

Section V-B - FM BROADCAST ENGINEERING DATA	FOR COMMISSION USE ONLY File No. _____ ASB Referral Date _____ Referred by _____
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Name of Applicant
 Valentine Communications, Inc.

Call letters (if issued) New FM	Is this application being filed in response to a window? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If Yes, specify closing date: <u>February 28, 1991</u>
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Purpose of Application: (check appropriate boxes)

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

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

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

File Number(s) _____

1. Allocation:

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

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

Off SR 602/34; 1 km west of SR 6.

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

Latitude	33	°	54	'	27	"	Longitude	81	°	14	'	01	"
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3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? Yes No

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

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 2)

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

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

Exhibit No. I

Date February 21, 1991 Office where filed Southern Region

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

	Landing Area	Distance (km)	Bearing (degrees True)
(a)	<u>none found</u>	_____	_____
(b)	_____	_____	_____

7. (a) Elevation: *(to the nearest meter)* Metric elevations derived from the English.

- (1) of site above mean sea level; 500' 152.4 meters
- (2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 200' 61.0 meters
- (3) of the top of supporting structure above mean sea level [(a)(1) + (a)(2)] 700' 213.4 meters

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

- (1) above ground 189' 57.7 meters (H)
- 189' 57.7 meters (V)
- (2) above mean sea level [(a)(1) + (b)(1)] 689' 210.1 meters (H)
- 689' 210.1 meters (V)
- (3) above average terrain _____ 100 meters (H)
- _____ 100 meters (V)

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

Exhibit No. II

9. Effective Radiated Power:

(a) ERP in the horizontal plane 3 kw (H*) 3 kw (V*)

(b) Is beam tilt proposed? Yes No

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

Exhibit No.

_____ kw (H*) _____ kw (V*)

*Polarization

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 3)

10. Is a directional antenna proposed?

Yes No

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

Exhibit No.

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

Yes No

If No, attach as an Exhibit a request for waiver and justification therefor, including amounts and percentages of population and area that will not receive 3.16 mV/m service.

Exhibit No.

12. Will the main studio be within the protected 3.16 mV/m field strength contour of this proposal?

Yes No

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

Exhibit No.

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

Yes No

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

Yes No

(c) If the answer to (b) is Yes, attach as an Exhibit a justification, including a summary of previous waivers. Allocation PRM prior to October 2, 1989.

Exhibit No.
III

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

Exhibit No.
DNA

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

Exhibit No.
DNA

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

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

Yes No

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

Exhibit No.

Any interference attributed to this proposal will be corrected by applicant.

15. Attach as an Exhibit a 75 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction V. The map must further clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers.

Exhibit No.
IV

Full-size quadrangle map omitted: two axis shown on site map.

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

Exhibit No.
V

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

(b) the 3.18 mV/m and 1 mV/m predicted contours; and

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

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

Area 1853 sq. km. Population 269636 (1980 MARF data, US Census Bureau)

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

Exhibit No.

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

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

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

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

Linearly interpolated 30-second database 75 minute topographic map

(Source: NGDC (SEE EXHIBIT VI))

Other *(briefly summarize)*

SECTION V-B - FM BROADCAST ENGINEERING DATA (Page 5)

Radial bearing (degrees True)	Height of radiation center above average elevation of radial from 3 to 16 km (meters)	Predicted Distances	
		To the 3.16 mV/m contour (kilometers)	To the 1 mV/m contour (kilometers)
* same	as 90° radial		
0			
45			
90			
135		SEE EXHIBIT VI	
180			
225			
270			
315			

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

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

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? Yes No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

If No, explain briefly why not.

Proposed site not located in an environmentally sensitive area per §1.1307; RFR within ANSI guidelines per OST Bulletin No 65.

