New York, New York	KWWL Waterloo, Iowa		Proposed WHOT Campbell, Ohio		WFBC Greenville, S. C.	WPOW New York, New York	Present WHOT Campbell, Ohio		Proposed WHOT Campbell, Ohio	
507.0	321.3	623.0		72.9		516.0	327.5	81.5		81.5	
38.4	41.3	42.4		41.5		38.5	41.4	41.5		41.5	
13.7	289.7	89.1		20.3		13.0	291.2	15.5		15.5	
291.0	190.0	140.0		1257.7		293.0	190.0	557.0		1330.4	
8.19	14.4	6.27		51.2		7.99	14.1	48.0		48.0	
14.18	23.6	10.75		65.3		13.87	23.2	62.5		62.5	
297.2	160.0	131.4		19.2		299.1	160.7	37.6		37.4	
114.2	175.2	86.5		372.0		111.8	172.6	359.3		359.3	
*6.787	*5.605	2.272		1.428		*6.690	*5.549	2.704		2.688	

RSS = 8.802 mv/m

RSS = 8.692 mv/m

TABLE II-G
(Continued)

WRIE Point 7

DISTANCE, MILES

MID-POINT LATITUDE °

BEARING, ° TRUE

RAD. ON GND., mV/m

MIN. - MAX. $\Delta \theta$ °

MAX. RAD. WITHIN $\Delta \theta$, mV/m

SKYWAVE FIELD, μ V/m

LIMIT, mV/m

WFBC Greenville, S. C.	WPOW New York, New York	Present WHOT Campbell, Ohio		Proposed WHOT Campbell, Ohio						
520.7	325.0	86.3		86.3						
38.5	41.4	41.6		41.6						
13.3	292.1	17.3		17.3						
292.0	190.0	548.0		1306.7						
7.89	14.2	46.4		46.4						
13.71	23.4	61.1		61.1						
297.9	160.1	46.3		49.6						
110.6	173.6	352.6		352.6						
*6.590	*5.559	3.267		3.498						

RSS = 8.622 mV/m

DISTANCE, MILES

MID-POINT LATITUDE °

BEARING, ° TRUE

RAD. ON GND., mV/m

MIN. - MAX. $\Delta \theta$ °

MAX. RAD. WITHIN $\Delta \theta$, mV/m

SKYWAVE FIELD, μ V/m

LIMIT, mV/m

TABLE II-H

DETAILED NIGHT LIMIT COMPUTATIONS TO POINTS ON THE PERIPHERY OF THE WFBC NIGHT INTERFERENCE-FREE CONTOUR

LOCATION	Campbell, Ohio
CALL	WHOT
LATITUDE	40° 58' 26"
LONGITUDE	80° 35' 18"
POWER	0.5 kW-D, 5 kW-N
HOURS OF OPERATION	U
FREQUENCY	1330 kHz
DA -2	

CALL	LIMIT	LIMIT SQUARE	RUNNING SQUARE	RSS

REMARKS
Radiation values from proposed WHOT based on standard pattern. Radiation values for other U.S. stations based on measured horizontal plane radiation patterns. Radiation from CMCB based on notified operation according to NARBA agreement.
*Enters RSS Limit

WFBC Point 1

WFBC Point 2

	WPOW New York, New York	CMCB Havana, Cuba	KFH Wichita, Kansas	WLAT Conway, SC	Prop. WHOT Campbell, Ohio		WPOW New York, New York	CMCB Havana, Cuba	KFH Wichita, Kansas	WLAT Conway, SC	Prop. WHOT Campbell, Ohio
DISTANCE, MILES	591.1	819.6	845.6	206.2	426.7		589.4	816.9	851.0	200.8	428.3
MID-POINT LATITUDE °	37.8	29.0	36.6	34.4	38.0		37.8	29.0	36.6	34.4	38.0
BEARING, ° TRUE	232.0	359.8	98.5	293.0	194.1		231.4	0.1	98.5	292.8	193.4
RAD. ON GND., mV/m	115.0	175.0	158.0	38.0	58.2		115.0	175.0	158.0	38.0	60.8
MIN. - MAX. $\angle \Delta \theta$	6.49 11.58	3.53 7.10	3.24 6.73	22.8 35.5	10.3 17.4		6.52 11.63	3.57 7.14	3.18 6.65	23.3 36.3	10.3 17.4
MAX. RAD. WITHIN $\Delta \theta$, mV/m	111.8	174.4	153.9	26.8	48.8		111.7	174.4	154.1	26.3	46.9
SKYWAVE FIELD, $\mu\text{V}/\text{m}$	93.5	51.1	47.4	236.2	137.2		93.9	51.5	46.7	240.0	136.7
LIMIT, mV/m	*2.091	*1.782	*1.460	1.266	1.339		*2.099	*1.796	*1.439	1.261	1.279

RSS = 3.111 mV/m

RSS = 3.115 mV/m

TABLE II-H (cont.)

-2-

WFBC Point 3

WPOW New York, New York	CMCB Havana, Cuba	KFH Wichita, Kansas	WLAT Conway, S. C.	Proposed WHOT Campbell, Ohio			WPOW New York, New York	CMCB Havana, Cuba	KFH Wichita, Kansas	Proposed WHOT Campbell Ohio
586.3	813.8	859.0	192.7	429.8			593.4	802.6	863.5	440.6
37.8	29.0	36.5	34.4	37.9			37.7	28.9	36.5	37.9
230.7	0.6	98.6	292.7	192.3			229.9	0.7	99.3	191.9
115.0	175.0	158.0	38.0	64.2			115.0	175.0	157.0	65.8
6.57	3.60	3.10	24.3	10.2			6.45	3.73	3.05	9.91
11.71	7.18	6.54	37.5	17.3			11.52	7.35	6.48	16.79
111.7	174.4	154.3	25.5	44.8			111.8	174.3	153.4	42.5
94.7	51.9	45.6	245.7	136.3			93.0	53.6	45.0	132.9
*2.114	*1.811	*1.408	1.252	1.221			*2.080	*1.869	1.381	1.130

WFBC Point 4

RSS = 3.119 mV/m

RSS = 2.796 mV/m

WFBC Point 5

WPOW New York, New York	CMCB Havana, Cuba	KFH Wichita, Kansas	WHBL Sheboygan, Wisconsin	Proposed WHOT Campbell, Ohio		WPOW New York, New York	CMCB Havana, Cuba	KFH Wichita, Kansas	WHBL Sheboygan, Wisconsin	Proposed WHOT Campbell, Ohio
604.7	801.0	850.3	684.2	445.1		605.6	806.5	842.4	676.7	441.3
37.7	28.9	36.4	39.2	37.8		37.7	28.9	36.5	39.3	37.9
230.7	359.7	99.7	153.8	193.7		231.5	359.2	99.5	154.2	194.7
115.0	175.0	156.0	80.0	59.7		115.0	175.0	156.0	80.0	55.9
6.59	3.75	3.19	5.30	9.78		6.58	3.69	3.28	5.41	9.89
11.22	7.38	6.66	9.34	16.60		11.19	7.29	6.77	9.50	16.76
111.6	174.3	152.1	79.3	44.8		111.7	174.4	151.9	79.2	47.3
90.5	53.9	46.8	74.0	131.6		90.3	53.0	47.9	75.4	132.7
*2.020	*1.878	*1.423	1.173	1.179		*2.016	*1.849	*1.453	1.196	1.255

WFBC Point 6

RSS = 3.104 mV/m

RSS = 3.097 mV/m

TABLE II-H
(Continued)

WFBC Point 7

DISTANCE, MILES

MID-POINT LATITUDE °

BEARING, ° TRUE

RAD. ON GND., mV/m

MIN. - MAX. $\angle \Delta \theta$ °

MAX. RAD. WITHIN $\Delta \theta$, mV/m

SKYWAVE FIELD, $\mu\text{V}/\text{m}$

LIMIT, mV/m

WPOW New York, New York	CMCB Havana, Cuba	KFH Wichita, Kansas	WHBL Sheboygan, Wisconsin	Proposed WHOT Campbell, Ohio						
598.0	815.3	841.6	669.3	432.2						
37.8	29.0	36.5	39.3	37.9						
232.0	359.4	98.8	153.7	194.7						
115.0	175.0	157.0	80.0	55.9						
6.36 11.39	3.58 7.16	3.29 6.78	5.52 9.66	10.2 17.2						
111.9	174.4	152.8	79.2	49.3						
92.0	51.7	48.0	76.9	135.5						
*2.058	*1.804	*1.466	1.218	1.336						

RSS = 3.105 mV/m

DISTANCE, MILES

DISTANCE, MILES

MID-POINT LATITUDE °

BEARING, ° TRUE

RAD. ON GND., mV/m

MIN. - MAX. $\angle \Delta \theta$ °

MAX. RAD. WITHIN $\Delta \theta$, mV/m

SKYWAVE FIELD, $\mu\text{V}/\text{m}$

LIMIT, mV/m

TABLE II-I

Detailed Night Limit Computations to Points on the Periphery of the WBTM Night Interference-Free Contour

LOCATION	Campbell, Ohio
CALL	WHOT
LATITUDE	40° 58' 26"
LONGITUDE	80° 35' 18"
POWER	0.5 kW-D, 5 kW-N
HOURS OF OPERATION	U
FREQUENCY	1330 kHz
DA -	2

CALL	LIMIT	LIMIT SQUARE	RUNNING SQUARE	RSS

REMARKS
Radiation values from proposed WHOT based on standard pattern. Radiation from others based on measured horizontal plane patterns.
* Enters RSS Limit

WBTM Point 1

WBTM Point 2

DISTANCE, MILES

MID-POINT LATITUDE °

BEARING, ° TRUE

RAD. ON GND., mV/m

MIN. - MAX. $\angle \Delta \theta$ °MAX. RAD. WITHIN $\Delta \theta$, mV/mSKYWAVE FIELD, $\mu V/m$

LIMIT, mV/m

WFBC Greenville S. C.	WJPS Evansville, Indiana	WPOW New York, New York		Proposed WHOT Campbell, Ohio		WFBC Greenville, S. C.	WJPS Evansville, Indiana	WPOW New York, New York		Proposed WHOT Campbell, Ohio
208.8	460.0	390.1		306.9		215.1	469.6	385.3		311.0
35.8	37.4	38.6		38.8		35.7	37.4	38.6		38.8
53.2	99.8	227.8		167.7		55.1	99.8	226.5		166.1
220.0	165.0	115.0		53.5		236.0	165.0	115.0		64.3
22.5	9.36	11.5		15.2		21.8	9.11	11.7		14.9
35.1	15.96	19.3		24.7		34.3	15.57	19.5		24.4
124.0	161.3	105.8		95.9		136.8	161.5	105.6		99.4
234.5	127.2	149.2		181.4		230.3	124.4	150.8		179.6
*5.816	*4.104	3.156		3.479		*6.304	*4.020	3.186		3.570

RSS = 7.118 mV/m

RSS = 7.477 mV/m

TABLE 11-1
(Continued)

WBTM Point 3										WBTM Point 4									
DISTANCE, MILES	MID-POINT LATITUDE °	BEARING, ° TRUE	RAD. ON GND., mV/m	MIN. - MAX. \angle $\Delta\theta$ °	MAX. RAD. WITHIN $\Delta\theta$, mV/m	SKYWAVE FIELD, μ V/m	LIMIT, mV/m			DISTANCE, MILES	MID-POINT LATITUDE °	BEARING, ° TRUE	RAD. ON GND., mV/m	MIN. - MAX. \angle $\Delta\theta$ °	MAX. RAD. WITHIN $\Delta\theta$, mV/m	SKYWAVE FIELD, μ V/m	LIMIT, mV/m		
WFBC Greenville, S. C.	WJPS Evansville, Indiana	WPOW New York, New York		Proposed WHOT Campbell, Ohio		WFBC Greenville, S. C.	WJPS Evansville, Indiana	WPOW New York, New York		Proposed WHOT Campbell, Ohio		WFBC Greenville, S. C.	WJPS Evansville, Indiana	WPOW New York, New York		Proposed WHOT Campbell, Ohio			
208.8	468.1	392.4		316.7		201.2	457.7	398.2		312.9		208.8	468.1	392.4		316.7			
35.7	37.3	38.6		38.7		35.7	37.4	38.6		38.8		35.7	37.3	38.6		38.7			
56.1	100.7	226.2		167.0		54.1	100.8	227.5		168.7		56.1	100.7	226.2		167.0			
241.0	163.0	115.0		58.1		226.0	163.0	115.0		47.8		241.0	163.0	115.0		58.1			
22.5	9.15	11.5		14.7		23.3	9.43	11.3		14.9		22.5	9.15	11.5		14.7			
35.1	15.63	19.1		24.0		36.2	16.06	18.8		24.3		35.1	15.63	19.1		24.0			
135.5	159.5	106.0		97.4		121.5	159.3	106.2		93.8		135.5	159.5	106.0		97.4			
234.5	124.9	148.4		177.1		239.7	127.9	146.4		178.8		234.5	124.9	148.4		177.1			
*6.356	*3.984	3.146		3.450		*5.825	*4.074	3.110		3.354		*6.356	*3.984	3.146		3.450			

RSS = 7.501 mV/m

RSS = 7.108 mV/m

WBTM Point 5										WBTM Point 6									
DISTANCE, MILES	MID-POINT LATITUDE °	BEARING, ° TRUE	RAD. ON GND., mV/m	MIN. - MAX. \angle $\Delta\theta$ °	MAX. RAD. WITHIN $\Delta\theta$, mV/m	SKYWAVE FIELD, μ V/m	LIMIT, mV/m			DISTANCE, MILES	MID-POINT LATITUDE °	BEARING, ° TRUE	RAD. ON GND., mV/m	MIN. - MAX. \angle $\Delta\theta$ °	MAX. RAD. WITHIN $\Delta\theta$, mV/m	SKYWAVE FIELD, μ V/m	LIMIT, mV/m		
WFBC Greenville, S. C.	WJPS Evansville, Indiana	WPOW New York, New York		Proposed WHOT Campbell, Ohio		WFBC Greenville, S. C.	WJPS Evansville, Indiana	WPOW New York, New York		Proposed WHOT Campbell, Ohio		WFBC Greenville, S. C.	WJPS Evansville, Indiana	WPOW New York, New York		Proposed WHOT Campbell, Ohio			
204.9	457.2	393.8		307.9		206.8	457.3	391.7		305.9		204.9	457.2	393.8		307.9			
35.7	37.4	38.6		38.8		35.8	37.4	38.6		38.8		35.7	37.4	38.6		38.8			
53.0	100.2	227.9		168.4		52.6	99.9	228.1		168.2		53.0	100.2	227.9		168.4			
219.0	164.0	115.0		49.4		217.0	165.0	115.0		50.5		219.0	164.0	115.0		49.4			
22.9	9.44	11.4		15.1		22.7	9.44	11.5		15.2		22.9	9.44	11.4		15.1			
35.7	16.08	19.1		24.7		35.4	16.08	19.2		24.8		35.7	16.08	19.1		24.7			
121.1	160.3	105.9		94.5		121.7	161.3	105.8		94.9		121.1	160.3	105.9		94.5			
237.2	128.0	147.9		180.9		235.9	128.0	148.6		181.8		237.2	128.0	147.9		180.9			
*5.745	*4.104	3.134		3.419		*5.740	*4.128	3.146		3.451		*5.745	*4.104	3.134		3.419			

RSS = 7.060 mV/m

RSS = 7.070 mV/m

TABLE II-J

Detailed Night Limit Computations to Points on the Periphery of the WHBL Night Interference-Free Contour

LOCATION	Campbell, Ohio	CALL	LIMIT	LIMIT SQUARE	RUNNING SQUARE	RSS	REMARKS Radiation values from proposed WHOT based on standard pattern. Radiation values from other stations based on measured horizontal plane patterns.
CALL	WHOT						
LATITUDE	40° 58' 26"						
LONGITUDE	80° 35' 18"						
POWER	0.5 kW-D, 5 kW-N						
HOURS OF OPERATION	U						
FREQUENCY	1330 kHz						
DA -	2						

	WHBL Point 1					WHBL Point 2					
	WFBC Greenville, S. C.	KFH Wichita, Kansas	WPOW New York, New York	WJPS Evansville, Indiana	Proposed WHOT Campbell, Ohio		KFH Wichita, Kansas	WFBC Greenville, S. C.	WPOW New York, New York	WJPS Evansville, Indiana	Proposed WHOT Campbell, Ohio
DISTANCE, MILES	698.6	663.9	732.6	418.1	423.0		639.9	666.9	726.3	381.7	409.1
MID-POINT LATITUDE °	39.5	41.0	42.5	41.1	42.6		40.7	39.2	42.3	40.8	42.3
BEARING, ° TRUE	337.8	45.3	294.1	359.0	303.1		47.8	336.2	291.2	358.6	298.4
RAD. ON GND., mV/m	194.0	186.0	185.0	87	82.9		195.0	190.0	190.0	86.0	66.8
MIN. - MAX. $\Delta\theta$	5.09	5.61	4.61	10.6	10.4		5.99	5.56	4.70	11.8	10.9
	9.03	9.78	8.48	17.8	17.6		10.34	9.71	8.59	19.7	18.3
MAX. RAD. WITHIN $\Delta\theta$, mV/m	195.0	173.3	181.7	75.1	77.5		180.5	190.4	186.6	71.3	60.2
SKYWAVE FIELD, $\mu\text{V}/\text{m}$	71.2	78.0	65.1	139.9	138.4		82.9	77.4	66.2	152.1	142.8
LIMIT, mV/m	*2.778	*2.702	*2.365	2.103	2.145		*2.993	*2.946	*2.469	2.170	1.719

RSS = 4.540 mV/m

RSS = 4.872 mV/m

TABLE II
(Continued)

WHBL Point 3

DISTANCE, MILES

MID-POINT LATITUDE °

BEARING, ° TRUE

RAD. ON GND., mV/m

MIN. - MAX. $\Delta \theta$ °

MAX. RAD. WITHIN $\Delta \theta$, mV/m

SKYWAVE FIELD, μ V/m

LIMIT, mV/m

KFH Wichita, Kansas	WFBC Greenville, S. C.	WPOW New York, New York	WJPS Evansville, Indiana		Proposed WHOT Campbell, Ohio					
636.9	677.9	737.0	389.6		420.6					
40.8	39.3	42.3	40.9		42.5					
46.7	335.8	291.6	357.3		298.9					
192.0	190.0	190.0	84.0		69.4					
6.04 10.41	5.39 9.47	4.56 8.41	11.5 19.3		10.5 17.7					
177.2	190.1	186.8	69.9		63.2					
83.5	75.2	64.3	149.4		139.1					
*2.960	*2.859	*2.401	2.087		1.758					

RSS = 4.764 mV/m

WHBL Point 4

DISTANCE, MILES

MID-POINT LATITUDE °

BEARING, ° TRUE

RAD. ON GND., mV/m

MIN. - MAX. $\Delta \theta$ °

MAX. RAD. WITHIN $\Delta \theta$, mV/m

SKYWAVE FIELD, μ V/m

LIMIT, mV/m

KFH Wichita, Kansas	WFBC Greenville, S. C.	WPOW New York, New York	WJPS Evansville, Indiana		Proposed WHOT Campbell, Ohio					
648.9	691.3	738.2	405.8		425.2					
40.9	39.4	42.4	41.0		42.5					
45.7	336.6	292.9	357.7		301.0					
187.0	191.0	189.0	85.0		78.4					
5.84 10.12	5.19 9.19	4.54 8.38	11.0 18.4		10.4 17.5					
173.2	191.4	185.8	72.2		72.4					
81.0	72.6	64.1	143.9		137.7					
*2.807	*2.781	*2.381	2.077		1.994					

RSS = 4.613 mV/m

TABLE III

POPULATION AND AREA WITHIN PRESENT AND PROPOSED NIGHT CONTOURS

Station WHOT
WHOT, Inc.
Campbell, Ohio

Pres: 1330 kHz	0.5 kW-D; 1.0 kW-N	DA-2
Prop: <u>1330 kHz</u>	<u>0.5 kW-D; 5.0 kW-N</u>	<u>DA-2</u>

A. Present WHOT(Nighttime)

<u>Contour</u>	<u>Population</u>	<u>Area(sq.mi.)</u>
25 mV/m	54,493	42.0
10.6 (NIF)	163,766	126
4	253,963	301
2.5	349,734	443

B. Proposed WHOT(Nighttime)

1 V/m	70 <u>/1</u>	0.66
25 mV/m	143,836	96
10.6 (NIF)	212,932	203
4	361,496	495
2.5	447,870	791

Population Based on 1970 Census
Population of Campbell, Ohio: 12,577
Areas determined by means of polar planimeter

/1 Based upon information supplied by applicant on
number of dwelling units within contour

TABLE IV

Description of Proposed Nighttime Directional Antenna System

Station WHOT
WHOT, Inc.
Campbell, Ohio

Pres.: 1330 kHz	0.5 kW-D, 1 kW-N	DA-2
<u>Prop.: 1330 kHz</u>	<u>0.5 kW-D, 5 kW-N</u>	<u>DA-2</u>

- a. Number of Elements: - Six (6), five existing towers plus proposed new tower.
- b. Type of Elements: - Uniform cross-section, guyed
- c. Top Loading: - None
- d. Height of each element above insulators: - Proposed Tower No. 1 (S), 360 feet (175.2°). Existing Towers No. 2 through No. 6, 370 feet (180.1°T)
- e. Overall height of each element above ground level: - Proposed Tower No. 1 (S), 366 feet. Existing Towers No. 2 through No. 6, 376 feet
- f. Overall height of each element above mean sea level: - Proposed Tower No. 1 (S), 1526 feet. Existing Tower No. 2 through No. 6, 1536 feet.
- g. Orientation and spacing of elements: - In-line array, spaced 246.5 feet (120°) between adjacent elements on a line bearing 6.3°T

h. Ratio of Fields and Phasing:			
	<u>Tower</u>	<u>Field Ratio</u>	<u>Phase Angle</u>
	1 (S)	0.29	122.5°
	2	0.63	-39.8°
	3	0.99	159.9°
	4	1.00	0.0°
	5	0.80	-153.2°
	6 (N)	0.37	36.6°

TABLE IV
(Continued)

- i. Details of Ground System - 120 radials equally spaced around each tower, each radial 185 feet long except where terminated at copper bus, property boundary and entrance road. In addition, a 24 foot square ground screen at the base of each tower.
- j. Location (Nighttime): - North Latitude: 40° 58' 26"
West Longitude: 80° 35' 18"
- k. Adjustment of Array: - It is proposed to adjust the nighttime array to meet the operating tolerances specified by the standard horizontal plane radiation pattern shown in Figure 1.



$$E = E_1 \left[f(\theta) \cos \phi - R_1 f(\theta) \cos \phi \cos \theta + A_1 - R_2 f(\theta) \cos \phi \cos \theta + A_2 - \right.$$

$$R_3 f(\theta) \cos \phi \cos \theta + A_3 - R_4 f(\theta) \cos \phi \cos \theta + A_4 - R_5 f(\theta) \cos \phi \cos \theta + A_5 -$$

$$R_6 f(\theta) \cos \phi \cos \theta + A_6$$

TABLE V

PROPOSED NIGHTTIME DIRECTIONAL
ANTENNA DESIGN FORMULAE AND DATA

Station WHOT
WHOT, Inc.
Campbell, Ohio

Pres: 1330 kHz

0.5 kW-D; 1 kW-N

DA-2

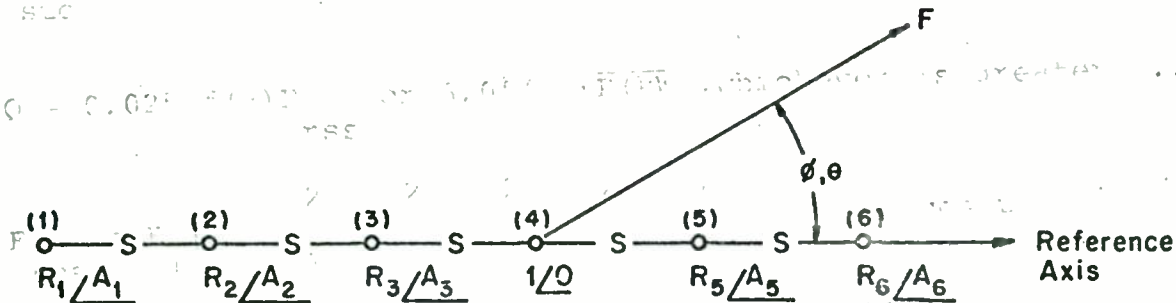
Prop: 1330 kHz

0.5 kW-D; 5 kW-N

DA-2

A. Design Formulae

The distribution of the field strength about a directional array having six elements of unequal height and equally spaced in line as shown, and having field ratios and phase angle relationships as given, may be computed as the vector sum of the fields from the individual towers. Standard formulae expressed in algebraic form for the calculations follow:



$$F = E_1 \left[f(\theta) \frac{1}{0} + R_1 f(\theta) \frac{-3S \cos \phi \cos \theta + A_1}{-2S \cos \phi \cos \theta + A_2} + R_2 f(\theta) \frac{-2S \cos \phi \cos \theta + A_2}{-S \cos \phi \cos \theta + A_3} + R_3 f(\theta) \frac{-S \cos \phi \cos \theta + A_3}{S \cos \phi \cos \theta + A_5} + R_5 f(\theta) \frac{S \cos \phi \cos \theta + A_5}{2S \cos \phi \cos \theta + A_6} + R_6 f(\theta) \frac{2S \cos \phi \cos \theta + A_6}{1} \right]$$

TABLE V

$$f(\theta) = \frac{\cos(G \sin \theta) - \cos G}{(1 - \cos G) \cos \theta} \quad \dots (2)$$

$$R_{\text{loop}} = (R_r + R_a + R_c) \quad \dots (3)$$

$$E_1 = E_0 \left[\frac{R}{r^4} + \frac{2}{M R} + \frac{2}{+M R} + \frac{2}{+M R} + \frac{2}{+R} + \frac{2}{+M R} + \frac{2}{+M R} \right] \dots (4)$$

1 loop 1 2 loop 2 3 loop 3 loop 4 5 loop 5 6 loop 6

$$M_n = R_n \frac{(1 - \cos G_4)}{(1 - \cos G_n)} \quad \dots (5)$$

$$R_c = M_Z \cos(\sigma + u) + \dots \quad \dots (6)$$

$$F_{\text{std}} = 1.05 [F + Q]^{1/2} \quad \dots (7)$$

$$Q = 0.025 f(\theta) F_{\text{rss}} \quad \text{or } 6.0 f(\theta) \sqrt{P(\text{kW})}, \text{ whichever is greater } \dots (8)$$

$$F_{\text{rms}} = E_1 \left[1 + \frac{2}{R_1} + \frac{2}{R_2} + \frac{2}{R_3} + \frac{2}{R_5} + \frac{2}{R_6} + (2R_1 R_2 \cos u_{12} + 2R_2 R_3 \cos u_{23} + 2R_3 R_5 \cos u_{35} + 2R_5 R_6 \cos u_{56} + 2R_1 R_3 \cos u_{13} + 2R_1 R_5 \cos u_{15} + 2R_2 R_5 \cos u_{25} + 2R_2 R_6 \cos u_{26} + 2R_3 R_6 \cos u_{36} + 2R_5 R_6 \cos u_{56}) J_0(S) + (2R_1 R_3 \cos u_{13} + 2R_1 R_5 \cos u_{15} + 2R_2 R_5 \cos u_{25} + 2R_2 R_6 \cos u_{26} + 2R_3 R_6 \cos u_{36} + 2R_5 R_6 \cos u_{56}) J_2(2S) + (2R_1 R_5 \cos u_{15} + 2R_2 R_6 \cos u_{26} + 2R_3 R_6 \cos u_{36} + 2R_5 R_6 \cos u_{56}) J_4(4S) + (2R_1 R_6 \cos u_{16} + 2R_2 R_5 \cos u_{25} + 2R_3 R_5 \cos u_{35} + 2R_5 R_6 \cos u_{56}) J_6(6S) \right]^{1/2} \quad \dots (9)$$

TABLE V

Where:

F	=	resulting inverse field strength at one mile at angles ϕ and θ , mV/m;
$F(\theta)$	=	vertical radiation characteristic of elements;
E_1	=	coupled field intensity of reference element, mV/m;
axis	=	bearing of reference axis of the array, degrees true;
R	=	field ratio of element to reference element;
S	=	spacing of elements, electrical degrees;
A	=	relative phase angle of elements, degrees;
ϕ	=	angular position of the field point to the reference axis in the horizontal plane, degrees;
θ	=	angular position of the field point in the vertical plane referred to the horizontal plane, degrees;
G	=	height of elements, electrical degrees;
E_o	=	field intensity of reference element in horizontal plane operating independently and without loss, mV/m;
R_r	=	loop radiation resistance of element operating independently, ohms;
R_{1a}	=	loop loss resistance estimated for operating conditions, ohms;
R_{2c}	=	coupled loop resistance of element, ohms;
M	=	ratio of currents in elements;
Z	=	mutual impedance (loop) between elements, ohms;
σ	=	phase angle of Z , degrees;
u	=	difference in phase of elements, degrees;
F_{std}	=	standard radiation in mV/m as defined by Section 73.150 of the FCC Rules;
F_{sa}	=	standard augmented radiation in mV/m as defined by Section 73.152 of the FCC Rules;

TABLE V

F_{rms}	=	RMS value of horizontal plane radiation pattern, mV/m;
$F_{rms-std}$	=	RMS value of standard horizontal plane radiation pattern, mV/m;
F_{rss}	=	RSS value of amplitudes of inverse fields of the elements of the array in the horizontal plane, mV/m;
λ	=	wave length, feet;
P	=	power, kW;
Freq	=	frequency, kHz;

These equations assume sinusoidal current distribution in the elements and a perfectly conducting earth in the area; other assumptions are as indicated.

B. Design Parameters

Reference Axis = $6.3^\circ T$	Frequency = 1330 kHz
$G_1 = 360$ feet (175.2°)	$\lambda = 739.5$ feet
$G_2 = G_3 = G_4 = G_5 = G_6 = 370$ feet (180.1°)	$P = 5$ kW
$S = 246.5$ feet (120°)	

$R_1 = 0.29$	$A_1 = 122.5^\circ$
$R_2 = 0.63$	$A_2 = -39.8^\circ$
$R_3 = 0.99$	$A_3 = 159.9^\circ$
$R_4 = 1.00$ (Reference)	$A_4 = 0.0^\circ$ (Reference)
$R_5 = 0.80$	$A_5 = -153.2^\circ$
$R_6 = 0.37$	$A_6 = 36.6^\circ$

TABLE V

The following values were determined from the appropriate graphs, equations and constants:

$$E_o = 528.3 \text{ mV/m for } G = 180.1^\circ \text{ and } P = 5 \text{ kW}$$

$$E_o = 519.4 \text{ mV/m for } G = 175.2^\circ \text{ and } P = 5 \text{ kW}$$

$$R_{r1} = 102.5 \text{ ohms}$$

$$R_{r2} = R_{r3} = R_{r4} = R_{r5} = R_{r6} = 99.5 \text{ ohms}$$

$$R_{a1} = R_{a2} = R_{a3} = R_{a4} = R_{a5} = R_{a6} = 1.0 \text{ ohm}$$

$$Z_{12} = Z_{21} = 57.2 \text{ ohms, } \sigma_{12} = \sigma_{21} = -65.6^\circ$$

$$Z_{23} = Z_{32} = Z_{34} = Z_{43} = Z_{45} = Z_{54} = Z_{56} = Z_{65} = 56.5 \text{ ohms}$$

$$\sigma_{23} = \sigma_{32} = \sigma_{34} = \sigma_{43} = \sigma_{45} = \sigma_{54} = \sigma_{56} = \sigma_{65} = -65.9^\circ$$

$$Z_{13} = Z_{31} = 38.5 \text{ ohms, } \sigma_{13} = \sigma_{31} = 179.8^\circ$$

$$Z_{24} = Z_{42} = Z_{35} = Z_{53} = Z_{46} = Z_{64} = 38.0 \text{ ohms}$$

$$\sigma_{24} = \sigma_{42} = \sigma_{35} = \sigma_{53} = \sigma_{46} = \sigma_{64} = 179.4^\circ$$

$$Z_{14} = Z_{41} = 29.9 \text{ ohms, } \sigma_{14} = \sigma_{41} = 64.4^\circ$$

$$Z_{25} = Z_{52} = Z_{36} = Z_{63} = 29.7 \text{ ohms}$$

$$\sigma_{25} = \sigma_{52} = \sigma_{36} = \sigma_{63} = 63.9^\circ$$

$$Z_{15} = Z_{51} = 24.4 \text{ ohms, } \sigma_{15} = \sigma_{51} = -51.5^\circ$$

$$Z_{26} = Z_{62} = 24.3 \text{ ohms, } \sigma_{26} = \sigma_{62} = -52.1^\circ$$

$$Z_{16} = Z_{61} = 20.5 \text{ ohms, } \sigma_{16} = \sigma_{61} = 191.7^\circ$$

TABLE VC. Computed Values

The following values were computed from the foregoing equations and parameters:

For 1 Ohm Loss Resistance and 5 kW (Nominal) Power

$$E_1 = 628.3 \text{ mV/m}, F_{\text{rms}} = 600.2 \text{ mV/m}$$

$$F_{\text{rss}} = 1130.5 \text{ mV/m}, F_{\text{rms-std}} = 630.9 \text{ mV/m}$$

For 1 Ohm Loss Resistance and 3.47 kW Power *

$$E_1 = 523.4 \text{ mV/m}$$

$$F_{\text{rms}} = 500.0 \text{ mV/m}$$

$$F_{\text{rss}} = 941.8 \text{ mV/m}$$

$$F_{\text{rms-std}} = 525.6 \text{ mV/m}$$

<u>(θ)</u>	<u>G=175.2° f(θ)</u>	<u>G=180.1° f(θ)</u>	<u>(θ)</u>	<u>G=175.2° f(θ)</u>	<u>G=180.1° f(θ)</u>
0°	1.0000	1.0000	35°	0.4980	0.4700
5	0.9861	0.9851	40	0.4001	0.3690
10	0.9454	0.9417	45	0.3109	0.2781
15	0.8812	0.8732	50	0.2331	0.2001
20	0.7983	0.7852	55	0.1681	0.1363
25	0.7027	0.6841	60	0.1160	0.0867
30	0.6006	0.5768	65	0.0762	0.0503

* Power input to the proposed night array will be reduced to achieve the desired theoretical RMS of 500 mV/m (525.6 standard RMS). See text.

TABLE V

Element Number	Operating Loop Resistance	Loop Current	Power
1(S)	23.23 ohms	7.02 Amps.	1146 Watts
2	33.37	6.95	1614
3	26.55	4.43	520
4	19.72	2.04	82
5	27.78	5.62	877
6(N)	-113.86	2.60	-769

Equation (1) with the above constants inserted becomes:

$$F = 523.4 \left[f(\theta) \frac{/0^\circ + 0.29f(\theta)}{4} \frac{,/-360^\circ \cos\phi \cos\theta + 122.5^\circ}{1} + \right.$$

$$0.63f(\theta) \frac{/-240^\circ \cos\phi \cos\theta - 39.8^\circ}{2} +$$

$$0.99 f(\theta) \frac{/-120^\circ \cos\phi \cos\theta + 159.9^\circ}{3} +$$

$$0.80f(\theta) \frac{/120^\circ \cos\phi \cos\theta - 153.2^\circ}{5} +$$

$$0.37f(\theta) \frac{/240^\circ \cos\phi \cos\theta + 36.6^\circ}{6} \left. \right]$$

An example of the computation for $\theta = 33.7^\circ$ ($40^\circ T$) and $\theta = 30^\circ$ is given:

$$F = 523.4 [0.5768 /0^\circ + 0.1742 /-136.878^\circ + 0.3634 /-212.718^\circ +$$

$$0.5710 /73.441^\circ + 0.4614 /-66.741^\circ + 0.2134 /209.518^\circ]$$

$$F = 166.4 \text{ mV/m}$$

$$Q = .025 (0.6006) 941.8 = 14.14$$

$$F_{\text{std}} = 1.05 [(166.4)^2 + (14.14)^2]^{1/2}$$

$$F_{\text{std}} = 175.4 \text{ mV/m}$$

TABLE V

D. Tabulation of Proposed Nighttime Vertical Plane Standard
Radiation Values

TRUE BEARING DEGREES	F.C.C. STANDARD RADIATION AT VERTICAL ANGLES THETA (DEGREES)						
	0.00 MV/M	5.00 MV/M	10.00 MV/M	15.00 MV/M	20.00 MV/M	25.00 MV/M	30.00 MV/M
0.0	1359.63	1323.35	1218.94	1059.07	863.00	653.69	454.17
5.0	1384.34	1347.66	1242.06	1080.22	881.47	668.94	465.91
10.0	1376.54	1339.99	1234.76	1073.54	875.63	664.11	462.19
15.0	1336.18	1300.29	1197.03	1039.07	845.56	639.33	443.15
20.0	1263.14	1228.50	1128.97	977.11	791.80	595.30	409.54
25.0	1157.76	1125.06	1031.27	888.70	715.67	533.51	362.89
30.0	1021.85	991.86	906.05	776.22	619.76	456.61	305.66
35.0	859.80	833.33	757.81	644.22	508.53	368.75	241.51
40.0	679.54	657.35	594.26	500.04	388.74	275.86	175.38
45.0	493.15	475.81	426.72	354.09	269.56	185.74	113.76
50.0	316.59	304.35	269.92	219.70	162.67	108.51	65.81
55.0	169.52	162.28	142.22	113.99	84.16	59.70	45.28
60.0	81.46	79.02	72.69	64.99	58.39	53.45	48.68
65.0	76.91	76.28	74.36	71.02	66.01	59.04	50.12
70.0	82.24	80.93	77.04	70.69	62.18	52.02	41.01
75.0	62.14	60.73	56.65	50.33	42.42	33.80	25.46
80.0	32.23	31.52	29.50	26.60	23.37	20.43	18.17
85.0	34.46	34.22	33.52	32.36	30.76	28.74	26.32
90.0	46.92	46.38	44.78	42.24	38.91	34.98	30.69
95.0	39.18	38.71	37.35	35.18	32.37	29.09	25.57
100.0	35.07	34.58	33.15	30.92	28.12	24.96	21.70
105.0	75.13	73.76	69.82	63.71	56.02	47.46	38.76
110.0	121.81	119.70	113.54	103.91	91.67	77.86	63.57
115.0	151.19	148.84	141.99	131.14	117.10	100.89	83.67
120.0	153.94	151.99	146.23	136.93	124.56	109.75	93.34
125.0	133.44	132.19	128.47	122.35	113.96	103.43	91.03
130.0	107.72	106.63	103.56	98.98	93.35	86.82	79.22
135.0	104.94	102.80	96.84	88.35	79.17	70.97	64.40
140.0	127.33	124.23	115.30	101.69	85.43	69.32	56.37
145.0	149.31	146.25	137.16	122.46	103.27	81.68	60.93
150.0	154.97	152.88	146.29	134.61	117.57	95.96	72.13
155.0	140.80	140.34	138.24	132.68	121.73	104.55	82.26
160.0	110.50	112.02	115.43	117.76	115.37	105.58	88.05
165.0	72.49	75.69	84.18	94.47	101.37	100.30	89.29
170.0	42.10	44.49	53.69	69.12	84.09	91.43	87.28
175.0	44.62	40.81	37.24	48.50	68.00	82.04	83.84

TABLE V

F.C.C. STANDARD RADIATION AT VERTICAL ANGLES THETA (DEGREES)							
TRUE BEARING DEGREES	0.00 MV/M	5.00 MV/M	10.00 MV/M	15.00 MV/M	20.00 MV/M	25.00 MV/M	30.00 MV/M
180.0	63.56	56.38	40.56	37.70	56.58	74.75	80.70
185.0	74.20	66.01	46.27	35.08	51.54	71.29	79.10
190.0	70.72	62.83	44.23	35.71	53.13	72.40	79.62
195.0	54.67	48.65	37.42	41.55	61.33	77.85	82.08
200.0	38.85	38.17	42.41	57.39	75.32	86.43	85.55
205.0	54.16	57.57	67.51	81.11	92.50	95.94	88.54
210.0	90.99	93.48	99.72	106.32	108.79	103.46	89.20
215.0	126.62	127.18	127.89	126.31	119.61	106.00	85.87
220.0	149.97	148.66	144.22	135.41	121.13	101.36	77.83
225.0	154.73	152.07	143.99	130.40	111.75	89.52	66.51
230.0	140.18	136.97	127.59	112.86	94.40	74.76	57.34
235.0	115.04	112.29	104.48	92.98	79.91	67.84	58.75
240.0	102.11	100.59	96.38	90.44	83.91	77.55	71.32
245.0	118.94	117.91	114.91	110.10	103.63	95.53	85.76
250.0	145.41	143.82	139.12	131.43	120.99	108.19	93.57
255.0	156.04	153.84	147.35	136.99	123.41	107.47	90.19
260.0	140.12	137.80	131.05	120.44	106.83	91.32	75.07
265.0	100.53	98.73	93.50	85.36	75.06	63.53	51.71
270.0	52.61	51.70	49.05	44.95	39.82	34.13	28.38
275.0	32.10	31.74	30.71	29.06	26.92	24.42	21.70
280.0	45.36	44.80	43.16	40.55	37.18	33.25	29.03
285.0	42.92	42.50	41.28	39.30	36.63	33.41	29.76
290.0	28.03	27.76	27.01	25.93	24.67	23.32	21.86
295.0	45.62	44.48	41.23	36.32	30.43	24.42	19.20
300.0	74.62	73.16	68.86	62.05	53.29	43.32	33.12
305.0	82.60	81.62	78.63	73.56	66.36	57.22	46.63
310.0	71.90	71.06	68.85	65.82	62.14	57.31	50.64
315.0	113.55	108.85	96.12	79.18	63.14	52.06	45.91
320.0	234.98	225.37	198.48	159.78	116.91	78.20	50.92
325.0	398.97	384.27	342.79	281.81	211.59	143.19	86.35
330.0	582.46	562.74	506.79	423.59	326.01	228.08	142.28
335.0	767.67	743.34	674.05	570.18	446.78	320.63	206.99
340.0	940.44	912.18	831.44	709.62	563.47	411.96	272.89
345.0	1090.70	1059.30	969.38	832.99	668.03	495.18	334.25
350.0	1212.31	1178.58	1081.78	934.33	754.88	565.25	386.78
355.0	1302.28	1266.96	1165.40	1010.24	820.50	618.77	427.42

TABLE V

TRUE BEARING DEGREES	F.C.C. STANDARD RADIATION AT VERTICAL ANGLES THETA (DEGREES)							
	35.00 MV/M	40.00 MV/M	45.00 MV/M	50.00 MV/M	55.00 MV/M	60.00 MV/M		
0.0	283.61	154.08	69.17	25.58	14.36	11.33		
5.0	291.90	159.30	71.92	26.48	14.30	11.33		
10.0	289.27	157.64	71.05	26.19	14.32	11.33		
15.0	275.86	149.22	66.62	24.78	14.42	11.32		
20.0	252.38	134.64	59.13	22.66	14.63	11.27		
25.0	220.21	115.02	49.47	20.52	14.97	11.13		
30.0	181.47	92.09	39.10	19.22	15.36	10.86		
35.0	132.17	68.27	30.15	19.21	15.62	10.39		
40.0	97.34	47.08	25.25	20.09	15.52	9.67		
45.0	61.63	33.63	25.10	20.87	14.83	8.72		
50.0	40.61	31.30	26.79	20.65	13.46	7.61		
55.0	38.84	33.90	27.07	18.91	11.44	6.55		
60.0	42.31	33.94	24.51	15.70	9.17	5.90		
65.0	39.78	29.06	19.29	11.78	7.48	5.99		
70.0	30.15	20.54	13.26	9.05	7.45	6.73		
75.0	18.39	13.46	10.87	9.75	8.87	7.66		
80.0	16.59	15.33	14.00	12.37	10.44	8.38		
85.0	23.55	20.53	17.36	14.22	11.26	8.62		
90.0	26.26	21.91	17.83	14.15	10.97	8.31		
95.0	21.98	18.49	15.25	12.32	9.77	7.60		
100.0	18.54	15.60	12.97	10.67	8.67	6.94		
105.0	30.55	23.32	17.35	12.74	9.39	7.04		
110.0	49.79	37.35	26.83	18.50	12.40	8.28		
115.0	66.56	50.62	36.65	25.19	16.44	10.33		
120.0	76.27	59.56	44.20	30.97	20.38	12.62		
125.0	77.19	62.61	48.18	34.87	23.54	14.74		
130.0	70.24	59.79	48.26	36.50	25.57	16.42		
135.0	58.73	52.56	44.94	35.91	26.37	17.57		
140.0	48.23	43.57	39.31	33.49	26.04	18.15		
145.0	44.97	36.37	32.94	29.87	24.80	18.22		
150.0	49.94	34.21	27.61	25.78	22.95	17.88		
155.0	58.11	37.11	24.87	21.96	20.80	17.24		
160.0	65.28	42.16	25.06	19.02	18.63	16.46		
165.0	69.95	46.99	27.04	17.27	16.69	15.63		
170.0	72.19	50.64	29.46	16.63	15.11	14.87		
175.0	72.77	52.99	31.51	16.66	13.98	14.26		

TABLE V

TRUE BEARING DEGREES	F.C.C. STANDARD RADIATION AT VERTICAL ANGLES THETA (DEGREES)					
	35.00 MV/M	40.00 MV/M	45.00 MV/M	50.00 MV/M	55.00 MV/M	60.00 MV/M
180.0	72.60	54.28	32.87	16.92	13.28	13.84
185.0	72.38	54.77	33.47	17.08	12.99	13.65
190.0	72.46	54.62	33.28	17.02	13.08	13.71
195.0	72.72	53.77	32.31	16.79	13.56	14.01
200.0	72.64	52.01	30.60	16.60	14.47	14.53
205.0	71.38	49.05	28.31	16.82	15.82	15.22
210.0	68.04	44.79	25.96	17.96	17.58	16.02
215.0	62.11	39.66	24.65	20.29	19.66	16.85
220.0	54.13	35.25	25.80	23.72	21.85	17.58
225.0	46.79	34.51	29.93	27.75	23.90	18.08
230.0	45.37	39.36	35.98	31.71	25.50	18.25
235.0	52.72	47.90	42.21	34.84	26.33	17.94
240.0	64.52	56.44	46.90	36.45	26.14	17.09
245.0	74.40	61.81	48.69	36.01	24.74	15.68
250.0	77.84	61.92	46.76	33.27	22.15	13.76
255.0	72.66	55.95	40.97	28.38	18.56	11.52
260.0	59.19	44.63	32.10	22.01	14.46	9.28
265.0	40.44	30.39	22.00	15.46	10.73	7.55
270.0	22.97	18.21	14.26	11.14	8.73	6.86
275.0	18.92	16.19	13.60	11.22	9.08	7.21
280.0	24.74	20.60	16.77	13.35	10.42	7.97
285.0	25.87	21.90	18.04	14.45	11.25	8.52
290.0	20.20	18.25	16.00	13.53	11.00	8.57
295.0	15.46	13.31	12.12	11.08	9.74	8.08
300.0	23.71	16.13	11.22	8.98	8.09	7.22
305.0	35.48	24.88	16.04	10.03	7.23	6.32
310.0	41.98	32.00	22.06	13.67	8.15	5.85
315.0	41.02	34.49	26.12	17.40	10.25	6.14
320.0	37.87	32.63	27.25	19.95	12.47	7.03
325.0	48.21	31.20	25.99	20.93	14.21	8.15
330.0	77.55	38.75	24.70	20.57	15.24	9.21
335.0	117.06	56.64	26.96	19.61	15.63	10.05
340.0	159.69	79.62	34.10	19.06	15.53	10.64
345.0	200.72	103.38	44.05	19.70	15.18	11.01
350.0	236.62	124.97	54.30	21.49	14.80	11.21
355.0	264.83	142.35	63.06	23.73	14.51	11.30

TABLE VI
TABULATION OF FIELD STRENGTH MEASUREMENTS

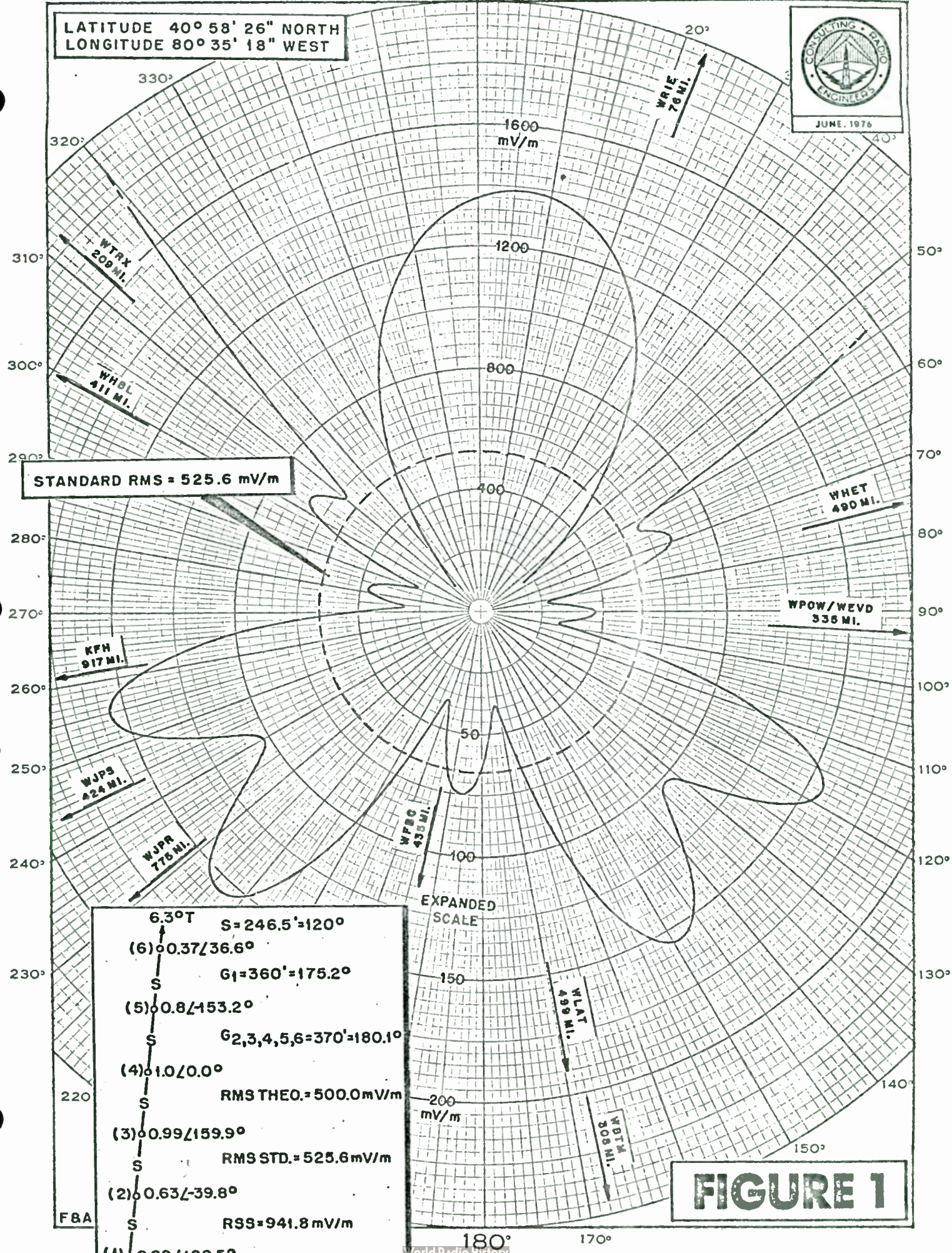
STATION WKBN

23⁰ Radial

<u>Date</u>	<u>Time</u> (EDST)	<u>Point No.</u>	<u>Distance</u> (miles)	<u>Field</u> (mv/m)
June 17, 1976	7:10PM	40	0.295	1,500
"	7:03	39	0.41	1,000
"	6:52	38	0.75	560
"	6:44	37	0.85	500
"	6:37	36	0.92	425
"	6:33	35	1.05	370
"	6:20	34	1.25	310
"	6:11	33	1.34	290
"	6:03	32	1.474	250
"	5:57	31	1.583	230
"	5:50	30	2.20	180
"	5:42	29	2.363	160
"	5:36	28	2.75	125
"	5:29	27	3.70	98
"	5:24	26	4.31	62
"	5:11	25	5.22	62
"	5:04	24	6.23	54
"	5:00	23	6.96	40
"	4:54	22	8.51	34
"	4:45	21	10.01	29
"	4:33	20	12.35	22
"	4:23	19	14.29	16.5
"	4:16	18	16.88	14
"	4:03	17	18.58	13
"	3:51	16	20.28	10
"	3:43	15	23.21	8.6
"	3:37	14	25.79	6.8
"	3:22	13	28.60	6.8
"	3:08	12	30.55	4.5
"	2:56	11	33.08	3.8
"	1:54	10	35.72	3.0
"	1:44	9	37.93	2.5
June 10, 1976	6:07PM	8	44.4	1.8
"	5:56	7	47.8	1.4
"	5:47	6	50.2	1.25
"	5:40	6(A)	51.35	1.10
"	5:32	5	55.1	1.15
"	5:16	4	59.8	0.92
"	4:55	3	65.1	0.68
"	4:45	2	68.5	0.60
"	4:30	1	72.5	0.45

NOTE: Points 7 and 8, taken on June 10, 1976, reconfirmed on June 17, 1976, between 12:00Noon and 1:00PM. Field at each point within 3% of June 10th reading.

LATITUDE 40° 58' 26" NORTH
LONGITUDE 80° 35' 18" WEST



STANDARD RMS = 525.6 mV/m

6.3°T S = 246.5' = 120°
(6) 0.37 / 36.6°
S G1 = 360' = 175.2°
(5) 0.8 / 153.2°
S G2,3,4,5,6 = 370' = 180.1°
(4) 0.10 / 0.0°
S RMS THEO. = 500.0 mV/m
(3) 0.99 / 159.9°
S RMS STD. = 525.6 mV/m
(2) 0.63 / 39.8°
S RSS = 941.8 mV/m
(1) 0.29 / 122.5°

