FCC # 85/003 MB

ORIGINAL

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OCT 30 10 04 AM '85
AUDIO SERVICES DIVISION

Sable Community Broadcasting Corporation
114 West 17th. Street
Anniston, Alabama 36201

October 29, 1985

RECEIVED BY
OCT 30 1985
MAIL BRANCH

Mr. William J. Tricarico, Secretary
Federal Communications Commission
1919 M Street, N. W.
Washington, D. C. 20554

Dear Mr. Secretary:

Please accept the enclosed materials as an amendment to our pending construction permit application for a new non-commercial educational FM broadcast station to operate at Hobson City, Alabama.

The purpose of this amendment is to bring our application into compliance with the Commission's recently-adopted new Rule 73.525.

As our engineer has described in his report, we are requesting that this amendment be considered a 'minor change' and/or that it be given expedited processing.

If any additional information is needed in this matter, do not hesitate to contact us or our engineer at once.

Respectfully,

Sable Community Broadcasting Corporation

By: Maudine J. Holloway
Maudine J. Holloway, President

REC'D DATA MGMT STAFF
NOV 1 1985
AUDIO SERVICES

SECTION V-B

FM ENGINEERING DATA	Name of applicant SABLE COMMUNITY BROADCASTING CORPORATION	FOR COMMISSION USE ONLY File No.

1. Purpose of authorization applied for: [X] Construct a new station [ ] Make changes in authorized Radio station

(a) If this is not for a new station, summarize briefly the nature of the changes proposed.

THIS IS AN AMENDMENT TO THE PENDING APPLICATION TO ACHIEVE COMPLIANCE WITH THE COMMISSION'S RECENTLY-ADOPTED NEW RULE 73.525 CONCERNING INTERFERENCE TO TELEVISION CHANNEL 6. APPLICANT PROPOSES REDUCTION IN ERP AND CHANGE TO VERTICAL-ONLY POLARIZATION. IT IS REQUESTED THAT THIS AMENDMENT BE TREATED AS A MINOR CHANGE

(b) If this is an application (or amendment thereto) to make changes in an existing station or to amend application for a new station is the change being made to one of the following?

(1) Frequency (2) Station location (3) Class [ ] Yes [X] No

(c) If Yes, this constitutes a major change. Question 3(a) on page 1 of Section I of this form should be answered accordingly.

2. Facilities requested

Frequency	Transmitter power output
91.3 MHZ.	0.118 KW.

3. Proposed transmitter location

State	County	City
ALABAMA	CALHOUN	HOBSON CITY

Street address (or other identification): GIRL SCOUT BUILDING OFF PARK AVENUE

4. Proposed location of main studio

State	County
ALABAMA	CALHOUN

City or town	Street address
HOBSON CITY	TO BE DETERMINED

Other studios proposed: -- NONE --

5. Transmitter

Make	Type No.	Rated power
QEI	675T300	300 WATTS

(If the above-transmitter has not been accepted for licensing by the F.C.C., attach as Exhibit No. DNA 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 frequency change.)

6. Transmission line proposed to supply power to the antenna from the transmitter

Make	Type No.	Description
CABLEWAVE	FLC-78-50J	JACKETED FOAM WELLFLEX

Size (nominal transverse dimension)	Length	Rated efficiency for this length
7/8 inches	200 ft.	84.7 %

7a. Antenna Structure

Is the proposed construction in the immediate vicinity or does it serve to modify the construction of any AM, FM or TV broadcast station or other class of radio station? [ ] Yes [X] No

If Yes, attach as Exhibit No. DNA complete engineering data thereon.

Attach as Exhibit No. E-1 a vertical plan sketch for the proposed total structure (including supporting building if any) giving heights above ground in feet for all significant features.

Overall height above ground (without obstruction lighting): 200 ft.

Height of antenna radiation center above mean sea level 373m
Horizontal DNA ft.
Vertical 1225 ft.

Georgraphical coordinates of antenna (to nearest second)
North Latitude 33° 37' 03"
West Longitude 85° 51' 46"

7b. Antenna Data

Make	Type No. or description
ANTENNA SPECIALISTS	ASPA-244 CUSTOM COAXIAL DIPOLE

Antenna power gain		No. of Sections	
Horizontal	DNA	Horizontal	DNA
Vertical	1.0	Vertical	1

Is horizontal polarization proposed? [ ] Yes [X] No

If No, attach as Exhibit No. TEXT complete engineering data on the antenna and the effective radiated power proposed.

VERTICAL POLARIZATION ONLY

Is directional antenna proposed? [ ] Yes [X] No

If Yes, attach as Exhibit No. DNA complete engineering data thereon.

8. If this is a major environmental action attach as Exhibit No. DNA a sufficient number of aerial photographs taken in clear weather at appropriate attitudes and angles to show the nature of the surrounding terrain in the vicinity of the proposed transmitter site. The photographs must be marked so as to show compass directions. Photographs taken in eight different directions from an elevated position on the ground will be acceptable in lieu of the aerial photographs if the area can be clearly shown. Give date photographs were taken.

9. Proposed Operation - Power				10. Modulation Monitor	
Transmitter output power	Dissipation within transmission line	Antenna input power	Effective radiated power	Make	Type No.
0.118 kw	0.018 kw	0.100 kw	Horizontal 0 kw Vertical 0.1 kw	BELAR	FMM-1, FMS-1

10. Attach as Exhibit No. E-2 a map (Sectional Aeronautical Charts where obtainable) showing the present and proposed 1mV/m (60dbu) contours.
Enter the following from Exhibit above:
Gain Area 0 Sq. mi. Loss Area 236.9 Sq. Mi.
Percent change (gain area plus loss area as percentage of present area) 54.6 % If 50% or more this constitutes a major change. Indicate in question 3(a), Section I, accordingly.

11(a). Attach as Exhibit No. E-3 maps showing the nature of the terrain, etc., within 25 kilometers (15 miles) of the proposed antenna location . Where obtainable, 7½ minute topographic maps, such as U.S. Geological Survey quadrangles, shall be used. If these maps are not available, the next best available maps shall be used. In addition the following shall be indicated on map:

(1.) Proposed transmitter and main, studio locations accurately plotted;
(2.) Transmitter location and call letters of all known radio stations (except amateur and citizens band) and the location of established commercial and government receiving stations within 2 miles of the proposed transmitter location;
(3.) Character of the area within 2 miles of transmitter location, suitably designated as to residential, business, industrial and rural nature;
(4.) At least eight radials each extending to a distance of ten or more miles from the proposed transmitter location.

(b) Attach as Exhibit No. * profile graphs for the radials in 11 (a)(4). Each graph shall show the elevation of the antenna radiation center. Identify each graph by its bearing from the proposed transmitter location. Direction true north shall be a zero azimuth and angles measured clockwise. Show source of topographical data and scale of miles on each.

*ON FILE WITH APPLICANT'S FORM 340 OF JANUARY 14, 1984; NO CHANGE.

12. From the profile graphs in 11(b), for the eight mile distance between two and ten miles from the proposed transmitter location, and in accordance with the procedure prescribed in Section 73.313 of the Commission's Rules, supply the following tabulation of data: (If proposed location is adjacent to the sea coast or the Great Lakes omit from this tabulation all radials which lie over water substantially the entire distance between two miles from the proposed transmitter location and the predicted 50 microvolt per meter contour.)

Radial bearing (degrees true)	Average elevation of radials (2-10 mi.) above mean sea level	Height of antenna radiation center above average elevation of radial (2-10 mi.)	Predicted distance to the 1mV/m contour	Predicted distance to the 50 uv/m contour
0°	735 feet	490 feet	8.175 mi.	30.903 mi.
45°	994	231	5.3875	22.883
90°	677	548	8.61	32.299
135°	835	390	7.375	28.495
180°	806	419	7.6425	29.26
225°	634	591	8.9325	33.321
270°	708	517	8.3775	31.556
315°	718	507	8.3025	31.315

Antenna height above average terrain
(Average of above listed heights)
Horizontal DNA ft.
Vertical 462 ft.
141 m

Allocation Studies
(See Subpart C of Part 73 of the Commission's Rules and Regulations)

13. Is the proposed antenna location within 320 kilometers (199 miles) of the common border between the United States and Mexico?

