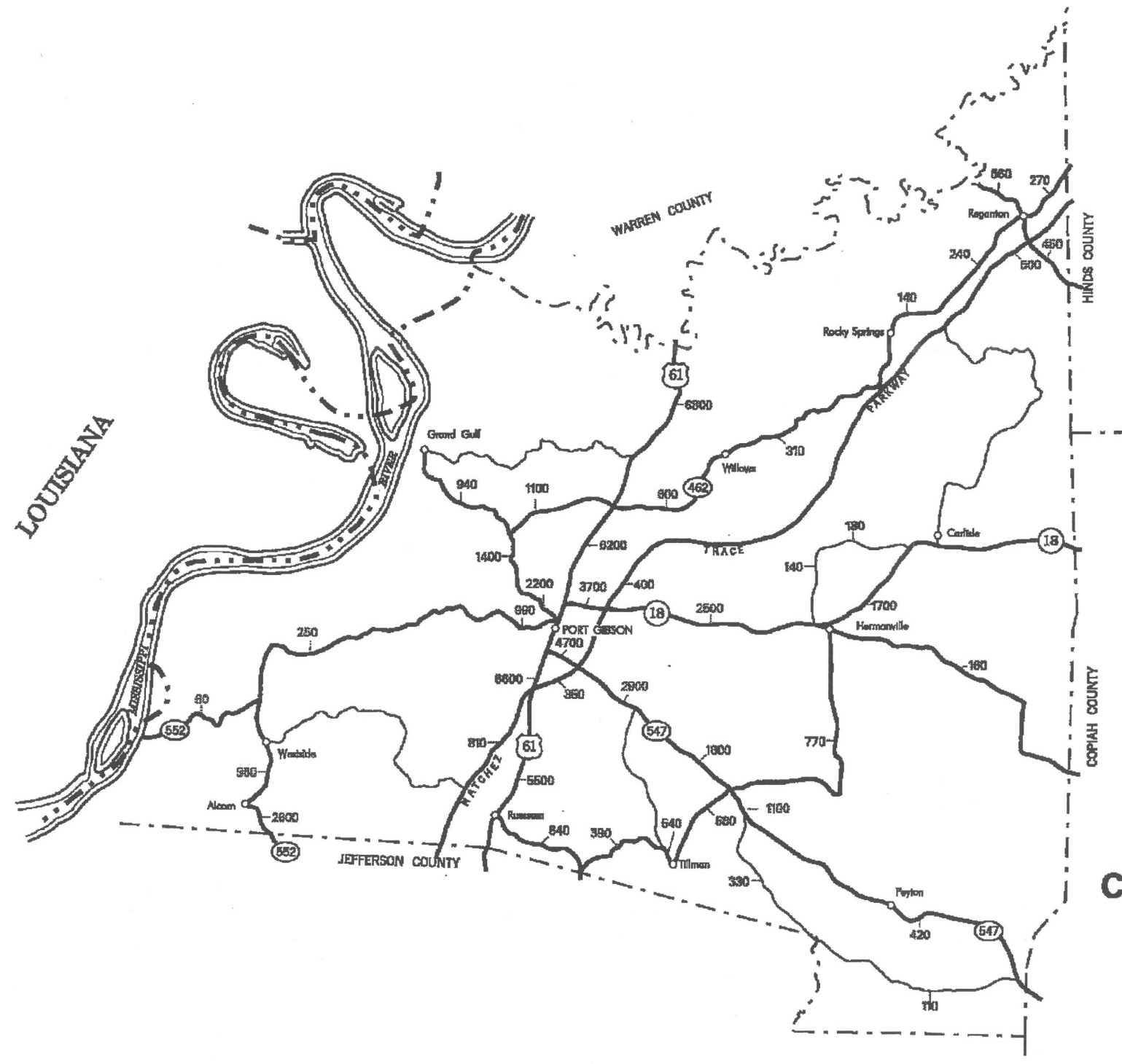


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 EARLY SITE PERMIT APPLICATION
 ENVIRONMENTAL REPORT

PROJECTED 2002
 POPULATION DISTRIBUTION
 0 - 10 MILES
 (UFSAR FIGURE 2.1-6)

FIGURE 2.5-1



ESTIMATED 2000
AVERAGE DAILY TRAFFIC

**CLAIBORNE COUNTY
MISSISSIPPI**

PREPARED BY
MISSISSIPPI DEPARTMENT OF TRANSPORTATION
PLANNING DIVISION
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION



CLAIBORNE COUNTY 11

CLAIBORNE COUNTY 11

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ESTIMATED 2000 DAILY
TRAFFIC COUNT
WITHIN CLAIBORNE COUNTY

FIGURE 2.5-3

REV. 1

LOOKING MDOT VISION 21 A.H.E.A.D.

LEGEND

- Committed
- Immediate
- Mid-Range
- Long-Range
- Passing Lanes
- Special Funding
- The Special Funding Category consists of needs that are contingent upon obtaining additional Federal Funding.
- U.S. 49
- As an Immediate Needs, US 49 will have 100 million of spot improvements along the entire corridor. Special Funding will be required for Interstate Standards

VISION 21

REGULAR SESSION
2002 LEGISLATURE

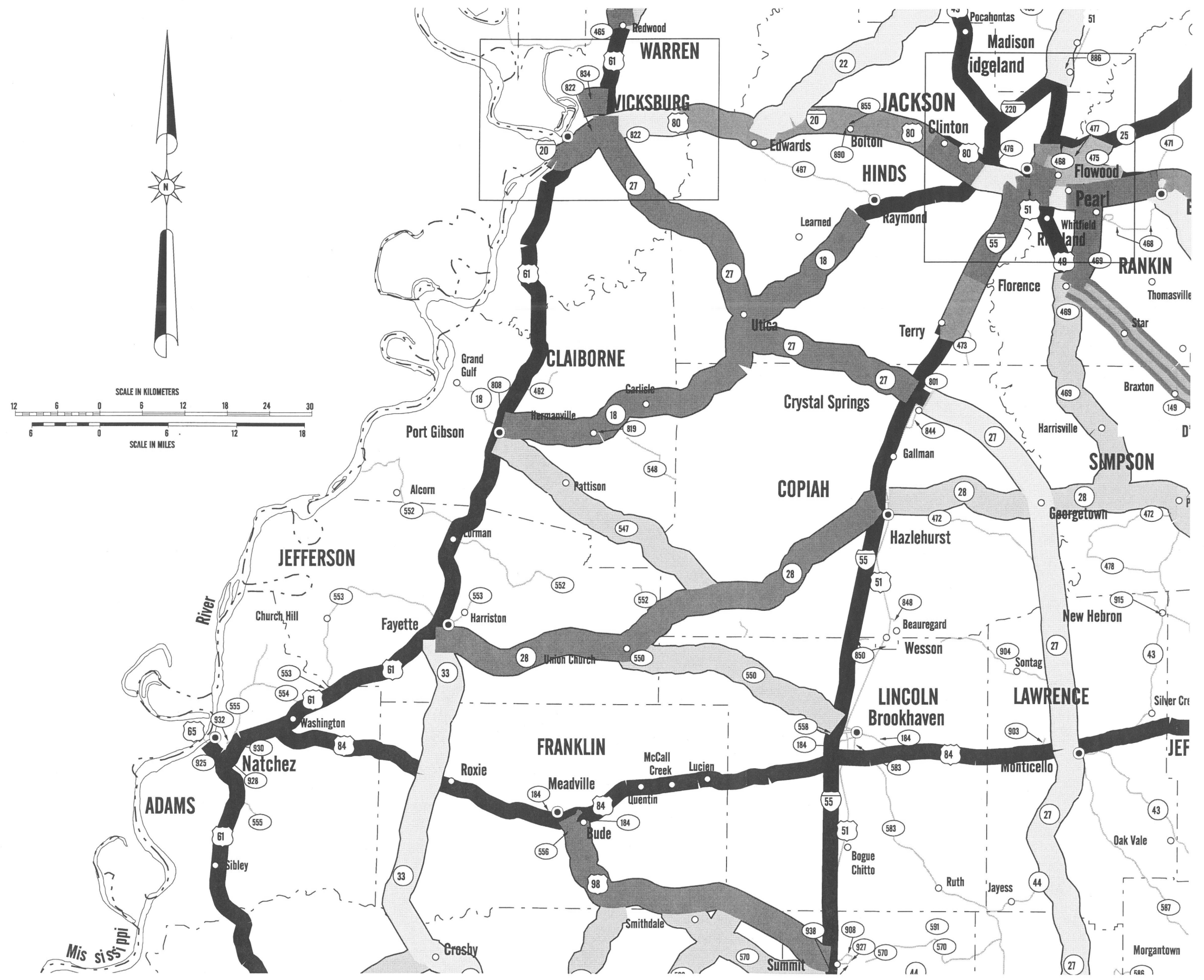
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FEDERAL HIGHWAY ADMINISTRATION
TRANSVERSE MERCATOR PROJECTION,
STATE PLANE COORDINATE SYSTEM 1983