EXPANDED SCALE

FIGURE 1

$\theta = 0^\circ$

$\theta = 0^\circ$

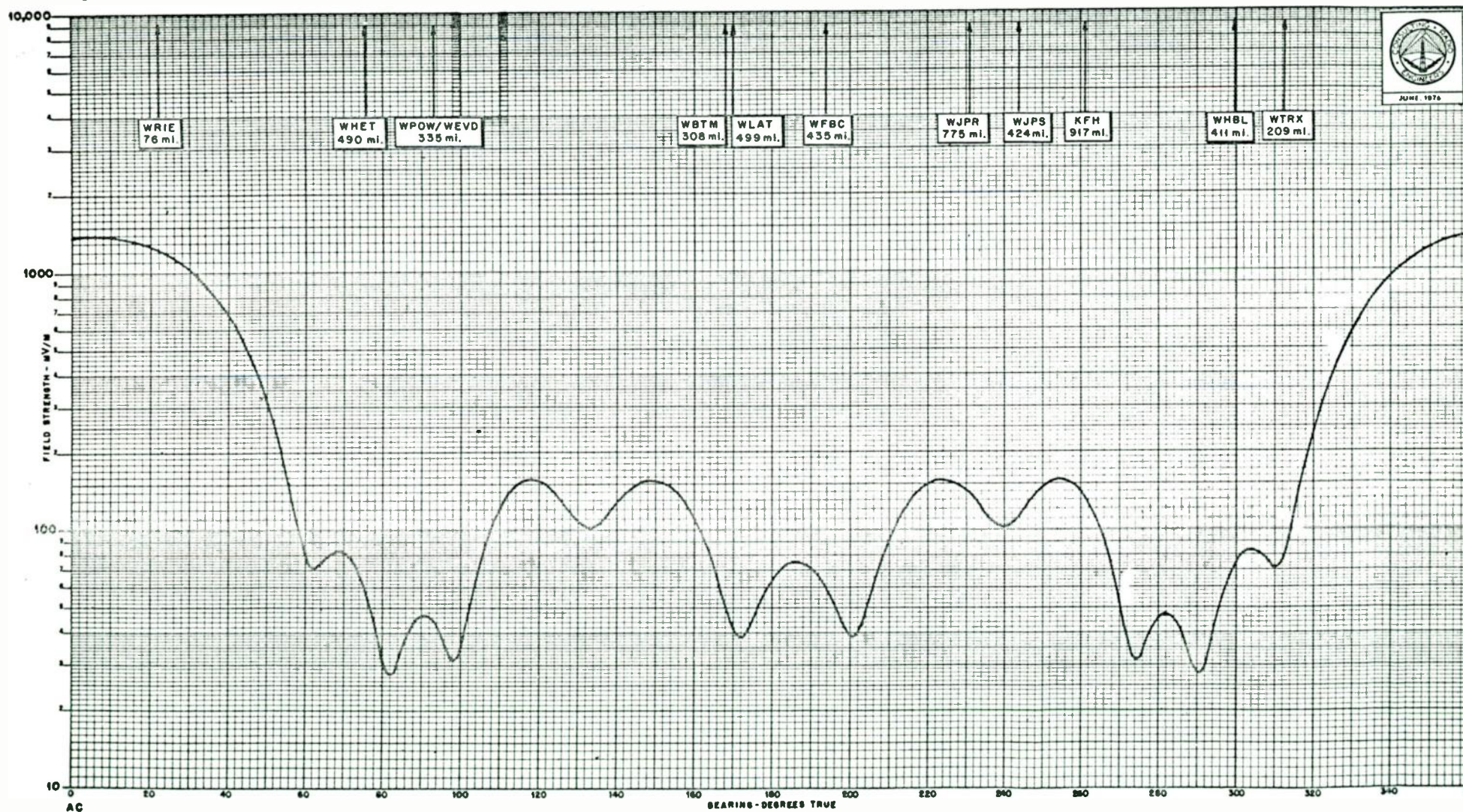


FIGURE 2-A

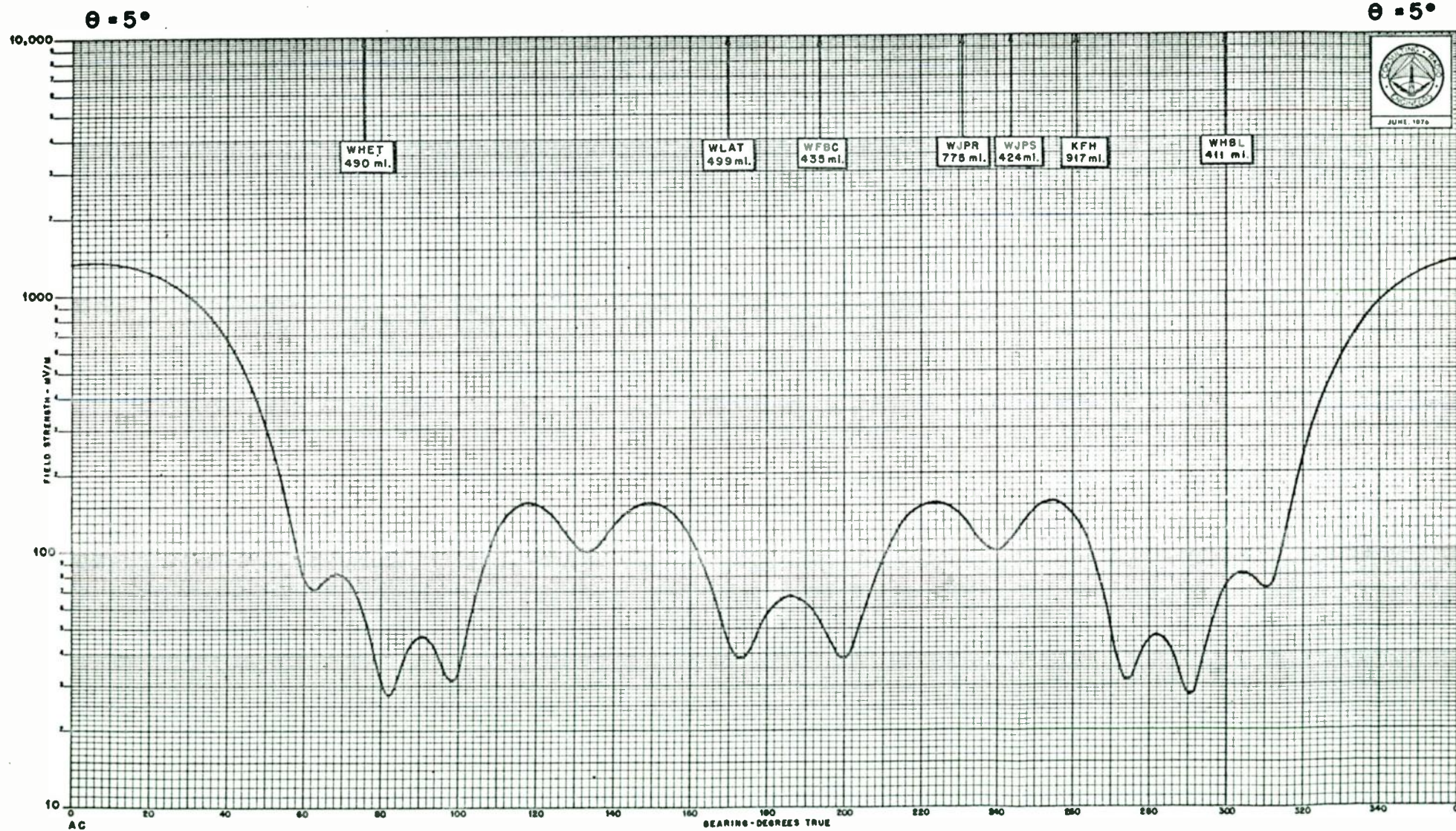


FIGURE 2-B

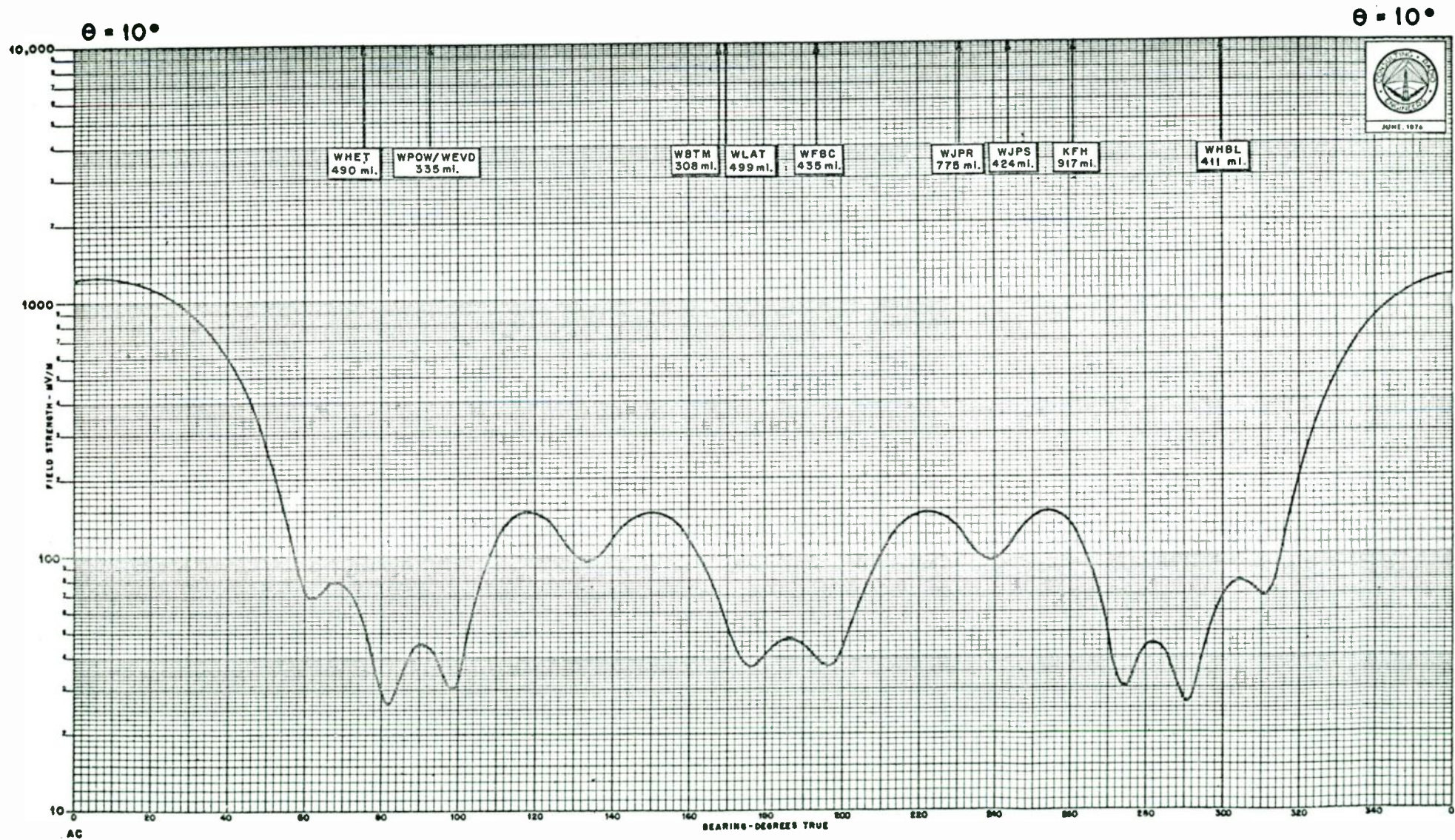


FIGURE 2-C

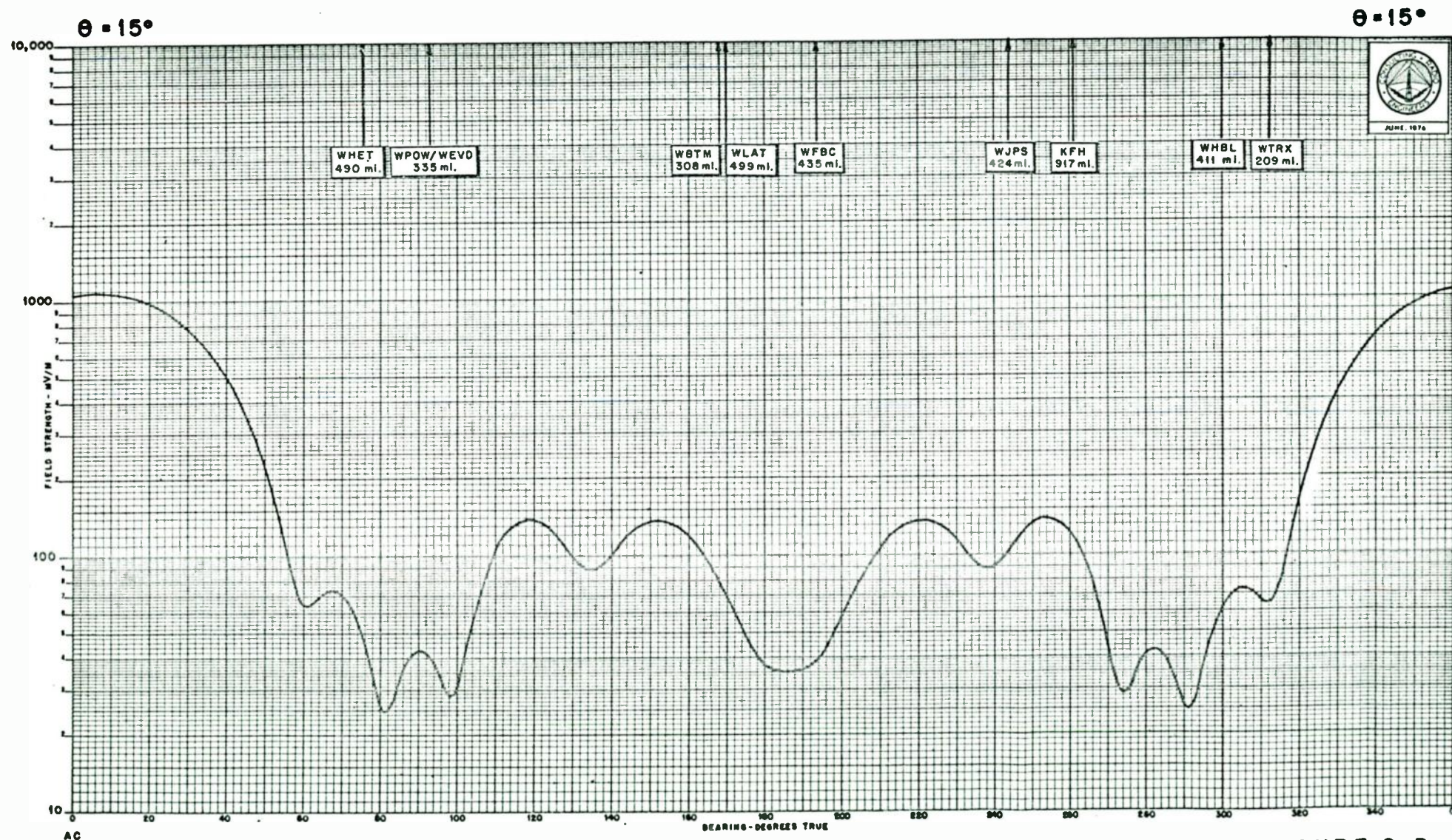


FIGURE 2-D

$\theta = 20^\circ$

$\theta = 20^\circ$

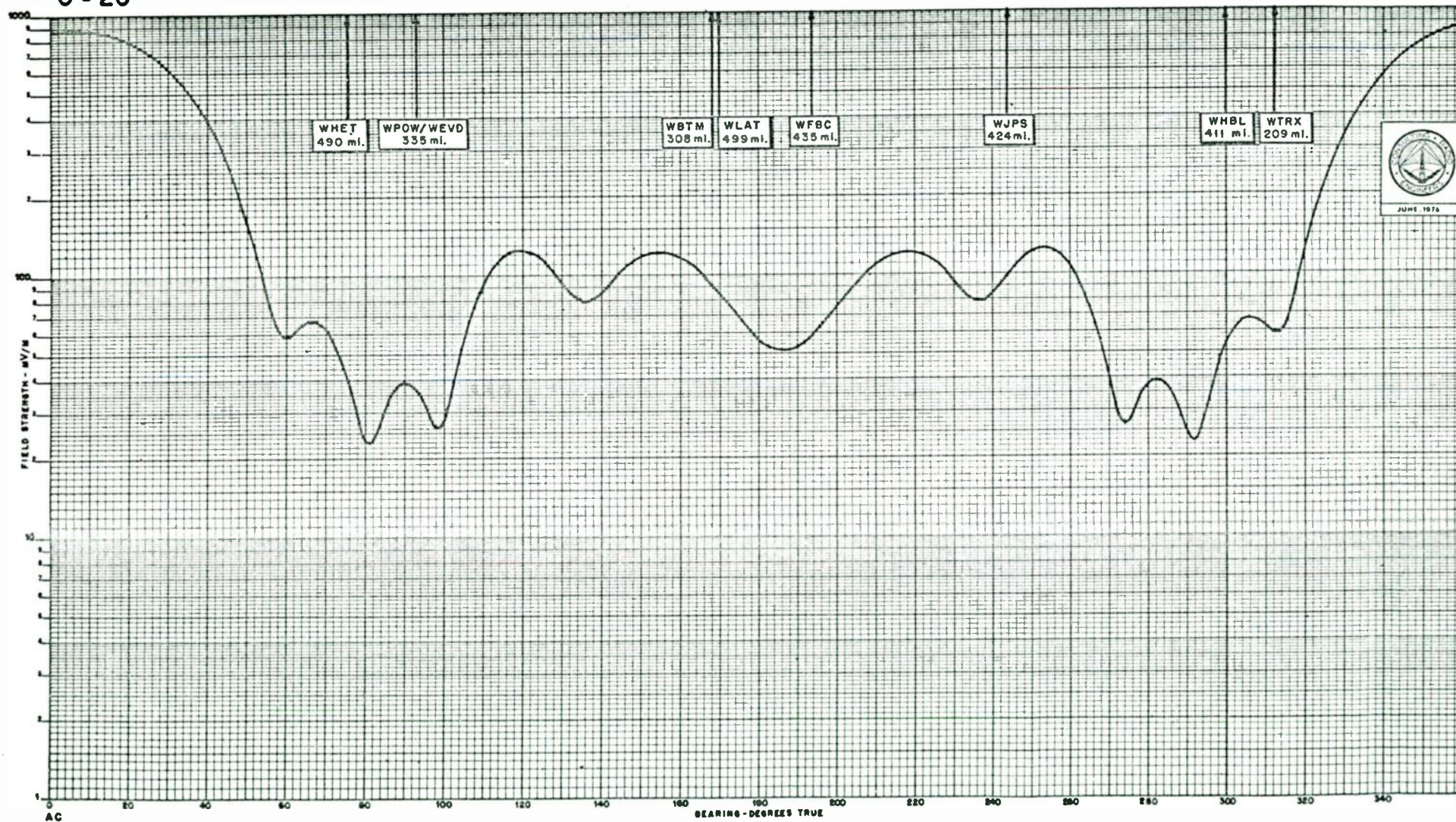


FIGURE 2-E

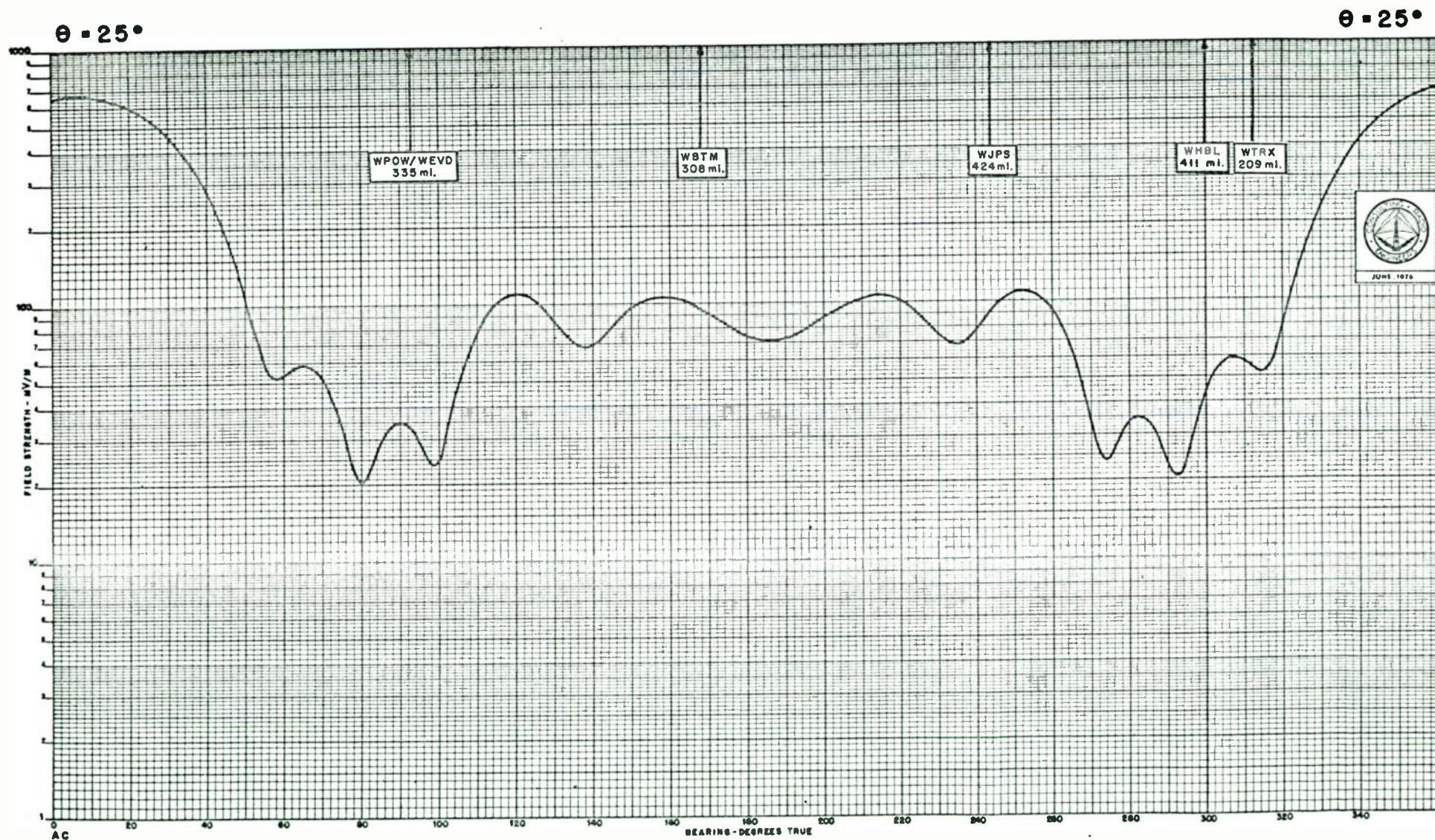


FIGURE 2-F

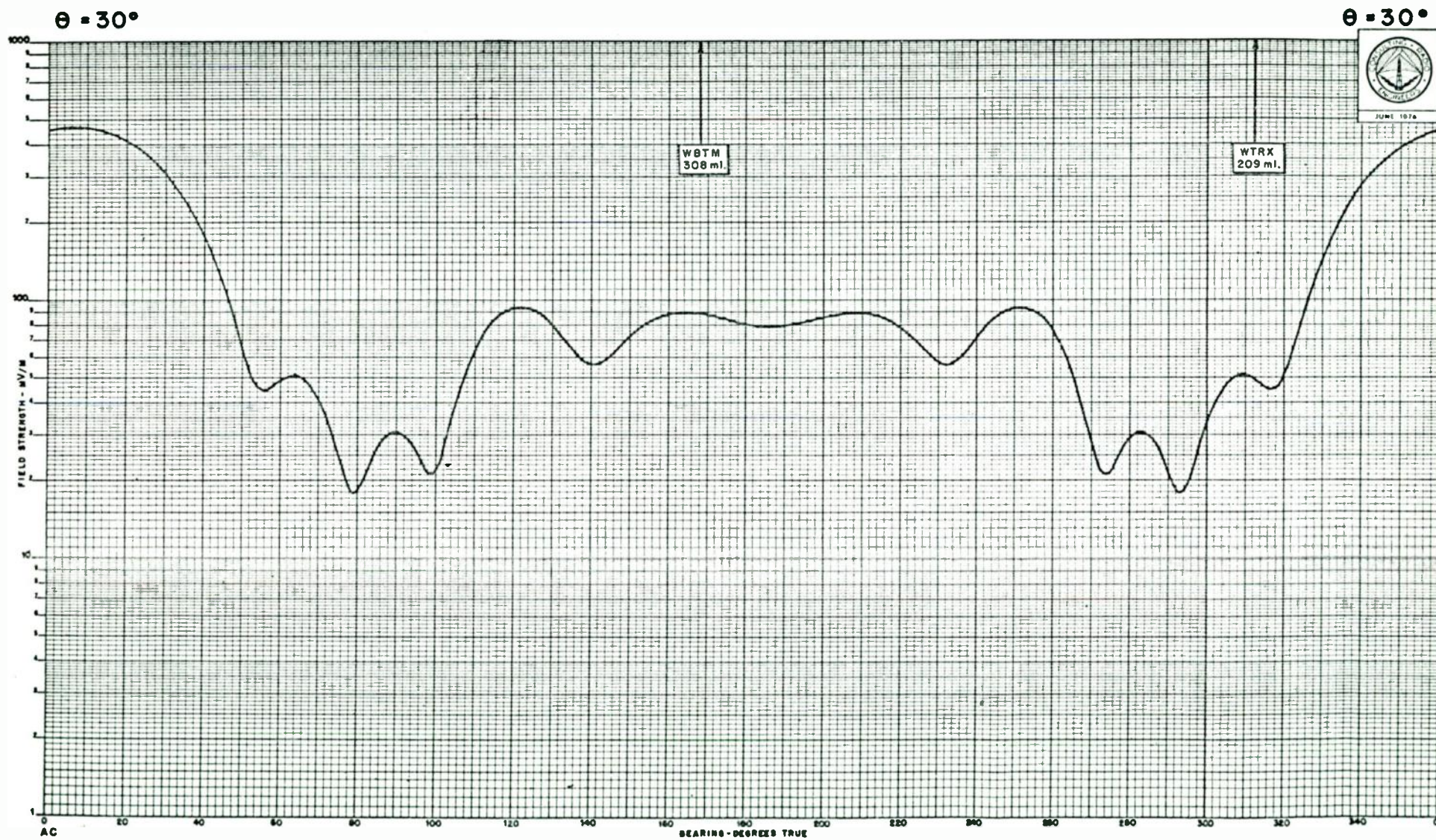


FIGURE 2-G

$\theta = 35^\circ$

$\theta = 35^\circ$

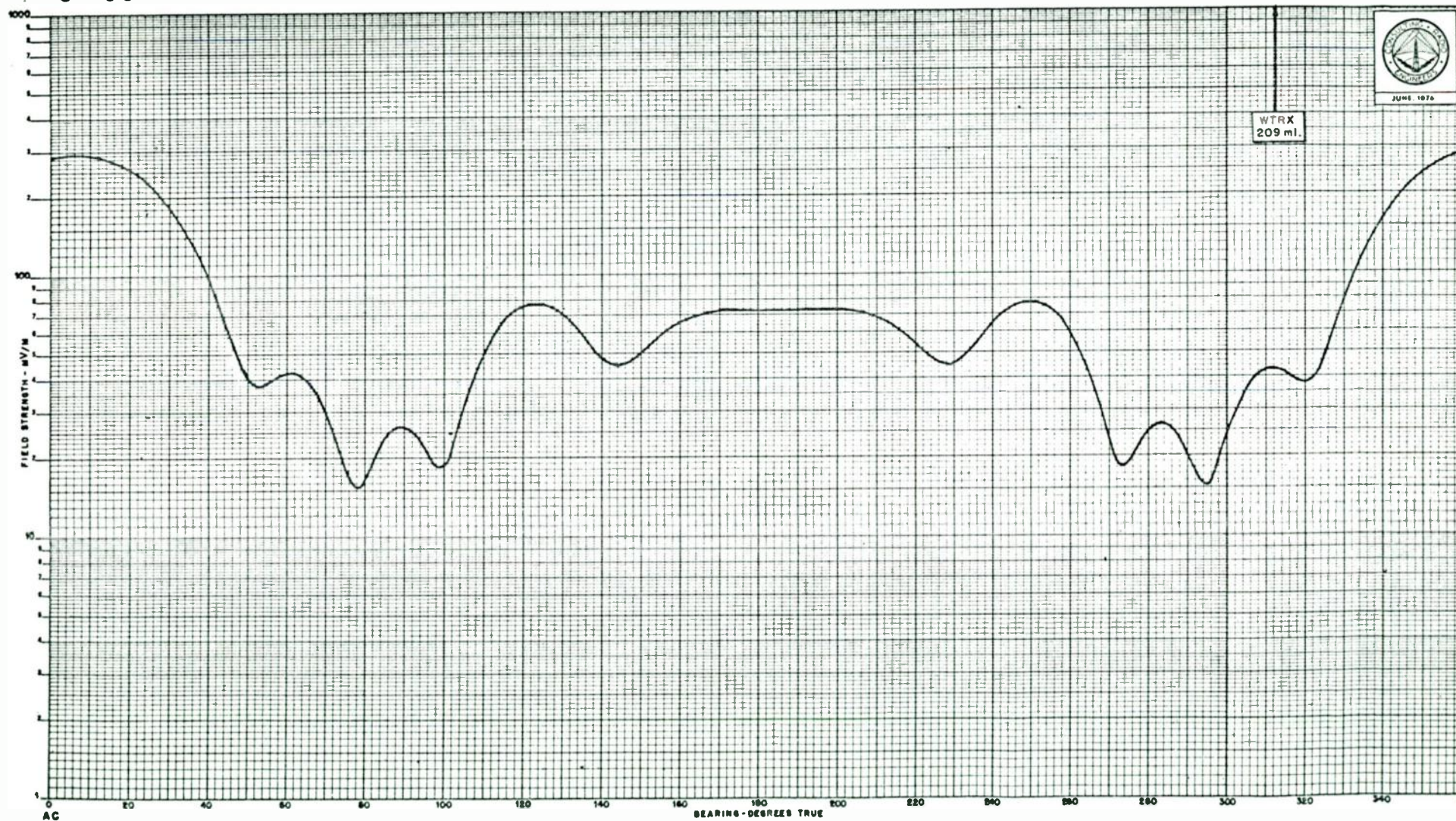


FIGURE 2-H

$\theta = 40^\circ$

$\theta = 40^\circ$

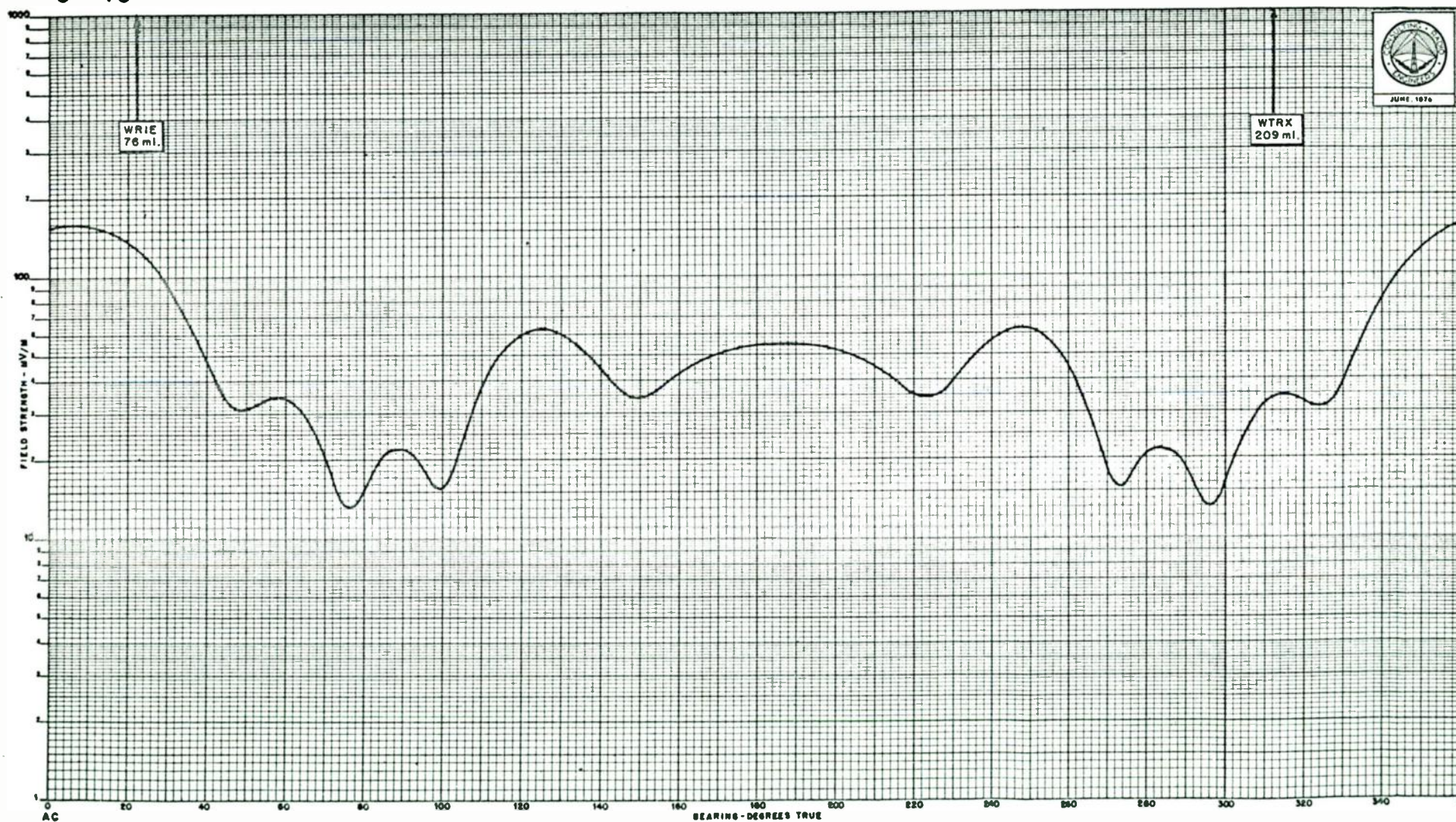


FIGURE 2-1

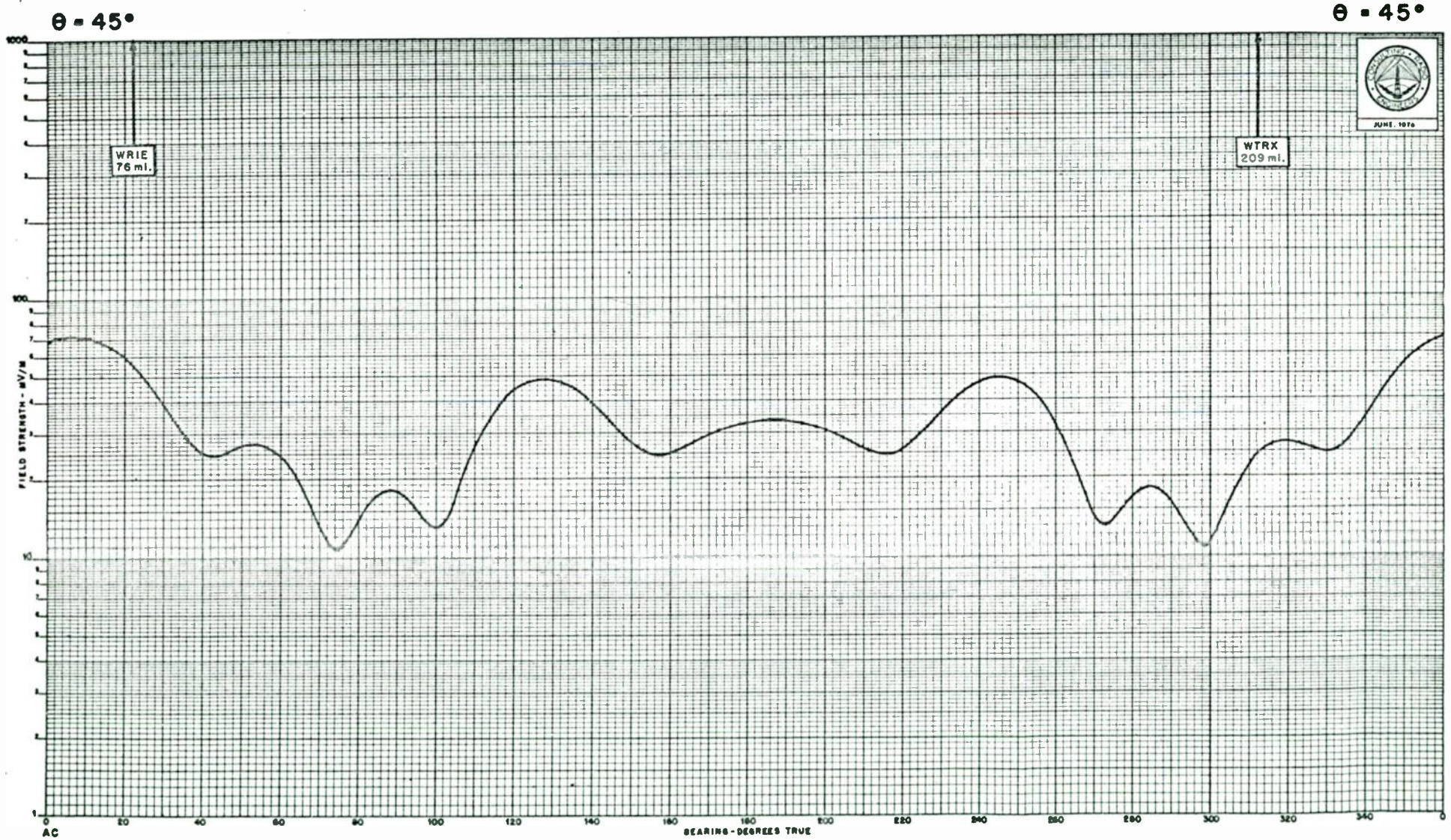


FIGURE 2 -J

0-50°

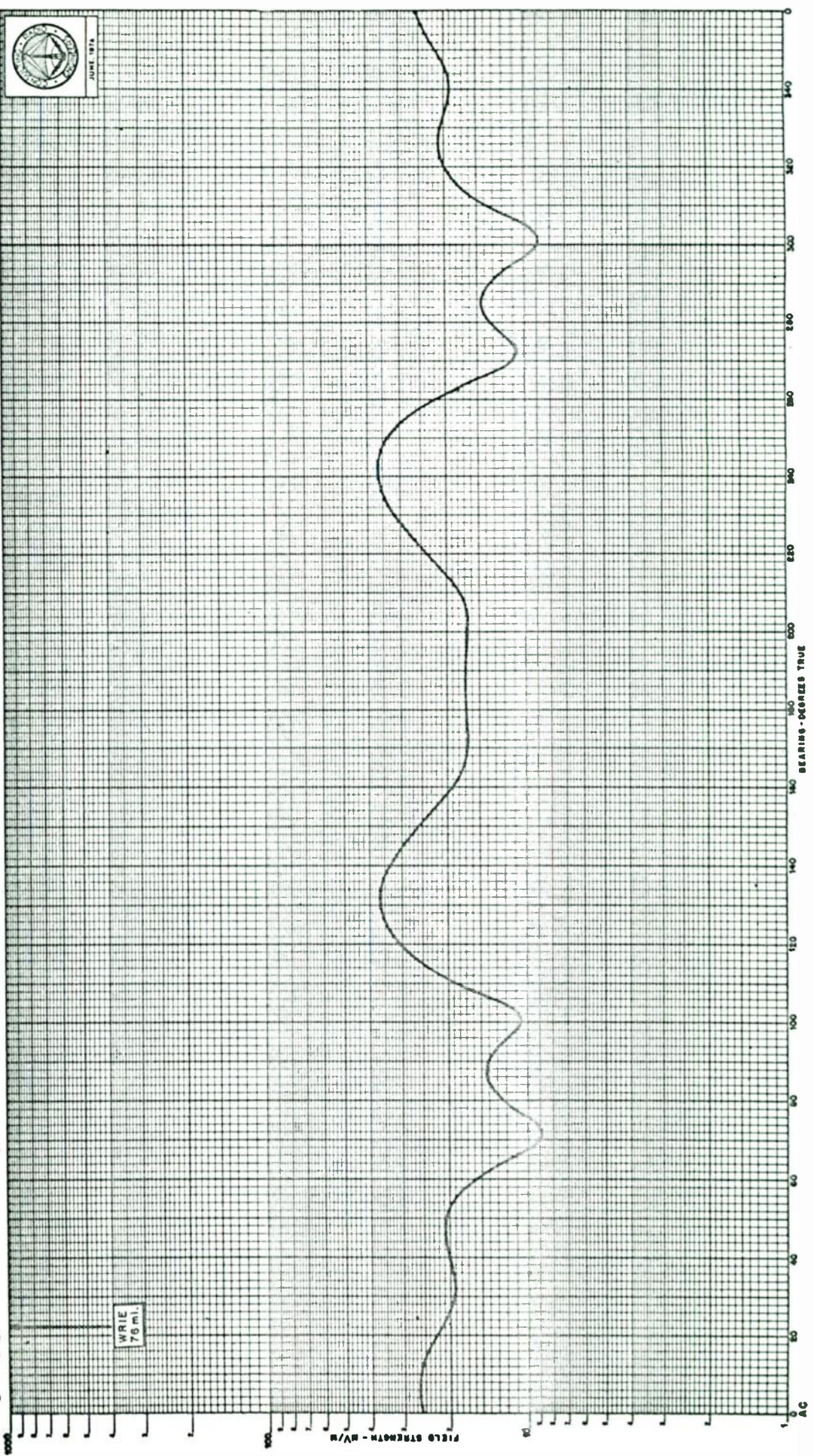


FIGURE 2-K

0-55°

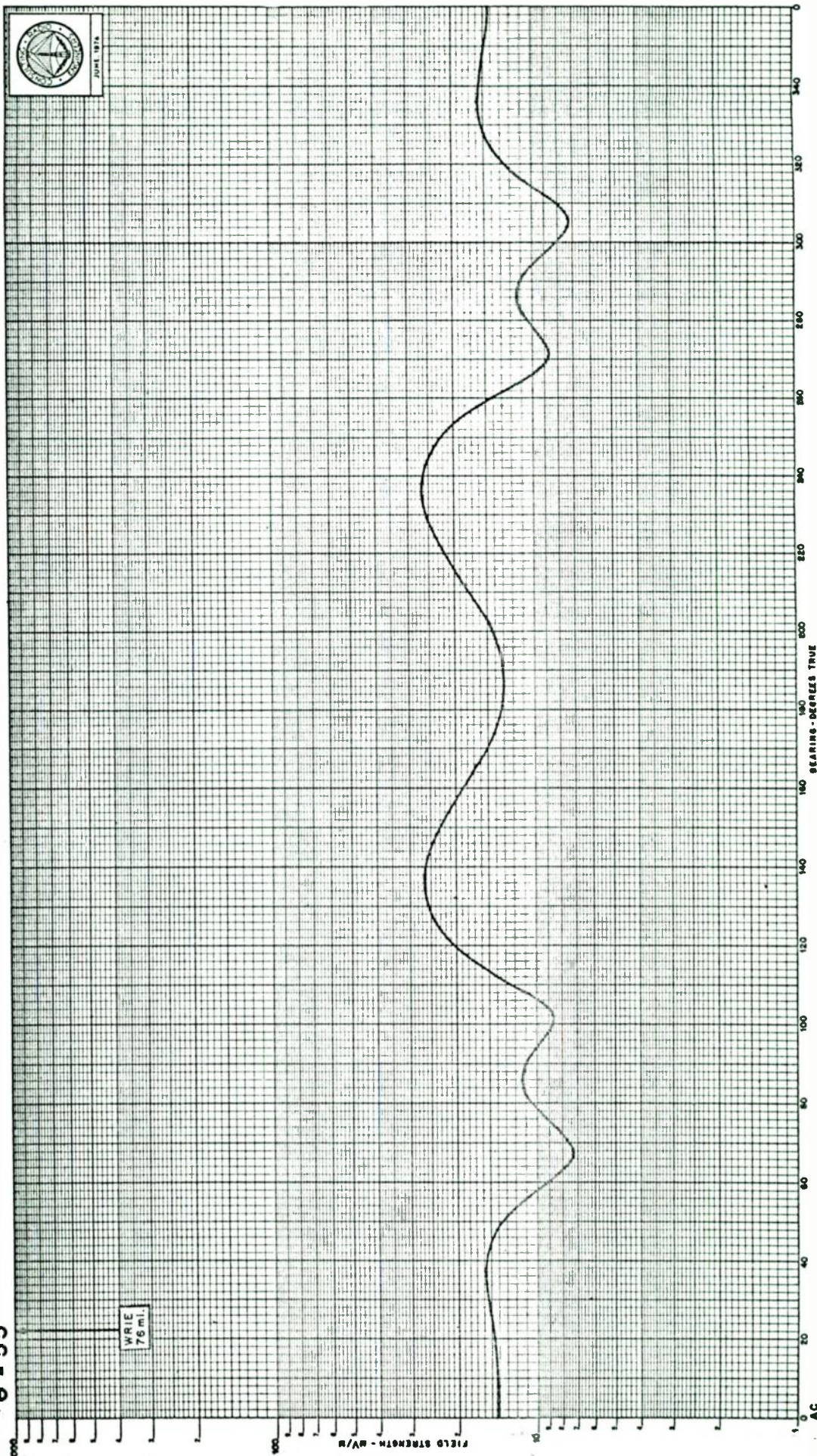


FIGURE 2-L

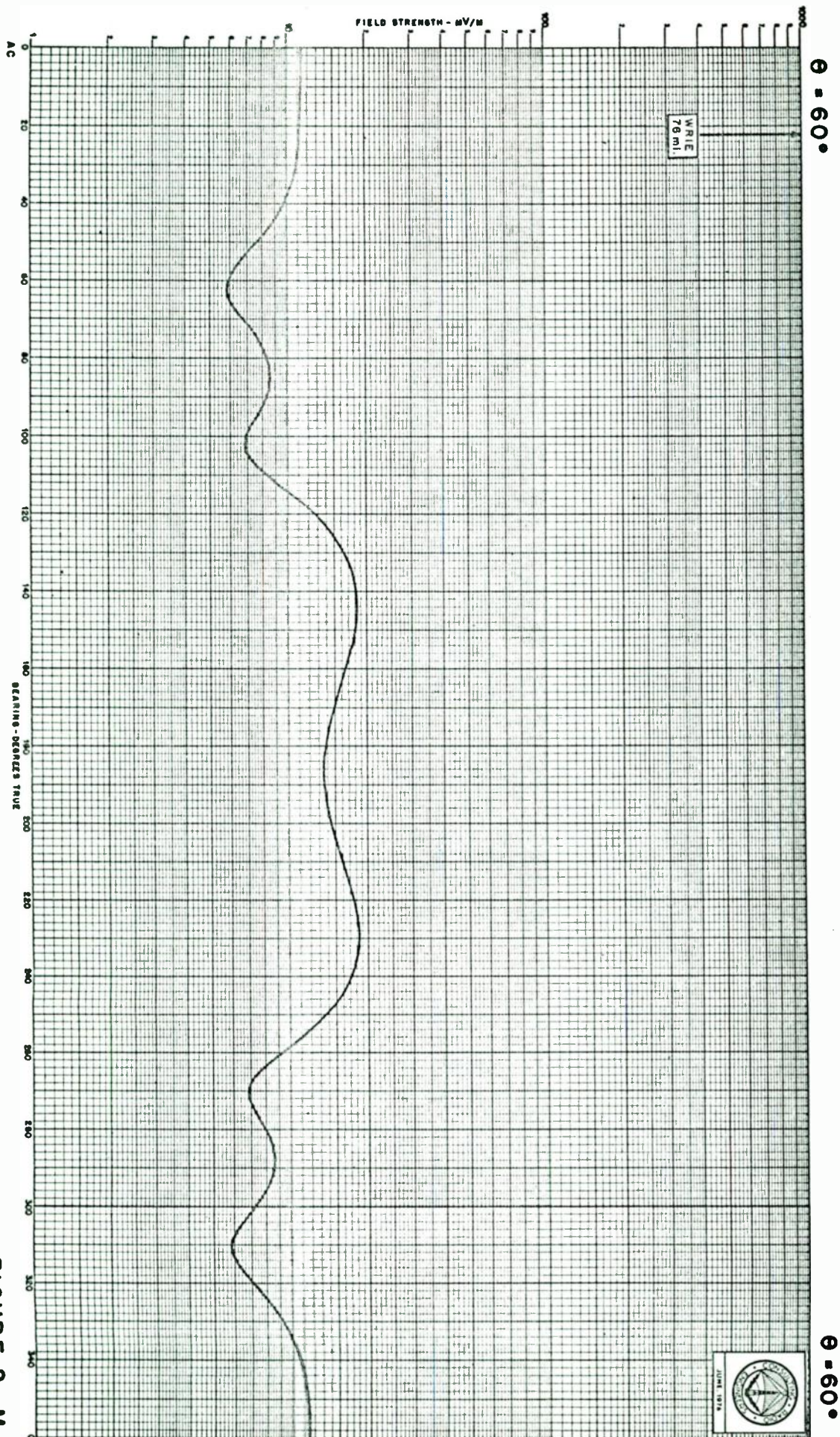
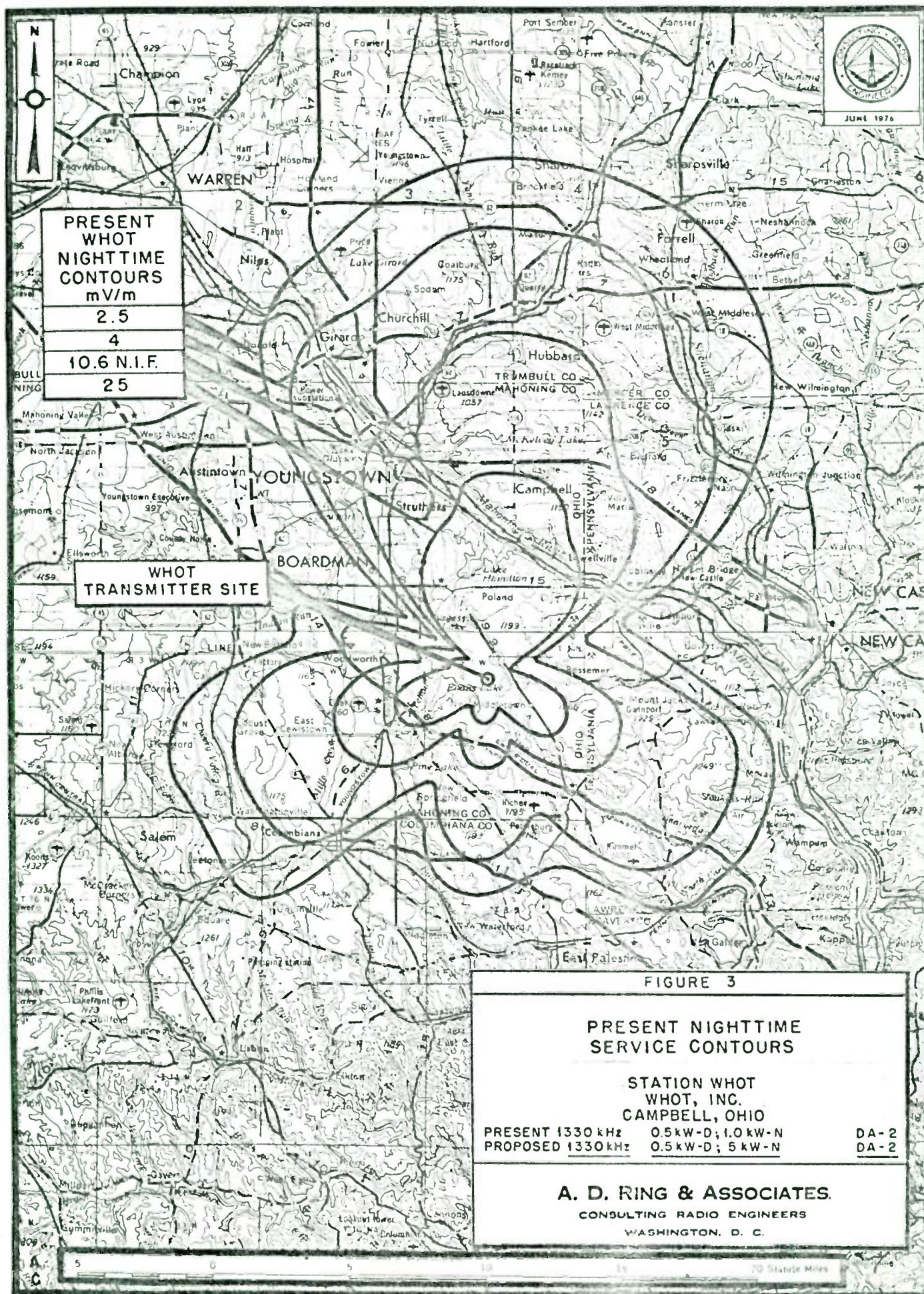


FIGURE 2 - M





PROPOSED WHOT NIGHTTIME SERVICE CONTOURS	
m V/m	
2.5	
4	
10.6 N.I.F.	
25	

WHOT TRANSMITTER SITE

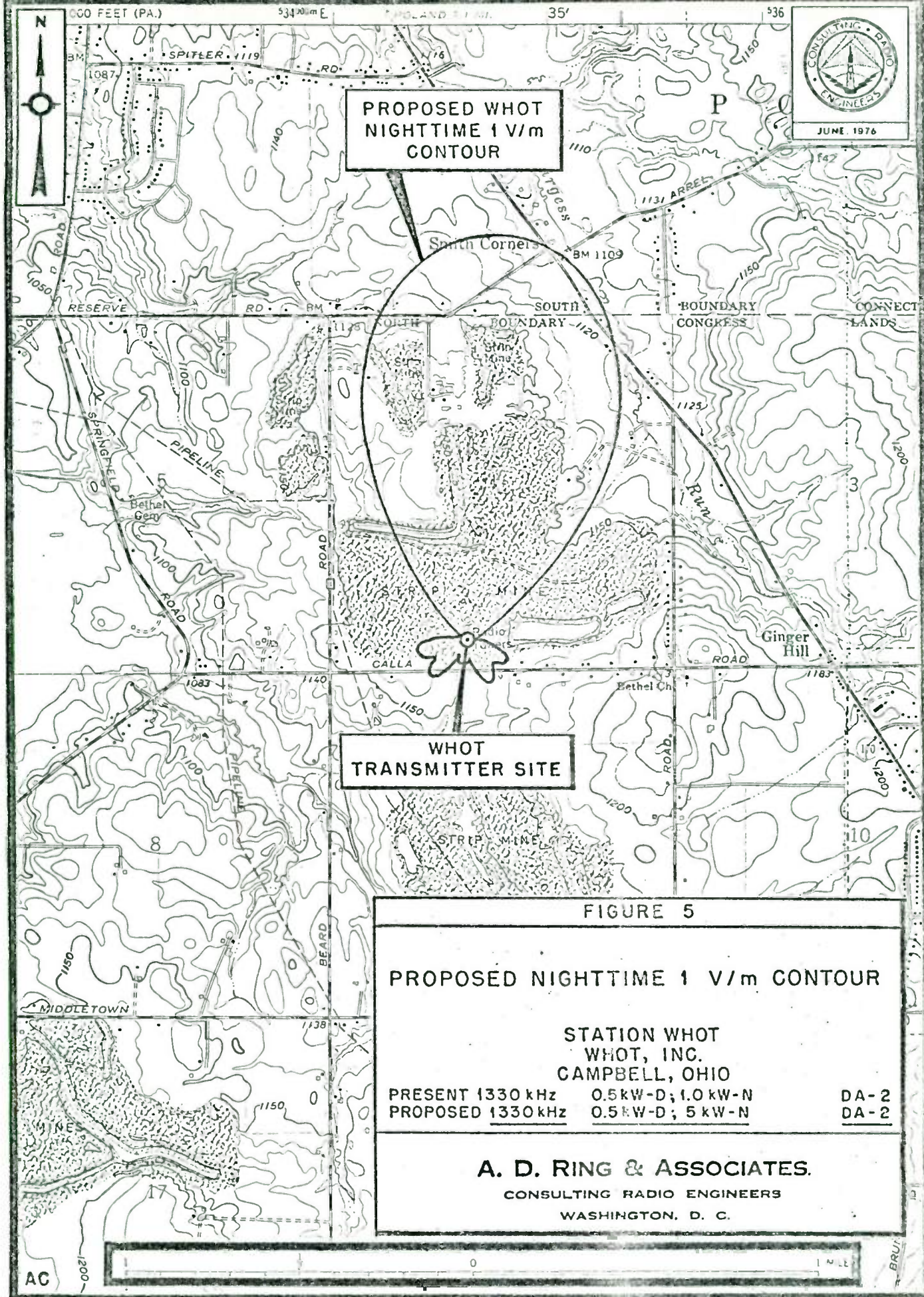
FIGURE 4

PROPOSED NIGHTTIME SERVICE CONTOURS

STATION WHOT
WHOT, INC.
CAMPBELL, OHIO

PRESENT 1330 kHz	0.5 kW-D; 1.0 kW-N	DA-2
PROPOSED 1330 kHz	0.5 kW-D; 5 kW-N	DA-2

A. D. RING & ASSOCIATES.
CONSULTING RADIO ENGINEERS
WASHINGTON, D. C.



PROPOSED VERTICAL PLANE PATTERNS

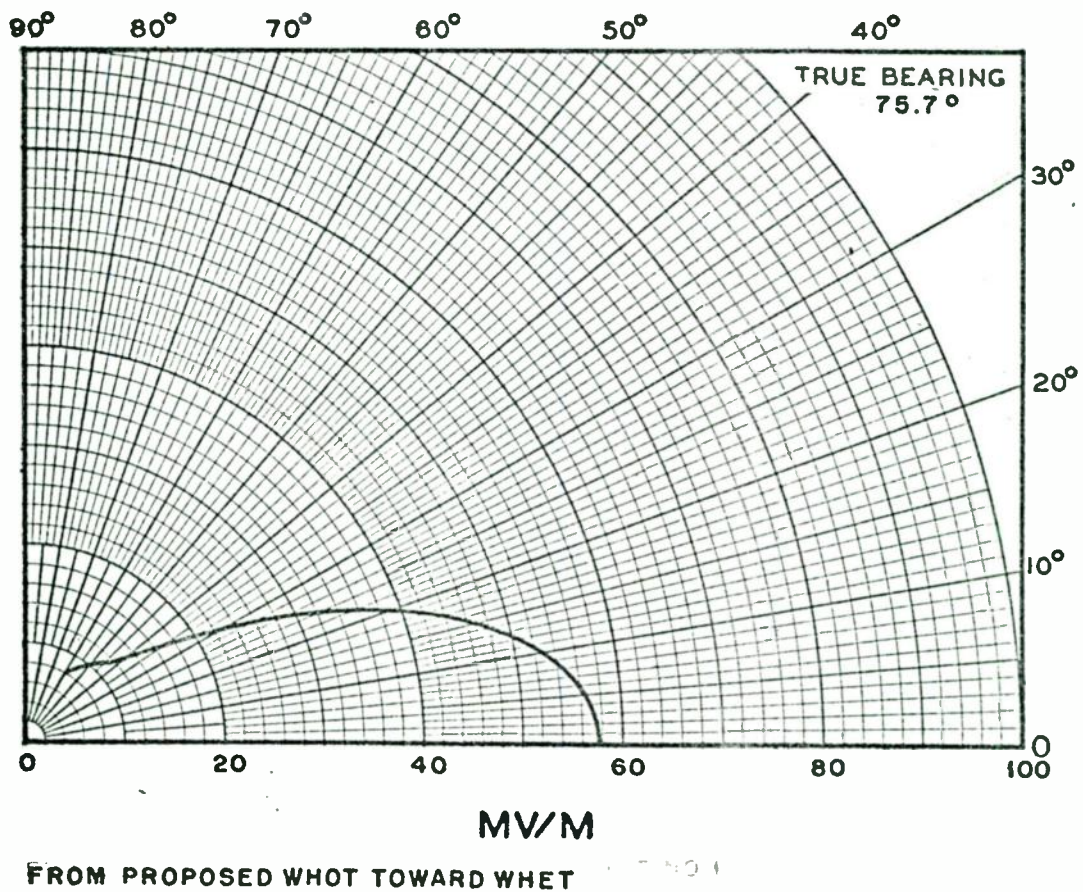
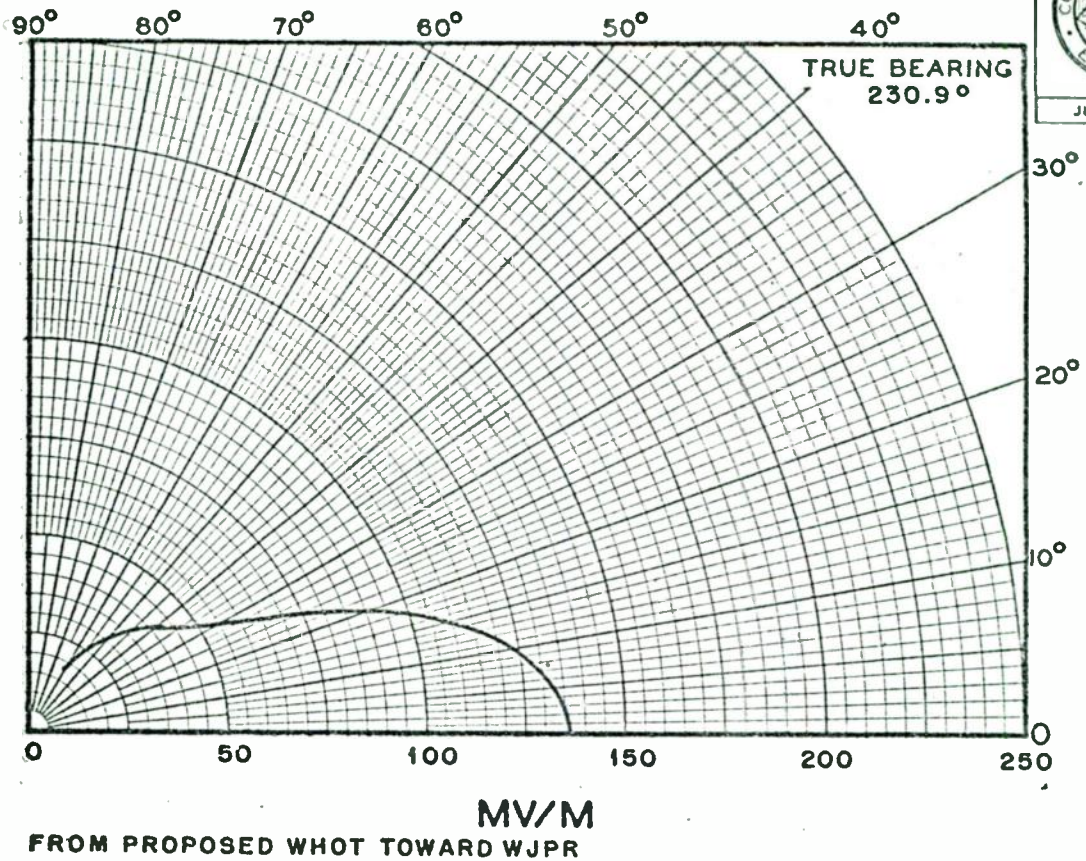


FIGURE 6-A

PROPOSED VERTICAL PLANE PATTERNS

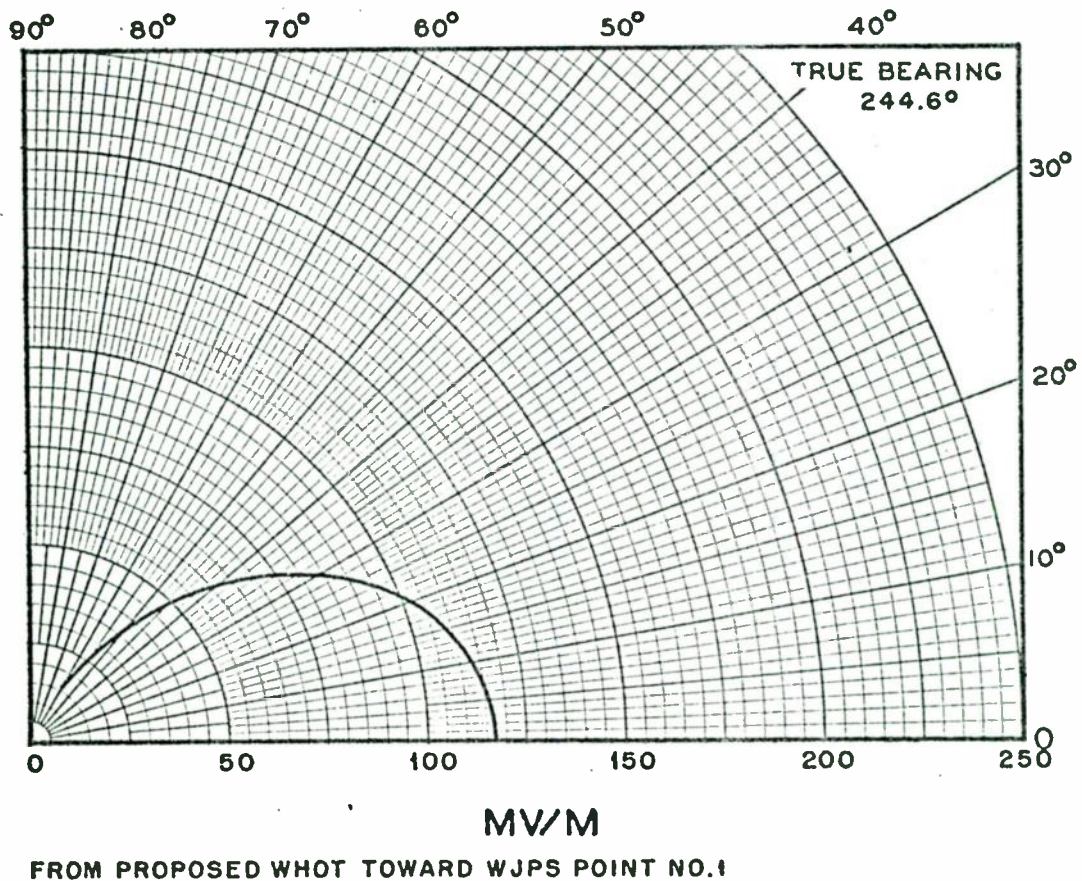
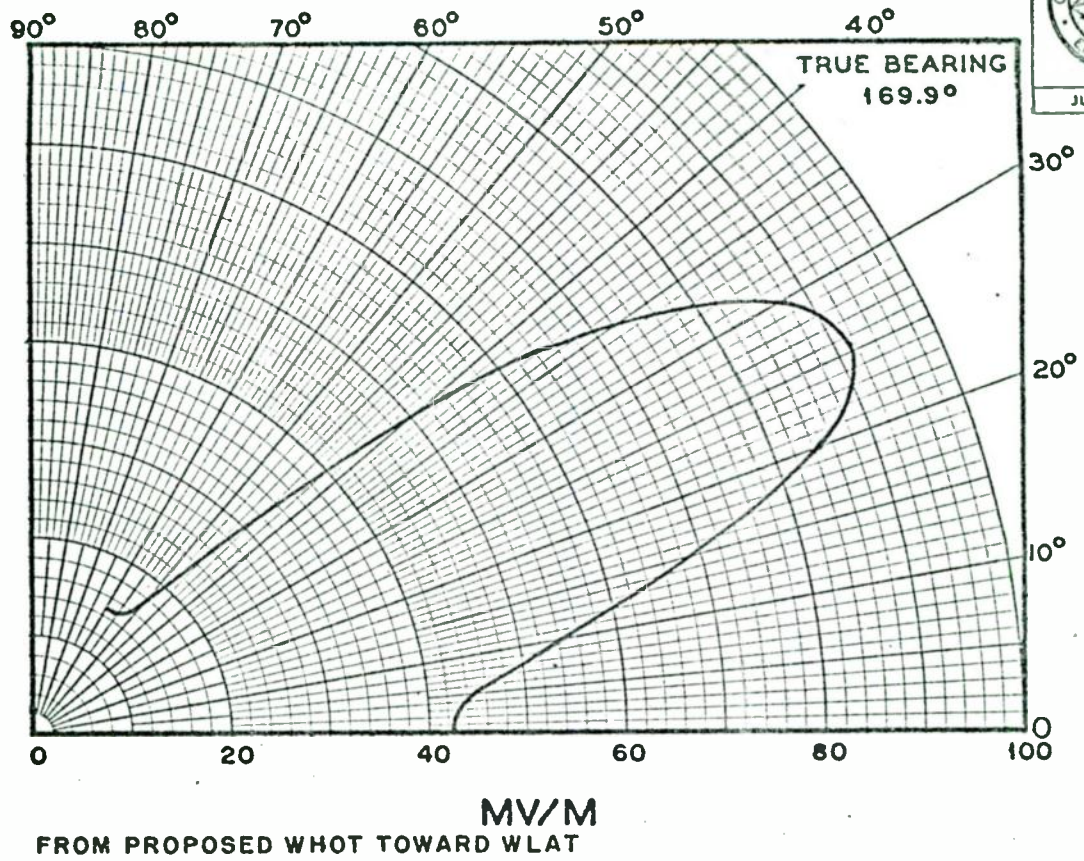
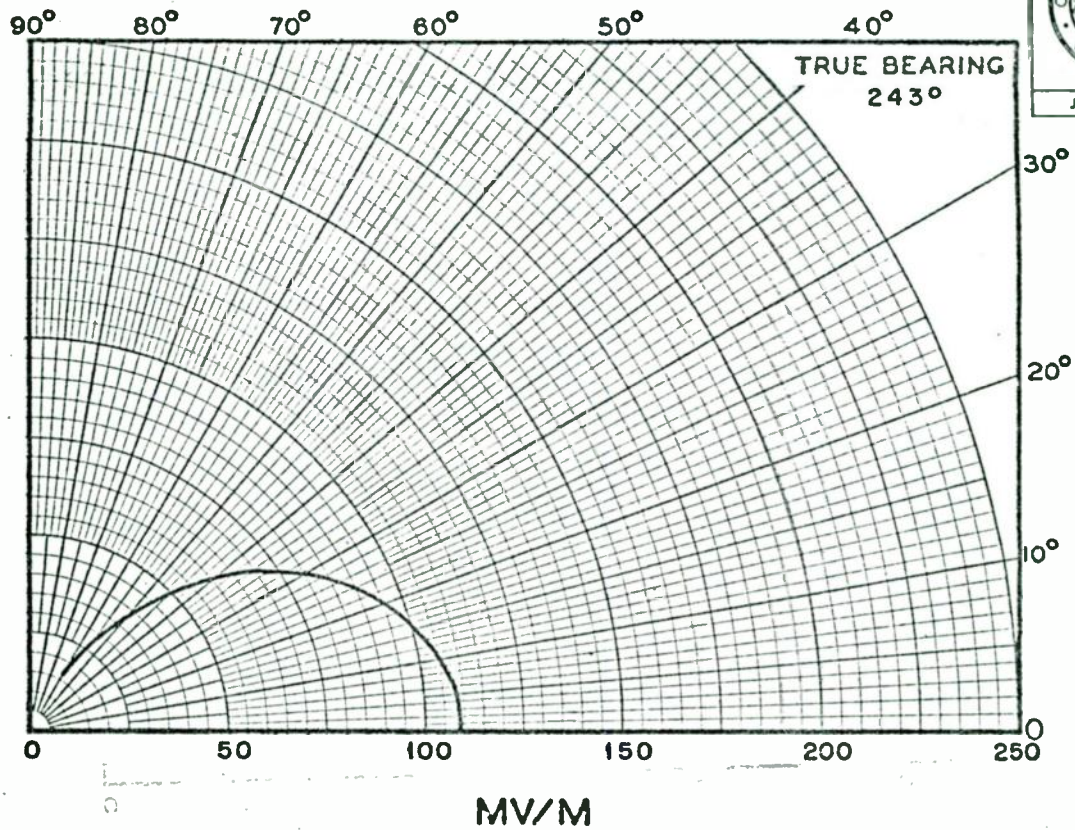
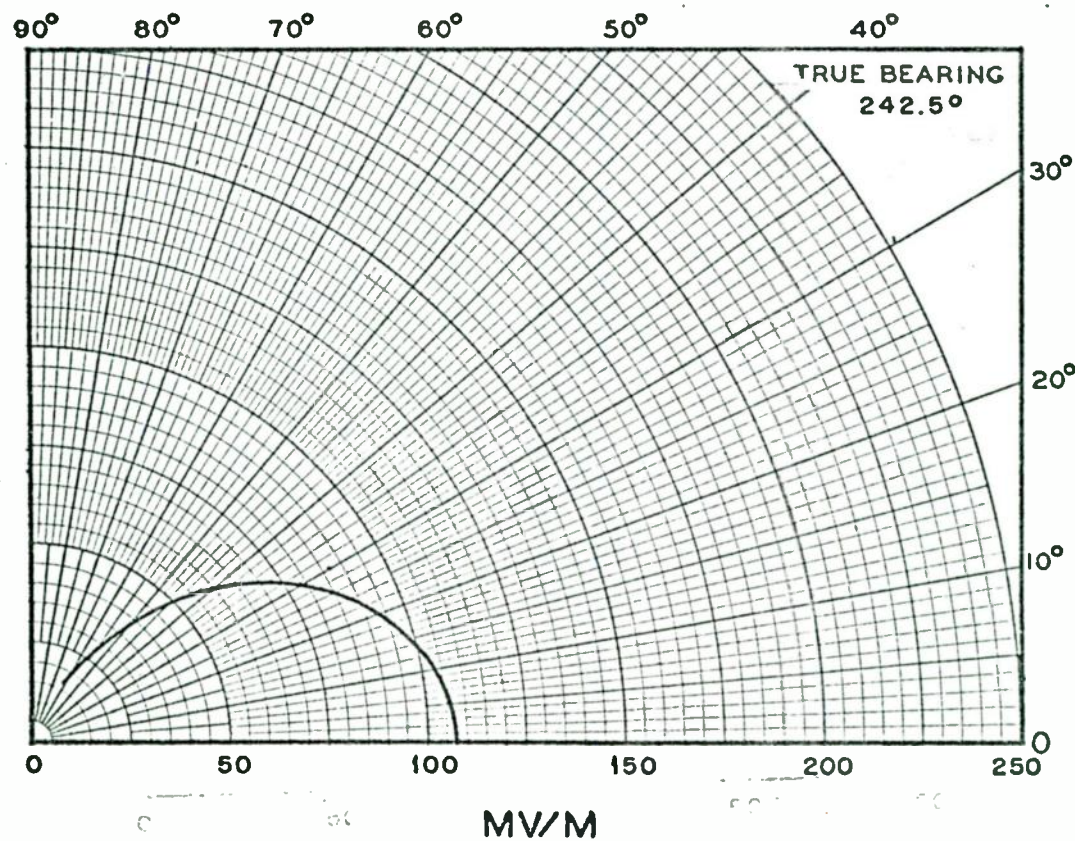


FIGURE 6-B

PROPOSED VERTICAL PLANE PATTERNS



FROM PROPOSED WHOT TOWARD WJPS POINT NO.2

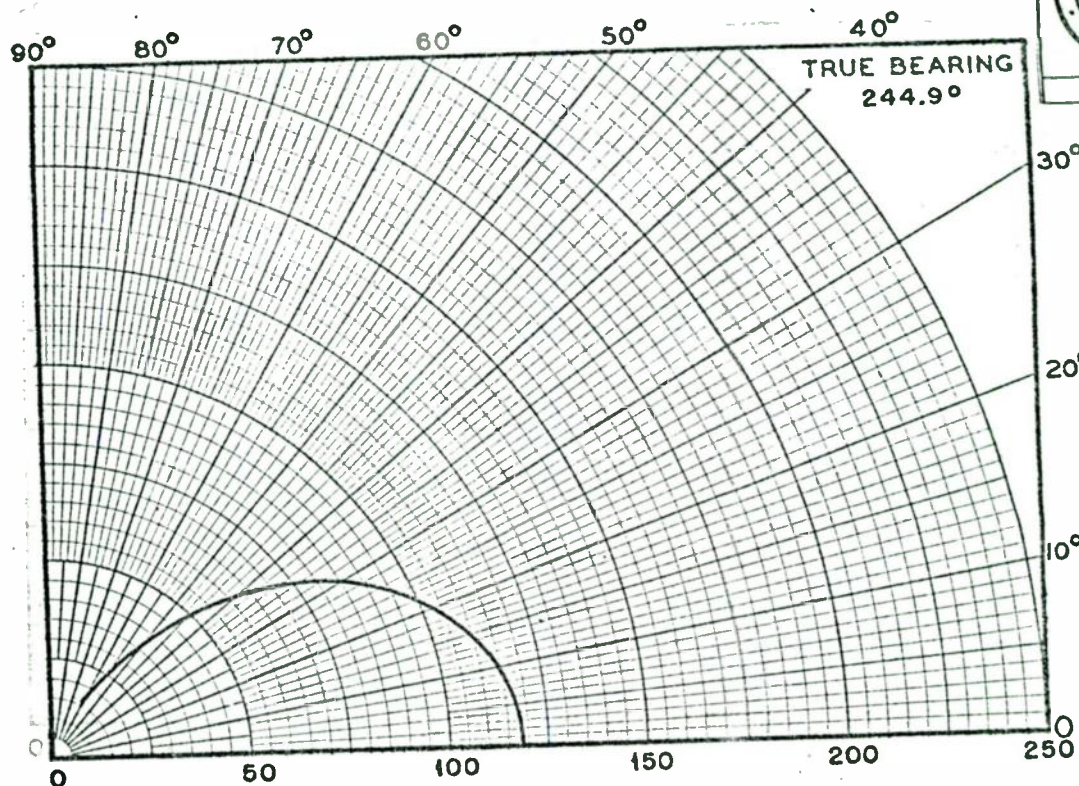


FROM PROPOSED WHOT TOWARD WJPS POINT NO.3

FROM FELPC ... POINT NO. 3

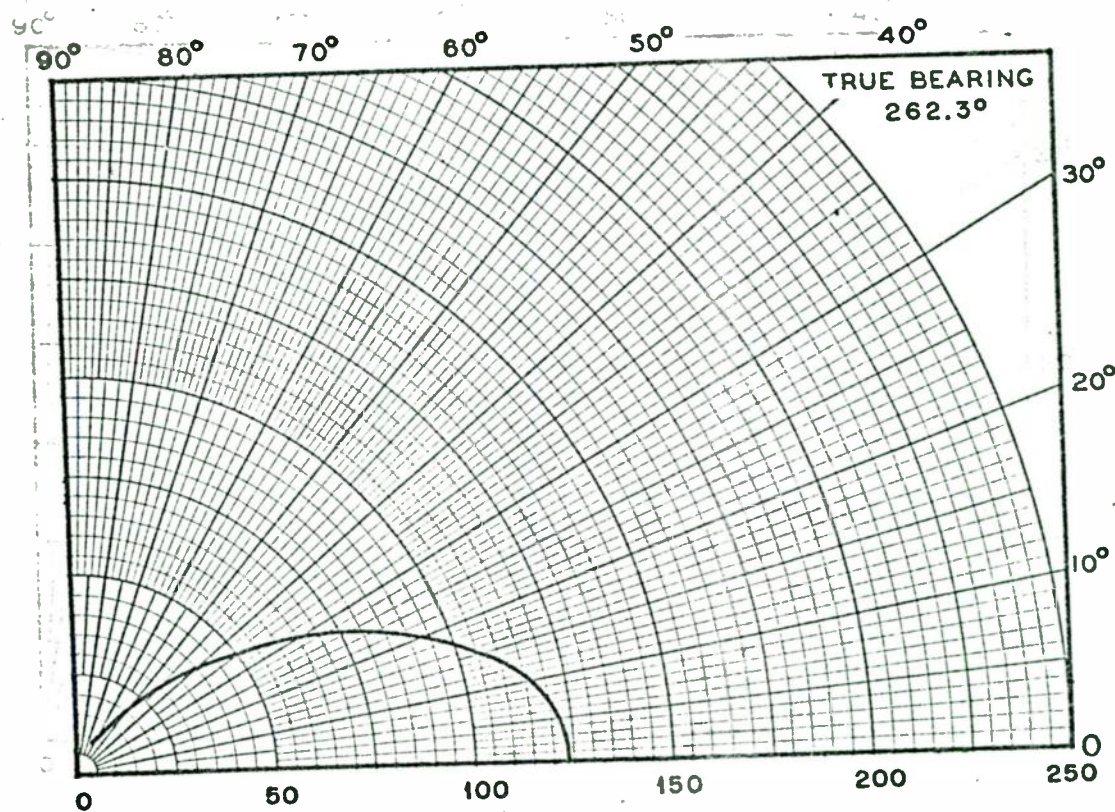
FIGURE 6-C

PROPOSED VERTICAL PLANE PATTERNS



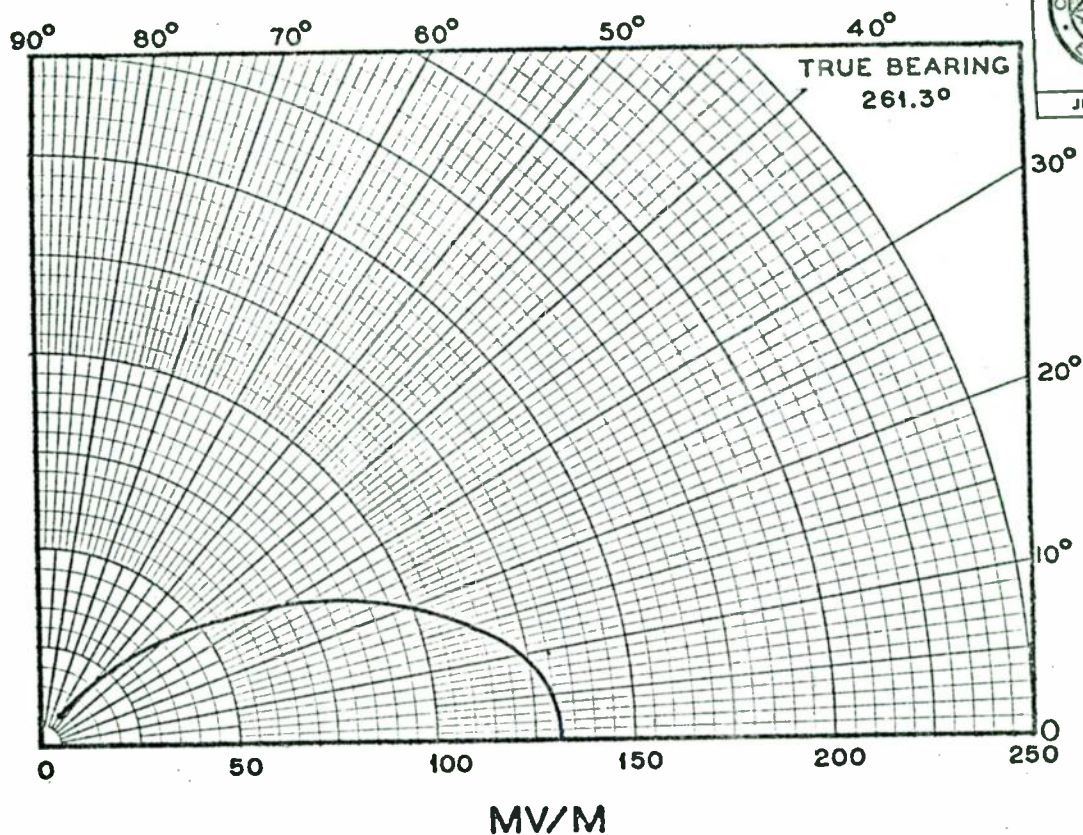
FROM PROPOSED WHOT TOWARD WJPS POINT NO. 4

AC

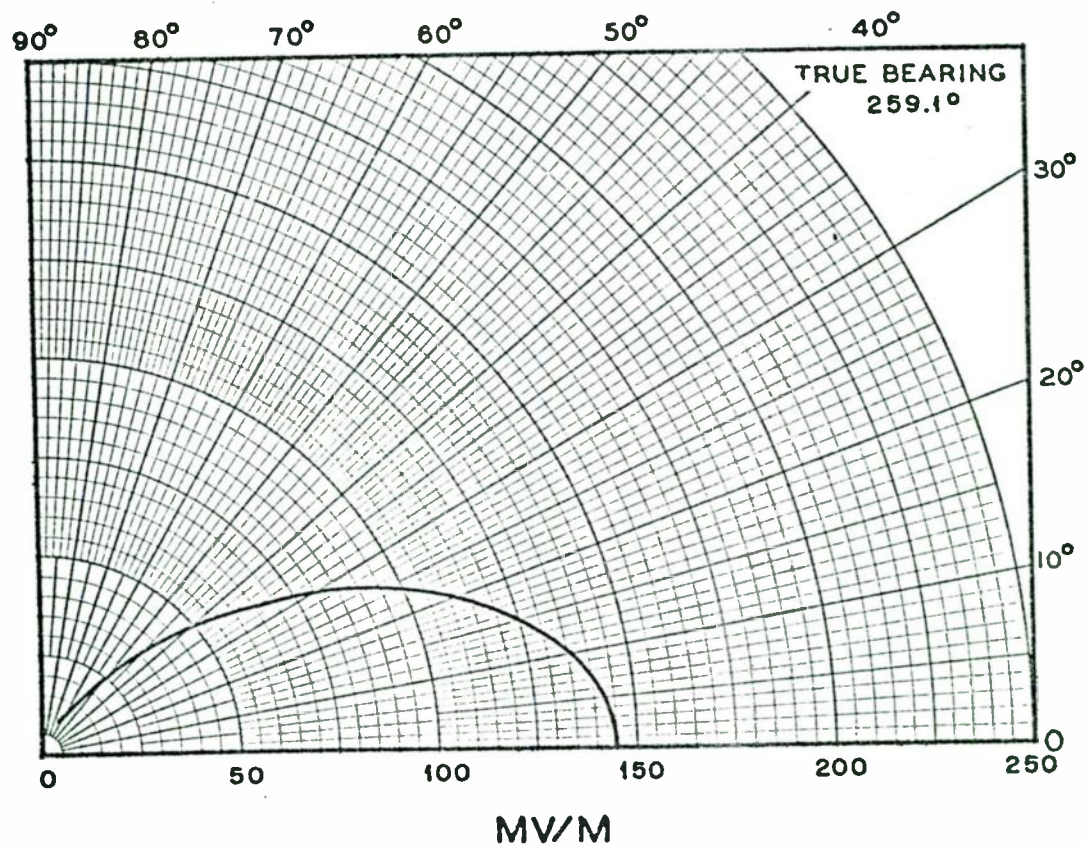


FROM PROPOSED WHOT TOWARD KFH POINT NO. 1

PROPOSED VERTICAL PLANE PATTERNS



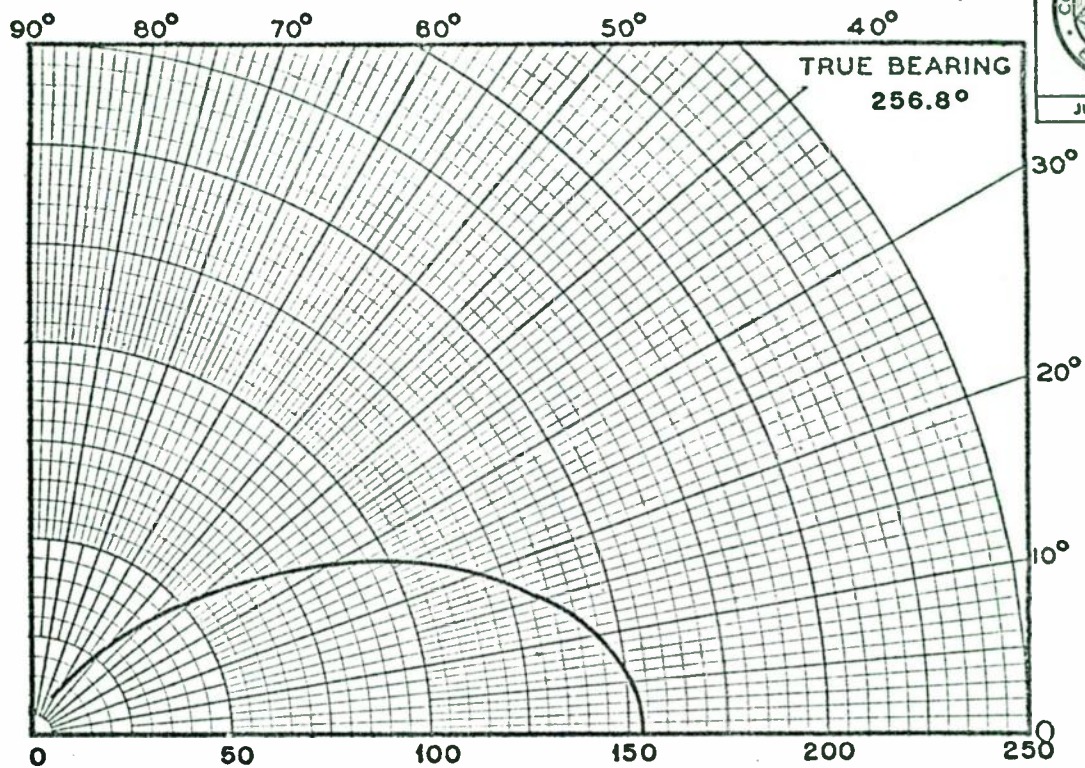
FROM PROPOSED WHOT TOWARD KFH POINT NO. 2



FROM PROPOSED WHOT TOWARD KFH POINT NO. 3

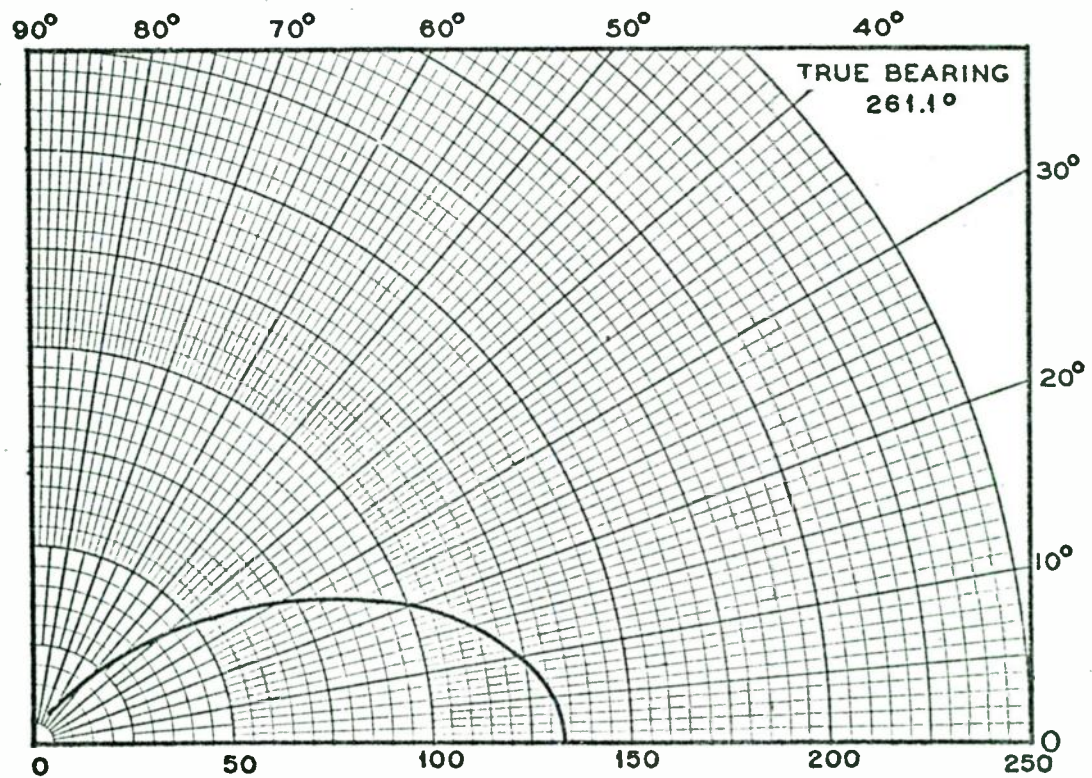
FIGURE 6-E

PROPOSED VERTICAL PLANE PATTERNS



MV/M

FROM PROPOSED WHOT TOWARD KFH POINT NO. 4



MV/M

FROM PROPOSED WHOT TOWARD KFH POINT NO. 5

FIGURE 6-F

6-29-78

WHOT

SEP 29 1977

BEFORE THE

OFFICE OF THE SECRETARY

Federal Communications Commission

WASHINGTON, D.C. 20554

In re Application of

WHOT, INC.

File No. BP-

For Construction Permit
for Station WHOT
Campbell, Ohio

AMENDMENT TO APPLICATION

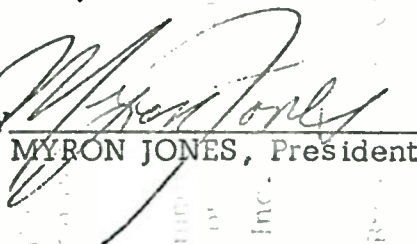
WHOT, Inc. hereby amends the above-styled application in the following respects:

1. Substitute the attached Pages 4, 4A and 4B, Table II, FCC Form 301, for the relative Pages presently on file.

Dated this 26th day of September, 1977.

WHOT, INC.

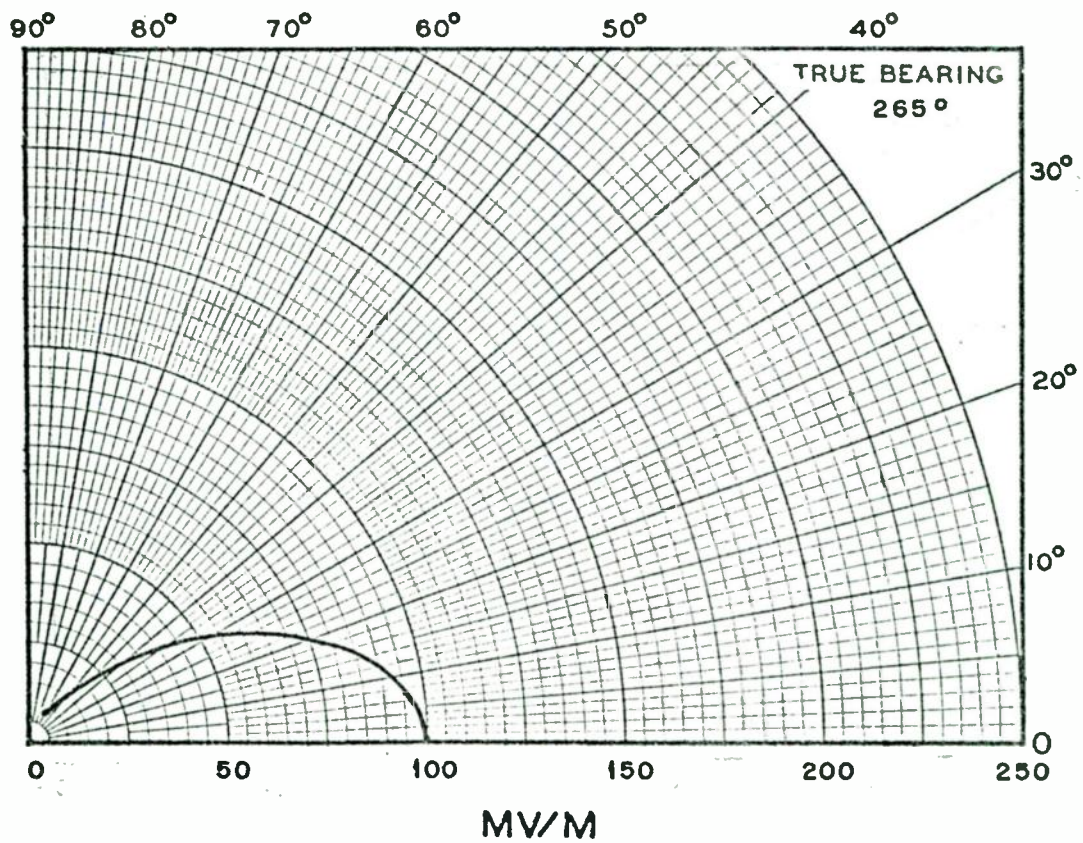
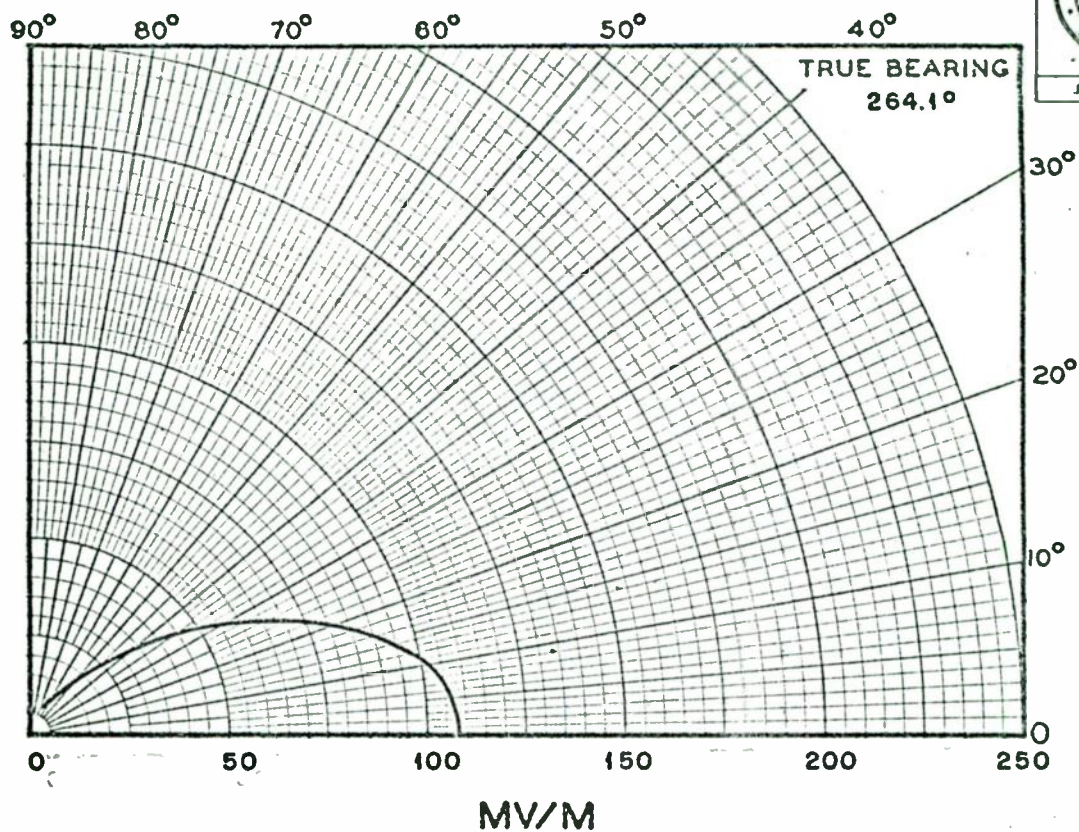
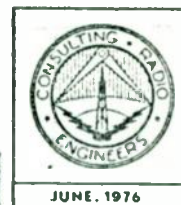
By


MYRON JONES, President

William Fleckenstein

1/ See Page 4B.