☐ Yes ☒ No

If Yes, attach as Exhibit No. DNA a showing of compliance with all provisions of the Agreement between the United States of America and the United Mexican States concerning Frequency Modulation Broadcasting in the 88 to 108 MHz band.

14. With regard to stations within 320 kilometers (199 miles) of the common border between the United States and Mexico, attach as Exhibit No. DNA information required in 1/.

15. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), then with regard to stations more than 320 kilometers (199 miles) from the common border between the United States and Mexico or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz.) attach as Exhibit No. E-4 a complete allocation study to establish the lack of prohibited overlap of contours involving these stations. The allocation study should include the following:

(a) The normally protected, the interference-free and the interferring contours for the proposed operation along all azimuths.
(b) Complete normally protected 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) Plot of the transmitter location of each station or proposal requiring investigation, with identifying call letters, file numbers and operating or proposed facilities.
(f) When necessary to show more detail, an additional allocation study will be attached utilizing a map with a larger scale to clearly show interference or absence thereof.
(g) A scale of miles and properly labeled longitude and latitude lines, shown across the entire Exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(h) The name of the map(s) used in the exhibit(s).

16. Is the proposed antenna location within 403 kilometers (250 miles) of the common border between the United States and Canada?

☐ Yes ☒ No

If Yes, attach as Exhibit No. DNA a showing of compliance with all provisions of the Working Arrangement for Allocation of FM Broadcasting Stations on Channels 221-300 under The Canada-United States FM Agreement of 1947.

17. With regard to station separated by 53 or 54 channels (10.6 or 10.8 MHz) attach as Exhibit No. E-5 information required in 1/ (separation requirements involving intermediate frequency (i.f.) interference)

1/ A showing that the proposed operation meets the minimum distance separation requirements. If any separations are proposed that are less than the applicable minimum separation requirements plus 15 kilometers, include these stations. Also include existing stations, proposed stations, and cities which appear in the Table of Assignments; the location and geographic coordinates of each antenna, proposed antenna or reference point, as appropriate; and distance to each from proposed antenna location.

18. Is the proposed operation on Channel 218, 219 or 220? ☐ Yes ☒ No

If Yes, attach as Exhibit No. DNA information required in 1/ regarding separation requirements with respect to stations on Channels 221, 222, and 223.

19. Is the proposed station for a channel in the range from Channel 201 to 221 (88.1-91.9 MHz) and the proposed antenna location within the Grade B contour of a channel 6 television station or sufficiently near the Grade B contour that a question of interference to channel 6 may be raised? ☒ Yes ☐ No

If Yes, attach as Exhibit No. E-6, TEXT a map showing the Grade B contour of the television station and the proposed antenna location. Also include discussion of the possibility of interference to the Channel 6 station and the steps proposed to remedy any interference which may occur.

PROPOSAL COMPLIES WITH PROVISIONS OF NEW R&R 73.525

20. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1 - 107.9 MHz)? ☐ Yes ☒ No

If Yes, attach as Exhibit No. DNA information required in 1/ (Except for class D (secondary) proposals).

21. If the proposed antenna location is in or near a populated area, attach Exhibit No. TEXT a discussion of the possibility of blanketing and the steps proposed to remedy any interference which may occur.

22. Environmental Statement, See Part 1, Subpart I of the rules

Would a Commission grant of your application be a major action as defined by Section 1.1305 of the Commission's Rules? ☐ Yes ☒ No

If Yes, attach as Exhibit No. DNA the required statement in accordance with Section 1.1311 of the Commission's Rules.

If No, explain briefly. SINGLE PROPOSED TOWER DOES NOT APPROACH 300 FEET HEIGHT ABOVE GROUND LEVEL AND NO ADVERSE IMPACT IS FORESEEN.

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 OCTOBER 28, 1985

☐ Technical Director
☐ Registered Professional Engineer
☒ Consulting Engineer
☐ Chief Operator
☐ Other (Specify)

Signature [signature]

Address P. O. BOX 413
(Include ZIP Code)
BRENTWOOD, TENNESSEE 37027

Telephone No. (615) 373-0676
(Include Area Code)

BPED-851003MB

Broadcast Application — Section V-G (Antenna)

ANTENNA AND SITE INFORMATION (See instruction B, Section I)	NAME OF APPLICANT	CALL SIGN
	SABLE COMMUNITY BROADCASTING CORPORATION	(NEW)

CLASS OF STATION	STATION LOCATION
ED. FM., CLASS A	HOBSON CITY, ALABAMA

FACILITIES REQUESTED

CHANNEL 217A, 91.3 MHZ,
0.1 KW. ERP, 462 FT. HAAT, V POL ONLY

PURPOSE OF APPLICATION (Put "X" in appropriate box)

- [X] a. New antenna construction
- [ ] b. Alteration of existing antenna structure
- [ ] c. Change in location

LEGAL COUNSEL
DR. CHARLES KNOX, NCBL

ADDRESS
4545 S. DREXEL, CHICAGO, IL. 60653

CONSULTING ENGINEER
B. SCOTT BAXTER (615) 373-0676

ADDRESS
PO BOX 413, BRENTWOOD, TN. 37027

3. Has the FAA been notified of proposed construction? (Not necessary to file FCC Form 714.)

- [ ] YES If yes, give date and office where notice was filed.
- [X] No — NOT REQUIRED DUE TO SHIELDING OF ANTENNA BY HILLTOP OF GREATER ELEVATION LOCATED ONLY 1000 FEET WEST OF TOWER

1. LOCATION OF ANTENNA

STATE	COUNTY	CITY OR TOWN
ALABAMA	CALHOUN	HOBSON CITY

Exact antenna location (street address). If outside city limits, give name of nearest town and distance and direction of antenna from the town.

GIRL SCOUT BUILDING OFF PARK AVENUE

Geographical coordinates (to nearest second).
For directional antenna give coordinates of center of array.
For single vertical radiator give tower location.

North latitude	West longitude
33° 37' 03"	85° 51' 46"

2. Is the proposed site the same or immediately adjoing the transmitter-antenna site of other stations authorized by the Commission or specified in another application pending before the Commission?

- [ ] YES
- [X] NO If yes, give call sign: _____

4. FEATURES OF SURROUNDING TERRAIN

Attach as Exhibit No. E-3 a chart on which is plotted the exact location of the antenna site, and also the relative location and height of any natural formation or existing man-made structures (trees, water tanks, towers, buildings, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft. The chart used shall be a 7.5 or 15 minute series topographic quadrangle (choice depending upon proximity of the antenna site to landing areas) or full scale photo copy. On the chart include 1) a scale of miles, 2) sufficient latitude and longitude lines, clearly labeled, so that the location of sites may be verified, and 3) all identifying map information. These charts may be purchased from the U.S. Geological Survey, Washington, D.C. 20242 or, for areas west of the Mississippi River, from the U.S. Geological Survey, Denver, Colorado 80225.

(Exception - When the proposed antenna site is within the boundary of landing area, submit a large scale map showing antenna site runways and existing man-made structures).

NO OBSTRUCTION MARKING/LIGHTING

APR 1986

ANTENNA SURVEY BRANCH

5. 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.

	Landing Area	Distance	Direction
(a)	ANNISTON MUNICIPAL	1.8 STATUTE MILES	SOUTH
(b)			
(c)			

6. Description of antenna system (If directional, give spacing and orientation of towers).

Type: SINGLE ELEMENT COAXIAL DIPOLE FM ANTENNA

Description of tower(s): UNIFORM CROSS-SECTION, GUYED

Self-supporting	Guyed				Tubular (Pole)	
Tower (height figures should include obstruction lighting)	#1	#2	#3	#4	#5	#6
Height of radiating elements	185					
Overall height above ground	188					
Overall height above mean sea level	1228					

7. If a combination of AM, FM, or TV operation is proposed on the same multi-element array (either existing or proposed) attach as Exhibit No. DNA a horizontal plan for the proposed antenna system, giving heights of the elements above ground and showing their orientation and spacing in feet. Clearly indicate if any towers are existing.