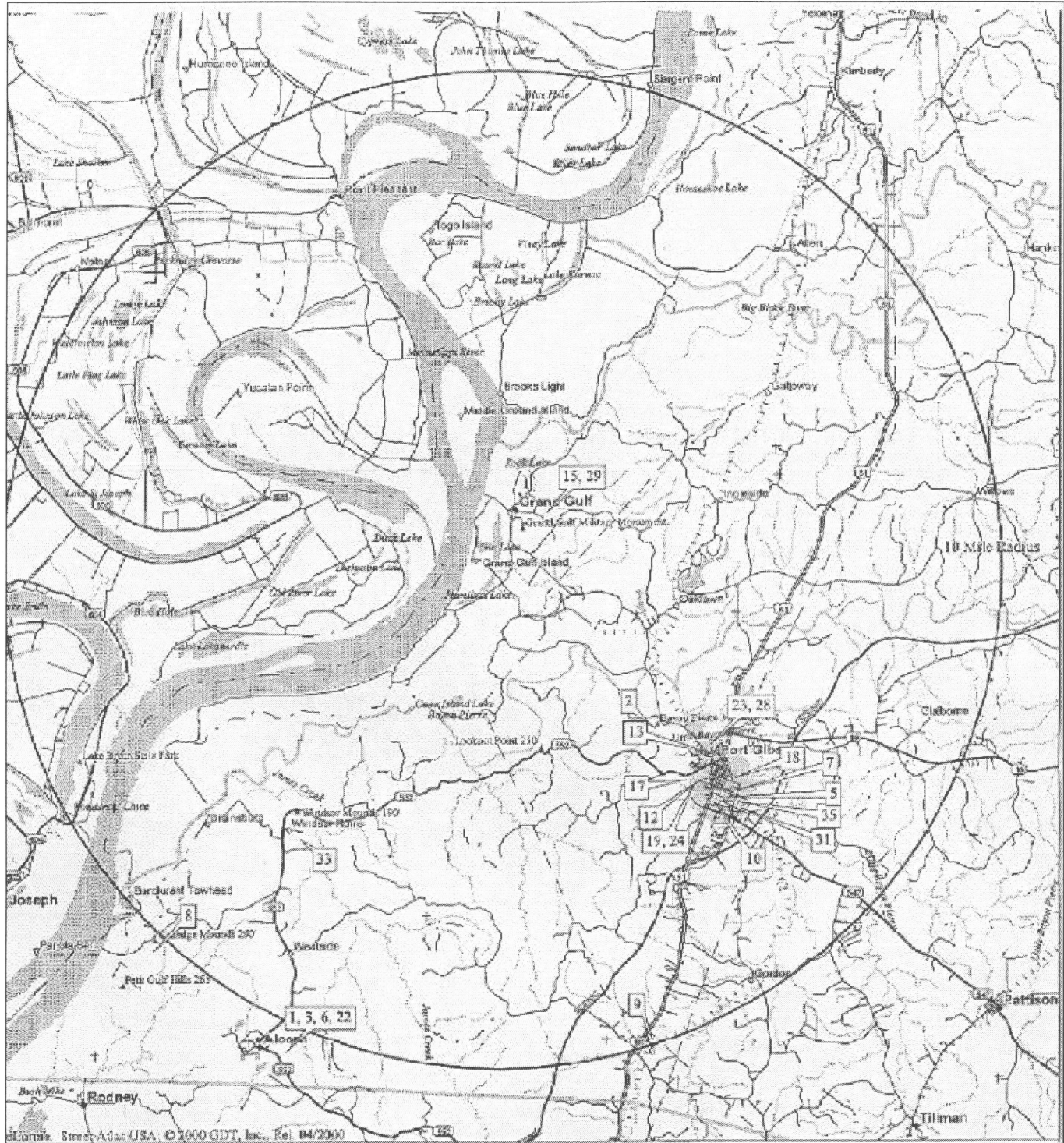
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MISSISSIPPI DOT ROADWAY
DEVELOPMENT PRIORITY

FIGURE 2.5-4

REV. 1





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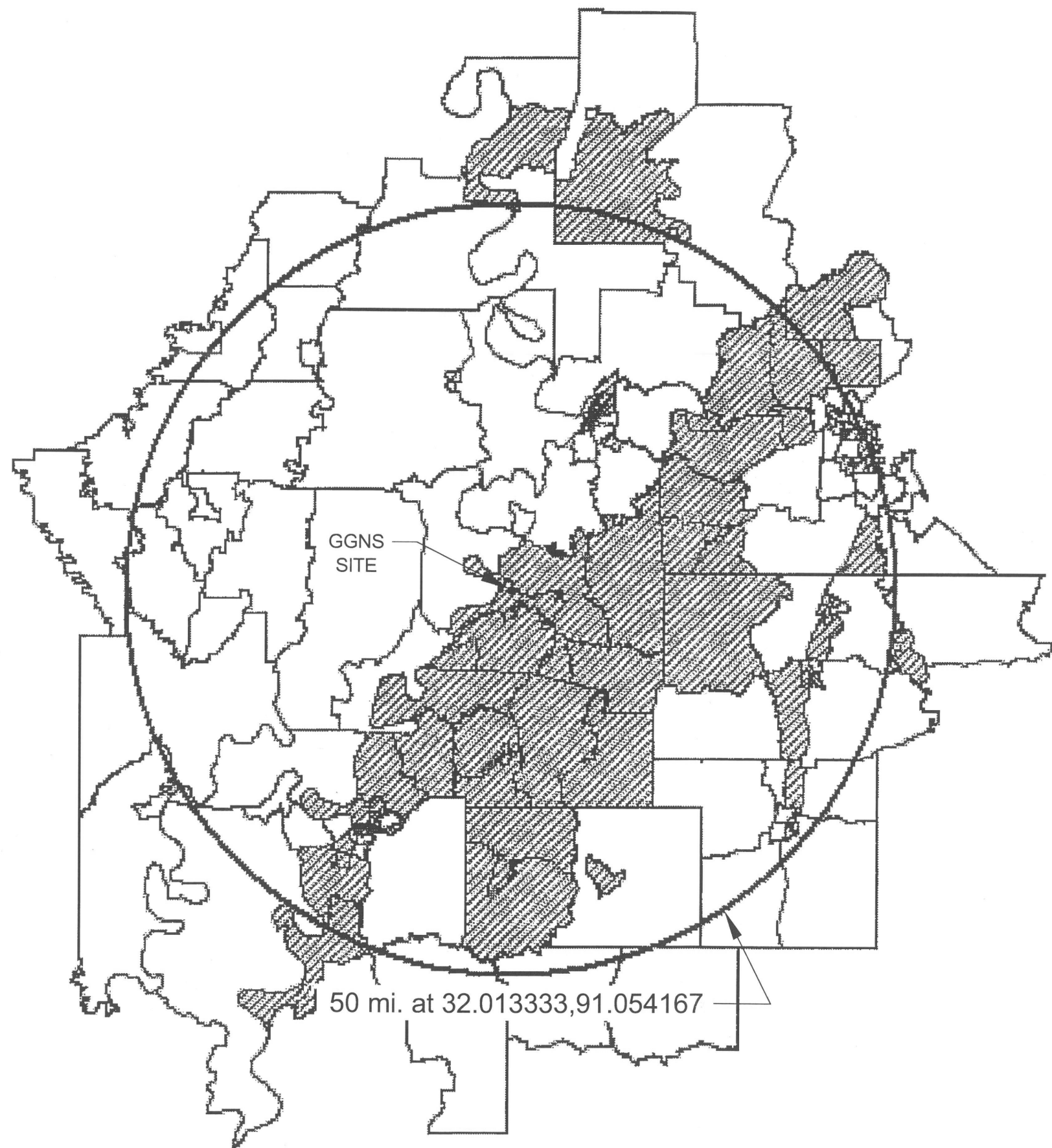
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HISTORIC RESOURCE LOCATIONS
 IN GGNS SITE VICINITY

Scale 1:175,000 (at center)
 2 Miles
 5 KM

- | | |
|-----------------------------|--------------------|
| Local Road | Small Town |
| Major Connector | Airfield |
| Interstate/Unlimited Access | Summit |
| State Route | Geographic Feature |
| Trail | Park/Reservation |
| US Highway | Locals |
| Utility/Pipe | Public Airport |
| County Seat | Railroad Abandoned |

FIGURE 2.5-5



LEGEND:

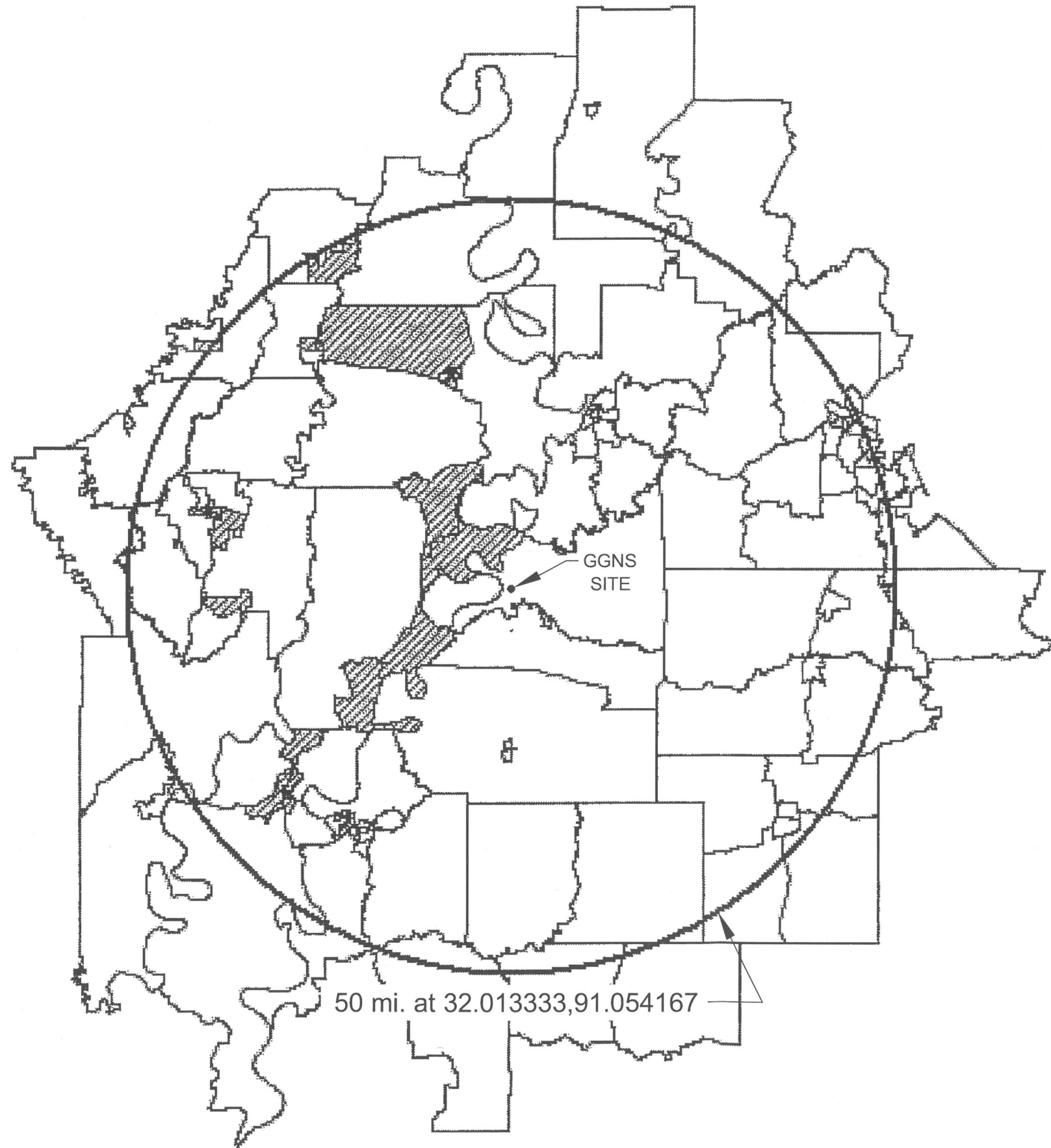
 MINORITY POPULATION >50 % OF TOTAL POPULATION