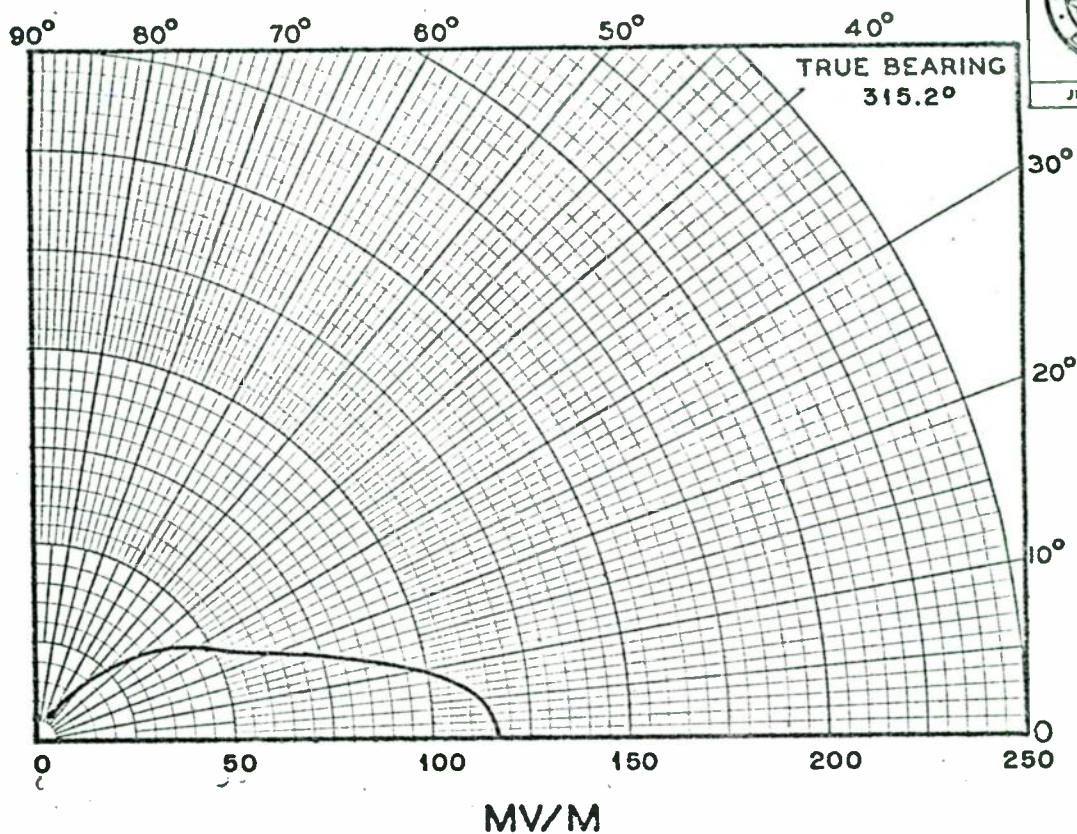
PROPOSED VERTICAL PLANE PATTERNS



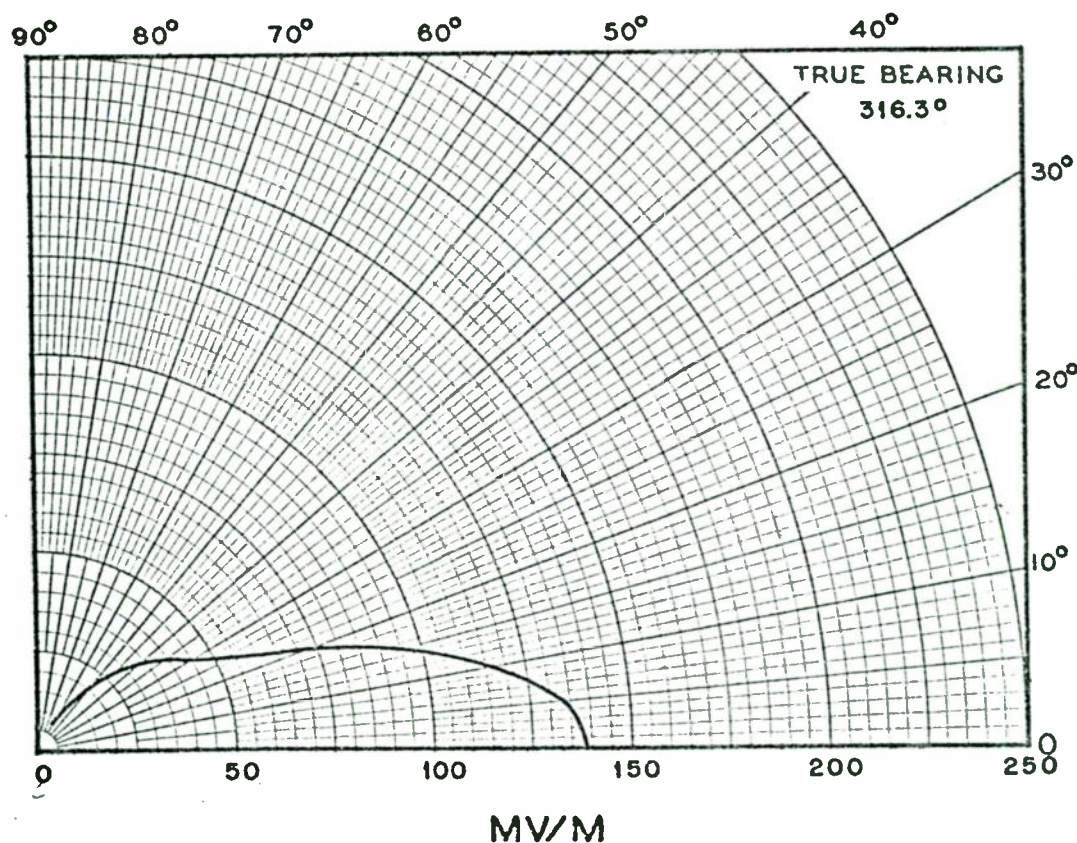
FROM PROPOSED WHOT TOWARD KFH POINT NO. 7

FIGURE 6-G

PROPOSED VERTICAL PLANE PATTERNS



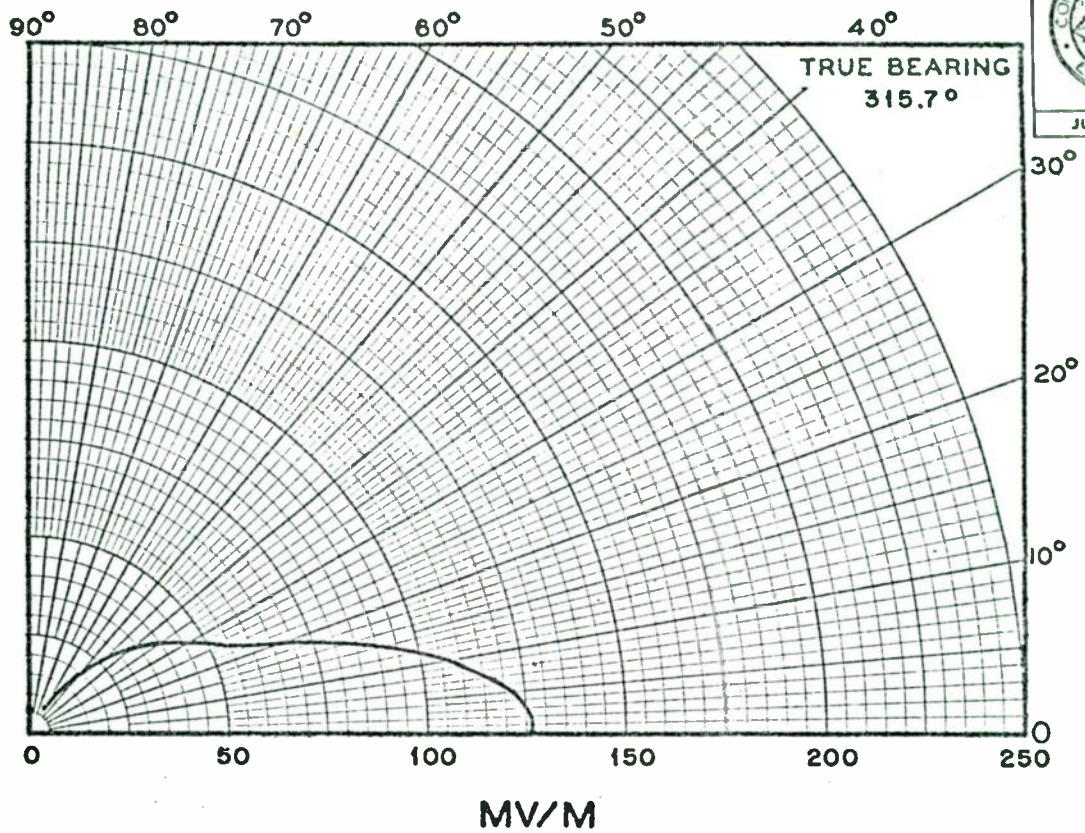
FROM PROPOSED WHOT TOWARD WTRX POINT NO. 1



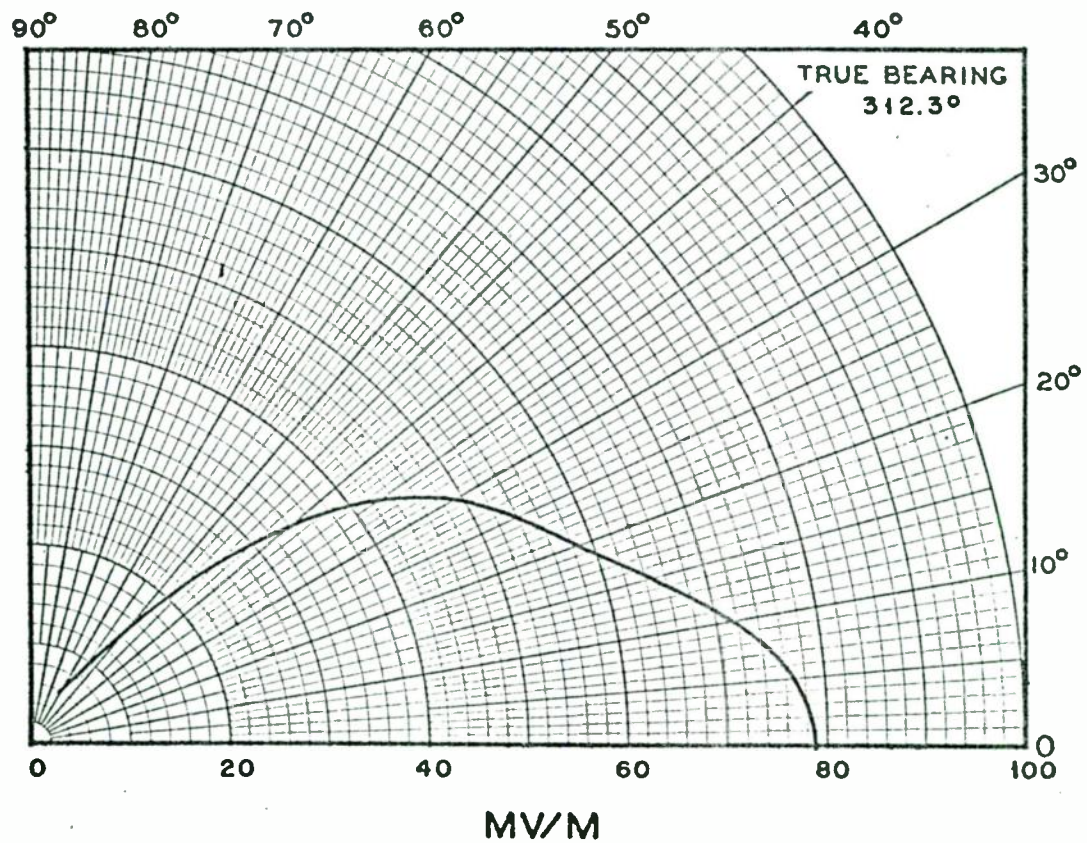
FROM PROPOSED WHOT TOWARD WTRX POINT NO. 2 & 3

FIGURE 6-H

PROPOSED VERTICAL PLANE PATTERNS



FROM PROPOSED WHOT TOWARD WTRX POINT NO. 4



FROM PROPOSED WHOT TOWARD WTRX POINT NO. 5

FIGURE 6-I

PROPOSED VERTICAL PLANE PATTERNS

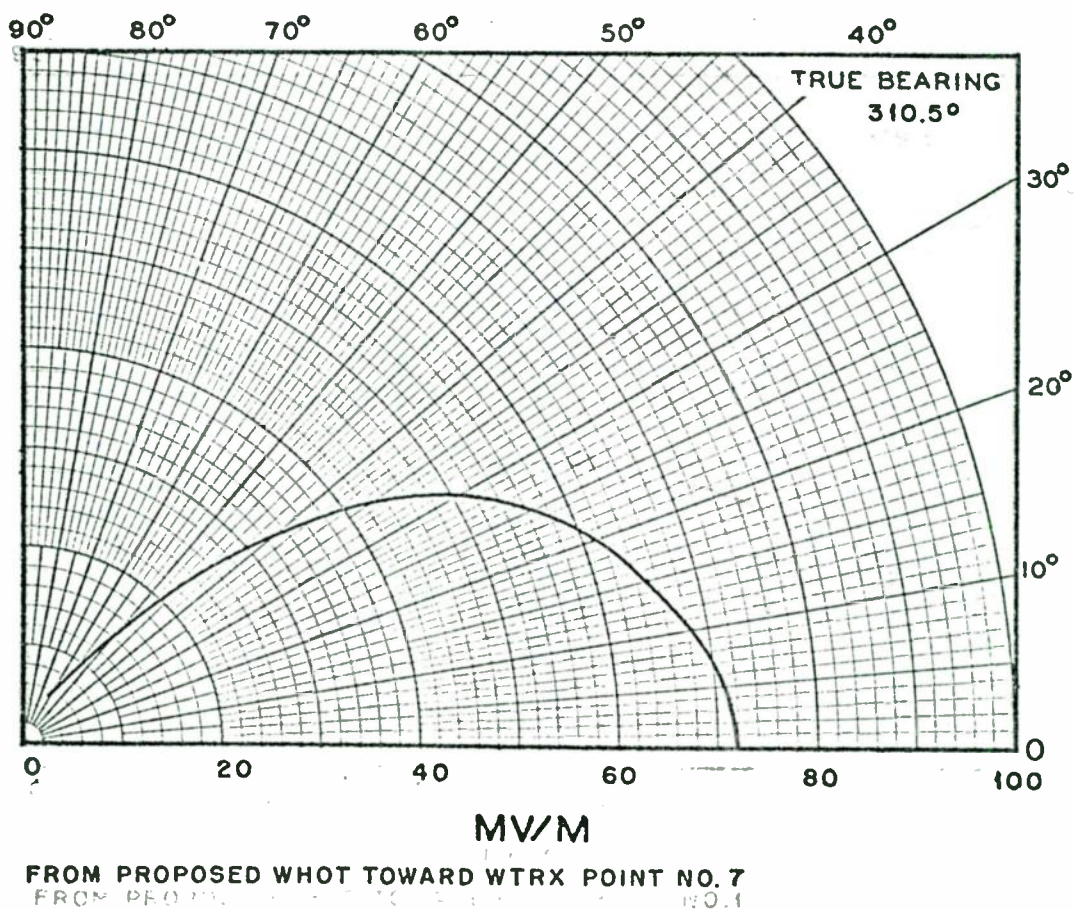
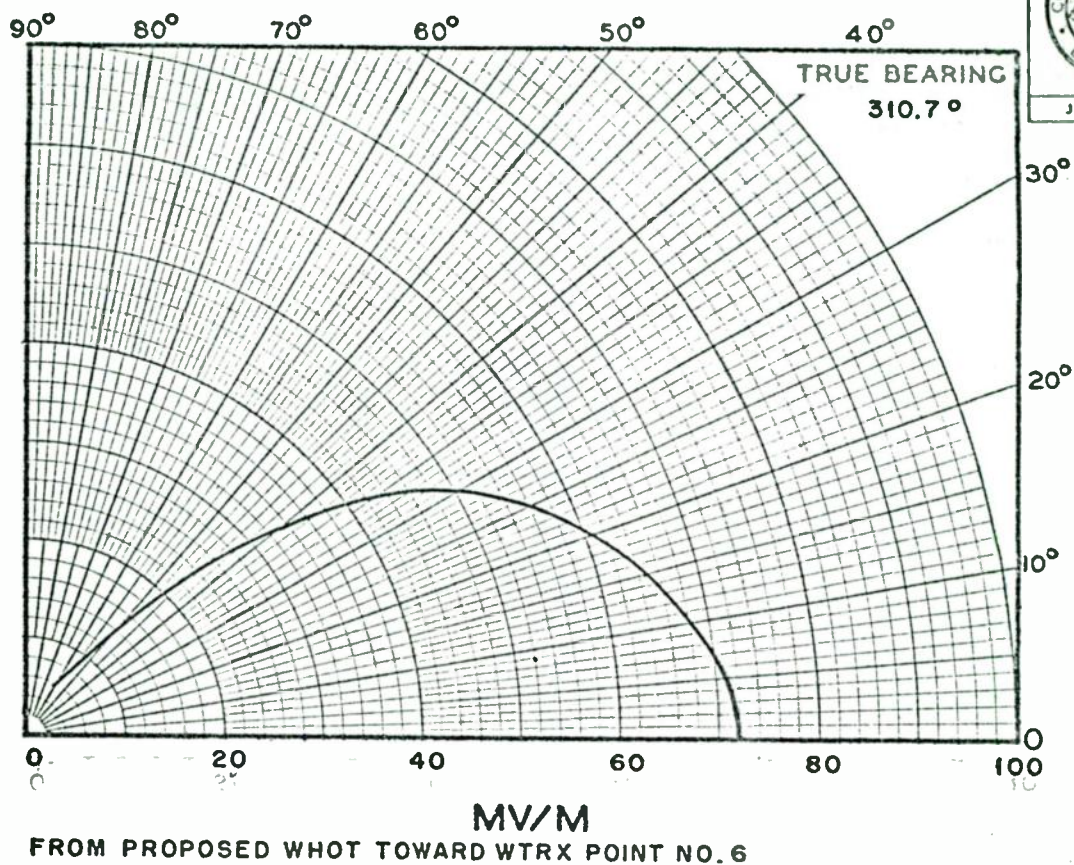
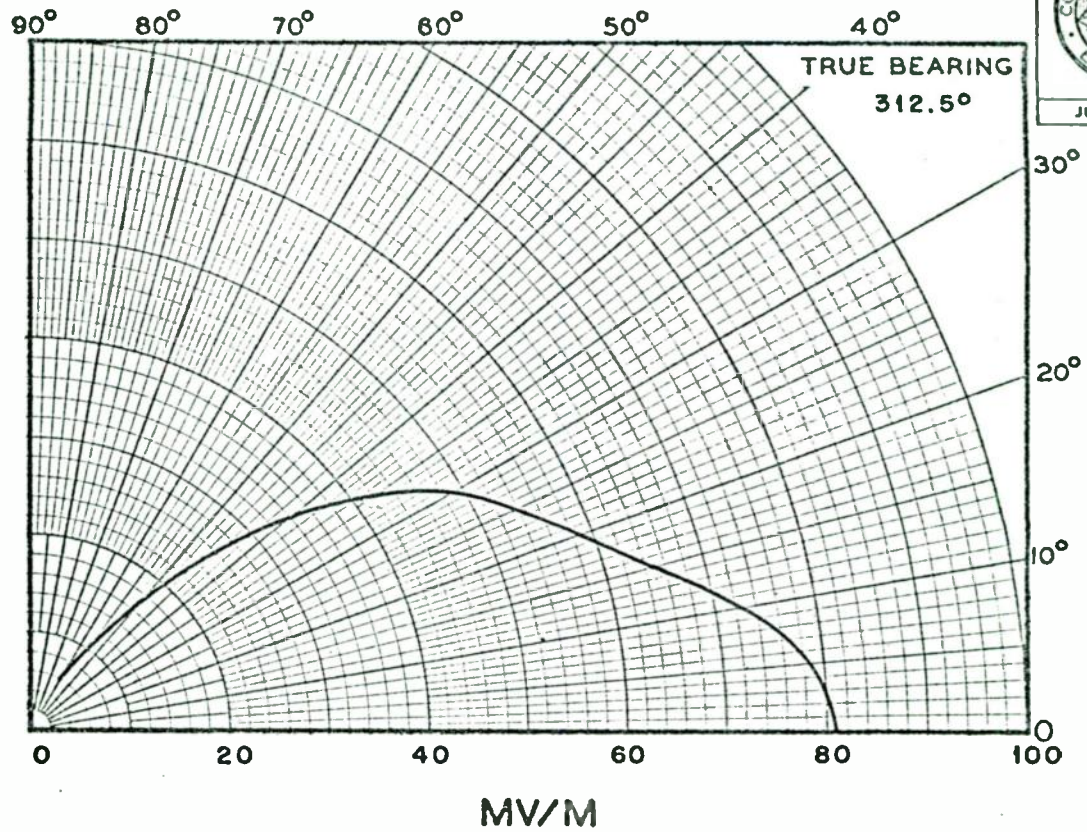
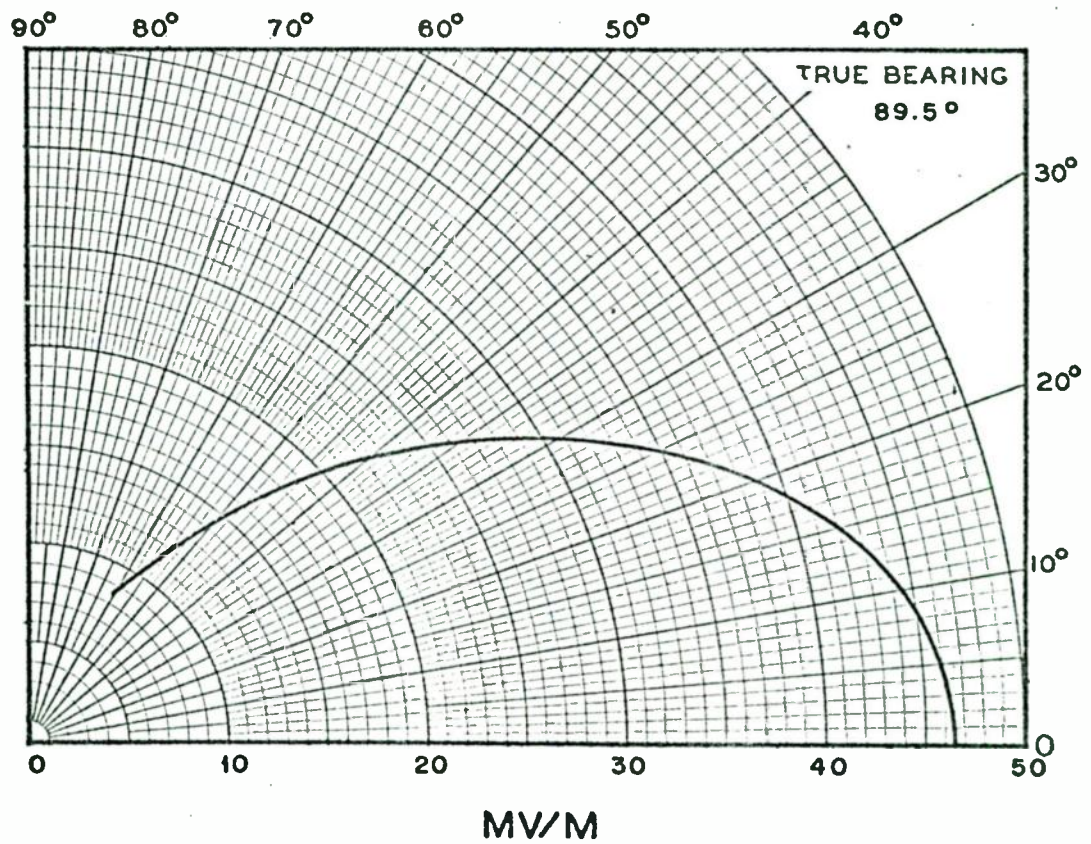


FIGURE 6-J

PROPOSED VERTICAL PLANE PATTERNS



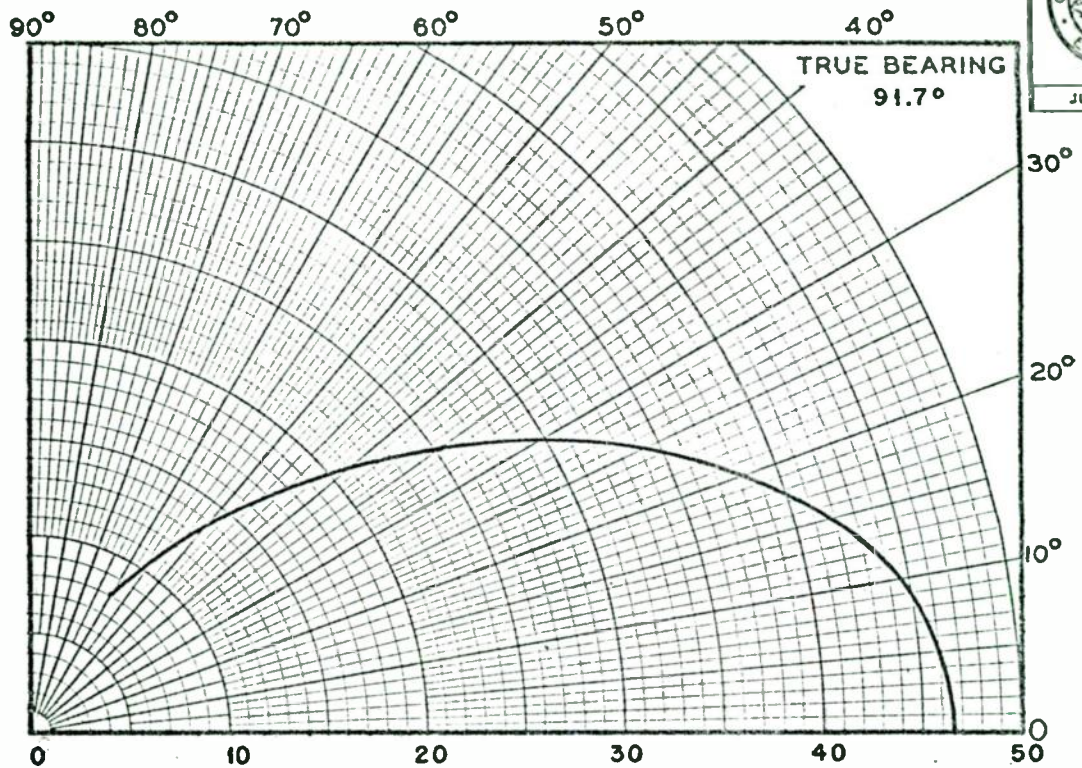
FROM PROPOSED WHOT TOWARD WTRX POINT NO. 8



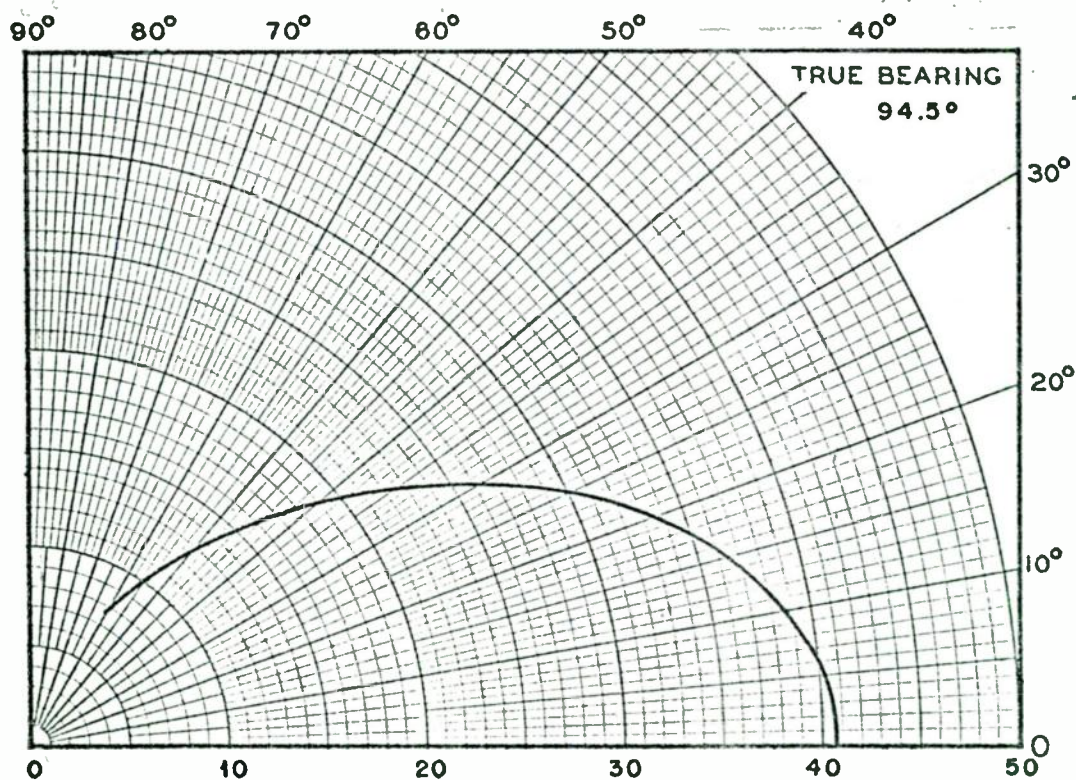
FROM PROPOSED WHOT TOWARD WPOW POINT NO. 1

FIGURE 6-K

PROPOSED VERTICAL PLANE PATTERNS



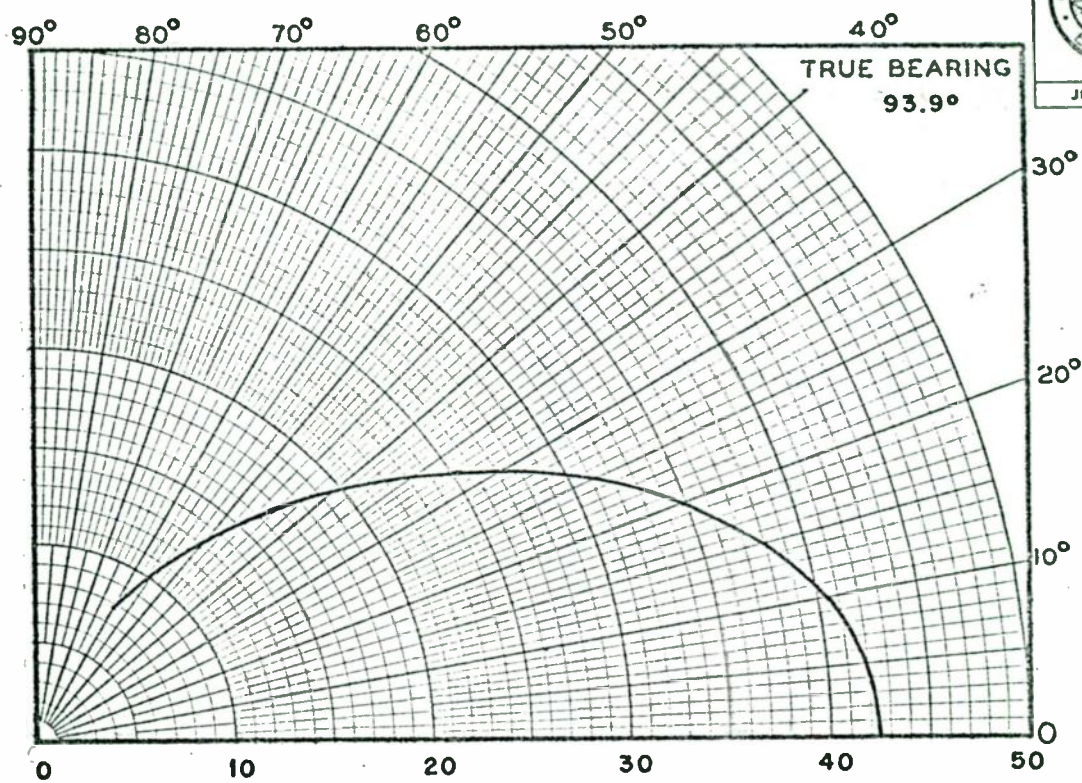
FROM PROPOSED WHOT TOWARD WPOW POINT NO. 2



FROM PROPOSED WHOT TOWARD WPOW POINT NO. 3

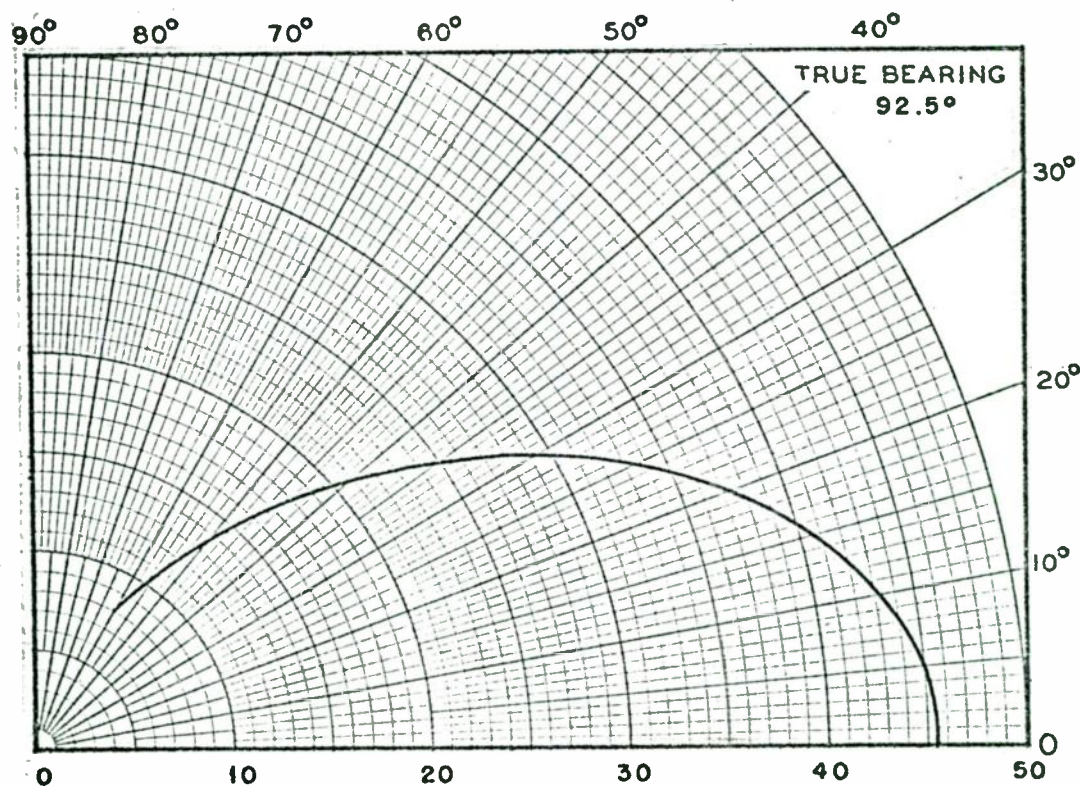
FIGURE 6-M
FIGURE 6-L

PROPOSED VERTICAL PLANE PATTERNS



MV/M

FROM PROPOSED WHOT TOWARD WPOW POINT NO. 4



MV/M

FROM PROPOSED WHOT TOWARD WPOW POINT NO. 5

FIGURE 6-M

PROPOSED VERTICAL PLANE PATTERNS

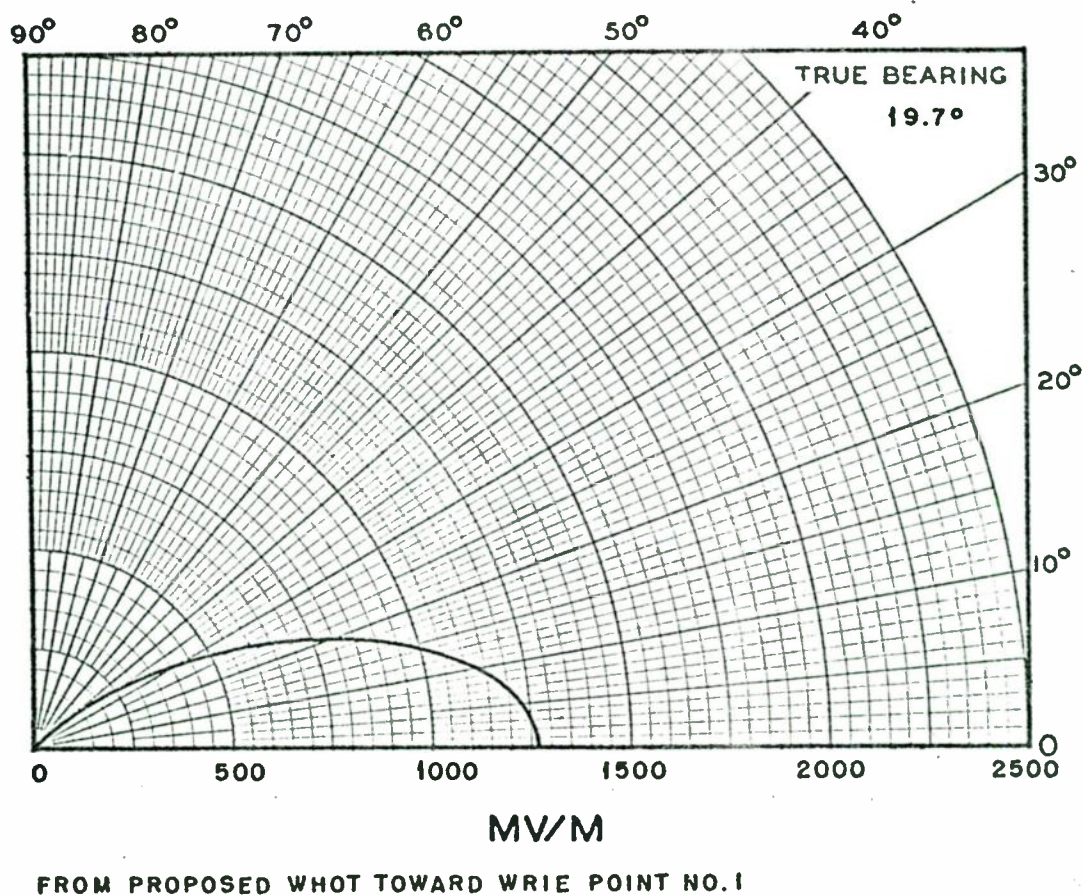
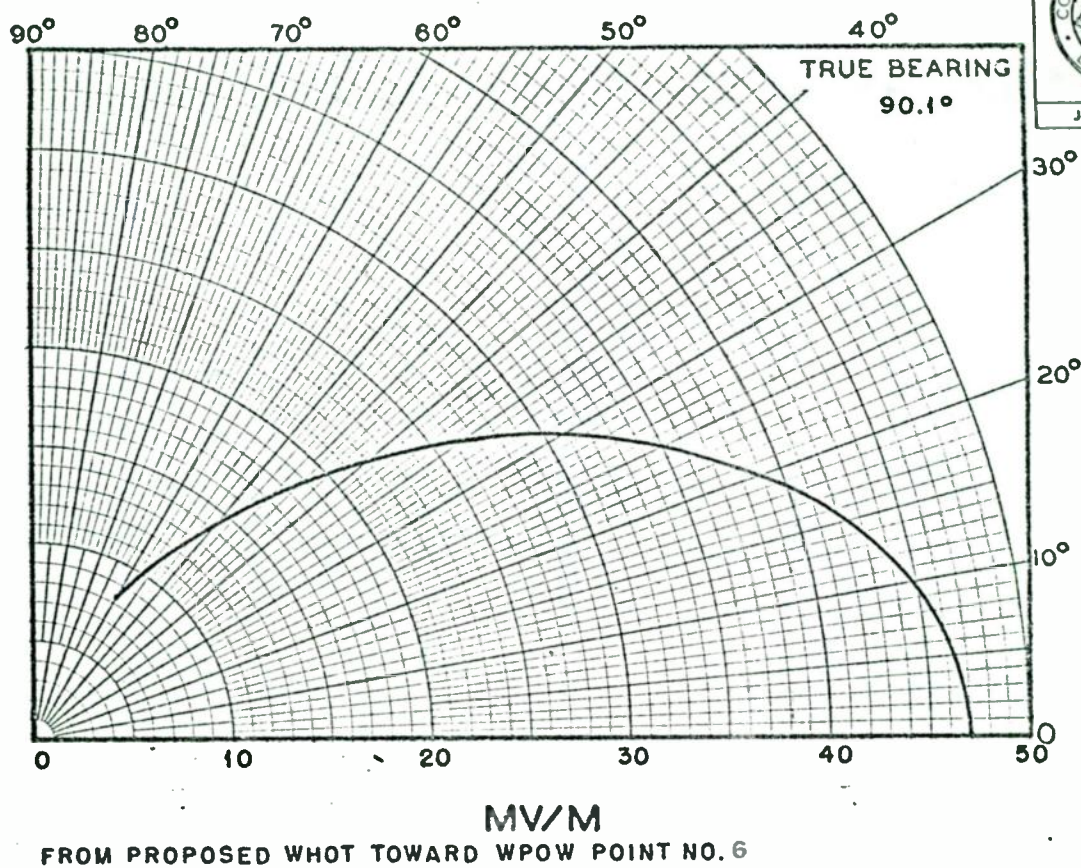
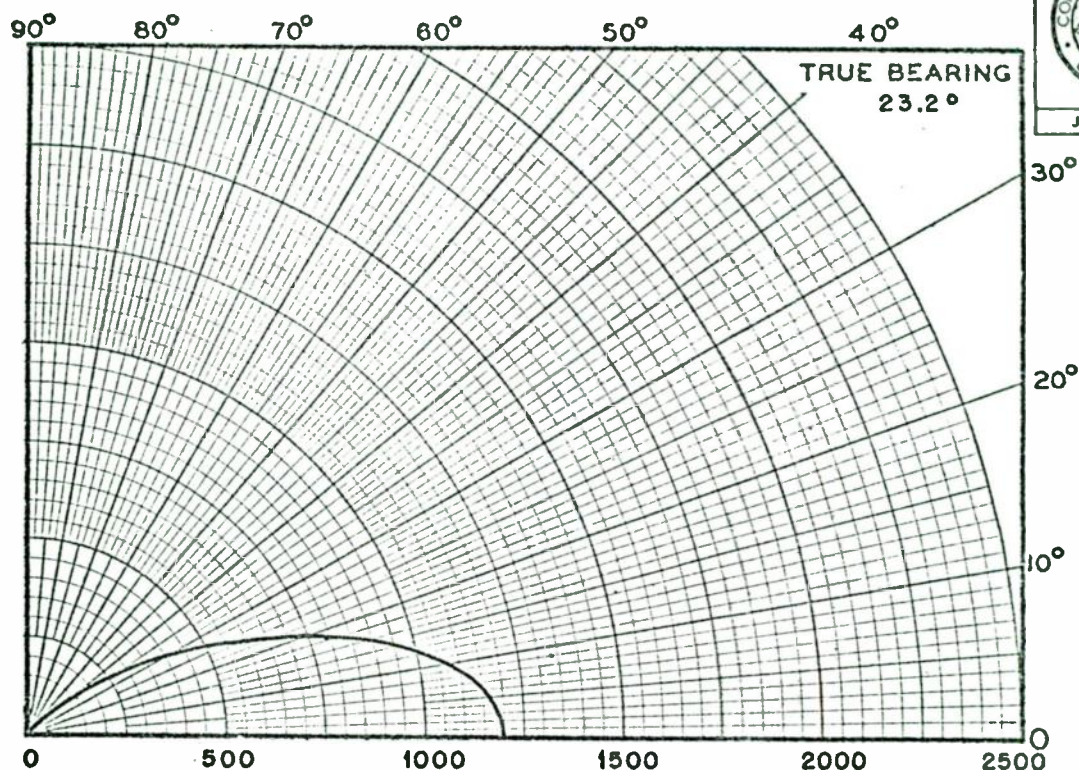
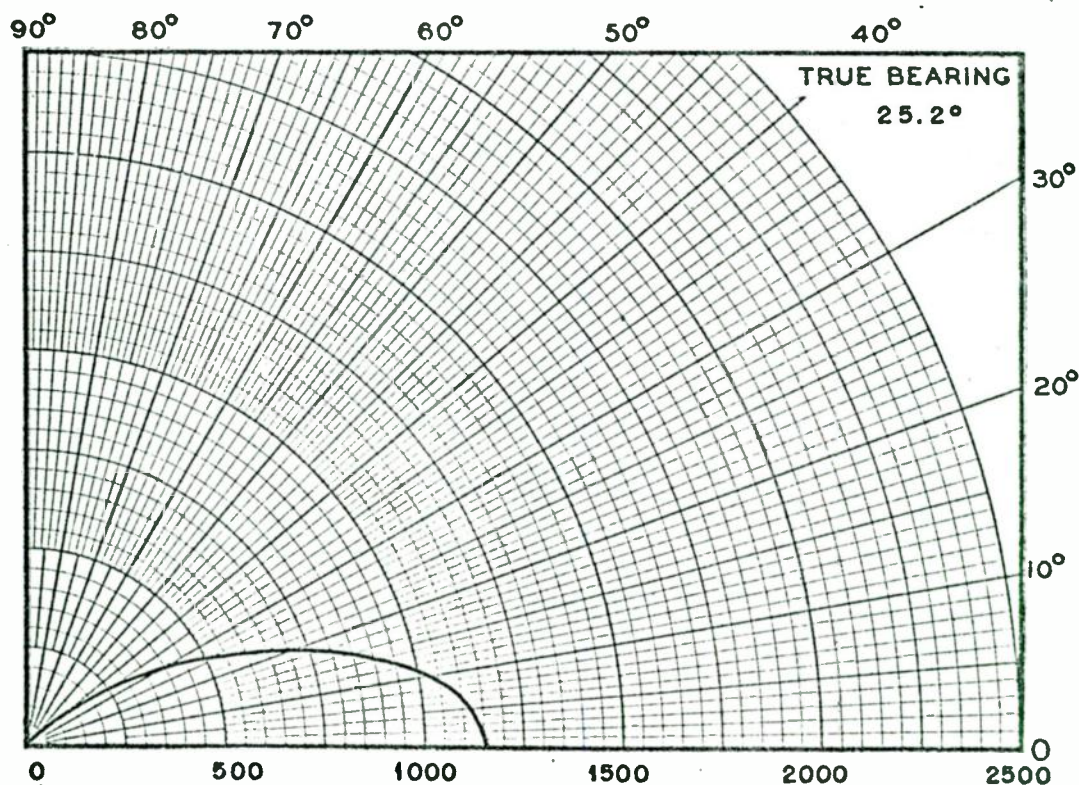


FIGURE 6-N

PROPOSED VERTICAL PLANE PATTERNS



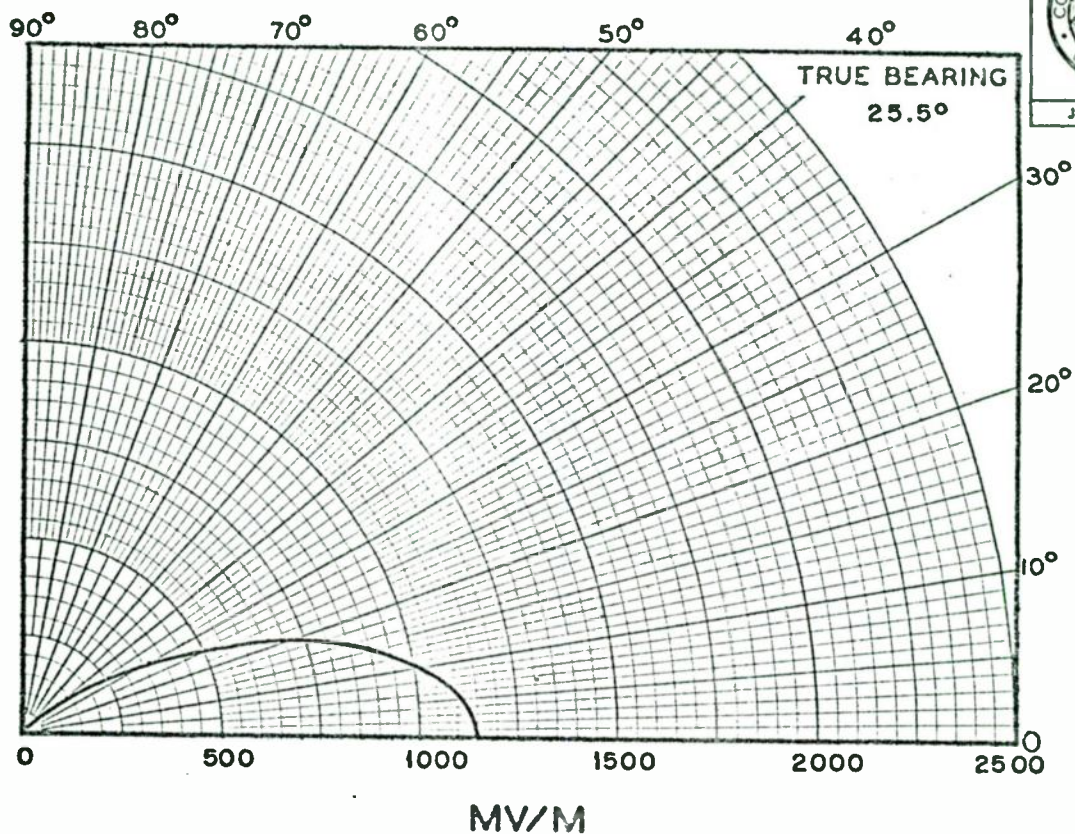
FROM PROPOSED WHOT TOWARD WRIE POINT NO.2



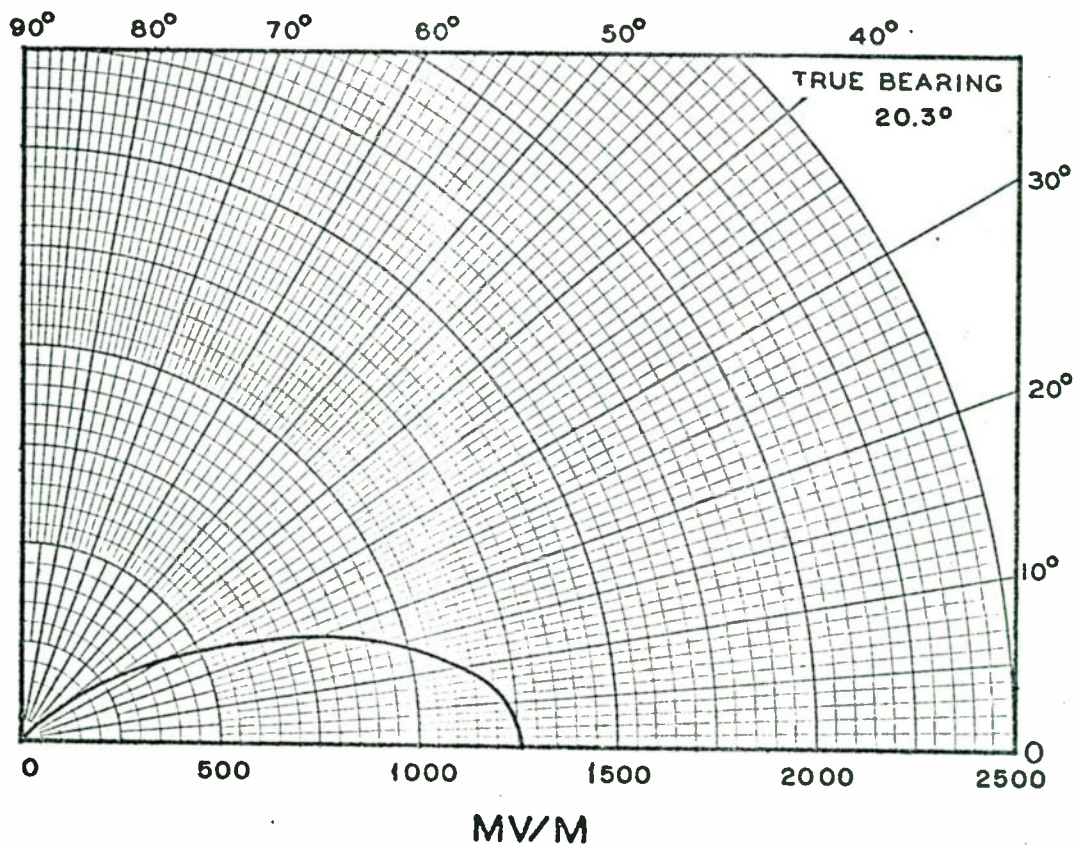
FROM PROPOSED WHOT TOWARD WRIE POINT NO.3

FIGURE 6-0

PROPOSED VERTICAL PLANE PATTERNS



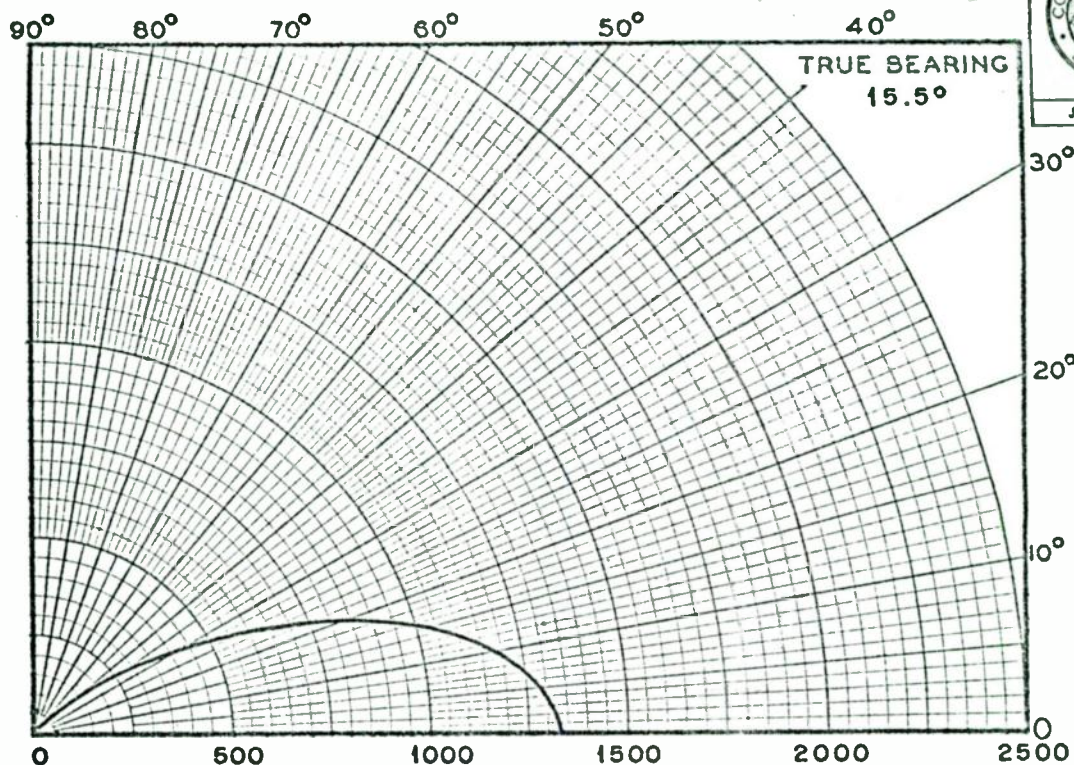
FROM PROPOSED WHOT TOWARD WRIE POINT NO. 4



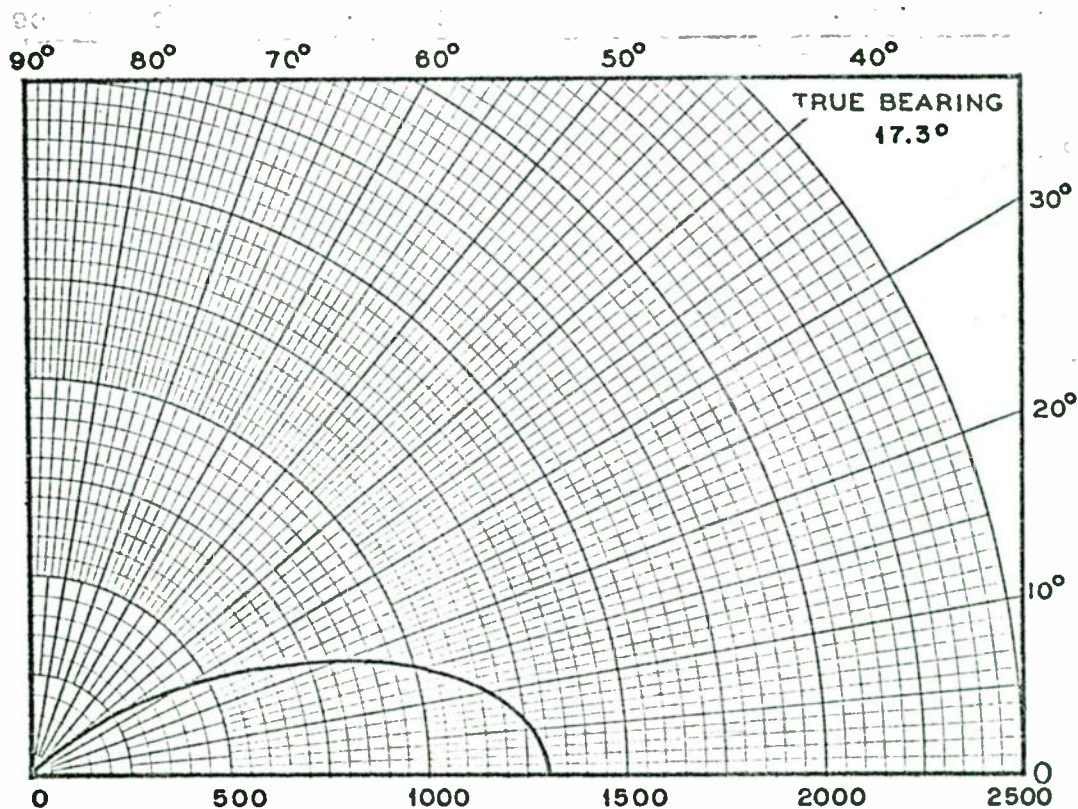
FROM PROPOSED WHOT TOWARD WRIE POINT NO. 5

FIGURE 6-P

PROPOSED VERTICAL PLANE PATTERNS



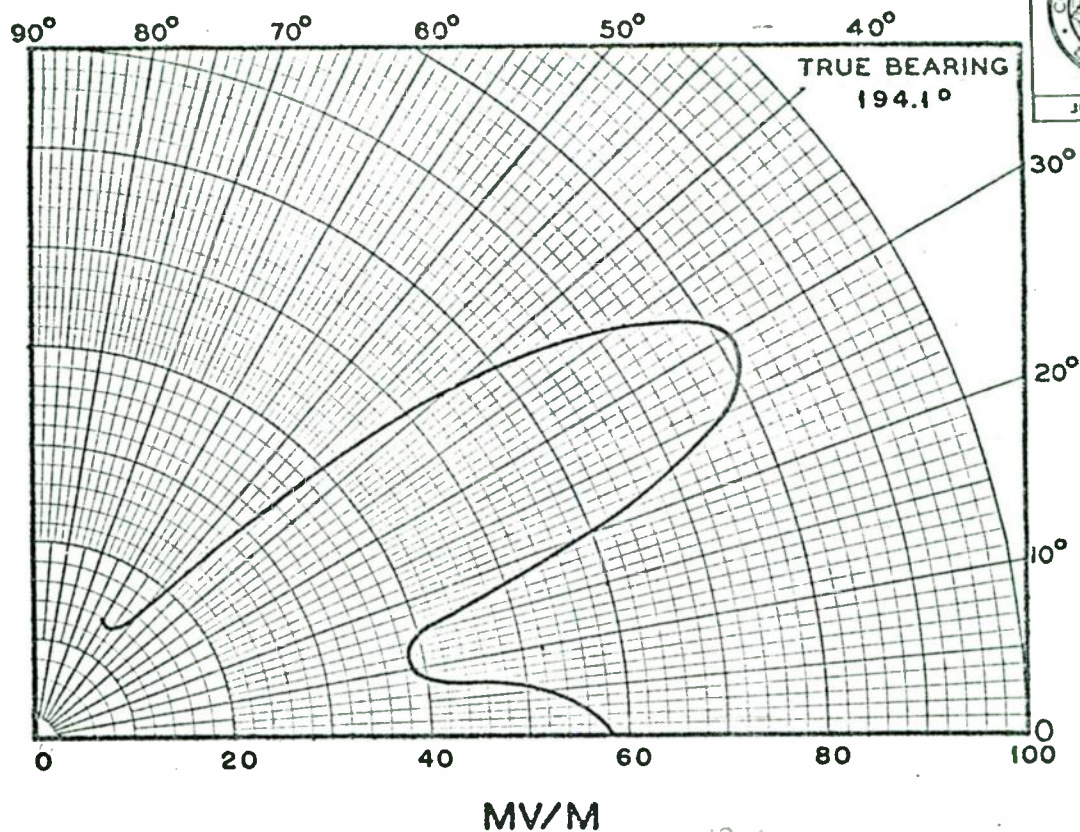
FROM PROPOSED WHOT TOWARD WRIE POINT NO. 6



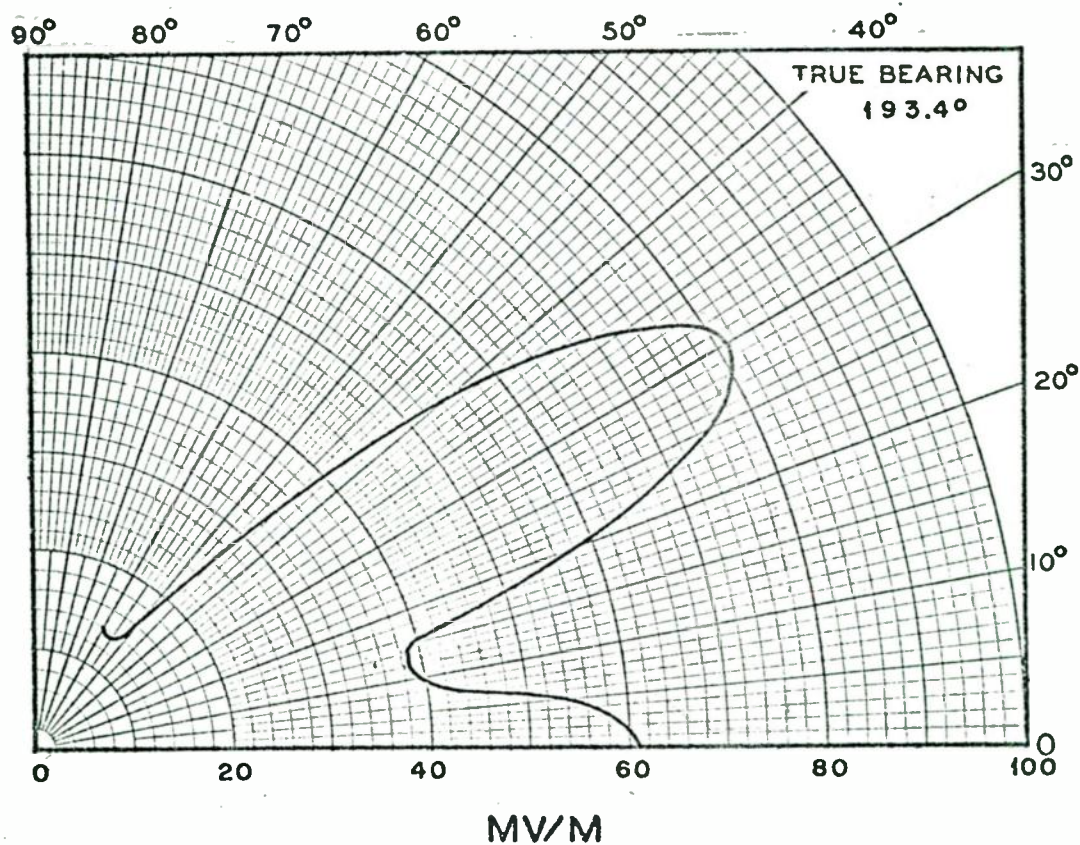
FROM PROPOSED WHOT TOWARD WRIE POINT NO. 7

FIGURE 6-R
FIGURE 6-Q

PROPOSED VERTICAL PLANE PATTERNS



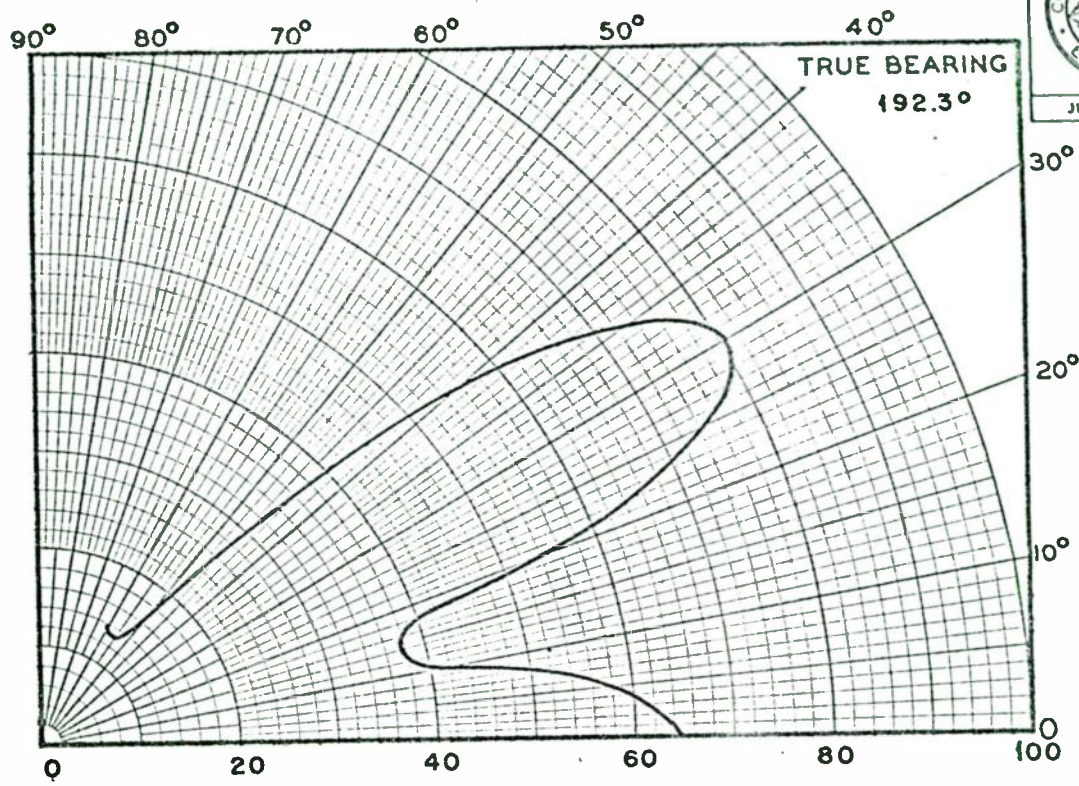
FROM PROPOSED WHOT TOWARD WFBC POINT NO. 1



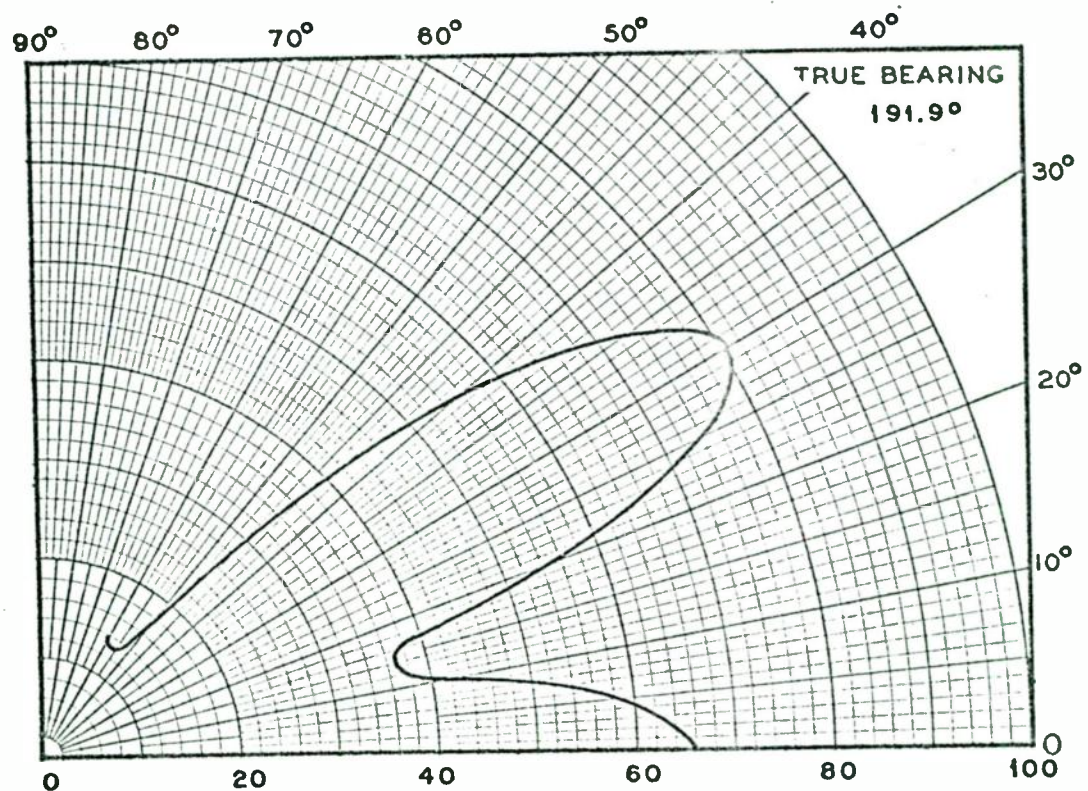
FROM PROPOSED WHOT TOWARD WFBC POINT NO. 2

FIGURE 6-S
FIGURE 6-R

PROPOSED VERTICAL PLANE PATTERNS



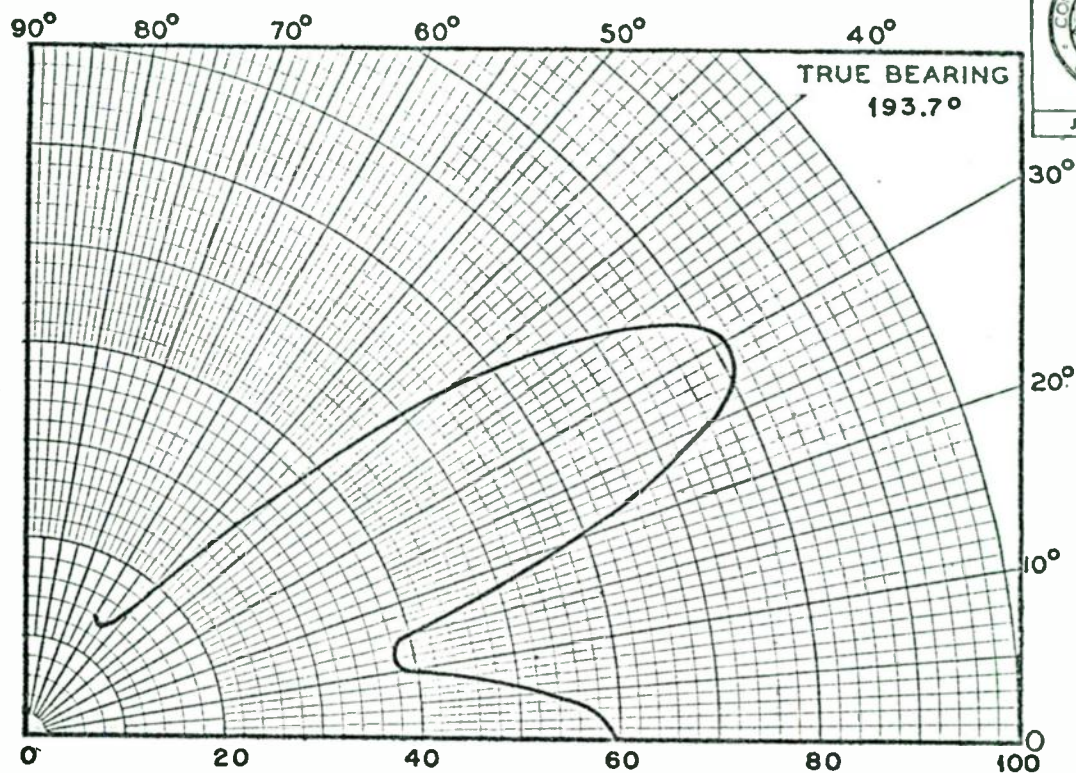
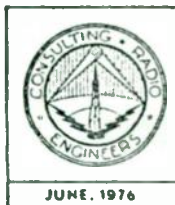
FROM PROPOSED WHOT TOWARD WFBC POINT NO. 3



FROM PROPOSED WHOT TOWARD WFBC POINT NO. 4

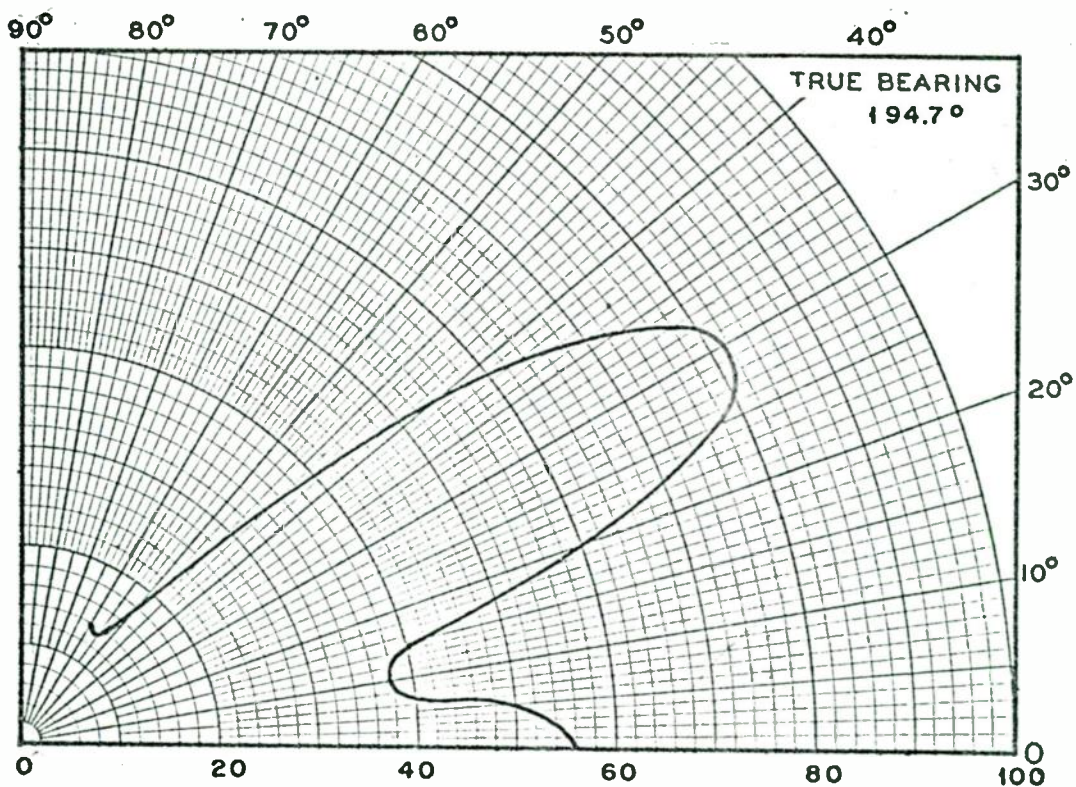
FIGURE 6-S

PROPOSED VERTICAL PLANE PATTERNS



MV/M

FROM PROPOSED WHOT TOWARD WFBC POINT NO. 5



MV/M

FROM PROPOSED WHOT TOWARD WFBC POINT NO. 6 AND 7

PROPOSED VERTICAL PLANE PATTERNS

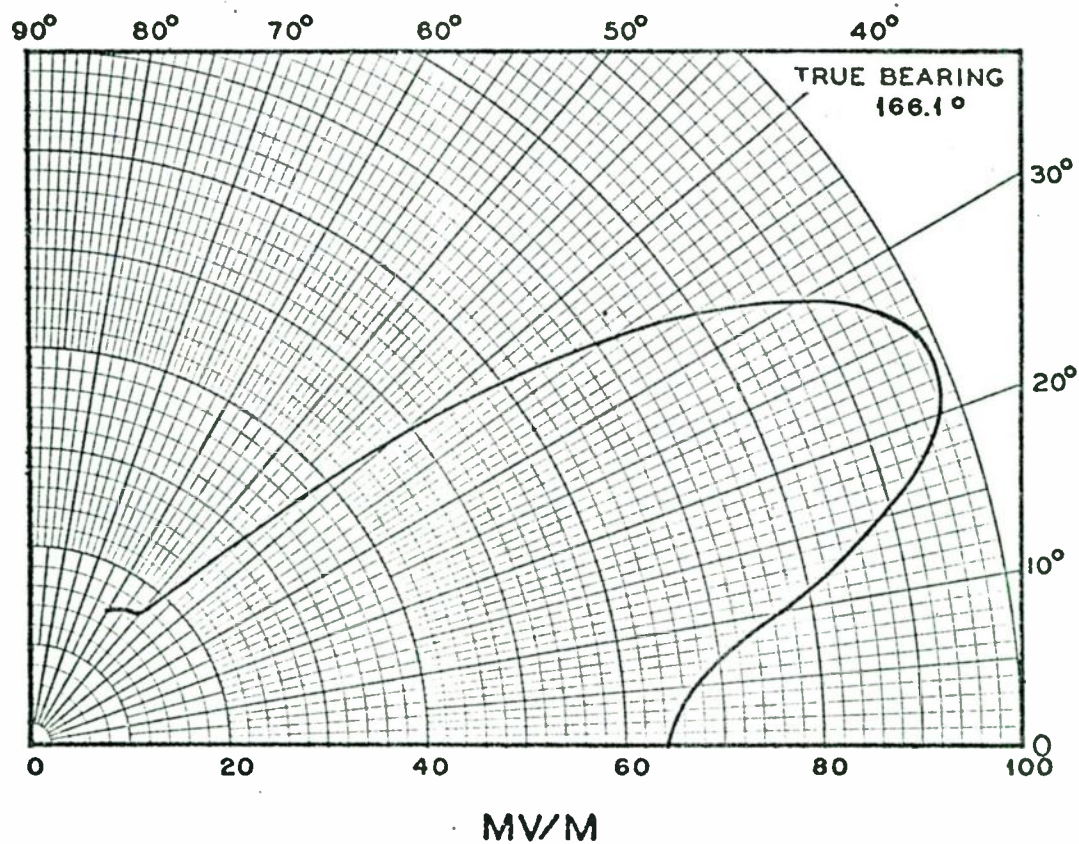
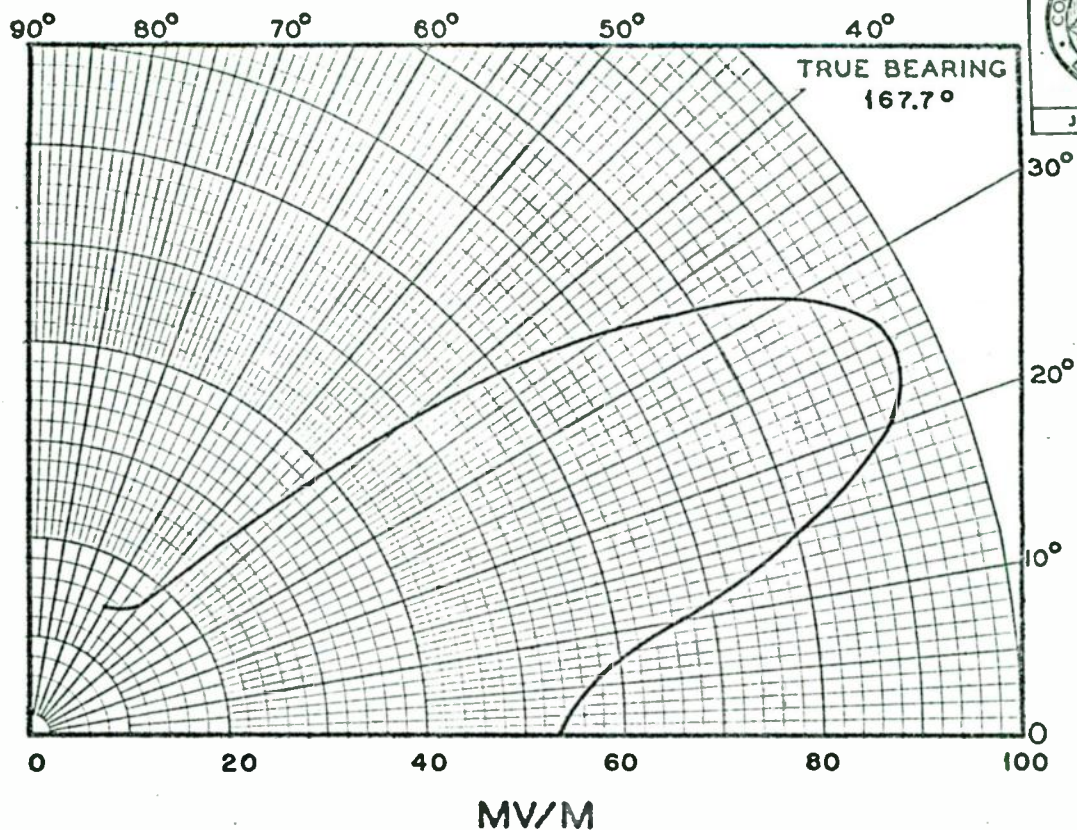
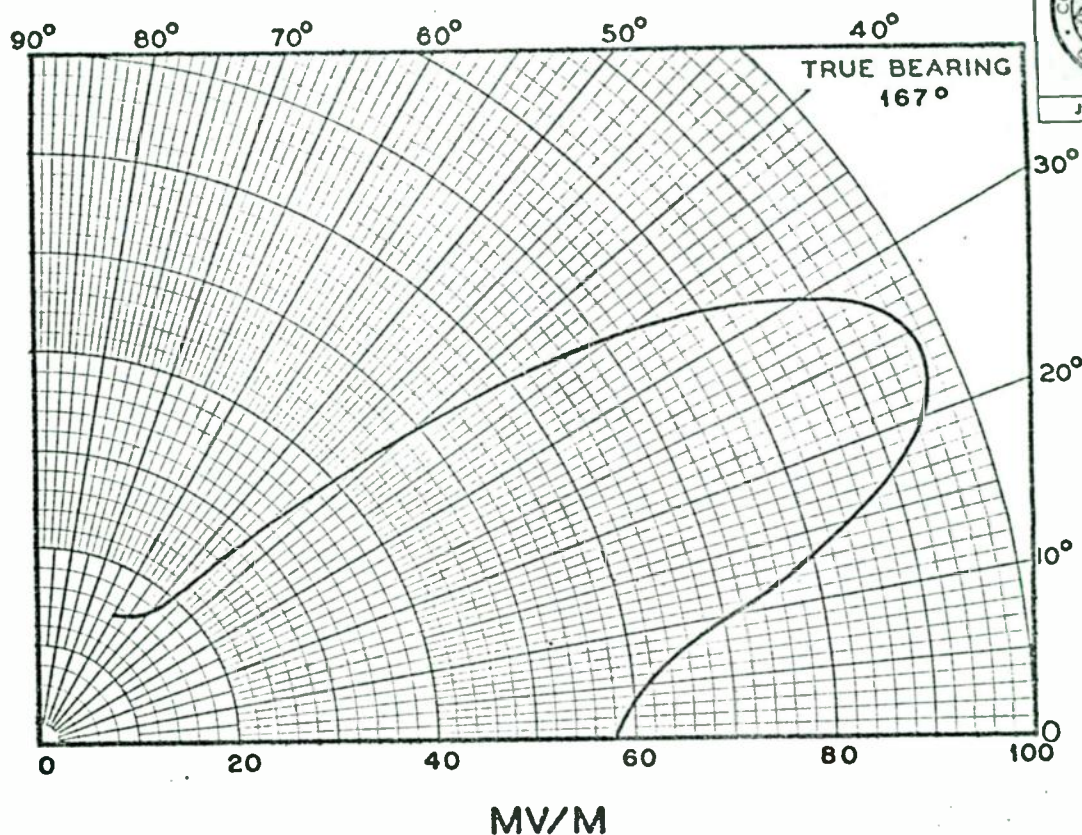
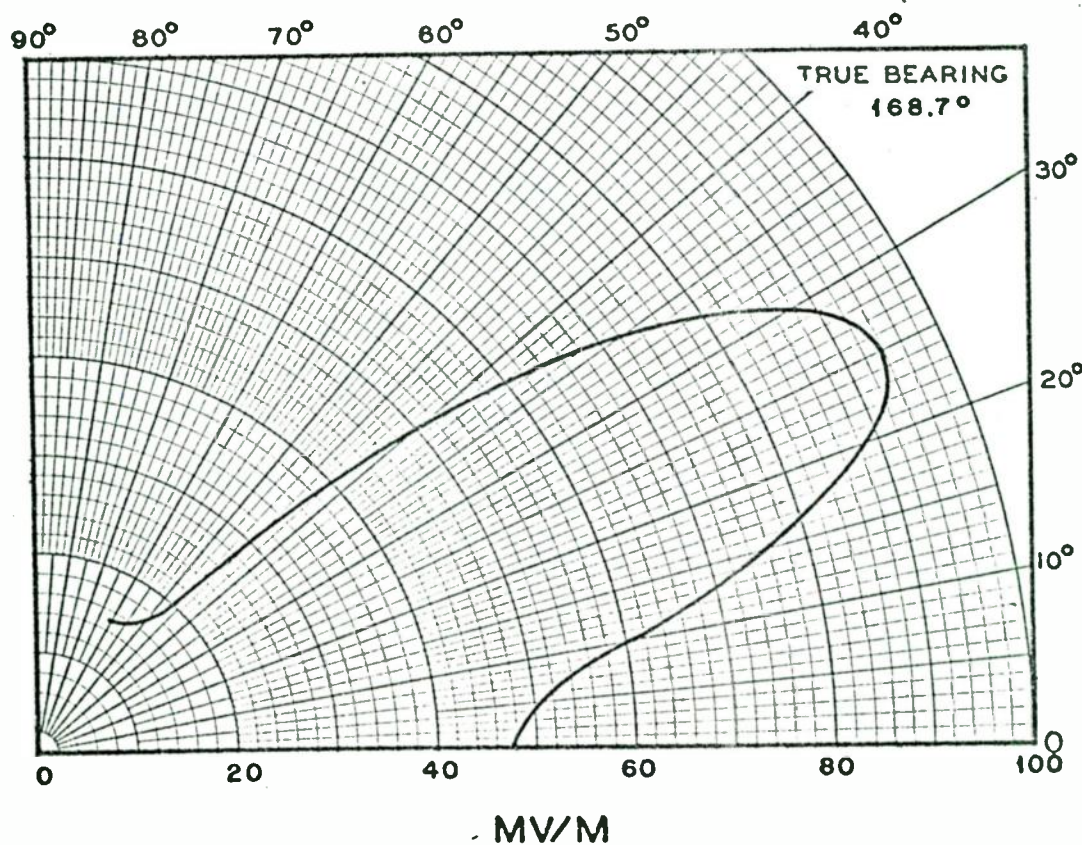


FIGURE 6-U

PROPOSED VERTICAL PLANE PATTERNS



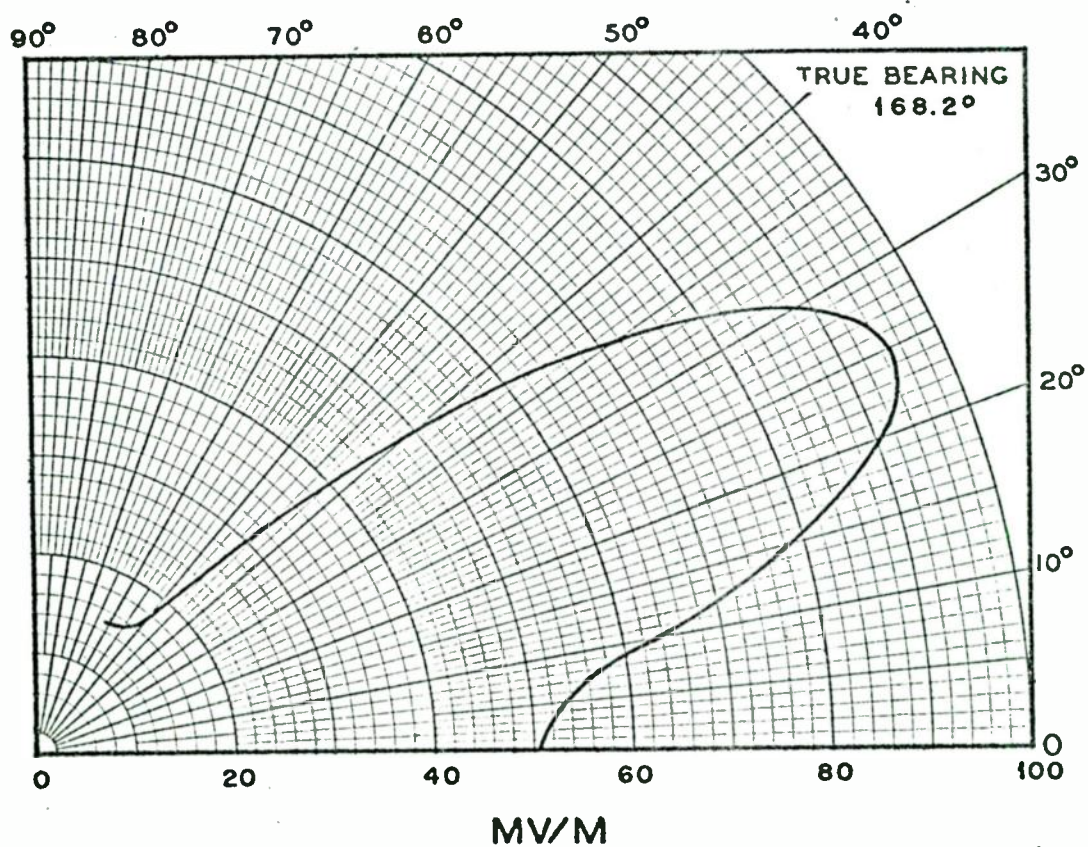
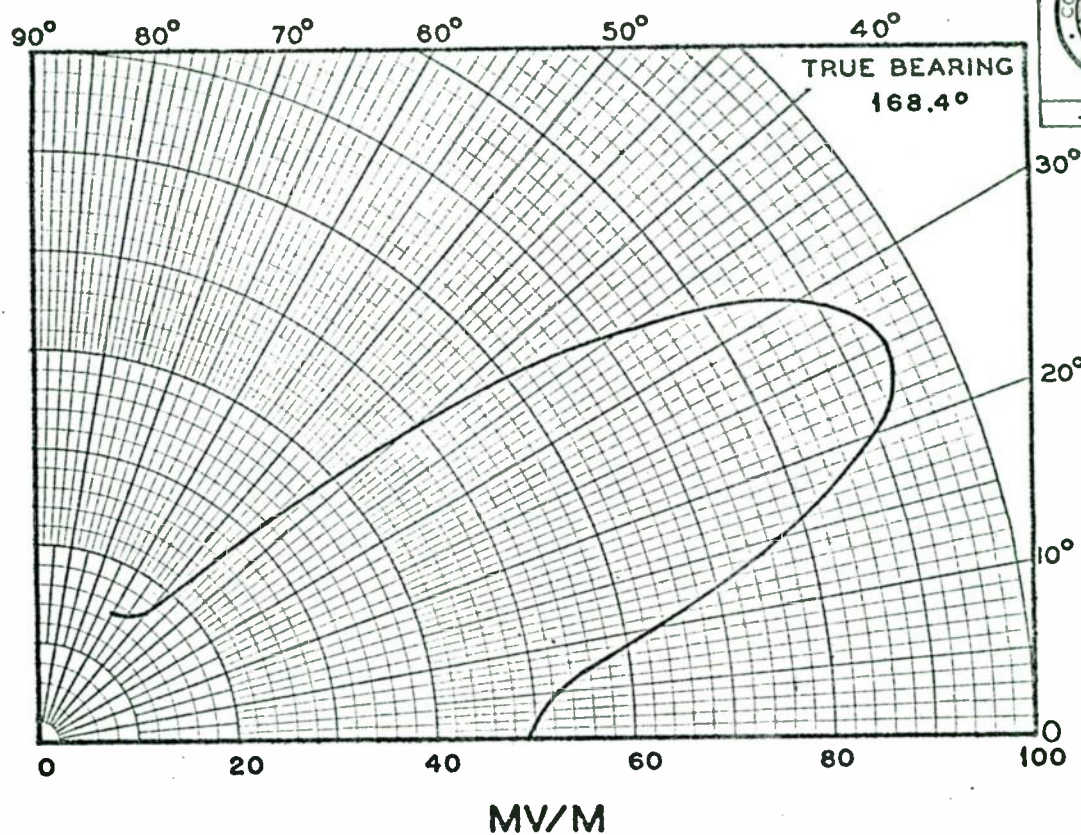
FROM PROPOSED WHOT TOWARD WBTM POINT NO. 3