8. Attach as Exhibit No. E-1 a vertical plan sketch for the proposed total structure (including supporting building if any) giving heights above ground in feet for all significant features. Clearly indicate existing portions, noting lighting, and distinguish between the skeletal or other main supporting structure and the antenna elements.

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.

OCTOBER 28, 1985 (date) — Signature: B. Scott Baxter

B. SCOTT BAXTER

(check appropriate box below)

- [ ] Technical Director
- [ ] Chief Operator
- [ ] Registered Professional Engineer
- [X] Consultant

January 1983

TECHNICAL REPORT AND EXHIBITS

SABLE COMMUNITY
BROADCASTING CORPORATION

HOBSON CITY, ALABAMA

AMENDMENT TO PENDING ED-FM
CP APPLICATION

OCTOBER 28, 1985

B. SCOTT BAXTER
P. O. BOX 413
BRENTWOOD, TENNESSEE 37027

TELEPHONE (615) 373-0676

CERTIFICATION

I, Barrett Scott Baxter, do hereby certify and declare under penalty of perjury under the laws of the United States:

That I am an electrical engineering graduate of Vanderbilt University at Nashville, Tennessee;

That my qualifications in telecommunications matters are of record before the Federal Communications Commission, as presented and accepted upon many occasions in the past;

That I am a consultant with offices in Brentwood, Tennessee, specializing in technical topics pertaining to the Broadcast industry and the associated RF transmission systems;

That I have been retained by Sable Community Broadcasting Corporation for the purpose of preparing the accompanying report and associated figures on its behalf;

That the accompanying report and associated figures were prepared by me personally; that I am familiar with their contents; and that all information presented therein is true and correct of my own knowledge and belief.

/S/ Barrett Scott Baxter

Barrett Scott Baxter

October 28, 1985

INTRODUCTION

This report has been prepared for Sable Community Broadcasting Corporation for use in an amendment to its pending application for construction permit for a new non-commercial educational FM broadcast station at Hobson City, Alabama.

Although the original Sable application was tendered promptly after preparation in January, 1984, its presence within the Commission's files was not detected until much later when it was discovered among NTIA grant application data filed by the applicant. In the interim, the Commission has adopted the new joint compromise solution in the Educational FM/Television Channel Six matter and has promulgated new R&R 73.525. The Commission's Staff has graciously allowed the applicant time to amend its proposal to comply with the provisions of the new Rule.

For channel 217, the applicable radius for consideration of channel 6 proposals is 174 kilometers (108.12 miles). WBRC-TV at Birmingham, Alabama is the only station or proposal within 174 kM. of the Hobson City proposed site. The actual separation between WBRC-TV and the site is 88.15 kilometers (54.776 miles) and the channel 6 field strength at the proposed site is 51 dBu. Referring to the curves within R&R 73.525, at this level a 217A/TV6 ratio of 23.9 dBu constitutes interference to channel 6. This level is 74.9 dBu (5.56 mV/m).

The applicant's original proposal produced a 74.9 dBu

contour extending an average of about five miles, including a population in excess of 12,000. Since the maximum population permitted within the interference area under R&R 73.525 is 3000, this amendment is necessary for compliance.

The applicant here proposes to reduce power to an ERP of 100 watts, and to employ vertical polarization only. On this basis, the equivalent interference-producing horizontal plane ERP is calculated as 0.1/40=0.0025 kW. and the 74.9 dBu contour extends approximately one mile, as shown in accompanying Exhibit E-3 Figure B.

On October 19, 1985, representatives of the applicant conducted a count of dwellings withsin the 74.9 dBu contour. A total of 313 dwellings were found. Using the accepted average of four residents per household, the population within the interference area is found to be 1252, substantially within the permissible maximum of 3000.

R&R 73.525 contains a provision which stipulates that if WBRC-TV elects to purchase the applicant's proposed antenna, the permissible ERP will be one-half that which would be otherwise permissible. From examination of Exhibit E-3 Figure B and the applicant's dwelling count , it appears that even with twice the ERP proposed, the population within the interference area would be significantly below 3000. Accordingly, this application is believed independent of any dependence on any possible antenna purchase relationship with WBRC-TV, although the applicant will welcome any assistance or cooperation which WBRC-TV may provide.

The proposed antenna system will consist of a single element coaxial dipole with a power gain of 1.0.

WAIVER REQUEST FOR PROCESSING AS MINOR CHANGE

Although no change of frequency, class, or city of license is proposed, this proposal would normally be considered as a 'major change' within the meaning of the Commission's Rules based on a change of more than 50% in the area within the 1 mV/m contour. Since this amendment is made necessary by changes in the Commission's Rules which were beyond the control of the applicant, and since substantial processing time already has been lost due to the inadvertent mis-recognition of the applicant's proposal within the Commission's Files, and since the change proposed involves a reduction in the size of all of the pertinent proposed contours with no possibility of new interference or involvement with any other proposal, the applicant hereby requests that this be treated as a minor amendment and that it be allowed to retain its place in the processing line. Alternatively or in addition to the above, the applicant requests expedited processing so that this minority-related community-oriented service may commence at the earliest possible time.

ACCOMPANYING FIGURES AND EXHIBITS

The remaining figures and exhibits of this report respond to specific paragraphs of FCC Form 340, Section V-B and V-G, and to applicable provisions of other Commission Rules.

Exhibit E-1 shows a vertical sketch of the proposed antenna structure. Since the overall height proposed is less than 200 feet, and since land elevations higher than the tip of the antenna exist within 1000 feet west of the site, this proposal does not require FAA notification or marking and lighting. Within less than 3000 feet west of the site, land elevations exist more than 470 feet above the structure tip.

Attached Exhibit E-2 shows the proposed service contours and those originally proposed, on a Sectional Aeronautical Chart.

Exhibit E-3 consists of two figures showing the site on full-scale reproductions of USGS 7.5-minute topographic quadrangles. Figure A contains sufficient surrounding USGS-imprinted references to allow coordinate verification and elevation verification, while Figure B is a composite of four adjoining quadrangles which shows a greater region of the surrounding terrain and the entire predicted Channel 6 interference area.

The only radio or television facility in the vicinity of the site is non-broadcast, a cable television head-end located on a mountaintop considerably above the proposed site and located in the direction of Birmingham from the site. The cable television receiving antennas will therefore be oriented away

from the proposed facility. No adverse interaction or interference is anticipated between the proposed facility and the CATV operation, but should any such interference be experienced, it will be promptly remedied by the applicant before the beginning of program test operation.

Due to the rural character of the immediate surroundings of the antenna, no blanketing interference problems are anticipated from the proposed facility. However, the applicant will comply with its obligations under the Rules and established precedents to aid any affected parties in resolving any blanketing-related problems.

Since the proposed antenna consists of a single tower less than 300 feet in height, this proposal would be considered a 'minor environmental action' and no adverse environmental impact is anticipated. Consequently, no environmental impact narrative statement is required or presented in this report.

Exhibit E-4 is an allocation study showing the pertinent contours of this proposal and the related contours of other stations and proposals within a range of more than 100 miles. There are no close or critical clearances involved. The exhibit also includes a tabulation identifying the other facilities shown and the distances to their pertinent contours.

Accompanying Table I shows the distance to each pertinent proposed contour and the height employed in its calculation. Heights above average terrain were taken from the profile graphs and tabulations contained in this applicant's original proposal,

already in this file.

Exhibit E-5 is a tabulation showing that there are no stations within a range of 65 miles on I-F separated commercial FM channels.

Exhibit E-6 provides information relative to the relationship of this proposal with Channel 6, including a tabulation listing surrounding channel 6 facilities in order of increasing distance from this proposal, and a contour map showing the location of the interference area within the overall service contour structure of WBRC-TV.

Should any further information be needed by the Commission's Staff in connection with the processing of this proposal, it will be promptly supplied upon request. The applicant will also welcome any inquiry or coordination with representatives of WBRC-TV.

