

the tower. Appropriate filters will be installed where necessary to prevent interference or intermodulation products. The applicant will be responsible for the installation of any filters, or for taking any other action required to prevent harmful interference resulting from the operation of the proposed facilities to any other broadcast or communication facilities or receivers at or in the immediate vicinity of the proposed site, particularly within the 115 dbu free space contour which is 247 meters from the antenna, authorized or in use prior to the date that the facilities requested herein are authorized. See Fig. 2.

IV. FAA NOTIFICATION.

As it is proposed to use an existing structure without extending its height, FAA Notification is not required according to FAA Reg 77.13 or by FCC Reg 17.7. The FAA was Notified when the structure was initially proposed in 1962, and again when an antenna was installed on the tower increasing the overall height in 1987. The FAA assigned Airspace Study Number 87-ACE-0586-OE to the case. The overall height of the structure is 333 feet, and the antenna will be at 314 feet on the tower.

V. RETRIEVAL OF TERRAIN DATA.

Terrain profile data for the facilities proposed herein was retrieved by computer using the NGDC 30 second database.

VI. COMPUTATION OF PROPOSED CONTOURS.

Distances to the calculated proposed field intensity contours were computed in accordance with the procedure set forth in Paragraph 73.313(c) of the FM Technical Standards, using Fig. 1 of §73.333 for interference free and Fig. 1a of §73.333 for interfering contours, except contours under 10 miles or 15 km were calculated using Fig. 1, and contours under 1 mile or 1.5 km were calculated assuming free space propagation. The terrain

roughness factor has not been utilized. There is no terrain shadowing to the City of License, Greenfield, Missouri.

VII. OPERATING POWER.

Until being Evicted from its presently authorized site, the station was operating under Automatic Program Test Authority pursuant to Construction Permit BPH-870831IB. The Construction Permit initially authorized an ERP of 1.3 KW, but the station was one of those which was authorized to automatically increase power to the equivalent of 6 KW at 100 m. HAAT, which in the case of the facilities authorized in permit BPH-870831IB is 2.6 KW ERP. A few days before being notified that operations had to be discontinued at the presently authorized site, the station increased its power to 2.6 KW ERP pursuant to the authorization to automatically increase power, but because of the eviction notice and having to shut down, the FCC Form 302 for the increased power operation has not been filed.

The policy regarding Special Temporary Authority requires that the 1 mv/m contour of the STA facilities cannot extend beyond the authorized 1 mv/m contour in any direction. Because of the situation explained in the last paragraph, however, some confusion exists as to which 1 mv/m it is which cannot be extended, and the permittee prays the interpretation that the 1 mv/m contour resulting from operation at a power of 2.6 KW from the site authorized in permit BPH-870831IB be used, so that STA operation at a power sufficient to provide reasonable service will be possible. 1/

1/. If the 2.6 KW 1 mv/m contour from the presently authorized site is considered to be the contour which cannot be extended, the STA power from the site proposed herein will be 395 watts. If the 1.3 KW 1 mv/m contour is interpreted to be the contour which cannot be extended, then the STA power will be 155 watts.

VIII. PROPOSED CONTOURS.

A. SERVICE CONTOURS for STA OPERATION.

Service contours based on FCC F(50,50) curves

Distance to Contour

Title: KXBR STA
 Radiation Center AMSL 463.9 Meters 1522.0 Feet
 Radiation Center HAAT 137.1 Meters 449.9 Feet
 Based on 30 Second Terrain Data: 3.0-16.0 Km.
 Latitude: 37-18-18
 Longitude: 93-41-52
 0.395 KW ERP

True Radial Bearing	Average Elevation	Radiation Center Height Above Average Terrain	Effective Radiated Power		Distance to Contour	
			kW	dBk	70.0 dBu F(50,50)	60.0 dBu F(50,50)
Degrees	Meters	Meters	kW	dBk	km	km
0.00	315.7	147.3	0.395	-4.030	9.94	17.85
45.00	321.7	141.3	0.395	-4.030	9.72	17.44
74.34*	321.9	141.1	0.395	-4.030	9.72	17.42
90.00	330.3	132.7	0.395	-4.030	9.41	16.83
122.04*	326.2	136.8	0.395	-4.030	9.56	17.13
135.00	343.7	119.3	0.395	-4.030	8.94	15.87
145.77*	359.7	103.3	0.395	-4.030	8.32	14.68
160.00*	349.9	113.1	0.395	-4.030	8.71	15.42
172.10*	333.6	129.4	0.395	-4.030	9.29	16.60
180.00	334.6	128.4	0.395	-4.030	9.26	16.52
184.00*	331.7	131.3	0.395	-4.030	9.36	16.73
207.99*	343.1	119.9	0.395	-4.030	8.96	15.92
225.00	338.4	124.6	0.395	-4.030	9.12	16.25
240.31*	339.1	123.9	0.395	-4.030	9.10	16.20
270.00	327.0	136.0	0.395	-4.030	9.53	17.07
284.67*	317.1	145.9	0.395	-4.030	9.89	17.76
315.00	302.8	160.2	0.395	-4.030	10.41	18.68

Average (8 directions):
 326.8 137.1

*=Radial not Included in Average

B. SERVICE CONTOURS for PRESENT AUTHORIZATION.

Service contours based on FCC F(50,50) curves

Distance to Contour

Title: KXBR (CP) Program Test Authority Latitude: 37-22-19
 Radiation Center AMSL 452.8 Meters 1485.5 Feet Longitude: 93-42-33
 Radiation Center HAAT 141.0 Meters 462.6 Feet
 Based on 30 Second Terrain Data: 3.0-16.0 Km.

True Radial Bearing	Average Elevation	Radiation Center Height Above Average Terrain	Effective		Distance to Contour	
			Radiated Power		70.0 dBu F(50,50)	60.0 dBu F(50,50)
Degrees	Meters	Meters	kW	dBk	km	km
0.00	294.5	158.3	2.600	4.150	16.61	28.66
0.00	294.5	158.3	1.300	1.139	13.77	24.51
45.00	301.6	151.2	2.600	4.150	16.15	28.06
45.00	301.6	151.2	1.300	1.139	13.42	24.00
90.00	311.5	141.3	2.600	4.150	15.50	27.24
90.00	311.5	141.3	1.300	1.139	12.94	23.28
135.00	331.1	121.7	2.600	4.150	14.31	25.60
135.00	331.1	121.7	1.300	1.139	12.01	21.81
153.50*	339.3	113.4	2.600	4.150	13.83	24.86
153.50	339.3	113.4	1.300	1.139	11.63	21.12
164.00*	350.8	102.0	2.600	4.150	13.11	23.67
164.00	350.8	102.0	1.300	1.139	11.05	20.01
172.10*	345.8	106.9	2.600	4.150	13.42	24.20
172.10	345.8	106.9	1.300	1.139	11.31	20.50
180.00	330.1	122.6	2.600	4.150	14.36	25.68
180.00	330.1	122.6	1.300	1.139	12.05	21.88
198.30*	325.9	126.9	2.600	4.150	14.61	26.03
198.30	325.9	126.9	1.300	1.139	12.25	22.20
225.00	322.1	130.6	2.600	4.150	14.83	26.34
225.00	322.1	120.6	1.300	1.139	12.42	22.48
270.00	310.7	142.0	2.600	4.150	15.55	27.30
270.00	310.7	142.0	1.300	1.139	12.97	23.34
315.00	292.5	160.3	2.600	4.150	16.73	28.83
315.00	292.5	160.3	1.300	1.139	13.87	24.65

*=Radial not Included in Average

IX. ABSENCE OF INTERFERENCE SHOWING.

A. SPACING CONSIDERATIONS.

The proposed operation meets the separation standards of
 F C C Reg. §73.207, for a full power station with two exceptions:

FCC Database 900328

Call City of License	Auth Licensee Name	St FCC File No.	Chan Freq	ERP-kW EAH-m	Latitude Longitude	Az-to -from	Dist (km)	Req (km)
VACANT			227C2		36-26-40	200.2	101.76	106
Seligman	MO		93.3		94-05-30	20.0	-4.24	SHORT

Site Restricted 16.2 km Southwest-Effective 5-7-90-Reserved for KJEMFM per D89-7

NEW APP	Ashgrove, Inc.		281A	3.00	37-15-05	170.9	6.03	10
Ash Grove Amended 891020	MO BPH-880201MQ		104.1	59	93-41-12	350.9	-3.97	SHORT

1. Absence of Overlap with respect to the Seligman Allotment. If we assume a station at the reference coordinates for the Seligman assignment with a Center of Radiation at 543.2 meters, the 8 radial average HAAT will be 150.0 meters; with an ERP of 50 KW the 1 mv/m contour toward the proposed operation will be at 51.24 km. The 54 dbu F(50,10) contour from the proposed operation will be at 24.4 km, leaving 26.1 km between the interfering and protected contours. The 60 dbu contour from the proposed operation will be at 16.4 km, and the 54 dbu F(50,10) from the assumed Seligman station will be at 77.04 km, leaving 8.32 km between the interfering and protected contours.