NOTES:

1. MISSISSIPPI STATE MINORITY POPULATION AVERAGE = 39.6 %.
2. 2000 CENSUS DATA USED.

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MISSISSIPPI
 MINORITY POPULATION MAP
 FOR GGNS SITE REGION



LEGEND:

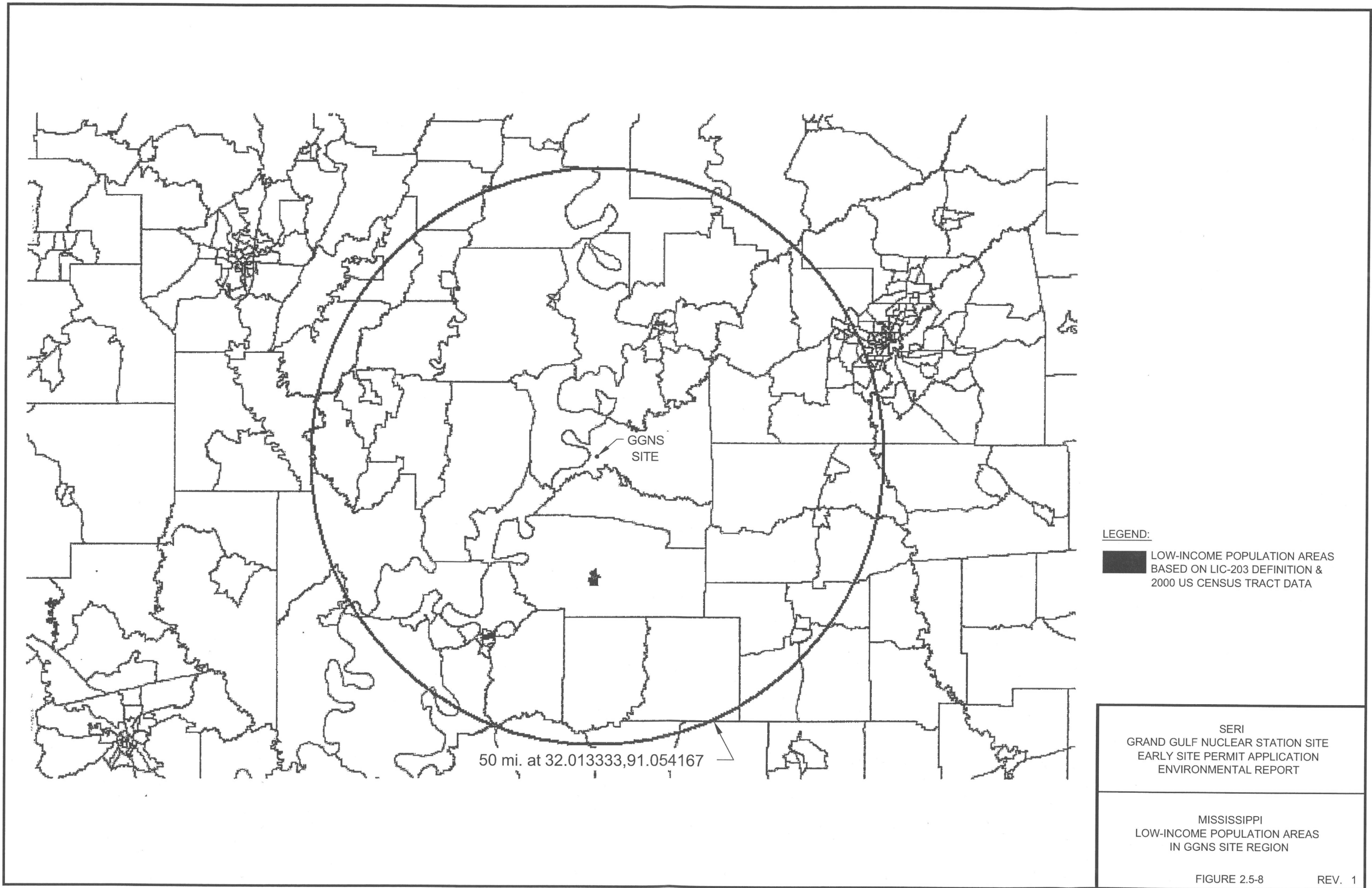
 MINORITY POPULATION >50 % OF TOTAL POPULATION

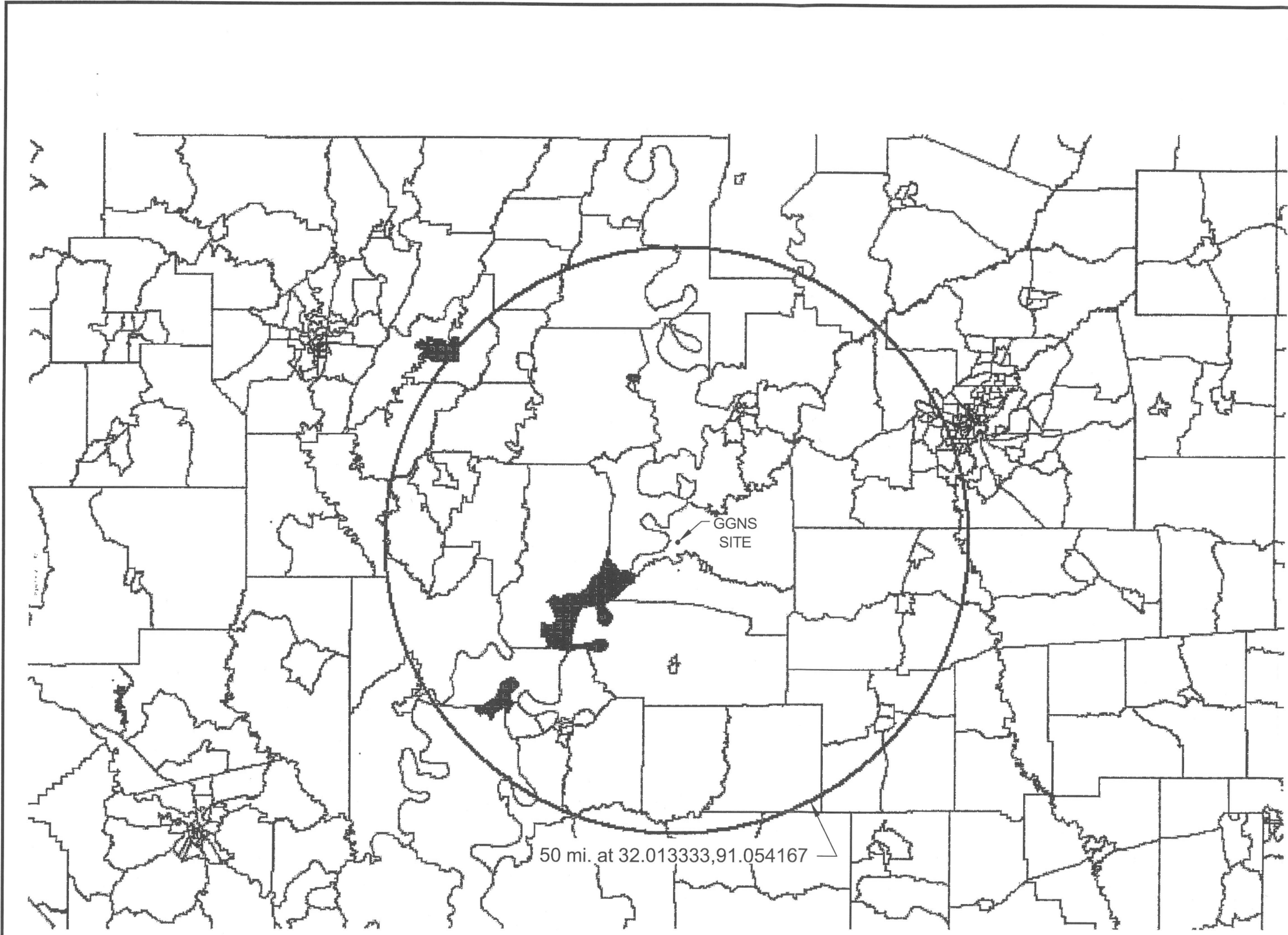
NOTES:

1. LOUISIANA STATE MINORITY POPULATION AVERAGE = 37.1 %.
2. 2000 CENSUS DATA USED.

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LOUISIANA STATE
 MINORITY POPULATION MAP
 FOR GGNS SITE REGION

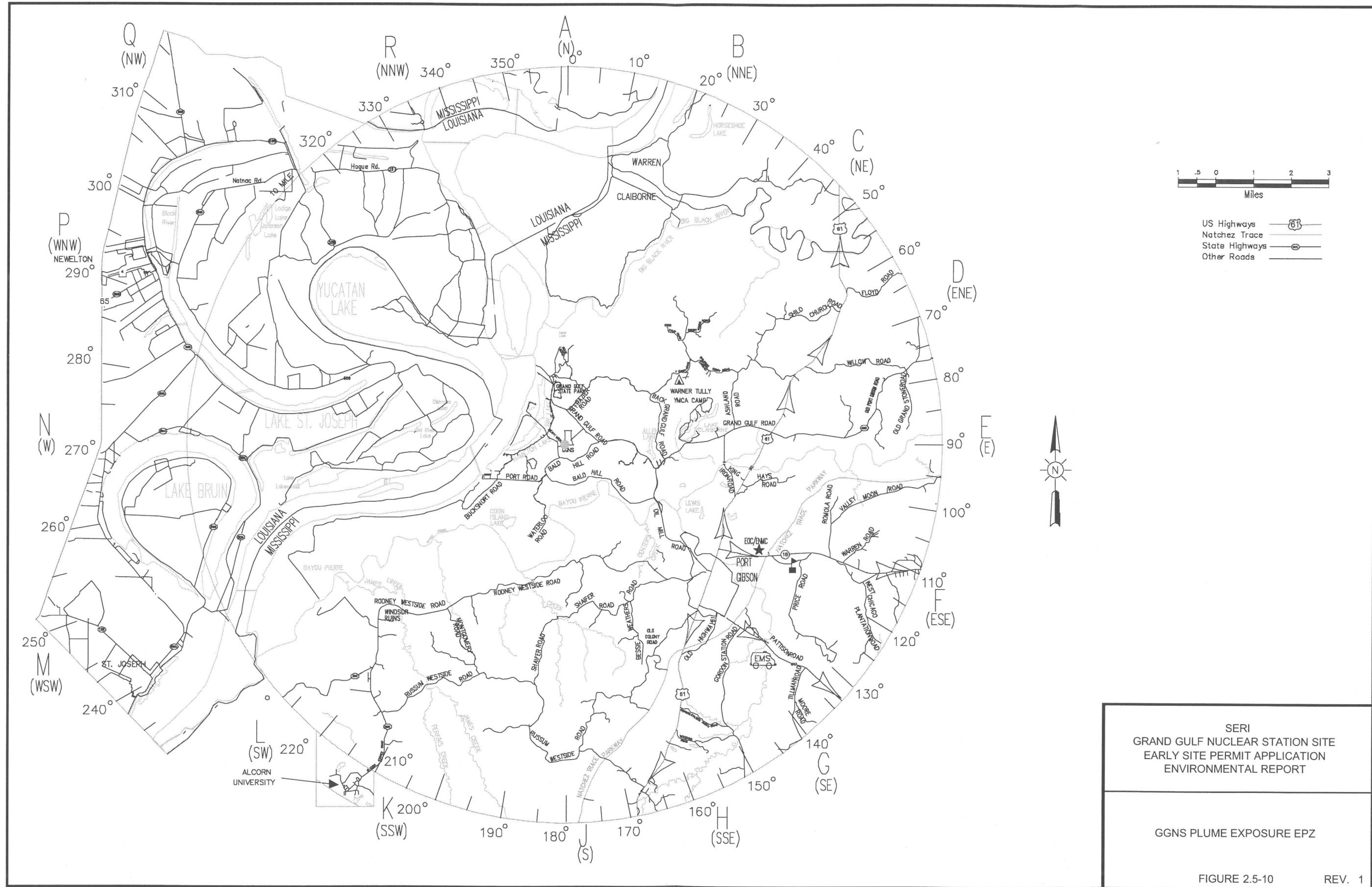




LEGEND:
 ■ LOW-INCOME POPULATION AREAS
 BASED ON LIC-203 DEFINITION &
 2000 US CENSUS TRACT DATA

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LOUISIANA
 LOW-INCOME POPULATION AREAS
 IN GGNS SITE REGION

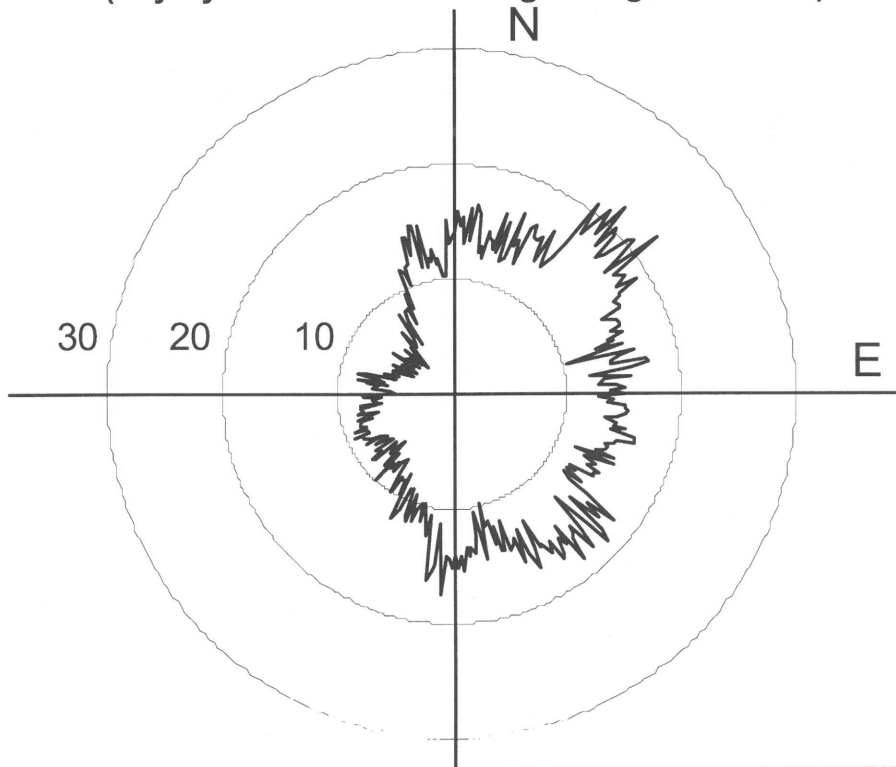


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GGNS PLUME EXPOSURE EPZ

GGNS Site Wind Rose, 2001-2003

(days/yr wind is from integer degree at 33 ft)



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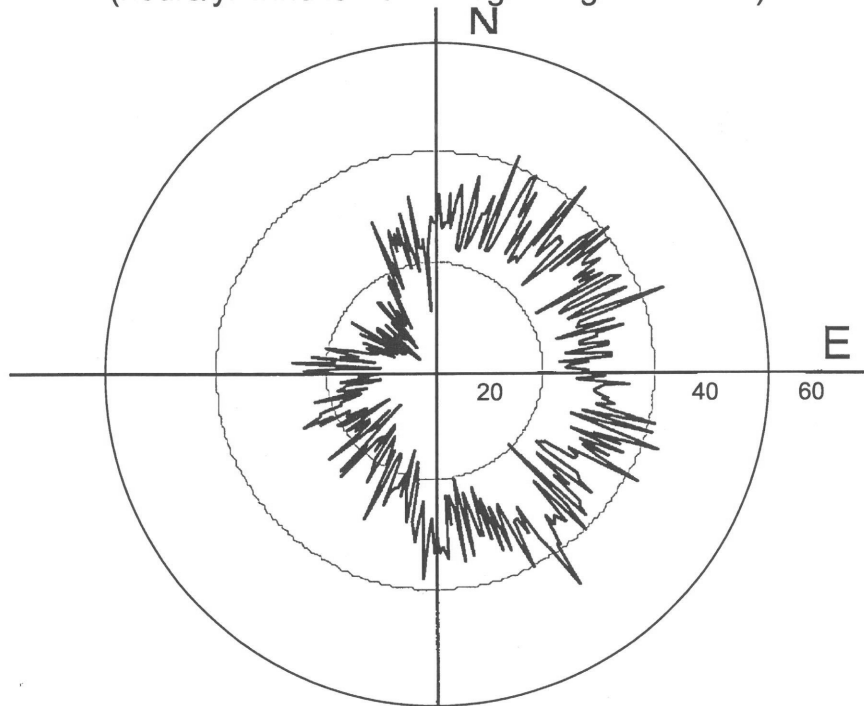
GGNS SITE WIND ROSE,
2001-2003

FIGURE 2.7-1

REV. 1

GGNS Site Wind Rose, 2001

(hours/yr wind is from integer degree at 33 ft)