TABLE I. CONTOURS OF INSTANT AMENDMENT
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 217

AZIMUTH	ERP, KW.	HAAT (FT)	3.16/50%	1/50%	.5/10%	.1/10%	10/10%	100/10%	.05/50%
0	.1	490	4.3858	8.175	11.743	26.284	2.3508	.35515	30.903
45	.1	231	2.986	5.3875	7.8961	18.182	1.7174	.26321	22.883
90	.1	548	4.648	8.61	12.672	27.558	2.4823	.36598	32.299
135	.1	390	3.937	7.375	10.023	23.83	2.1195	.33393	28.495
180	.1	419	4.0805	7.6425	10.594	24.669	2.1999	.34232	29.26
225	.1	591	4.8503	8.9325	13.354	28.477	2.585	.37422	33.321
270	.1	517	4.5064	8.3775	12.177	26.882	2.411	.36015	31.556
315	.1	507	4.4615	8.3025	12.016	26.662	2.3885	.35829	31.315
	AREAS, Sq. Mi. :		57.193	197.01	410.17	2042.7	16.56	.37548	2857.5

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 461.63 (FT)

ALL HEIGHTS IN FEET. ALL CONTOUR DISTANCES IN MILES.

ALL CONTOURS IN MV/M AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

TABLE II. CONTOURS OF APPLICANT'S JANUARY 1984 PROPOSAL
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 217

AZIMUTH	ERP, KW.	HAAT (FT)	3.16/50%	1/50%	.5/10%	.1/10%	10/10%	100/10%	5.56/10%
0	.5	490	6.9233	12.08	17.88	37.141	3.673	.79413	4.9245
45	.5	231	4.4586	8.2999	12.042	27.865	2.5419	.58856	3.3868
90	.5	548	7.3583	12.906	18.777	38.64	3.8759	.81835	5.3134
135	.5	390	6.1233	10.552	16.205	34.44	3.3111	.74669	4.4457
180	.5	419	6.3908	11.065	16.769	35.307	3.4348	.76545	4.6047
225	.5	591	7.6808	13.515	19.437	39.75	4.038	.83679	5.6359
270	.5	517	7.1258	12.465	18.299	37.839	3.7665	.80532	5.0809
315	.5	507	7.0508	12.323	18.144	37.58	3.7317	.80115	5.0059
AREAS, Sq. Mi. :			141.28	433.93	943.66	4125.7	40.114	1.8773	73.655

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 461.63 (FT)

ALL HEIGHTS IN FEET. ALL CONTOUR DISTANCES IN MILES.

ALL CONTOURS IN MV/M AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

TABLE III. EQUIVALENT HORIZONTAL INTERFERING CONTOUR OF INSTANT PROPOSAL
TABULATION OF TV/FM CONTOUR CALCULATIONS ON CHANNEL 217

AZIMUTH	ERP, KW.	HAAT (FT)	74.9/10%
0	.0025	490	1.0095
45	.0025	231	.74864
90	.0025	548	1.0407
135	.0025	390	.94979
180	.0025	419	.97365
225	.0025	591	1.066
270	.0025	517	1.0236
315	.0025	507	1.0183

AREAS, Sq. Mi. : 3.0371

OVERALL HEIGHT ABOVE AVERAGE TERRAIN = 461.63 (FT)

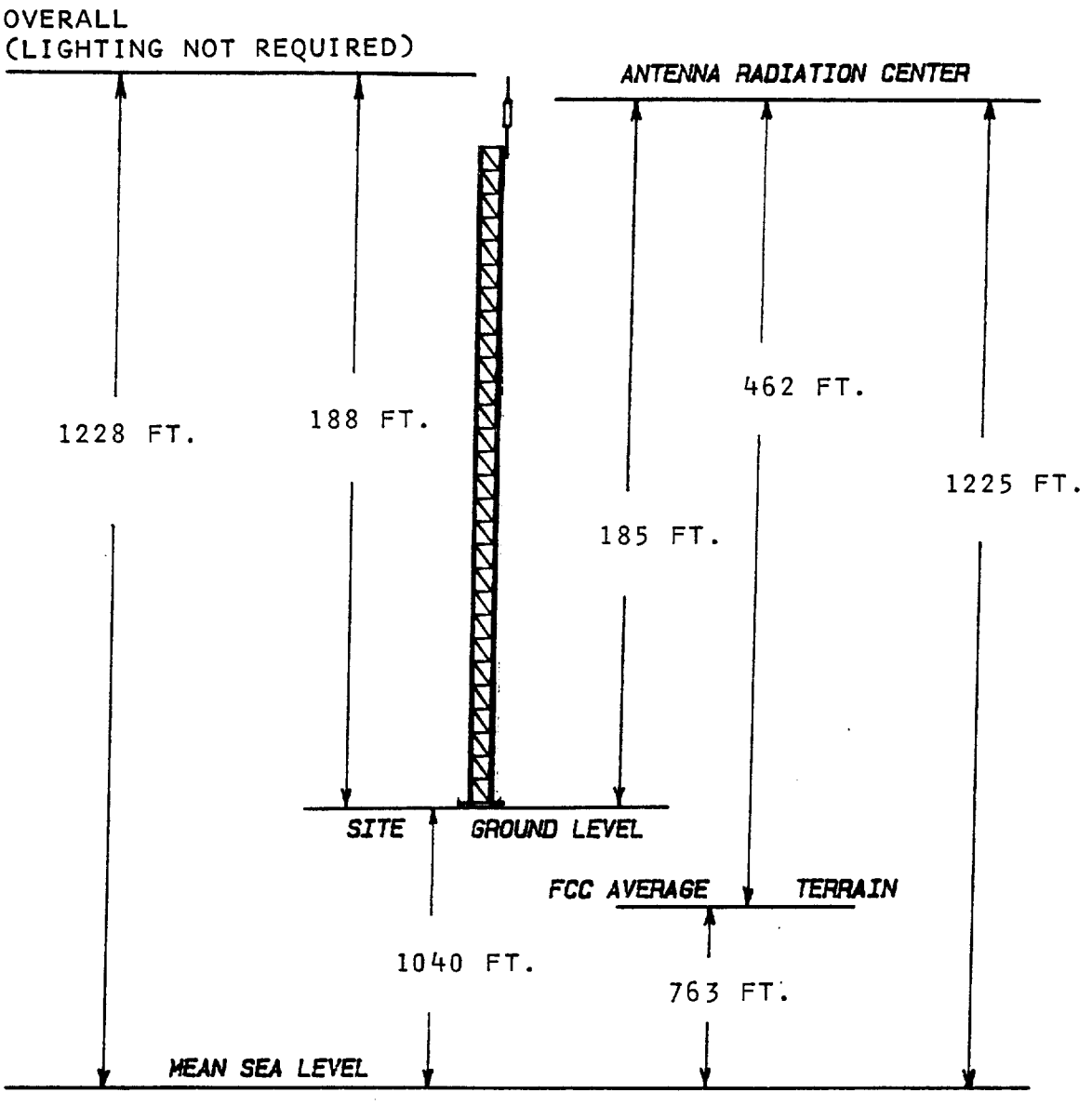
ALL HEIGHTS IN FEET. ALL CONTOUR DISTANCES IN MILES.

ALL CONTOURS IN DBU AS DETERMINED BY BIVARIATE INTERPOLATION
USING VALUES FROM APPROPRIATE FCC F(50,50) AND F(50,10) CURVES.