CERTIFICATION

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

Name (Typed or Printed) Dwight R. Magnuson	Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer
Signature 	Address (Include ZIP Code) P.O. Box 2761 30 Market Square Mall Knoxville, TN 37901
Date February 21, 1991	Telephone No. (Include Area Code) (615) 525-6358

EXHIBIT I

DO NOT REMOVE CARBONS

Form Approved OMB No 2120-0001

<p style="margin: 0;">NOTICE OF PROPOSED CONSTRUCTION OR ALTERATION</p> <p style="font-size: small; margin: 0;">US Department of Transportation Federal Aviation Administration</p>	<p style="font-size: small; margin: 0;">Aeronautical Study Number</p>
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1. Nature of Proposal			2. Complete Description of Structure		
A Type <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Alteration	B Class <input checked="" type="checkbox"/> Permanent <input type="checkbox"/> Temporary (Duration _____ months)	C Work Schedule Dates Beginning <u>upon FCC grant</u> End _____	A Include effective radiated power and assigned frequency of all existing, proposed or modified AM, FM, or TV broadcast stations utilizing this structure. B Include size and configuration of power transmission lines and their supporting towers in the vicinity of FAA facilities and public airports. C Include information showing site orientation, dimensions, and construction materials of the proposed structure.		

3A. Name and address of individual, company, corporation, etc. proposing the construction or alteration. (Number, Street, City, State and Zip Code) <u>803</u> <u>254-0458</u> <small>area code Telephone Number</small> <div style="border: 1px solid black; padding: 5px;"> Valentine Communications, Inc. c/o Terry Hicks 143 Stoneridge Drive Columbia, SC 29210 </div>	Steel tower to support FM antenna operating on 95.3 MHz with 3 kw ERP. 3-bay antenna with center-line located @ 689' AMSL.
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B. Name, address and telephone number of proponent's representative if different than 3 above. Dwight R. Magnuson, P.E. P.O. Box 2761 30 Market Square Mall Knoxville, TN 37901 615/525-6358	<i>(if more space is required, continue on a separate sheet.)</i>
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4. Location of Structure			5. Height and Elevation (Complete to the nearest foot)		
A. Coordinates (To nearest second) 33° 54' 27" <small>Latitude</small> 81° 14' 01" <small>Longitude</small>	B. Nearest City or Town, and State Red Bank, SC (1) Distance to 4B 2 Miles (2) Direction to 4B N	C. Name of nearest airport, heliport, flight park, or seaplane base Columbia (1) Distance from structure to nearest point of nearest runway 6 SM (2) Direction from structure to airport ENE	A. Elevation of site above mean sea level 500	B. Height of Structure including all appurtenances and lighting (if any) above ground, or water if so situated 200	C. Overall height above mean sea level (A + B) 700

D. Description of location of site with respect to highways, streets, airports, prominent terrain features, existing structures, etc. Attach a U.S. Geological Survey quadrangle map or equivalent showing the relationship of construction site to nearest airport(s) <i>(if more space is required, continue on a separate sheet of paper and attach to this notice.)</i> Off SR 602/34; approx. 1/2 mile west of SR 6. See attached map.
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Notice is required by Part 77 of the Federal Aviation Regulations (14 C.F.R. Part 77) pursuant to Section 1101 of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1101). Persons who knowingly and willingly violate the Notice requirements of Part 77 are subject to a fine (criminal penalty) of not more than \$500 for the first offense and not more than \$2,000 for subsequent offenses, pursuant to Section 902(a) of the Federal Aviation Act of 1958, as amended (49 U.S.C. 1472(a)).

I HEREBY CERTIFY that all of the above statements made by me are true, complete, and correct to the best of my knowledge. In addition, I agree to obstruction mark and/or light the structure in accordance with established marking & lighting standards if necessary.