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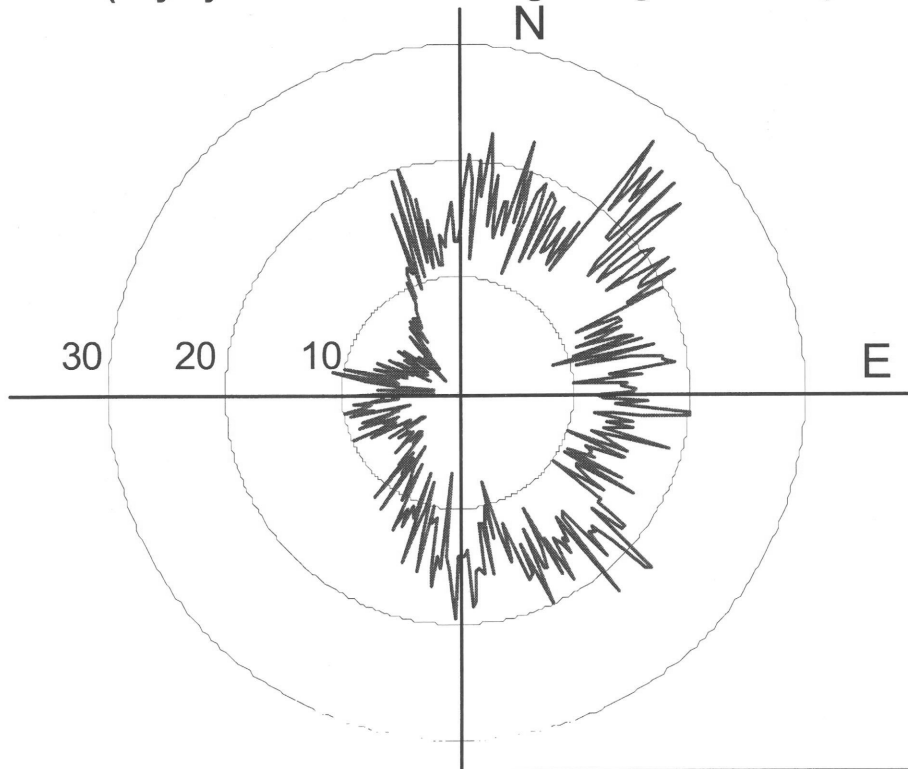
GGNS SITE WIND ROSE,
2001

FIGURE 2.7-2

REV. 1

GGNS Site Wind Rose, 2002

(days/yr wind is from integer degree at 33 ft)



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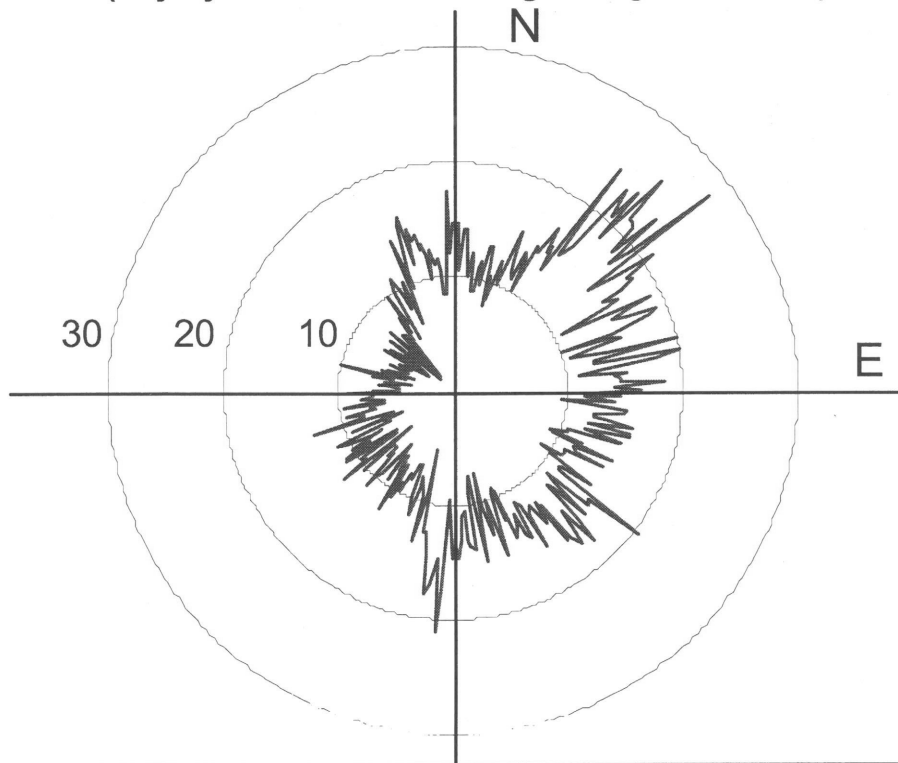
GGNS SITE WIND ROSE,
2002

FIGURE 2.7-3

REV. 1

GGNS Site Wind Rose, 2003

(days/yr wind is from integer degree at 33 ft)



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GGNS SITE WIND ROSE,
2003

FIGURE 2.7-4

REV. 1

DELETED

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FIGURE 2.7-5

REV. 1

DELETED

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FIGURE 2.7-6

REV. 1

DELETED

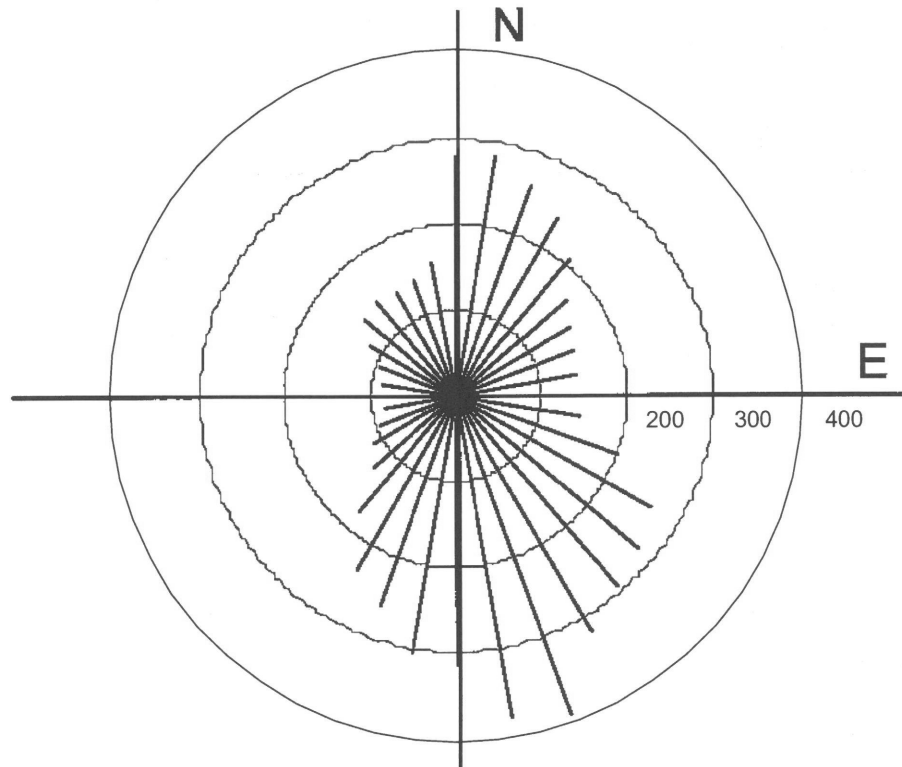
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FIGURE 2.7-7

REV. 1

Vicksburg Wind Rose, 1997-2001

(hours/yr wind is from nearest 10 degrees)



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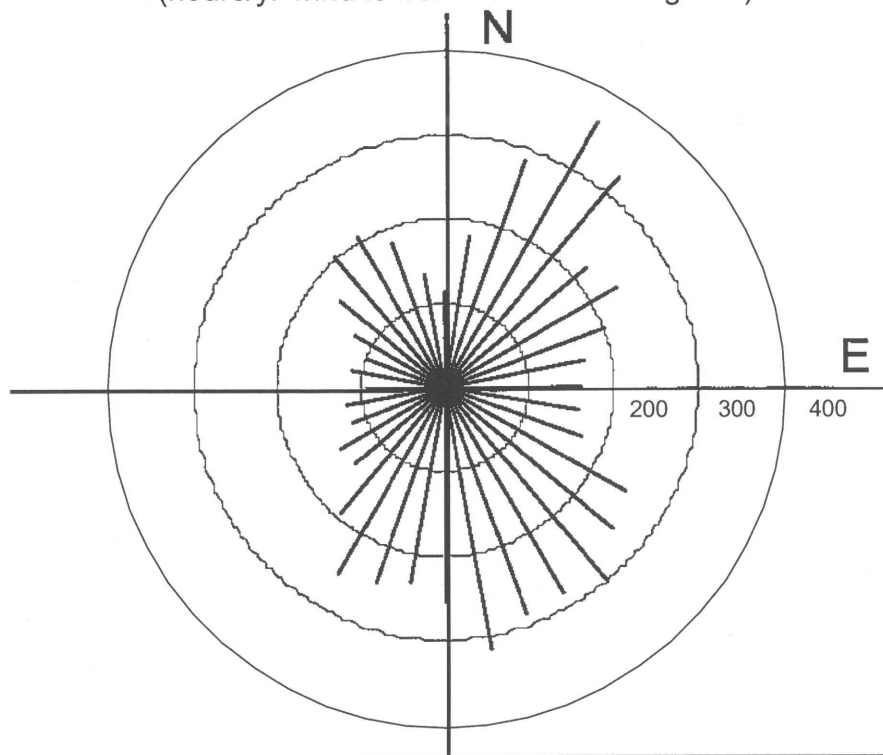
VICKSBURG WIND ROSE,
1997-2001

FIGURE 2.7-8

REV. 1

Vicksburg Wind Rose, 1997

(hours/yr wind is from nearest 10 degrees)