EXHIBIT E-1

SABLE COMMUNITY BROADCASTING CORPORATION

ANTENNA VERTICAL SKETCH



NOT TO SCALE — DIMENSIONS AS LABELLED

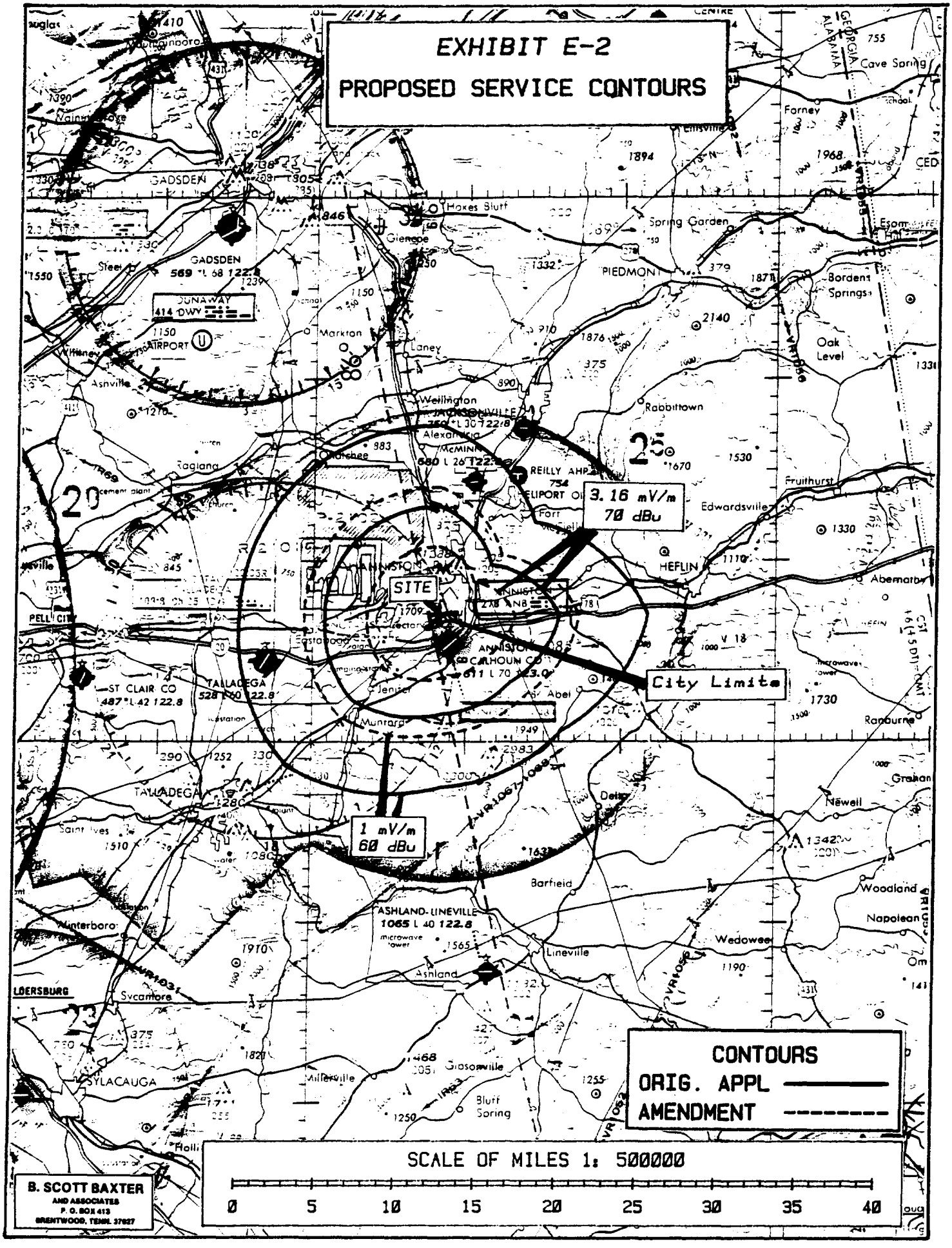


EXHIBIT E-2
PROPOSED SERVICE CONTOURS
3.16 mV/m
70 dBu
1 mV/m
60 dBu
SITE
City Limits
CONTOURS
ORIG. APPL
AMENDMENT
SCALE OF MILES 1: 500000
0 5 10 15 20 25 30 35 40
B. SCOTT BAXTER
AND ASSOCIATES
P. O. BOX 413
BRENTWOOD, TENN. 37027
GADSDEN
569 L 68 122.8
DUNAWAY
414 DWY
AIRPORT
Hokes Bluff
Glencoe
Spring Garden
PIEDMONT
Bordens Springs
Oak Level
Markton
Laney
Ashville
Wellington
Alexandria
McMINN
680 L 26 122.8
REILLY AHP
754
HELIPORT
Rabbittown
Fruithurst
Edwardsville
HEFLIN
Abernathy
Ragland
ANNISTON
ANNISTON
CALHOUN CO
611 L 70 123.0
ST CLAIR CO
487 L 42 122.8
TALLADEGA
528 L 60 122.8
Jenifer
Abel
Munford
Ranburne
TALLADEGA
Saint Ives
Delta
Newell
Barfield
Woodland
Napoleon
ASHLAND-LINEVILLE
1065 L 40 122.8
Winterboro
Wedowee
Lineville
Ashland
Sycamore
SYLACAUGA
Millerville
Gibsonville
Bluff Spring
Holli
Cave Spring
Forney
Ellisville
Esom Hill
Eastaboga
Steel
Whitney
PELL CITY
LOERSBURG
GEORGIA
ALABAMA

EXHIBIT E-3 FIGURE A.
SABLE COMMUNITY BCSTG. CORP.
VICINITY OF SITE AND TV6
INTERFERENCE AREA

OXFORD, ALA.