FROM PROPOSED WHOT TOWARD WBTM POINT NO. 4

FIGURE 6-V

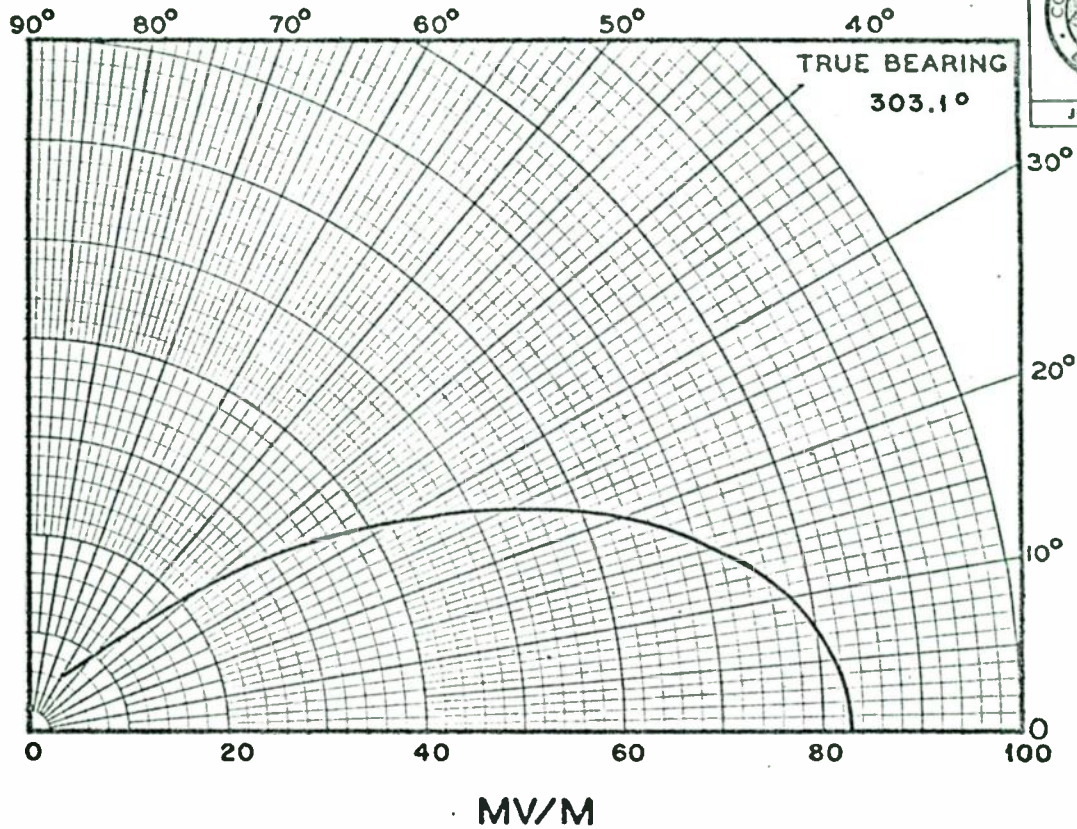
PROPOSED VERTICAL PLANE PATTERNS



FROM PROPOSED WHOT TOWARD WBTM POINT NO. 6

FIGURE 6 -W

PROPOSED VERTICAL PLANE PATTERNS



AC

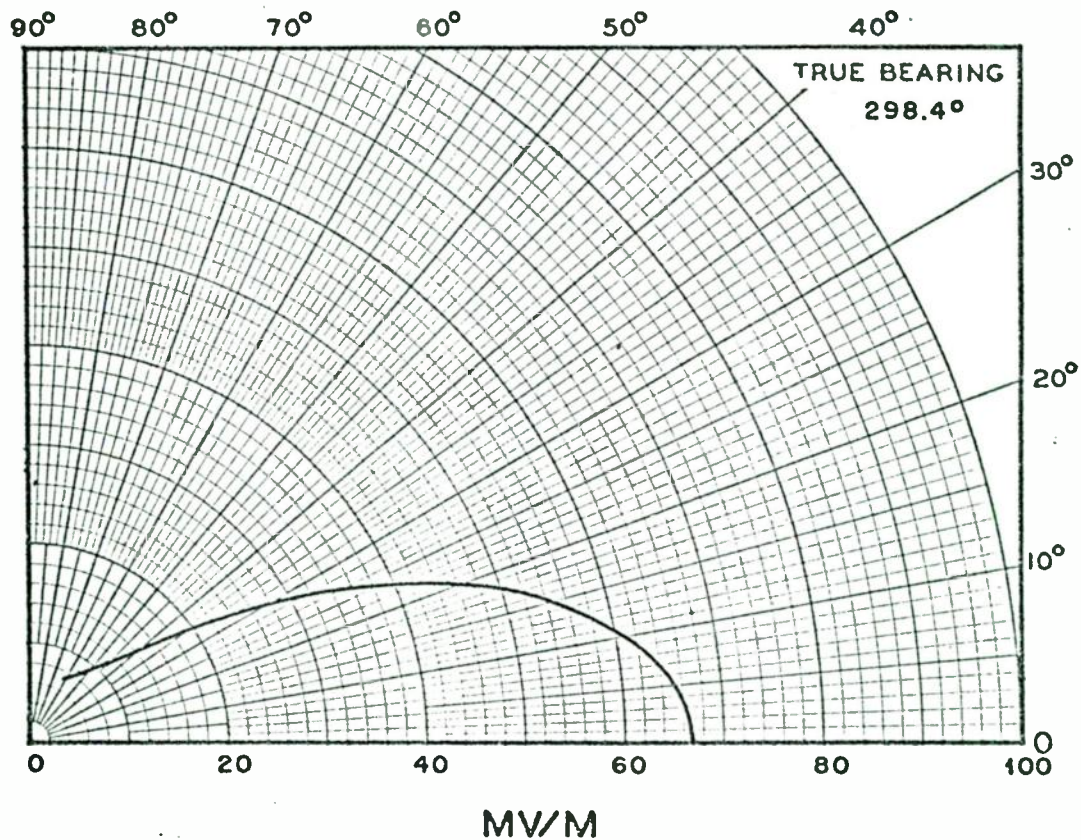
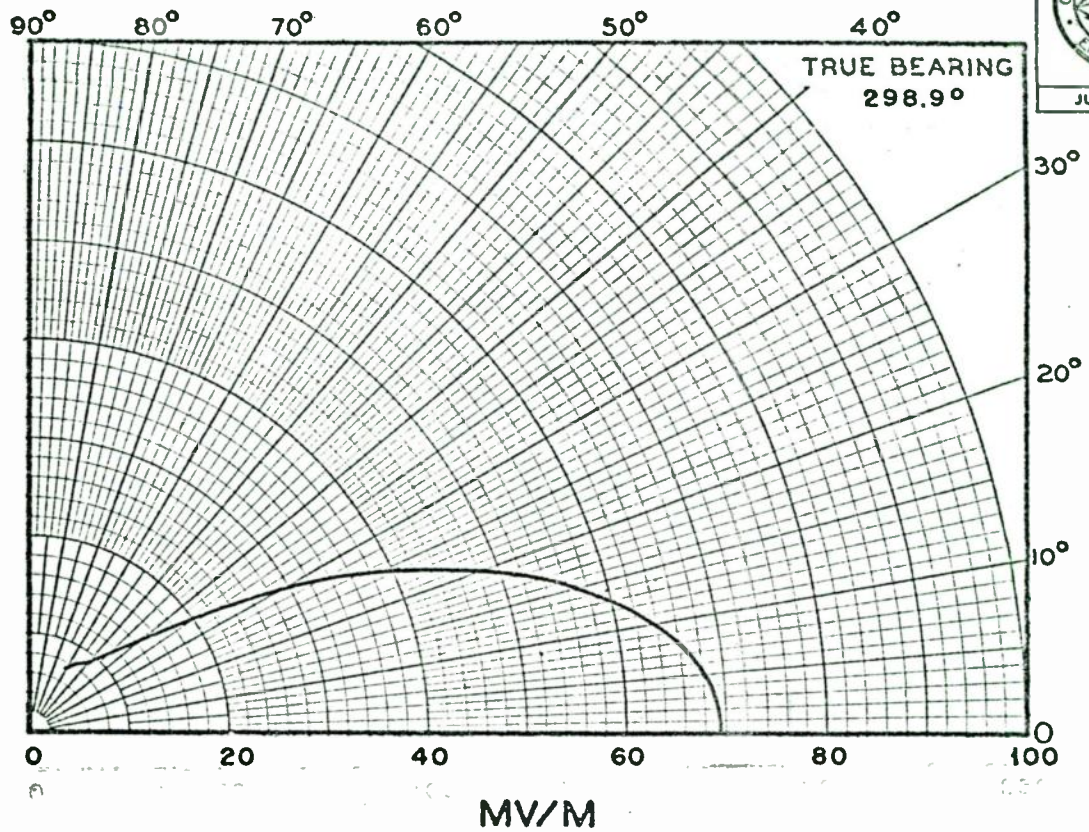
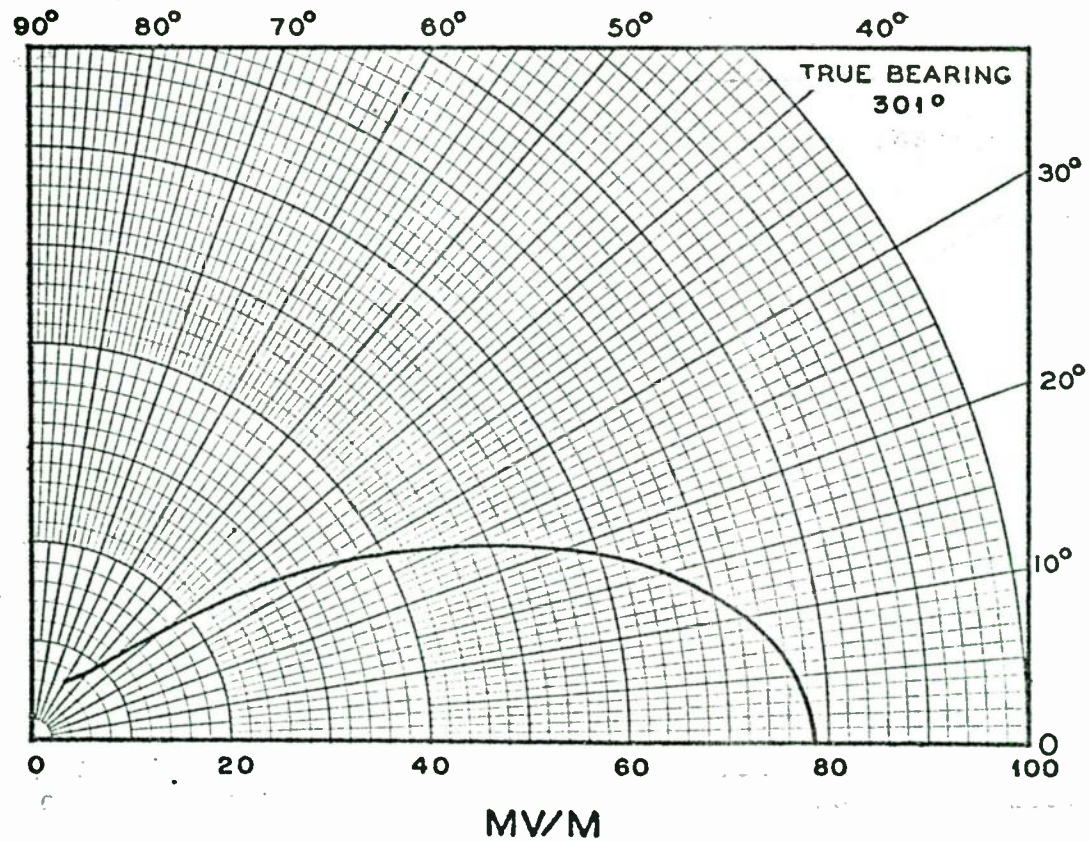


FIGURE 6 -X

PROPOSED VERTICAL PLANE PATTERNS



FROM PROPOSED WHOT TOWARD WHBL POINT NO. 3

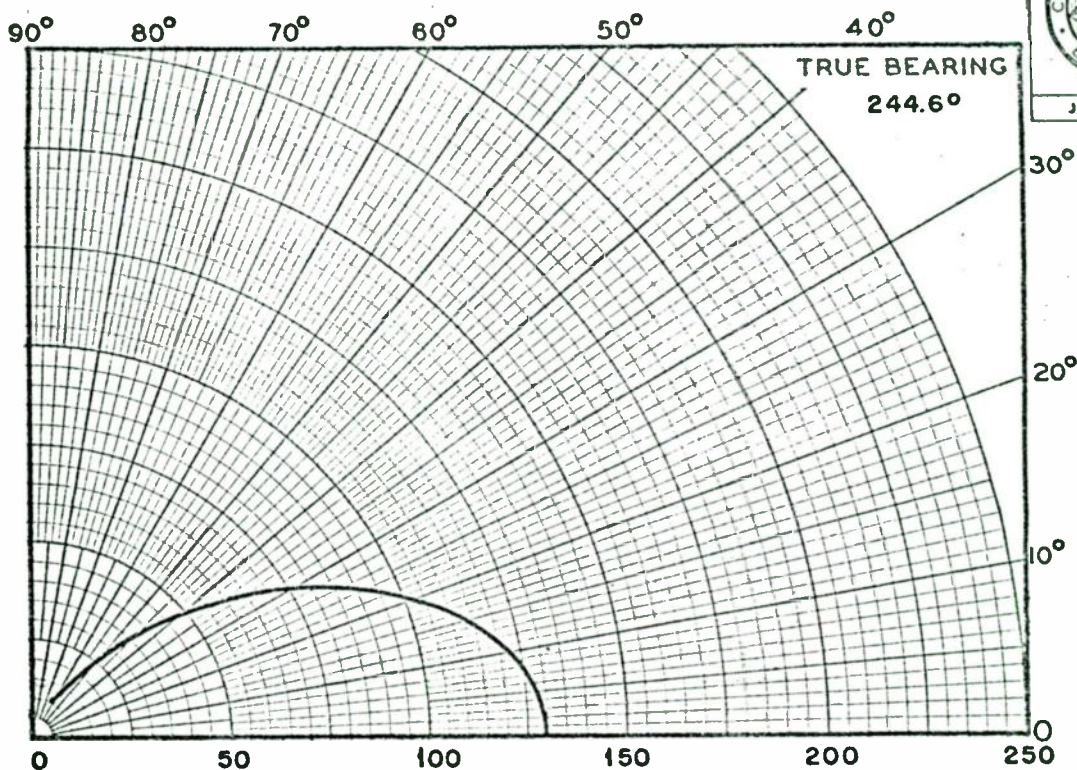
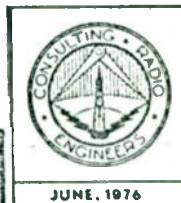


FROM PROPOSED WHOT TOWARD WHBL POINT NO. 4

FROM PROPOSED WHOT TOWARD WHBL POINT NO. 4

FIGURE 6-Y

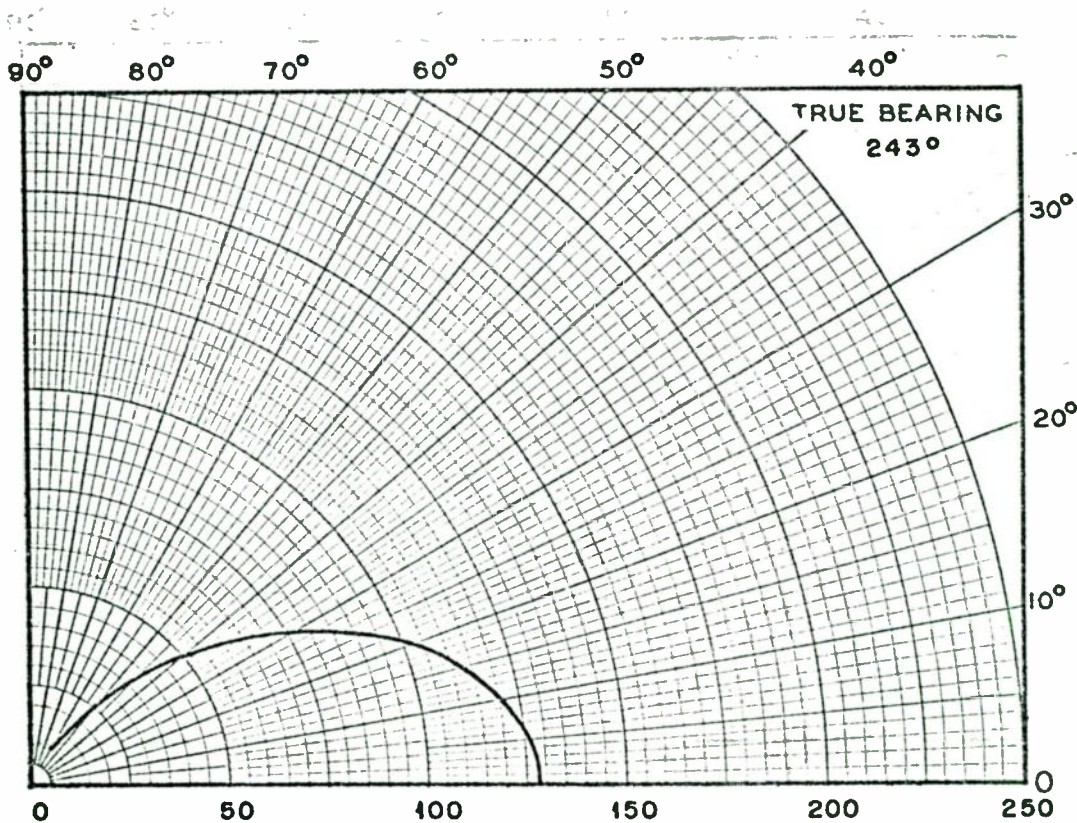
VERTICAL PLANE PATTERNS



FROM PRESENT WHOT TOWARD WJPS POINT NO. 1

MV/M

FROM PRESENT WHOT TOWARD WJPS POINT NO. 1



FROM PRESENT WHOT TOWARD WJPS POINT NO. 2

MV/M

FROM PRESENT WHOT TOWARD WJPS POINT NO. 2

FIGURE 6-2
FIGURE 6-2

VERTICAL PLANE PATTERNS

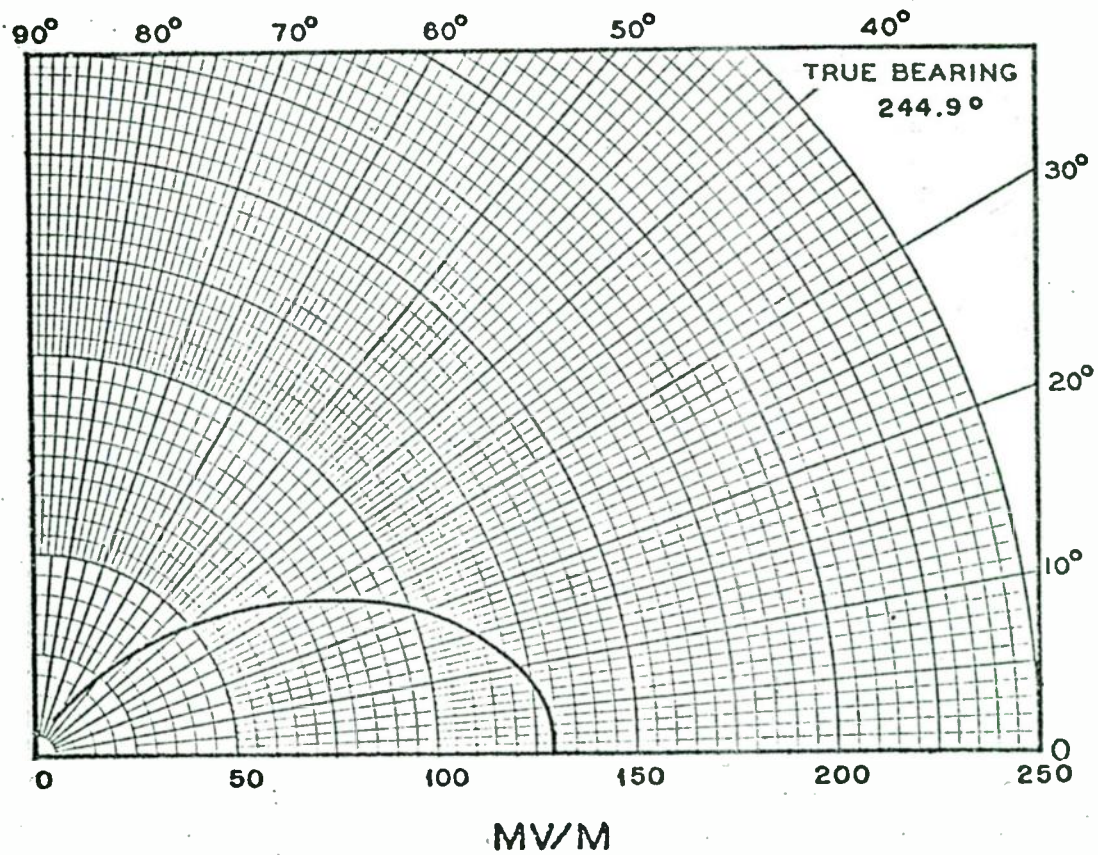
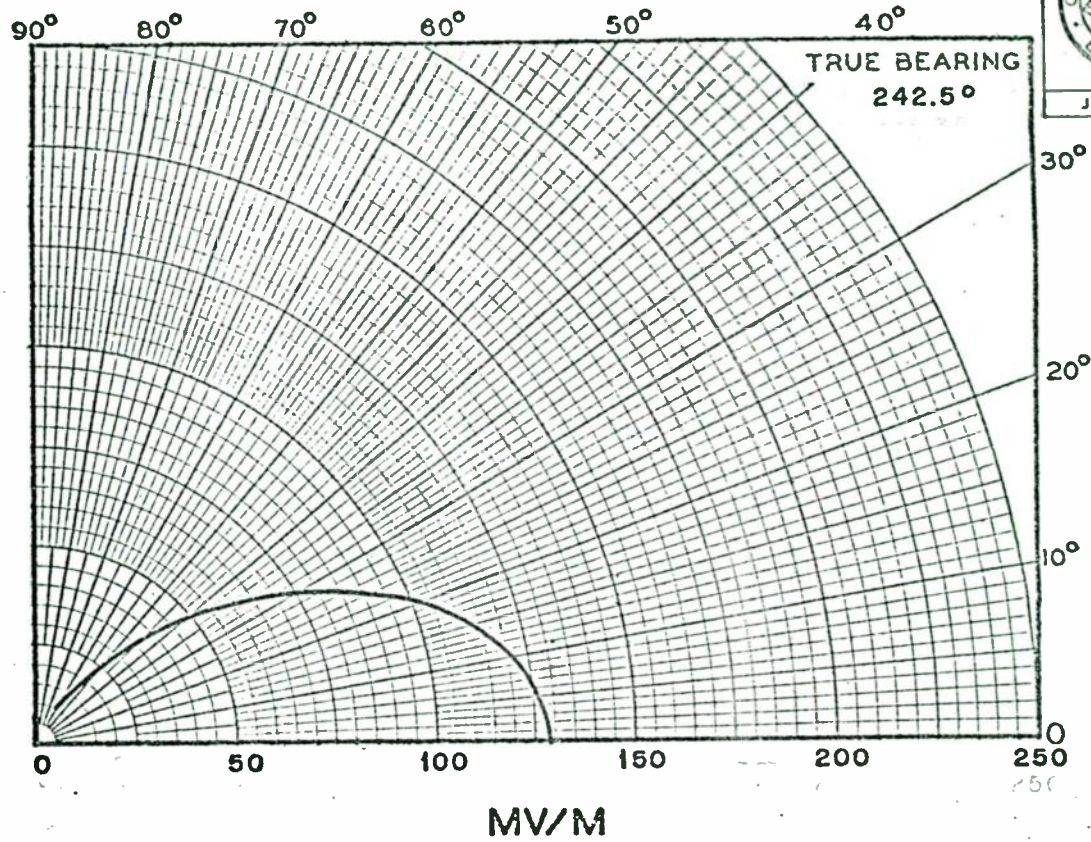
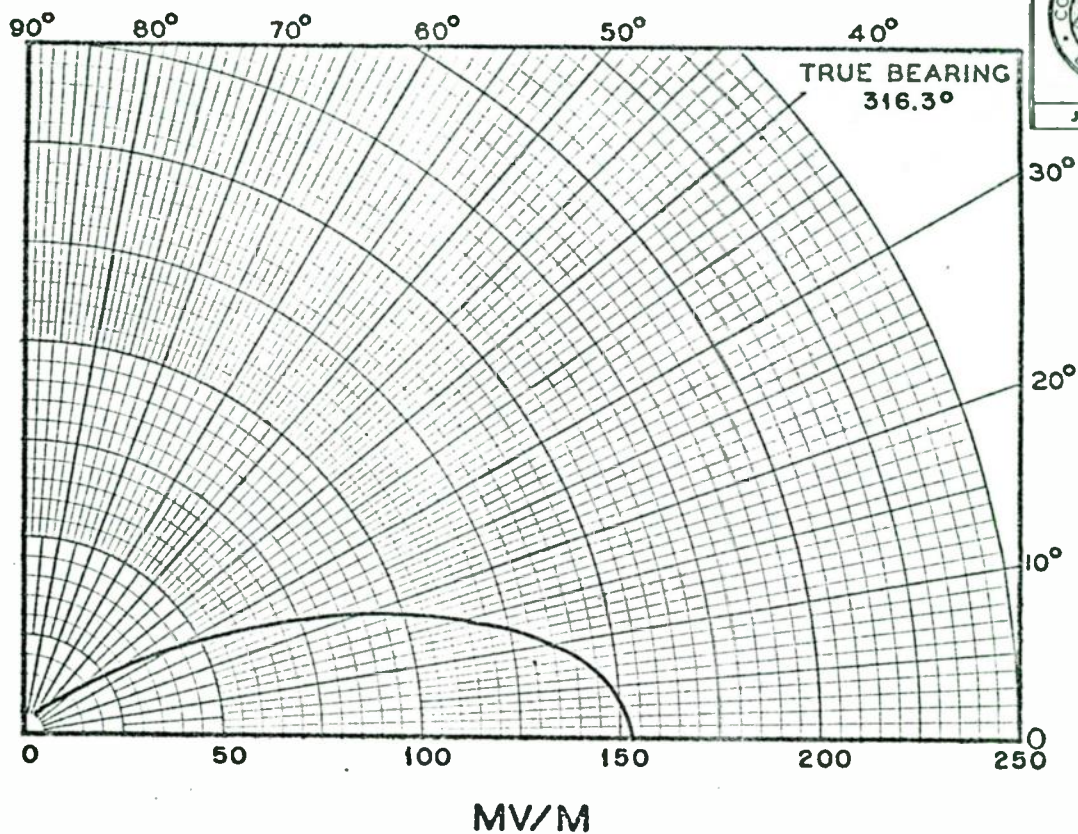
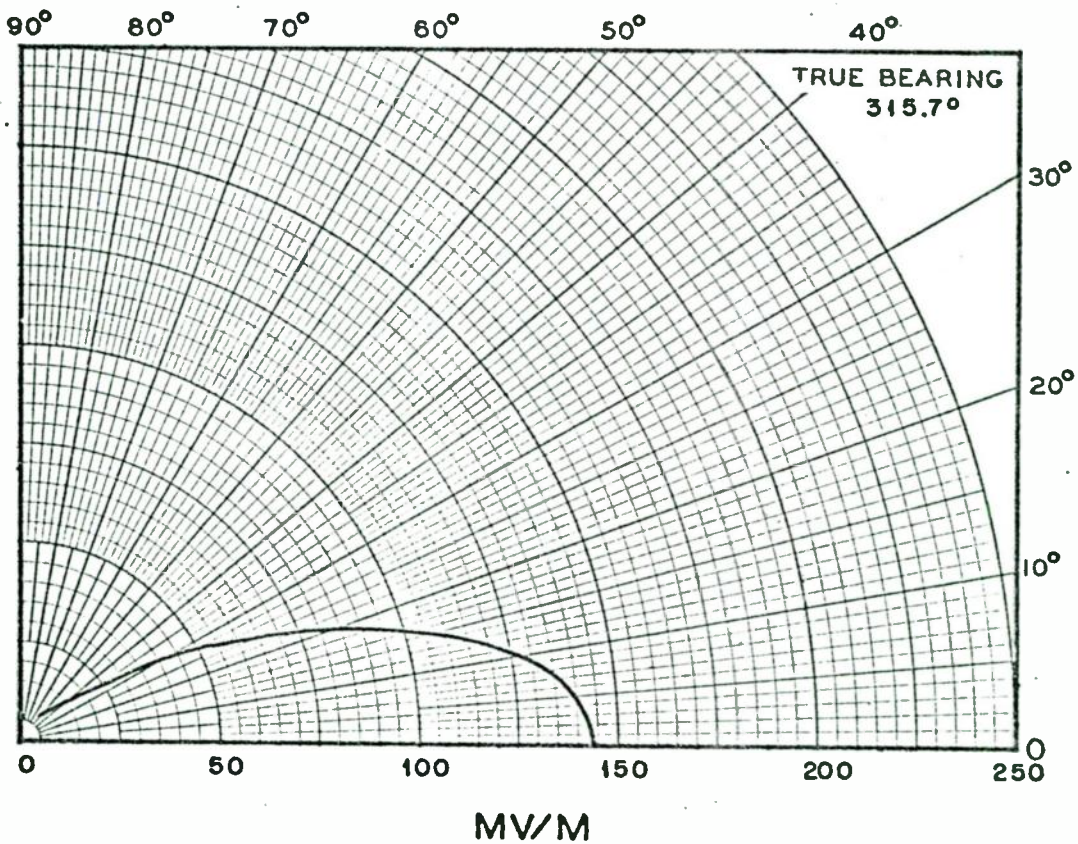


FIGURE 6-AA

VERTICAL PLANE PATTERNS



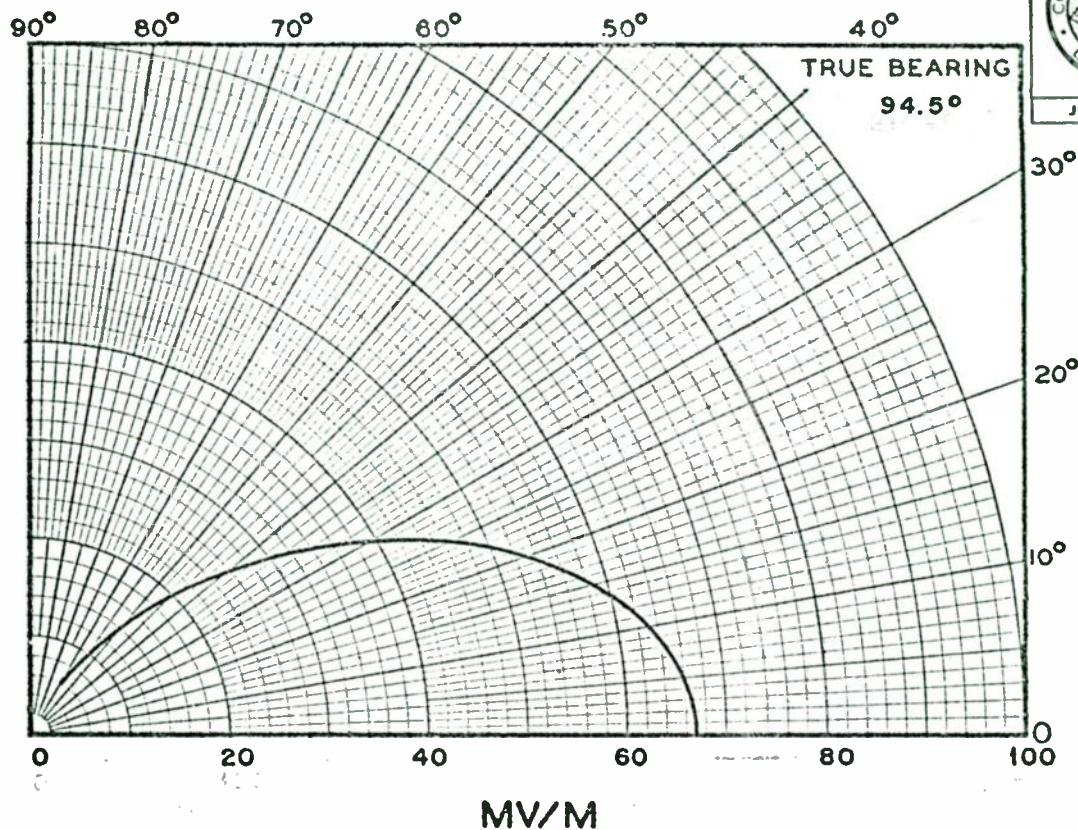
FROM PRESENT WHOT TOWARD WTRX POINT NO. 2 AND 3



FROM PRESENT WHOT TOWARD WTRX POINT NO. 4

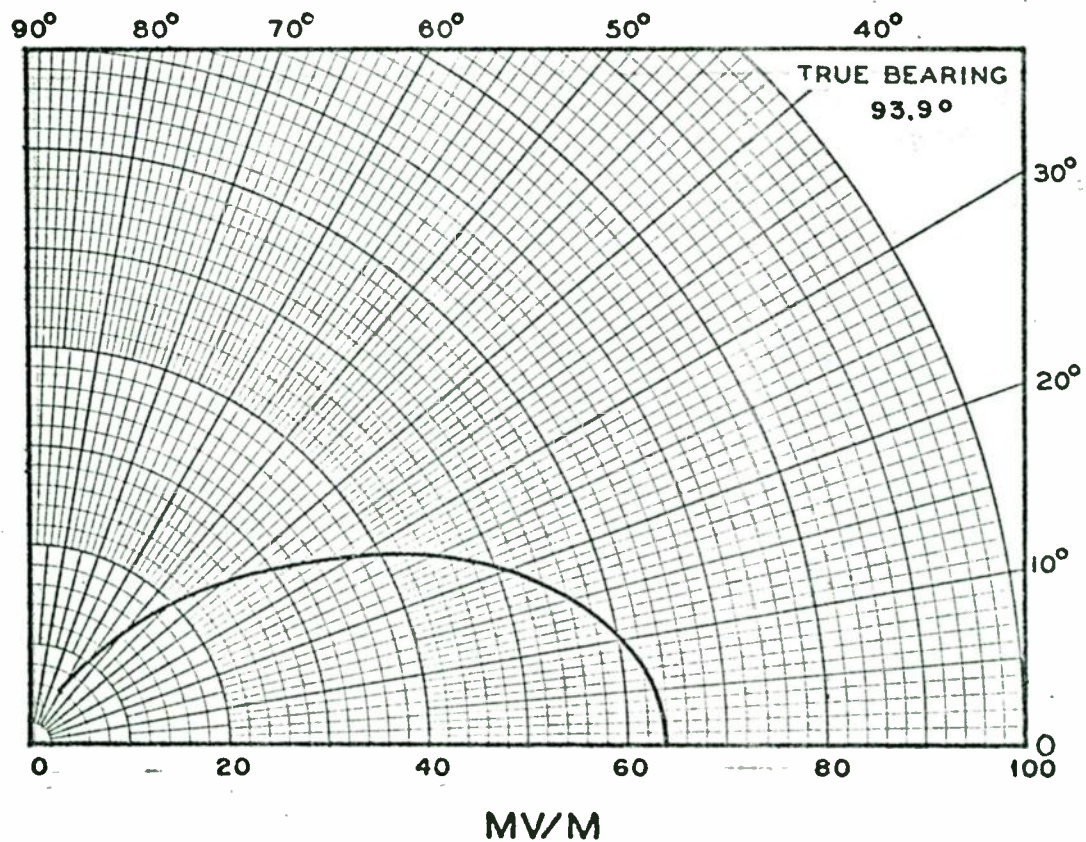
FIGURE 6-BB

VERTICAL PLANE PATTERNS



FROM PRESENT WHOT TOWARD WPOW POINT NO.3

AC



FROM PRESENT WHOT TOWARD WPOW POINT NO. 4

FROM WPOW POINT NO. 3 TOWARD WPOW POINT NO. 4

FIGURE 6 - CC

VERTICAL PLANE PATTERNS

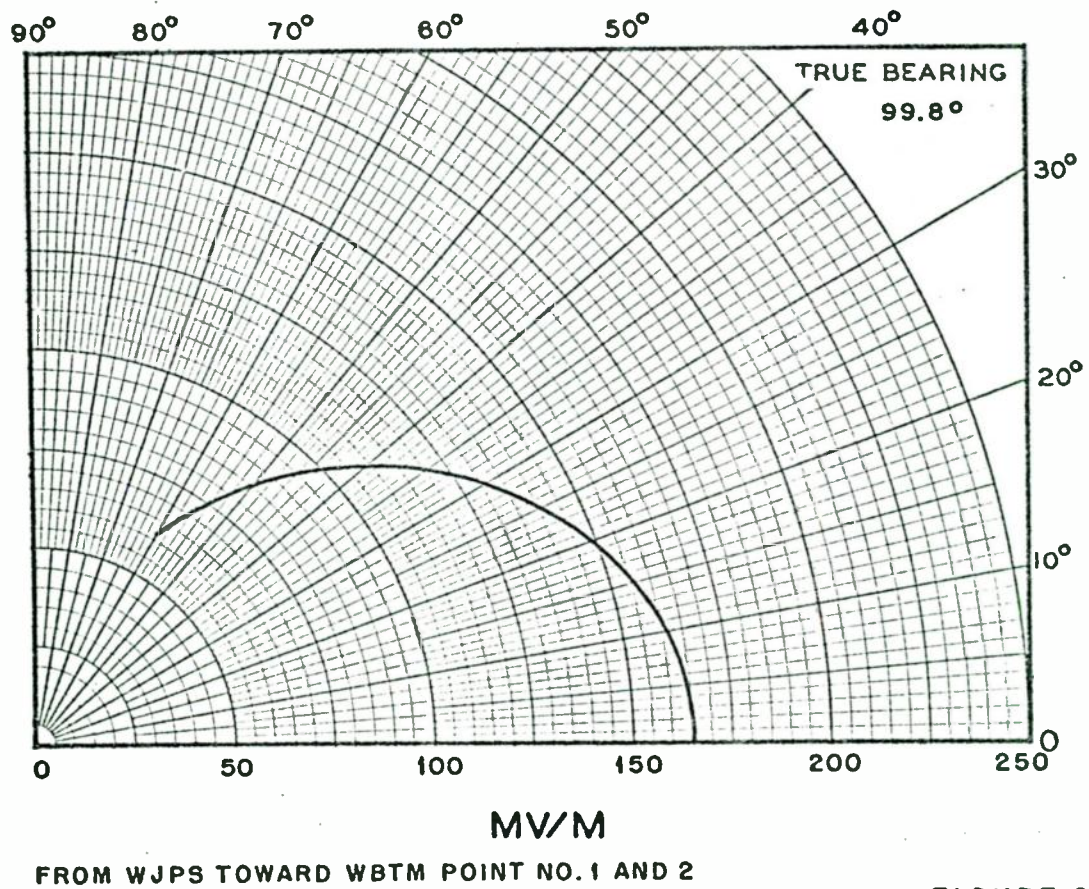
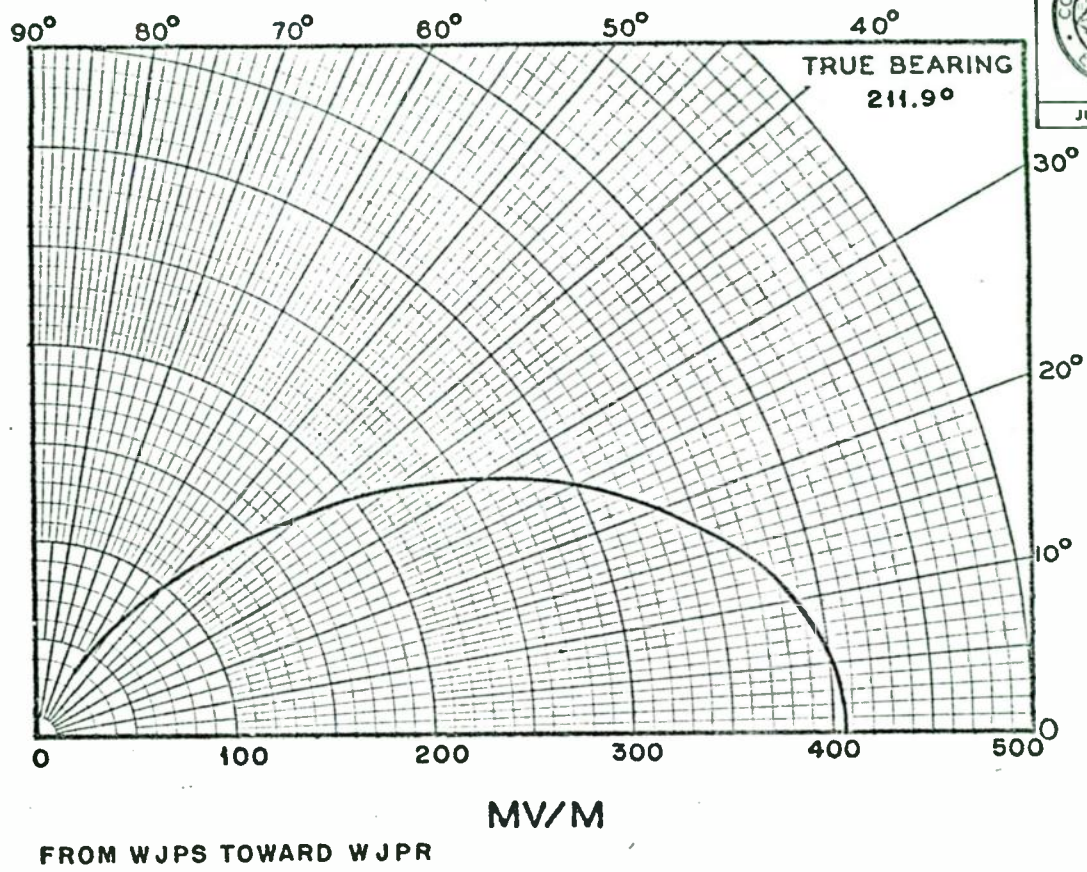
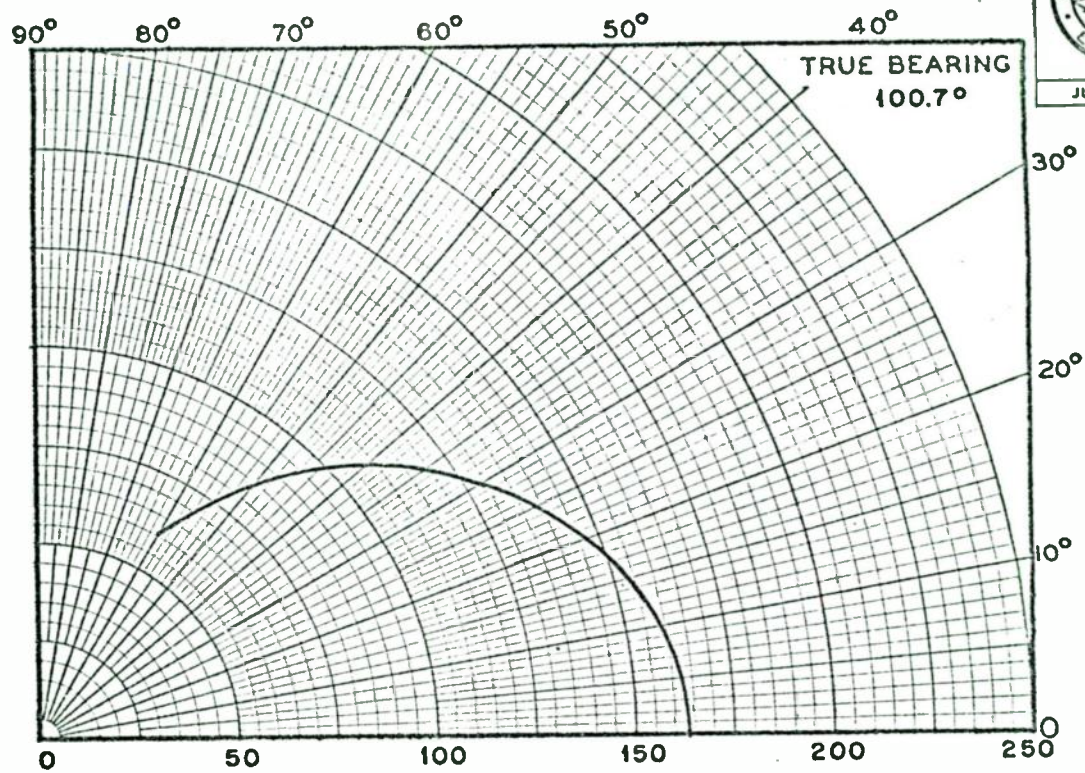


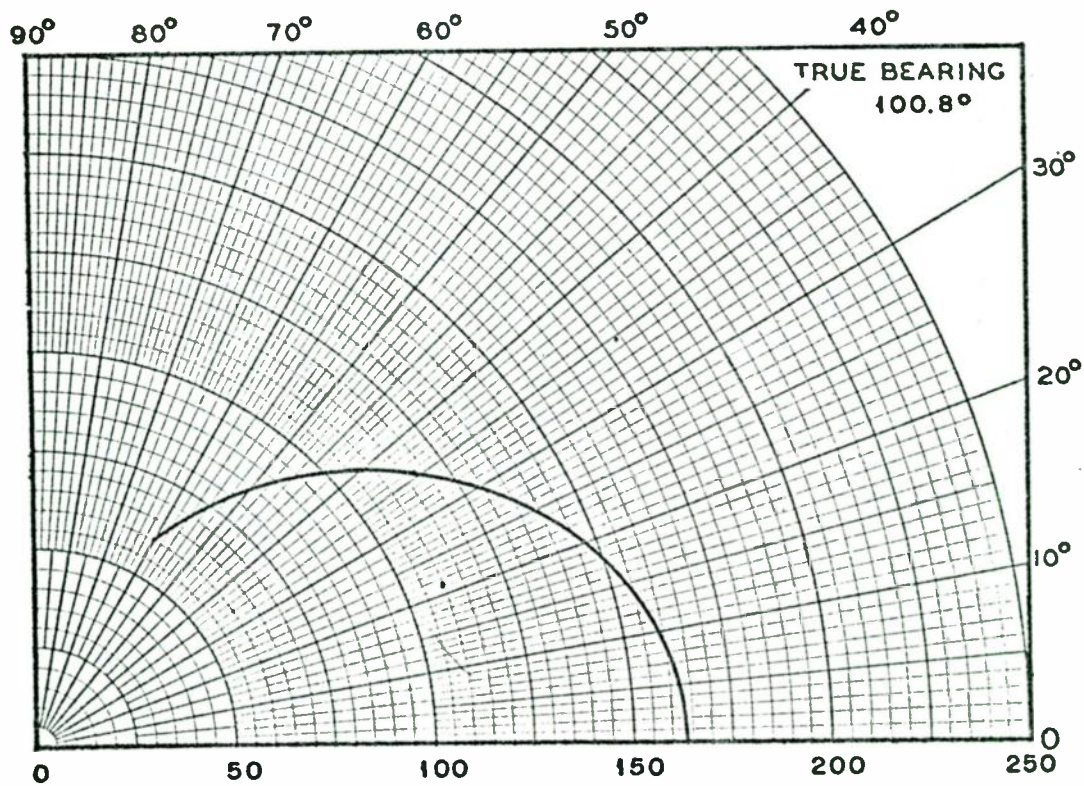
FIGURE 6-DD

VERTICAL PLANE PATTERNS



MV/M

FROM WJPS TOWARD WBTM POINT NO. 3

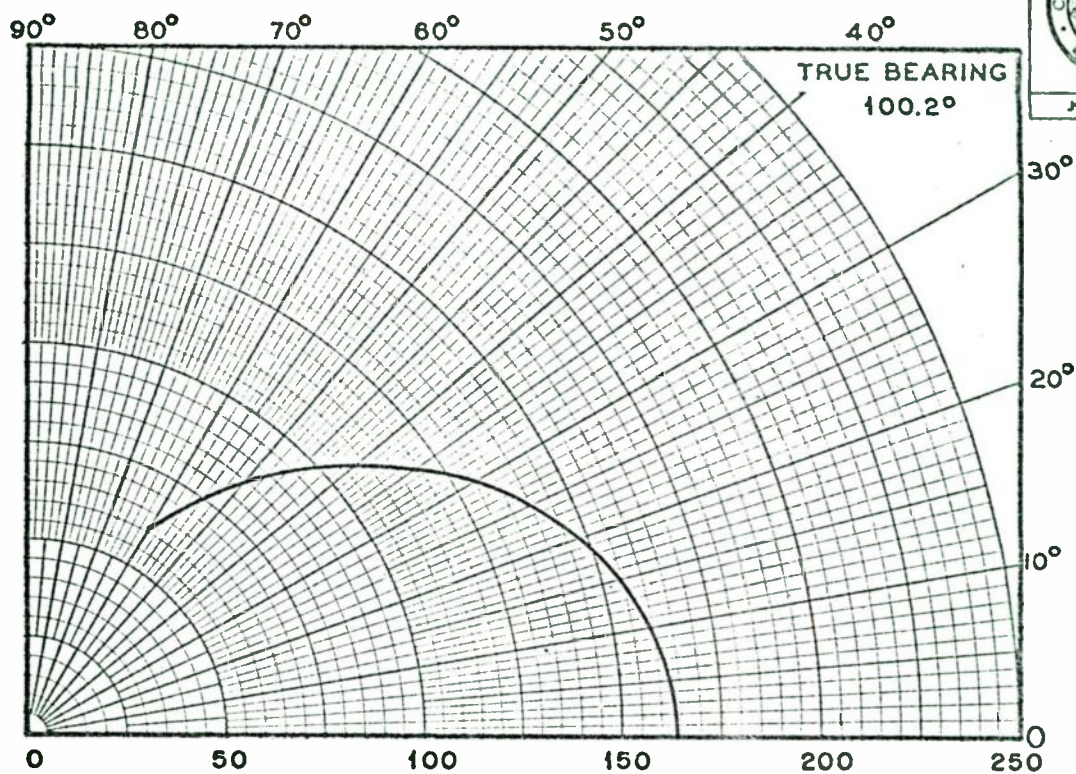


MV/M

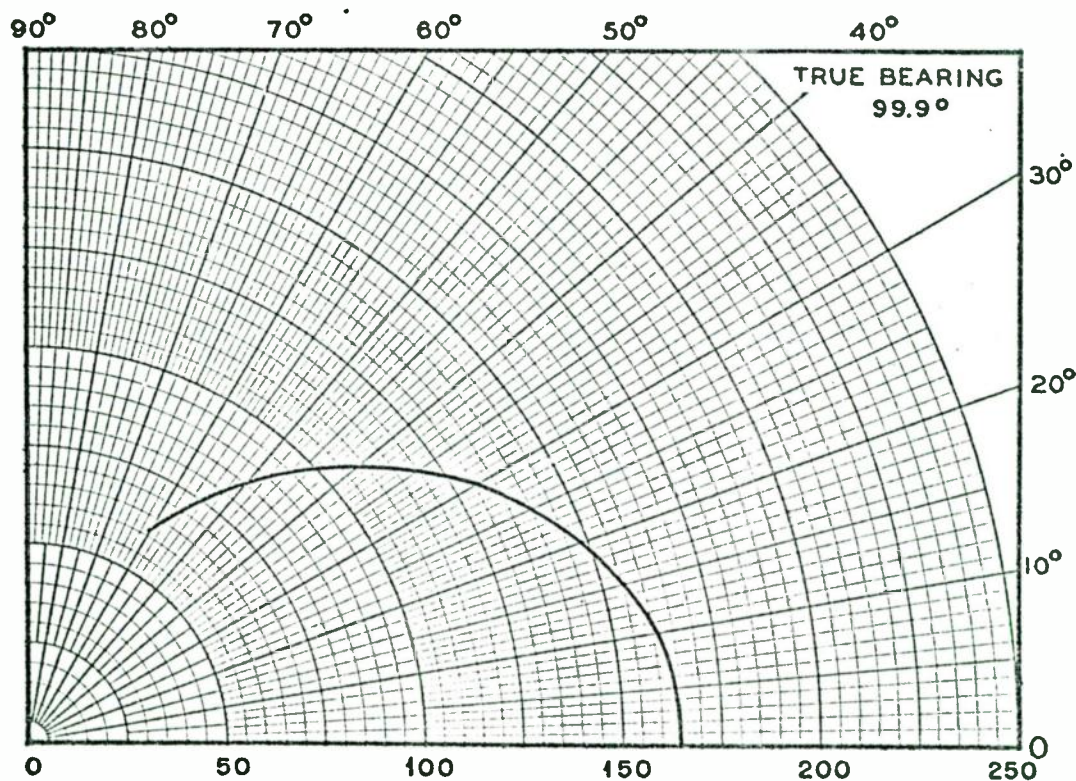
FROM WJPS TOWARD WBTM POINT NO. 4

FIGURE 6-EE

VERTICAL PLANE PATTERNS



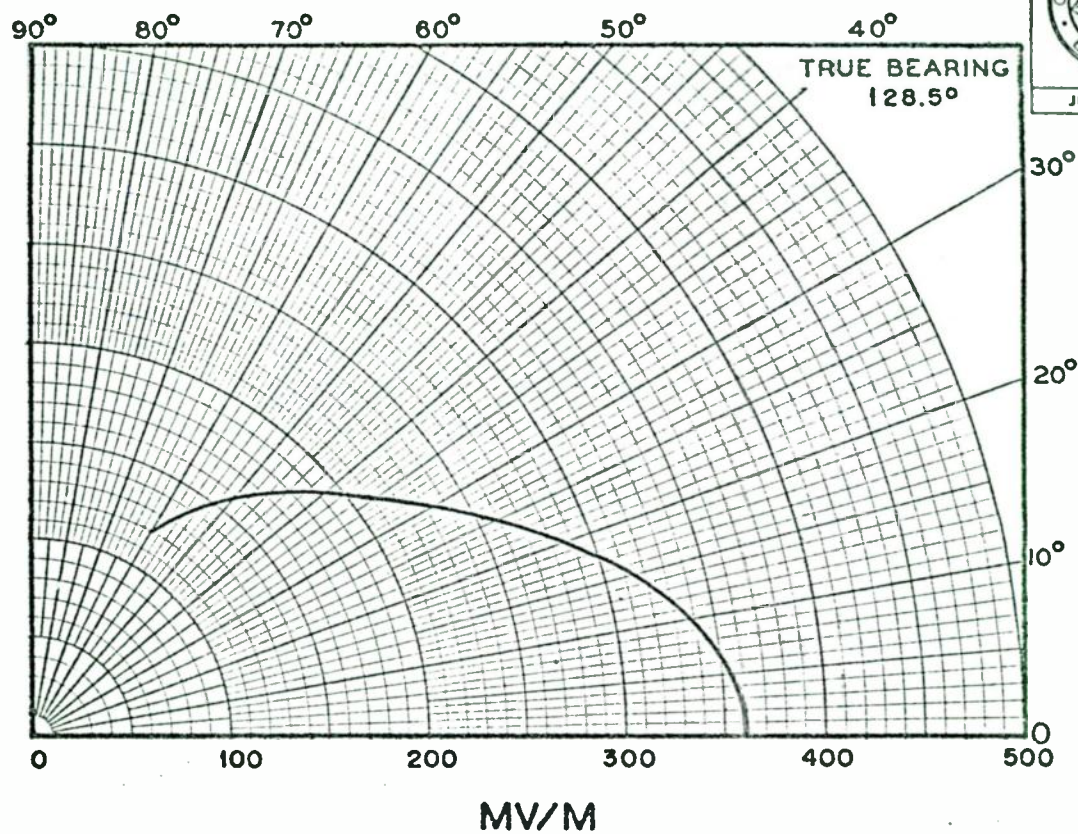
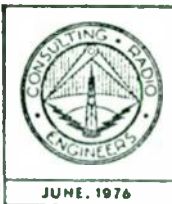
FROM WJPS TOWARD WBTM POINT NO. 5



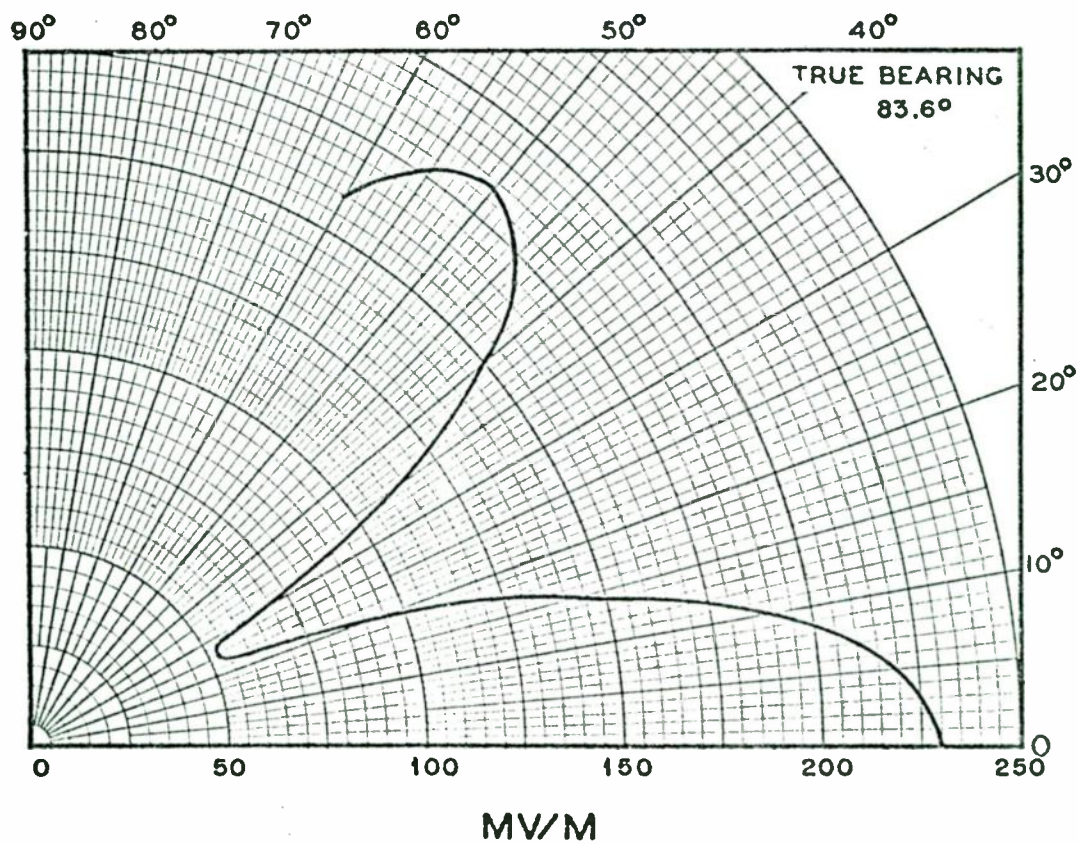
FROM WJPS TOWARD WBTM POINT NO. 6

FIGURE 6-FF

VERTICAL PLANE PATTERNS



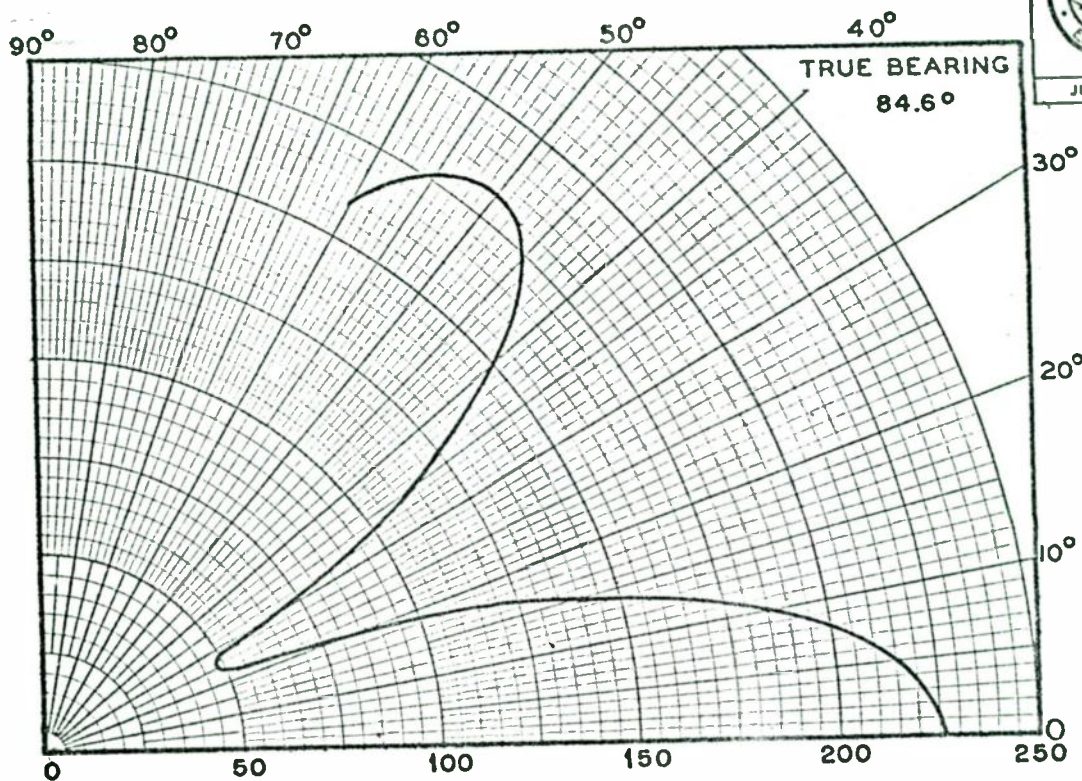
FROM KFJH TOWARD WJPR



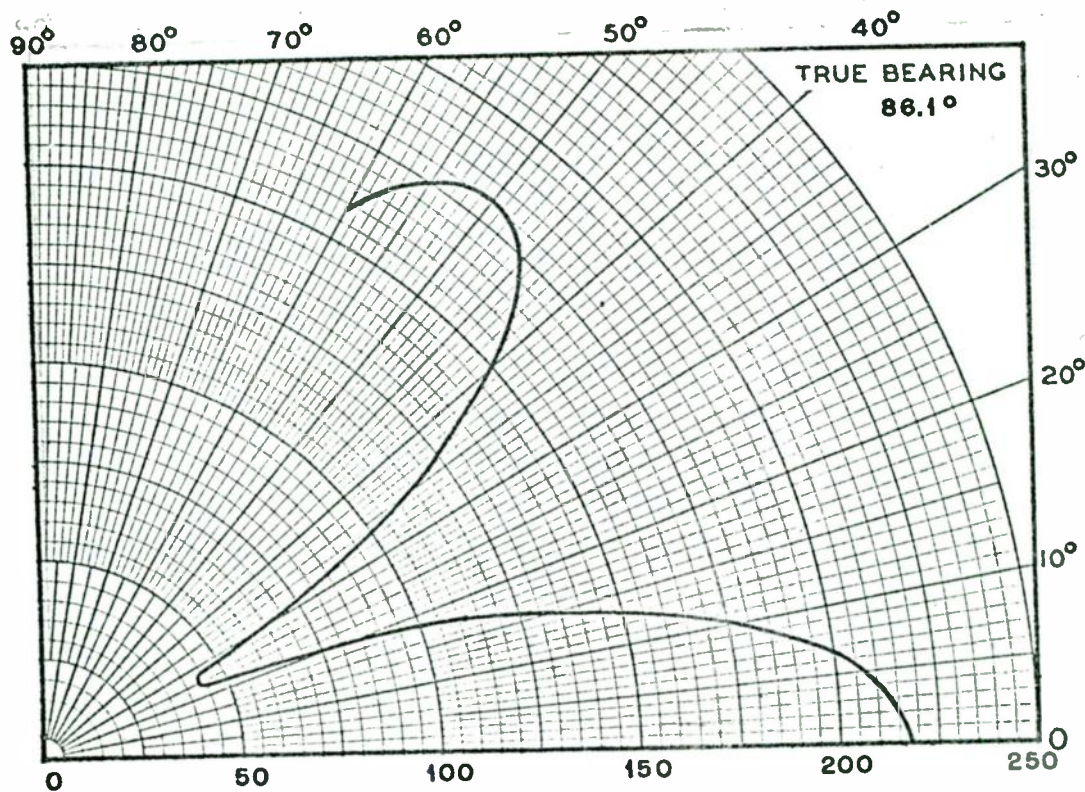
FROM KFJH TOWARD WJPS POINT NO. 1

FIGURE 6-GG

VERTICAL PLANE PATTERNS



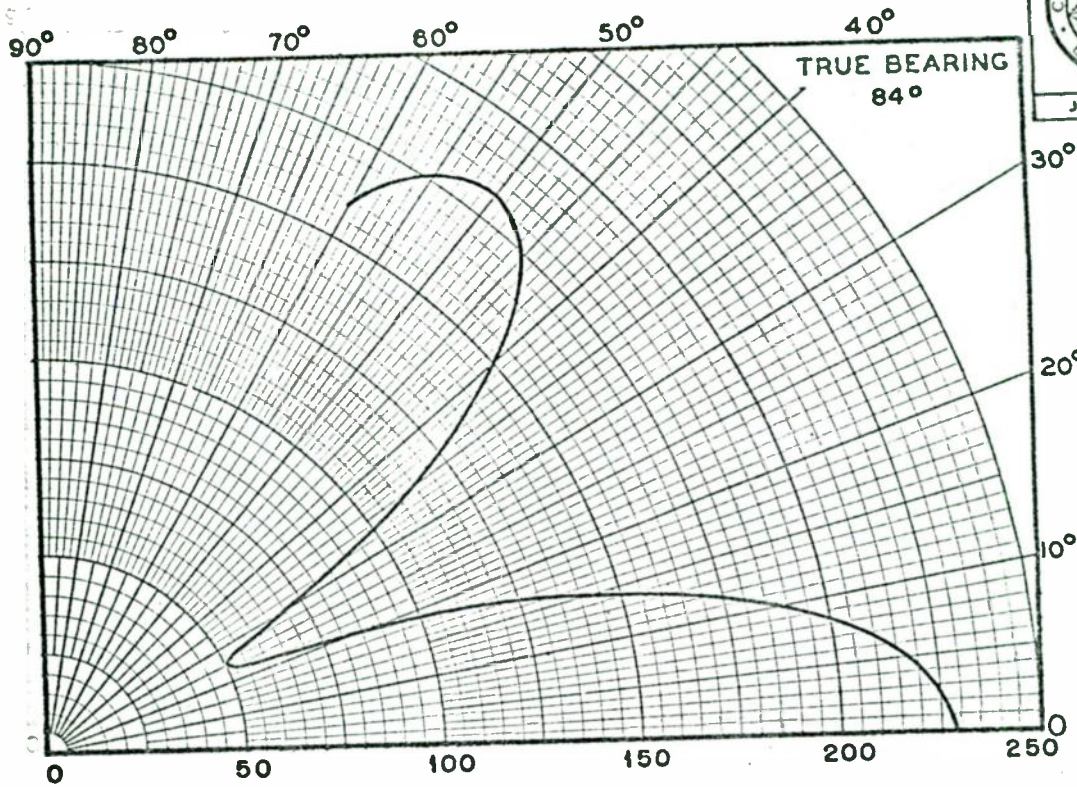
FROM KFH TOWARD WJPS POINT NO. 2



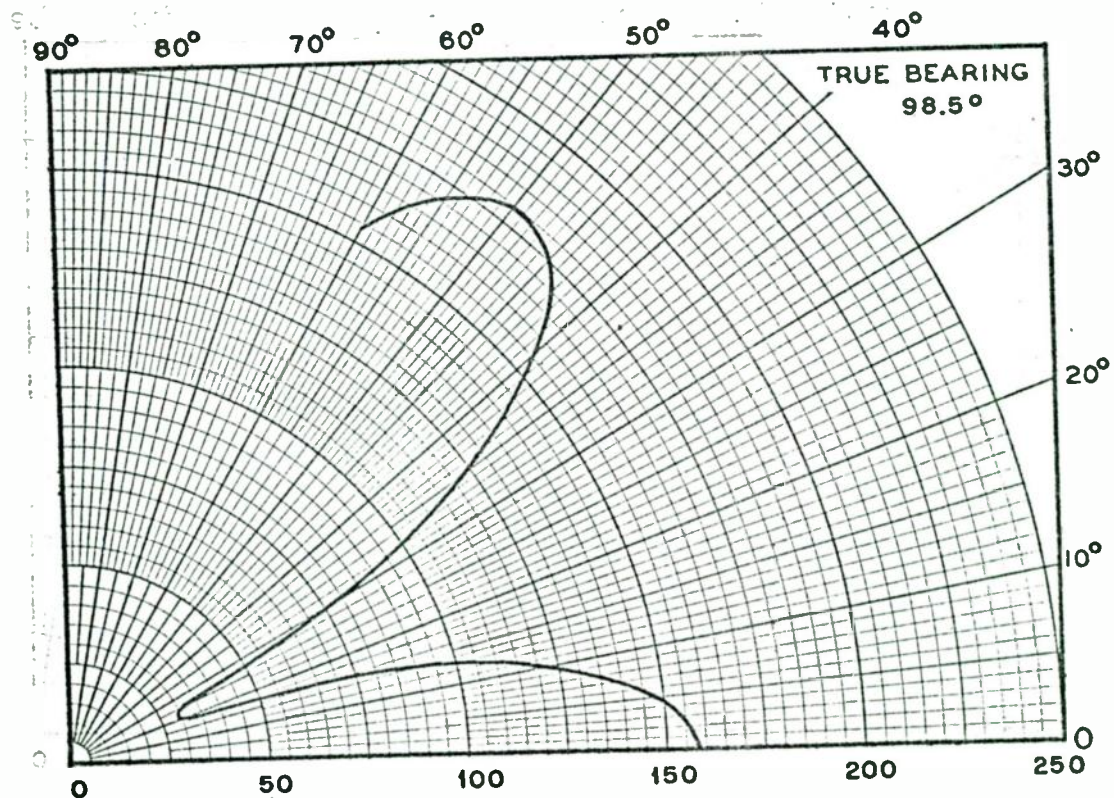
FROM KFH TOWARD WJPS POINT NO. 3

FIGURE 6-HH

VERTICAL PLANE PATTERNS



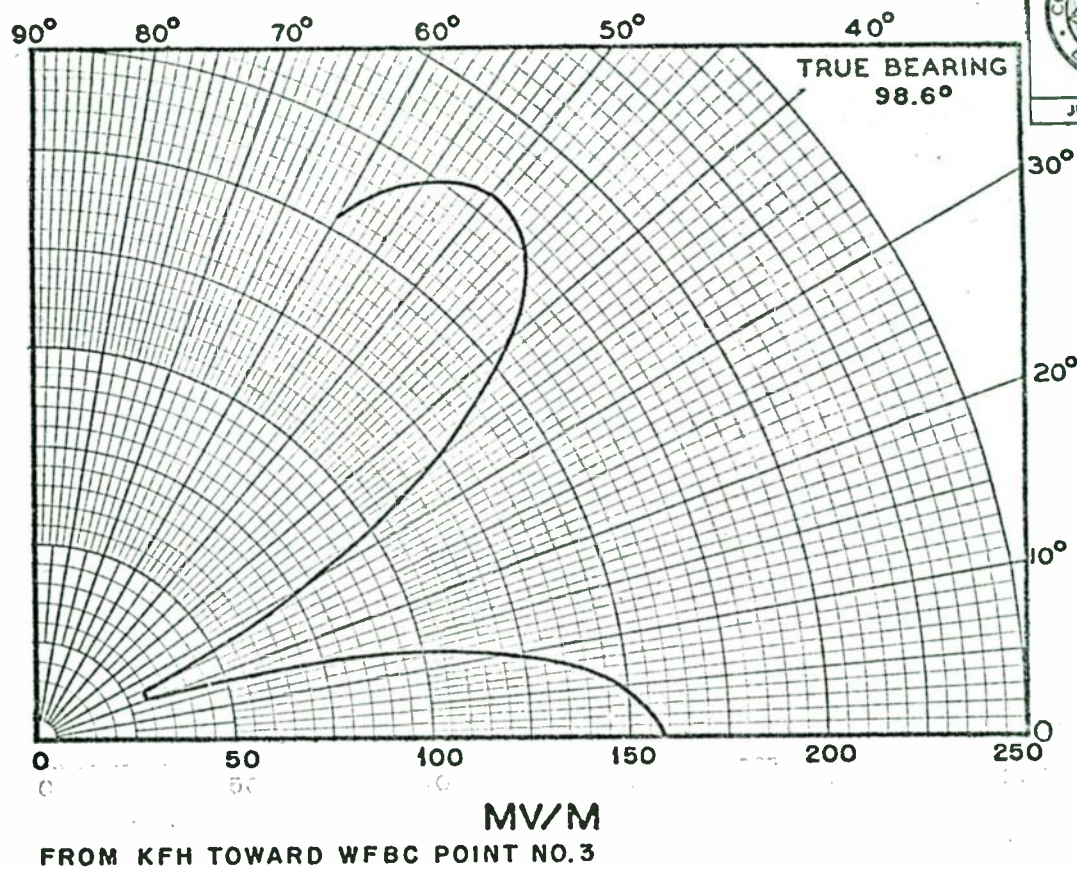
FROM KFJ TOWARD WJPS POINT NO. 4



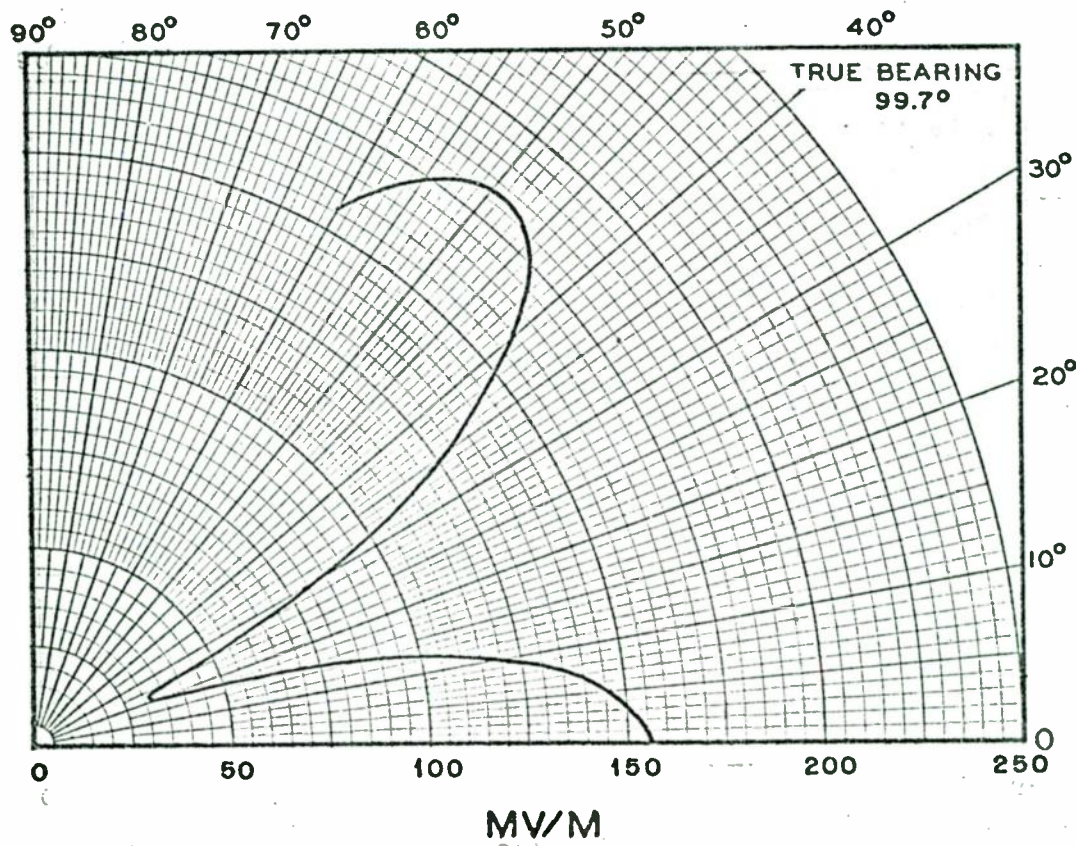
FROM KFJ TOWARD WFBC POINT NO. 1 AND 2

FIGURE 6-11

VERTICAL PLANE PATTERNS



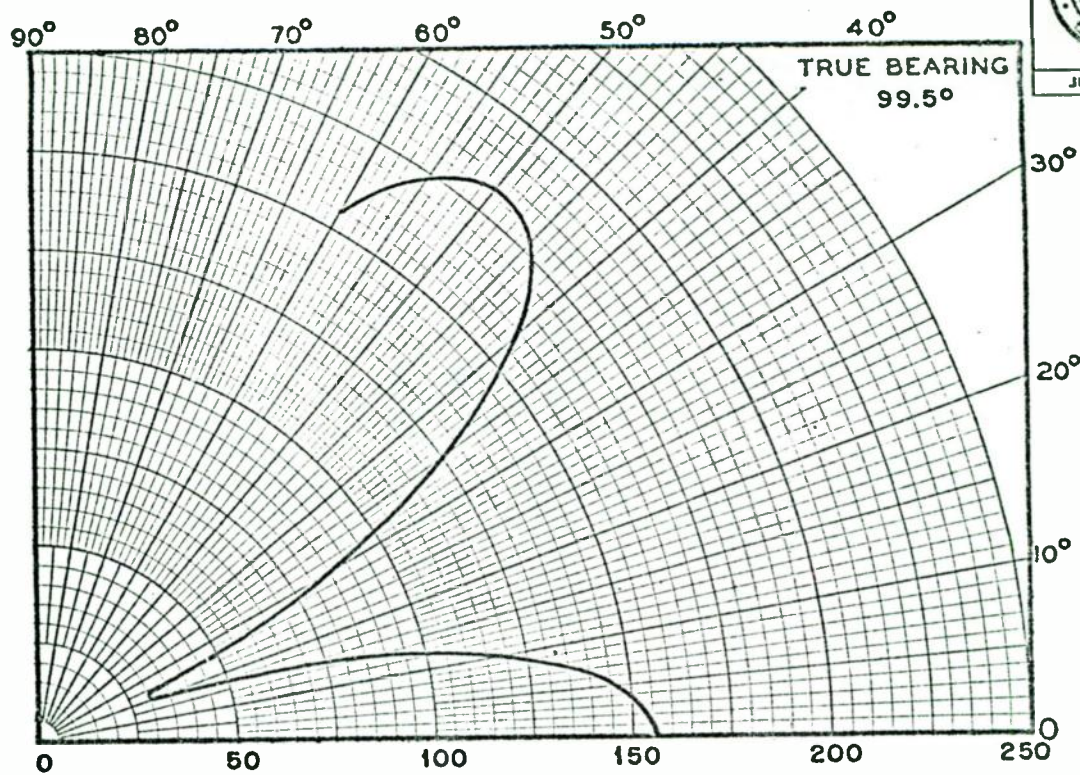
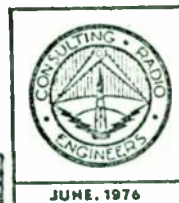
AC