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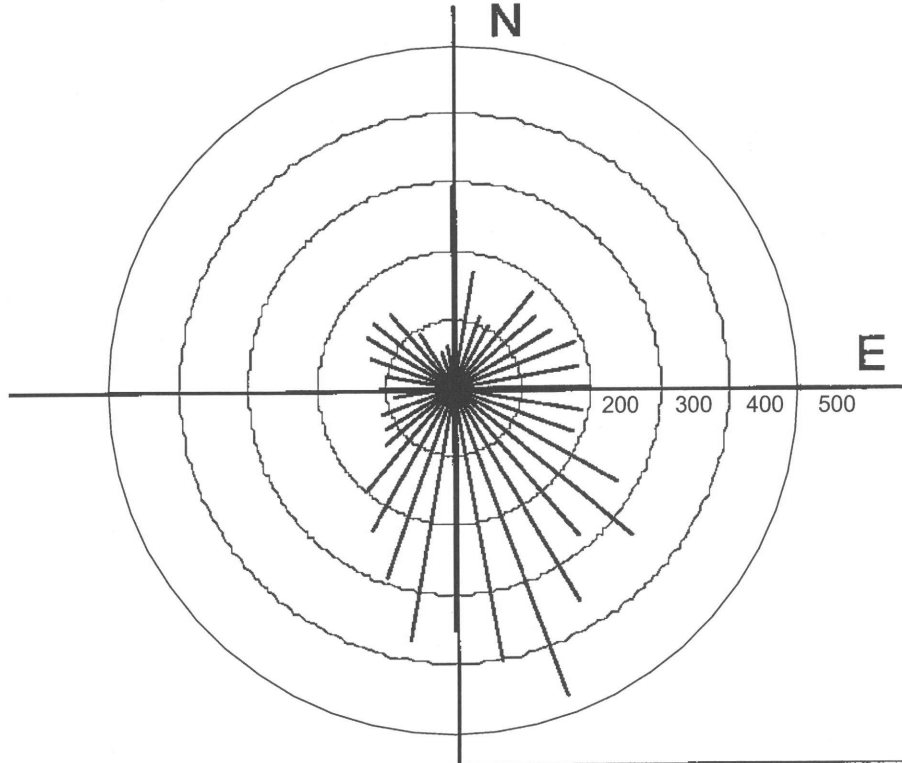
VICKSBURG WIND ROSE,
1997

FIGURE 2.7-9

REV. 1

Vicksburg Wind Rose, 1998

(hours/yr wind is from nearest 10 degrees)



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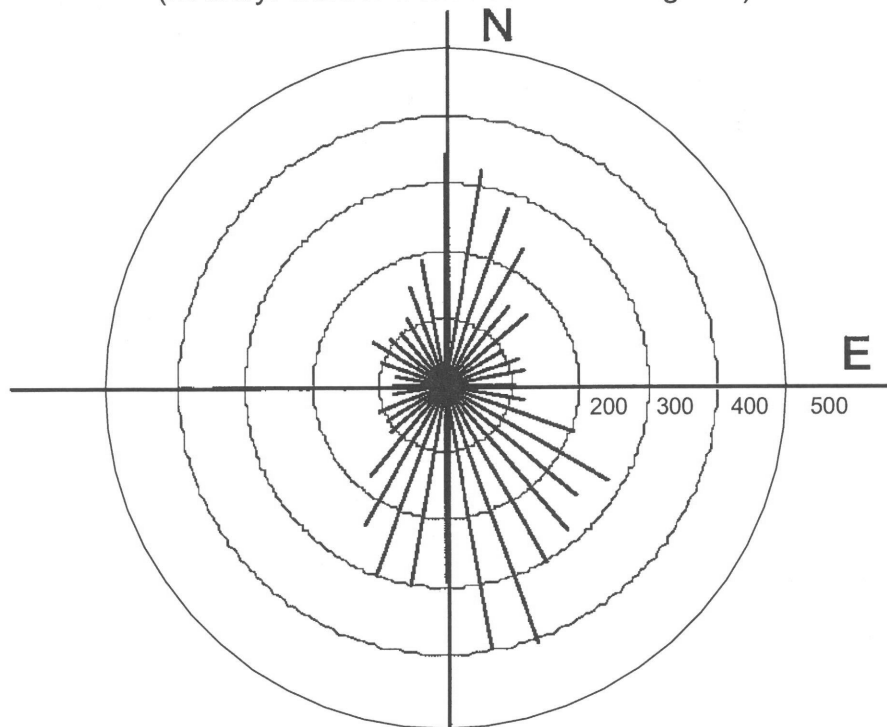
VICKSBURG WIND ROSE,
1998

FIGURE 2.7-10

REV. 1

Vicksburg Wind Rose, 1999

(hours/yr wind is from nearest 10 degrees)



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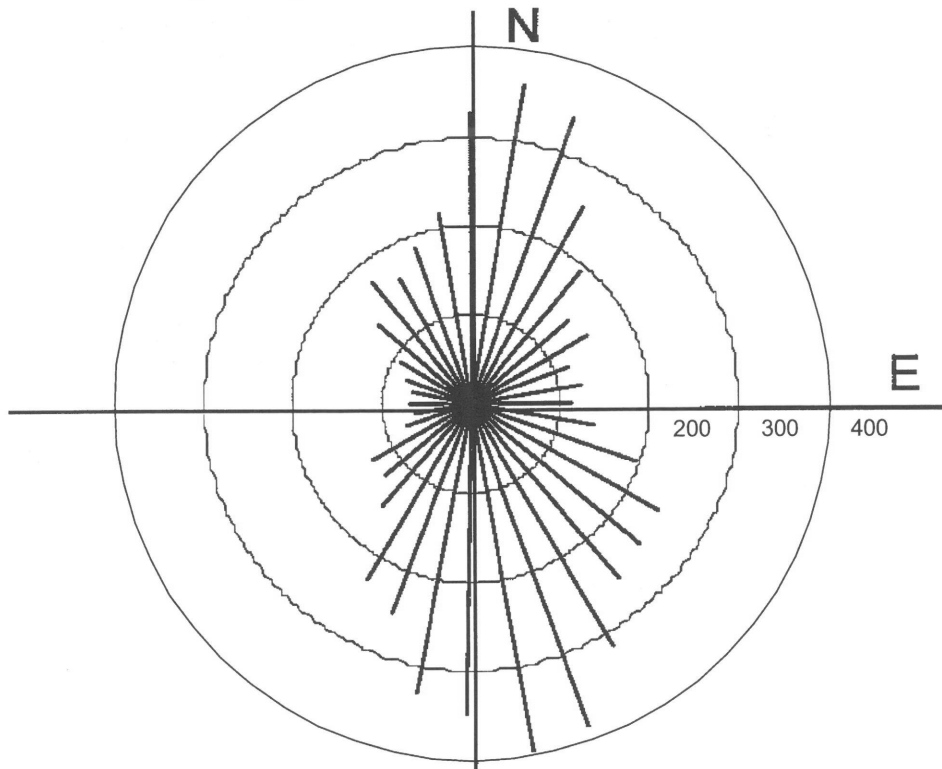
VICKSBURG WIND ROSE,
1999

FIGURE 2.7-11

REV. 1

Vicksburg Wind Rose, 2000

(hours/yr wind is from nearest 10 degrees)



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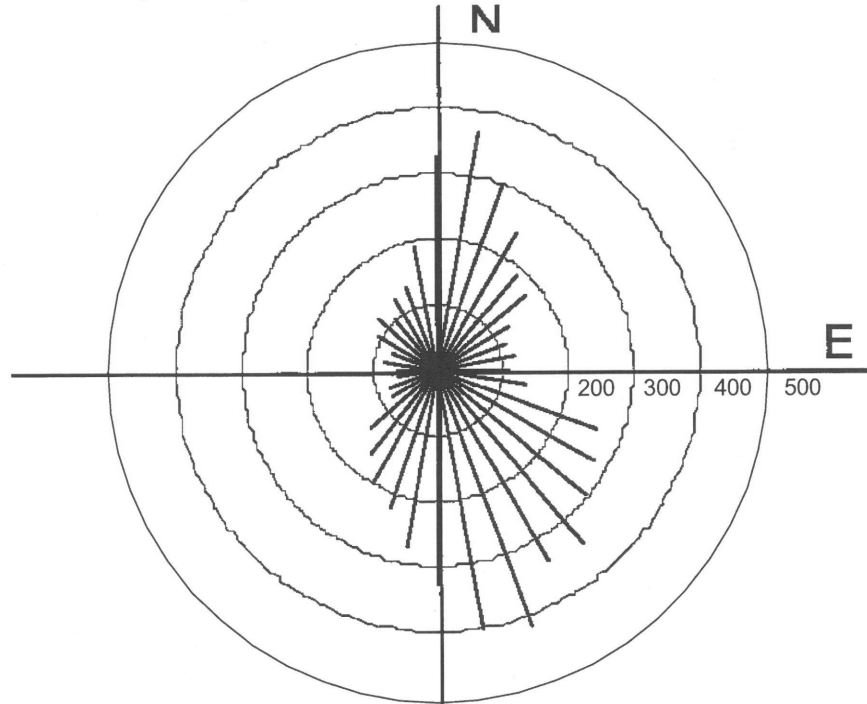
VICKSBURG WIND ROSE,
2000

FIGURE 2.7-12

REV. 1

Vicksburg Wind Rose, 2001

(hours/yr wind is from nearest 10 degrees)