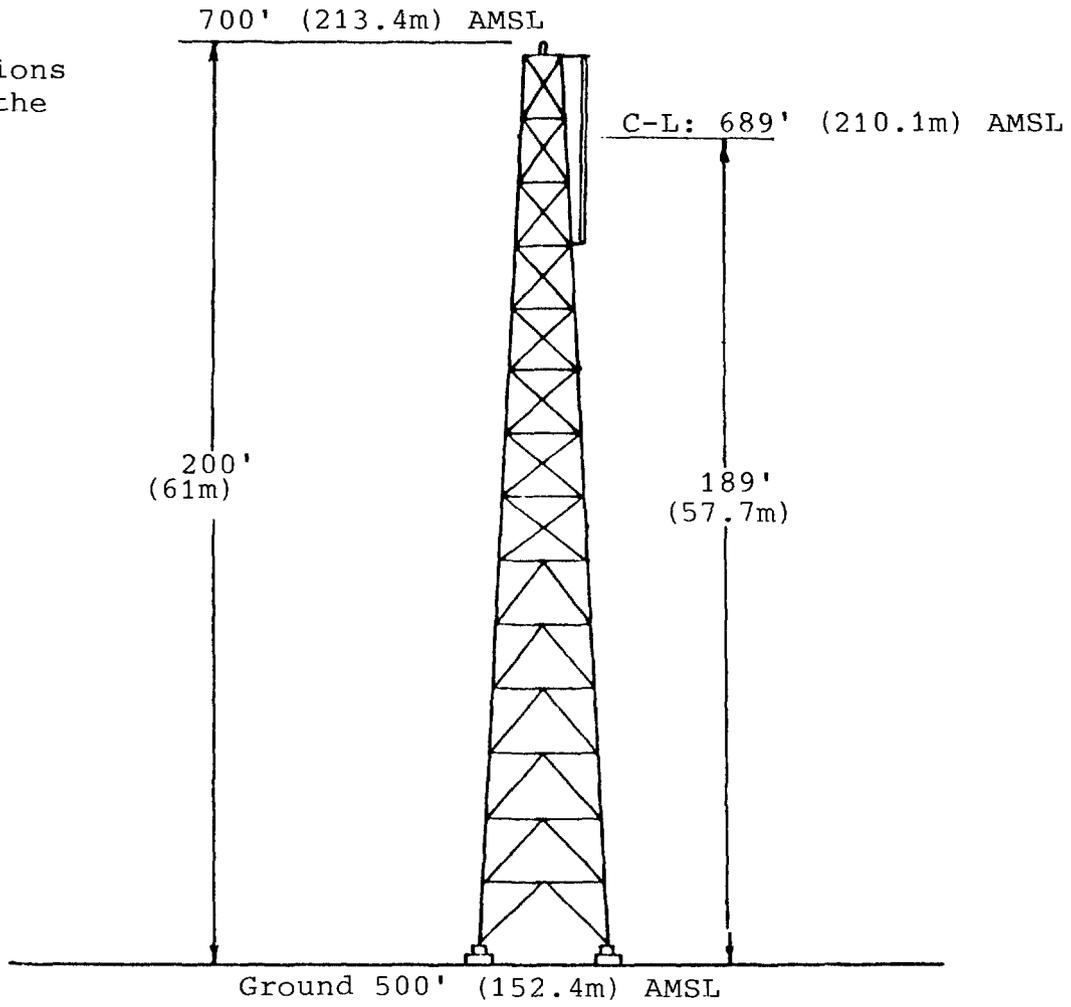
Date Feb 21, 1991	Typed Name/Title of Person Filing Notice Dwight R. Magnuson, P.E.	Signature
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FOR FAA USE ONLY		<i>FAA will either return or destroy this form.</i>
The Proposal: <input type="checkbox"/> Does not require a notice to FAA. <input type="checkbox"/> Is not identified as an obstruction under any standard of FAR, Part 77, Subpart C, and would not be a hazard to air navigation. <input type="checkbox"/> Is identified as an obstruction under the standards of FAR, Part 77, Subpart C, but would not be a hazard to air navigation. <input type="checkbox"/> Should be obstruction marked, <input type="checkbox"/> marked, <input type="checkbox"/> lighted per FAA Advisory Circular 707480-1, Chapter (B) <input type="checkbox"/> Obstruction marking and lighting are not necessary.	Supplemental Notice of Construction FAA Form 7460-2 is required and <input type="checkbox"/> At least 48 hours before the start of construction. <input type="checkbox"/> Within five days after the construction reaches its greatest height. This determination expires on _____ (a) extended, revised or terminated by the issuing office. (b) the construction is subject to the licensing authority of the FCC. If an application for a construction permit is made to the FCC or if the case the determination expires on the date prescribed by the FCC for denial, the date the FCC denies the application.	NOTE: Request for extension of the effective period of this determination must be filed with the issuing office at least 15 days prior to the expiration date. If the structure is subject to the licensing authority of the FCC, Agency.
Remarks:		