FROM KFJ TOWARD WFBC POINT NO. 5
FROM KFJ TOWARD WFBC POINT NO. 5

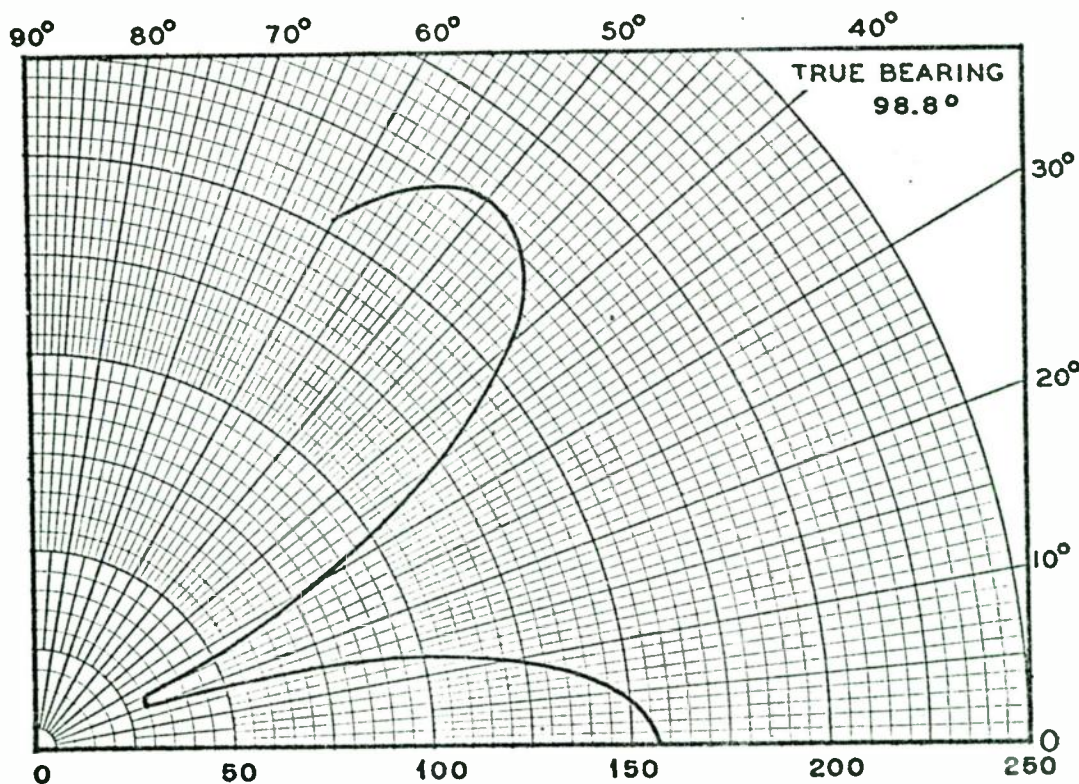
FIGURE 6-JJ
FIGURE 6-KK

VERTICAL PLANE PATTERNS



MV/M

FROM KFHC TOWARD WFBC POINT NO. 6

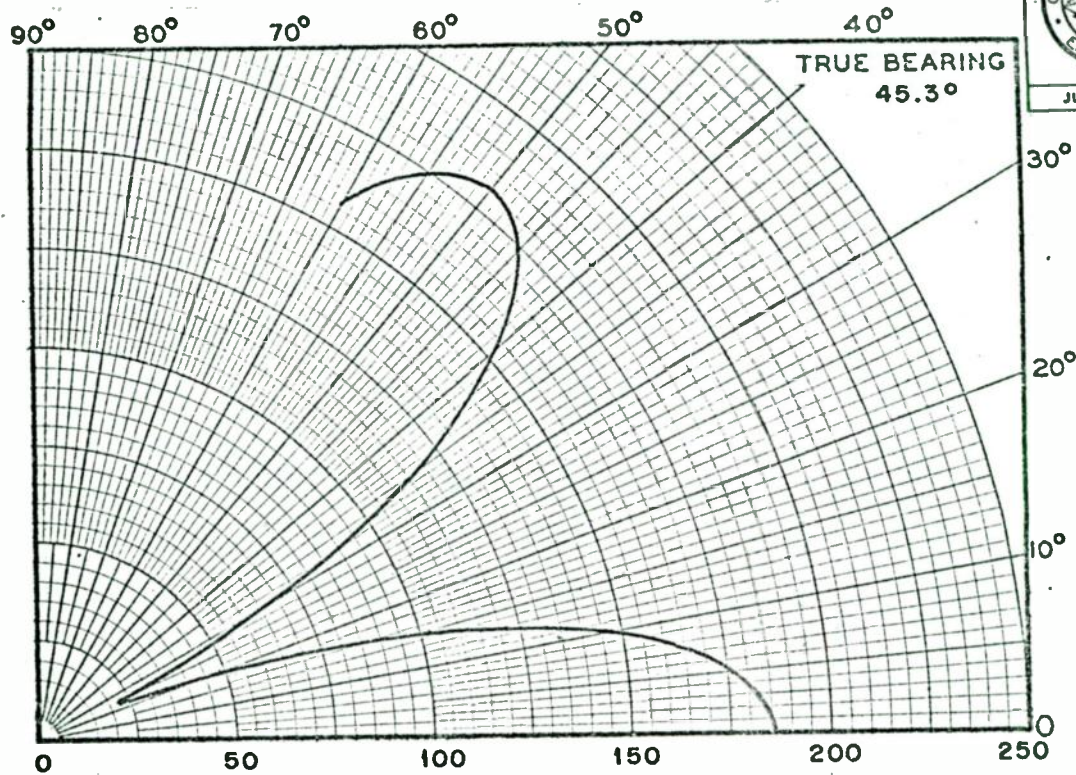


MV/M

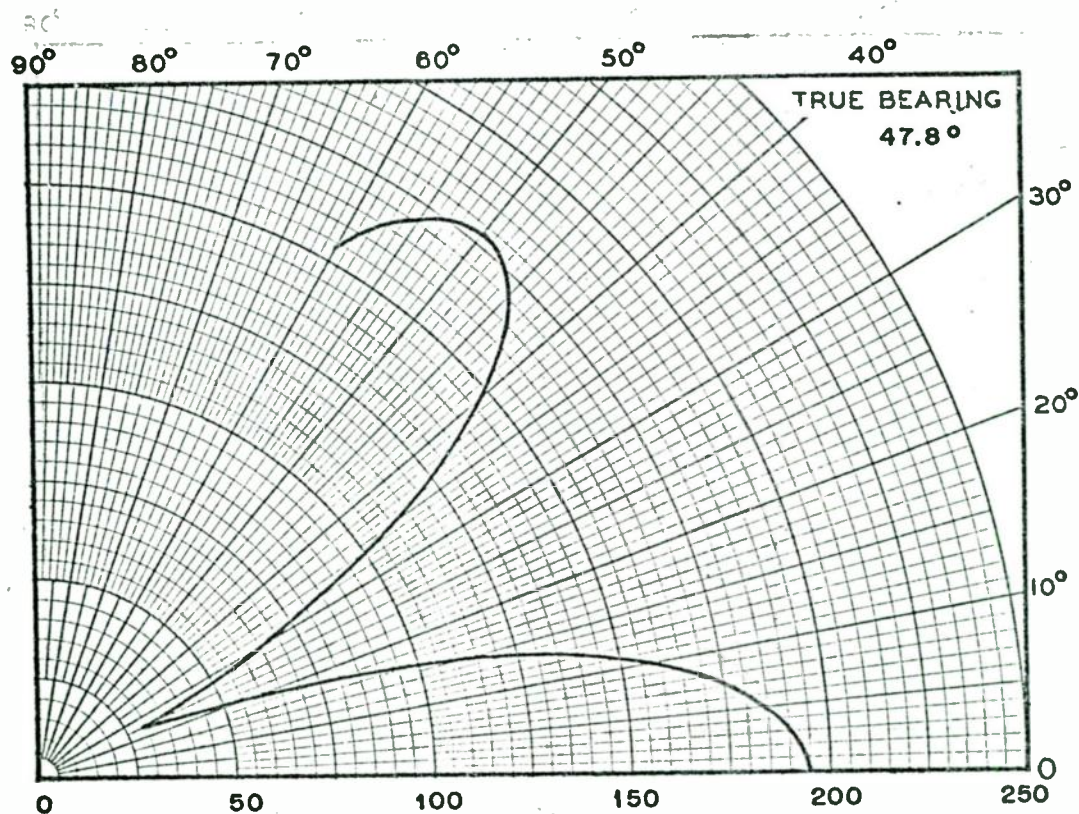
FROM KFHC TOWARD WFBC POINT NO. 7

FIGURE 6-KK

VERTICAL PLANE PATTERNS



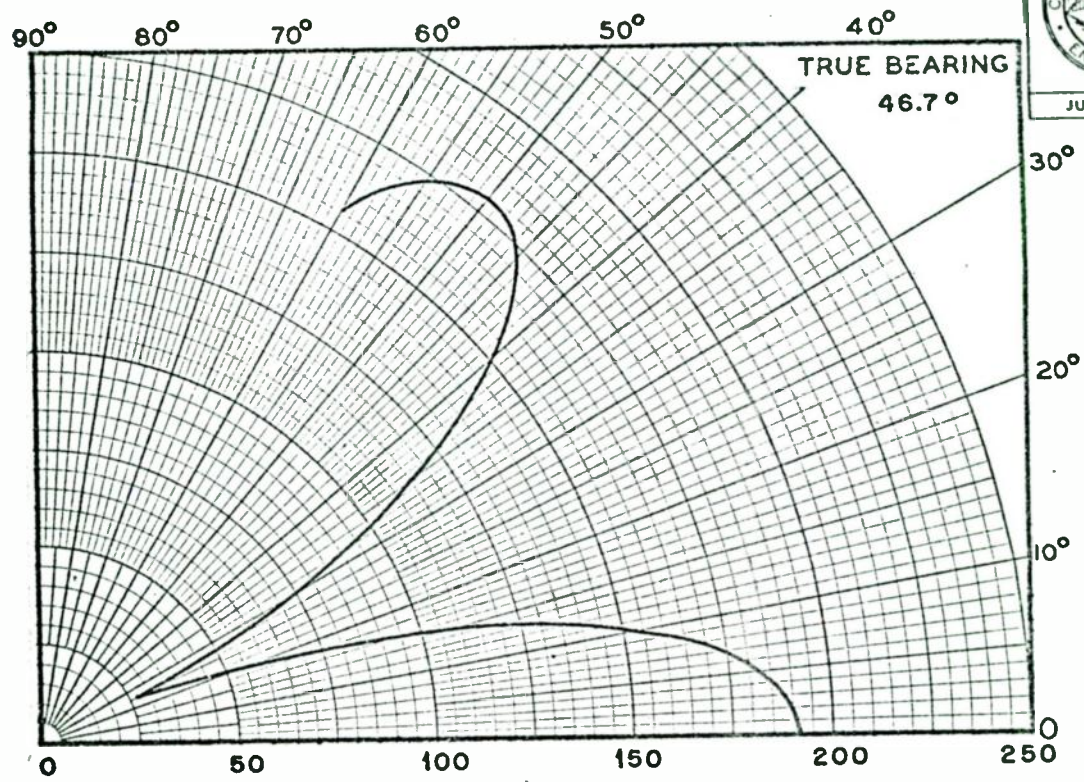
FROM KFH TOWARD WHBL POINT NO. 1



FROM KFH TOWARD WHBL POINT NO. 2

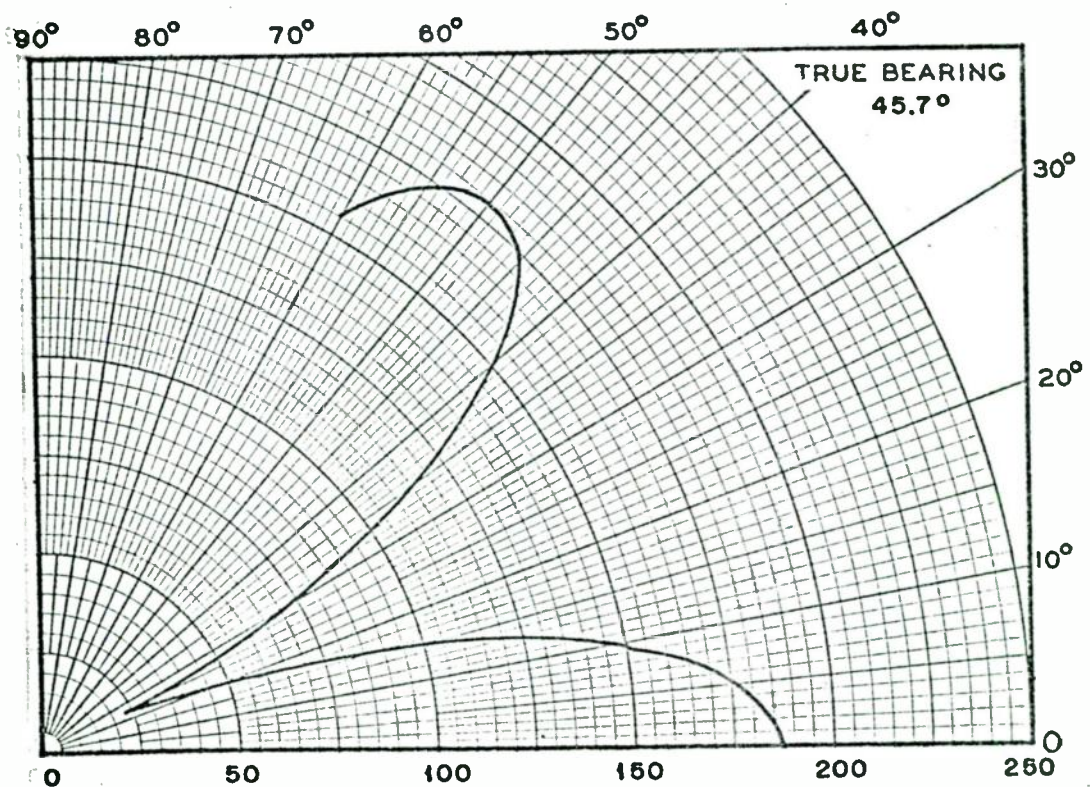
FIGURE 6-MV
FIGURE 6-LL

VERTICAL PLANE PATTERNS



MV/M

FROM KFH TOWARD WHBL POINT NO. 3



MV/M

FROM KFH TOWARD WHBL POINT NO. 4

FIGURE 6-MM

VERTICAL PLANE PATTERNS

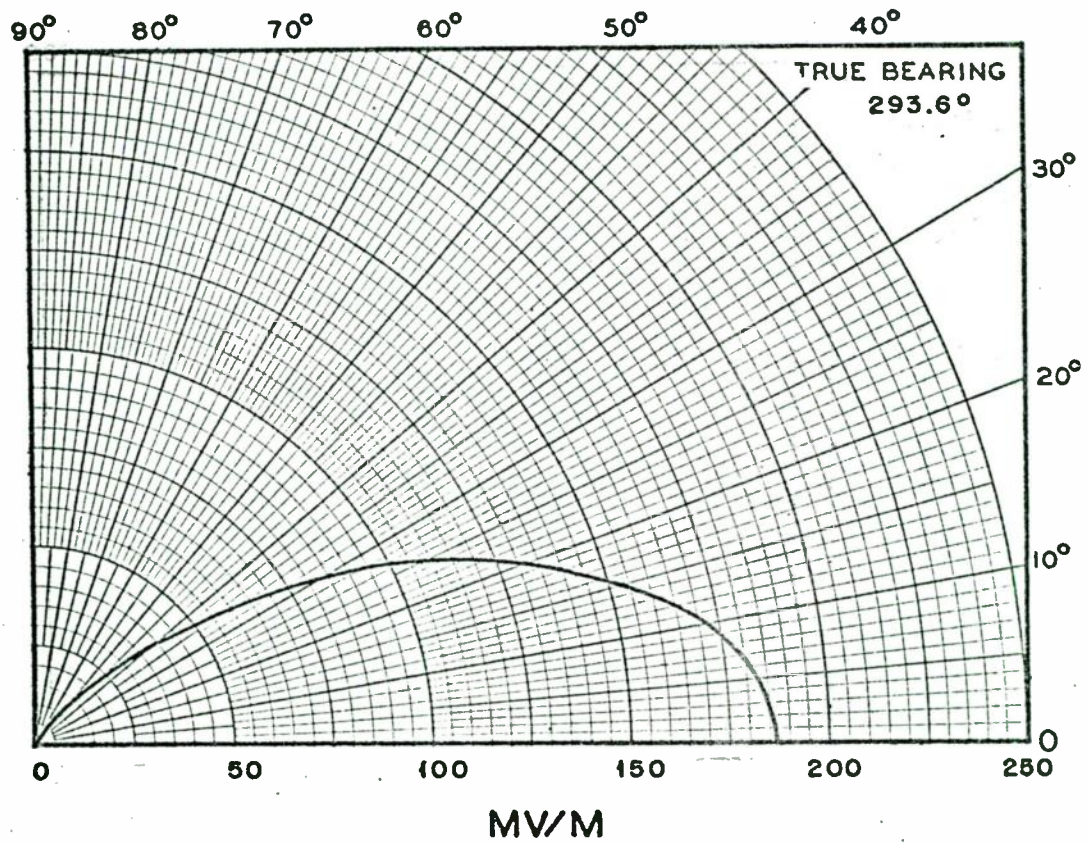
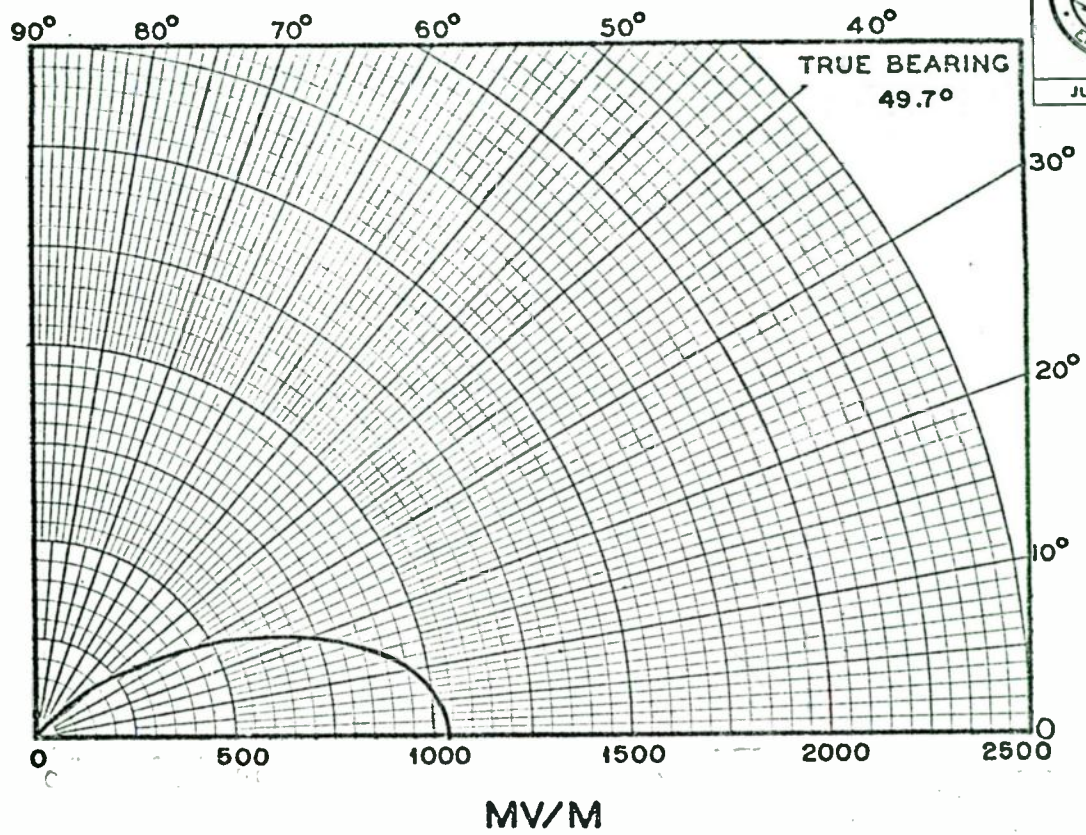
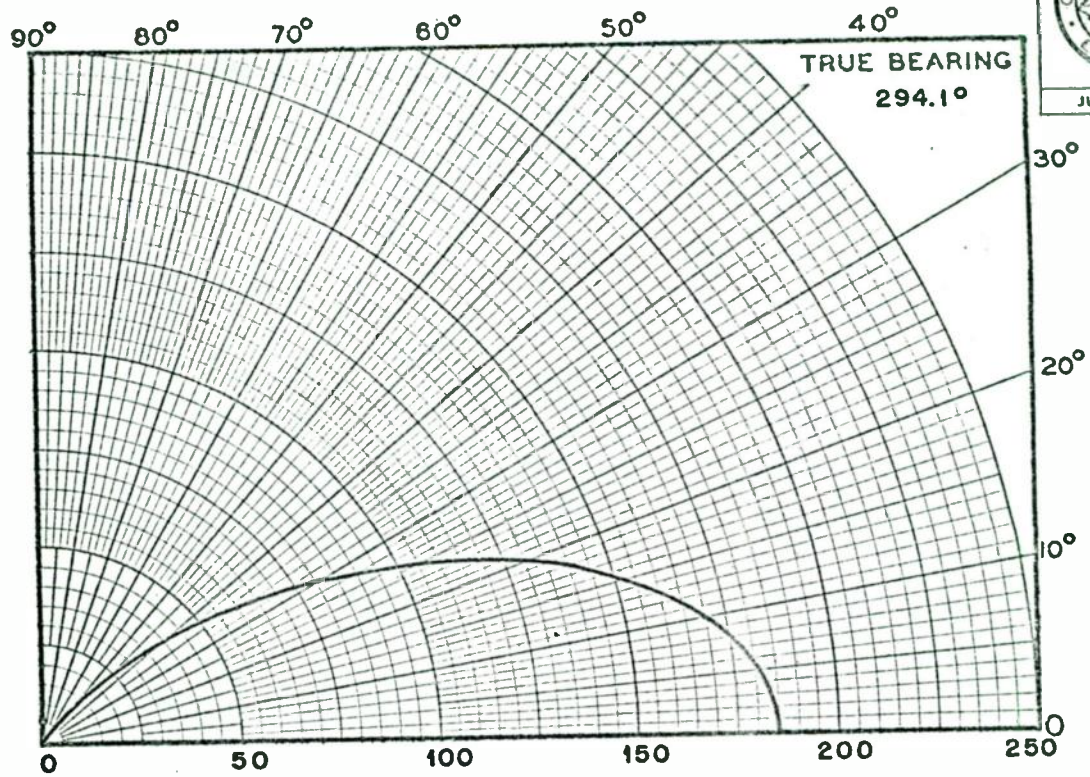


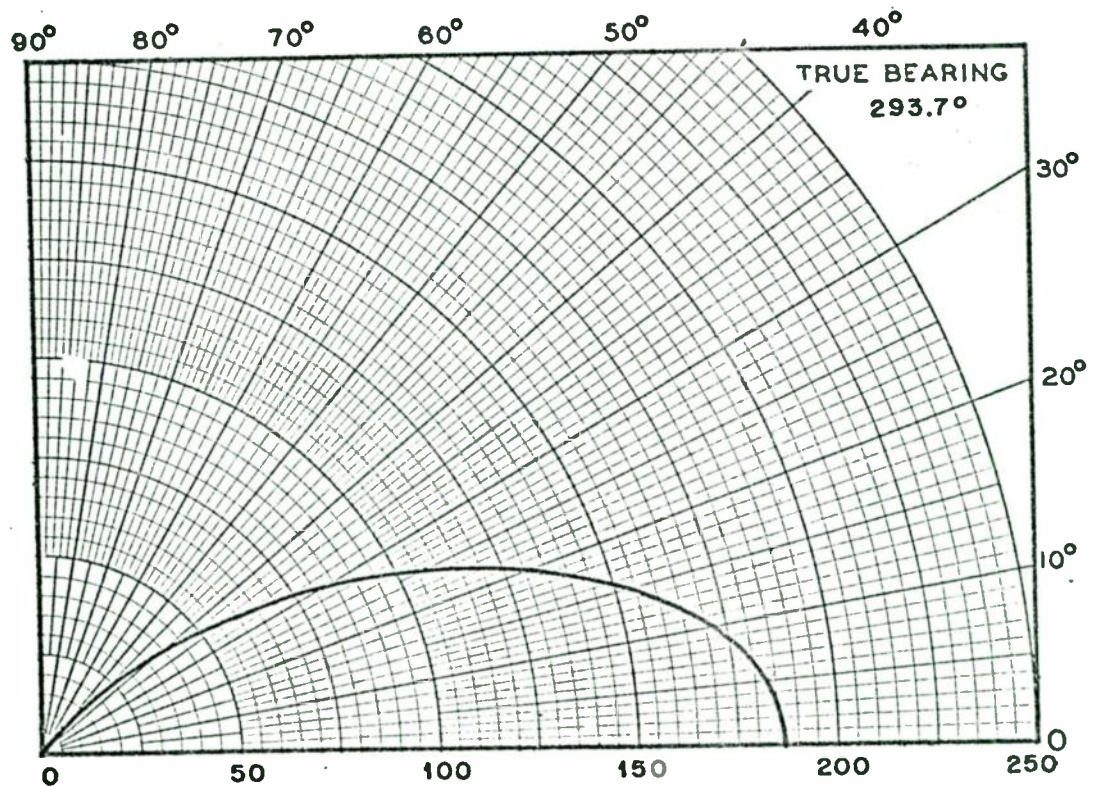
FIGURE 6-00
FIGURE 6-NN

VERTICAL PLANE PATTERNS



MV/M

FROM WPOW / WEVD TOWARD WTRX POINT NO.2 AND WHBL POINT NO.1

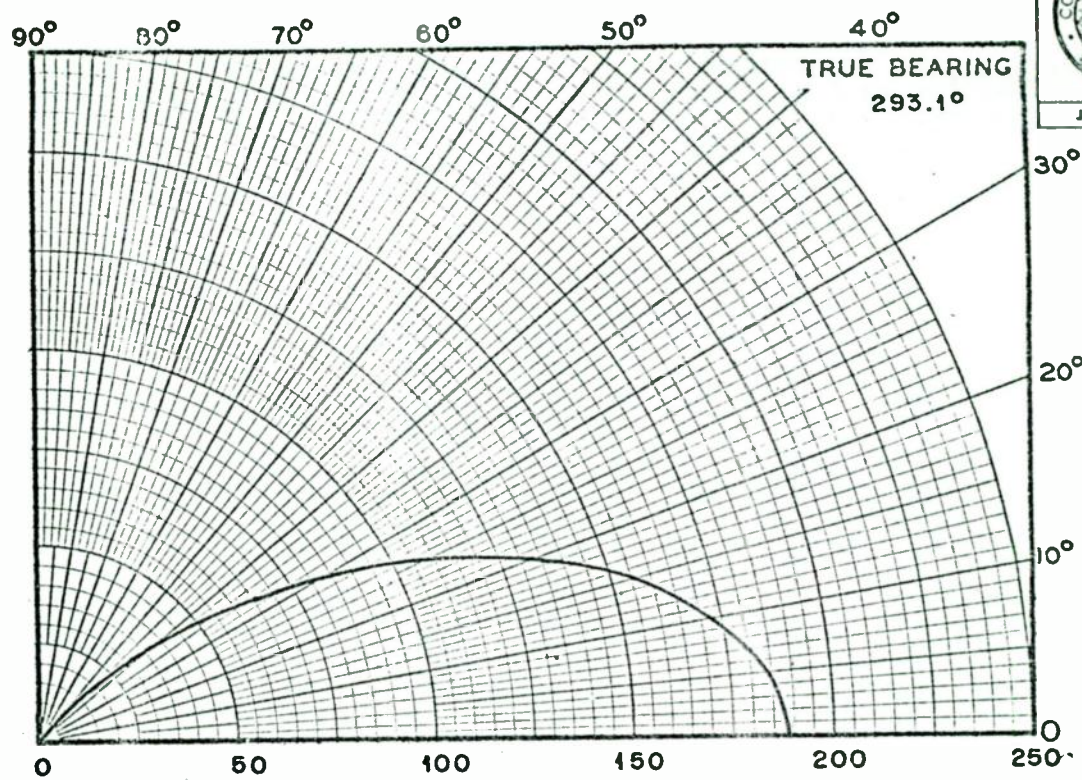


MV/M

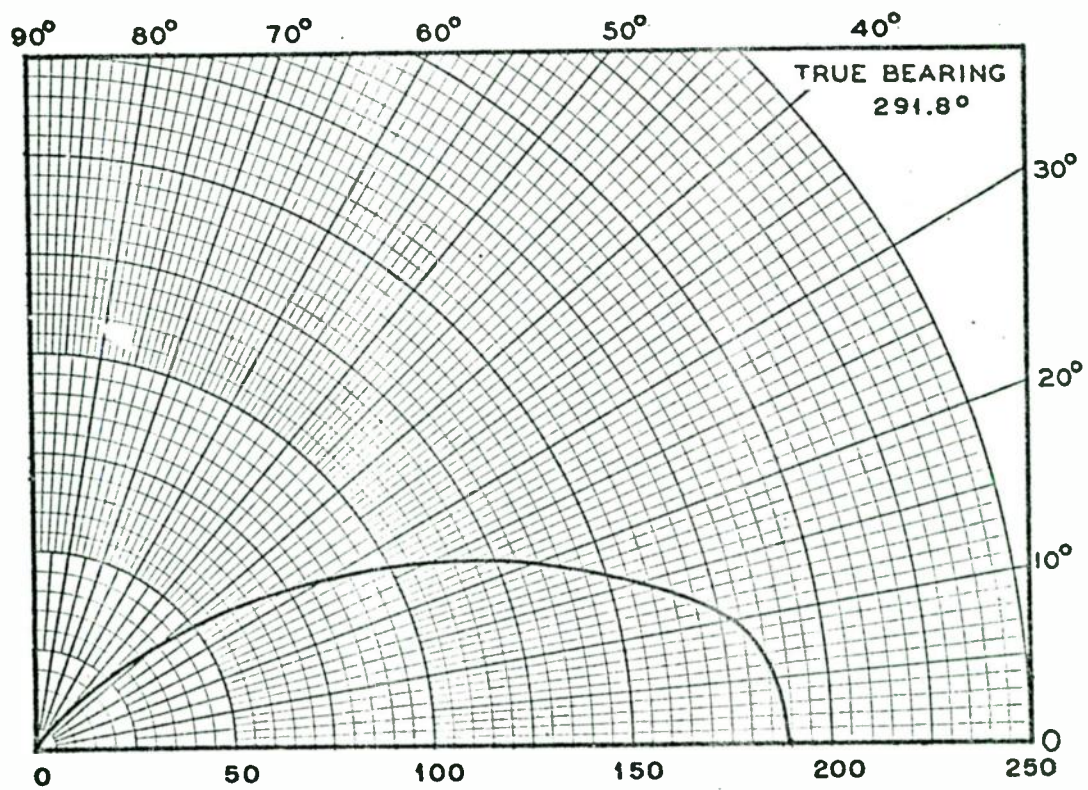
FROM WPOW / WEVD TOWARD WTRX POINT NO.3

FIGURE 6-00

VERTICAL PLANE PATTERNS



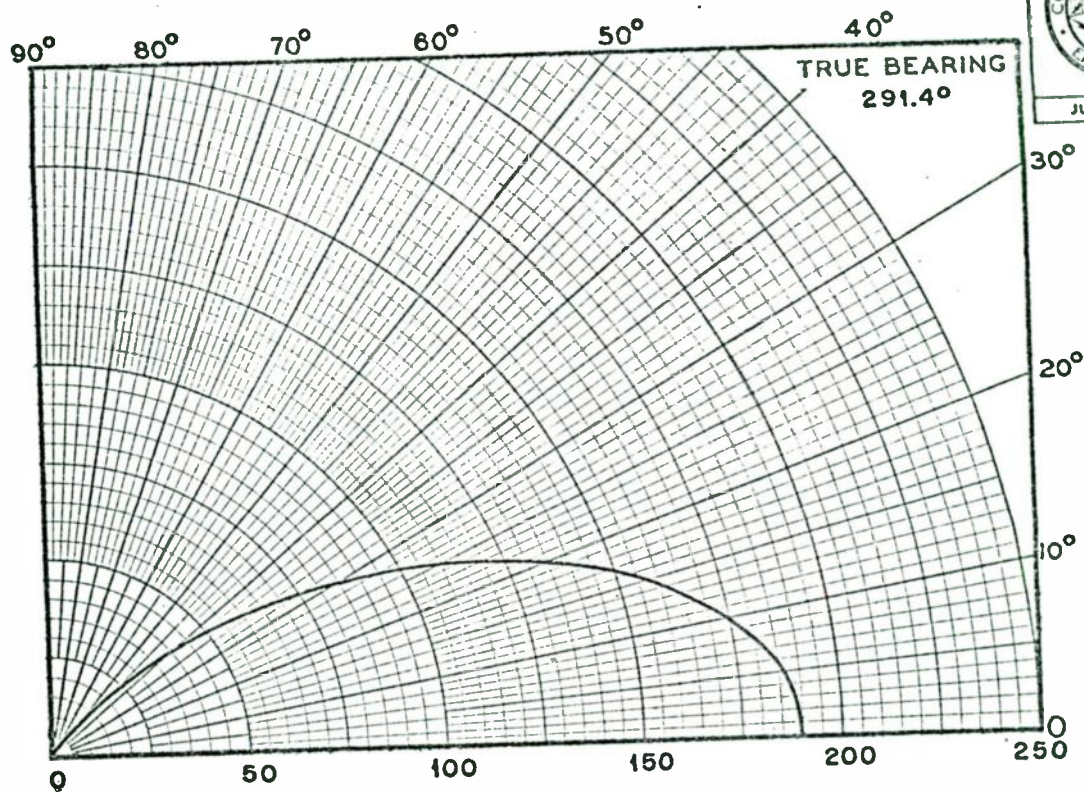
FROM WPOW / WEVD TOWARD WTRX POINT NO. 4



FROM WPOW / WEVD TOWARD WTRX POINT NO. 5

FIGURE 6-PP

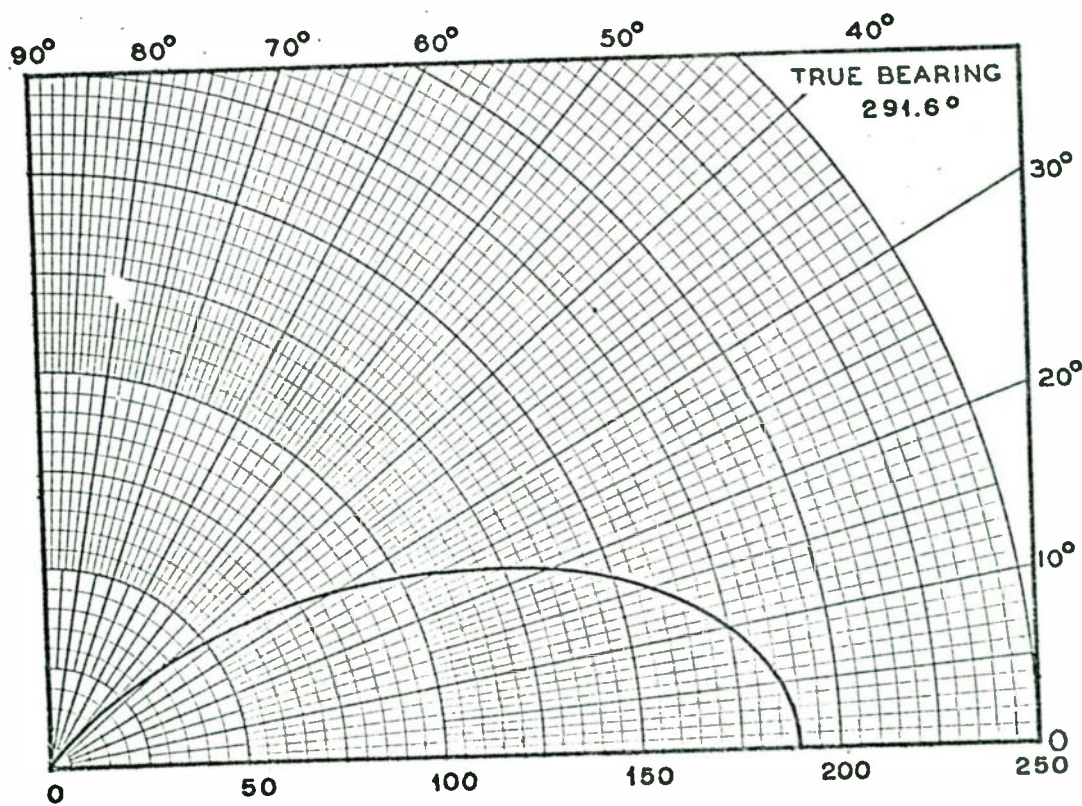
.. VERTICAL PLANE PATTERNS



MV/M

FROM WPOW / WEVD TOWARD WTRX POINT NO. 6

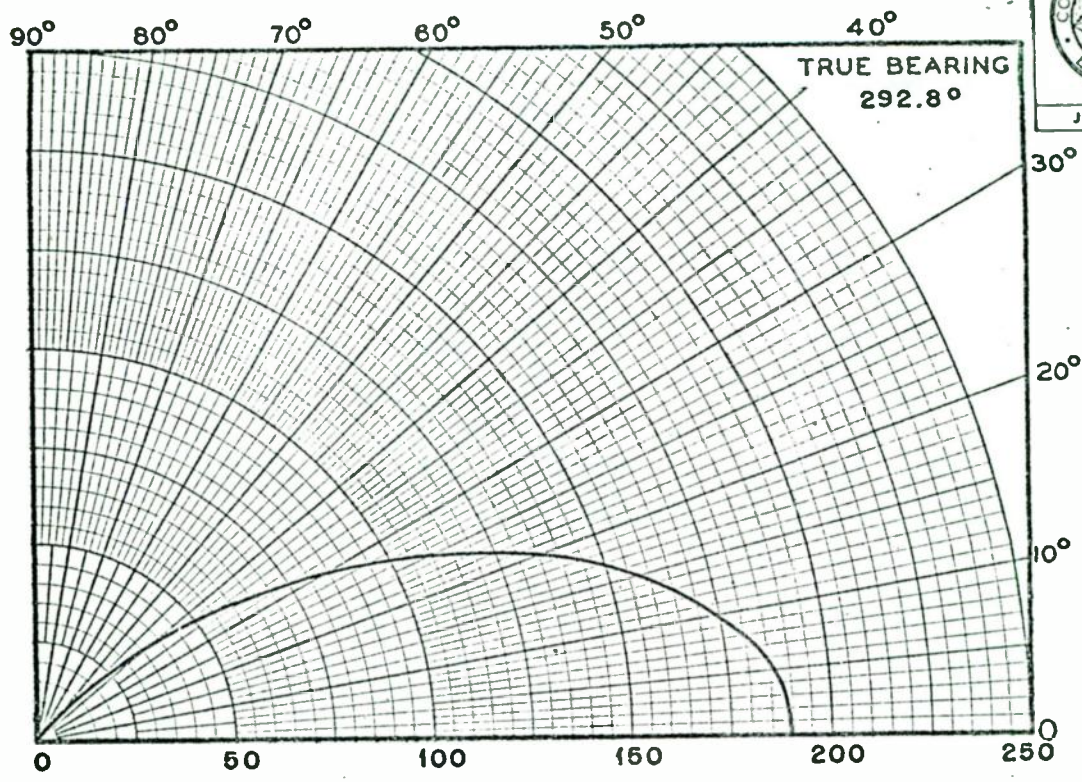
AC



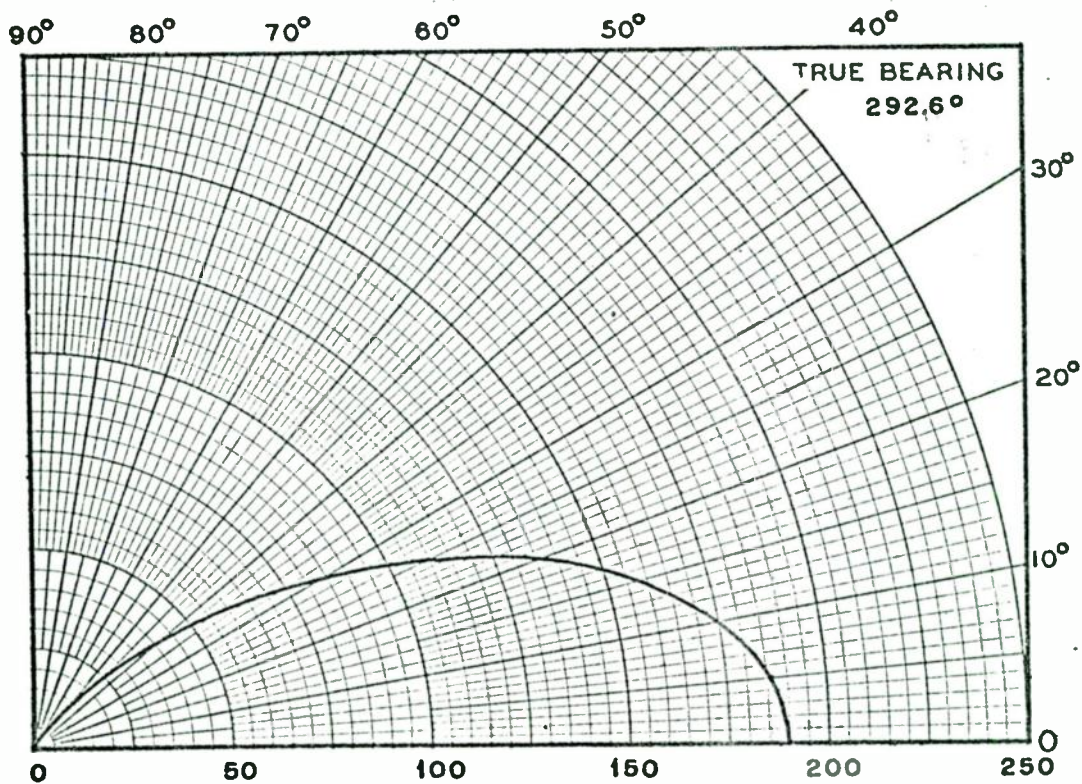
MV/M

FROM WPOW / WEVD TOWARD WTRX POINT NO. 7 AND WHBL POINT NO. 3

VERTICAL PLANE PATTERNS



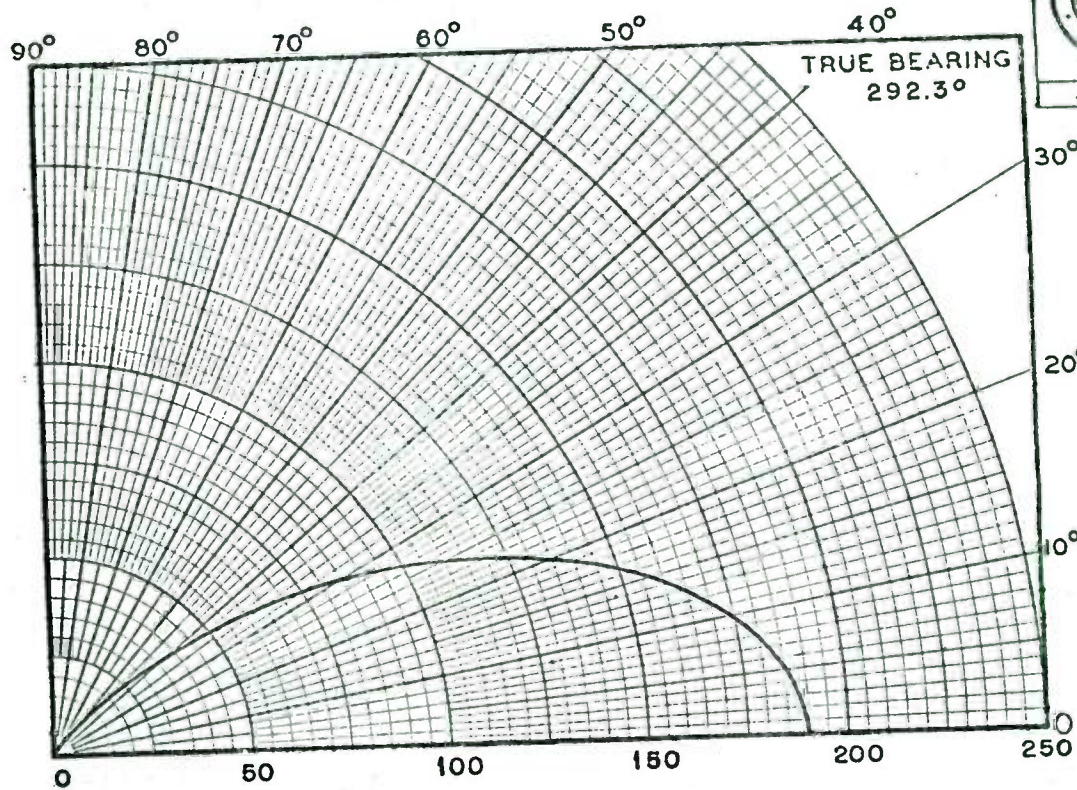
FROM WPOW / WEVD TOWARD WTRX POINT NO. 8



FROM WPOW / WEVD TOWARD WRIE POINT NO. 1

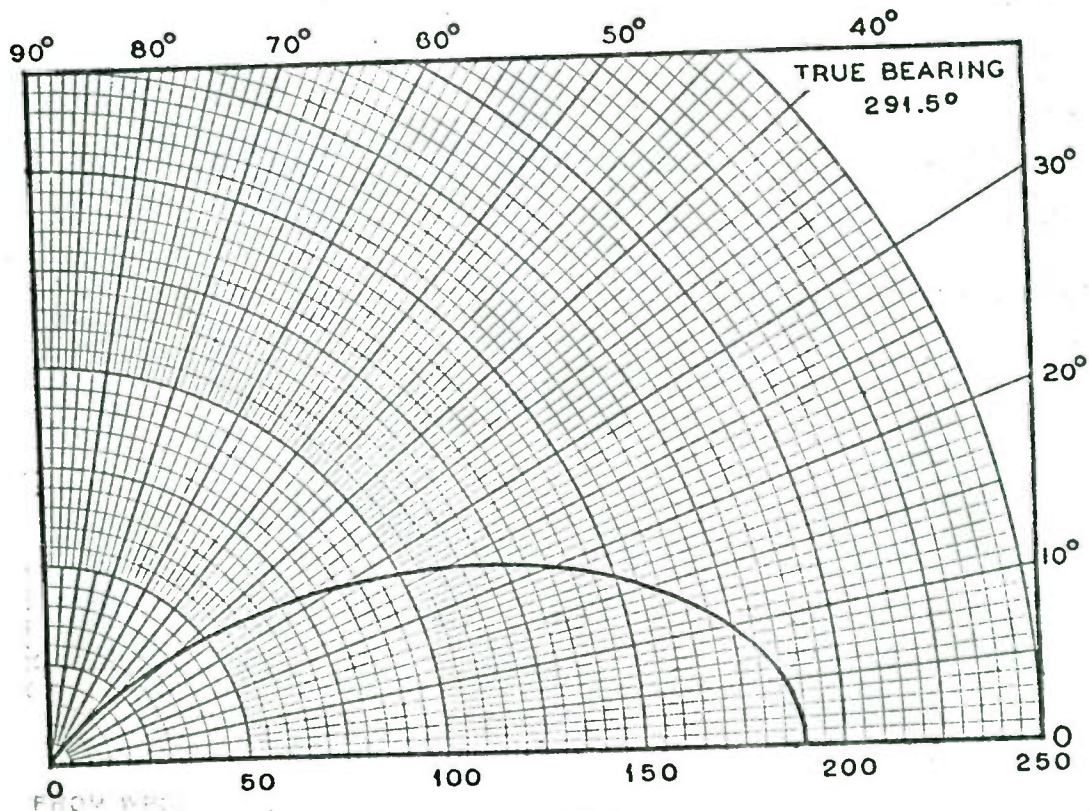
FIGURE 6-RR

VERTICAL PLANE PATTERNS



FROM WPOW / WEVD TOWARD WRIE POINT NO. 2

AC

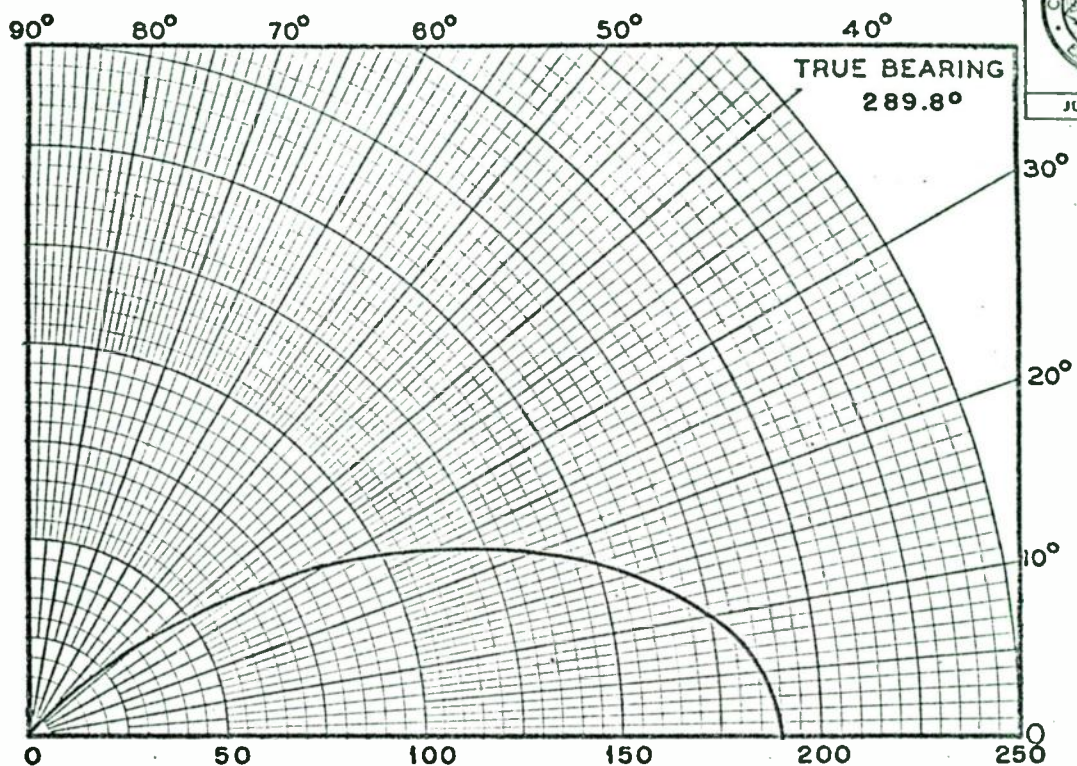


FROM WPOW / WEVD TOWARD WRIE POINT NO. 3

World Radio History

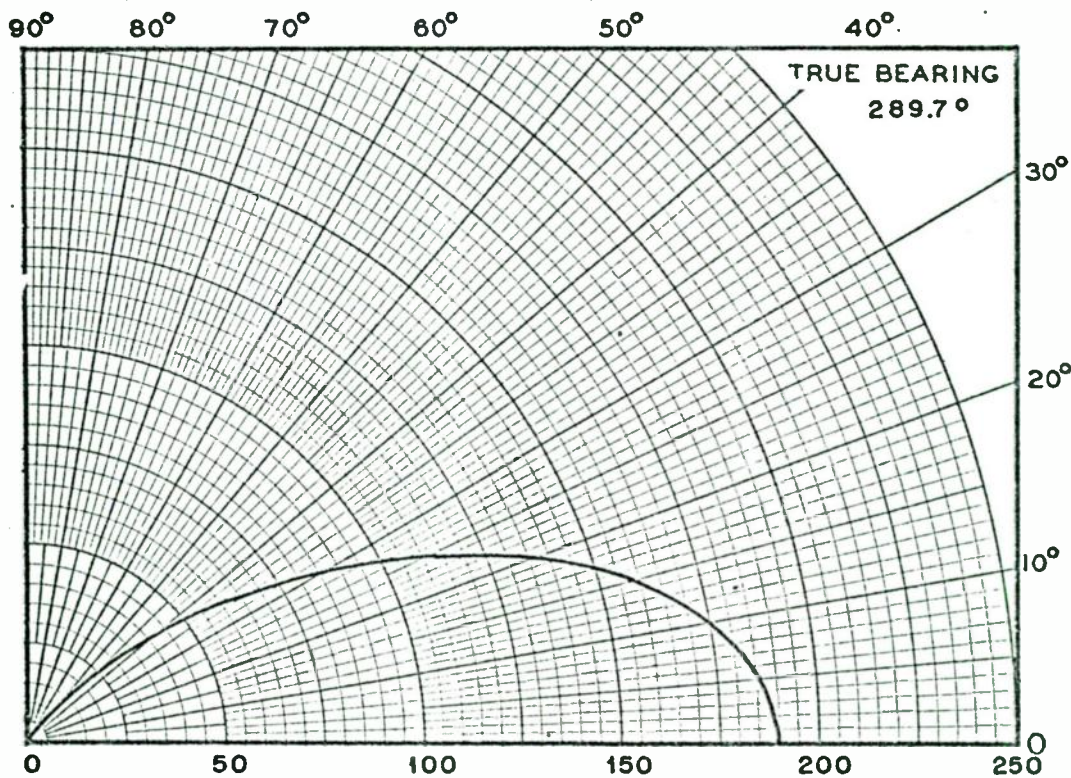
FIGURE 6-SS

VERTICAL PLANE PATTERNS



MV/M

FROM WPOW/WEVD TOWARD WRIE POINT NO. 4

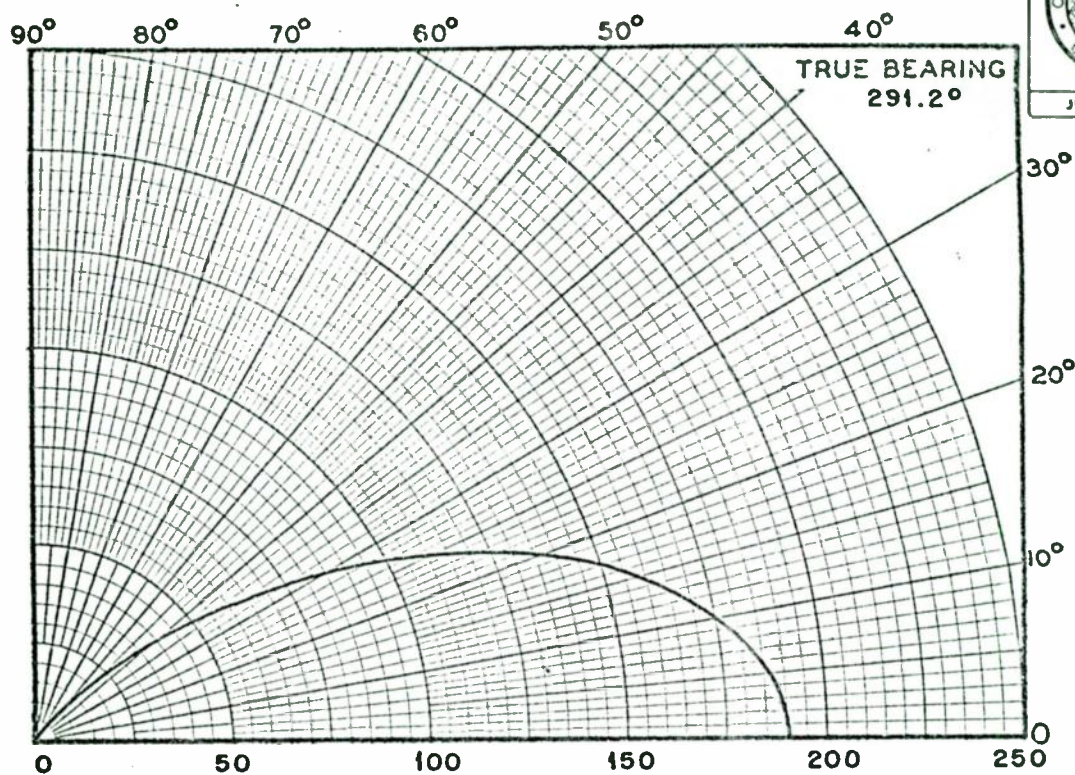


MV/M

FROM WPOW/WEVD TOWARD WRIE POINT NO. 5

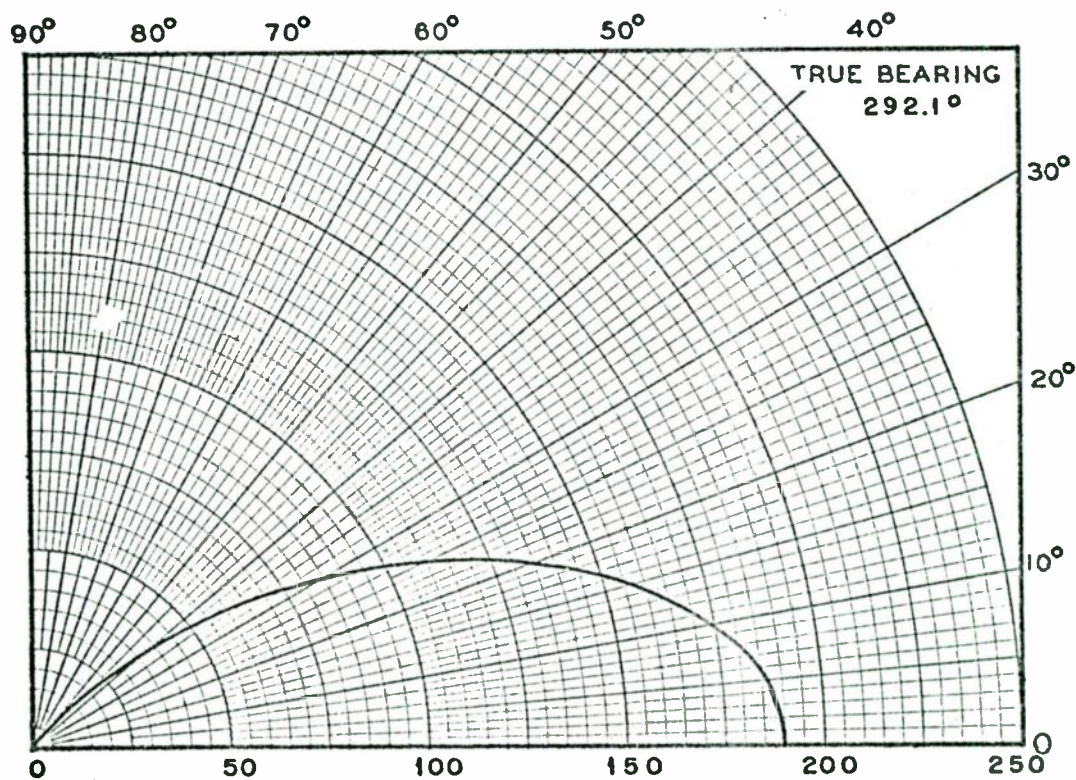
FIGURE 6-TT

VERTICAL PLANE PATTERNS



MV/M

FROM WPOW/WEVD TOWARD WRIE POINT NO. 6 AND WHBL POINT NO. 2

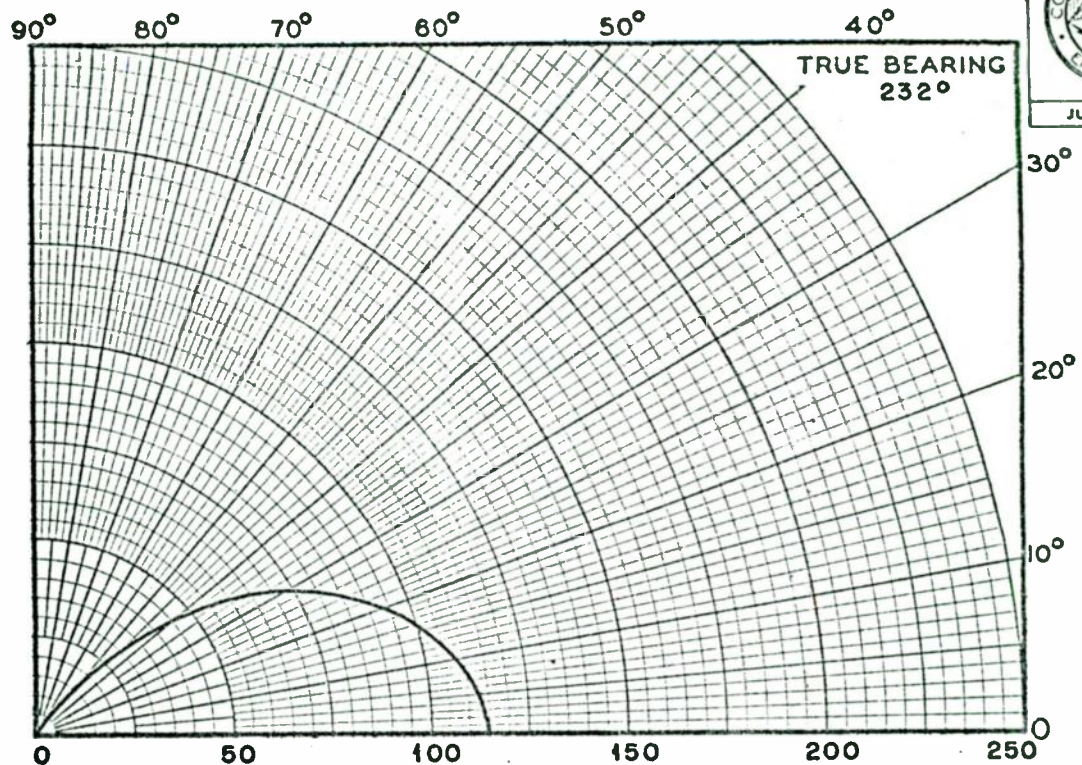
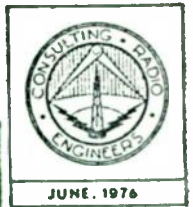


MV/M

FROM WPOW/WEVD TOWARD WRIE POINT NO. 7

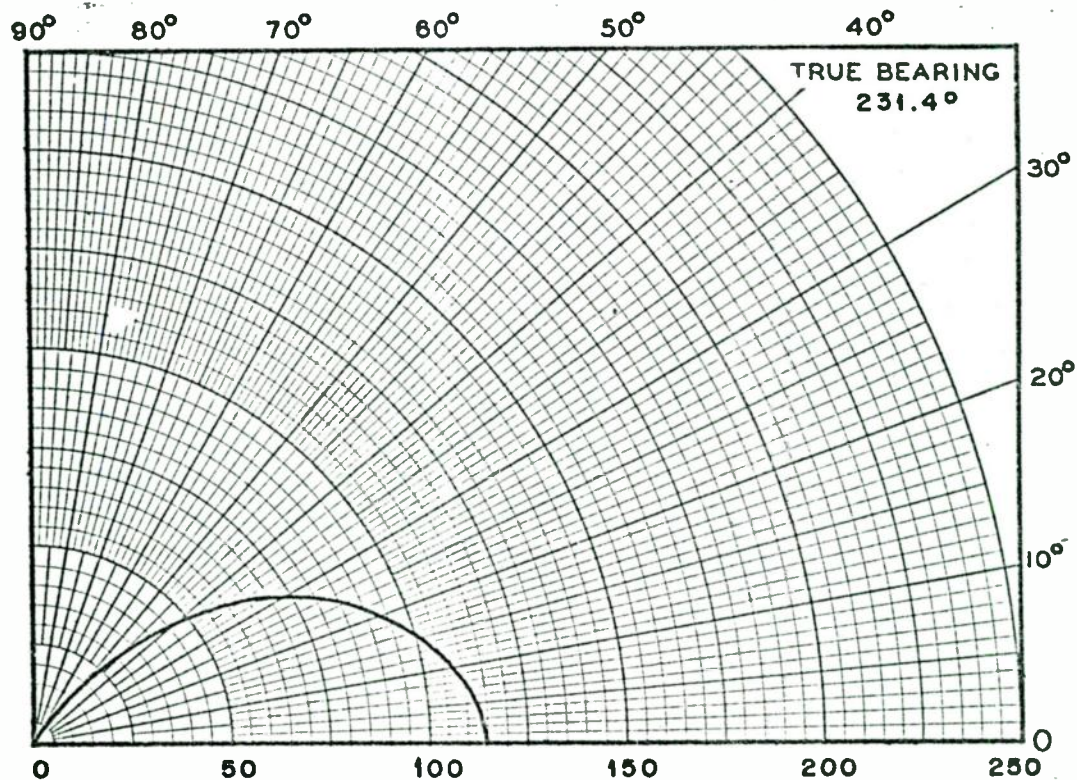
FIGURE 6-UU

VERTICAL PLANE PATTERNS



MV/M

FROM WPOW / WEVD TOWARD WFBC POINTS NO. 1 AND 7

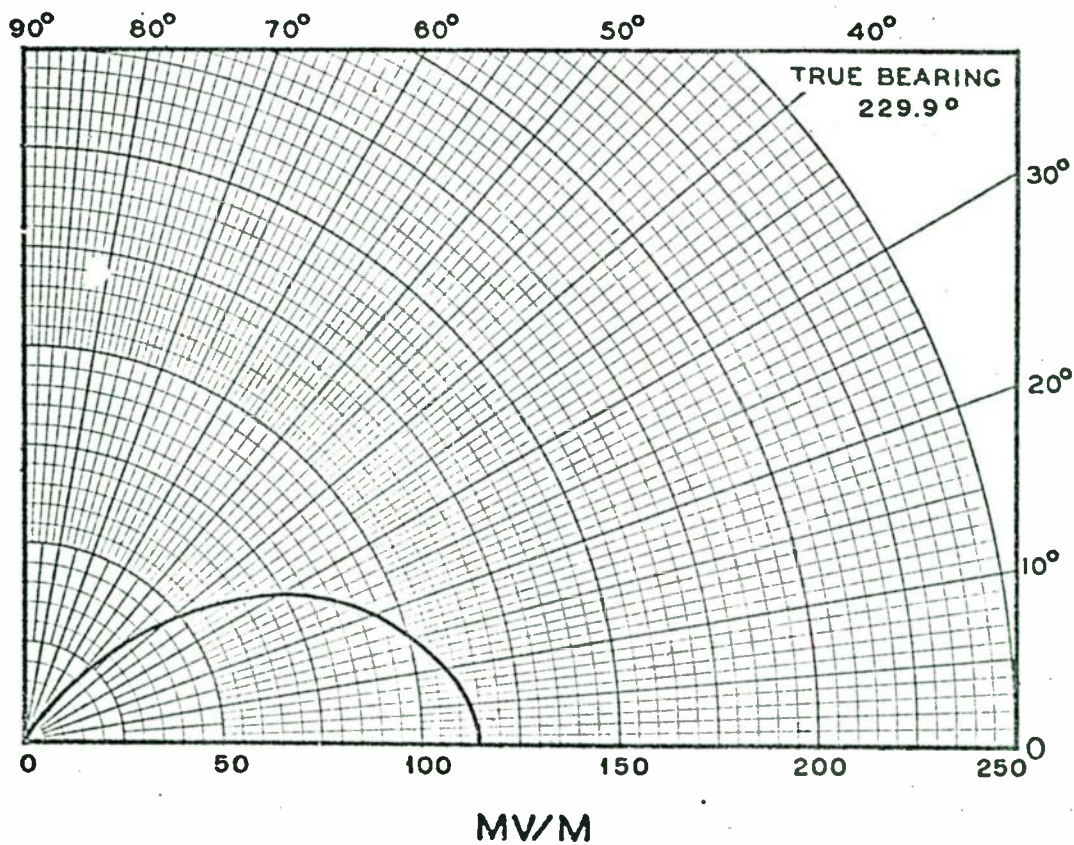
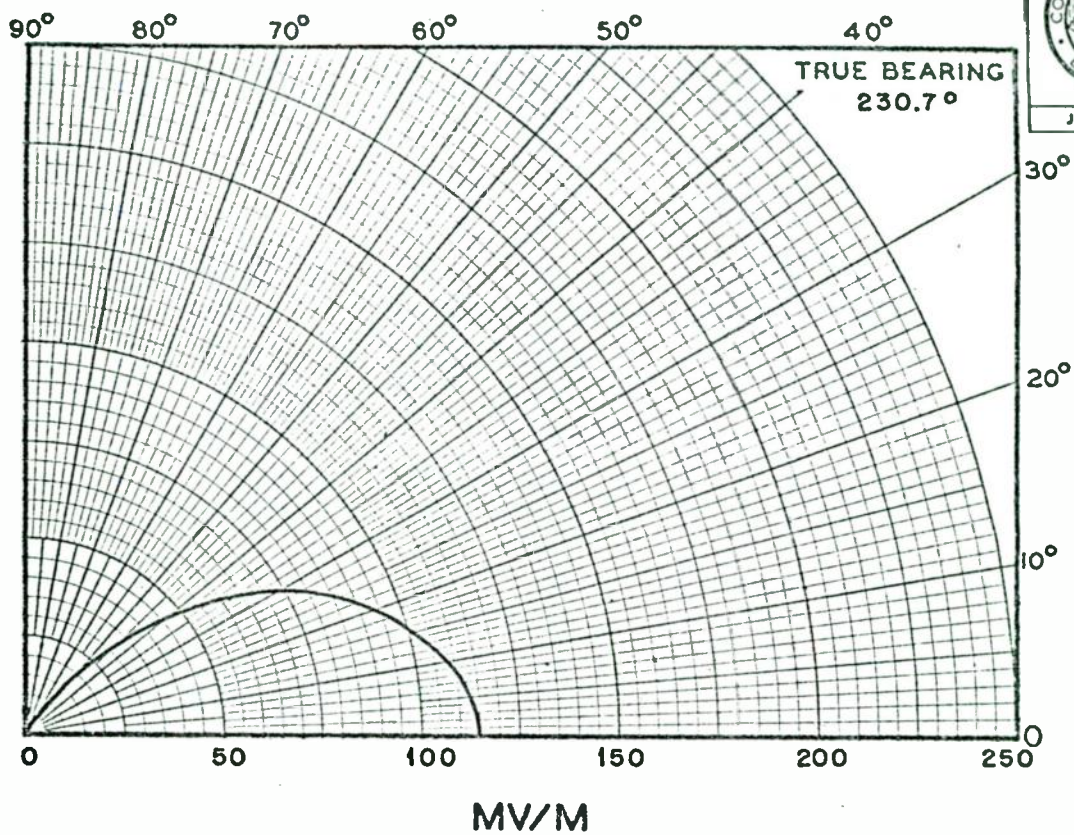


MV/M

FROM WPOW / WEVD TOWARD WFBC POINT NO. 2

FIGURE 6-VV

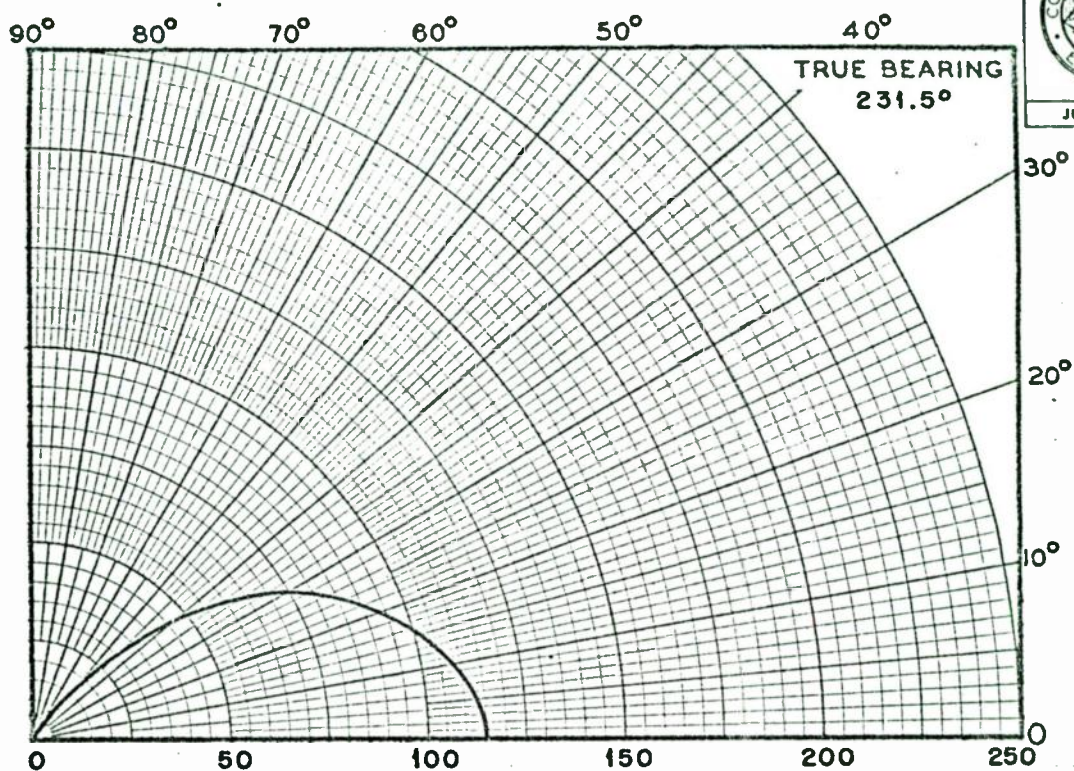
VERTICAL PLANE PATTERNS



FROM WPOW / WEVD TOWARD WFBC POINT NO. 4

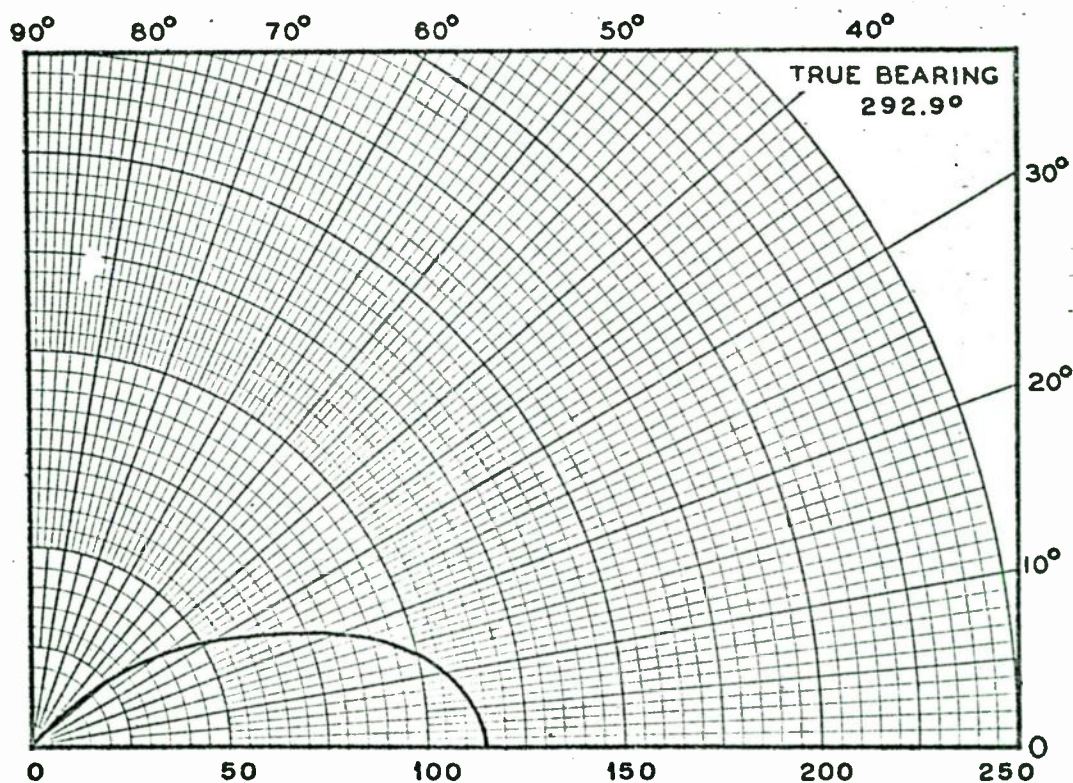
FIGURE 6-WW

VERTICAL PLANE PATTERNS



MV/M

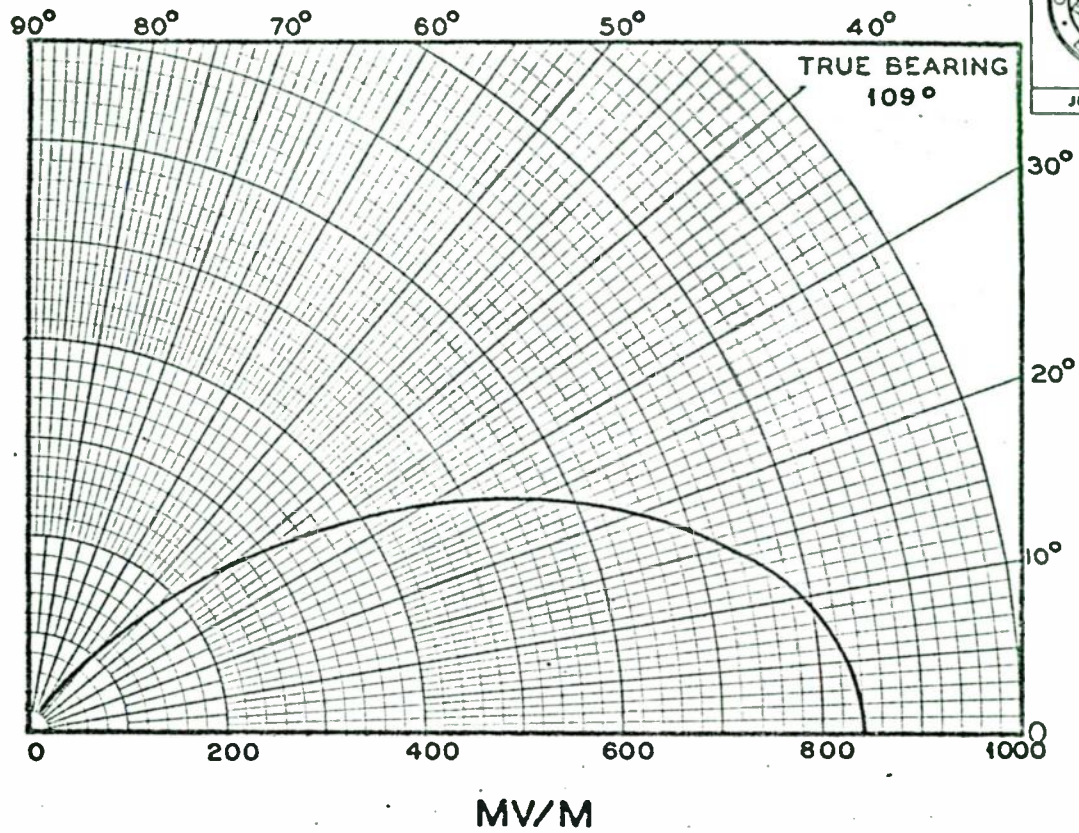
FROM WPOW / WEVD TOWARD WFBC POINT NO. 6



MV/M

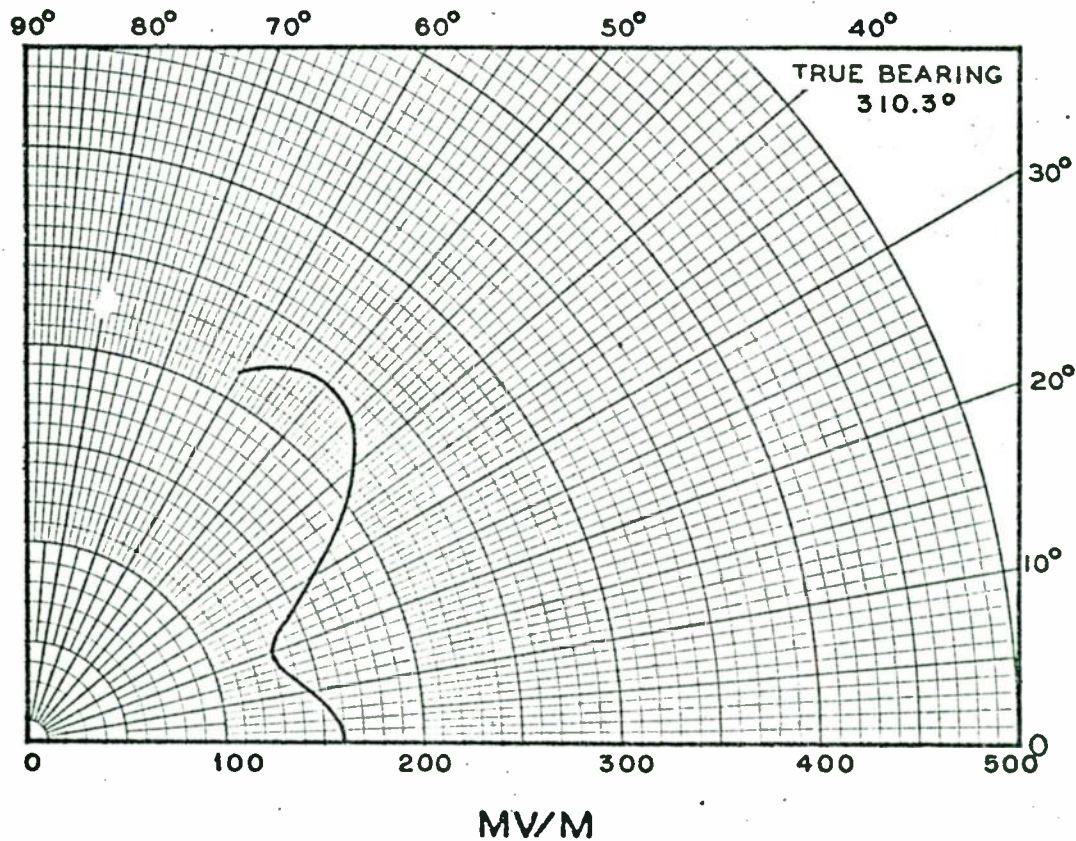
FROM WPOW / WEVD TOWARD WHBL POINT NO. 4