2. Minimal Overlap with respect to the Ash Grove Application. If we assume two full-facility (6 KW at 100 m.) Class A stations with I.F. frequency separation separated by 10 km in accordance with the rules, then the 90.5 dbu contour of each station will be at 5 km. In the case of the Ash Grove Application, the HAAT toward the proposed STA is 63.4 meters, and

the 90.5 dbu contour will be at 3.98 km. The HAAT from the Proposed STA toward the Ash Grove Application is 106 meters, and at 0.395 KW the 90.5 dbu contour will be at 2.43 km. In the event that the Ash Grove Application is granted and the station is constructed and begins operation at 6 KW ERP before the instant requested STA is terminated, the 90.5 dbu contours will overlap by 0.38 km. The overlap area will be 0.58 km and the population in the overlap area will be less than 14 persons. It is expected that a permanent site can be found and constructed before the Ash Grove station is authorized and constructed.

Other than the two stations analyzed above, no other assignments are close enough to warrant study to show absence of interference.

B. BLANKETING INTERFERENCE and NEARBY STATIONS.

There are no broadcast stations within the proposed 115 dbu blanketing contour, which extends 247 meters. The only stations in the immediate vicinity are those located on the same tower. Those stations include 4 GHz, 6 GHz, and 11 GHz Microwave facilities and a 450 MHz band Land Mobile station. No intermodulation or other interference is expected. Kindly recall the statement of responsibility in Paragraph III., page 3, above.

X. NON-IONIZING RADIATION.

The A N S I recommended exposure limit for radiation in the frequency range to be emitted by the instant proposal is 1.0 mw/cm². The radiation center will be 314 feet or 95.7 meters above the ground, which at the power to be employed will result in power densities on the ground substantially below the ANSI standard. Assuming 100% reflection from a metal object, radiation intensities could exceed 1 mw/cm² at distances less than 6.42 meters or 21 feet from the antenna itself. It is the policy of the Landlord to require workmen on the tower to wear

radiation protective suits, and when workman are on the tower sufficiently close (less than 21 feet) for there to be a question about exposure, the power of the station will be reduced to a safe level for the workmen, giving due regard to the shielding properties of their protective clothing. The A.N.S.I. Standard of 1 milliwatt per square centimeter is clearly met.

XI. POPULATION, AREAS and CORPORATE BOUNDARIES.

A. Populations.

Population figures were determined from the 1980 U.S. Census data by plotting the calculated contours on the "County Subdivisions/Census County Divisions and Places" Maps and totaling the populations of the divisions within each contour. In cases where a computed contour fell within a division the population not within separately reported cities or towns of that division of that division was assumed to be uniformly distributed over the area of the division not included in the boundaries of the cities or towns. Where the contour fell within the boundaries of a city or town whose population was separately reported in the census, the population of that city or town was assumed to be uniformly distributed over the area indicated for that place on the census division maps, except where census tract maps were also available, the population of the tracts within the contour was totaled and where contours fell within a tract, the population of the tract was assumed to be uniformly distributed.

B. Areas.

Areas were computed by piecewise integration; that is, by dividing the area into segments the areas of which could be readily computed and then calculating and summing those areas.

C. Approximately 9037 persons (1980 Census) reside within the 917.2 Sq. Km. inside theoretical 1 mv/m contour proposed for this STA, if operation at 0.395 KW is allowed. If power is reduced to 0.155 KW, service will be provided to only 4805 persons in an area of 556.6 Sq Km.

XII. CONCLUSION.

The facilities proposed in this application, if granted, will allow station KXBR to continue to provide some service while they arrange for a new permanent site, without providing harmful interference to any other station. It is therefore in the public interest, convenience and necessity that this application for Special Temporary Authority be granted.