33085-E7-TF-024

1956
PHOTOREVISED 1983
DMA 3851 III SE—SERIES V844

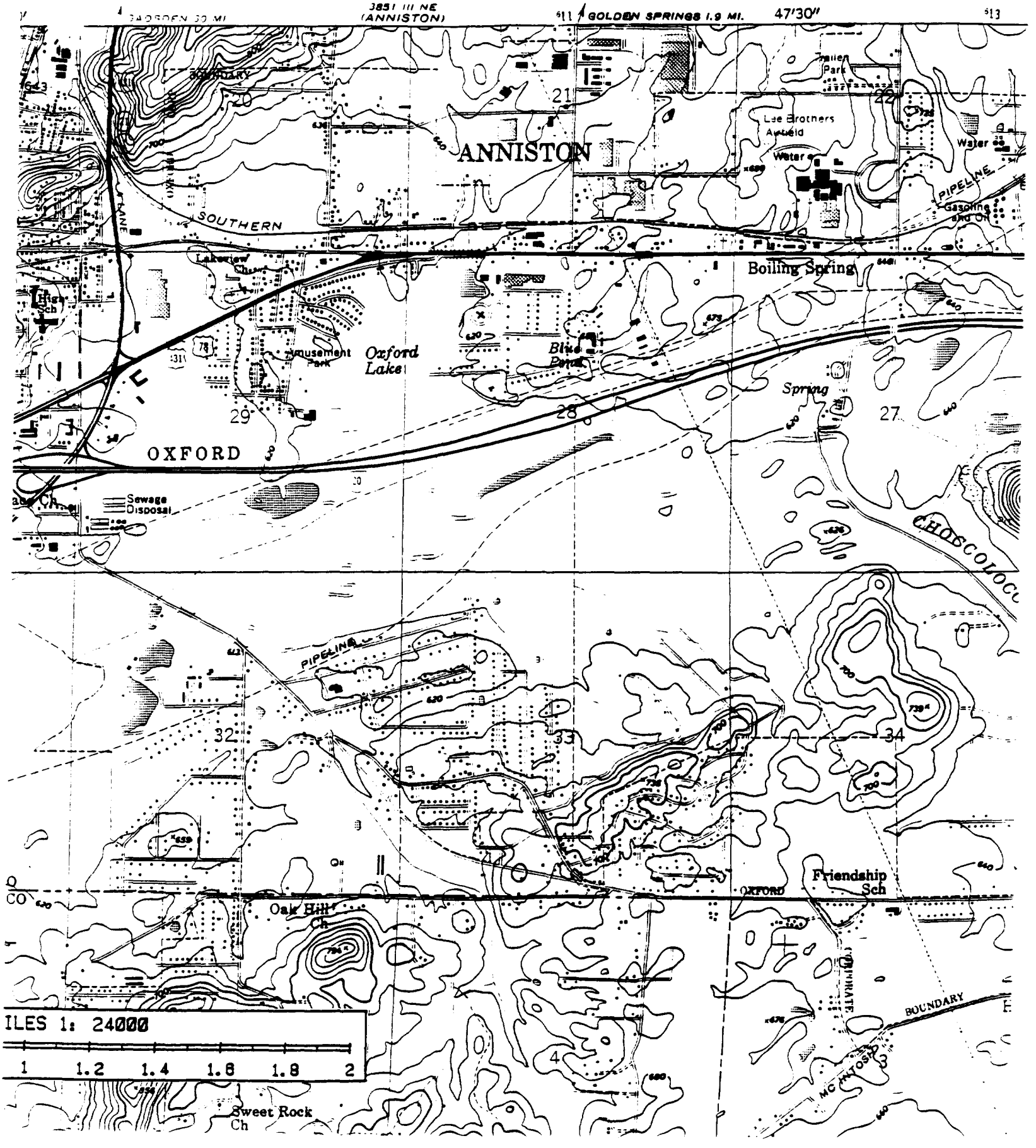
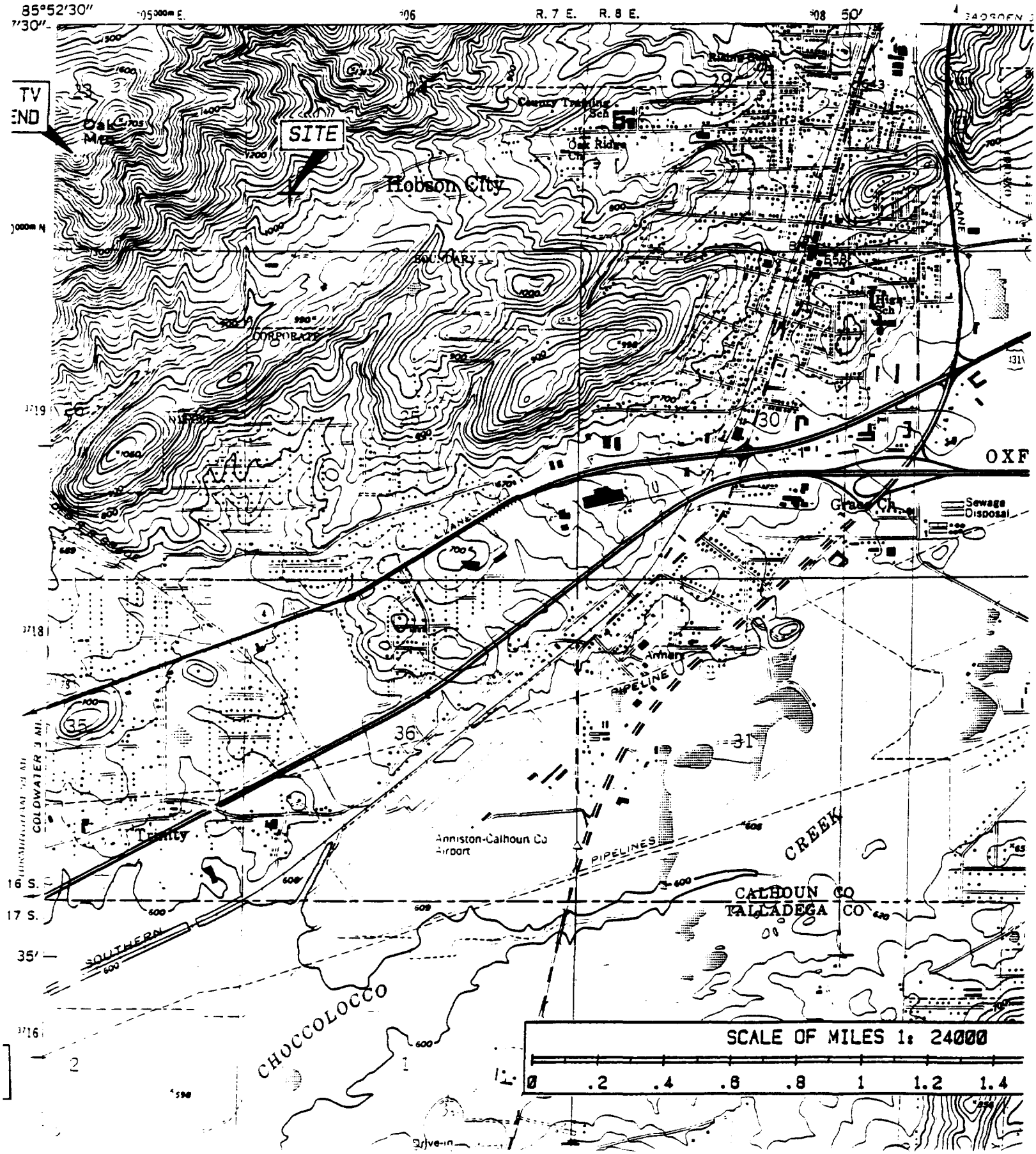
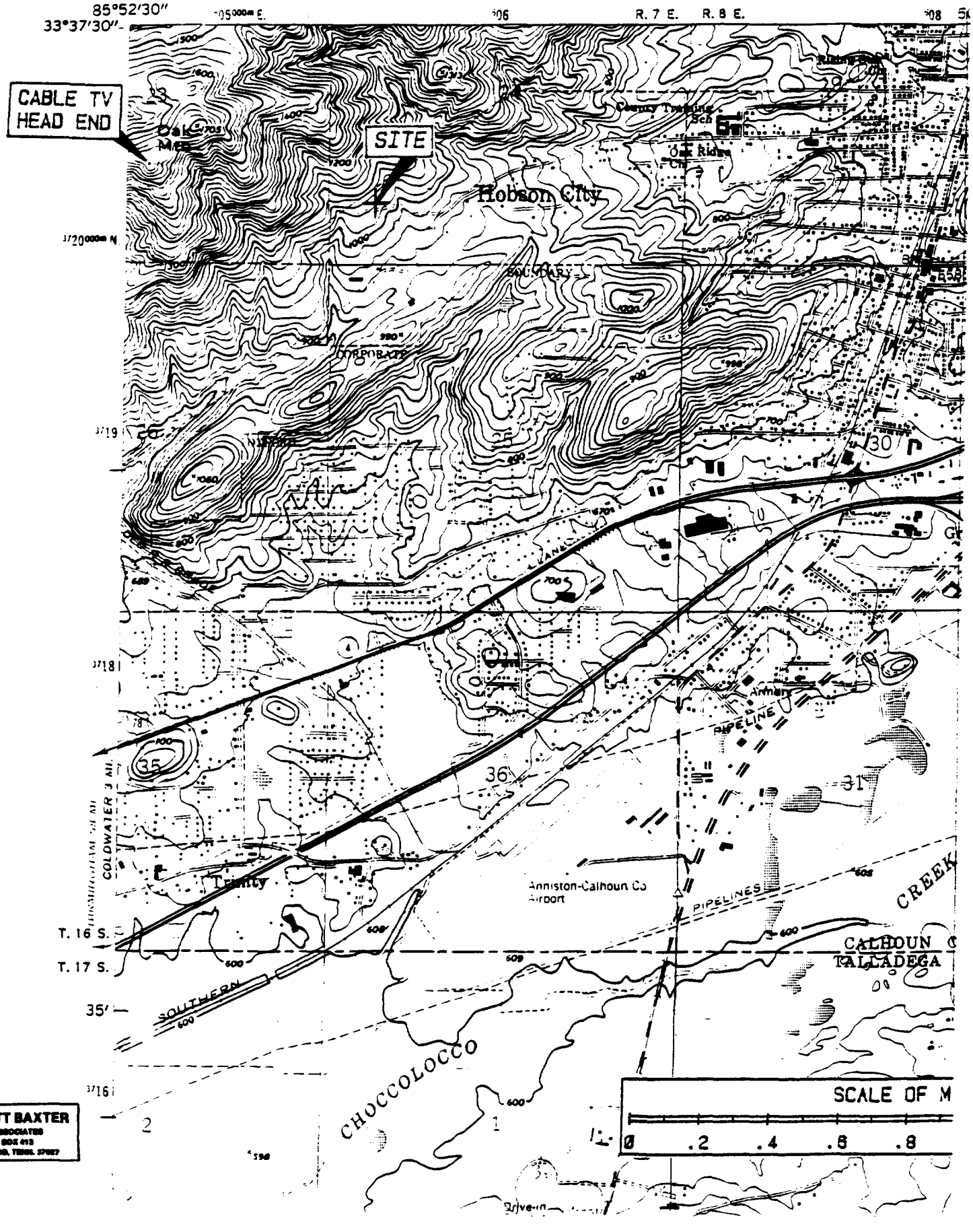