EXHIBIT II

VERTICAL PLAN

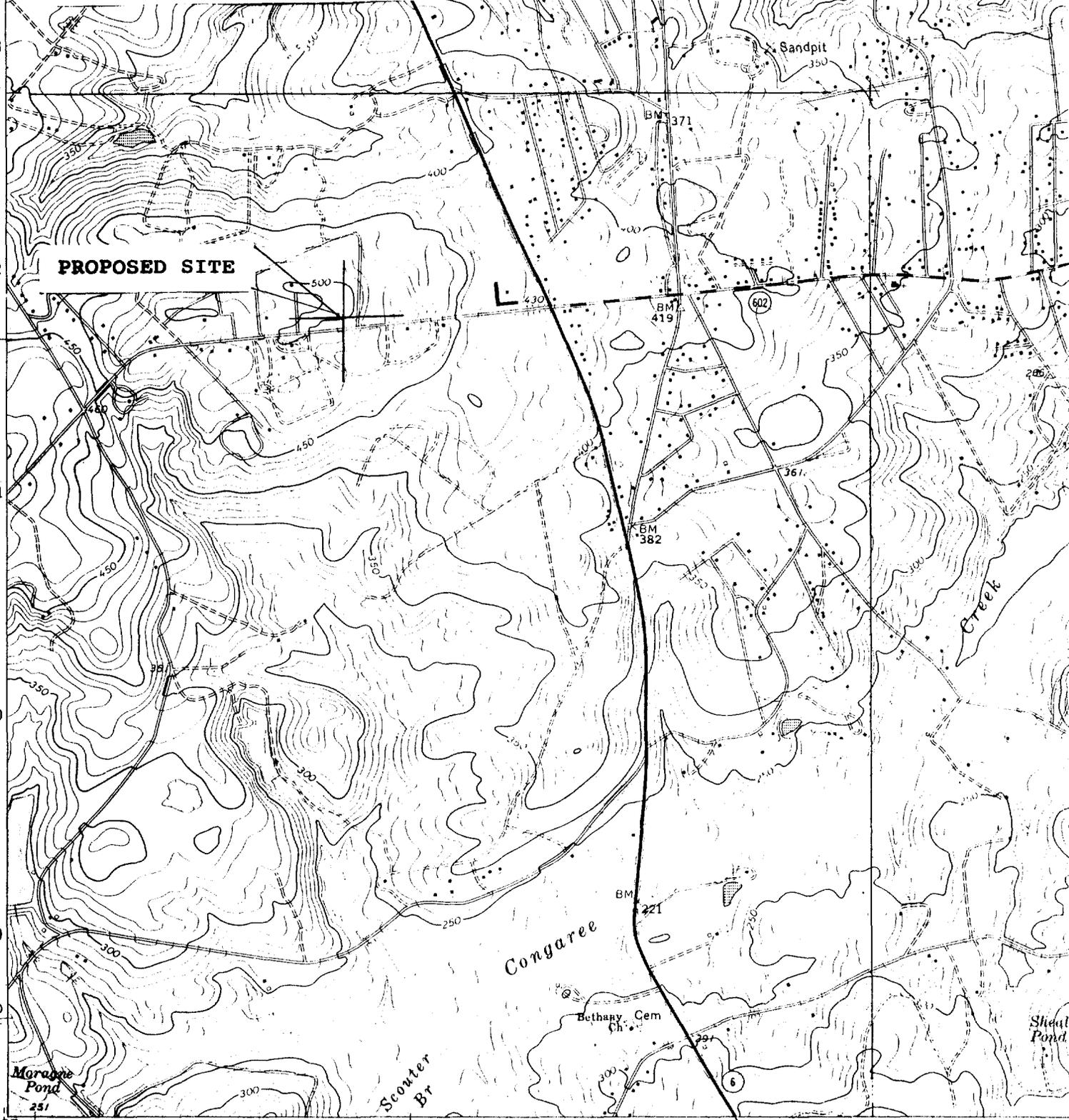
Metric Elevations
derived from the
English.