Respectfully submitted,

Dennis Silver
Registered Professional
Engineer, State of Utah

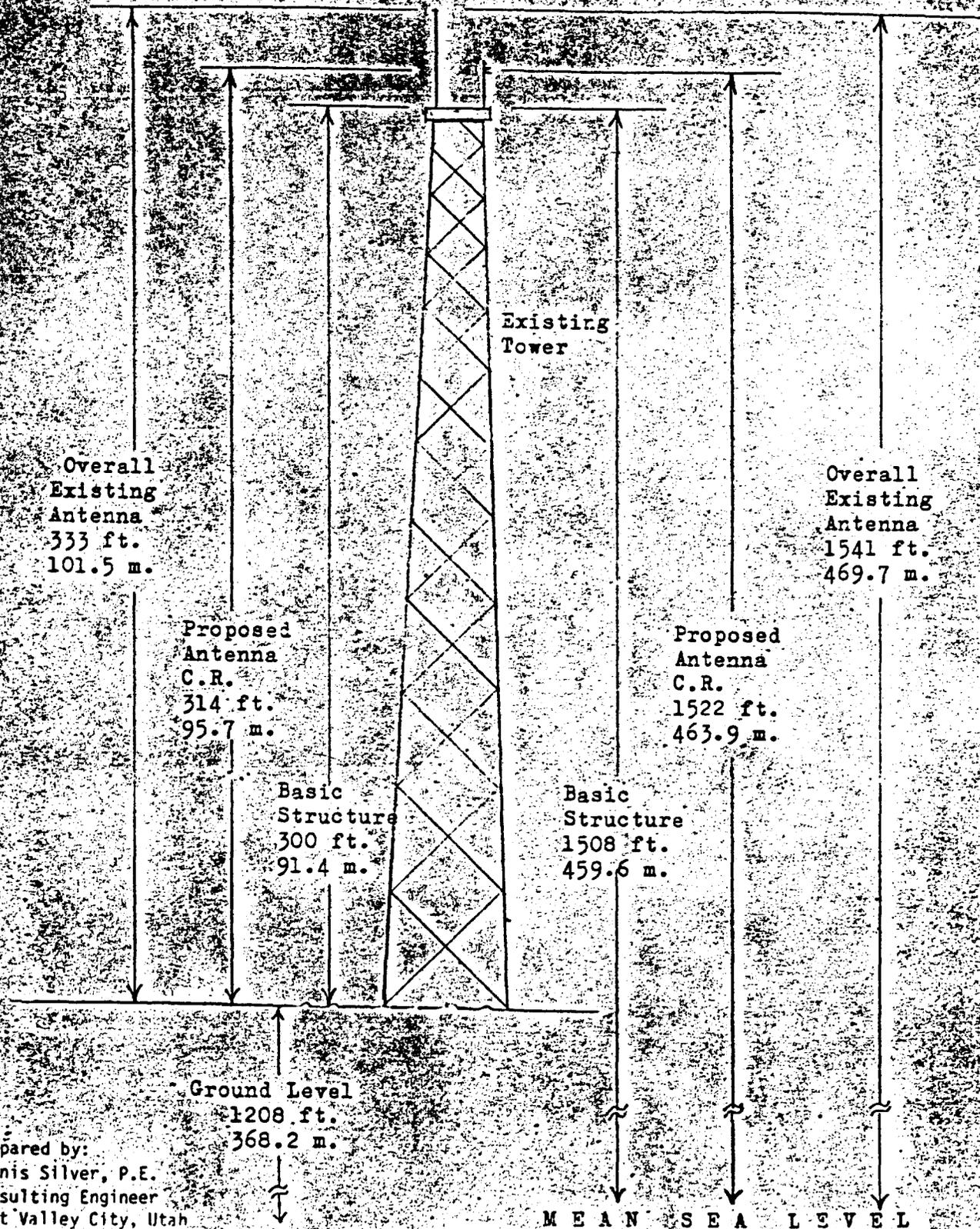
ANTENNA SKETCH

REQUEST for SPECIAL TEMPORARY AUTHORITY

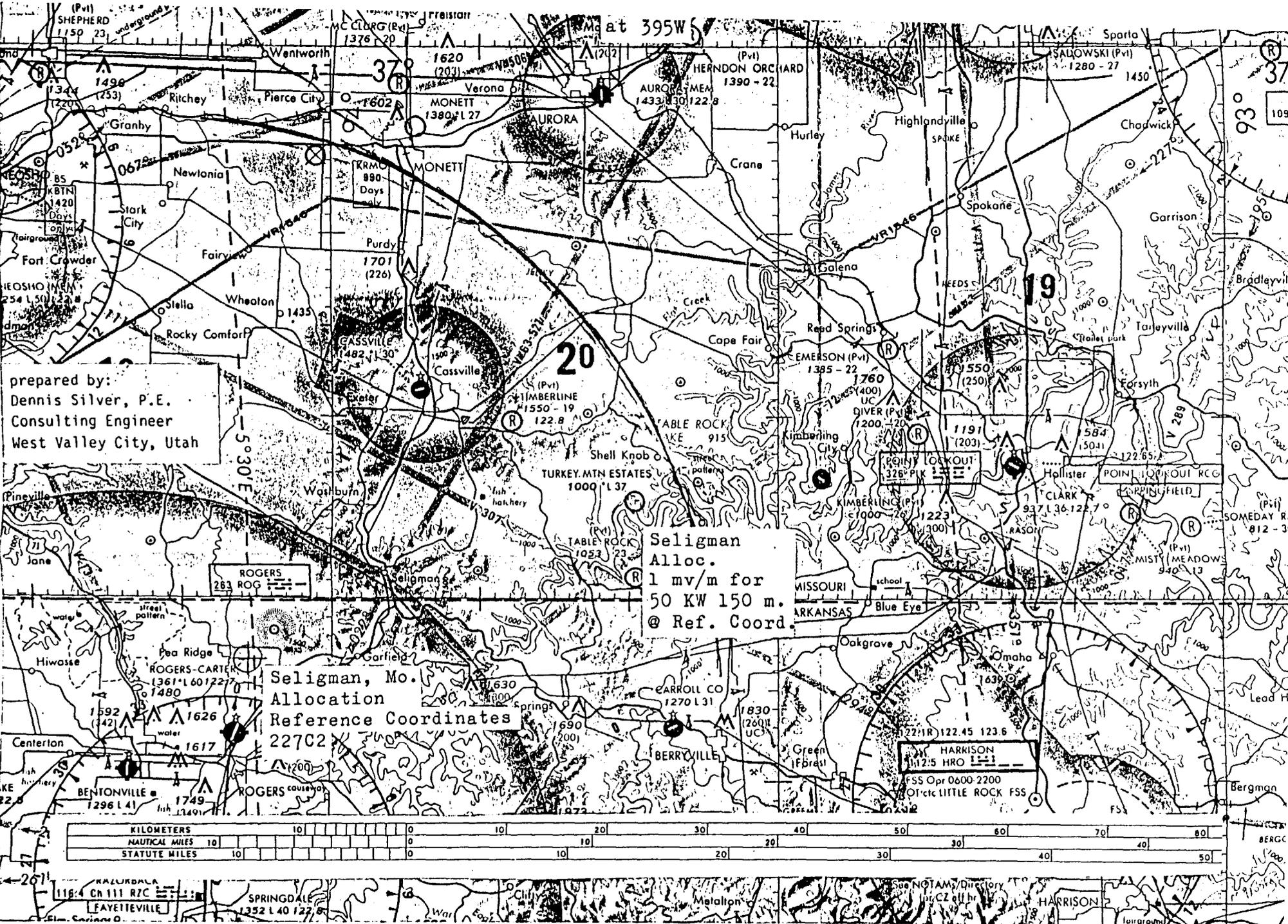
K X B R, Channel 228A Greenfield, Mo.

May 1990

Fig. 2.



prepared by:
Dennis Silver, P.E.
Consulting Engineer
West Valley City, Utah



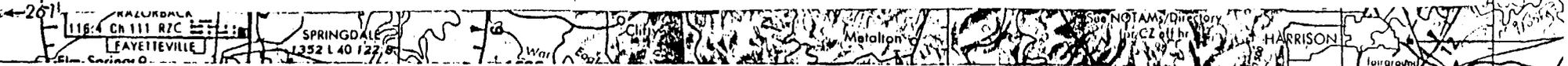
prepared by:
 Dennis Silver, P.E.
 Consulting Engineer
 West Valley City, Utah

ROGERS
 283 ROG

Seligman, Mo.
 Allocation
 Reference Coordinates
 227C2

Seligman
 Alloc.
 1 mv/m for
 50 KW 150 m.
 @ Ref. Coord.

HARRISON
 1125 HRO
 FSS Opr 0600-2200
 Ofc Little Rock FSS

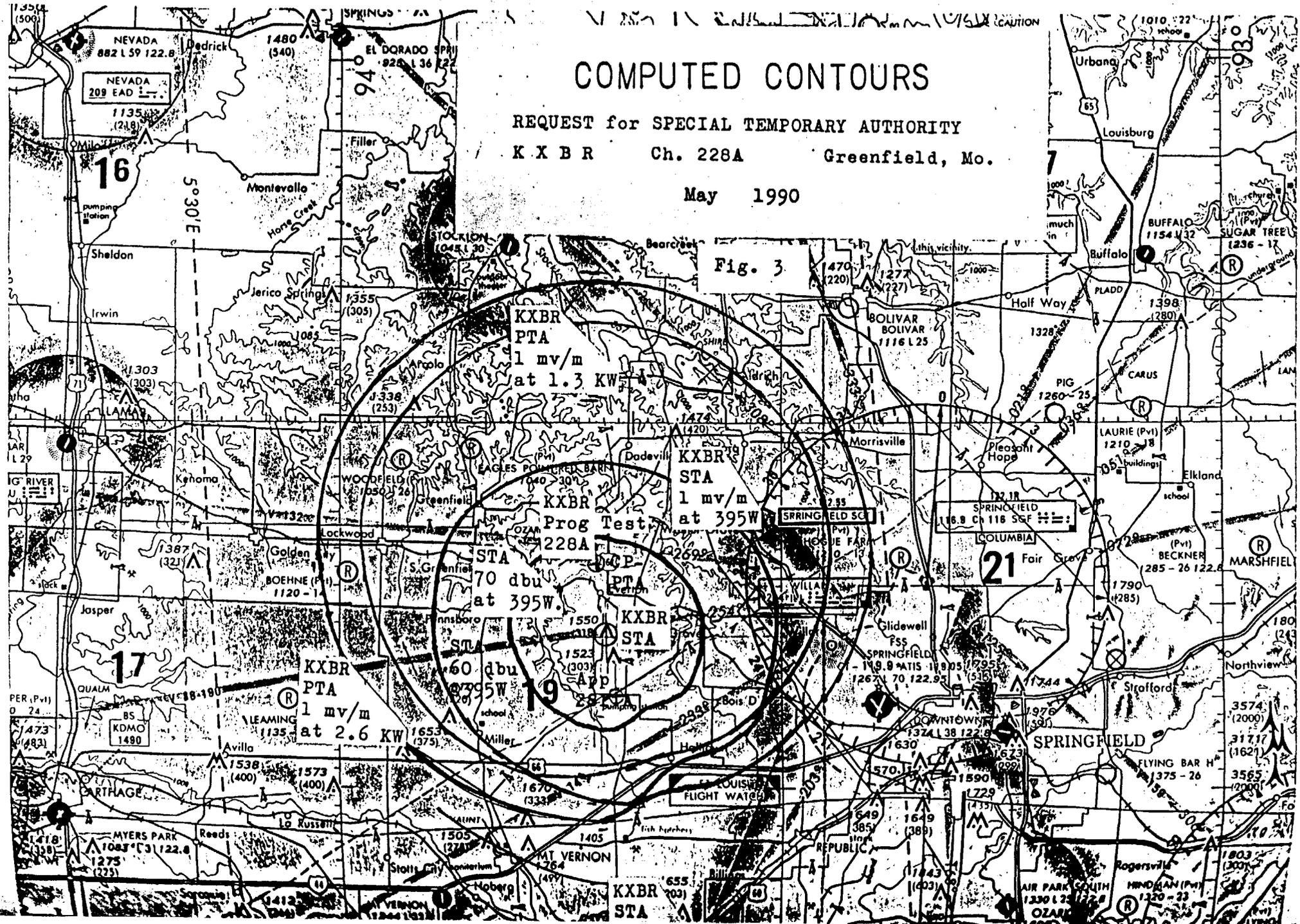


COMPUTED CONTOURS

REQUEST for SPECIAL TEMPORARY AUTHORITY
K X B R Ch. 228A Greenfield, Mo.