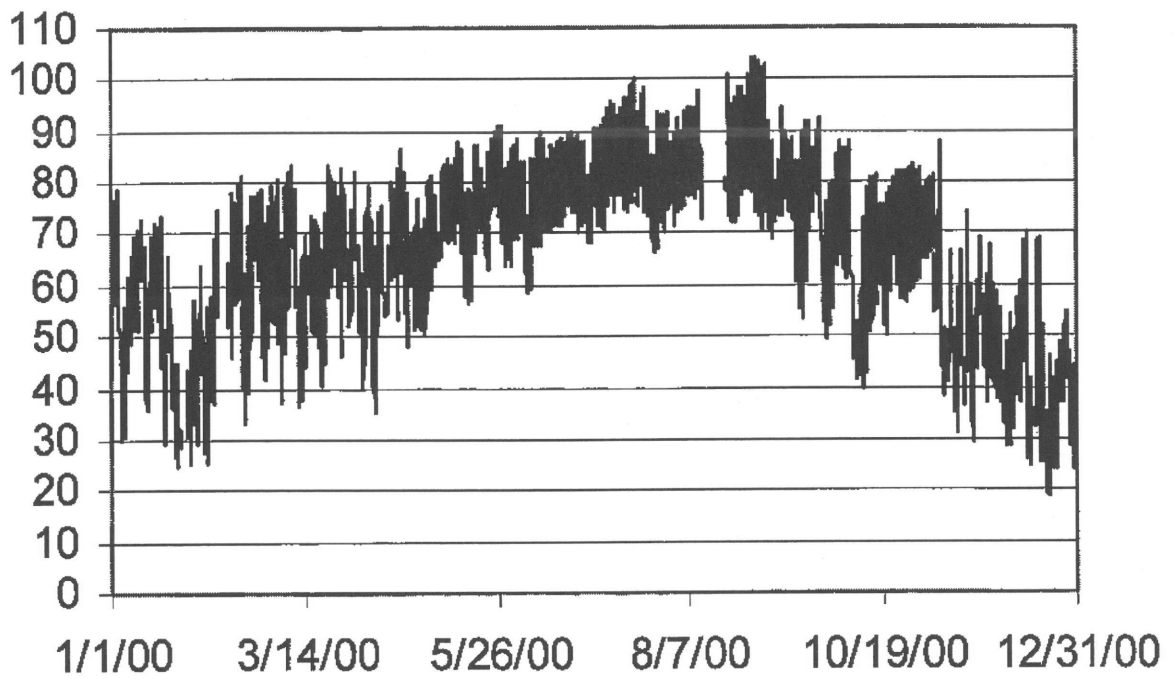
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VICKSBURG WIND ROSE,
2001

FIGURE 2.7-13

REV. 1

2000
Hourly Temperatures (degrees F)



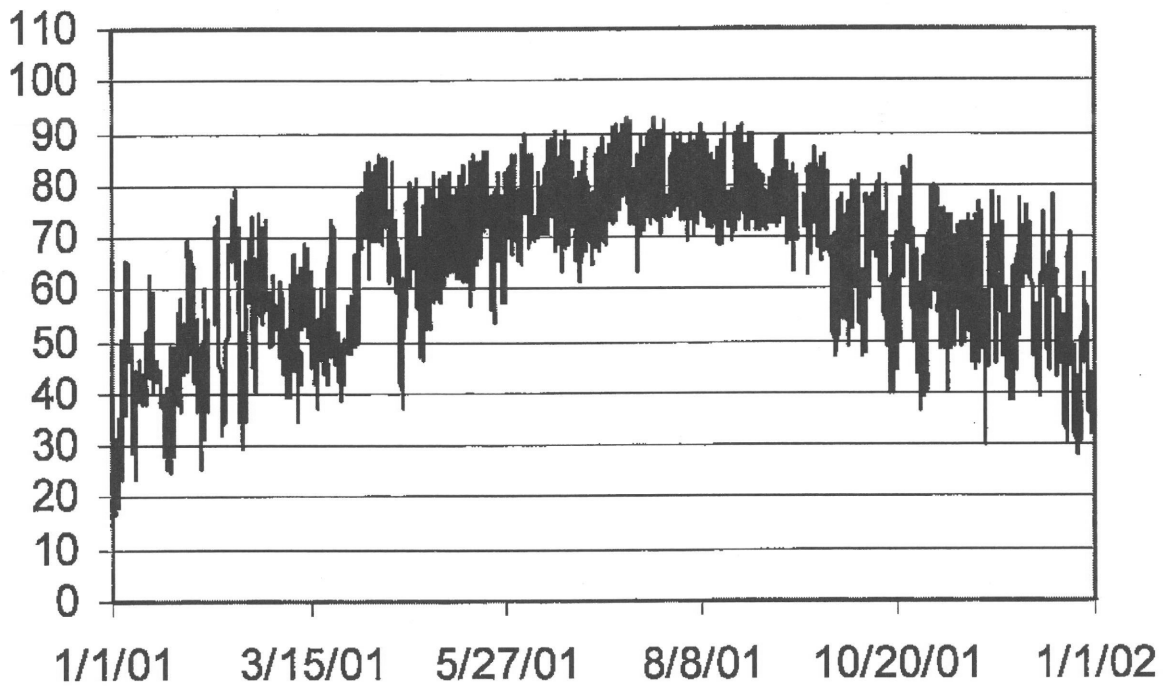
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GGNS SITE 2000
HOURLY TEMPERATURES
(DEGREES F)

FIGURE 2.7-14

REV. 1

**Grand Gulf Site
2001 Hourly Temperatures (degrees F)**

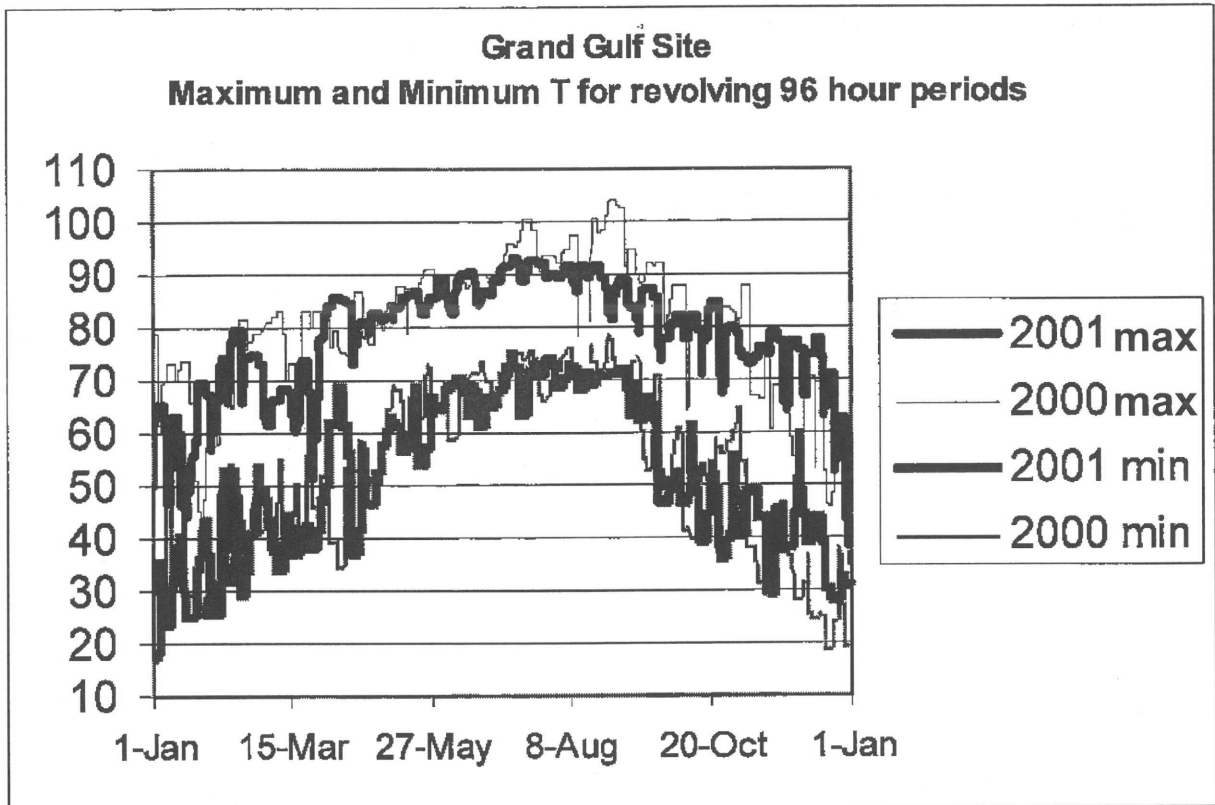


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GGNS SITE 2001
HOURLY TEMPERATURES
(DEGREES F)