EXHIBIT
SABLE COMM
VICINITY
INTEF

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



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P. O. BOX 413
BRENTWOOD, TENN. 37027

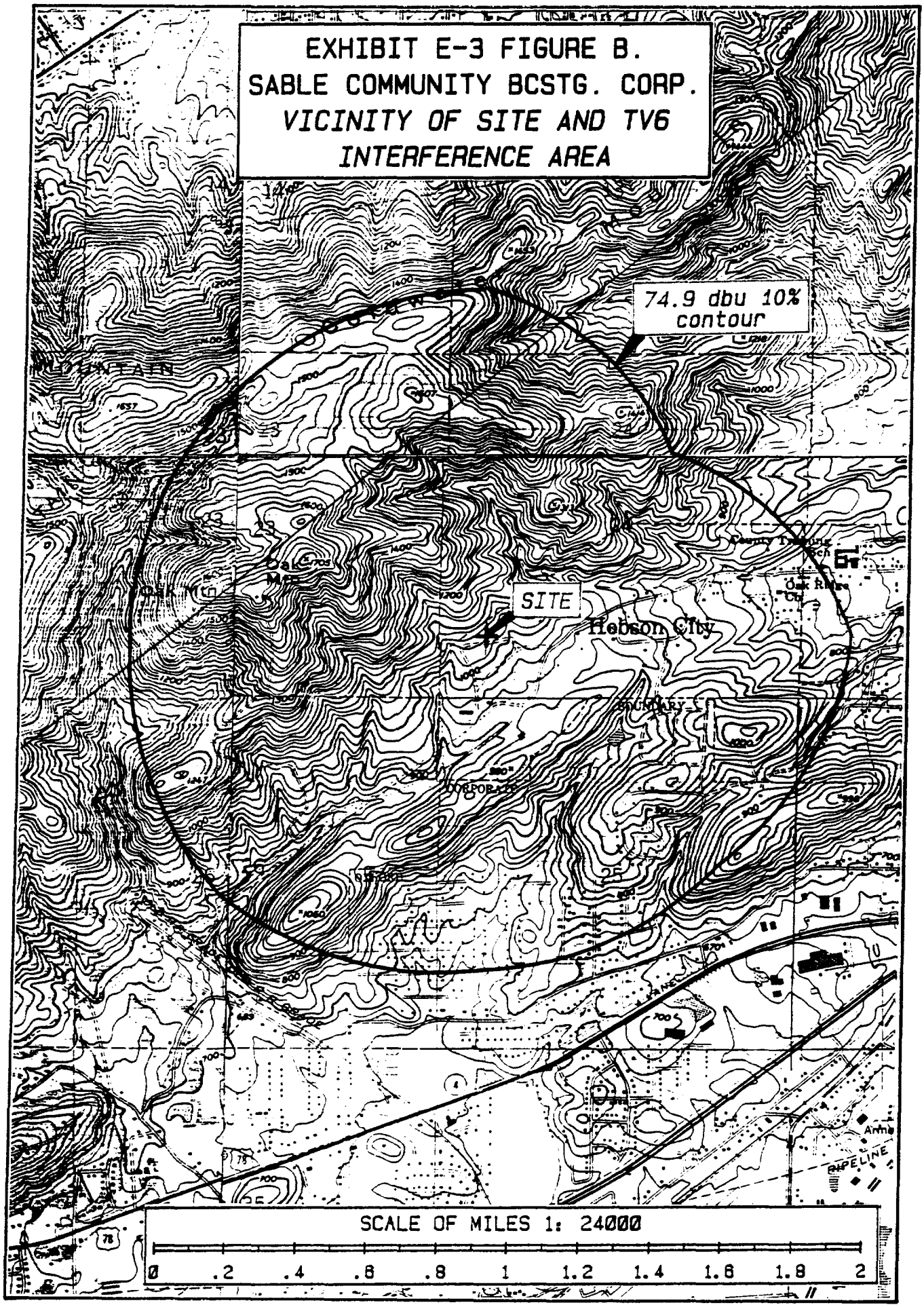
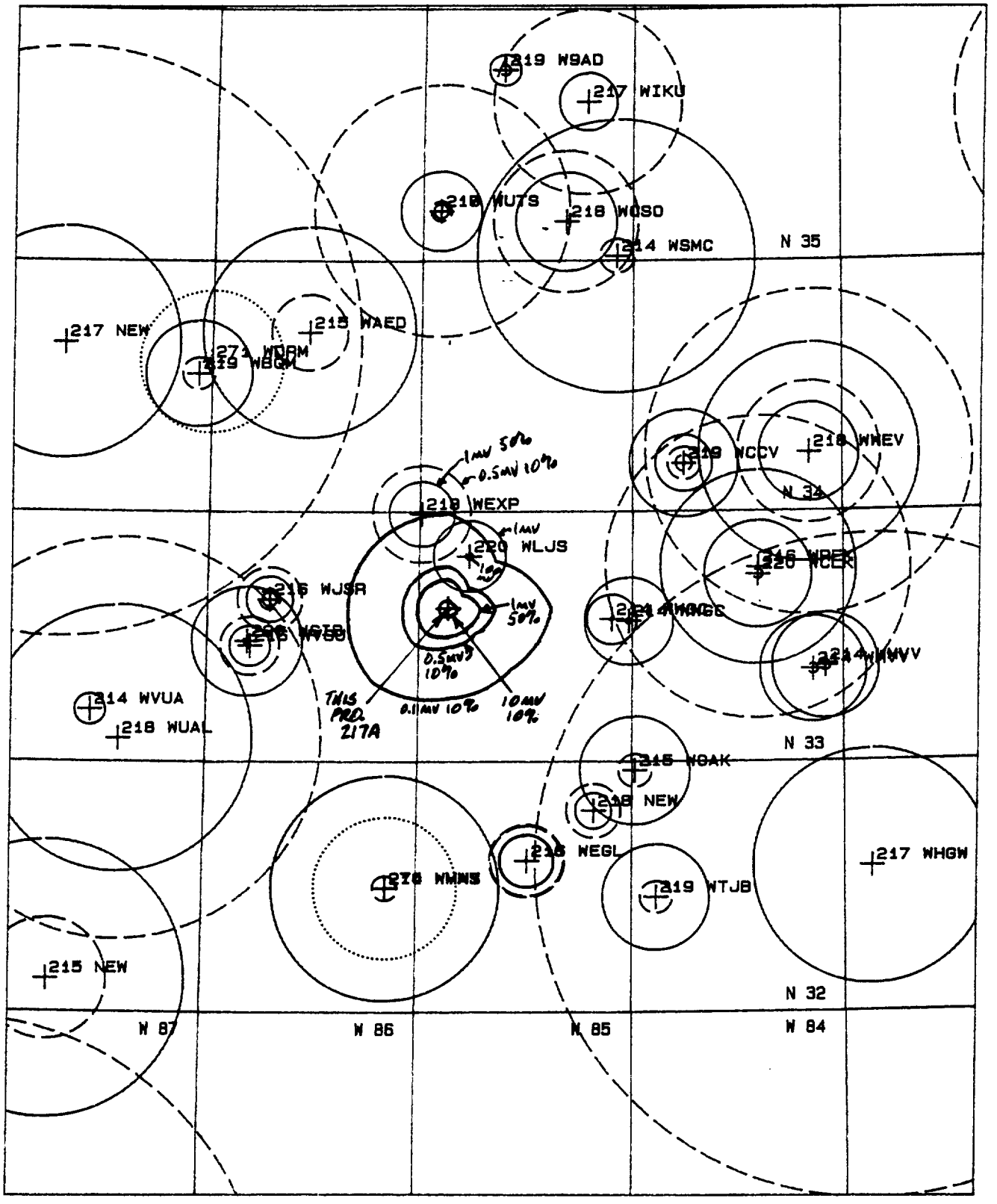


EXHIBIT E-3 FIGURE B.
SABLE COMMUNITY BCSTG. CORP.
VICINITY OF SITE AND TV6
INTERFERENCE AREA
74.9 dbu 10%
contour
SITE
Hobson City
SCALE OF MILES 1: 24000
0 .2 .4 .6 .8 1 1.2 1.4 1.6 1.8 2

EXHIBIT E-4 -- EDUCATIONAL FM ALLOCATION STUDY

HOBSON CITY AL CHANNEL 217A REF. N333703 W855146



SCALE OF MILES 2500000

0 25 50 75 100 125 150 175 200

EXHIBIT E-4 APPENDIX A

IDENTIFICATION OF FACILITIES AND CONTOURS ON ALLOCATION MAP

HOBSON CITY AL

REFERENCE POINT: N LAT 33-37-03 W LNG 85-51-46

EDUCATIONAL FM ALLOCATION STUDY FOR CHANNEL 217 A
(FREQUENCY 91.3 MHZ.)