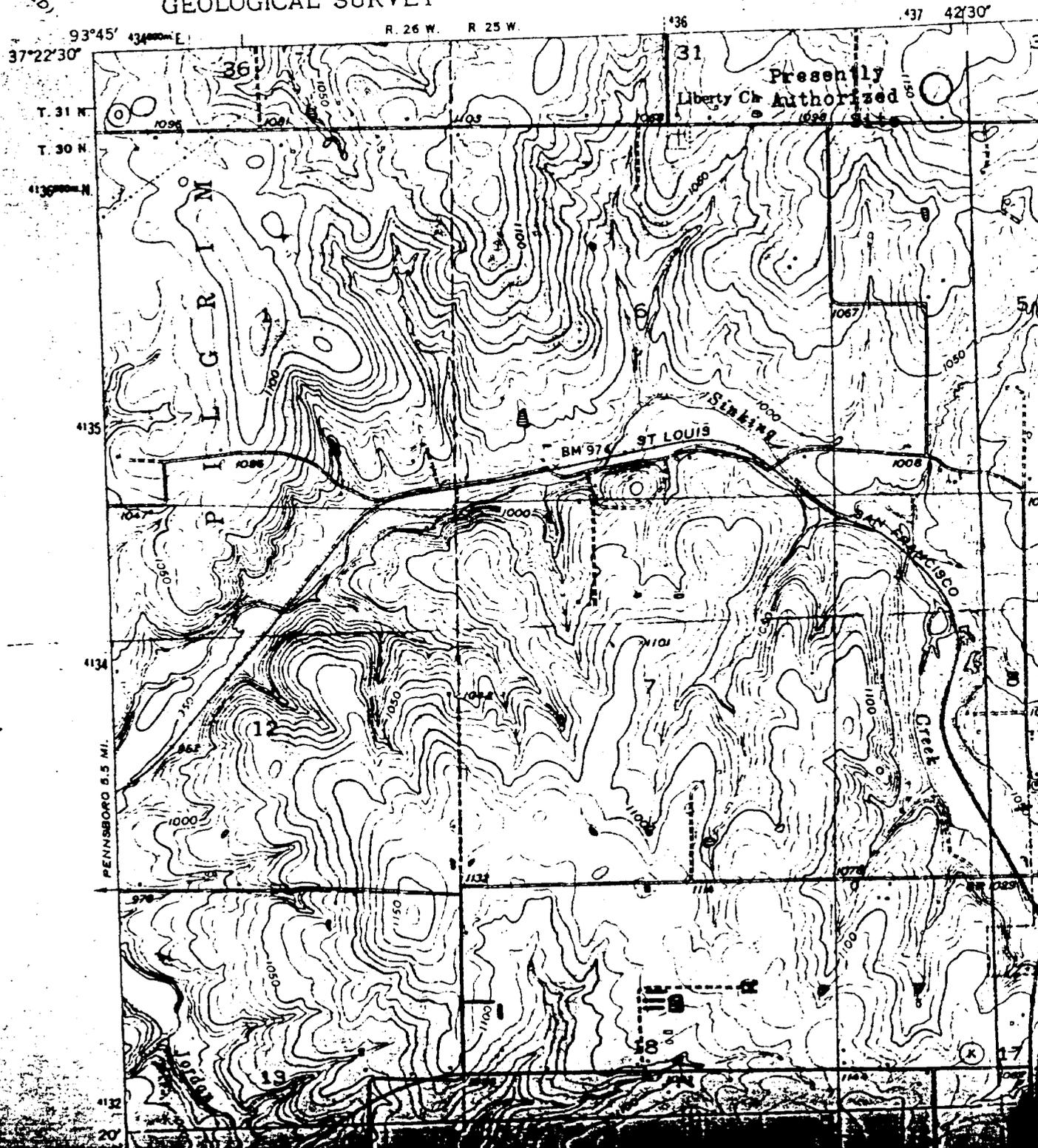
May 1990

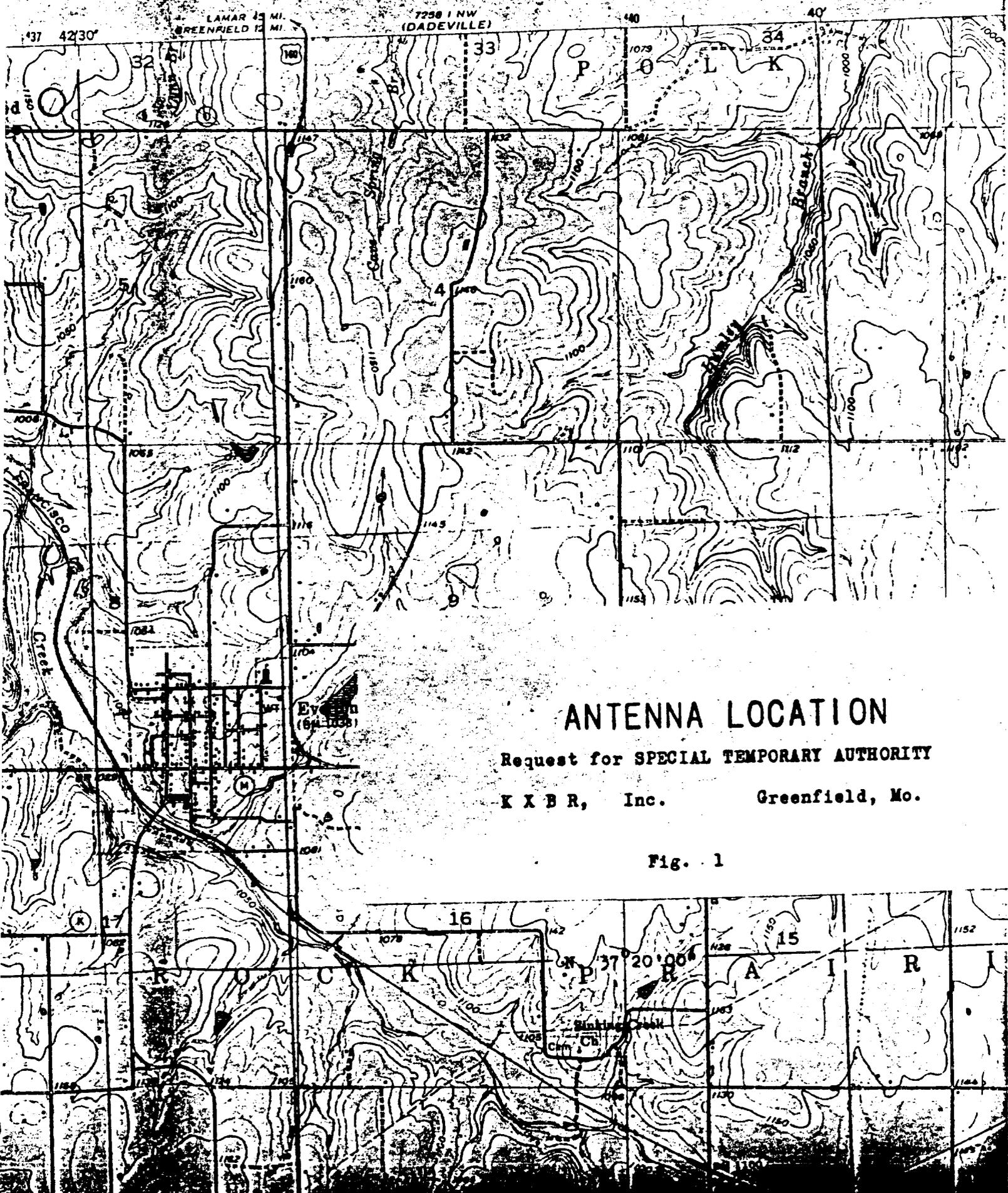
Fig. 3



228 N. N.E.
(GREENFIELD)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY





ANTENNA LOCATION

Request for SPECIAL TEMPORARY AUTHORITY

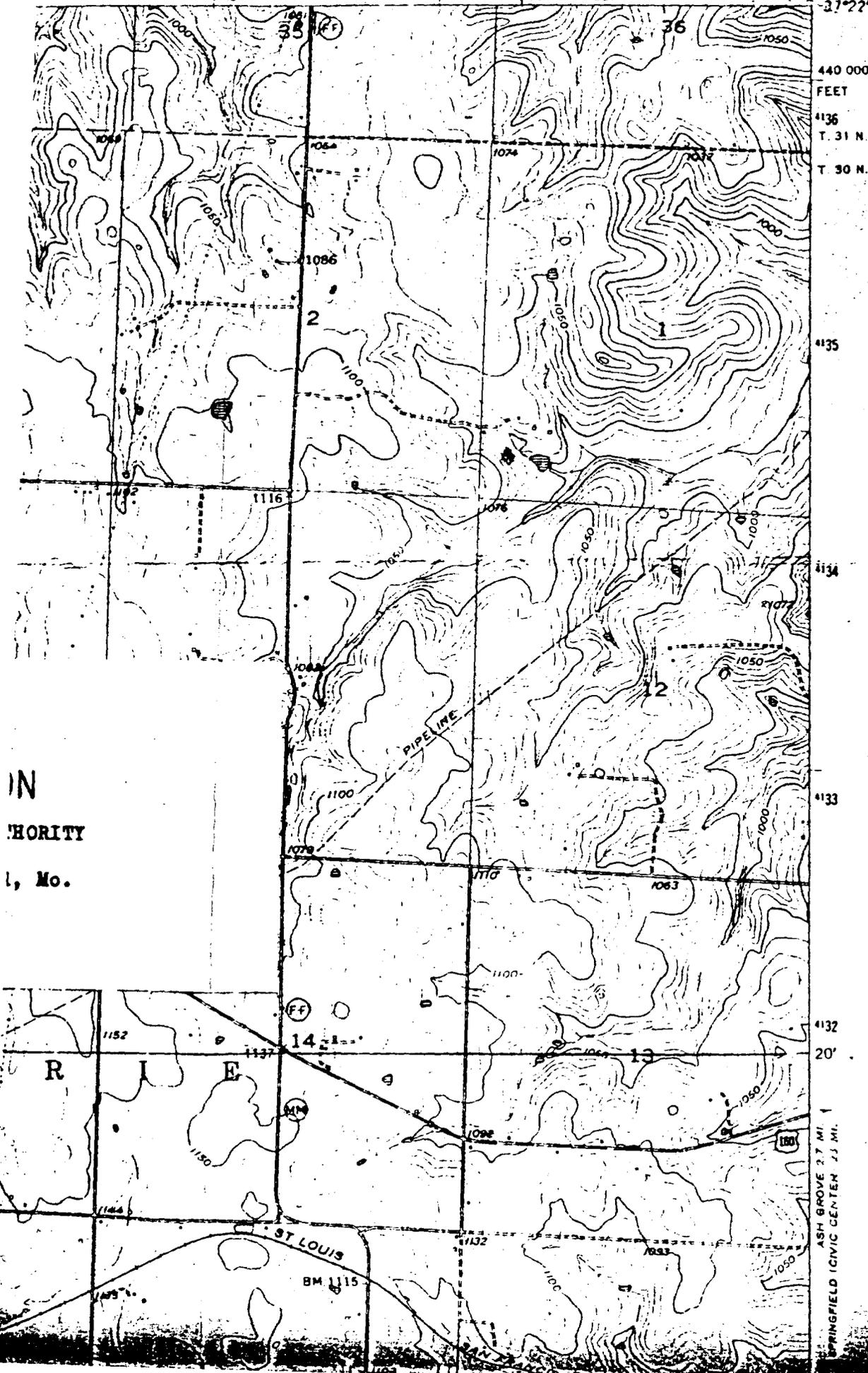
K X B R, Inc. Greenfield, Mo.