LEXINGTON QUADRANGLE
SOUTH CAROLINA - LEXINGTON CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

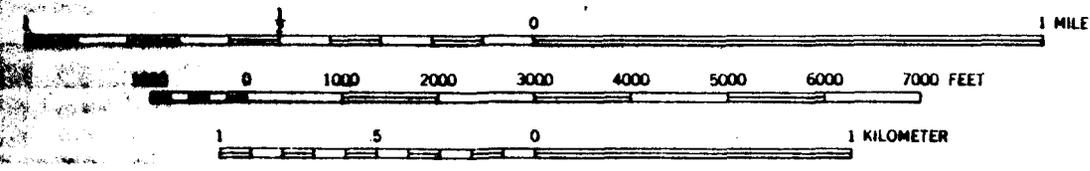
3753
55'
3752
3751
3750
3749
320 000
FEET
33° 52' 30"
81° 15' 47"

PROPOSED SITE



478 1930 000 FEET 479 EDMUND 1.2 MI. SWANSEA 13 MI. 12'30" 481

SCALE 1:24000 EXHIBIT IV



T 1:62 500
1751 IV

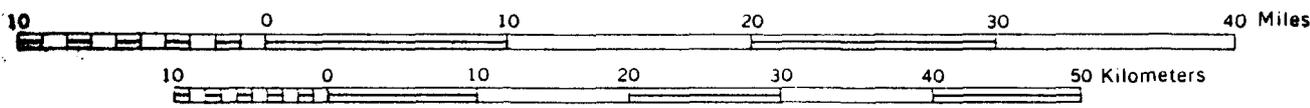
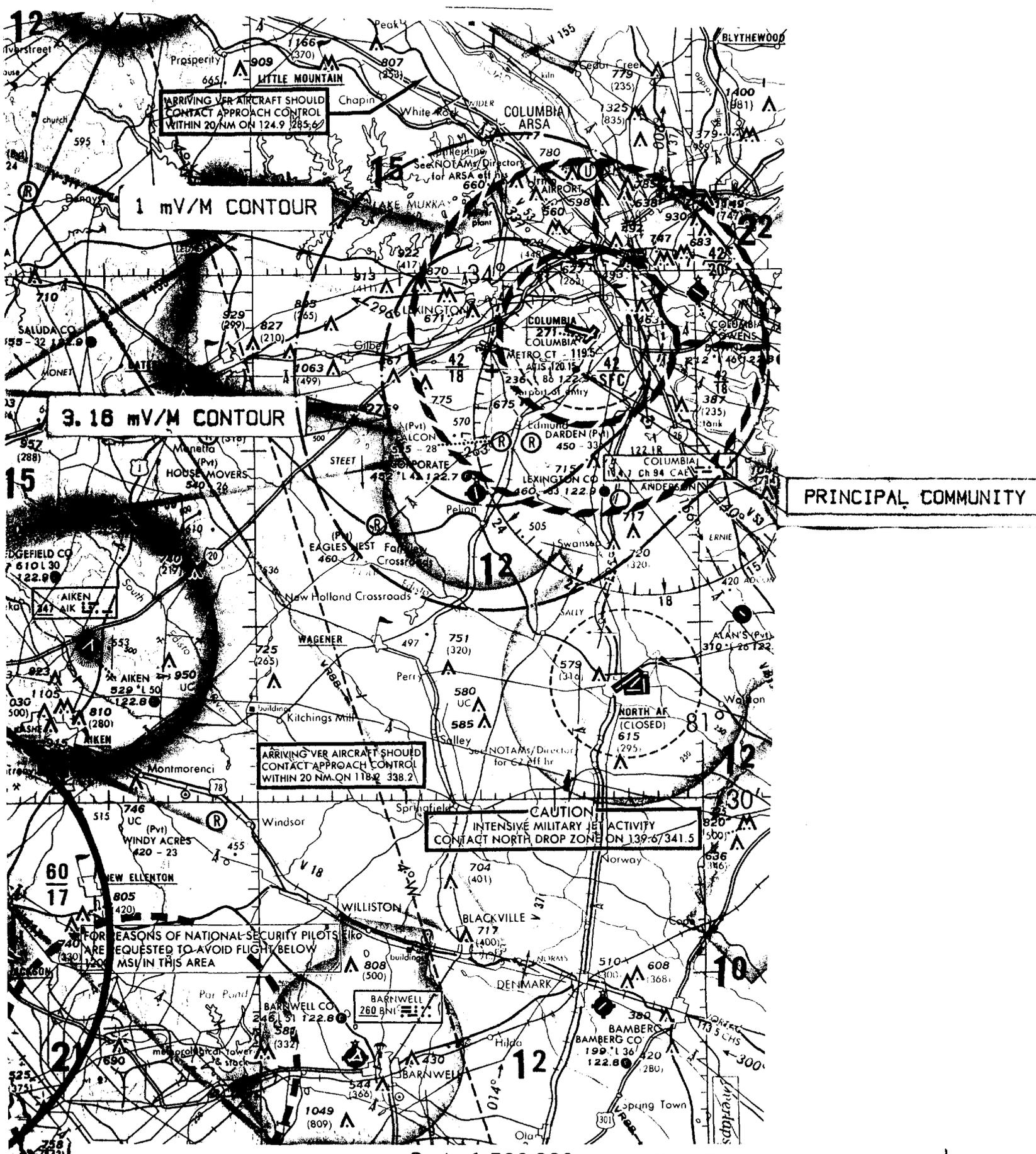


EXHIBIT VI

DISTANCES TO CONTOURS (Kilometers):

Frequency: 95.3000 MHz

F(50,50) Curves Number of Contours: 2

AZ (degs)	HAAT (m)	ERP (dBk)	CONTOUR LEVELS (dBu): 70.0 60.0	
.0	101	4.77	13.7	24.5
45.0	116	4.77	14.7	26.1
90.0	143	4.77	16.3	28.6
135.0	96	4.77	13.4	23.9
180.0	104	4.77	14.0	24.9
225.0	87	4.77	12.8	22.8
270.0	71	4.77	11.5	20.5
315.0	82	4.77	12.4	22.1

30 Second Terrain Database

Starting point coordinates: 33 54 27 81 14 1

Maximum distance: 16.0 km Distance increment: .100 km

Azimuth	Endpoint Coordinates		3 - 16 km Average Elevation	Total Path Delta H
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.0	34.0514	81.2336	109.5 meters	28.0 meters
45.0	34.0092	81.1108	93.7	29.0
90.0	33.9074	81.0602	67.1	62.0
135.0	33.8057	81.1111	114.3	56.0
180.0	33.7636	81.2336	105.8	60.0
225.0	33.8057	81.3561	122.9	51.0
270.0	33.9074	81.4070	139.1	36.0
315.0	34.0092	81.3564	128.1	43.0

Average of 8 standard radials: 110.1 meters