VERTICAL PLANE PATTERNS



FROM WFBC TOWARD WLAT

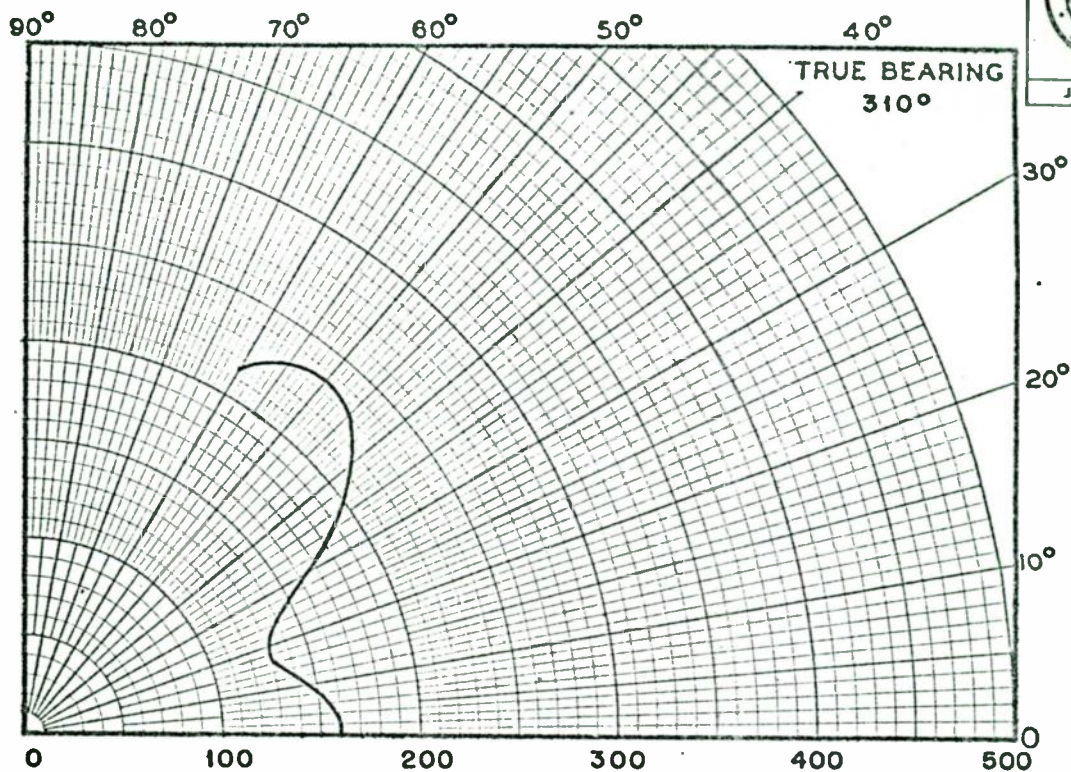
AC



FROM WFBC TOWARD WJPS POINT NO. 1

FIGURE 6-YY

VERTICAL PLANE PATTERNS



AC

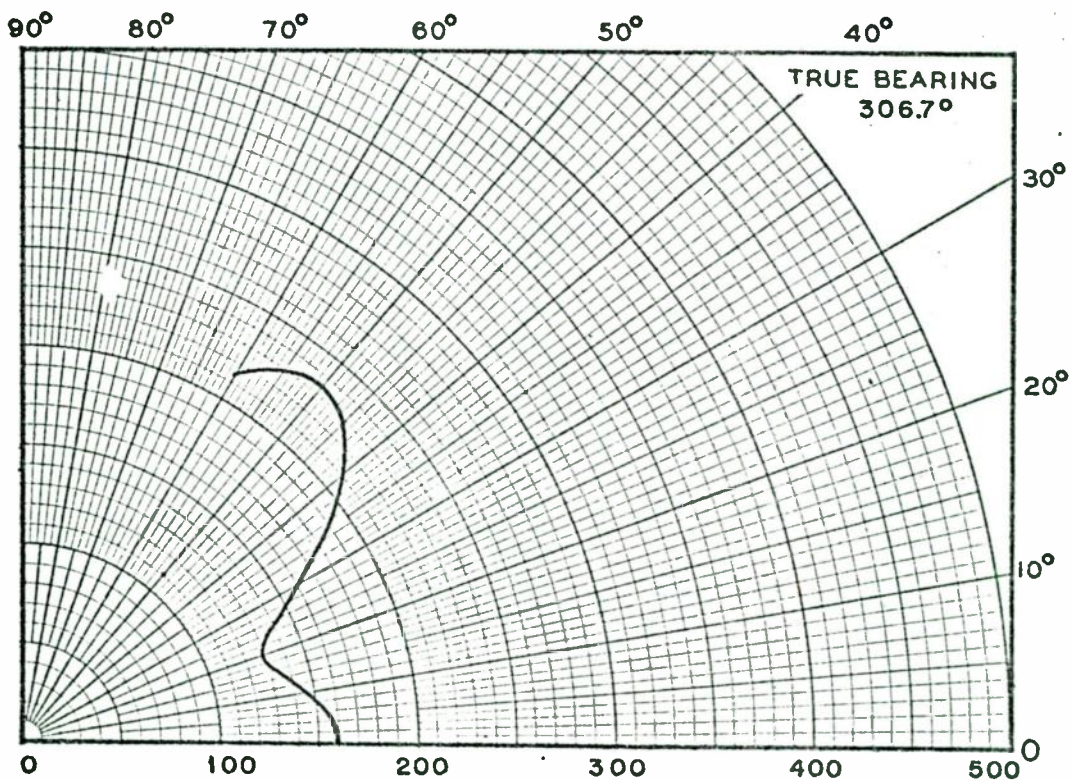
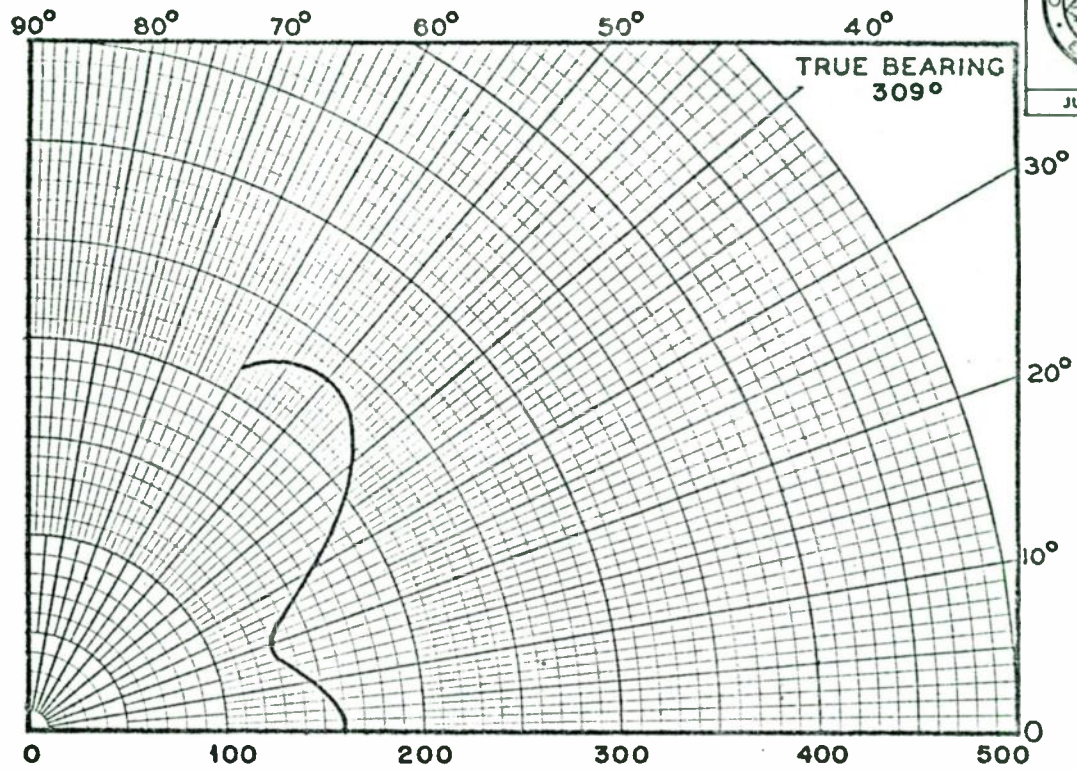


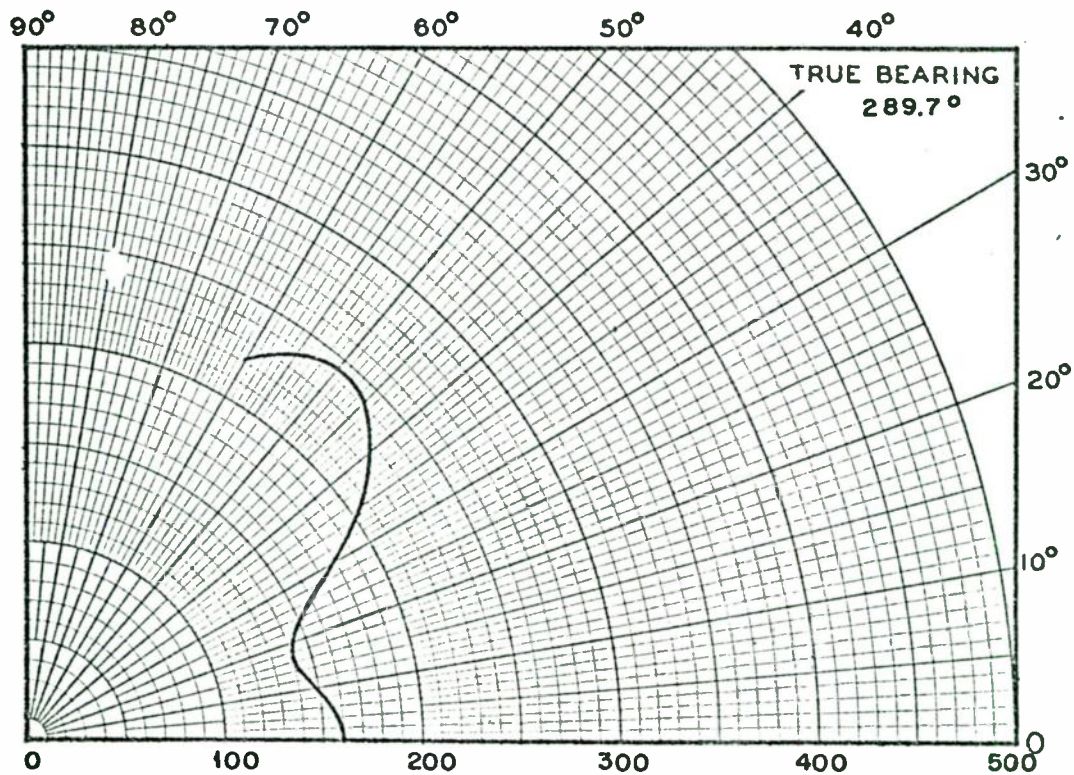
FIGURE 6-ZZ

VERTICAL PLANE PATTERNS



MV/M

FROM WFBC TOWARD WJPS POINT NO. 4

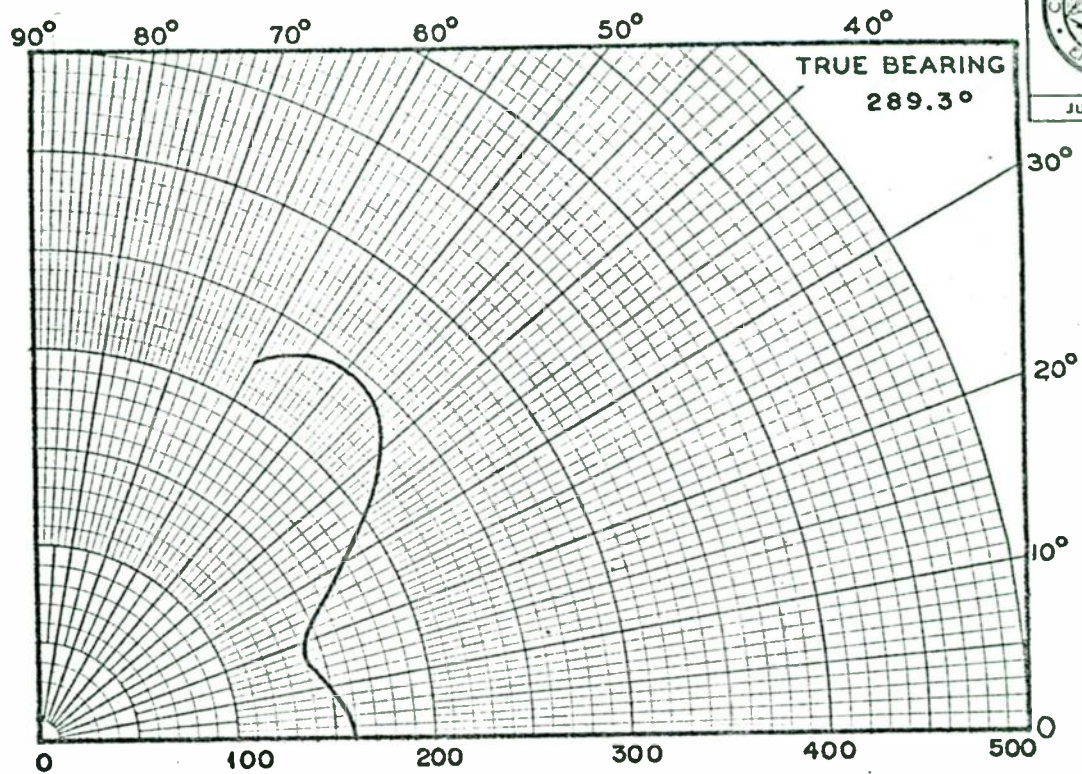


MV/M

FROM WFBC TOWARD KFH POINT NO. 1

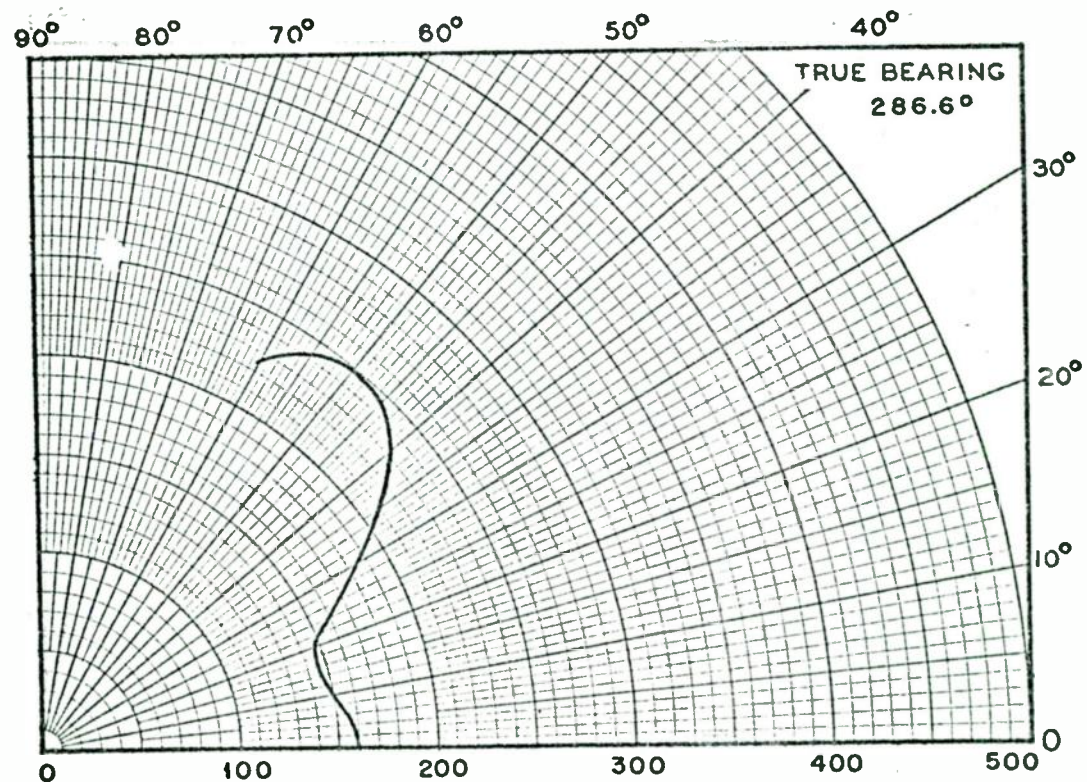
FIGURE 6-AAA

VERTICAL PLANE PATTERNS



MV/M

FROM WFBC TOWARD KFJ POINT NO. 2

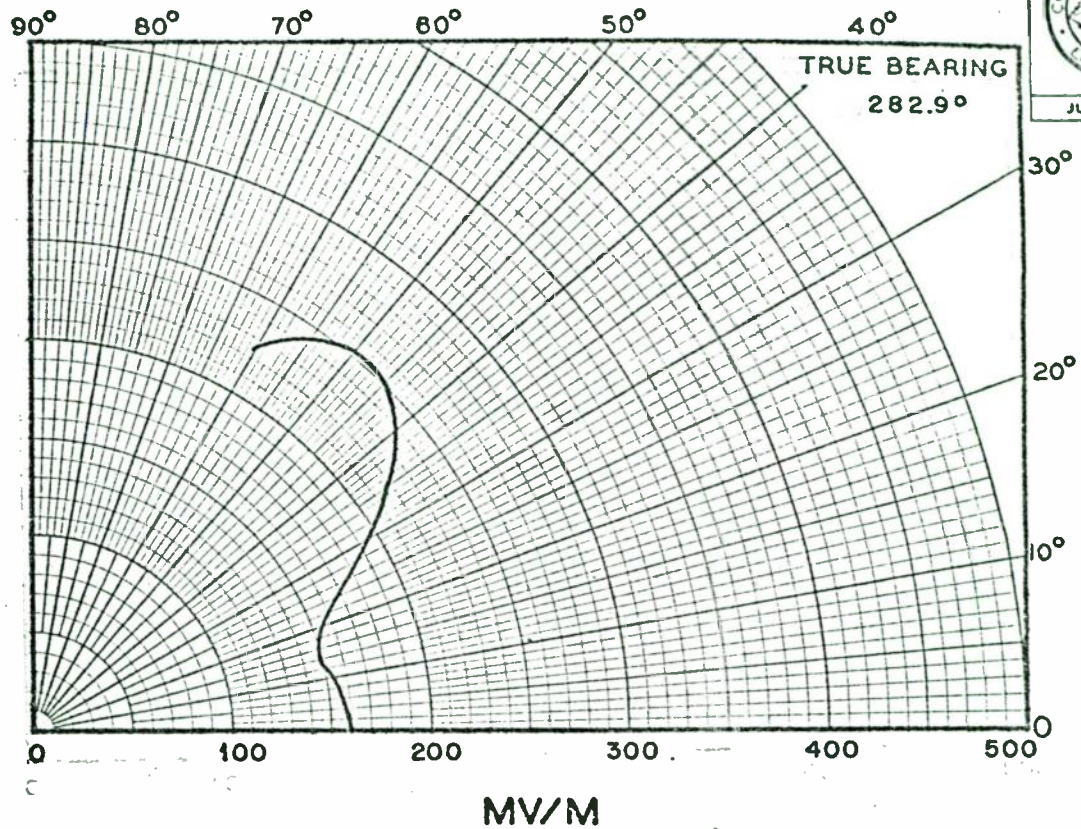


MV/M

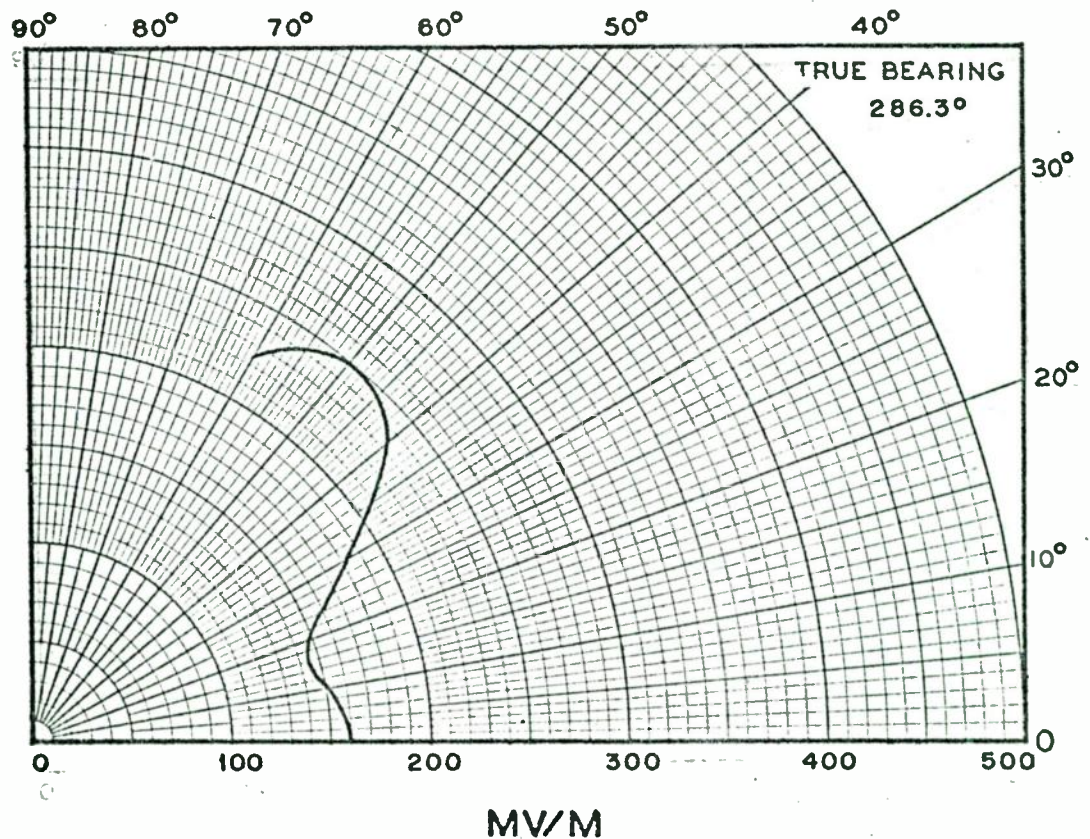
FROM WFBC TOWARD KFJ POINT NO. 3

FIGURE 6-BBB

VERTICAL PLANE PATTERNS



FROM WFBC TOWARD KFH POINT NO. 4

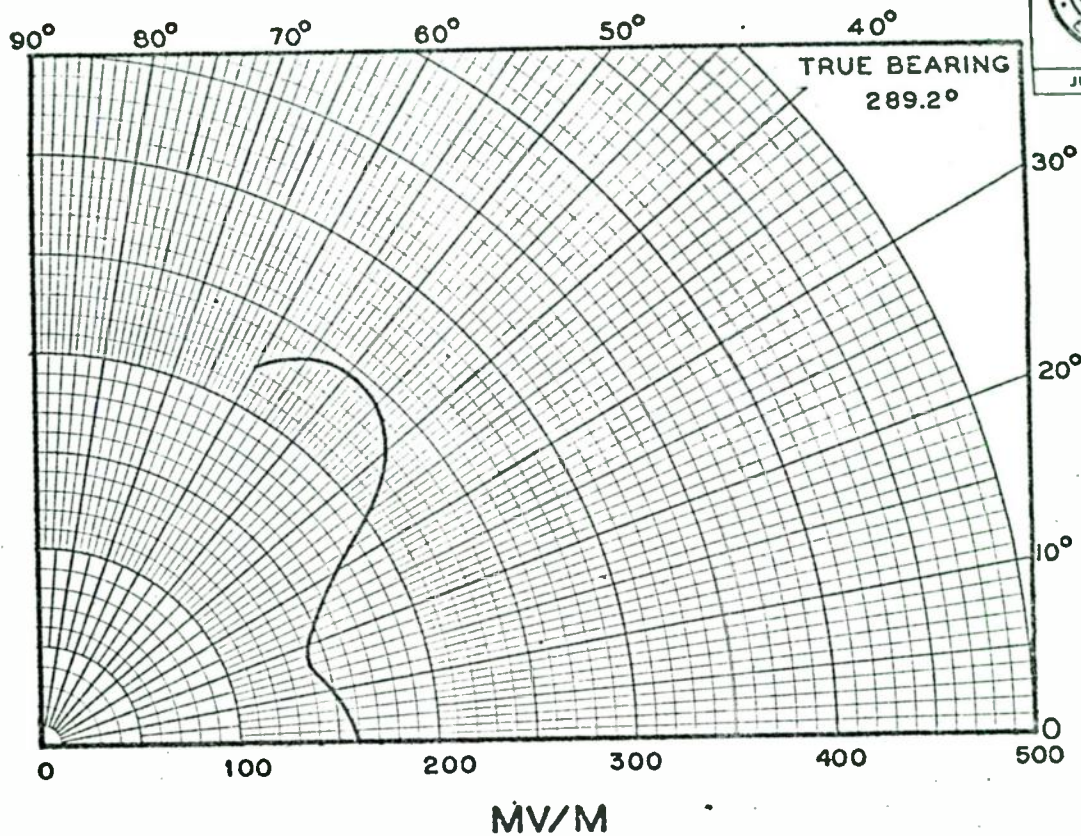
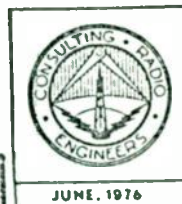


FROM WFBC TOWARD KFH POINT NO. 5

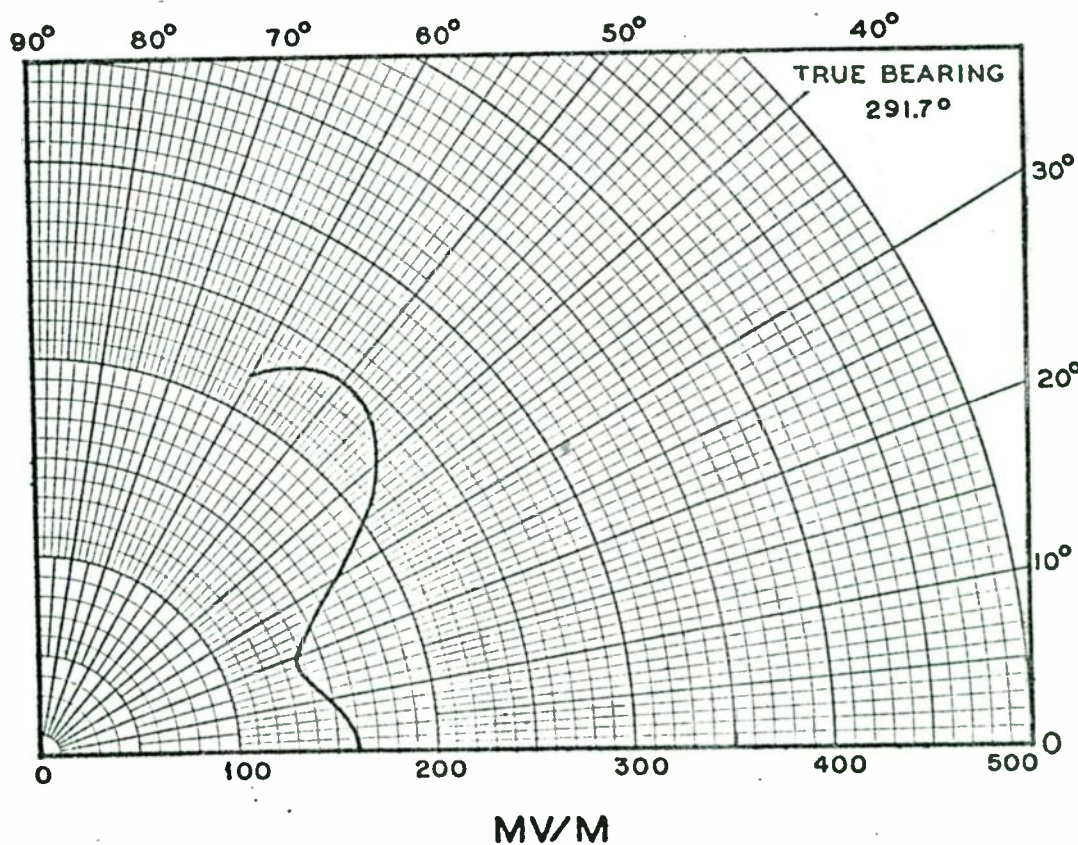
FROM KFH POINT NO. 4 TOWARD KFH POINT NO. 5

FIGURE 6-CCC
FIGURE 6-CCC

VERTICAL PLANE PATTERNS

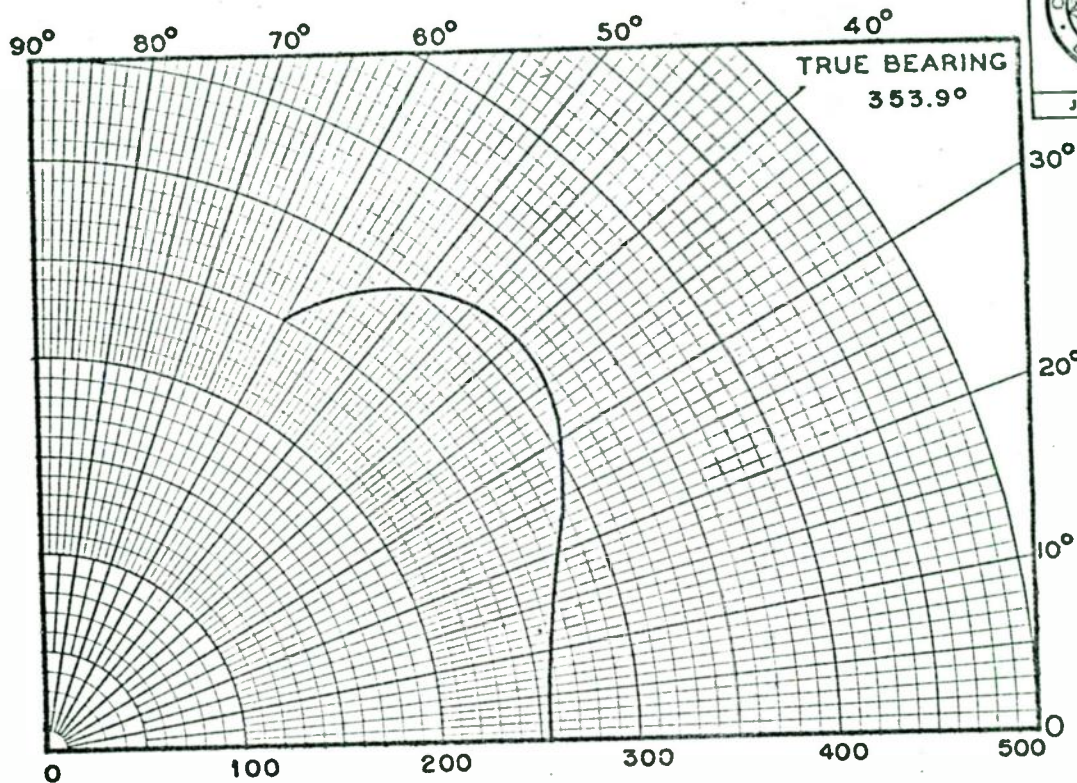
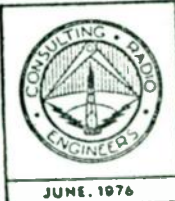


FROM WFBC TOWARD KFH POINT NO. 6



FROM WFBC TOWARD KFH POINT NO. 7

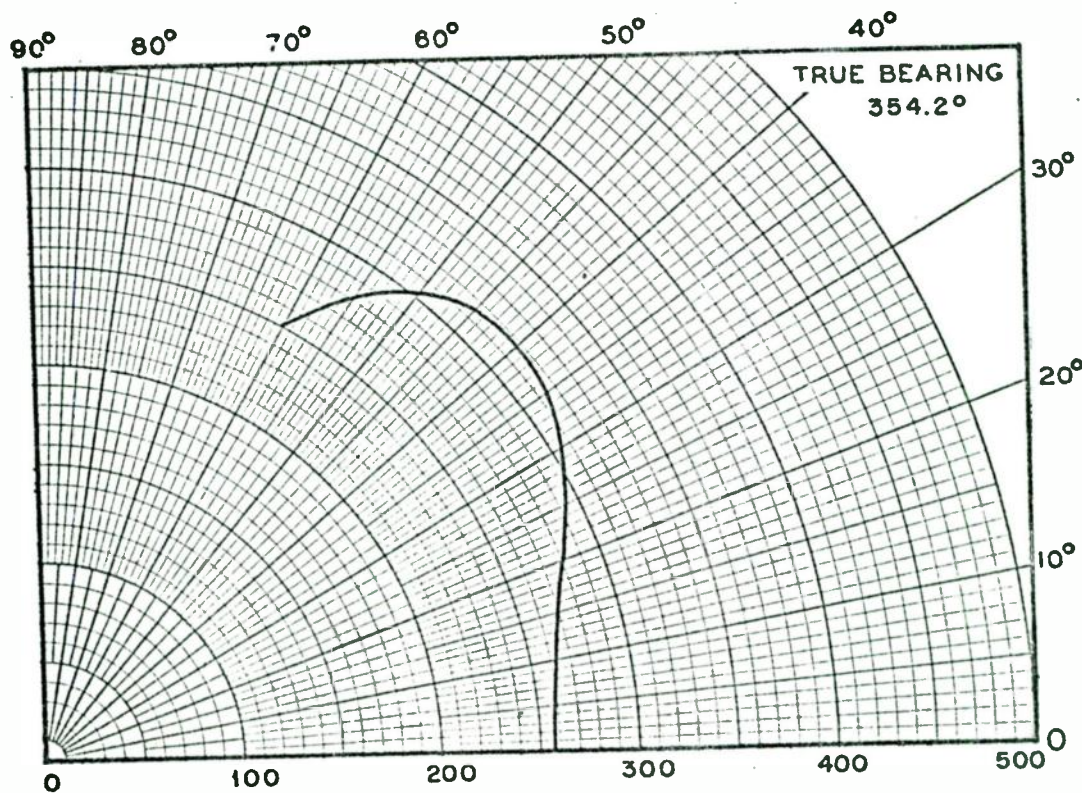
VERTICAL PLANE PATTERNS



MV/M

FROM WFBC TOWARD WTRX POINT NO. 1

AC

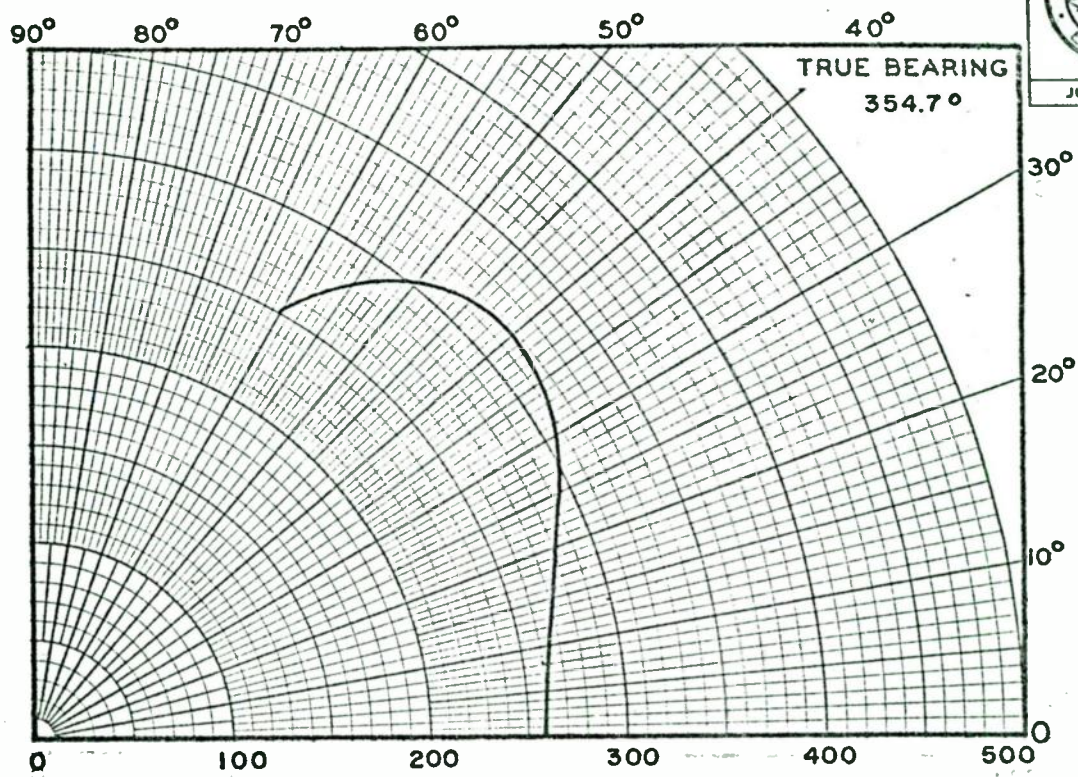
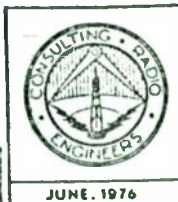


MV/M

FROM WFBC TOWARD WTRX POINT NO. 2

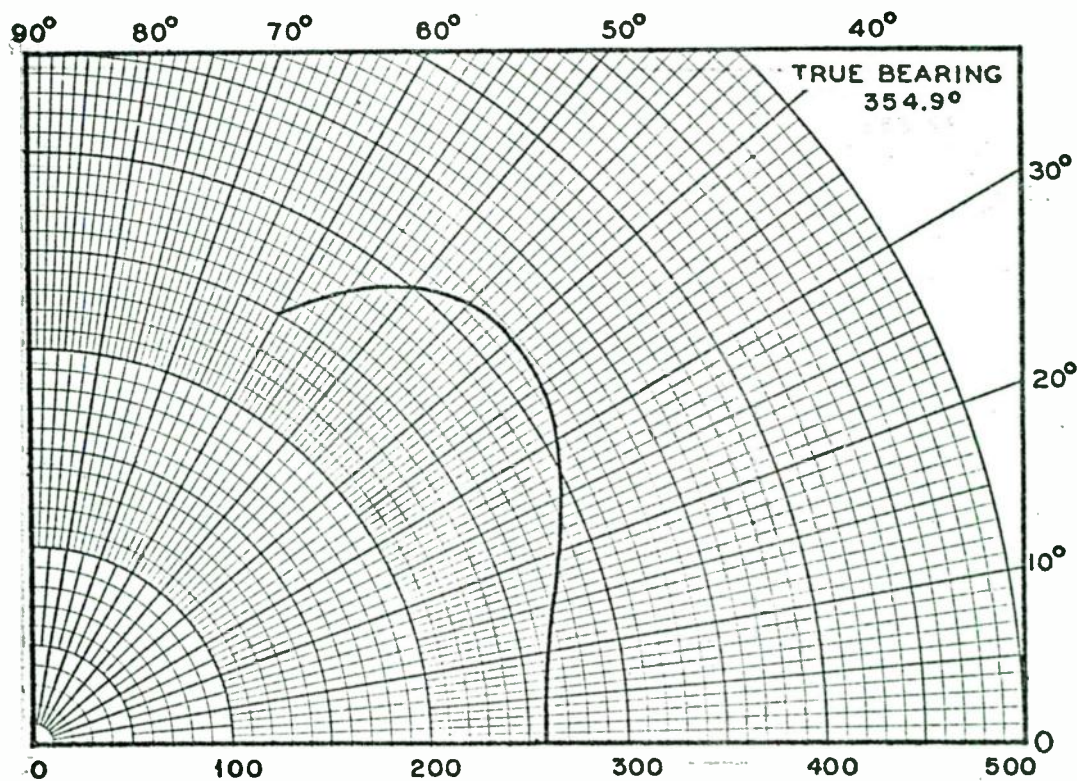
FIGURE 6-EEE

VERTICAL PLANE PATTERNS



MV/M

FROM WFBC TOWARD WTRX POINT NO.3

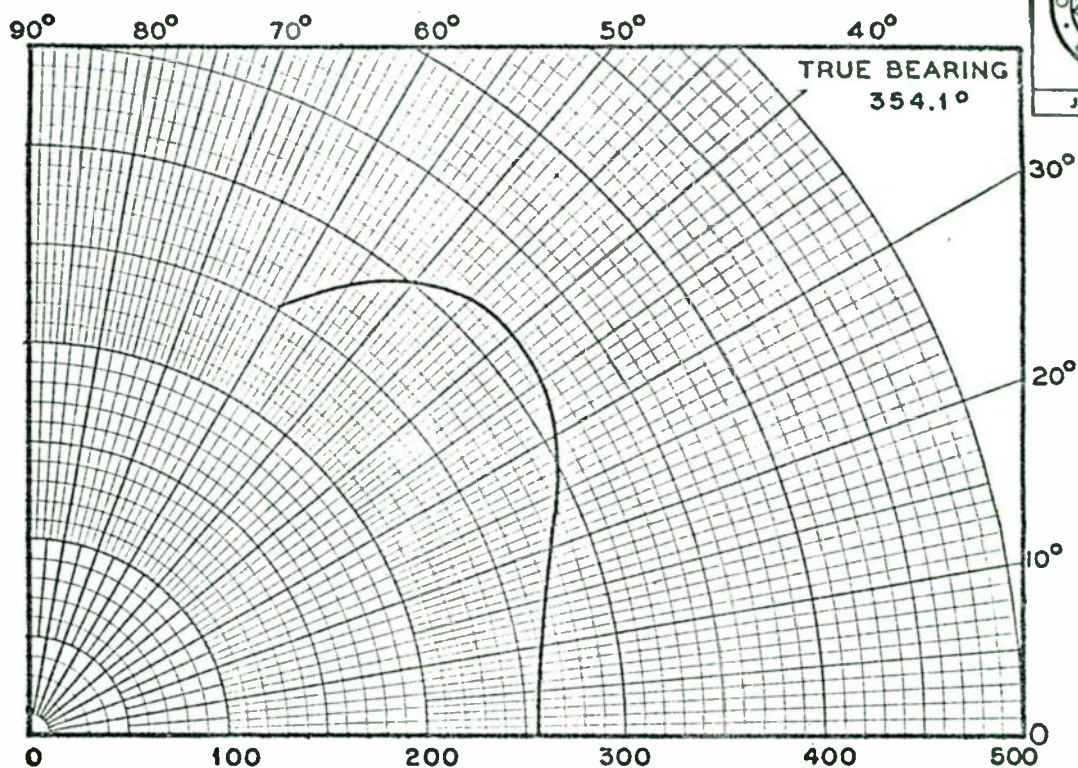
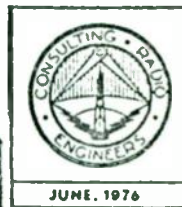


MV/M

FROM WFBC TOWARD WTRX POINT NO. 4

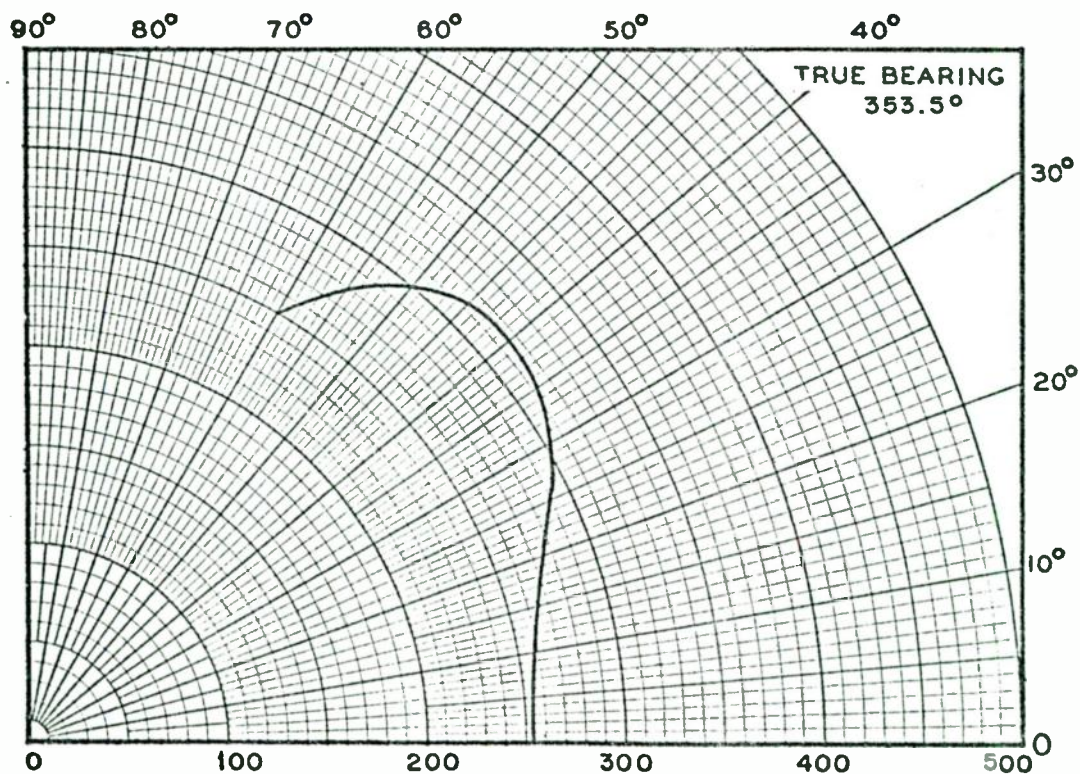
FIGURE 6-FFF

VERTICAL PLANE PATTERNS



MV/M

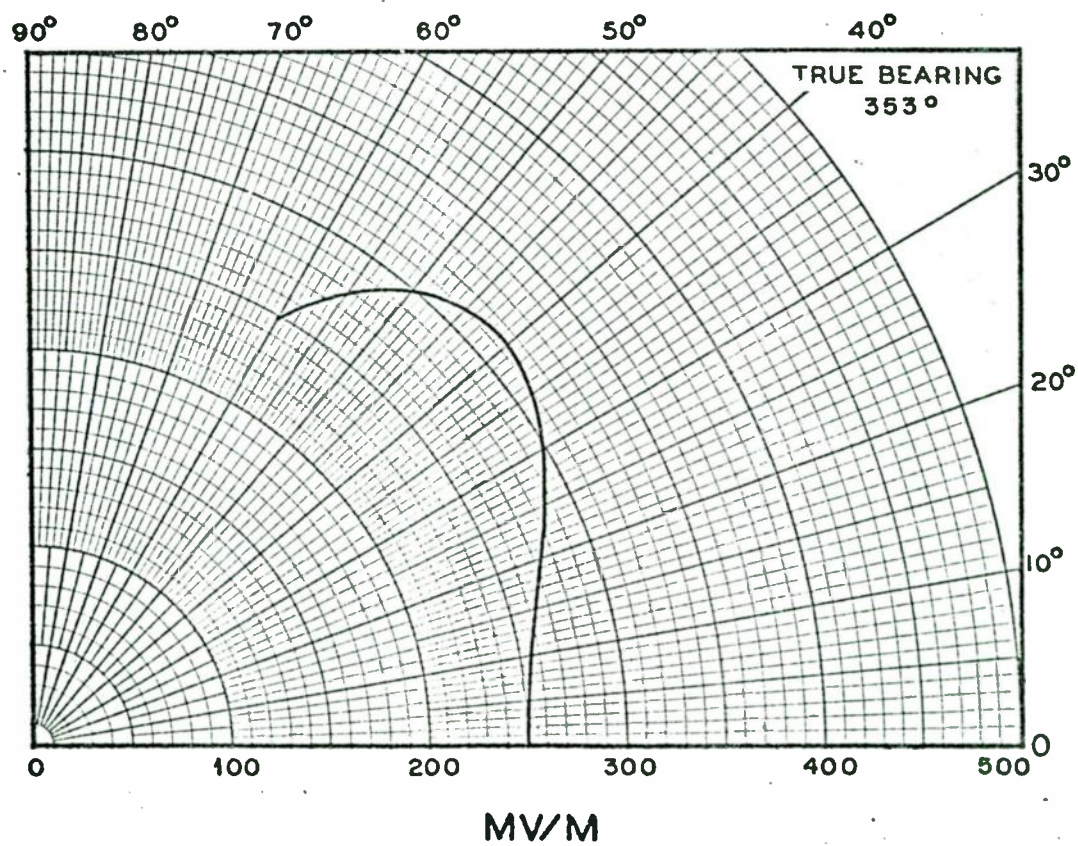
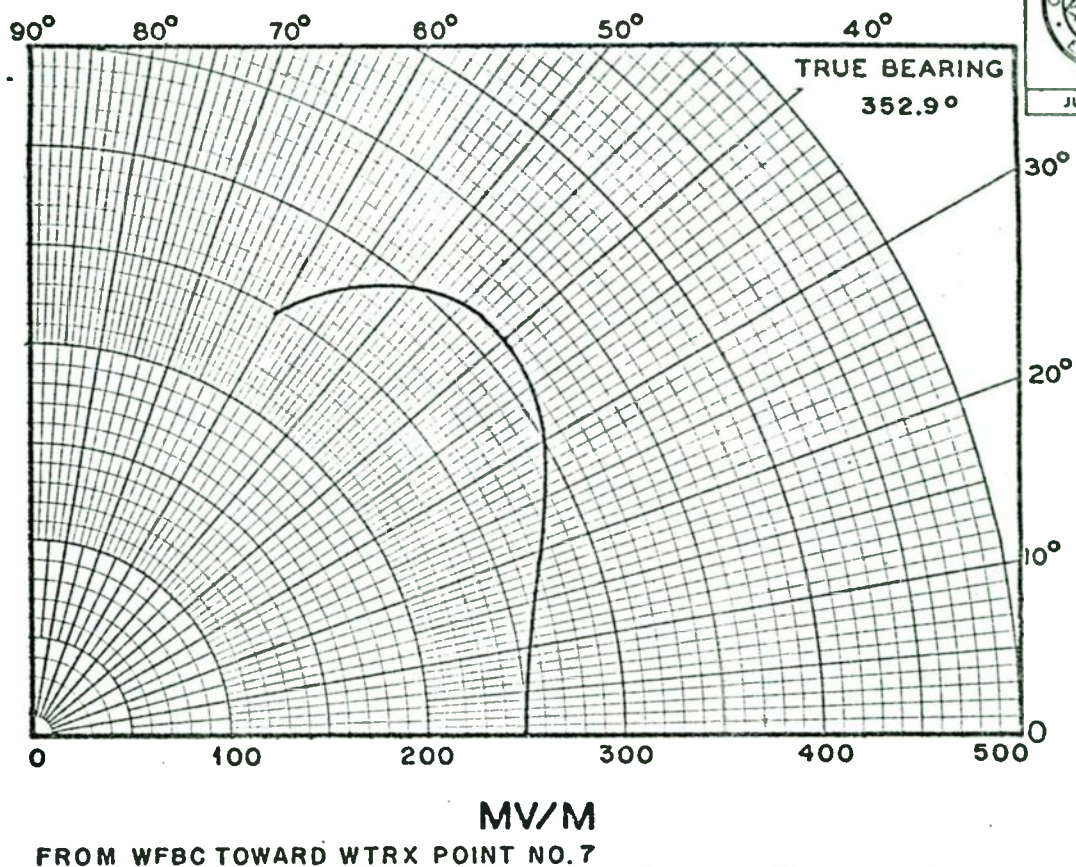
FROM WFBC TOWARD WTRX POINT NO. 5



MV/M

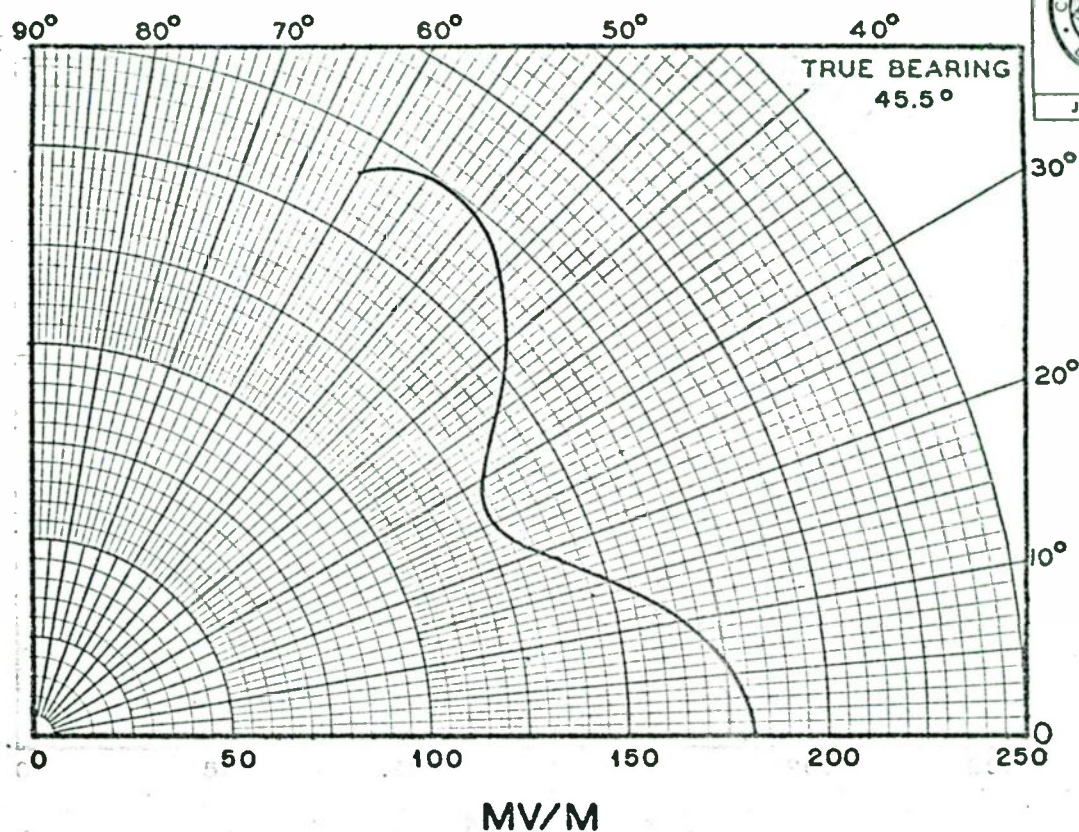
FROM WFBC TOWARD WTRX POINT NO. 6

VERTICAL PLANE PATTERNS

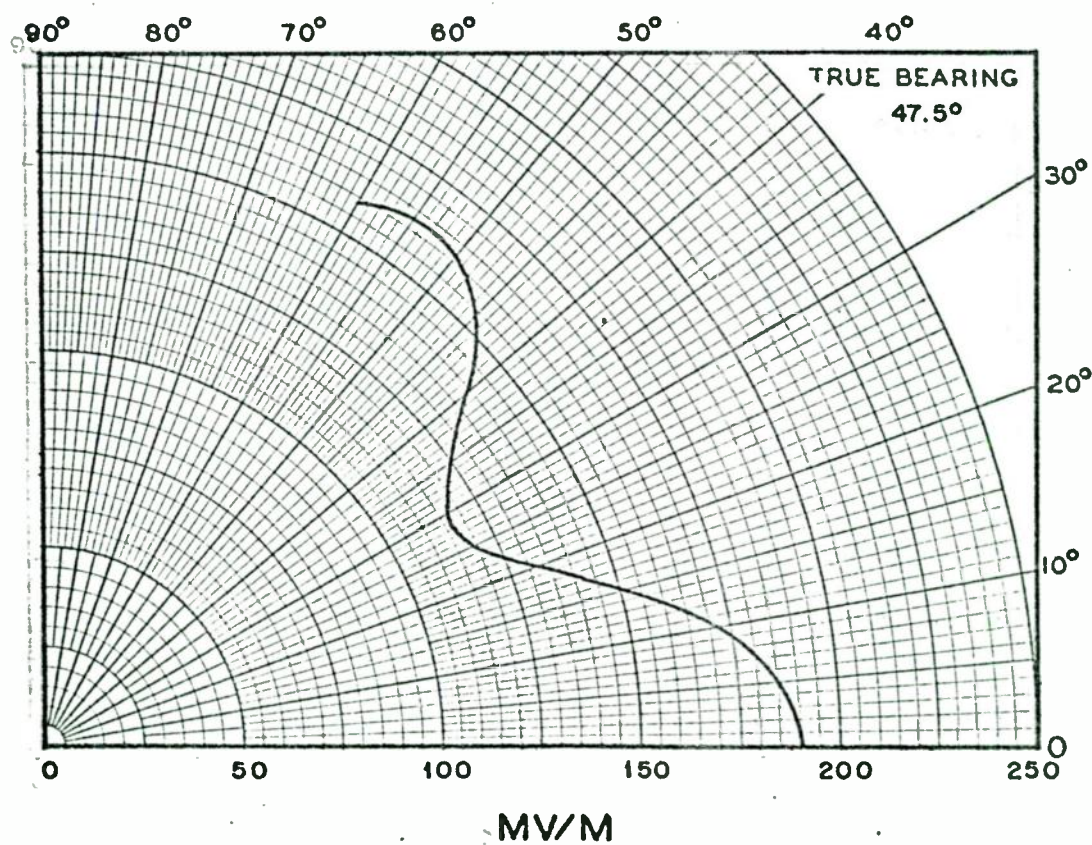


FROM WFBC TOWARD WTRX POINT NO. 8

VERTICAL PLANE PATTERNS



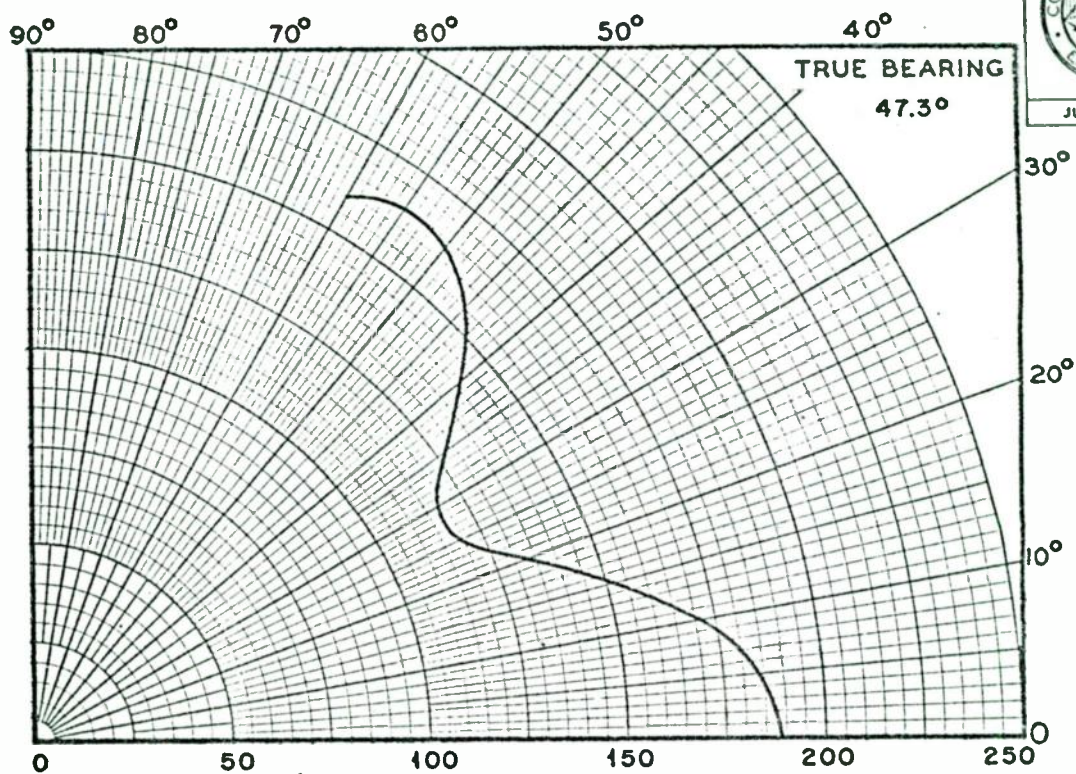
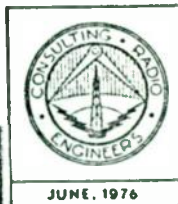
FROM WFBC TOWARD WPOW POINTS NO. 1 AND 5



FROM WFBC TOWARD WPOW POINT NO. 2

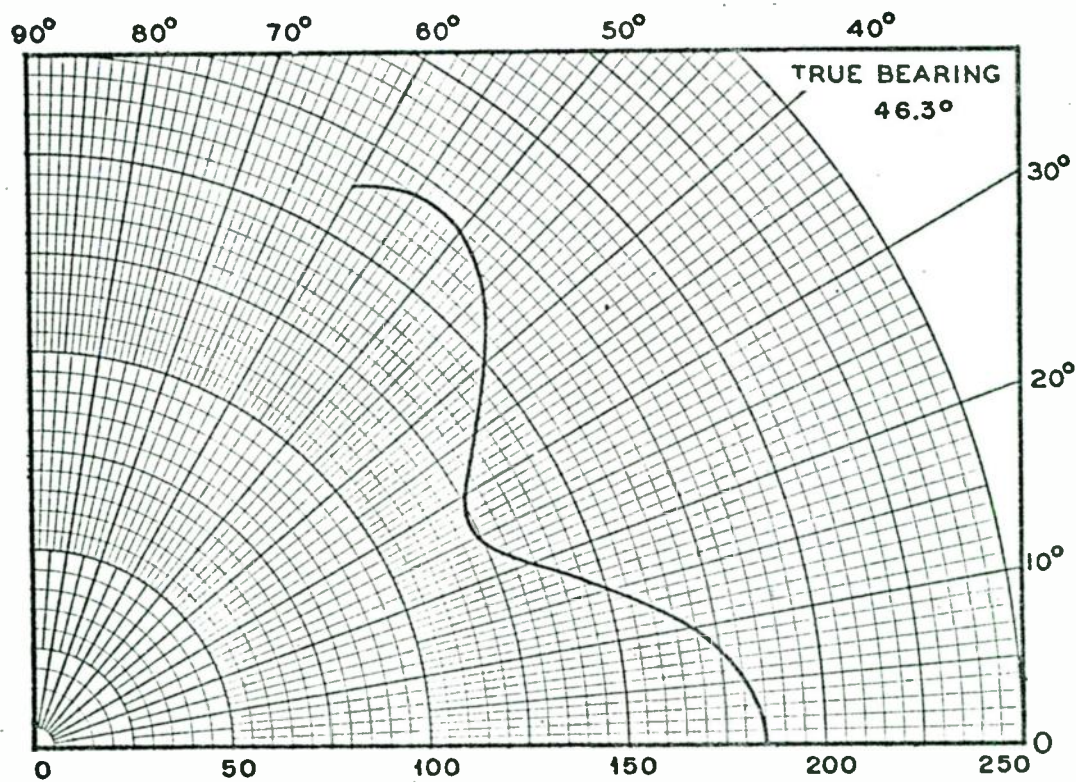
FIGURE 6-III

VERTICAL PLANE PATTERNS



MV/M

FROM WFBC TOWARD WPOW POINT NO. 3

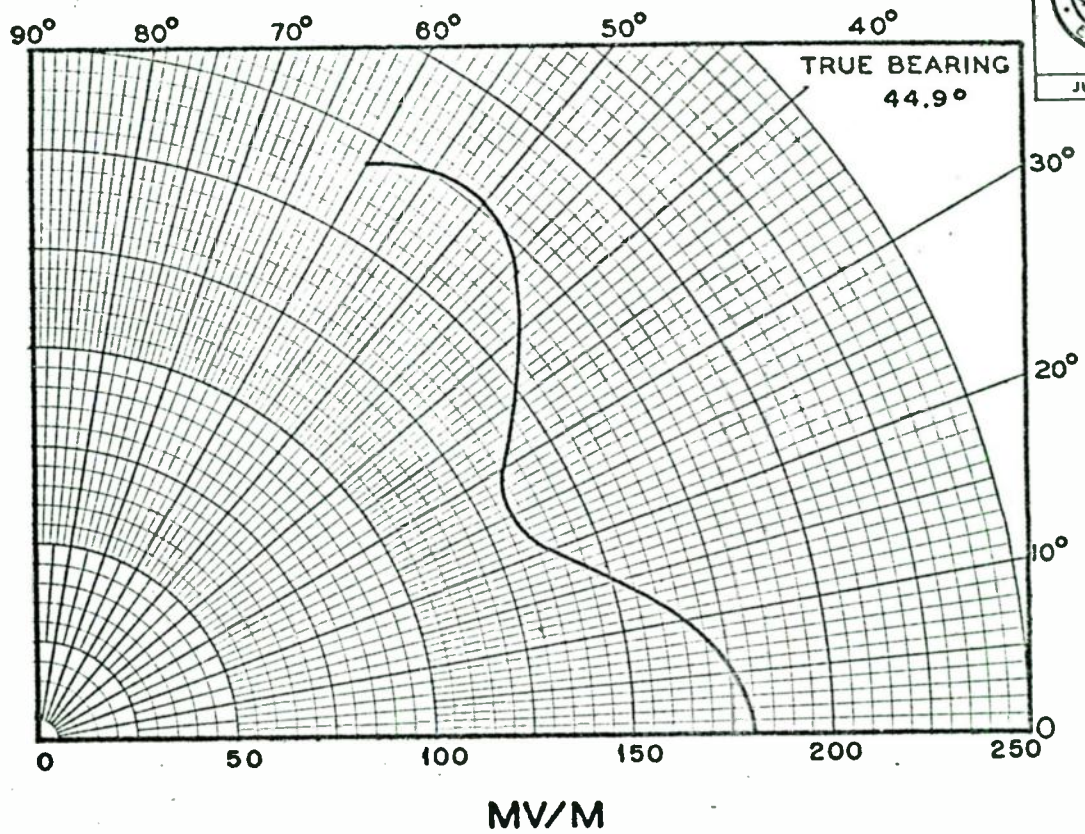
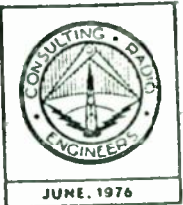


MV/M

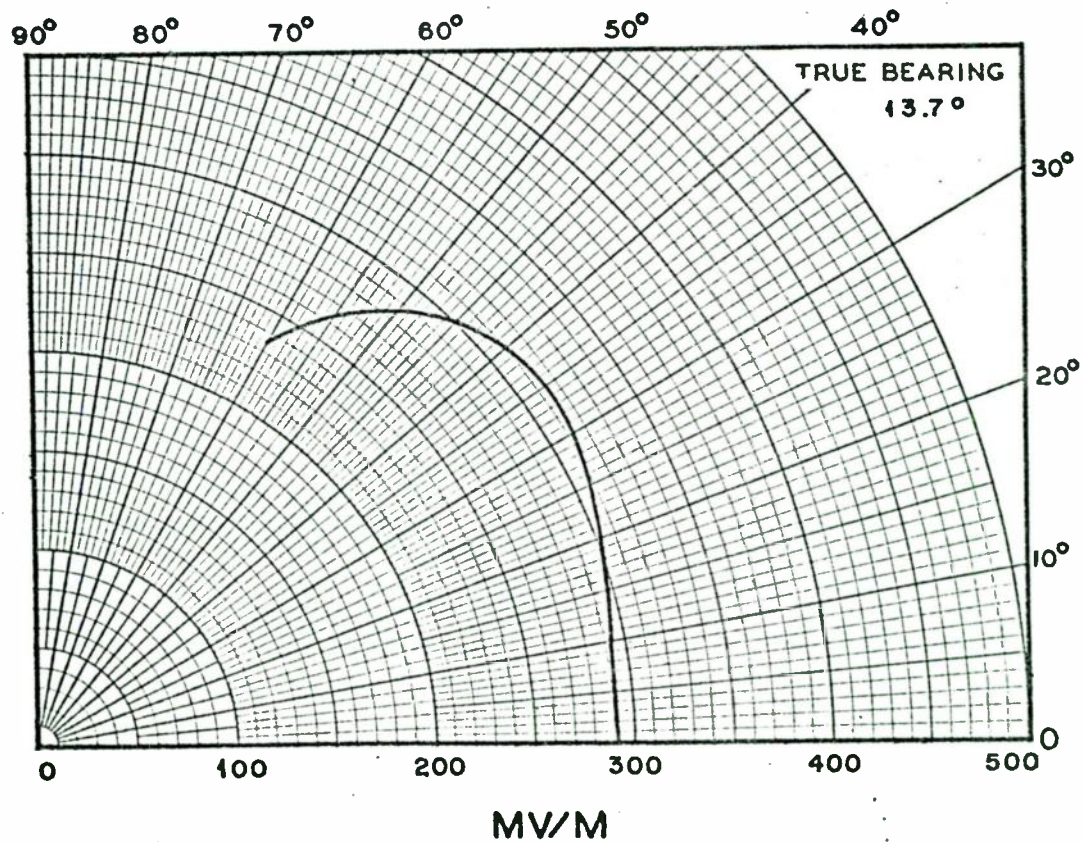
FROM WFBC TOWARD WPOW POINT NO. 4

FIGURE 6-JJJ

VERTICAL PLANE PATTERNS



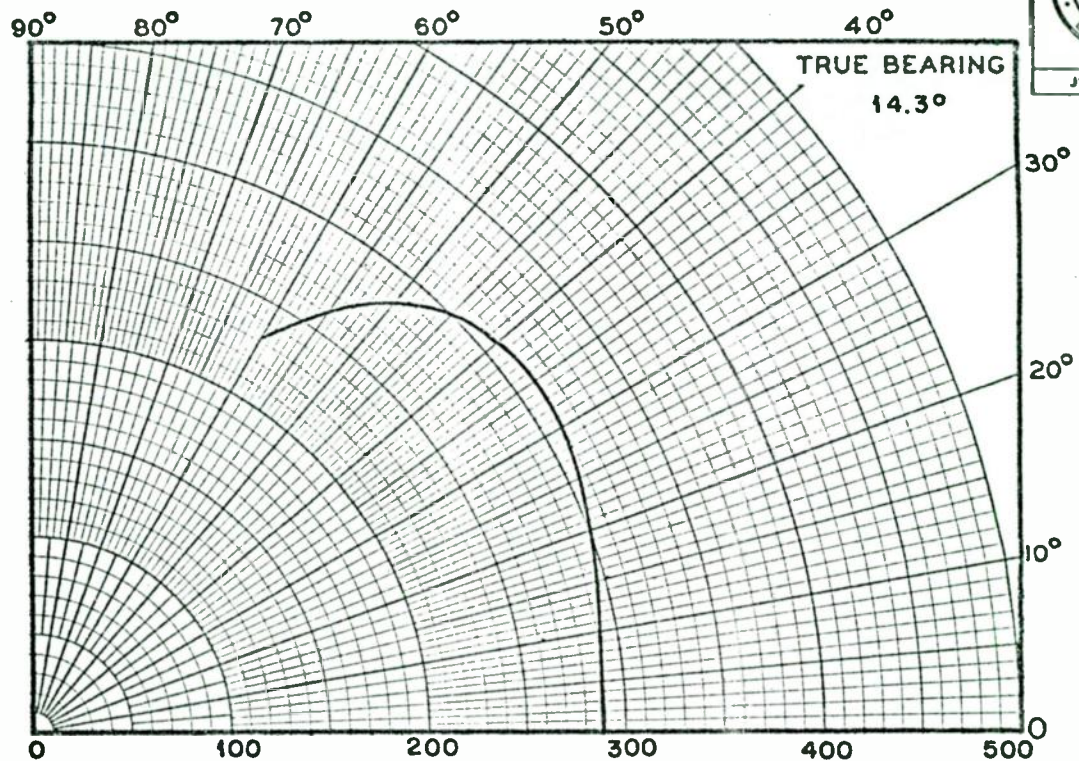
FROM WFBC TOWARD WPOW POINT NO. 6



FROM WFBC TOWARD WRIE POINTS NO. 1 AND NO. 5

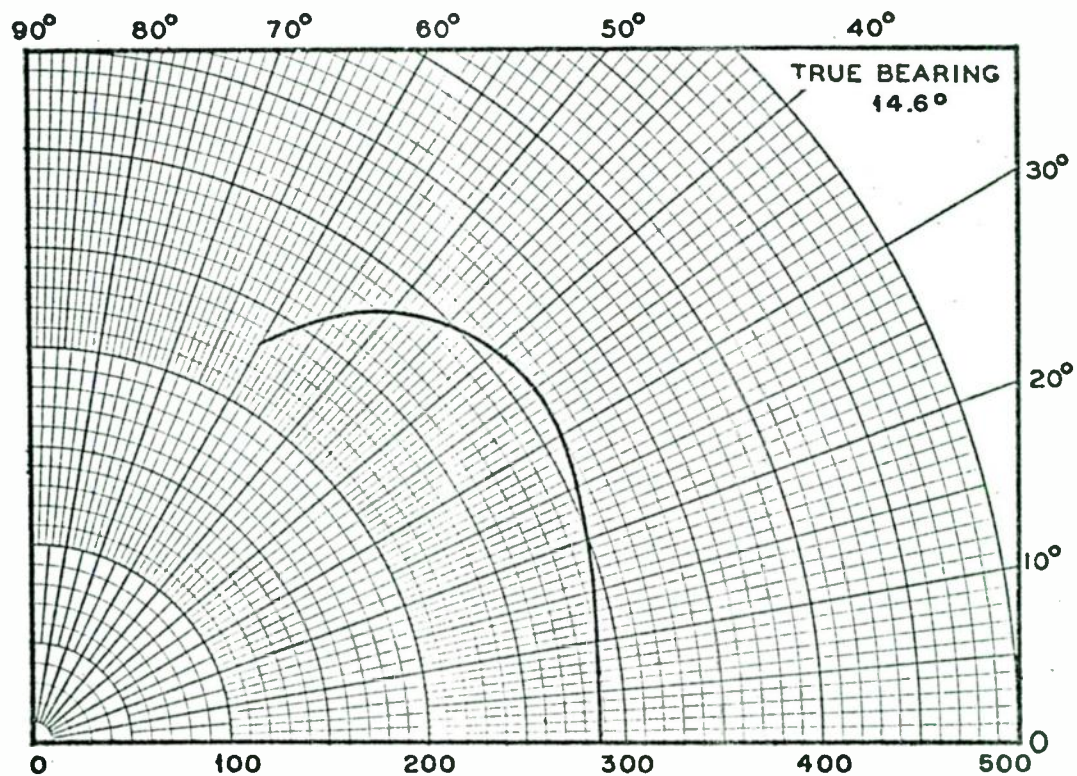
FIGURE 6-KKK

VERTICAL PLANE PATTERNS



MV/M

FROM WFBC TOWARD WRIE POINT NO. 2

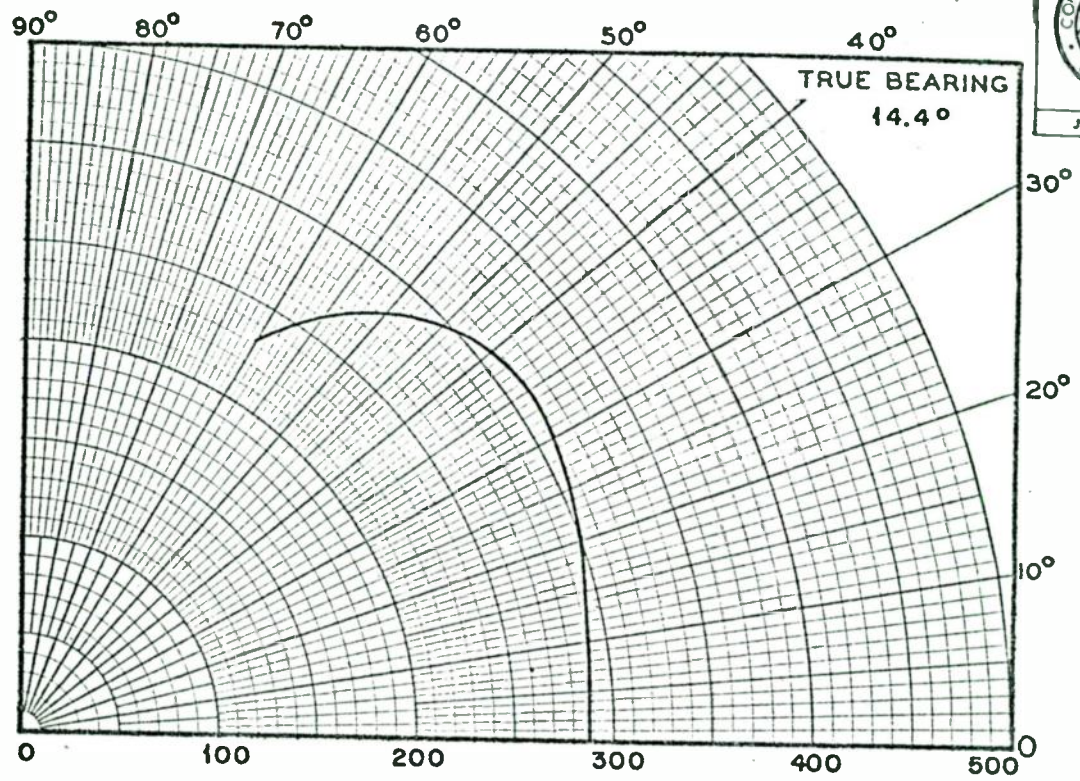
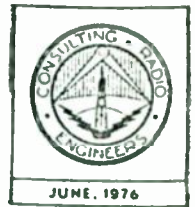