Fig. 1

EVERTON QUADRANGLE
MISSOURI
7.5 MINUTE SERIES (TOPOGRAPHIC)

7250
WALNUT

42 43 44 750 000 FEET 37°17'30" 37°22'30"

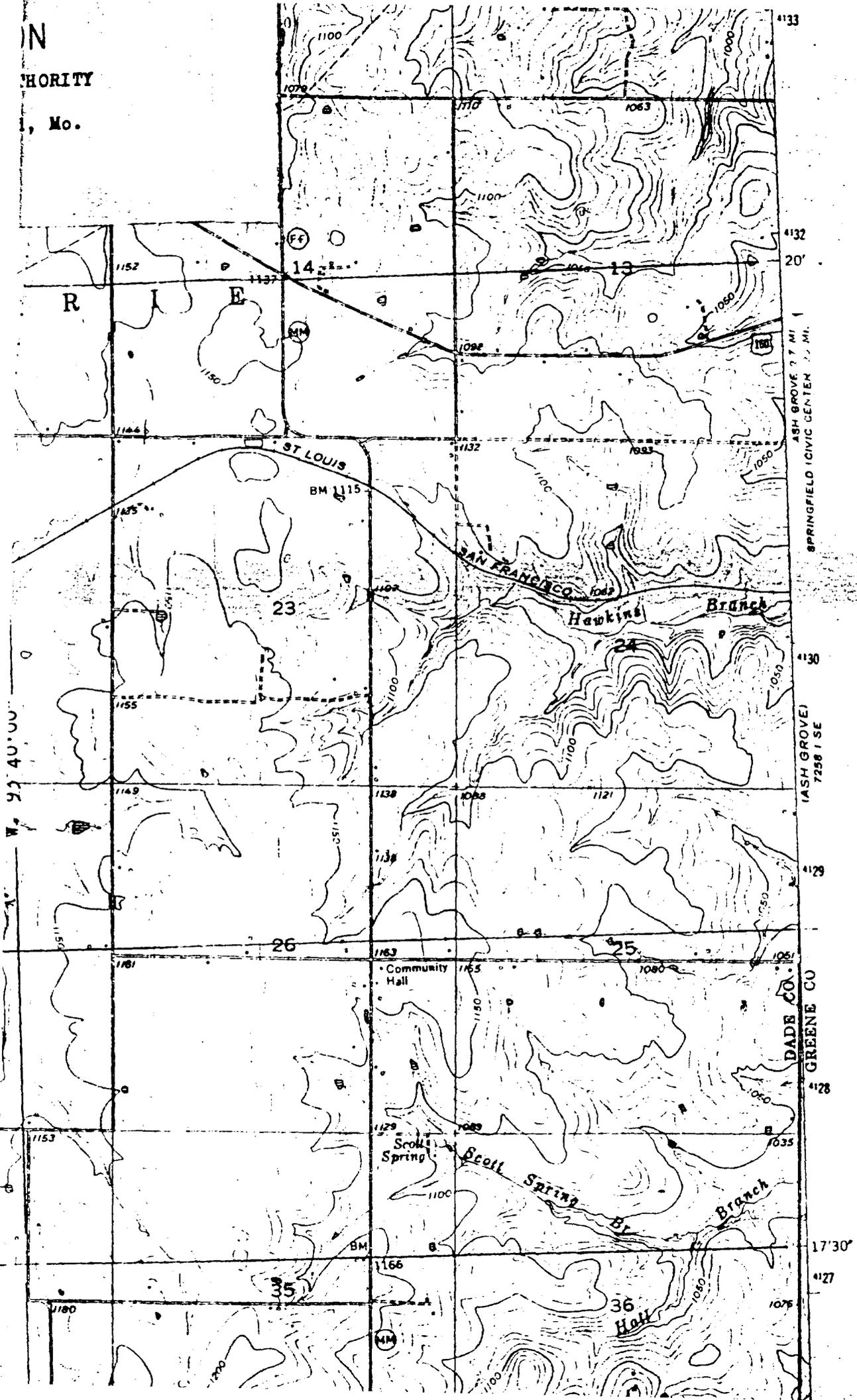


IN
HORITY
l, Mo.

440 000
FEET
T. 31 N.
T. 30 N.
4135
4134
4133
4132
20'
ASH GROVE 2.7 MI.
SPRINGFIELD CIVIC CENTER 2.3 MI.

R
J
E
ST LOUIS
BM 1115

IN
THORITY
, Mo.



4133
4132
20'
4130
4128
4127
7258 I SE
DADE CO.
GREENE CO.

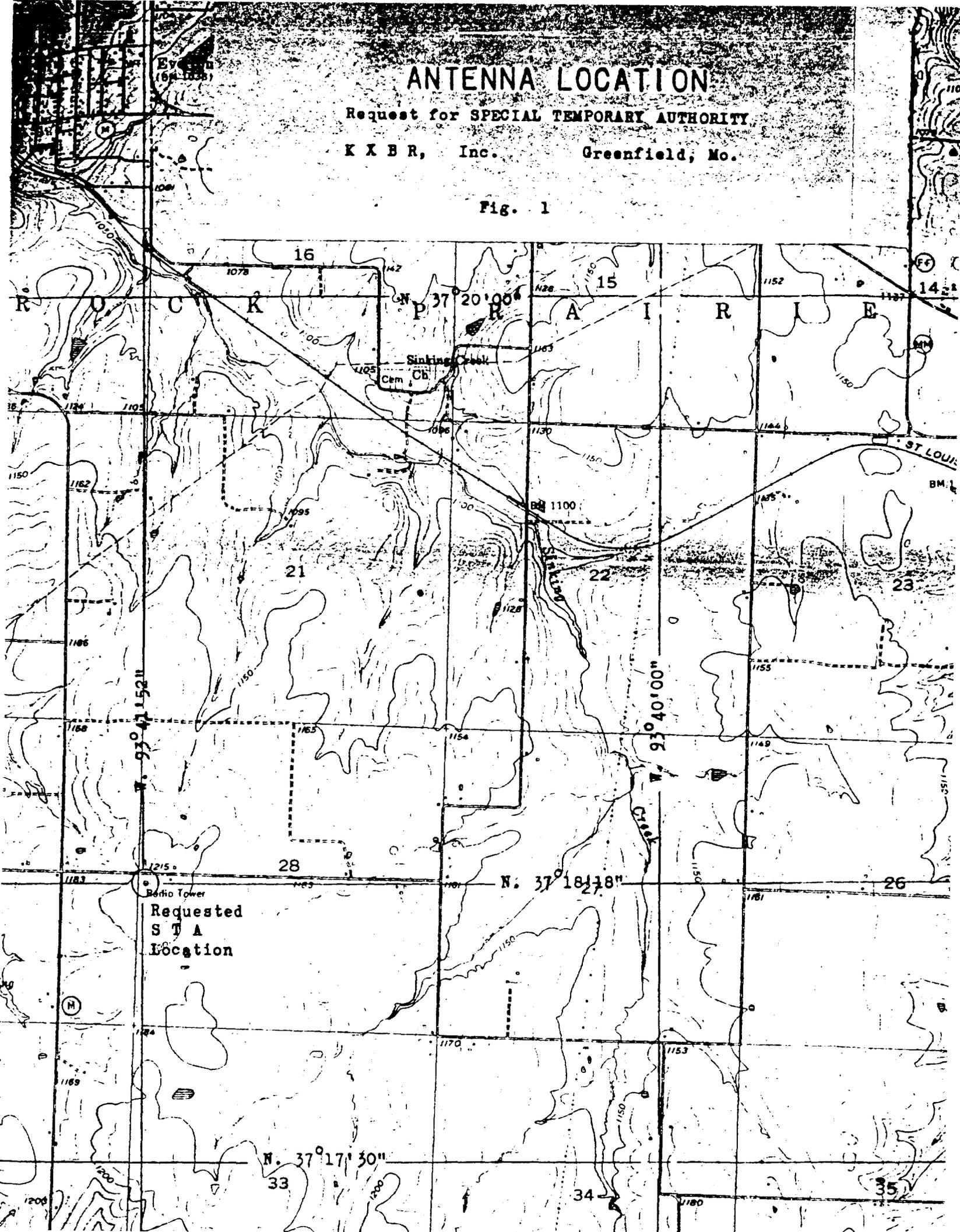
W 23 40' 00"