CHAN	CALL	CITY AND STATE	CL/TYP	MILES	KM.	AZIMUTH	ERP	HAAT(M)	RELEVANT CONTOURS AND DISTANCES	
214C	WVAS	MONTGOMERY AL	C CP	79.263	127.56	192.04	25	186	PC1mv/m=31.036mi.	INTF100mv/m=3.416mi.
214C2	WVAS	MONTGOMERY AL	C2CP	79.294	127.61	192.01	25	186	PC1mv/m=31.036mi.	INTF100mv/m=3.416mi.
214A	WVUA	TUSCALOOSA AL	A CP	101.45	163.26	254.29	.12	43	PC1mv/m=4.278mi.	INTF100mv/m=-.20674mi.
214A	WWGC	CARROLLTON GA	A LI	44.205	71.141	93.905	.95	34	PC1mv/m=6.8625mi.	INTF100mv/m=.38666mi.
214A	WWGC	CARROLLTON GA	A CP	48.88	78.664	94.122	.5	149	PC1mv/m=12.064mi.	INTF100mv/m=.77495mi.
214A	WMVV	MCDONOUGH GA	A CP	103.76	166.98	98.52	3	91	PC1mv/m=14.582mi.	INTF100mv/m=1.3729mi.
214A	WMVV	MCDONOUGH GA	A AP	100.6	161.90	99.367	3	91	PC1mv/m=14.582mi.	INTF100mv/m=1.3729mi.
214C	WSMC	COLLEGEDALE TN	C LI	106.78	171.84	24.613	100	168	PC1mv/m=37.576mi.	INTF100mv/m=4.6611mi.
215C1	NEW	DIXONS MILLS AL	C1AP	149.37	240.38	227.01	100	179	PC1mv/m=38.409mi.	INTF10mv/m=16.759mi.
215C	WAED	HUNTSVILLE AL	C CP	85.226	137.15	333.2	7	296	PC1mv/m=29.026mi.	INTF10mv/m=10.43mi.
215C	WOAK	LAGRANGE GA	C LI	67.784	109.08	131.39	3.4	91	PC1mv/m=15.017mi.	INTF10mv/m=4.5566mi.
215D	WLNK	COLUMBUS MS	D LI	148.3	238.66	267.44	.01	0	PC1mv/m=1.9759mi.	INTF10mv/m=.34983mi.
216A	WEGL	AUBURN AL	A LI	73.232	117.85	162.64	.38	58	PC1mv/m=7.1729mi.	INTF.5mv/m=9.6815mi.
216A	WEGL	AUBURN AL	A CP	73.232	117.85	162.64	.34	64	PC1mv/m=7.3391mi.	INTF.5mv/m=10.026mi.
216A	WVSU	BIRMINGHAM AL	A LI	54.855	88.280	259.22	.12	66	PC1mv/m=5.5366mi.	INTF.5mv/m=8.0452mi.
216D	WJSR	BIRMINGHAM AL	D LI	48.645	78.286	273.04	.01	0	PC1mv/m=1.9759mi.	INTF.5mv/m=2.8177mi.
216A	WJSR	BIRMINGHAM AL	A CP	48.645	78.286	273.04	.23	59	PC1mv/m=6.3464mi.	INTF.5mv/m=8.855mi.
216C	WREK	ATLANTA GA	C LI	84.644	136.22	82.049	40	104	PC1mv/m=26.773mi.	INTF.5mv/m=41.704mi.
217C2	NEW	FLORENCE AL	C2AP	128.72	207.15	305.07	30	183	PC1mv/m=31.917mi.	INTF.1mv/m=81.206mi.
217C	WHIL	MOBILE AL	C LI	241.43	388.54	214.01	100	75	PC1mv/m=28.096mi.	INTF.1mv/m=88.14mi.
217C	WHGW	FORT VALLEY GA	C CP	135.81	218.56	121.38	100	110	PC1mv/m=32.436mi.	INTF.1mv/m=91.929mi.
217C	WBMU	ASHEVILLE NC	C LI	228.41	367.59	52.212	.44	262	PC1mv/m=15.67mi.	INTF.1mv/m=44.506mi.
217A	NEW	HARROGATE TN	A AP	239.54	385.50	30.577	.19	87	PC1mv/m=7.2293mi.	INTF.1mv/m=23.601mi.
217A	WIKU	PIKEVILLE TN	A LI	144.07	231.85	14.525	.1	137	PC1mv/m=7.871mi.	INTF.1mv/m=25.37mi.
217A	WUTS	SEWANEE TN	A CP	109.51	176.23	358.44	.2	201	PC1mv/m=11.055mi.	INTF.1mv/m=34.619mi.
218C	WEXP	GADSDEN AL	C LI	26.961	43.389	344.14	3.5	23	PC1mv/m=8.9349mi.	INTF.5mv/m=13.393mi.
218A	NEW	LANGDALE AL	A CP	68.647	110.47	144.68	.38	26	PC1mv/m=4.9476mi.	INTF.5mv/m=7.4256mi.
218C	WUAL	TUSCALOOSA AL	C LI	96.637	155.52	248.43	100	158	PC1mv/m=36.812mi.	INTF.5mv/m=55.528mi.
218A	WWEV	CUMMING GA	A LI	106.59	171.53	65.918	.22	277	PC1mv/m=13.639mi.	INTF.5mv/m=19.544mi.
218C	WWEV	CUMMING GA	C CP	106.59	171.53	65.918	8.9	294	PC1mv/m=30.188mi.	INTF.5mv/m=44.749mi.
218D	WUTS	SEWANEE TN	D LI	109.51	176.23	358.44	.01	0	PC1mv/m=1.9759mi.	INTF.5mv/m=2.8177mi.
218A	WCSO	SIGNAL MOUNTATN	A LI	110.89	178.46	16.071	.2	290	PC1mv/m=13.649mi.	INTF.5mv/m=19.536mi.
219A	WBQM	DECATUR AL	A LI	94.346	151.83	313.49	3	91	PC1mv/m=14.582mi.	INTF10mv/m=4.4172mi.
219A	WCCV	CARTERSVILLE GA	A LI	74.835	120.43	57.562	.1	134	PC1mv/m=7.7972mi.	INTF10mv/m=2.2426mi.
219A	WCCV	CARTERSVILLE GA	A CP	74.835	120.43	57.562	.91	164	PC1mv/m=14.834mi.	INTF10mv/m=4.4926mi.
219C	WTJB	COLUMBUS GA	C CP	98.002	157.71	144.5	3	91	PC1mv/m=14.582mi.	INTF10mv/m=4.4172mi.
219D	W9AD	SPARTA, ETC. TN	D LI	148.75	239.38	5.2843	.2	0	PC1mv/m=4.214mi.	INTF10mv/m=1.4076mi.
220A	WGIB	BIRMINGHAM AL	A LI	55.416	89.183	260.65	.6	207	PC1mv/m=15.056mi.	INTF100mv/m=.92802mi.
220A	WLJS	JACKSONVILLE AL	A LI	15.381	24.753	21.679	3	44	PC1mv/m=9.7636mi.	INTF100mv/m=.95353mi.