MV/M

FROM WFBC TOWARD WRIE POINT NO. 3

FIGURE 6-LLL

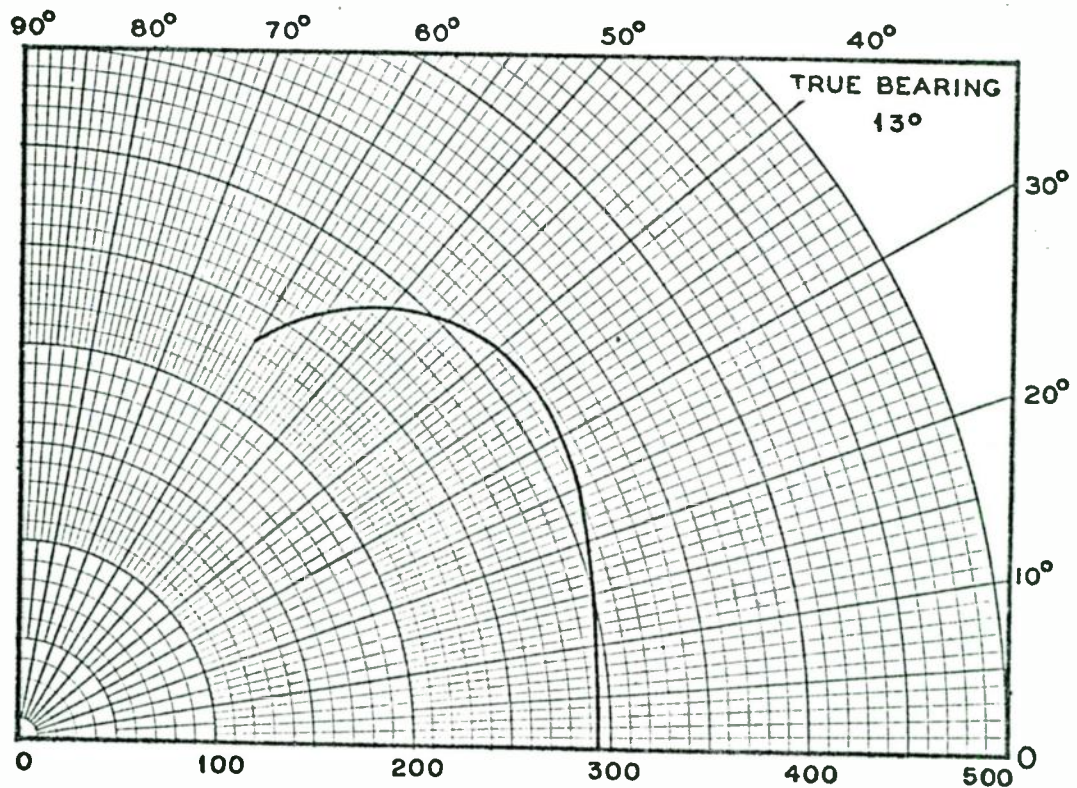
VERTICAL PLANE PATTERNS



MV/M

FROM WFBC TOWARD WRIE POINT NO. 4

AC

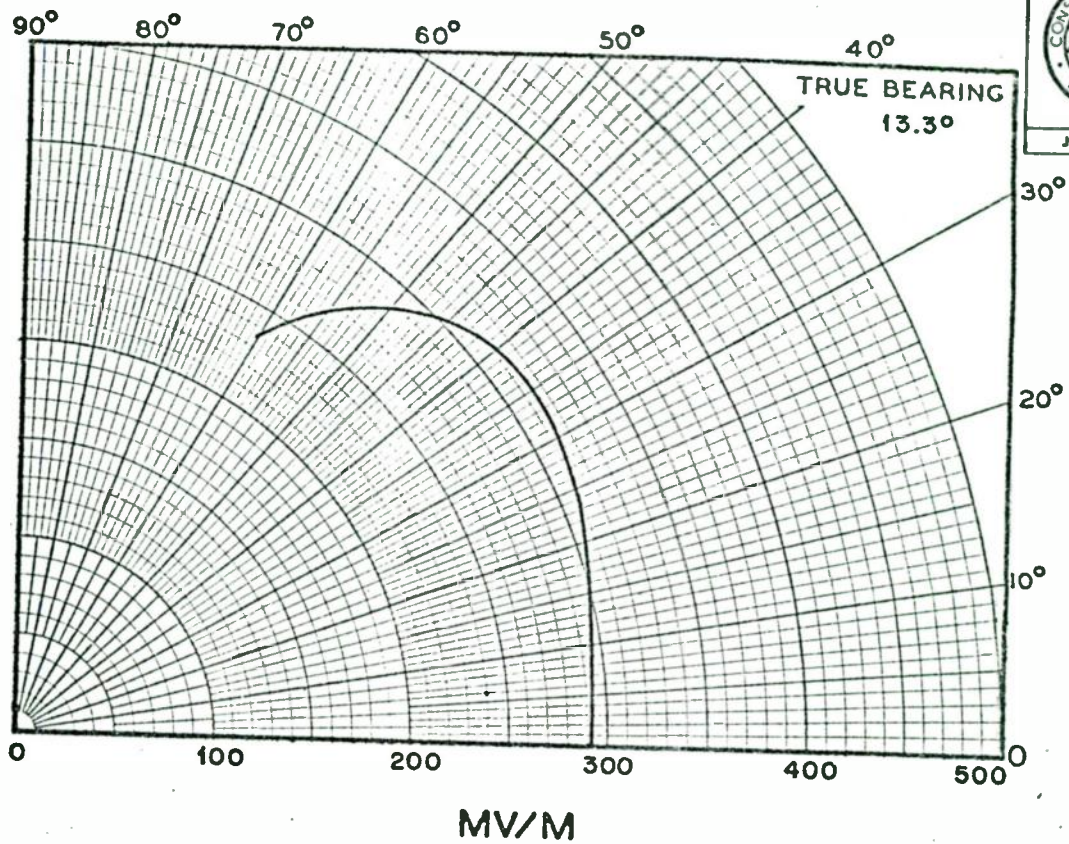


MV/M

FROM WFBC TOWARD WRIE POINT NO. 6

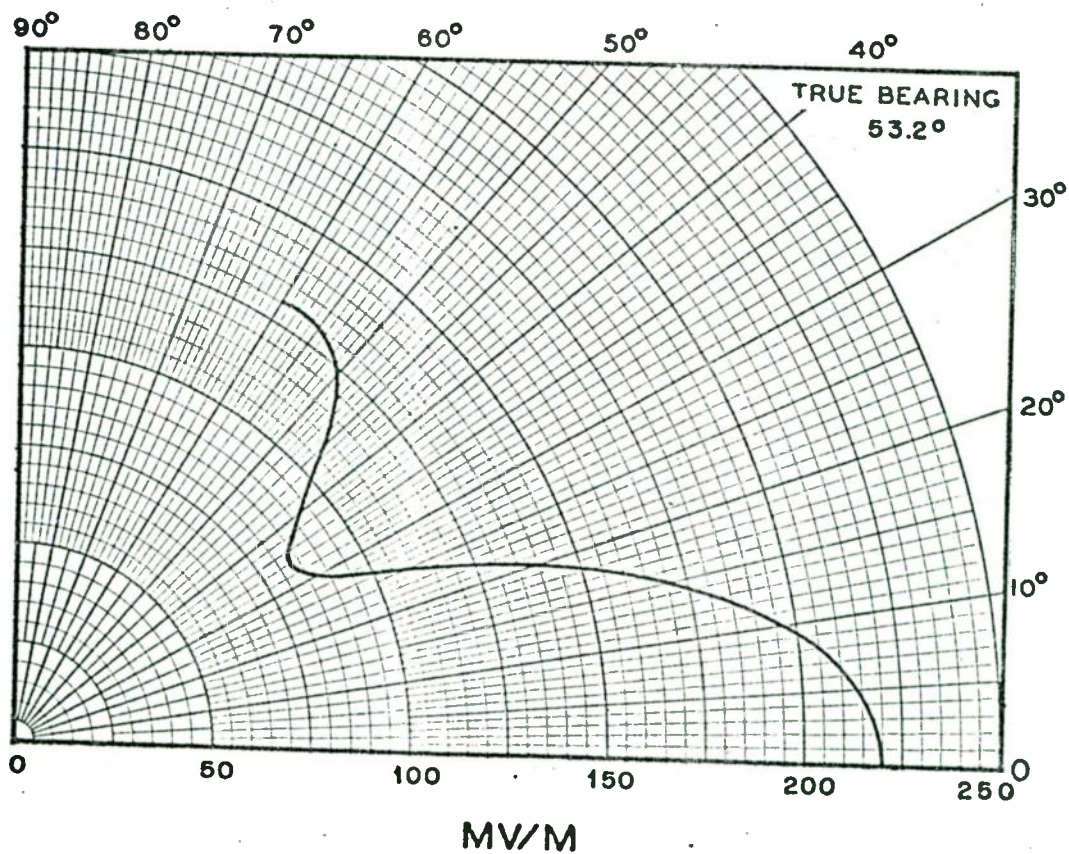
FIGURE 6-MMM

VERTICAL PLANE PATTERNS



AC

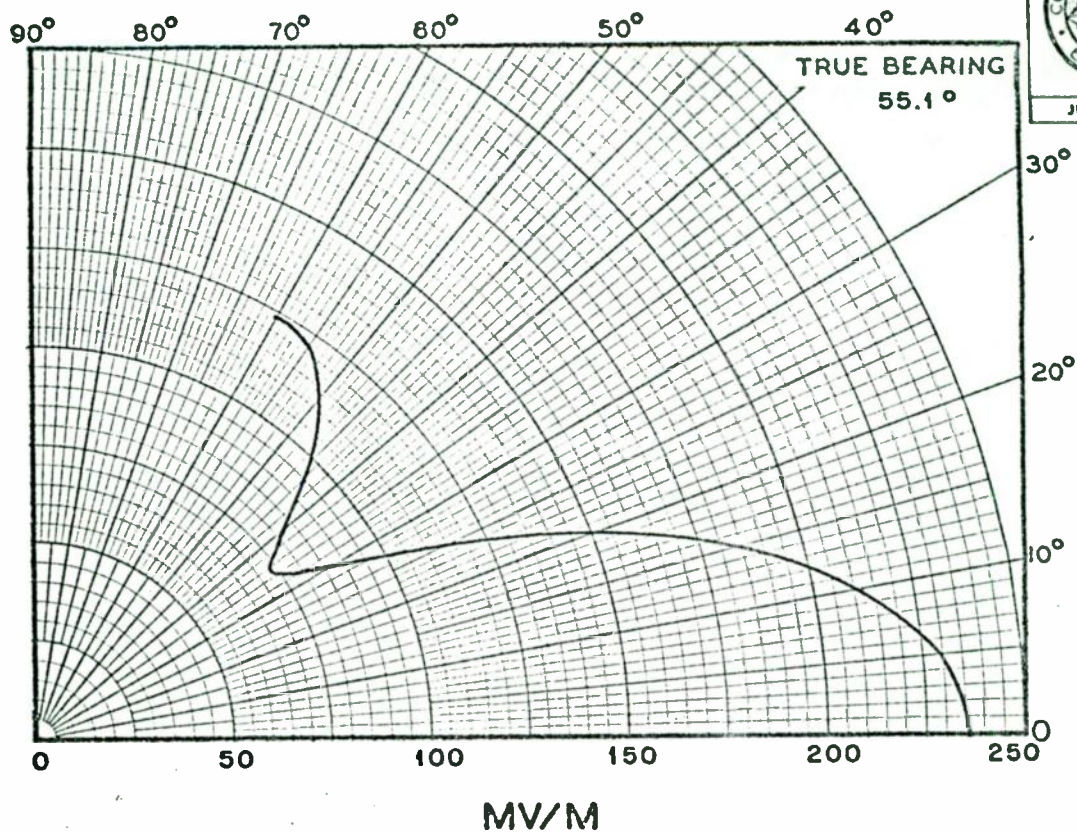
FROM WFBC TOWARD WRIE POINT NO.7



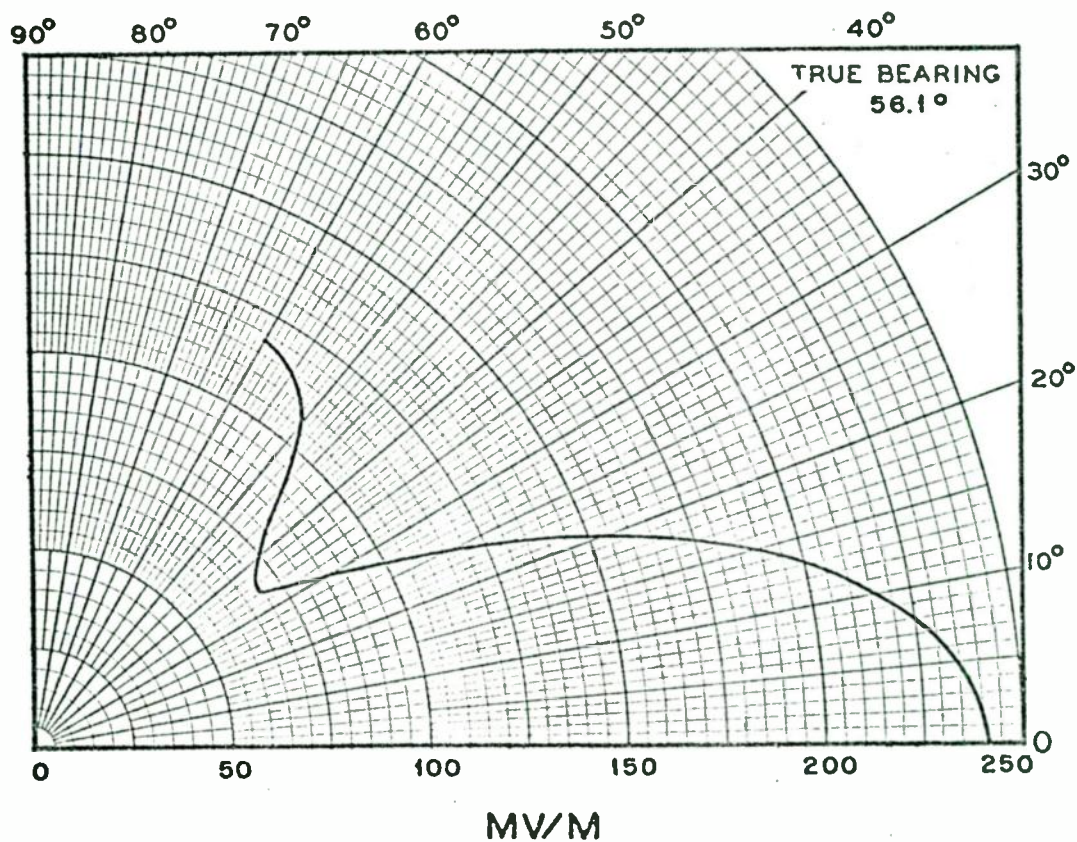
FROM WFBC TOWARD WBTM POINT NO.1

FIGURE 6-NNN

VERTICAL PLANE PATTERNS



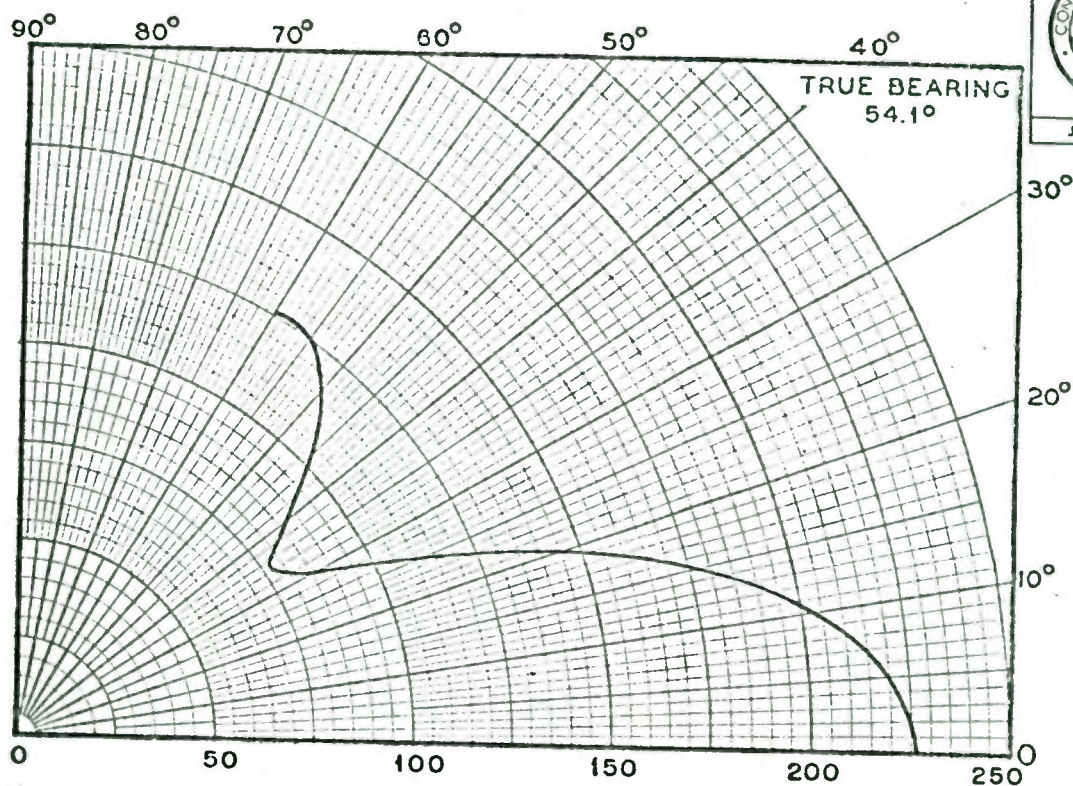
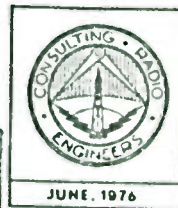
FROM WFBC TOWARD WBTM POINT NO. 2



FROM WFBC TOWARD WBTM POINT NO. 3

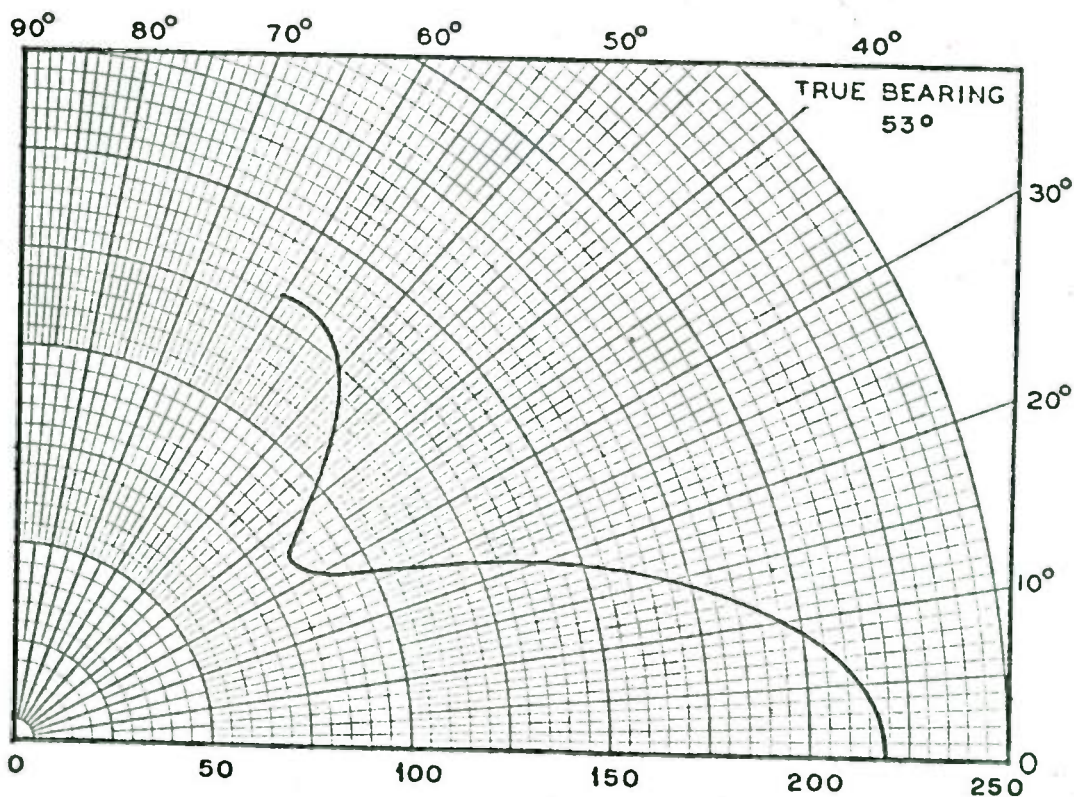
FIGURE 6-000

VERTICAL PLANE PATTERNS



FROM WFBC TOWARD WBTM POINT NO. 4

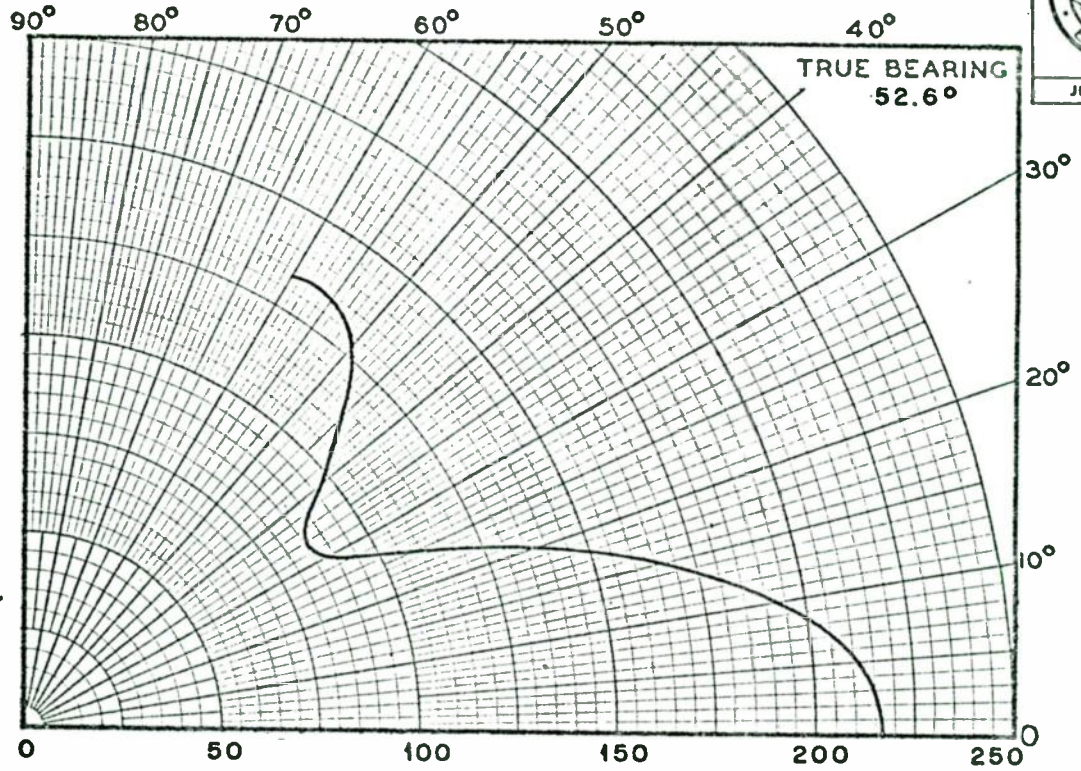
AC



FROM WFBC TOWARD WBTM POINT NO. 5

FIGURE 6-PPP

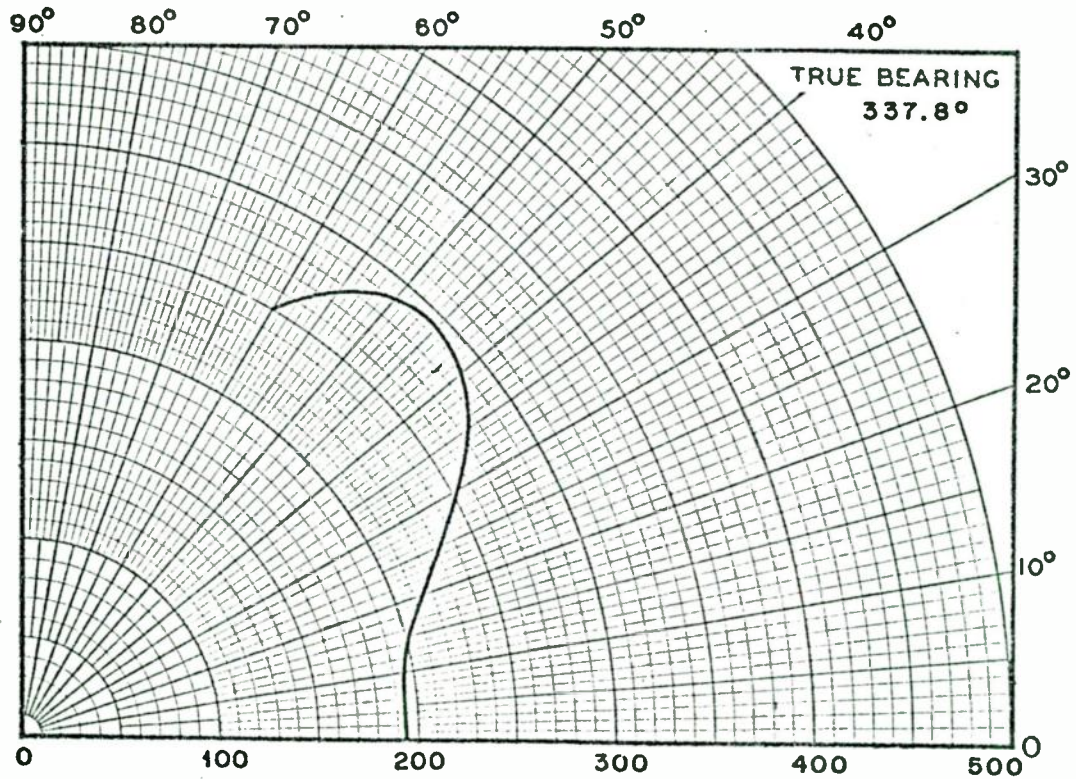
VERTICAL PLANE PATTERNS



MV/M

FROM WFBC TOWARD WETM POINT NO. 6

AC

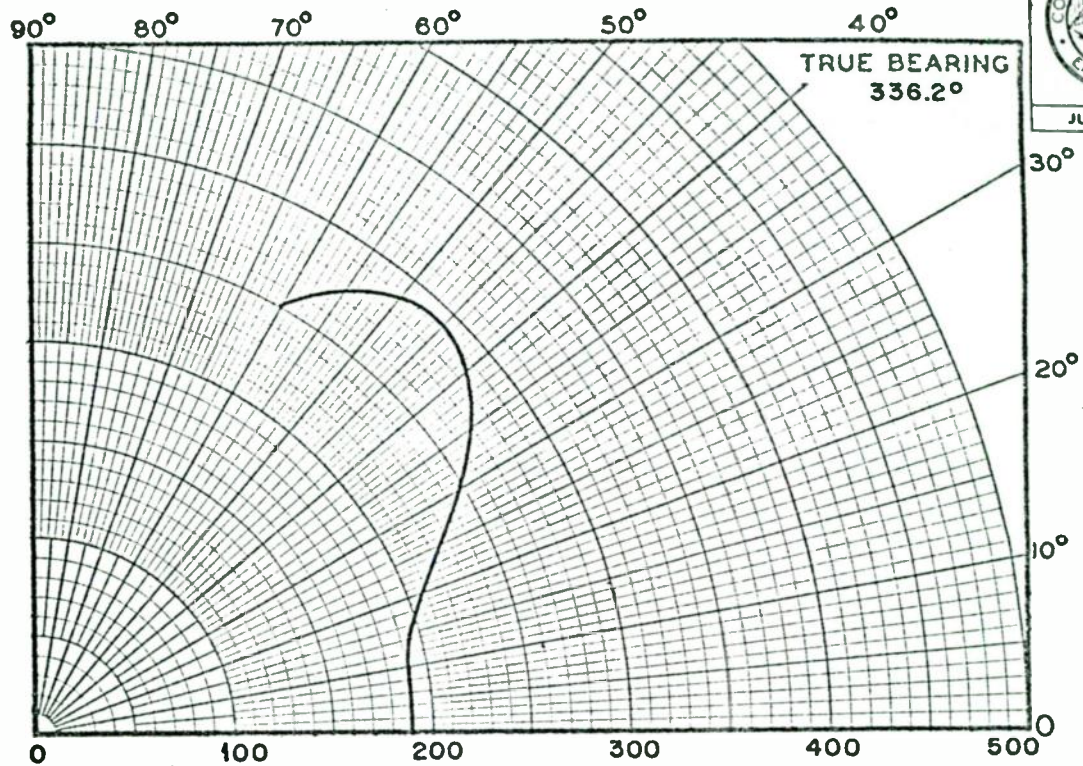
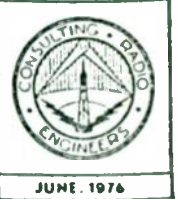


MV/M

FROM WFBC TOWARD WHBL POINT NO. 1

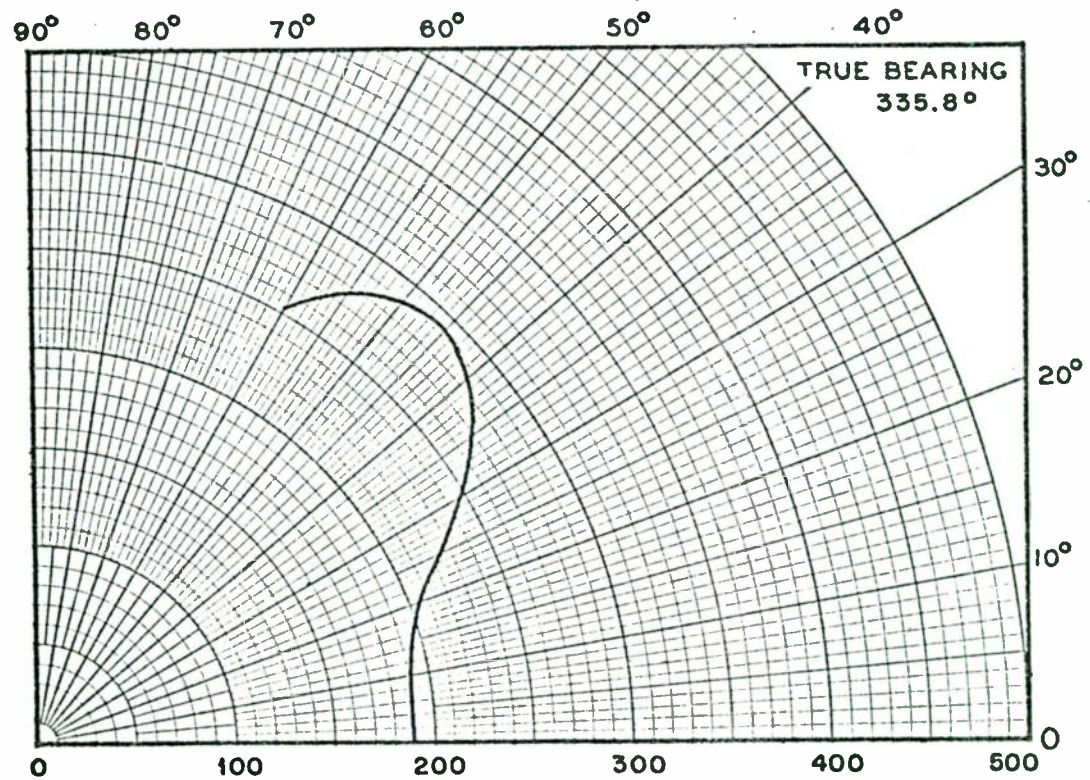
FIGURE 6-QQQ

VERTICAL PLANE PATTERNS



MV/M

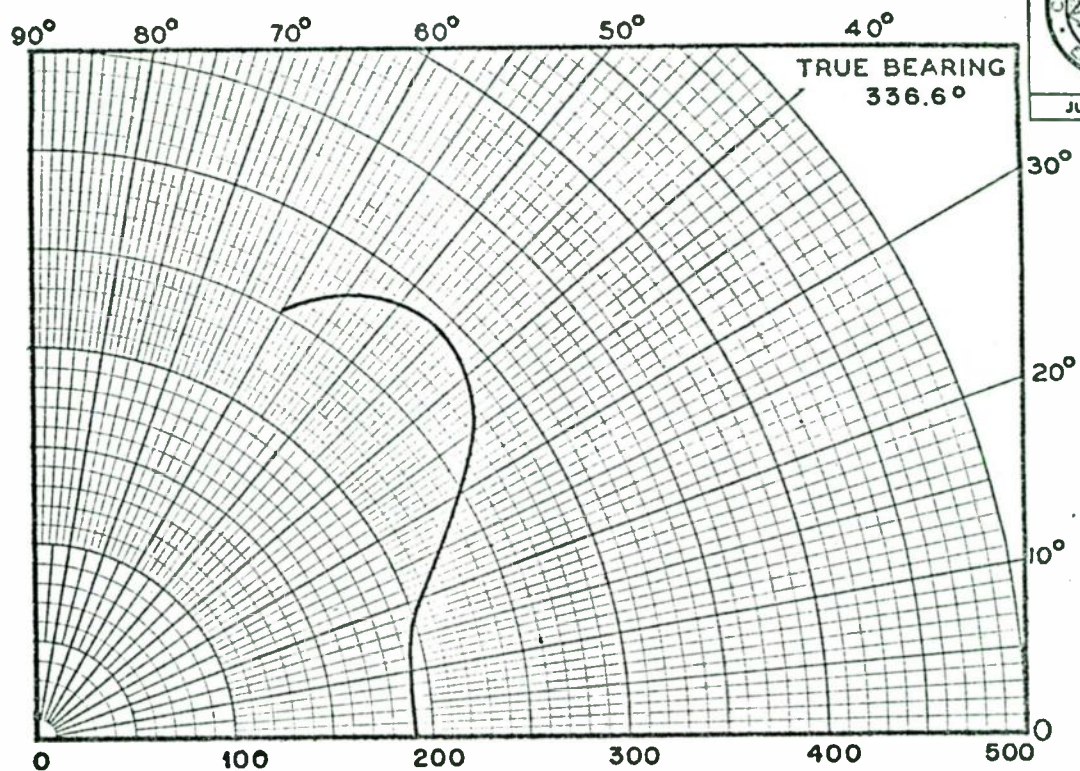
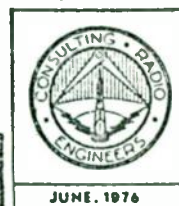
FROM WFBC TOWARD WHBL POINT NO. 2



MV/M

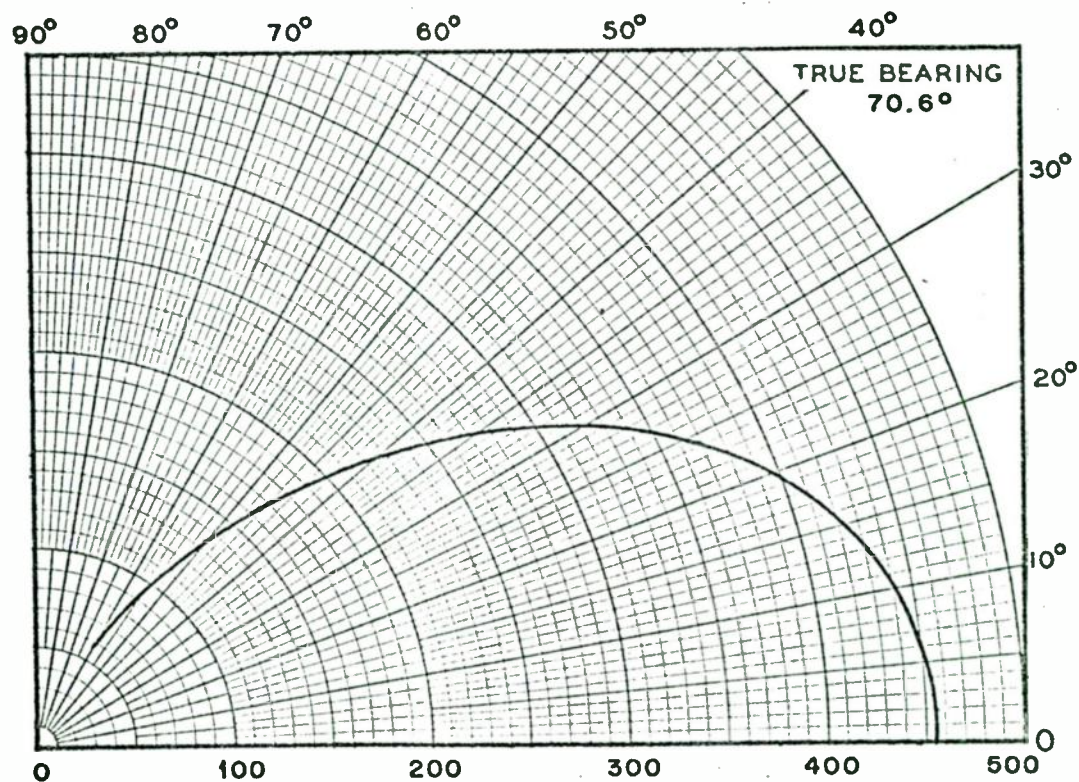
FROM WFBC TOWARD WHBL POINT NO. 3

VERTICAL PLANE PATTERNS



MV/M

FROM WFBC TOWARD WHBL POINT NO. 4

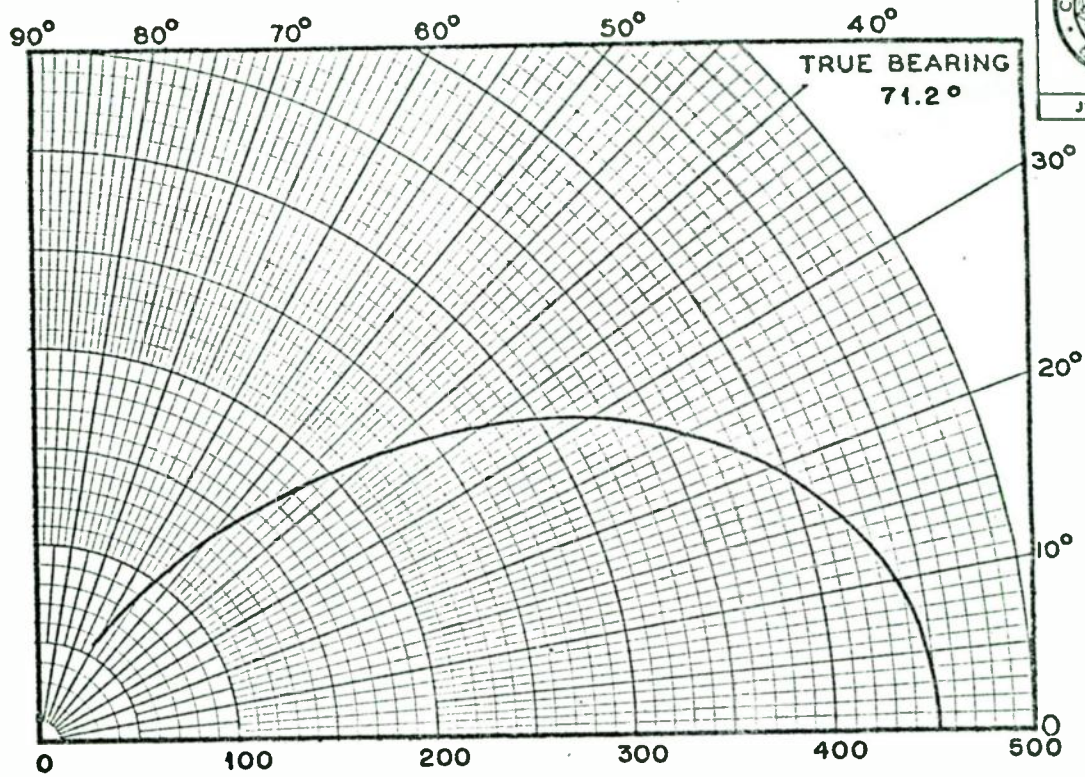


MV/M

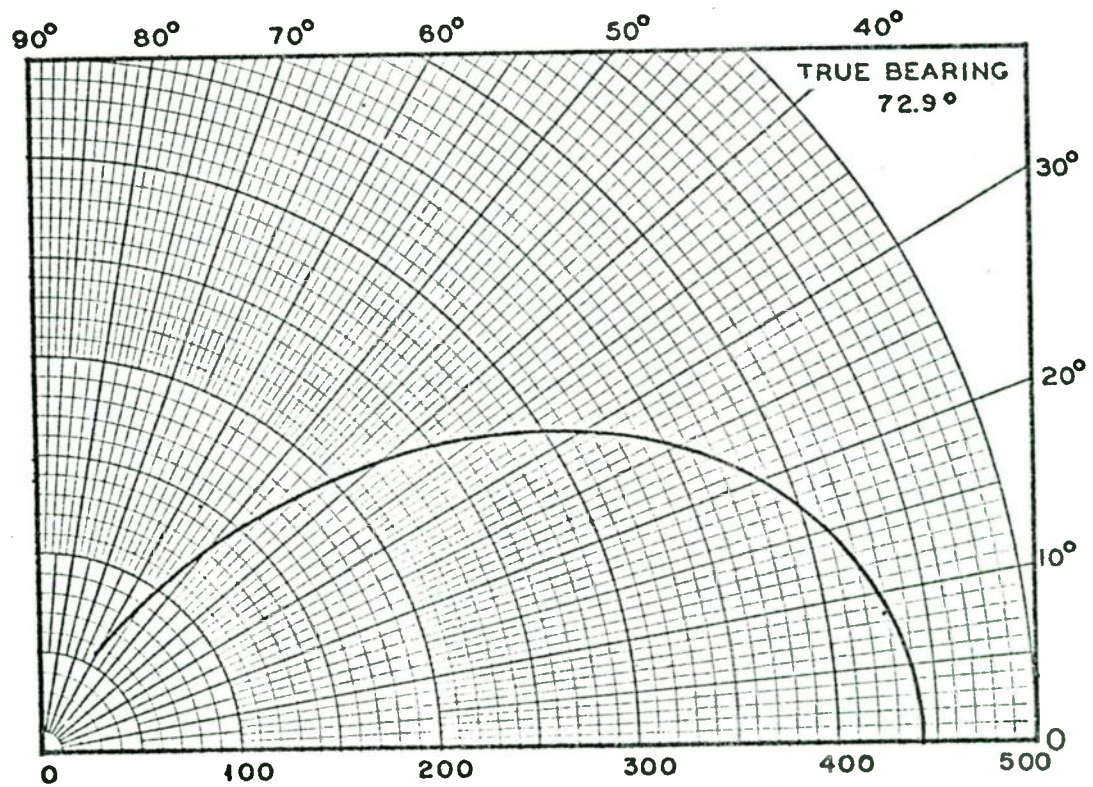
FROM KFAC TOWARD KFH POINT NO. 1

FIGURE 6-SSS

VERTICAL PLANE PATTERNS

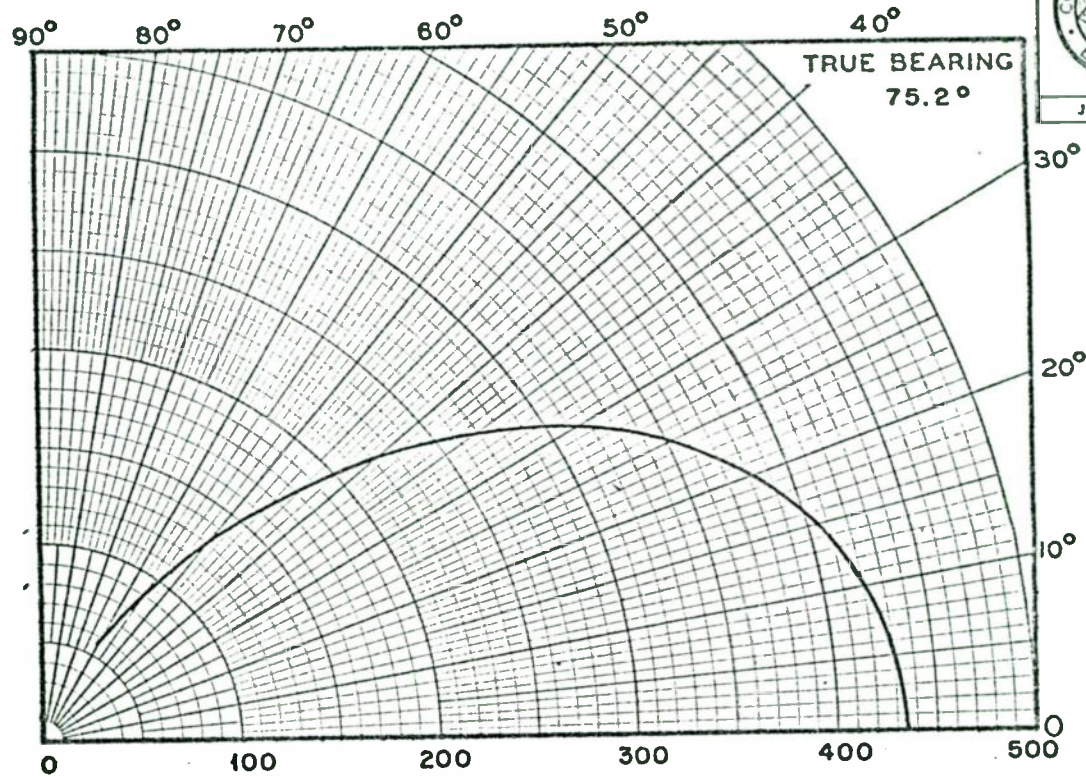


FROM KFAC TOWARD KFH POINT NO. 2



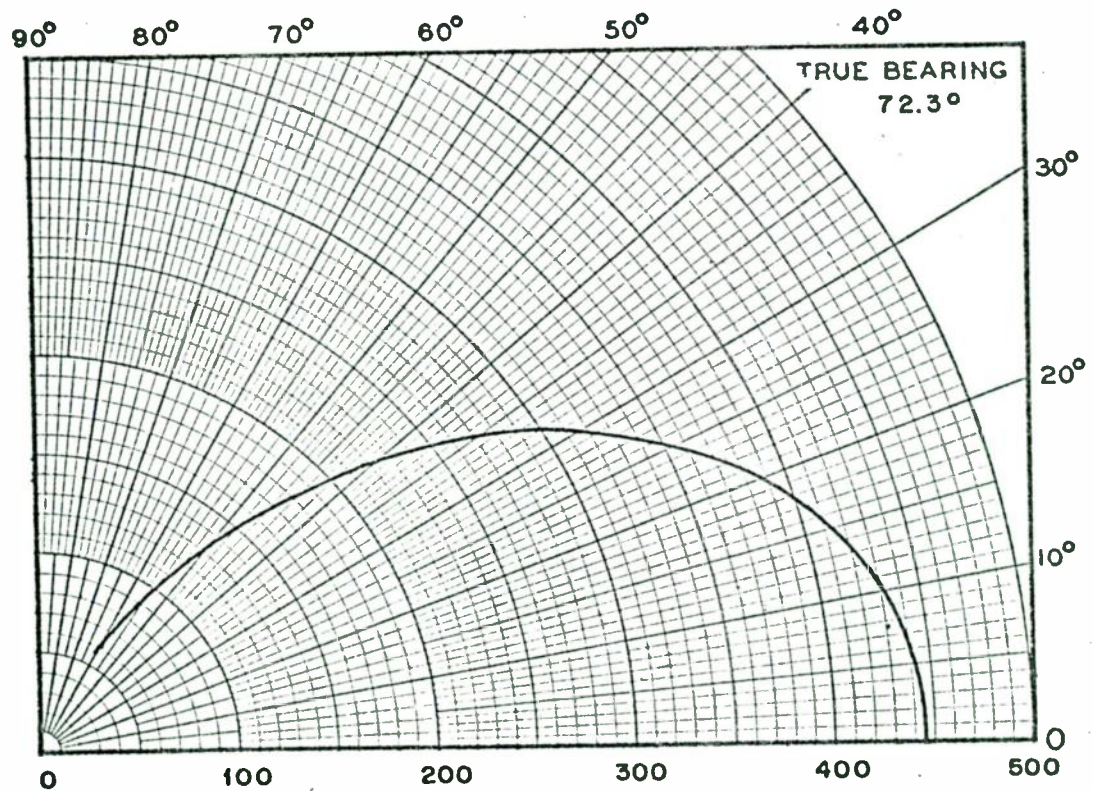
FROM KFAC TOWARD KFH POINT NO. 3

VERTICAL PLANE PATTERNS



MV/M

FROM KFAC TOWARD KFH POINT NO. 4

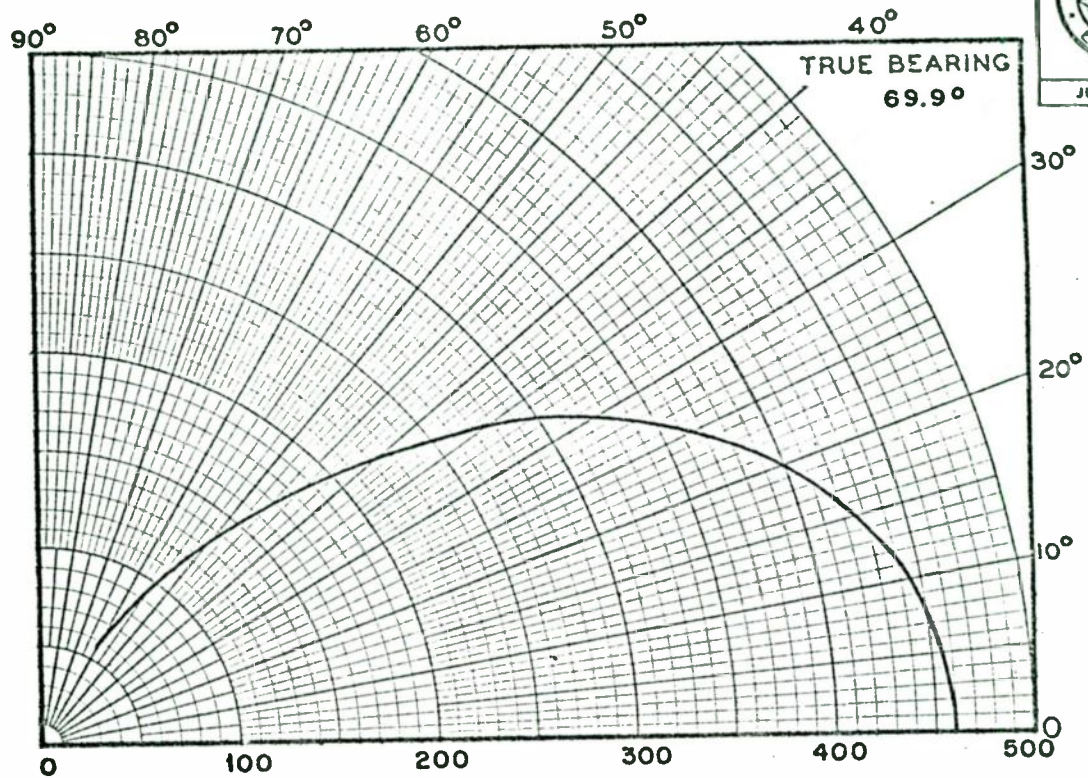


MV/M

FROM KFAC TOWARD KFH POINT NO. 5

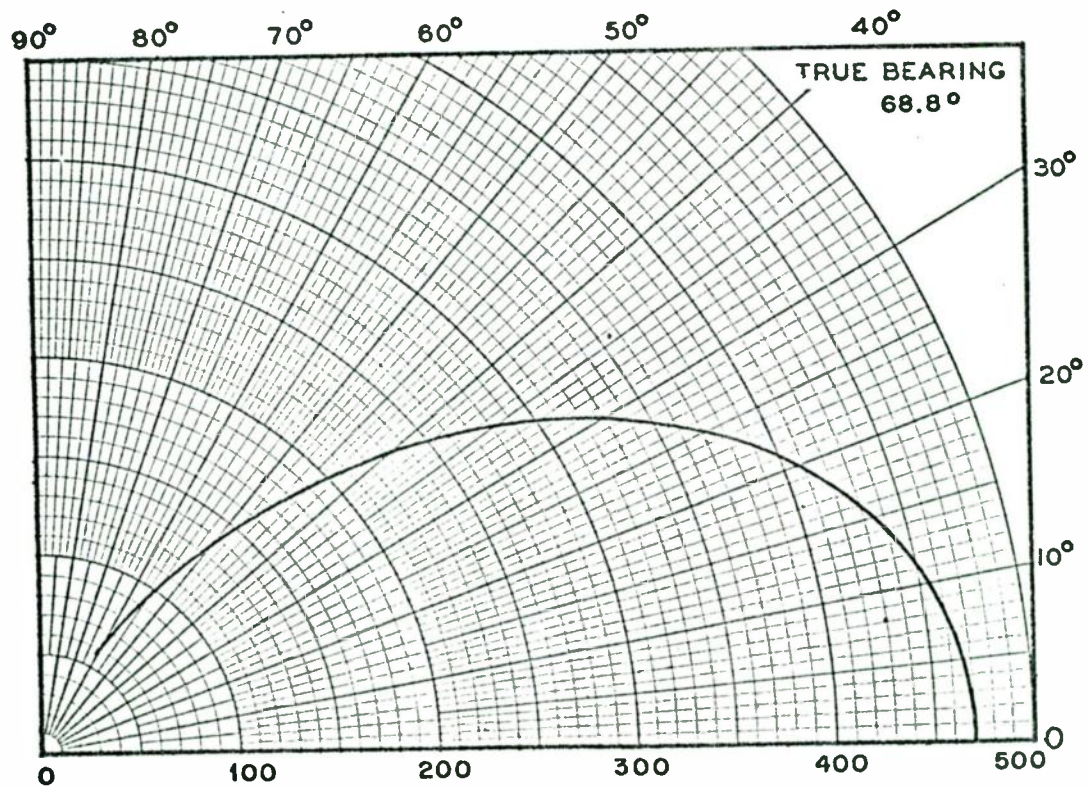
FIGURE 6-UUU

VERTICAL PLANE PATTERNS



MV/M

FROM KFAC TOWARD KFH POINT NO. 6

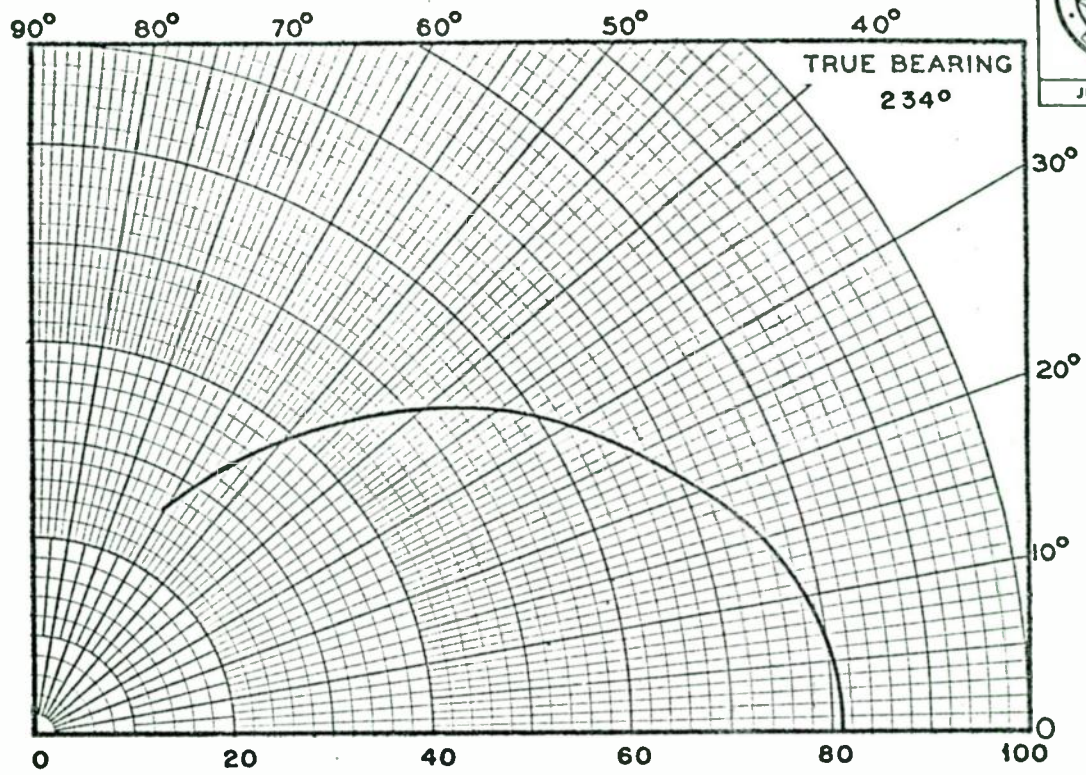


MV/M

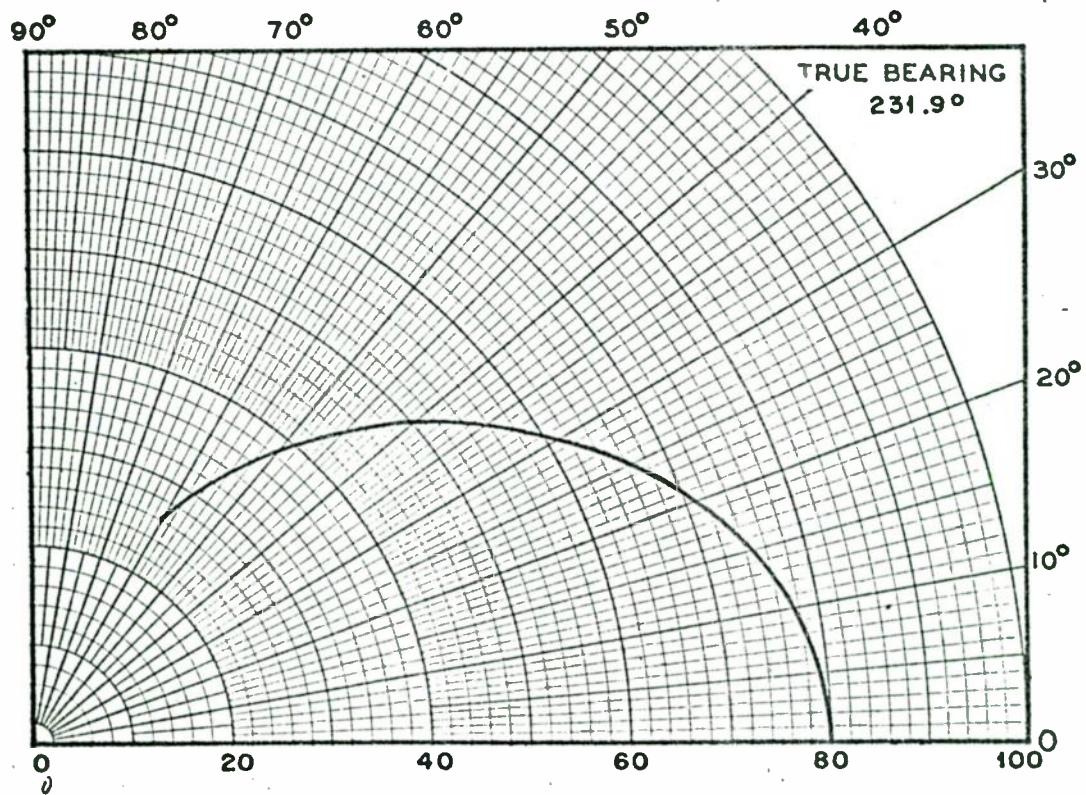
FROM KFAC TOWARD KFH POINT NO. 7

FIGURE 6-VVV

VERTICAL PLANE PATTERNS

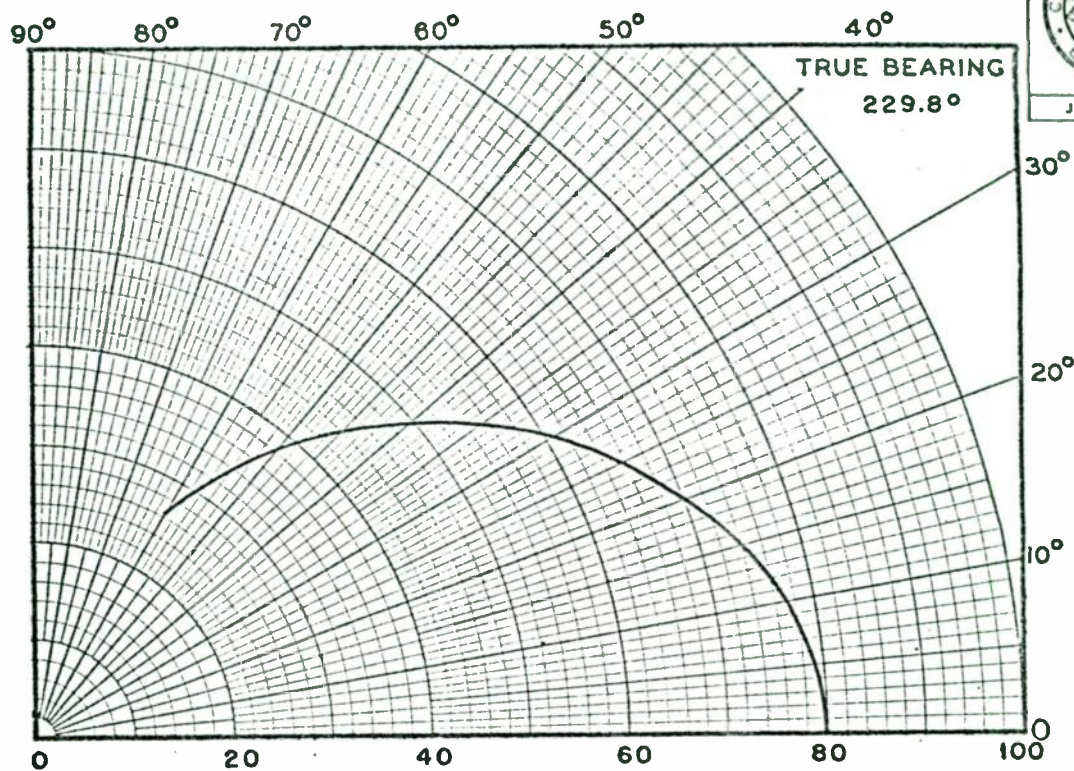


FROM WHBL TOWARD KFH POINT NO. 1



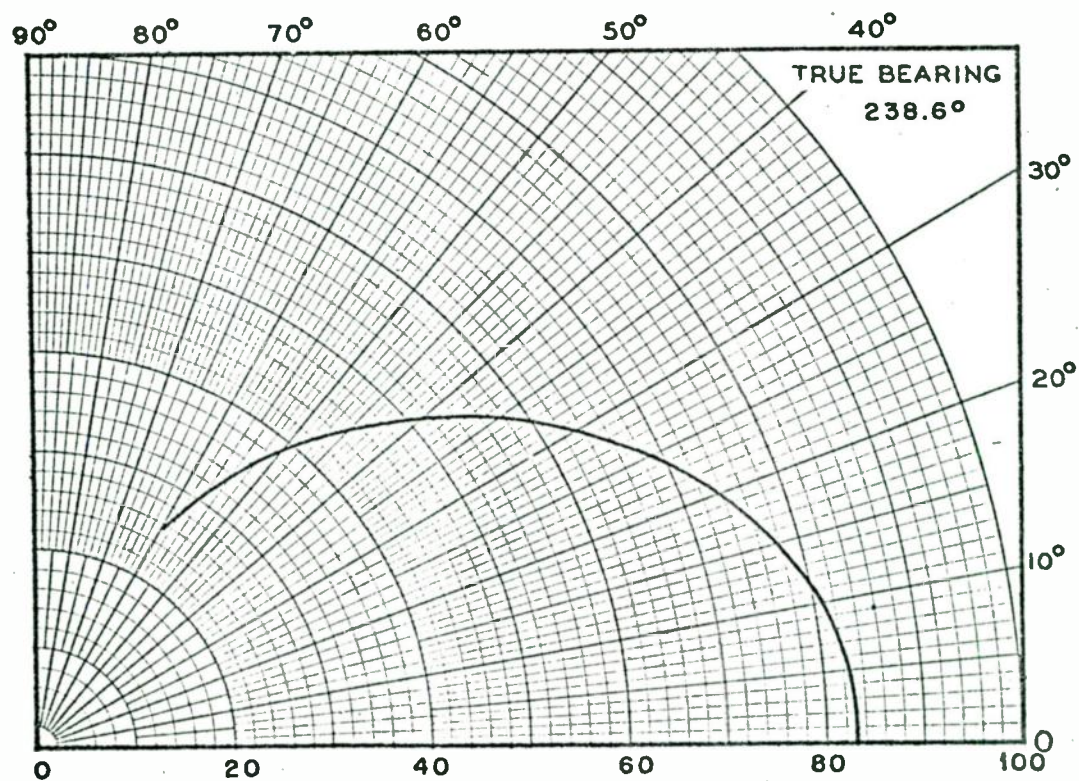
FROM WHBL TOWARD KFH POINT NO. 2

VERTICAL PLANE PATTERNS



MV/M

FROM WHBL TOWARD KFH POINT NO. 3

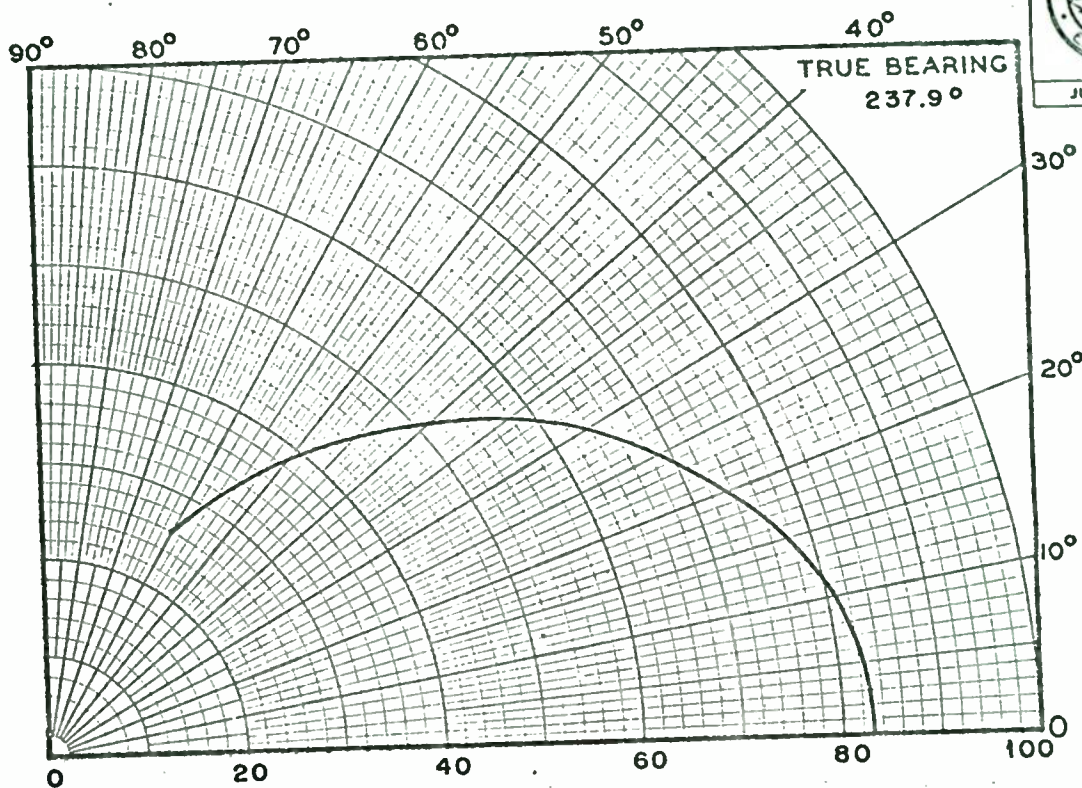
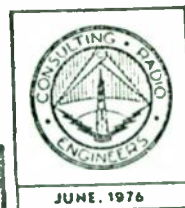


MV/M

FROM WHBL TOWARD KFH POINT NO. 6

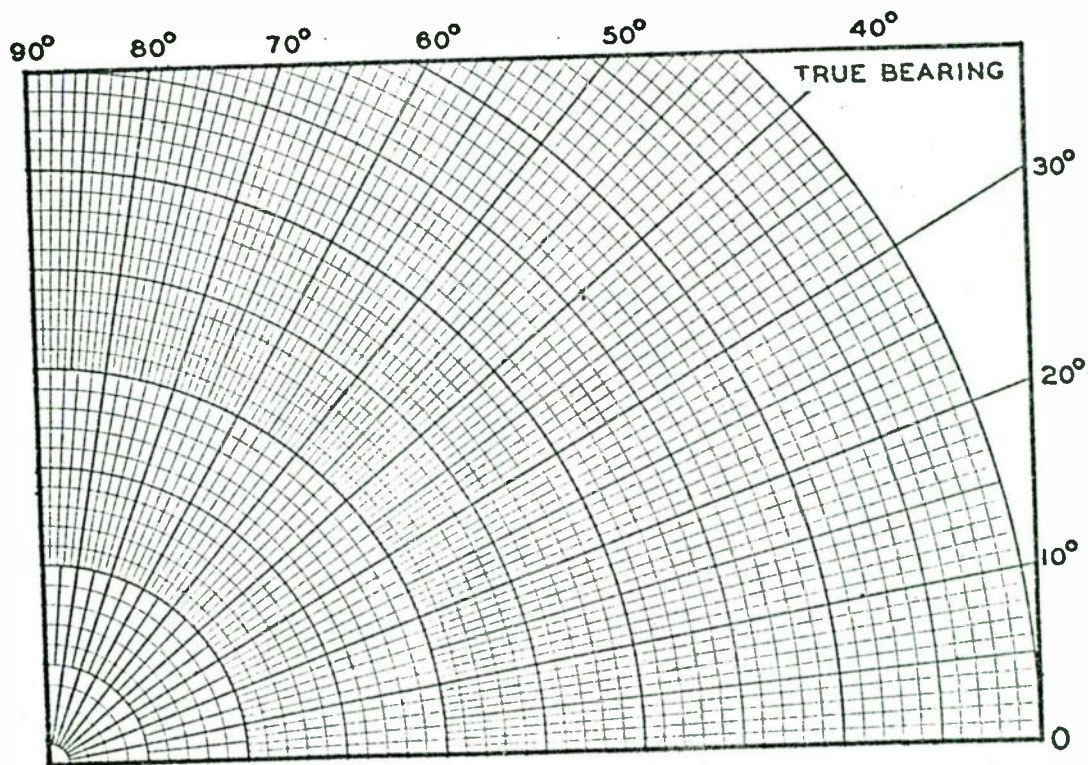
FIGURE 6-XXX

VERTICAL PLANE PATTERNS



FROM WHBL TOWARD KFH POINT NO. 7

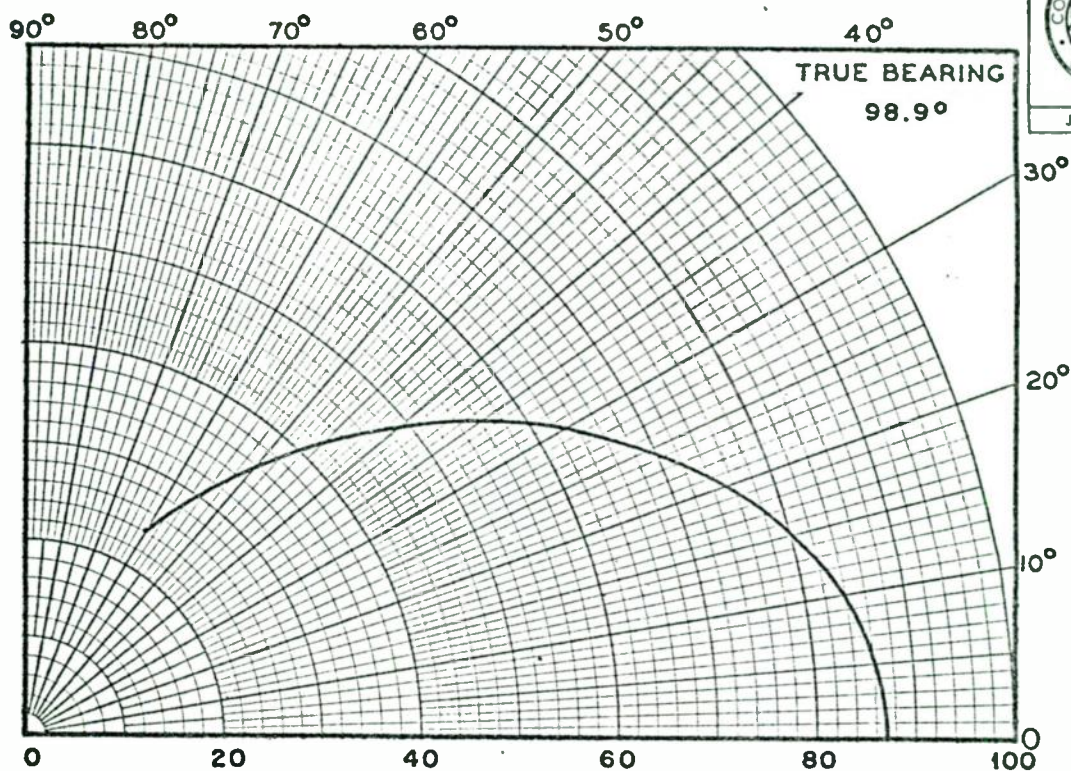
AC



MV/M

FIGURE 6-YYY

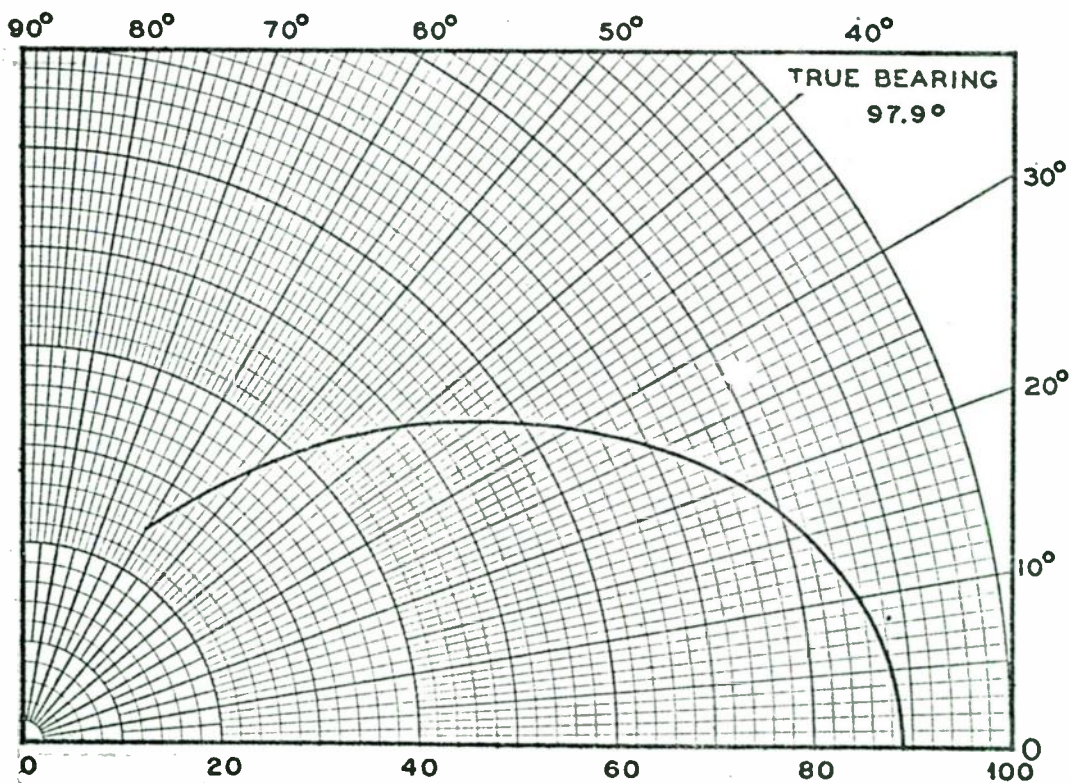
VERTICAL PLANE PATTERNS



MV/M

FROM WHBL TOWARD WTRX POINT NO. 1

AC

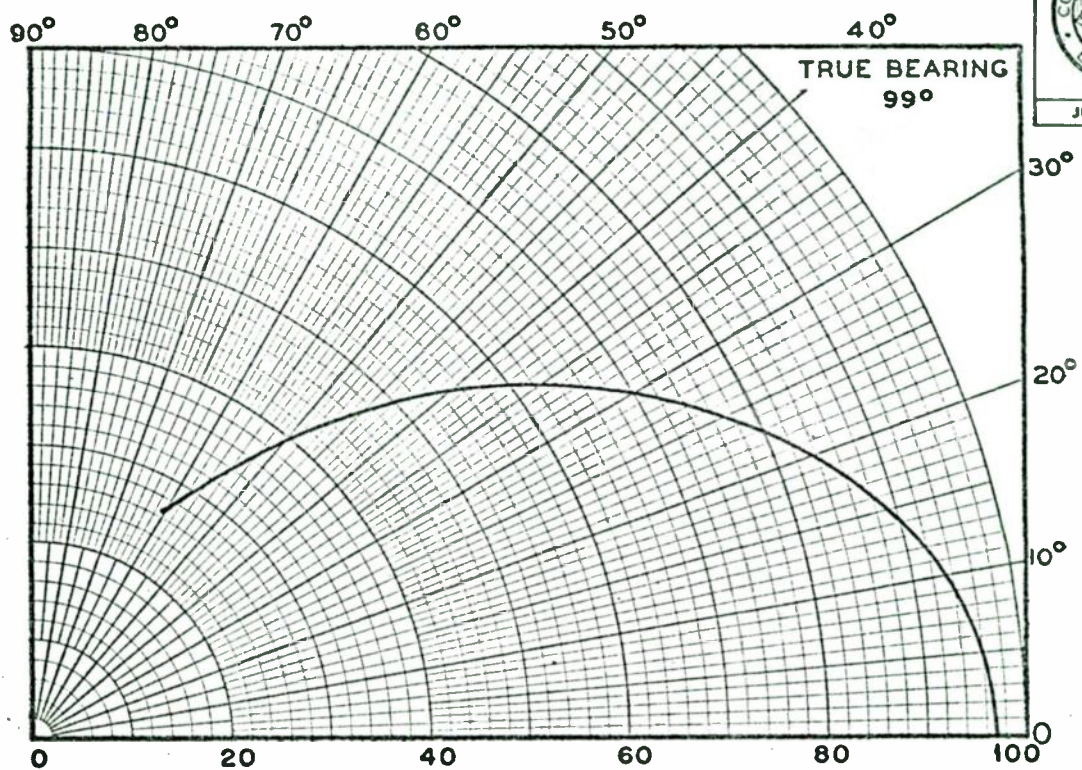
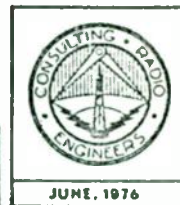