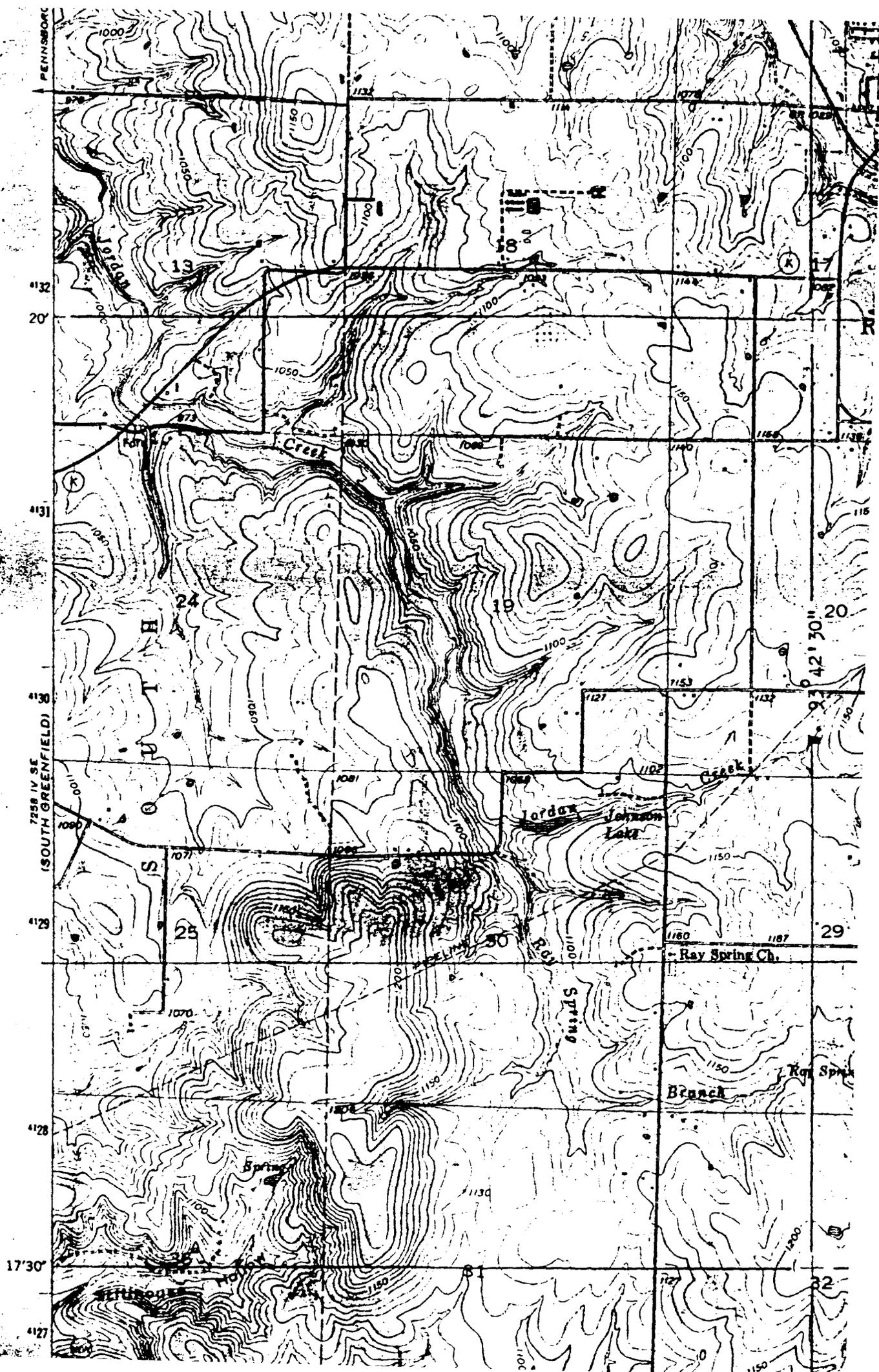
ANTENNA LOCATION

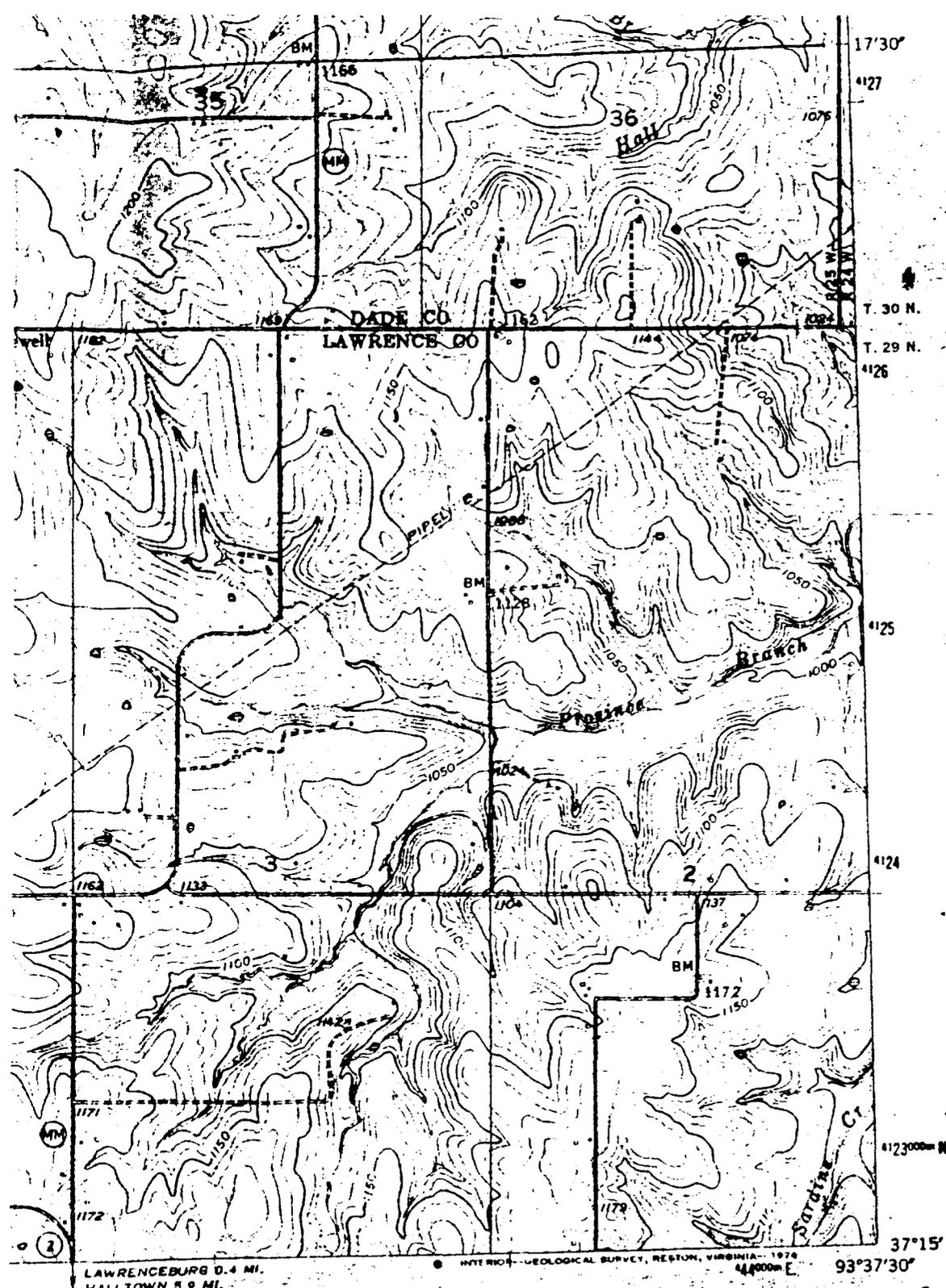
Request for SPECIAL TEMPORARY AUTHORITY

K X B R, Inc. Greenfield, Mo.

Fig. 1







LAWRENCEBURG 0.4 MI.
HALLTOWN 5.9 MI.

UNITED STATES GEOLOGICAL SURVEY, RESTON, VIRGINIA 1974
4,000m E 93°37'30"

ROAD CLASSIFICATION

- Heavy-duty
- Medium-duty
- Light-duty
- Unimproved dirt
- U. S. Route
- State Route

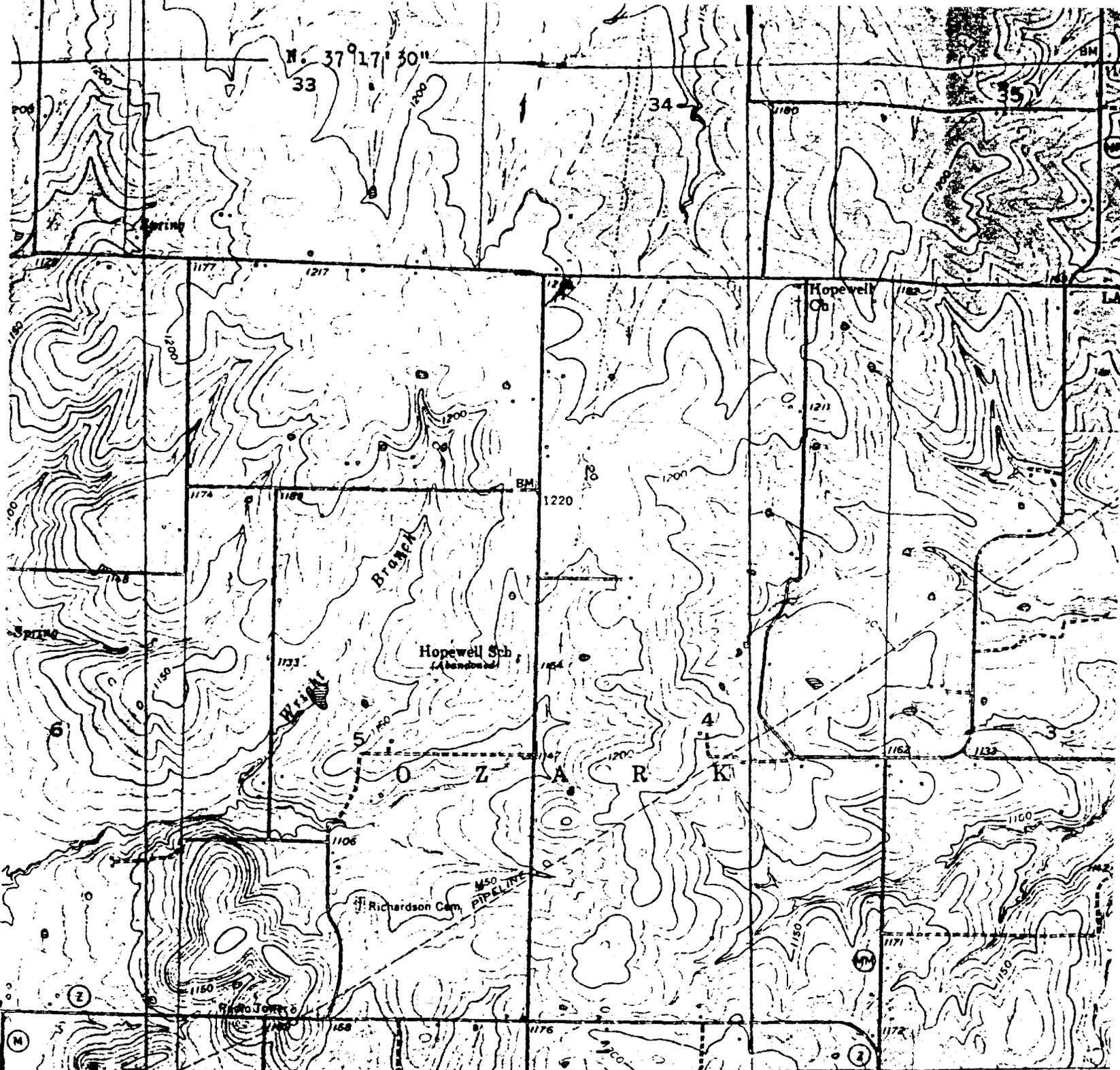


QUADRANGLE LOCATION

EVERTON, MO.
N3715-W9337.5/7.5

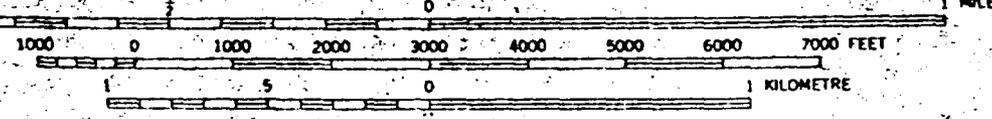
1956
PHOTOREVISED 1975
AMS 7258 I SW - SERIES V878

(HALLTOWN NE)
7258 I NE



(MALETOWN)
7258 II NW
SCALE 1:24 000

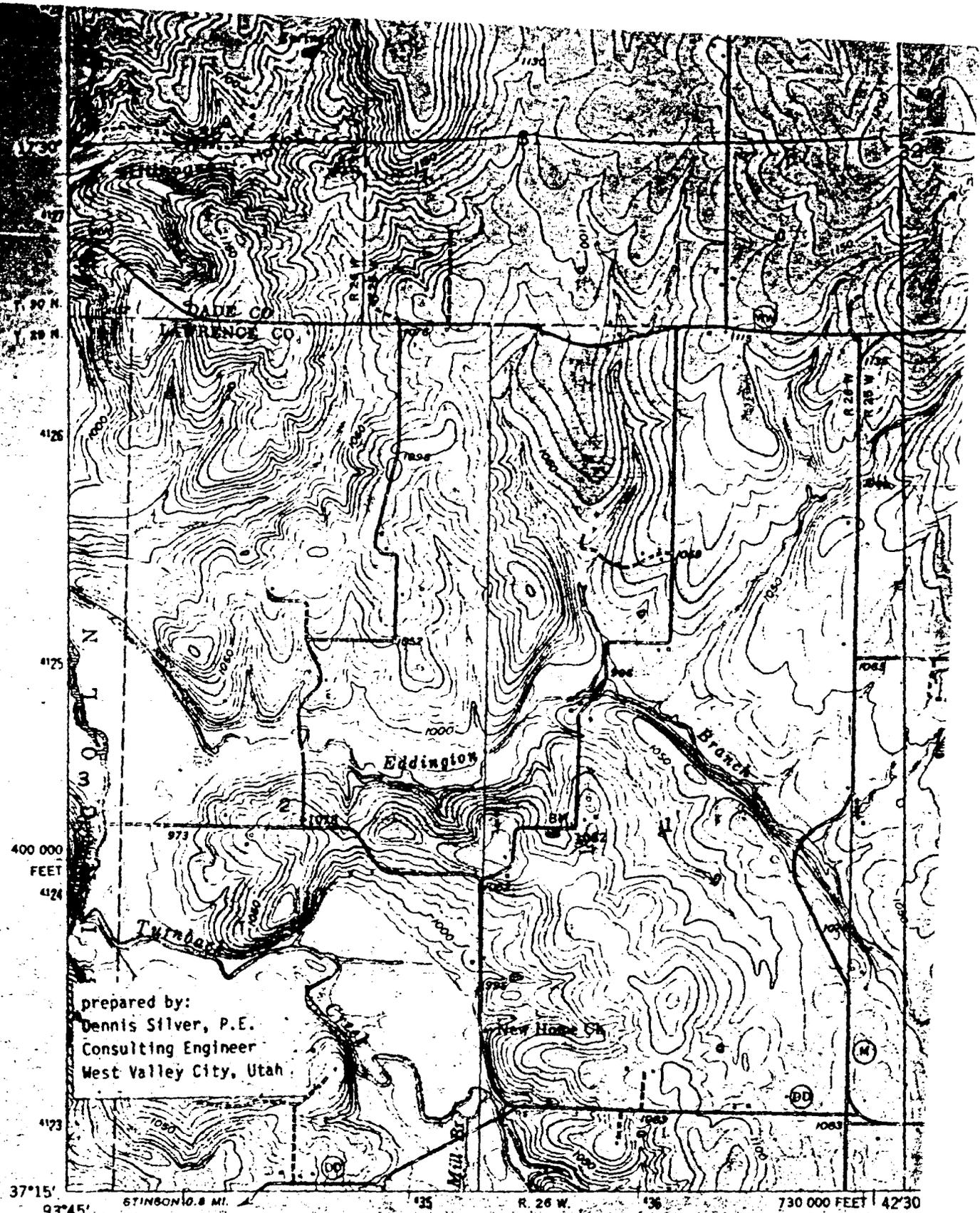
LAWRENCEBURG 0.4 MI.
HALLTOWN 5.9 MI.



CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS
SALE BY U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
AND BY THE DIVISION OF RESEARCH AND TECHNICAL INFORMATION
U.S. DEPARTMENT OF NATURAL RESOURCES, ROLLA, MISSOURI 65401
A LIST OF U.S. GEOLOGICAL SURVEY MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



prepared by:
Dennis Silver, P.E.
Consulting Engineer
West Valley City, Utah

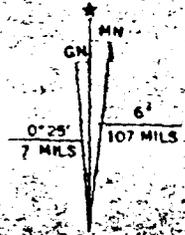
(MILLER)
7258 III NE

Mapped, edited, and published by the Geological Survey
as part of the Department of the Interior program
for the development of the Missouri River Basin
Control by USGS and USC&GS

Topography from aerial photographs by multiplex methods
Aerial photographs taken 1950. Field check 1955-1956

Polyconic projection. 1927 North American datum
10,000-foot grid based on Missouri coordinate system, west zone
1000-metre Universal Transverse Mercator grid ticks,
zone 15, shown in blue

Revisions shown in purple compiled from aerial photographs
taken 1975. This information not field checked



UTM GRID AND 1975 MAGNETIC NORTH
DECLINATION AT CENTER OF SHEET

FEDERAL COMMUNICATIONS COMMISSION
WASHINGTON, D.C. 20554
JAN 18 1989

RECEIVED
JAN 18 1989
COMMUNICATIONS SECTION

IN REPLY REFER TO:
8920-RLS

KXBR, Inc.
309 N. Jefferson
Suite 222
Springfield, MO 65806

In re: KXBR(FM), Greenfield, MO
KXBR, Inc.
Extension of STA

Gentlemen:

This is in reference to your attorney's letter dated January 11, 1989 requesting an extension of a special temporary authority (STA) originally granted on November 30, 1988. KXBR, Inc. has begun construction of the KXBR(FM) facility as authorized by construction permit BPH-8708311B. The completion of the construction is expected within three weeks, weather permitting.

Accordingly, an extension of your special temporary authority IS HEREBY GRANTED. This authority expires on February 15, 1989.

Sincerely,

for Robert D. Auerberg

Dennis Williams
Chief, FM Branch
Audio Services Division
Mass Media Bureau

cc: Baraff, Koerner, Olender & Hochberg, P.C.

BARAFF, KOERNER, OLENDER & HOCHBERG, P. C.

ATTORNEYS AT LAW
2033 M STREET, N.W., SUITE 700
WASHINGTON, D. C. 20036-3355
(202) 452-8200

B. JAY BARAFF
ROBERT L. OLENDER
JAMES A. KOERNER
PHILIP R. HOCHBERG
AARON P. SHAINIS
LEE J. PELTZMAN
JAMES E. MEYERS
ALAN E. ARONOWITZ
RANDALL D. FISHER*

OF COUNSEL
ROBERT BENNETT LUBIC

TELECOPY
(202) 223-2695

September 28, 1989

* TEXAS BAR ONLY

Ms. Donna R. Searcy
Secretary
Federal Communications Commission
1919 M Street, N.W.
Washington, D.C. 20554

RECEIVED
890928

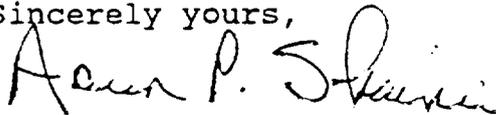
Re: KXBR
File No. BPH-870831IB
Greenfield, Missouri

Dear Ms. Searcy:

On March 24, 1989, KXBR, Inc. submitted an application for station license (FCC Form 302) to cover the above-referenced construction permit. Undersigned counsel has been advised by Commission staff that a check was dishonored by the bank. Accordingly, the application and a replacement check is hereby resubmitted.

If there are any questions with respect to this matter, please communicate with the undersigned.

Sincerely yours,



Aaron P. Shainis

cc: Mr. Jim Crutchfield (FCC Hand Delivery)
Enclosure
APS:amc
c:\wp\aps\092889

APPLICATION FOR NEW BROADCAST STATION LICENSE

(Carefully read instructions before filling out Form)

RETURN ONLY FORM TO FCC

For Commission Fee Use Only RECEIVED MAR 24 1989 FCC FEE SECTION	FEE NO: 03005238 03005238	For Applicant Fee Use Only
	FEE TYPE: MEL (MEL)	Is a fee submitted with this application? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	FEE AMT: 100.00 (200.00)	If No, indicate reason therefor (check one box): <input type="checkbox"/> Nonfeeable application
	ID SEQ: 18	<input type="checkbox"/> Fee Exempt (See 47 C.F.R. Section 1.1112) <input type="checkbox"/> Noncommercial educational licensee <input type="checkbox"/> Governmental entity

SECTION I - GENERAL DATA

For Commission Use Only
 BLH-890928 KB
 File No.

Legal Name of Applicant KXBR, Inc.	Mailing Address 309 North Jefferson St., Suite 348		
	City Springfield	State MO	Zip Code 65806
	Telephone No. (include area code)		
	FCC FEE SECTION		

1. Facilities authorized by construction permit

This application is for: Commercial Noncommercial

AM Directional AM Non-Directional FM Directional FM Non-Directional TV

Call Letters KXBR	Community of License Greenfield, MO	Construction Permit File No. BPH-870831IB	Modification of Construction Permit File No(s).	Expiration Date of Last Construction Permit
----------------------	--	--	---	---

2. Is the station now operating pursuant to automatic program test authority in accordance with 47 C.F.R. Section 73.1620? Yes No

If No, explain.

3. Have all the terms, conditions, and obligations set forth in the above described construction permit been fully met? Yes No

If No, state exceptions.

4. Apart from the changes already reported, has any cause or circumstance arisen since the grant of the underlying construction permit which would result in any statement or representation contained in the construction permit application to be now incorrect? Yes No

If Yes, explain.

5. Has the permittee filed its Ownership Report (FCC Form 323) or ownership certification in accordance with 47 C.F.R. Section 73.3615(b)? Yes No

If No, explain.

Does not apply

Applicant

KXBR, Inc.

Authorized in construction permit

Transmitter Site	Frequency	93.5 (228A)	Antenna height above average terrain CENTER		
	Effective radiated power in kilowatts				
Construction Permit # BPH-870831 JS	Horizontal	1.3	Horizontal maximum	Horizontal	99.365 meters
	Vertical	1.3	Vertical maximum	Vertical	99.365 meters

location

711 F.Fth Ave

City or Town

New York

County location

County

Dodge

City or Town

Everton

Street address (or other identification)

County Road "O" (West Side)

State location

County

GREENE

City or Town

Springfield

Number and Street

309 N Jefferson

Control point location (only if authorized)

City or Town

Springfield

Street address (or other identification)

309 N Jefferson

constants:

Current stage,	Applied D.C. voltage in last radio stage, in volts	Efficiency Factor F of transmitter at operating power in percent	Transmitter power output, in kW by indirect method	RF transmission line meter reading
900 mA	3150	82%	1200 kW	

Model and type No.

CCA (Phelps Dodge) 1974

Number of Sections

5 Bay

Power gain

2.47

Antenna radiation center above ground and mean sea level:

HORIZONTAL

99.0 meters (AGL)

452.0 meters (AMSL)

VERTICAL

99.0 meters (AGL)

452.0 meters (AMSL)

Coordinates of antenna (to nearest second)

Lat: 37° 22' 19"

West longitude 93° 42' 33"

Height of antenna supporting structure

300' Type 380 SR Fm

(Utility Tower Co.)

Elevation in meters of the top of supporting structure above ground (including antenna and other appurtenances and lighting, if any)

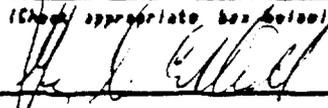
101.0 m

Coaxial line

1 5/8"	Type	ANDREW	Description	Semi-Flex. 1/2" COAX
	(inside transverse dimension) in centimeters	46.5	Length in meters	97.841
			Rated efficiency in percent for this length	848

Inspect, if any, does the apparatus constructed differ from that described in the application for construction permit? Attach exhibits to show compliance with all conditions on construction permit.

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

<small>Please Print or Type</small> 309 N Jefferson St 224 <small>(include ZIP Code)</small> Springfield, MO 65806	<small>Signature (Check appropriate box below)</small> 
	<small>Date</small> 03-01-89
	<small>Telephone No. (include Area Code)</small> (417)-831-2134

Technical Director

Operator

(Specify)

Registered Professional Engineer

Technical Consultant