MV/M

FROM WHBL TOWARD WTRX POINT NO. 2

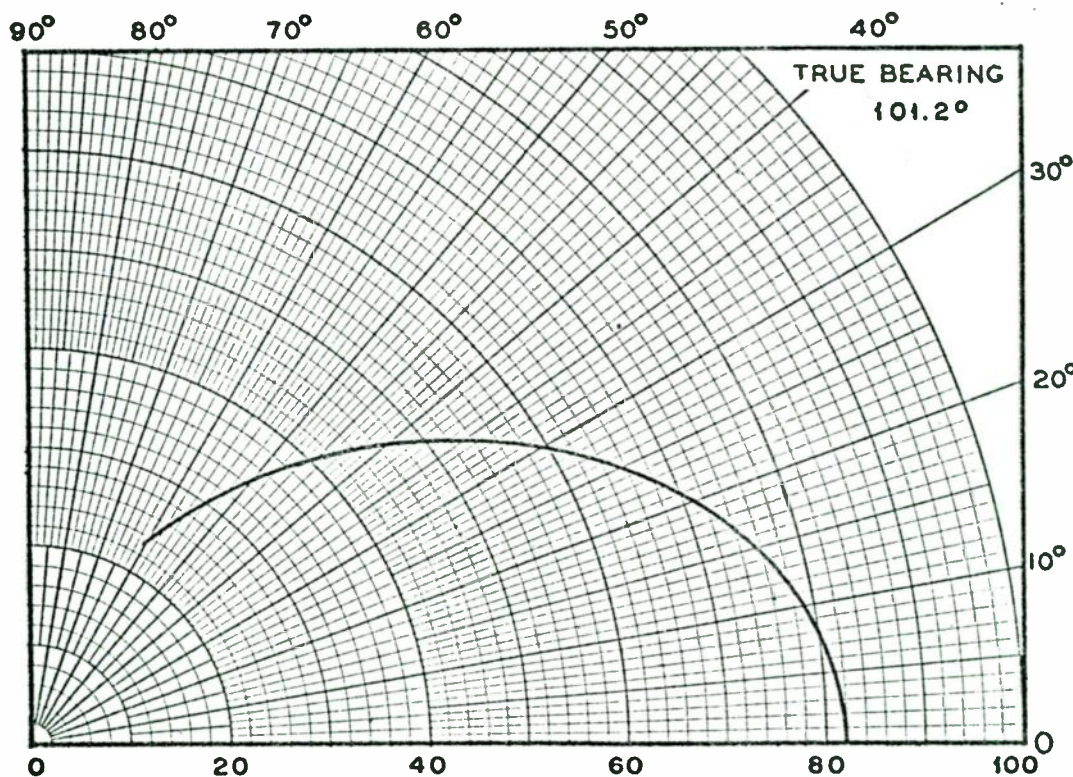
FIGURE 6-ZZZ

VERTICAL PLANE PATTERNS



MV/M

FROM WHBL TOWARD WTRX POINT NO. 3



MV/M

FROM WHBL TOWARD WTRX POINT NO. 8

FIGURE 6-AAAA

VERTICAL PLANE PATTERNS

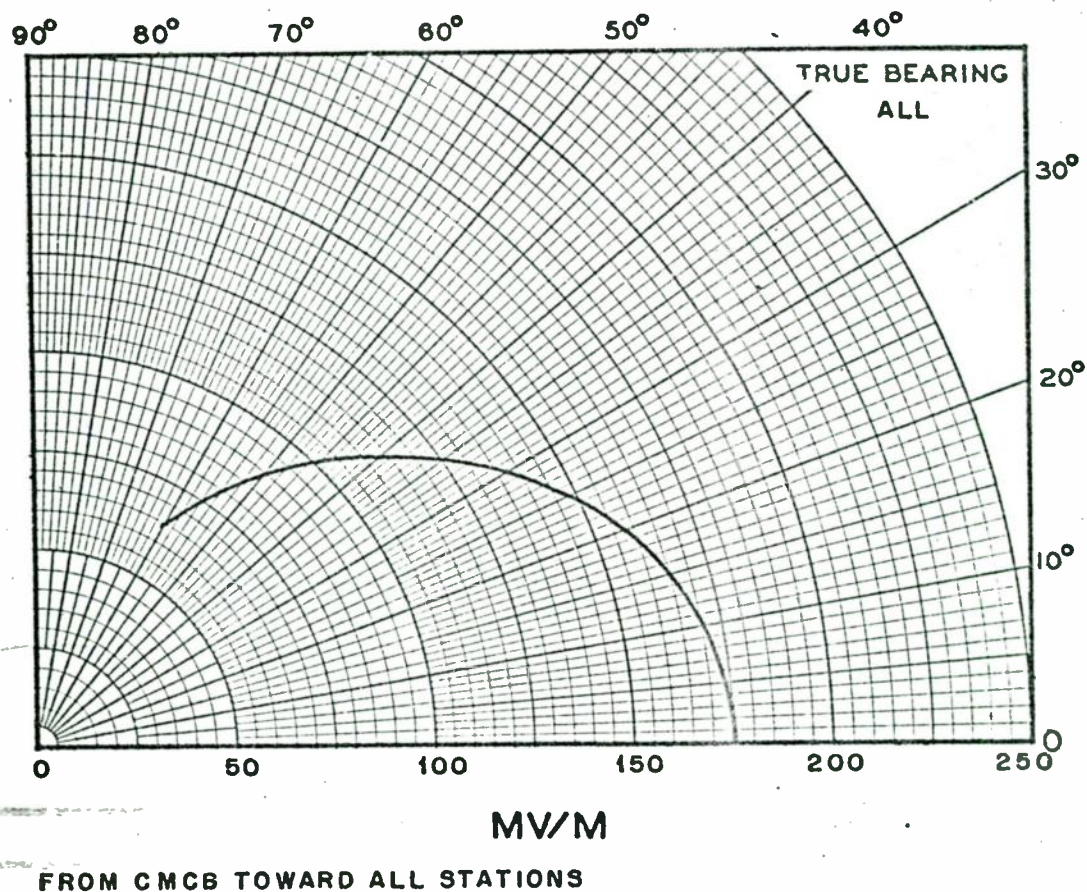
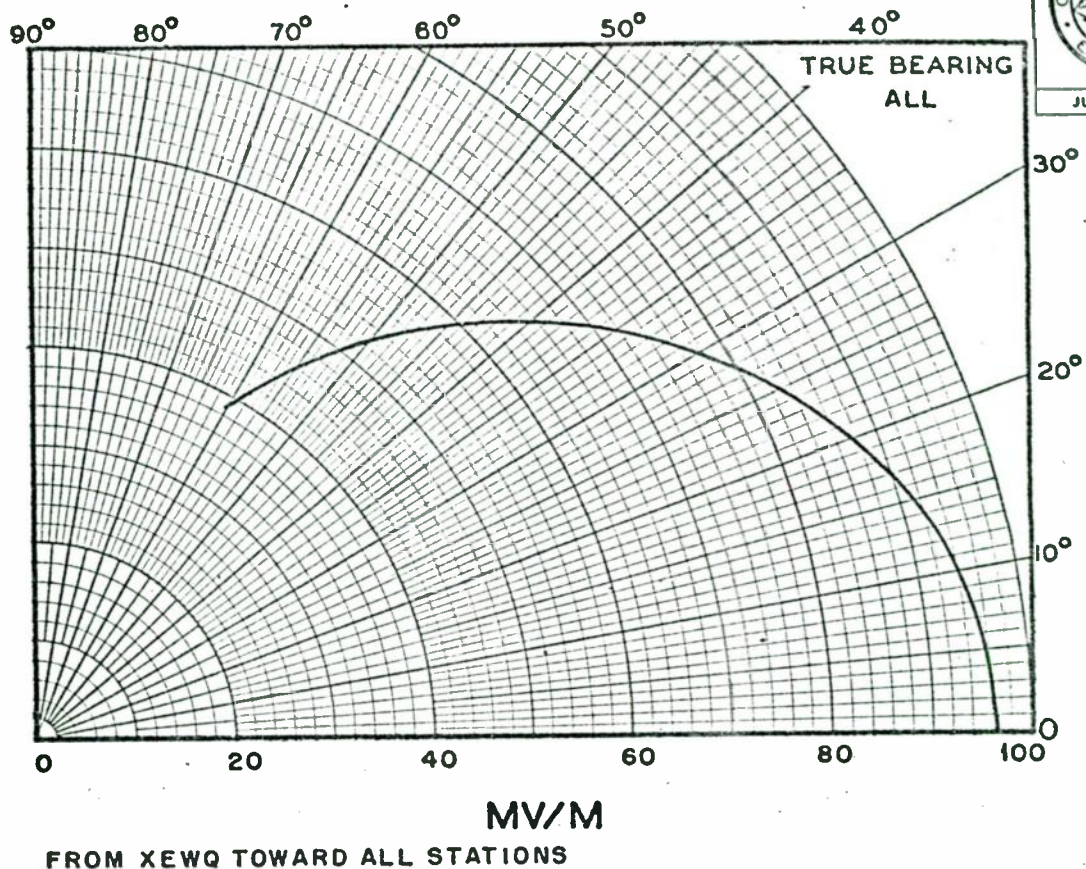
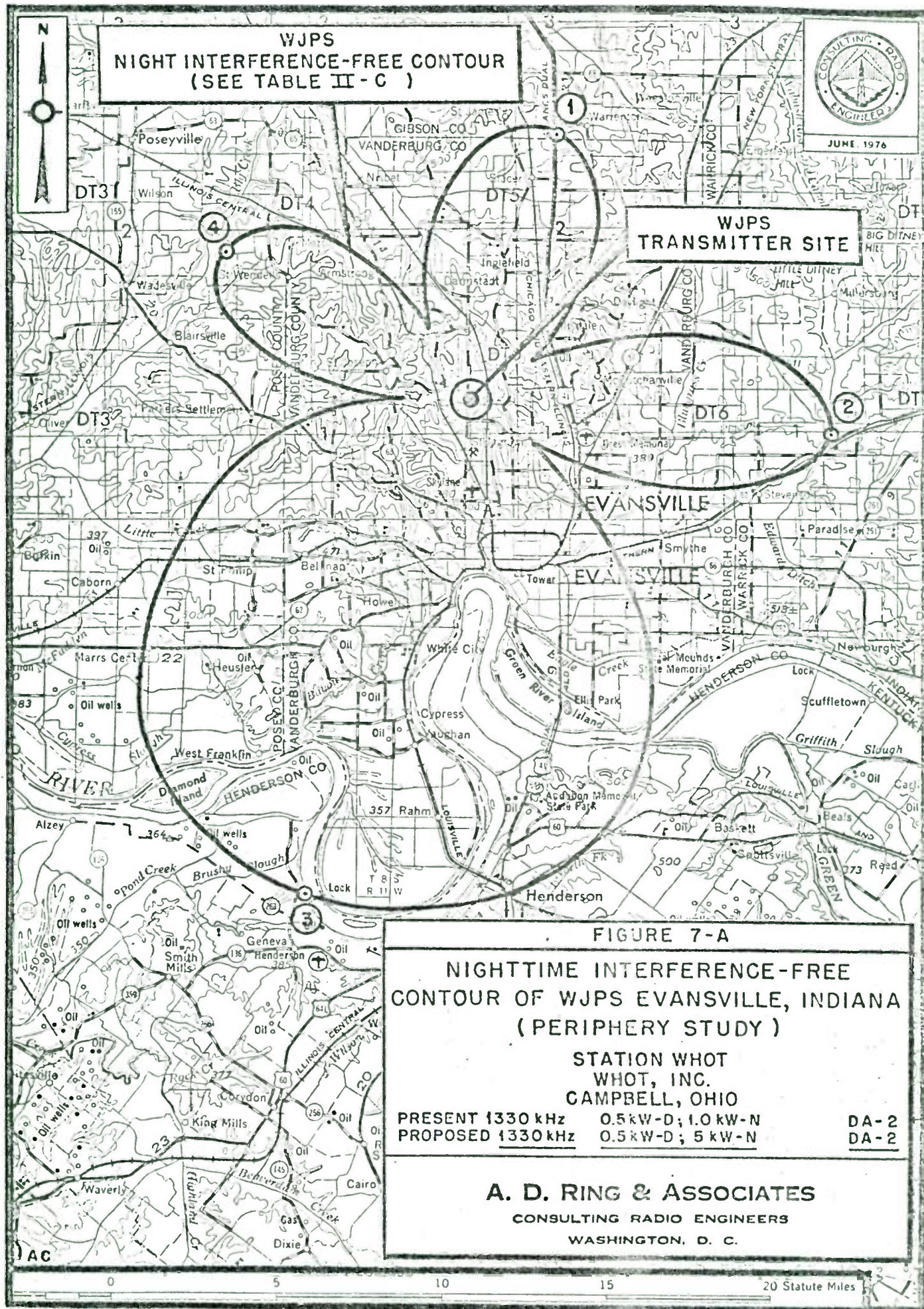
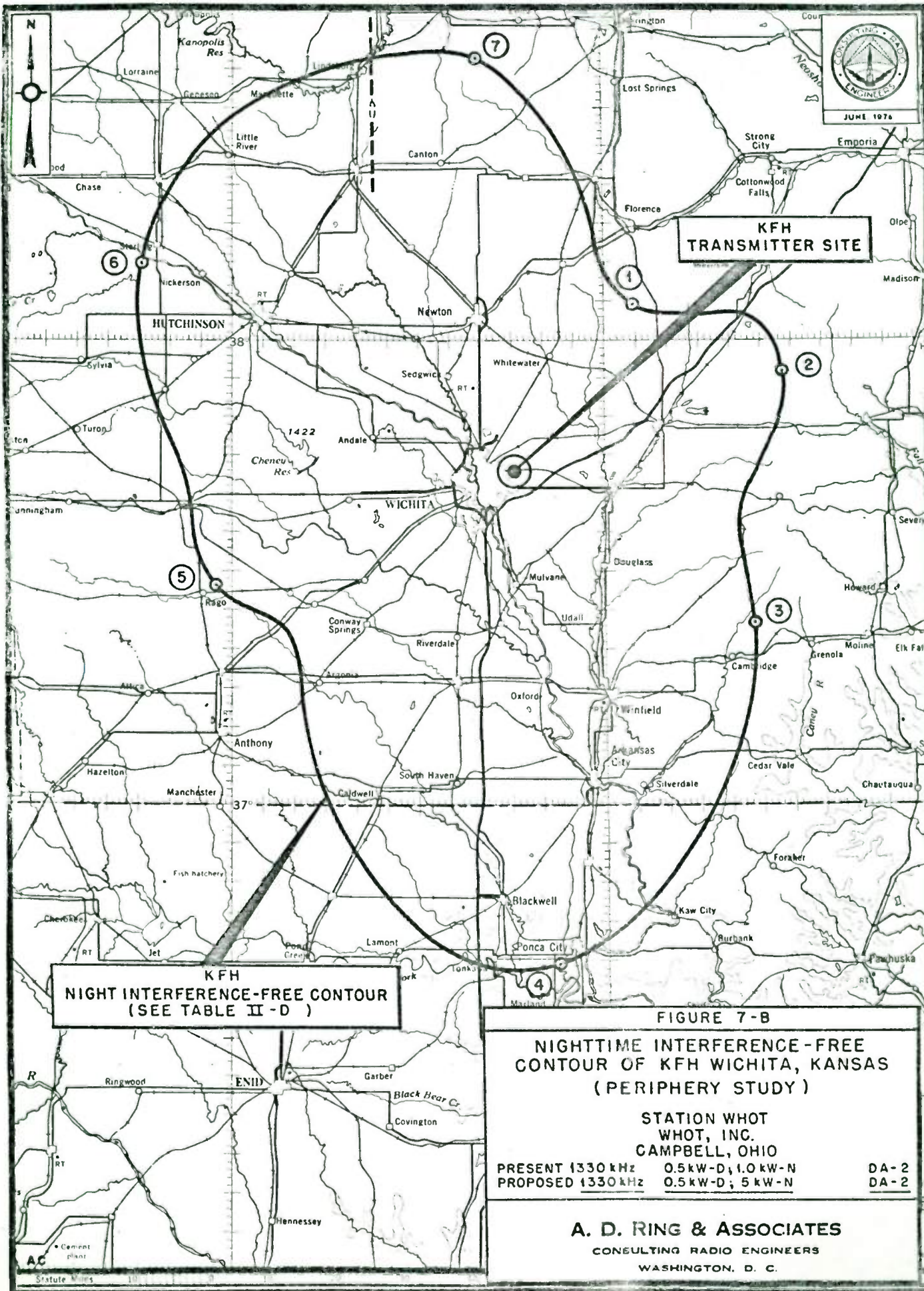
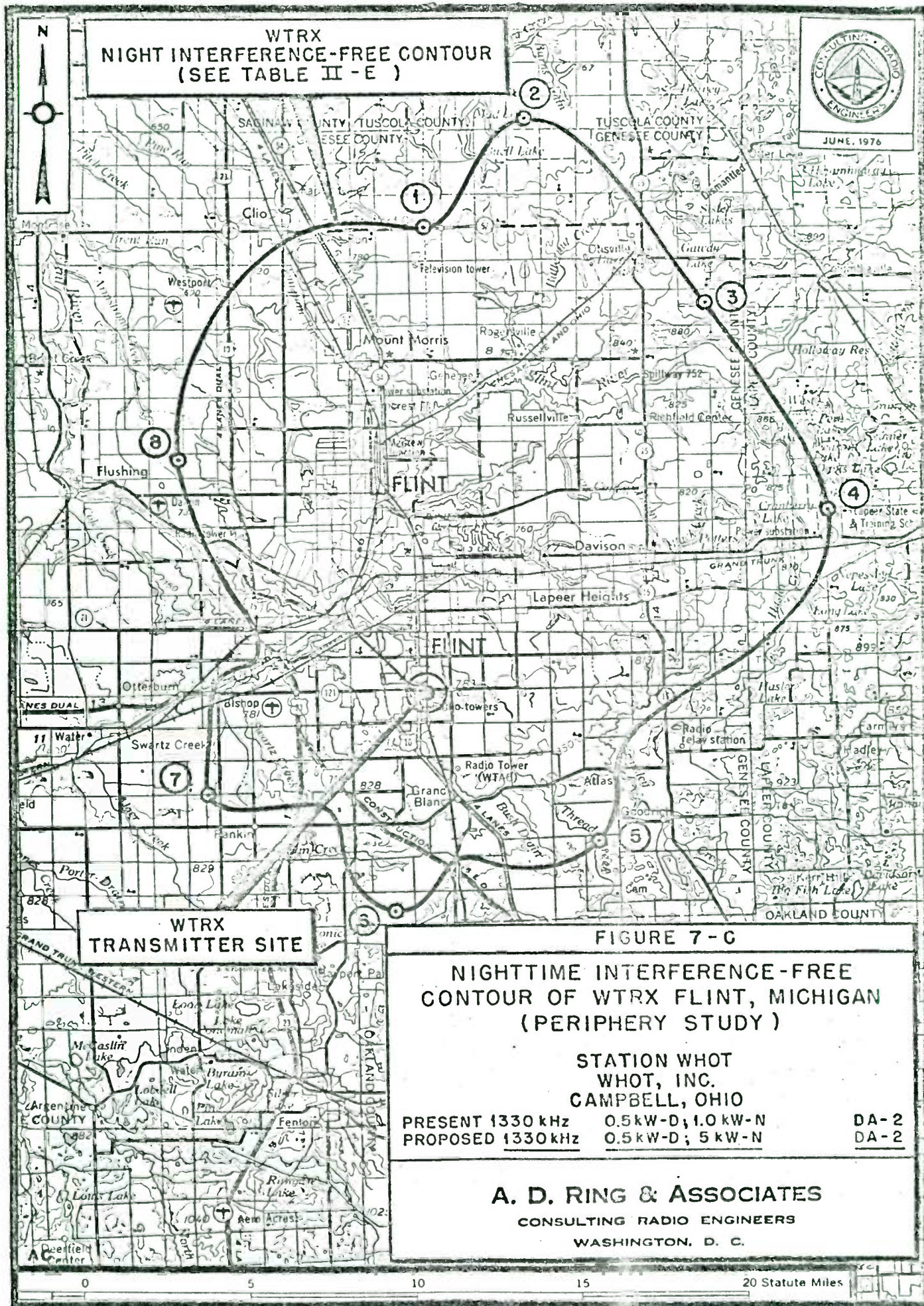
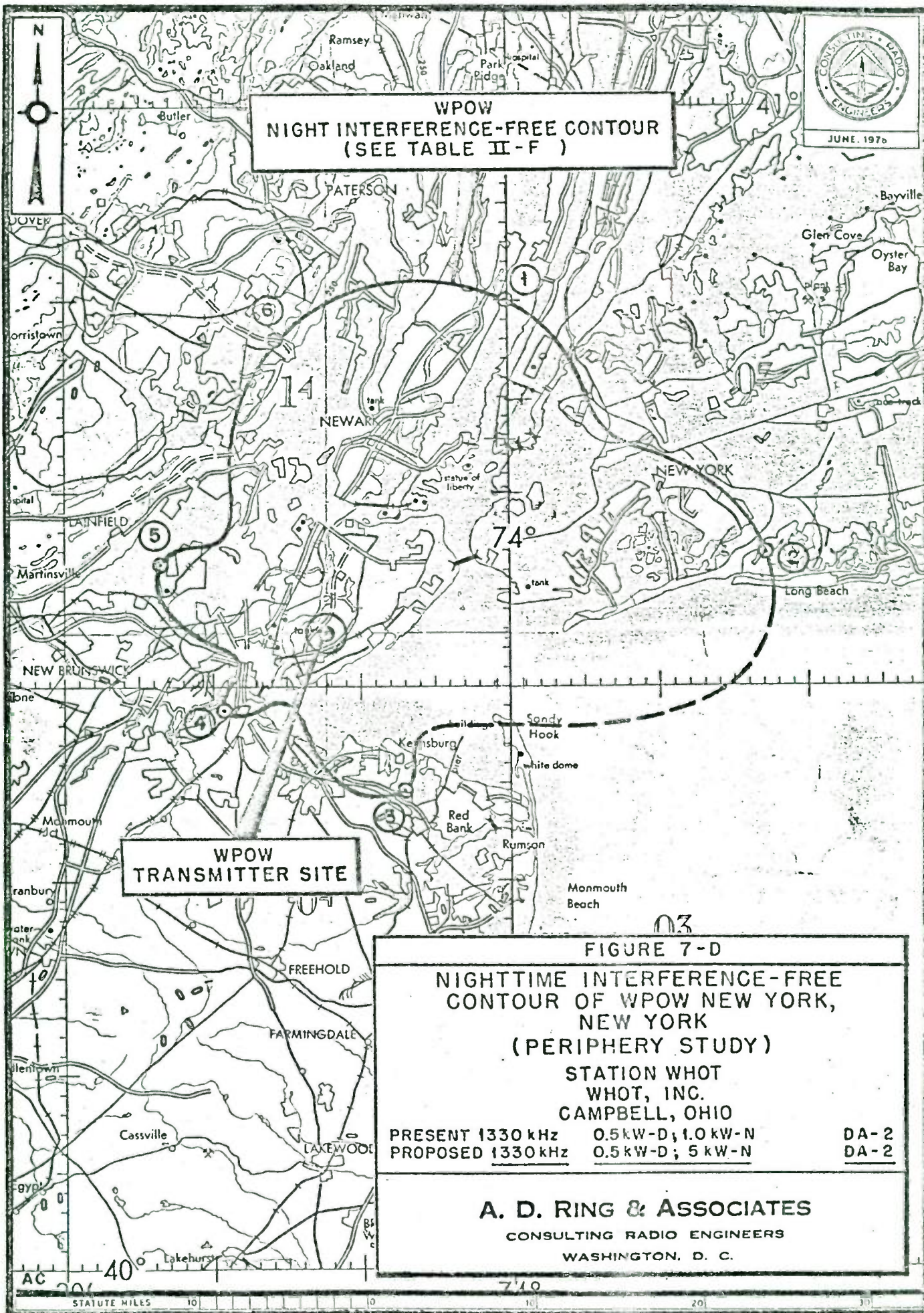


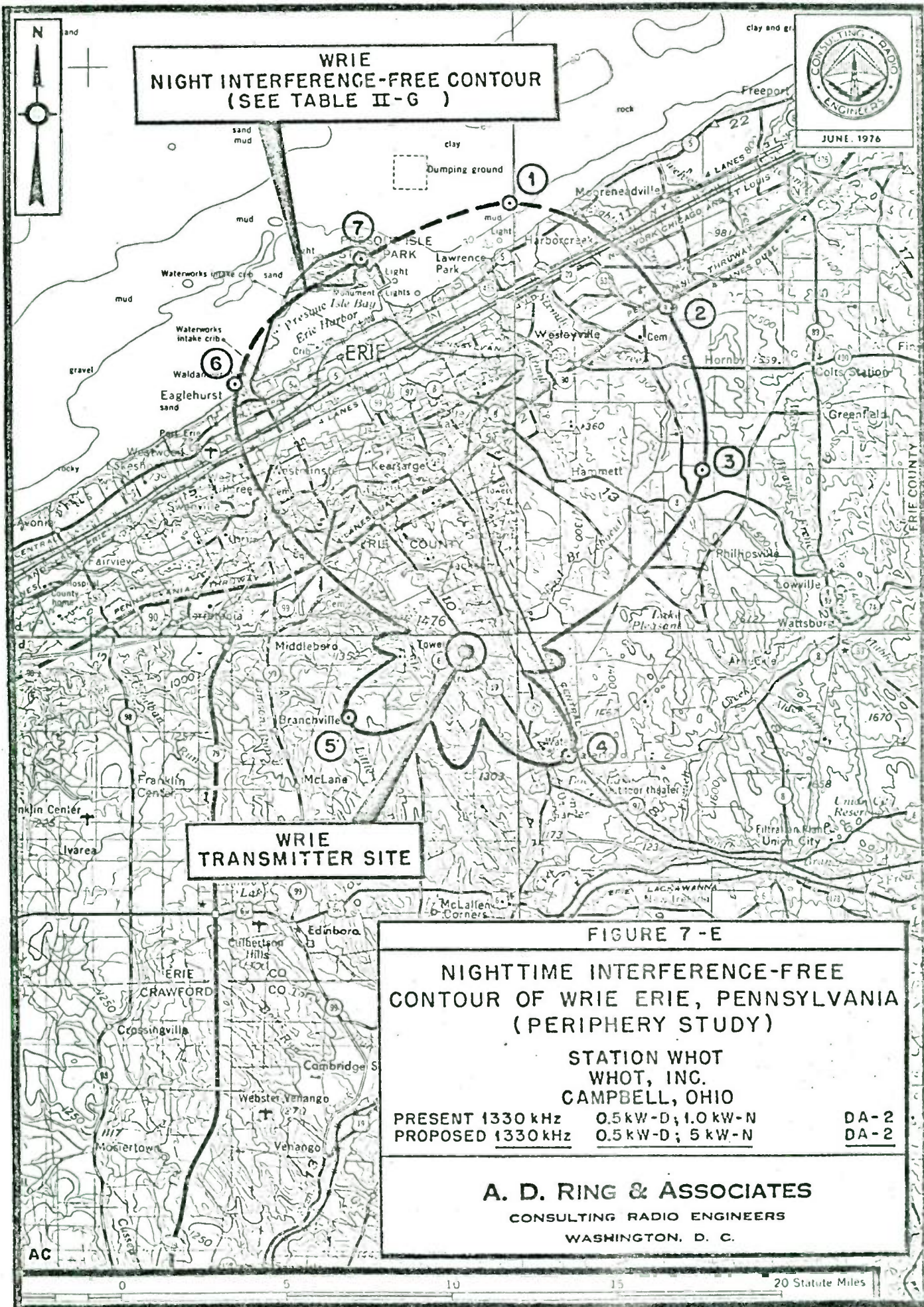
FIGURE 6-BBBB

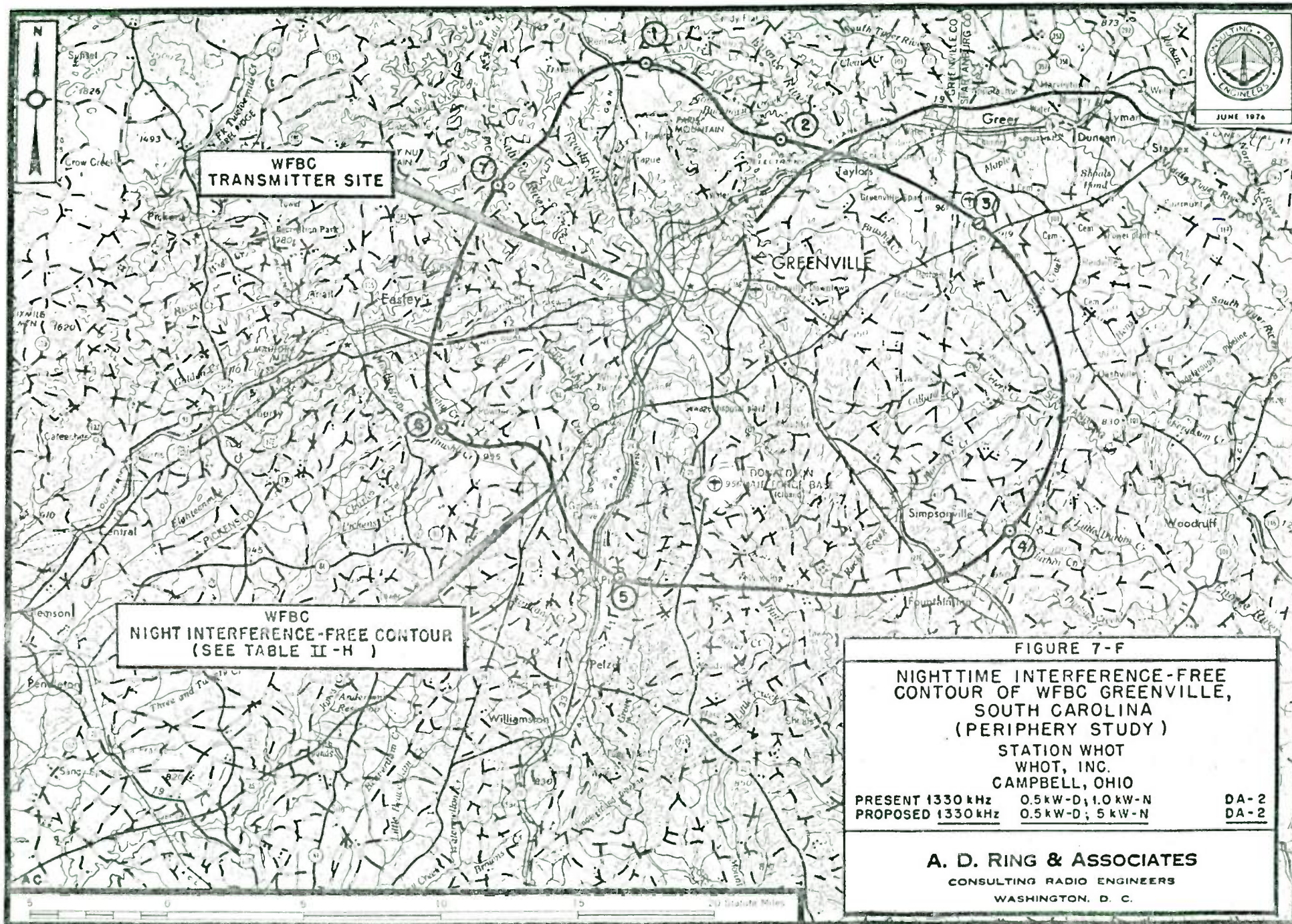


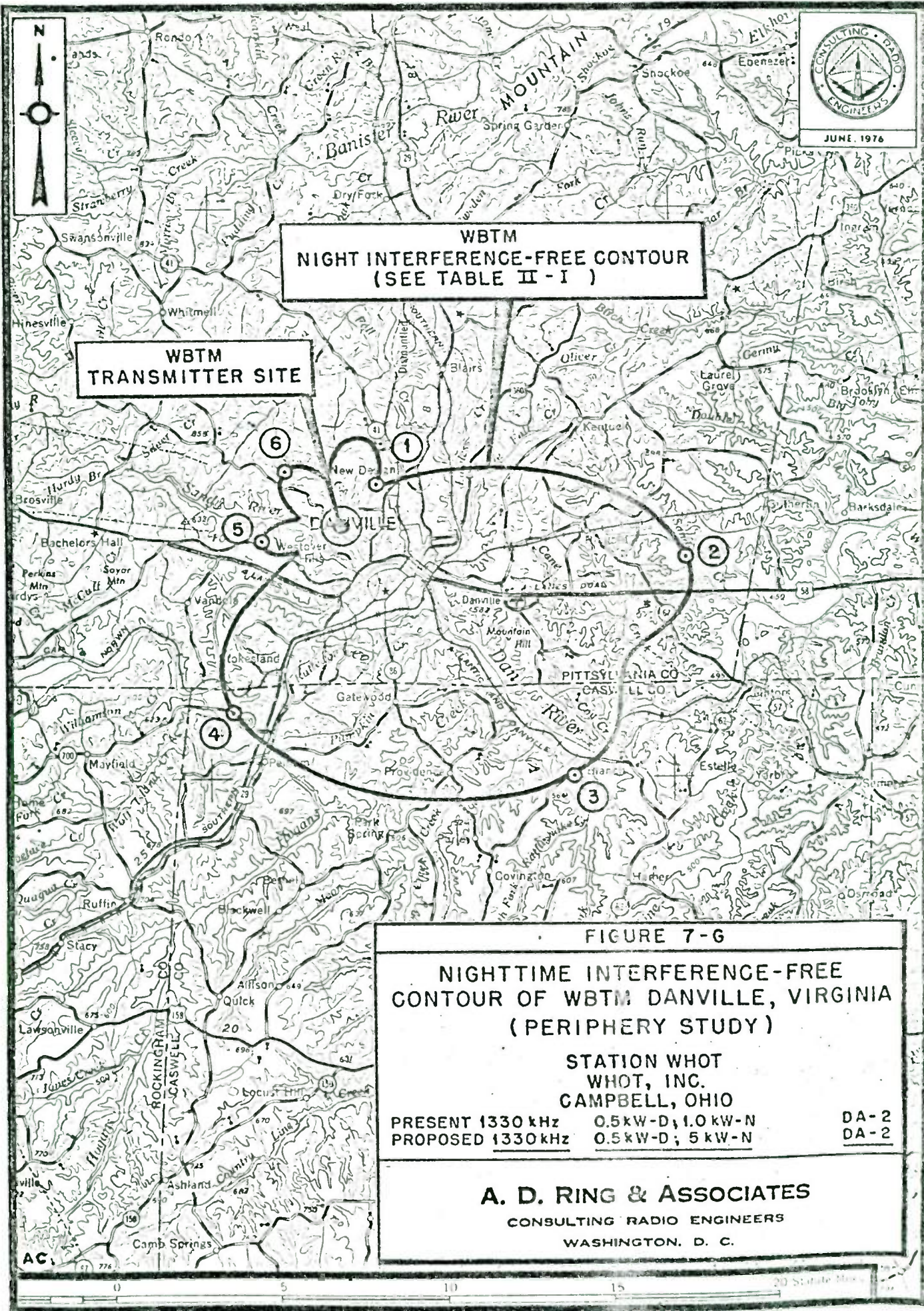


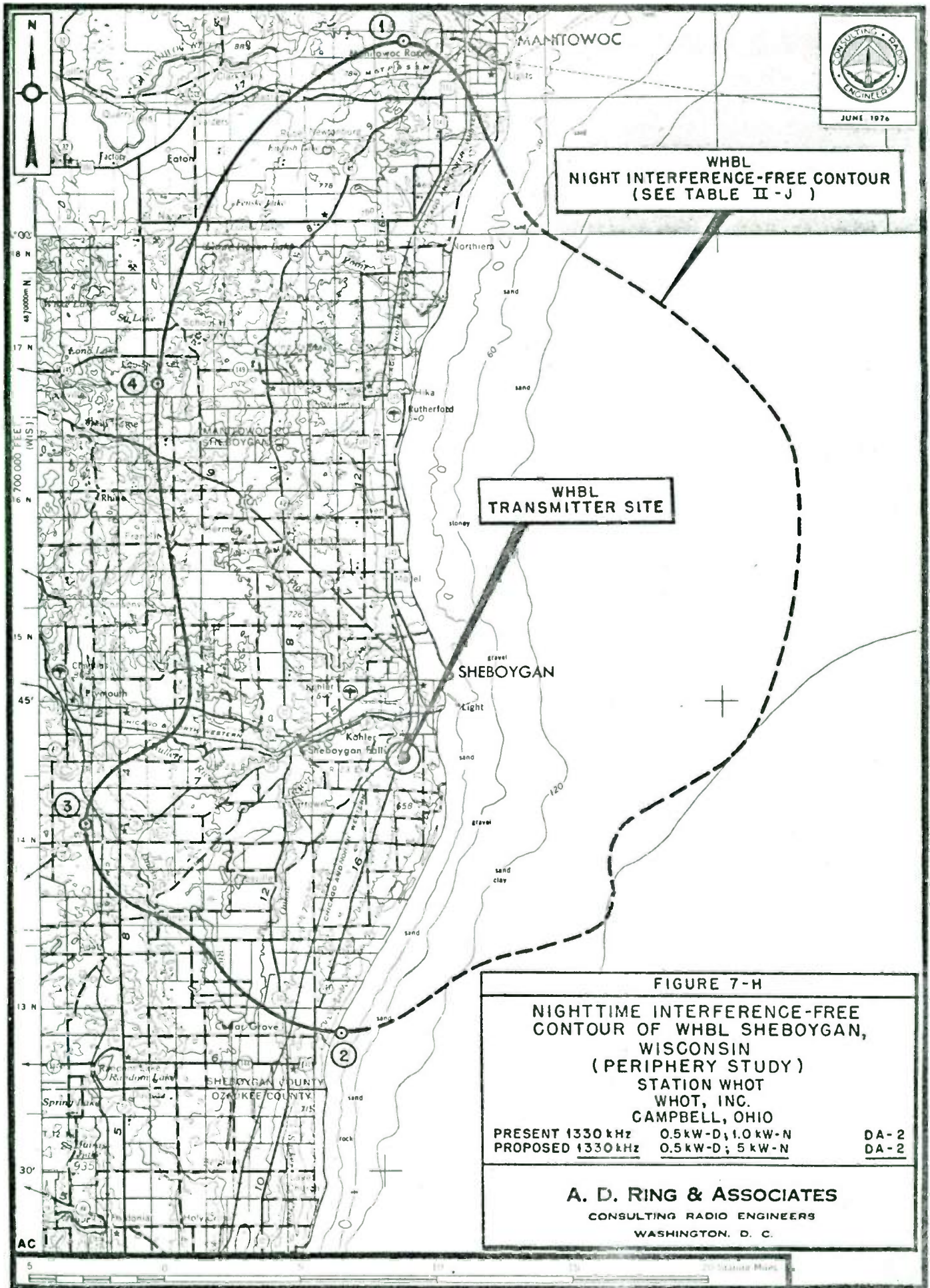




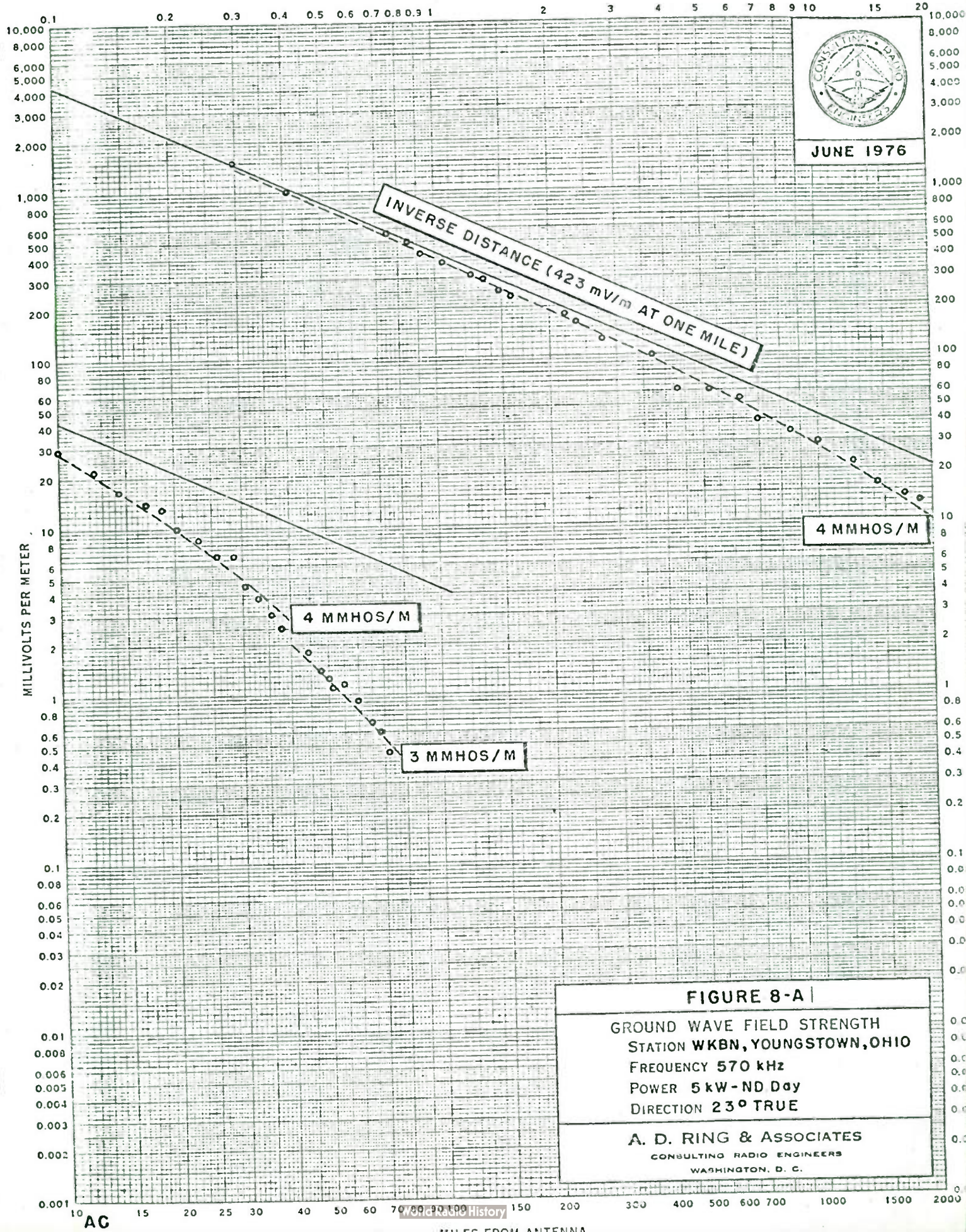




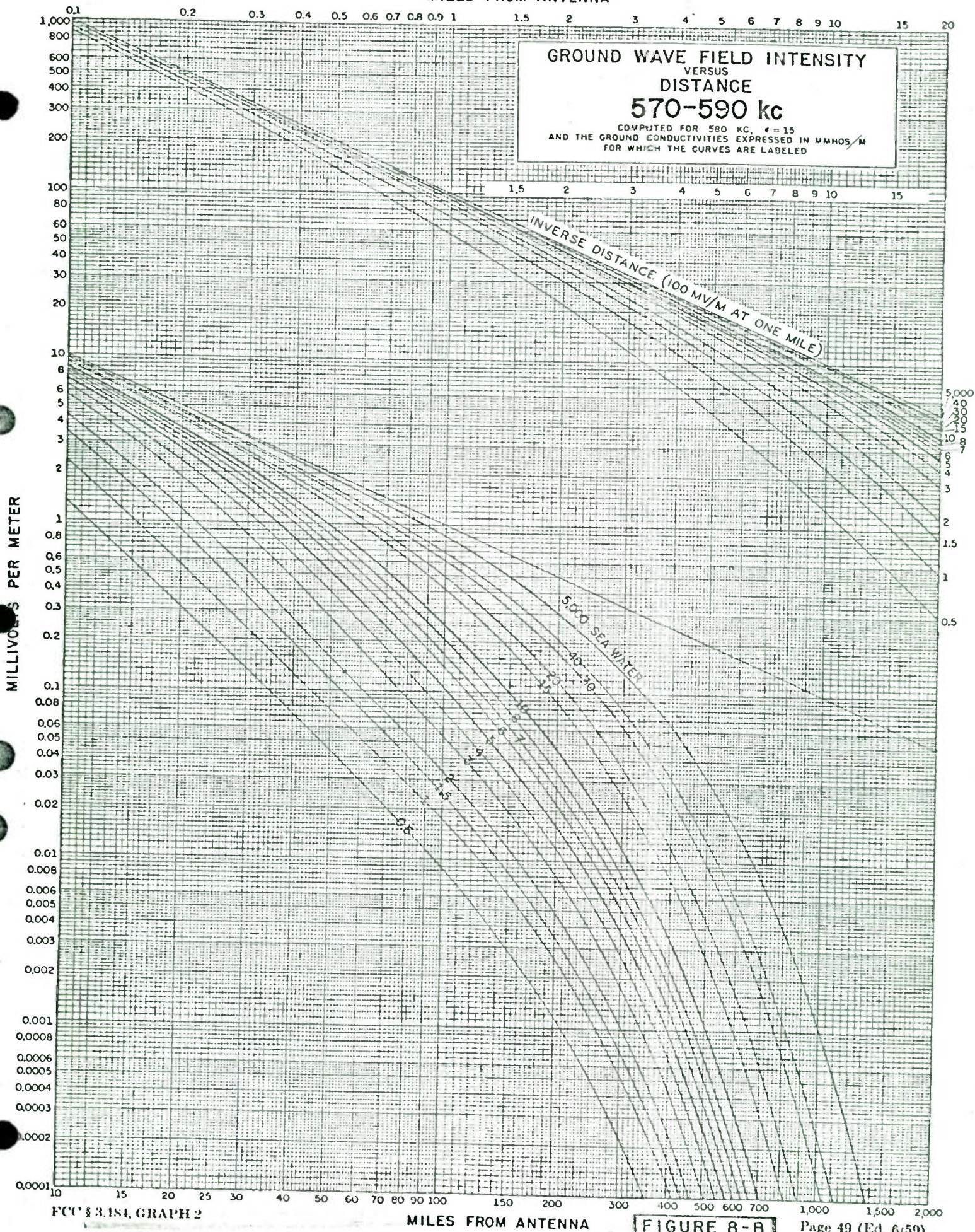




MILES FROM ANTENNA



MILES FROM ANTENNA





UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

POLAND (OHIO 176) 1.4 MI.
532 R. 2 W. R. 1 W. 1210000 FEET (P.A.)

534000m E.

23°T



JUNE 1976

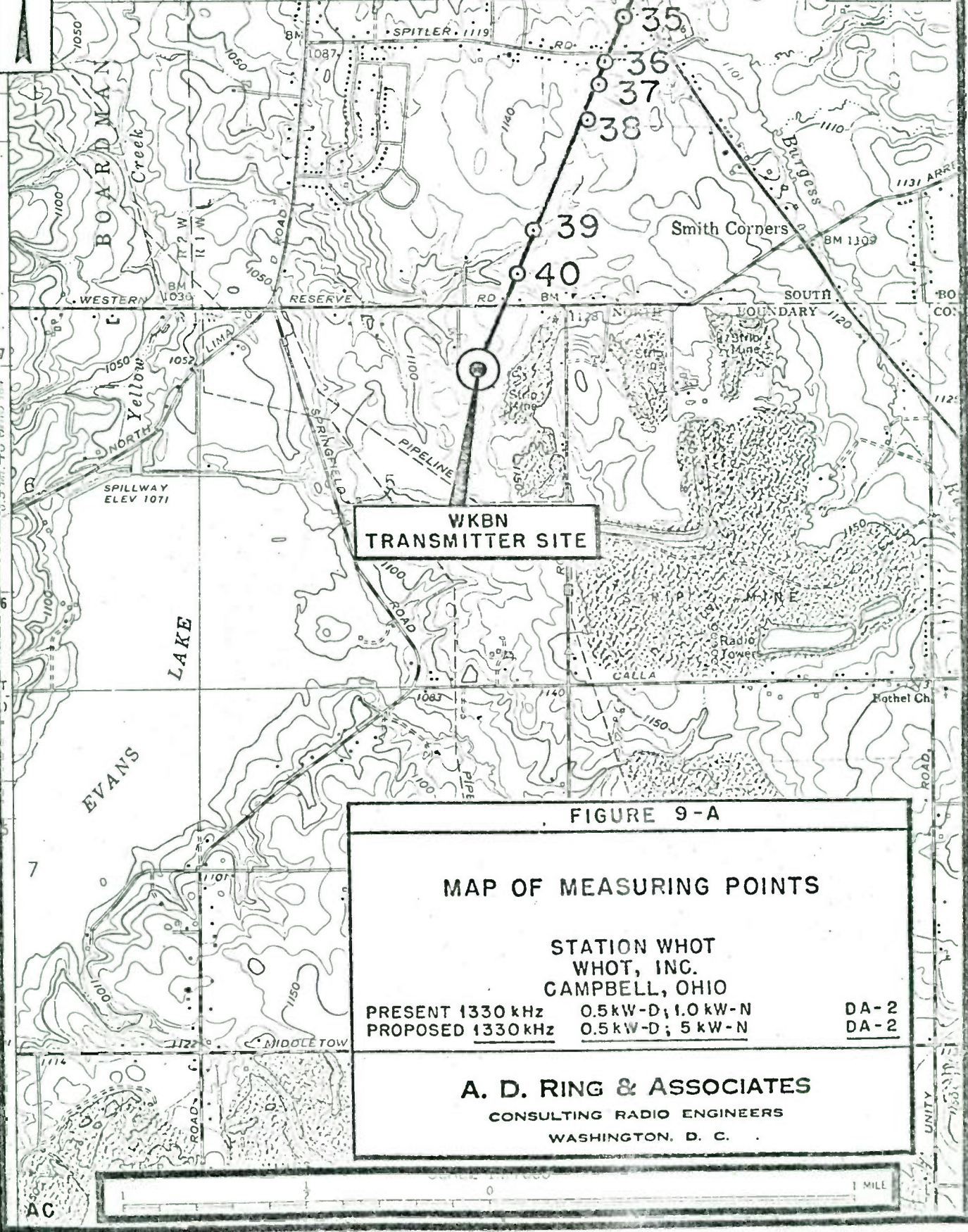


FIGURE 9-A

MAP OF MEASURING POINTS

STATION WHOT
WHOT, INC.
CAMPBELL, OHIO

PRESENT 1330 kHz 0.5kW-D; 1.0kW-N
PROPOSED 1330 kHz 0.5kW-D; 5 kW-N

DA-2
DA-2

A. D. RING & ASSOCIATES

CONSULTING RADIO ENGINEERS
WASHINGTON, D. C.



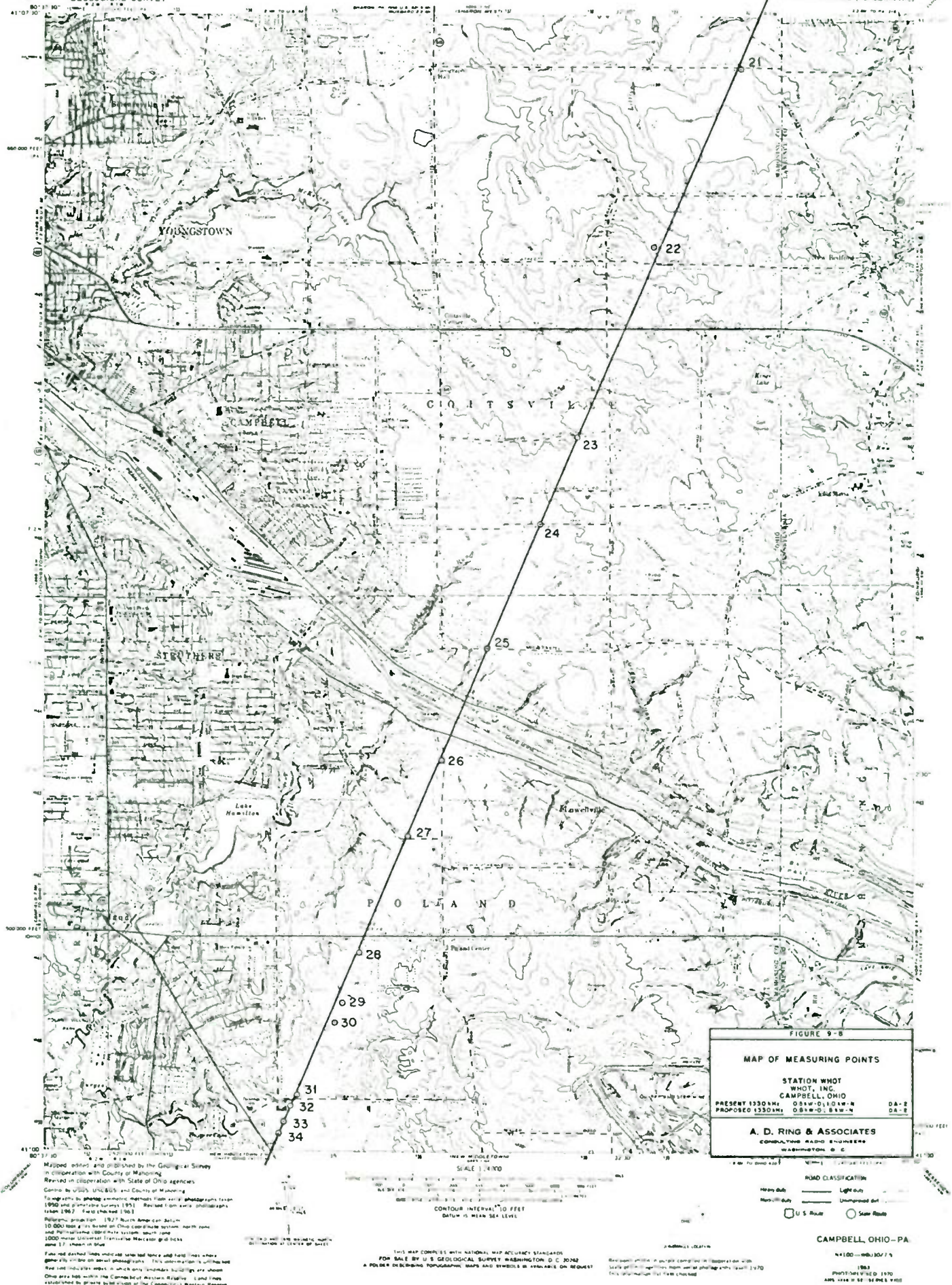


FIGURE 9-8

MAP OF MEASURING POINTS

STATION WHOT
WHOT, INC.
CAMPBELL, OHIO
PRESENT 1330M; 081W-01.81W-N
PROPOSED 1330M; 081W-01.81W-N

DA-2
DA-2

A. D. RING & ASSOCIATES
CONSULTING RADIO ENGINEERS
WASHINGTON, D. C.

ROAD CLASSIFICATION

Heavy duty Light duty
Heavy duty Unimproved dirt

U.S. Route State Route

CAMPBELL, OHIO-PA

N 100-000 100' 1/2

1963
PRINTED AND FILLED 1970
AND 1968 IN 57-58-59-60



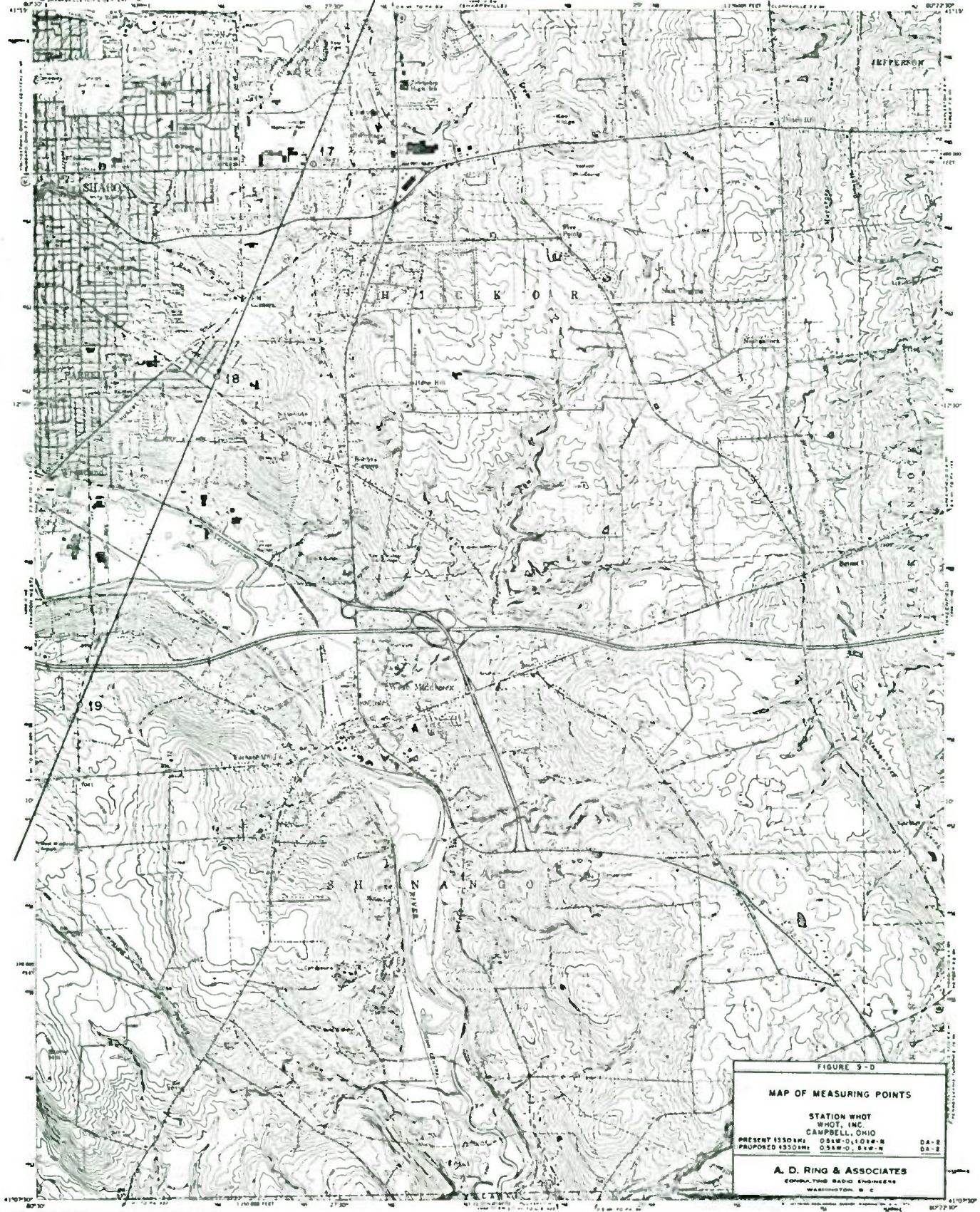


FIGURE 9-D
MAP OF MEASURING POINTS
STATION WHOT
WHOT, INC.
CAMPBELL, OHIO
PRESENT 1550M: OS&W-010K-W DA-2
PROPOSED 1550M: OS&W-010K-W DA-2
A. D. RING & ASSOCIATES
CONSULTING RADIO ENGINEERS
WASHINGTON, D. C.

Mapped, edited, and published by the Geological Survey
Control by USGS, USCAUS, and Pennsylvania Geological Survey
Topography from aerial photography by photogrammetric methods
Aerial photography taken 1955. Field work 1956
Photographic projection: 1927 North American datum
10,000-foot grid based on Pennsylvania coordinate system, north zone
1000-meter Universal Transverse Mercator grid zone
Zone 17 shown in blue
First red dashed lines indicate special fence and feed lines
which are under program. The information is unclassified
Red line indicates areas in which only landmarks
buildings are shown
Unclassified information is shown in brown



SCALE 1:24,000
CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

THIS MAP COMPLEYS WITH NATIONAL MAP ACCURACY STANDARDS
FOR SALE BY U.S. GEOLOGICAL SURVEY, WASHINGTON, D. C. 20542
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Shown only when in proper context in cooperation with
State of Pennsylvania agencies from aerial photographs
taken 1970. This information may have changed.

ROAD CLASSIFICATION
Heavy-duty Light-duty
Medium-duty Unimproved dirt
U.S. Route State Route
Interstate Route
SHARON EAST, PA
NAD 83 - 8022575
1958
PHOTOGRAPHED 1970
REVISED BY R.W. 12-1958-1981

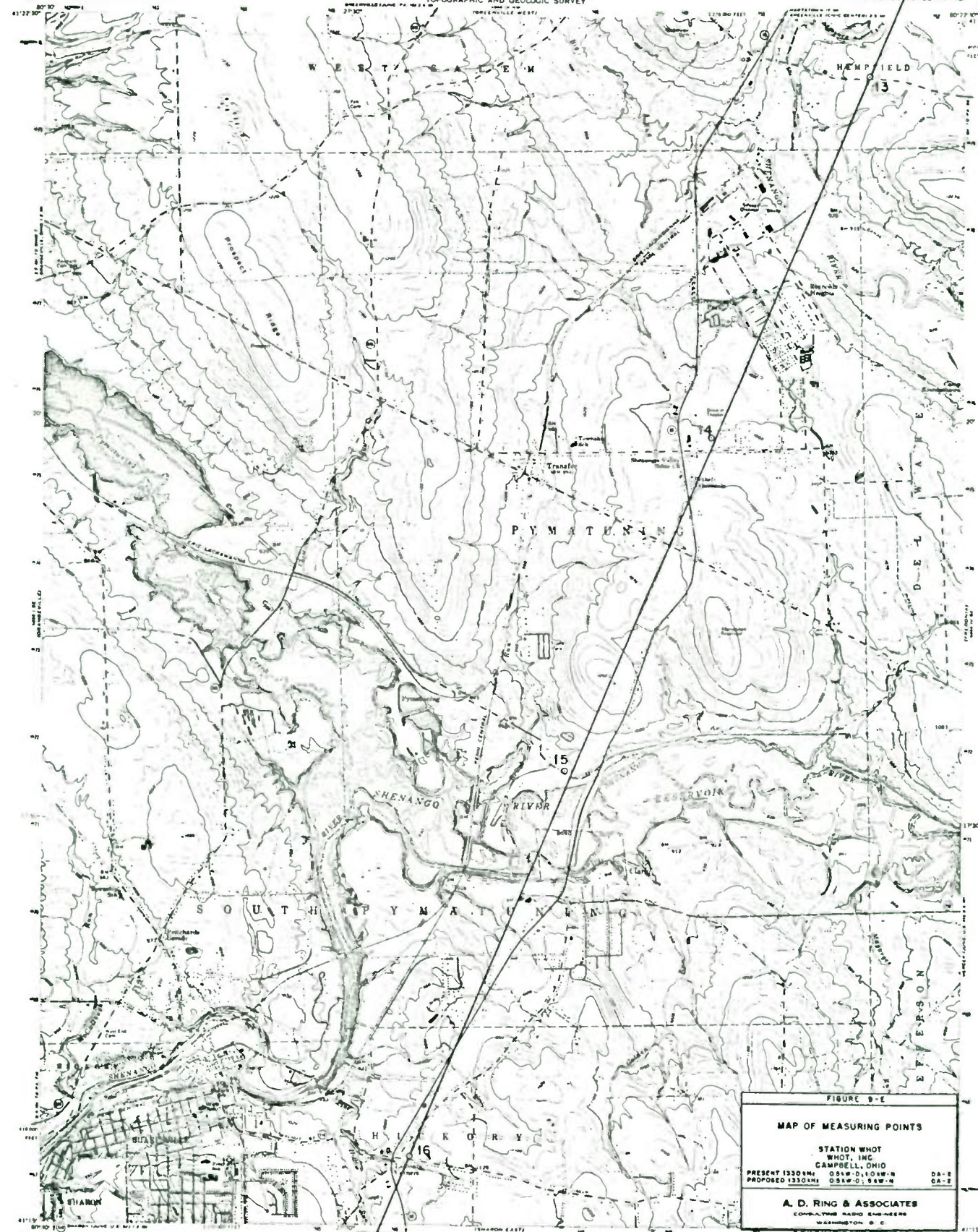


FIGURE B-E

MAP OF MEASURING POINTS

STATION WHOT
BHOT, INC
CAMBELL, OHIO
PRESENT 1330M
PROPOSED 1330M

OSW-D-10SW-N
OSW-D-10SW-N

DA-E
CA-E

A. D. RING & ASSOCIATES
CONSULTING ENGINEERS
WASHINGTON, D. C.

Map made, edited, and published by the Geological Survey
Compiled by USGS, USGS, and USGS
Topography from aerial photographs by photogrammetric methods
Aerial photographs taken 1955 and 1957. First check 1958
Photographic projection: 1927 North American datum
10,000 foot grid based on Pennsylvania coordinate system,
North zone
1000 meter Universal Transverse Mercator (UTM) zone
Zone 17, datum in UTM
Faint red dashed lines indicate the watershed lines and flood lines
indicated on aerial photographs. This information is unplaced
Red dots indicate areas in which only
topographic data are shown
Unplaced elevations are shown in black

THIS MAP COMPLETES THE NATIONAL MAP ACTIVITY STANDARD
FOR SALE BY U. S. GEOLOGICAL SURVEY WASHINGTON, D. C. 20242
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

Boundaries shown in purple compiled in cooperation with
State of Pennsylvania's species from aerial photographs
taken 1970. This information may have been used

ROAD CLASSIFICATION
Heavy duty
Medium duty
Light duty
Unimproved dirt
State Road

SHARPSVILLE, PA.
N4115-8022 5/75
1978
PHOTOGRAPHED 1970
475 AND 476 SERIES 741

WILKE WEST QUADRANGLE
PENNSYLVANIA
UTM SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

23°T
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL RESOURCES
TOPOGRAPHIC AND GEOLOGIC SURVEY

GREENVILLE EAST QUADRANGLE
PENNSYLVANIA
7.5 MINUTE SERIES (TOPOGRAPHIC)

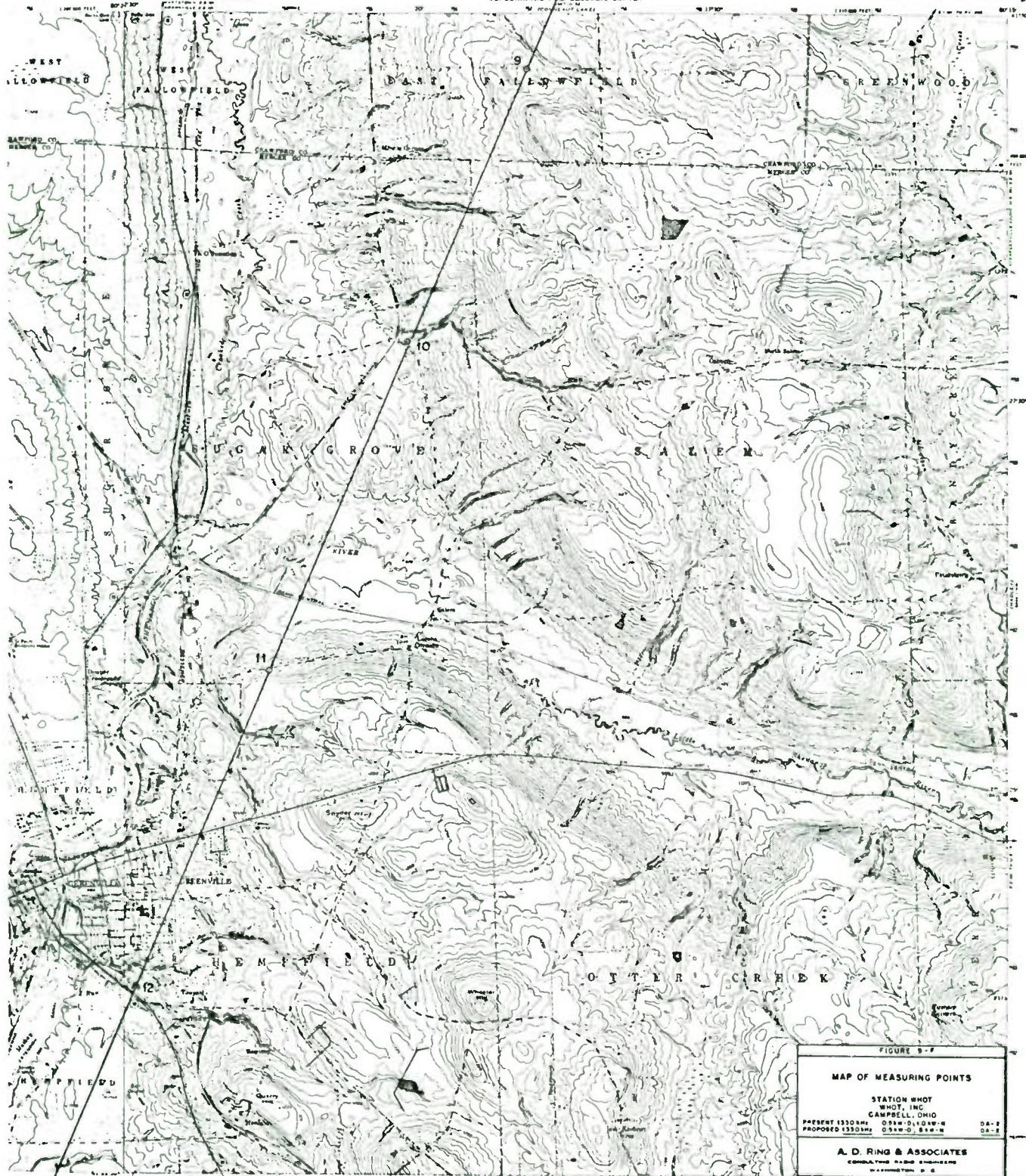


FIGURE 5-2

MAP OF MEASURING POINTS

STATION WHOT
WHOT, INC
CAMPBELL, OHIO
PRESENT 1330 M
PROPOSED 1330 M
051W-D, 814-N
DA-2
DA-2

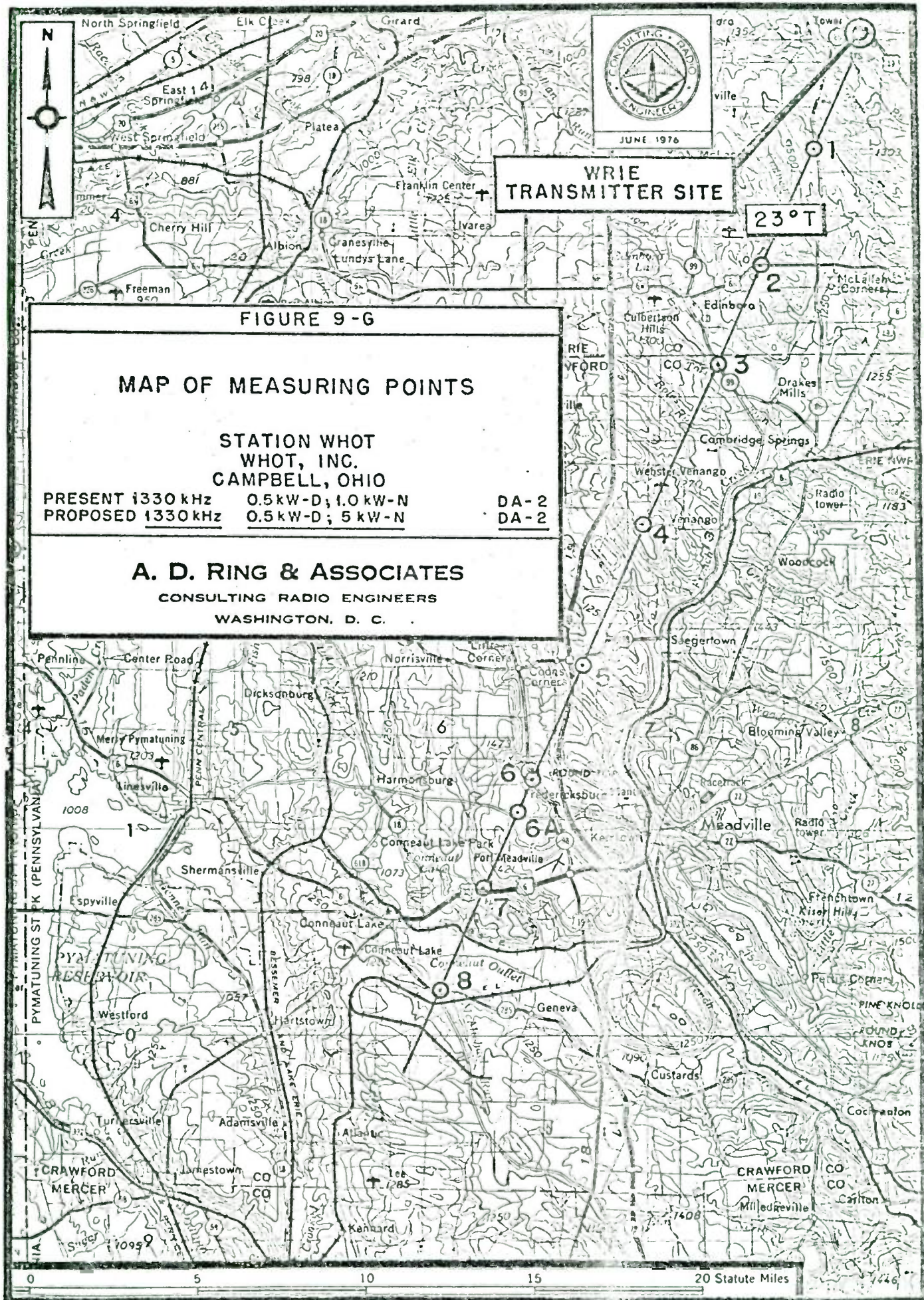
A. D. RING & ASSOCIATES
CONSULTING ENGINEERS
WASHINGTON, D. C.

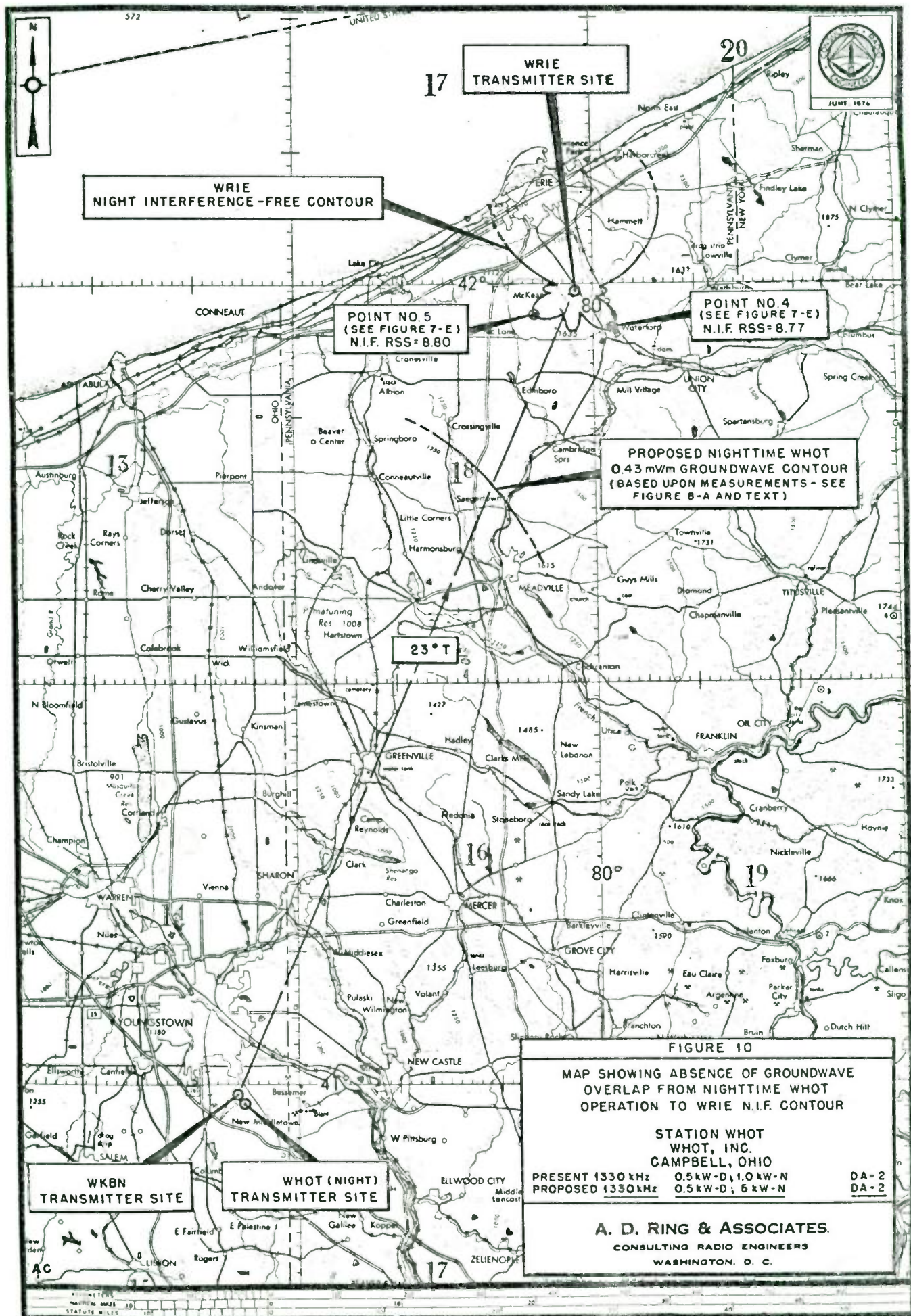
Mapped, edited, and published by the Geological Survey
Control by USGS, USACE, and Pennsylvania Geological Survey
Topography from aerial photographs by photogrammetric methods
Aerial photography taken 1956 and 1957. Field check 1958
Photographic projection: 1927 South American datum
10,000 foot grid based on Pennsylvania coordinate system, north zone
1000 meter Universal Transverse Mercator grid ticks, zone 17, shown in blue
Five red dashed lines indicate selected fence and four line
marked on aerial photographs. This information is uncharted
Red line indicates area in which new industrial buildings are shown
Uncharted structures are shown in brown

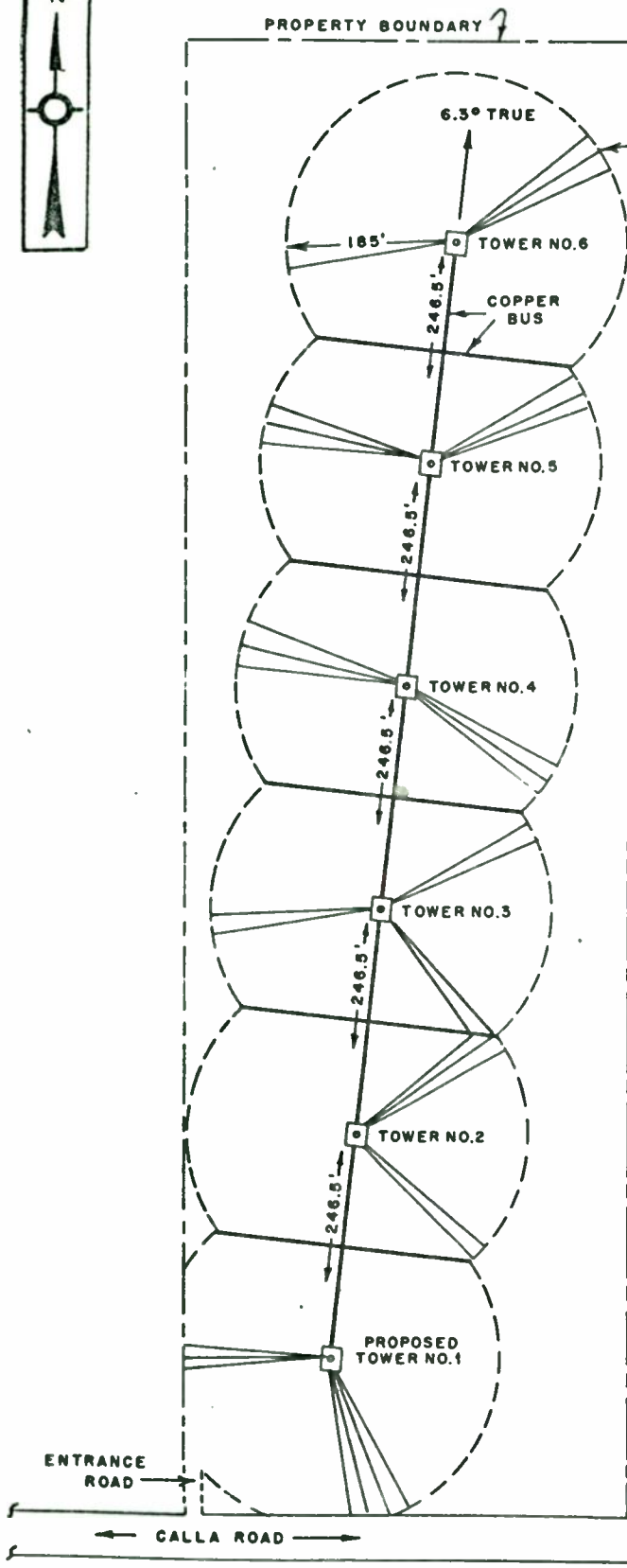
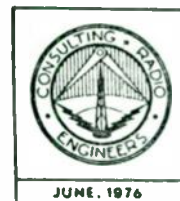
SCALE 1:24,000
CONTOUR INTERVAL, 10 FEET
NAD 83 MEAN SEA LEVEL

ROAD CLASSIFICATION
Major Road Light Road
Minor Road Unimproved Road
U.S. Route State Route

GREENVILLE EAST, PA
R4127 S-W001575
1968
PHOTOGRAPHED 1970
AND USED BY THE GEOLOGICAL SURVEY







120-185' BURIED COPPER RADIALS
EQUALLY SPACED AROUND THE BASE
OF EACH TOWER TERMINATED AT
COPPER BUS AND PROPERTY BOUNDARY.

24' SQUARE GROUND SCREEN
AT THE BASE OF EACH TOWER.

TOWERS NO. 2, 3, 4, 5 AND 6 (EXISTING)

LATITUDE 40° 58' 26" NORTH
LONGITUDE 80° 35' 18" WEST



FIGURE 11

PLAT OF SITE

STATION WHOT
WHOT, INC.
CAMPBELL, OHIO

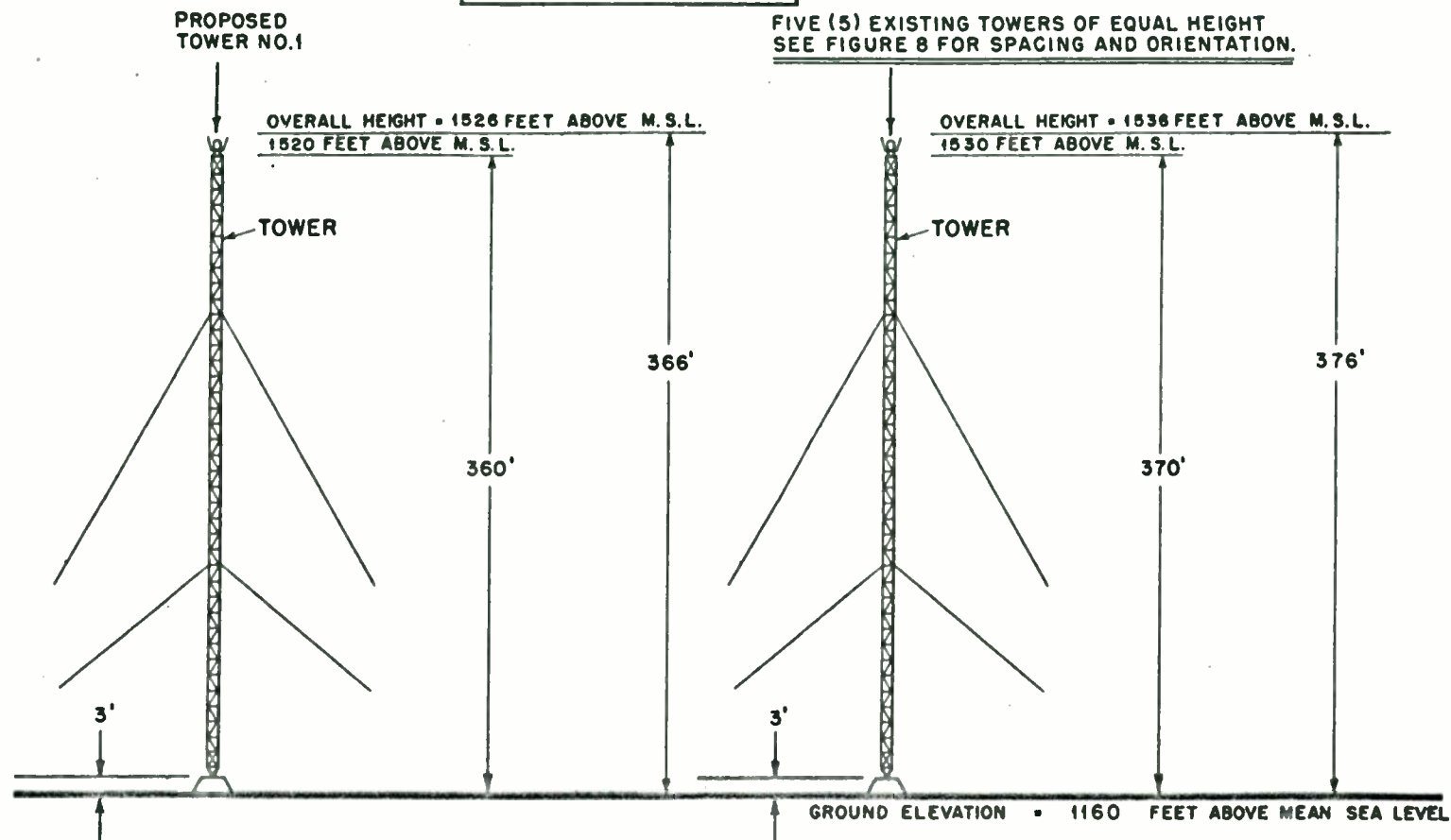
PRESENT 1330 kHz 0.5 kW-D; 1.0 kW-N
PROPOSED 1330 kHz 0.5 kW-D; 5 kW-N

DA-2
DA-2

A. D. RING & ASSOCIATES

CONSULTING RADIO ENGINEERS
WASHINGTON, D. C.

LATITUDE 40° 58' 26" NORTH
LONGITUDE 80° 35' 18" WEST



NOT DRAWN
TO SCALE

FIGURE 12

SKETCH OF ANTENNA

STATION WHOT
WHOT, INC.
CAMPBELL, OHIO

PRESENT 1330 kHz 0.5 kW-D; 1.0 kW-N
PROPOSED 1330 kHz 0.5 kW-D; 5 kW-N

DA-2
DA-2

A. D. RING & ASSOCIATES

CONSULTING RADIO ENGINEERS
WASHINGTON, D. C.

AC