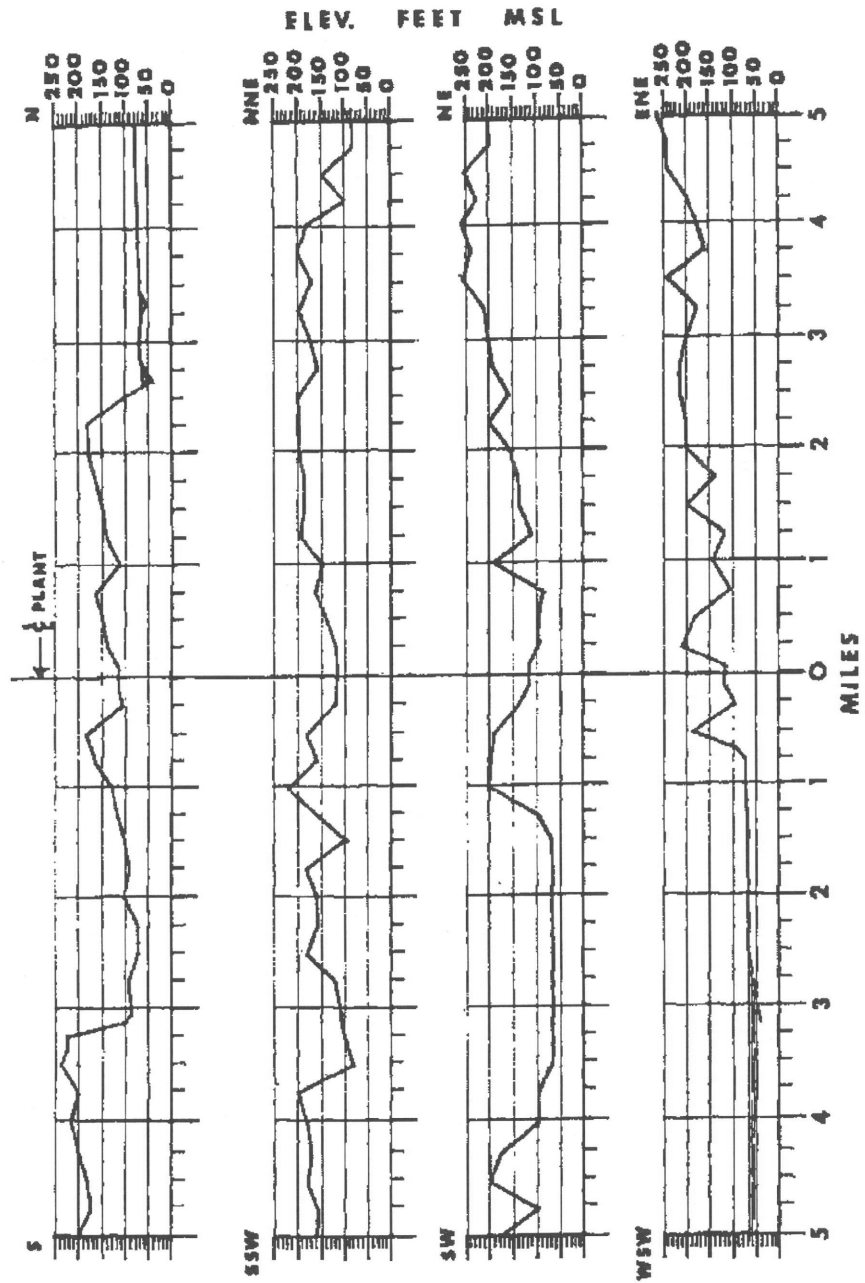
FIGURE 2.7-15

REV. 1



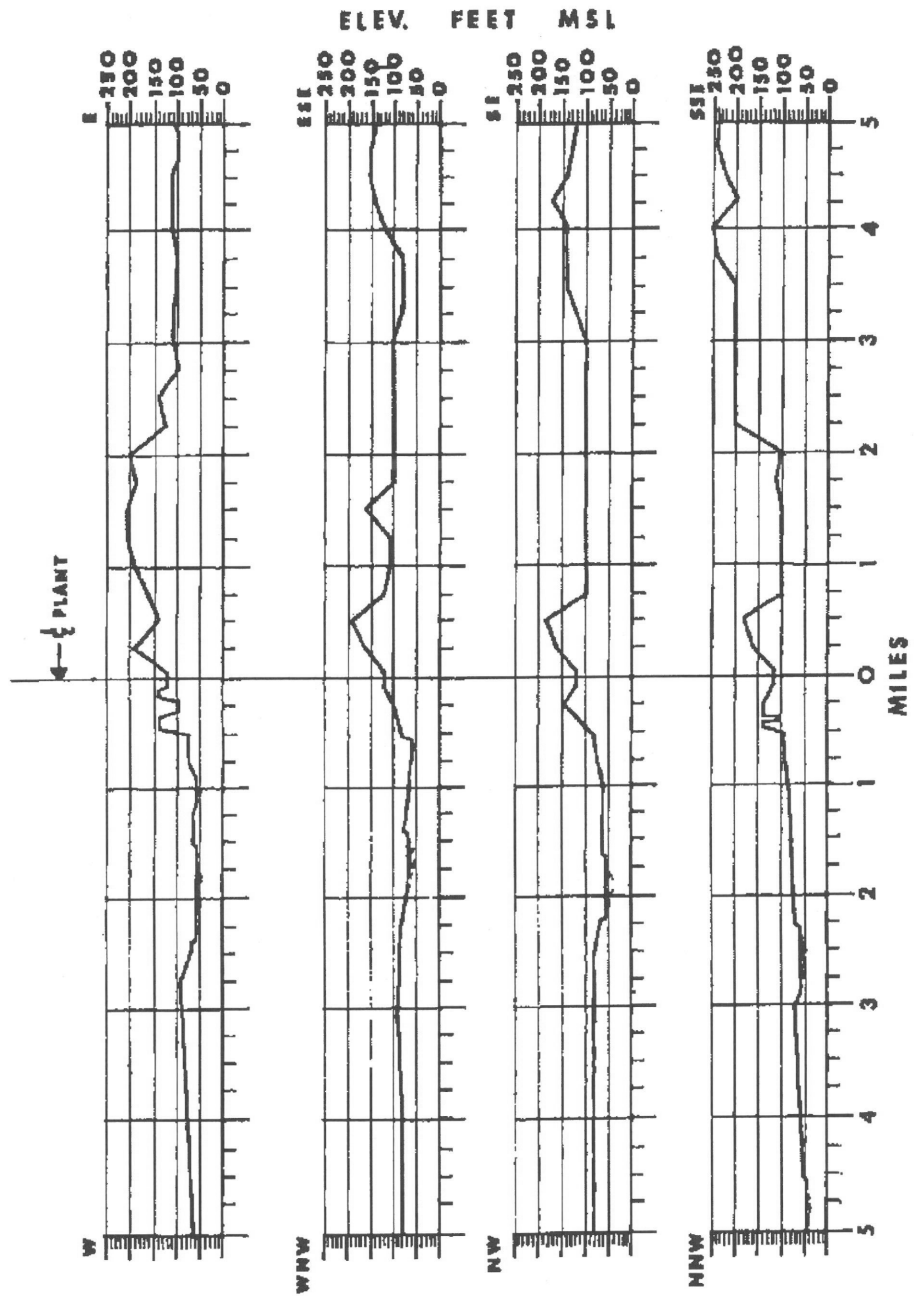
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GGNS SITE
MAXIMUM AND MINIMUM TEMPERATURE
FOR REVOLVING 96 HOUR PERIODS



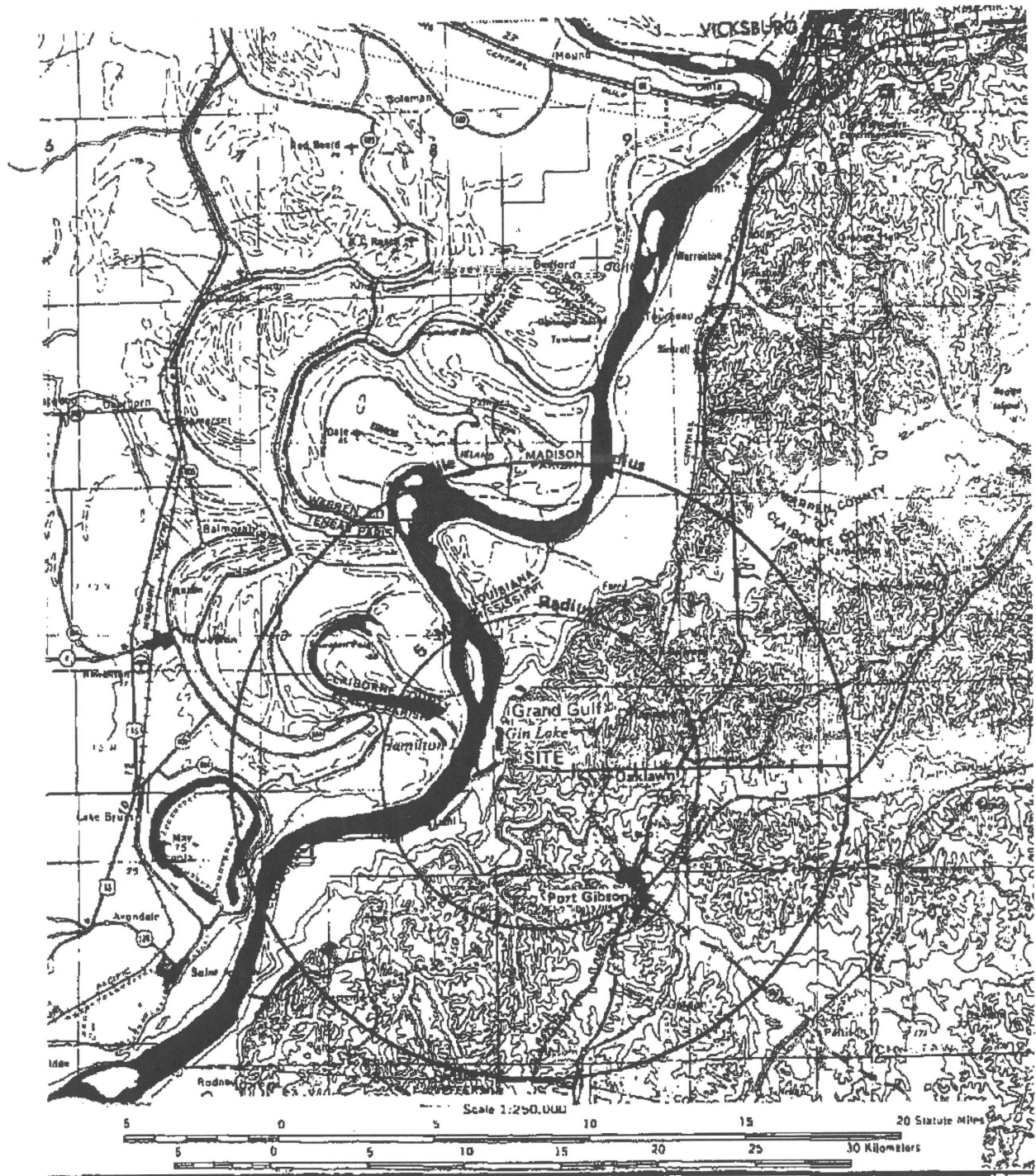
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TOPOGRAPHIC PROFILES
 (UFSAR FIGURE 2.3-8)



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TOPOGRAPHIC PROFILES
 (UFSAR FIGURE 2.3-9)



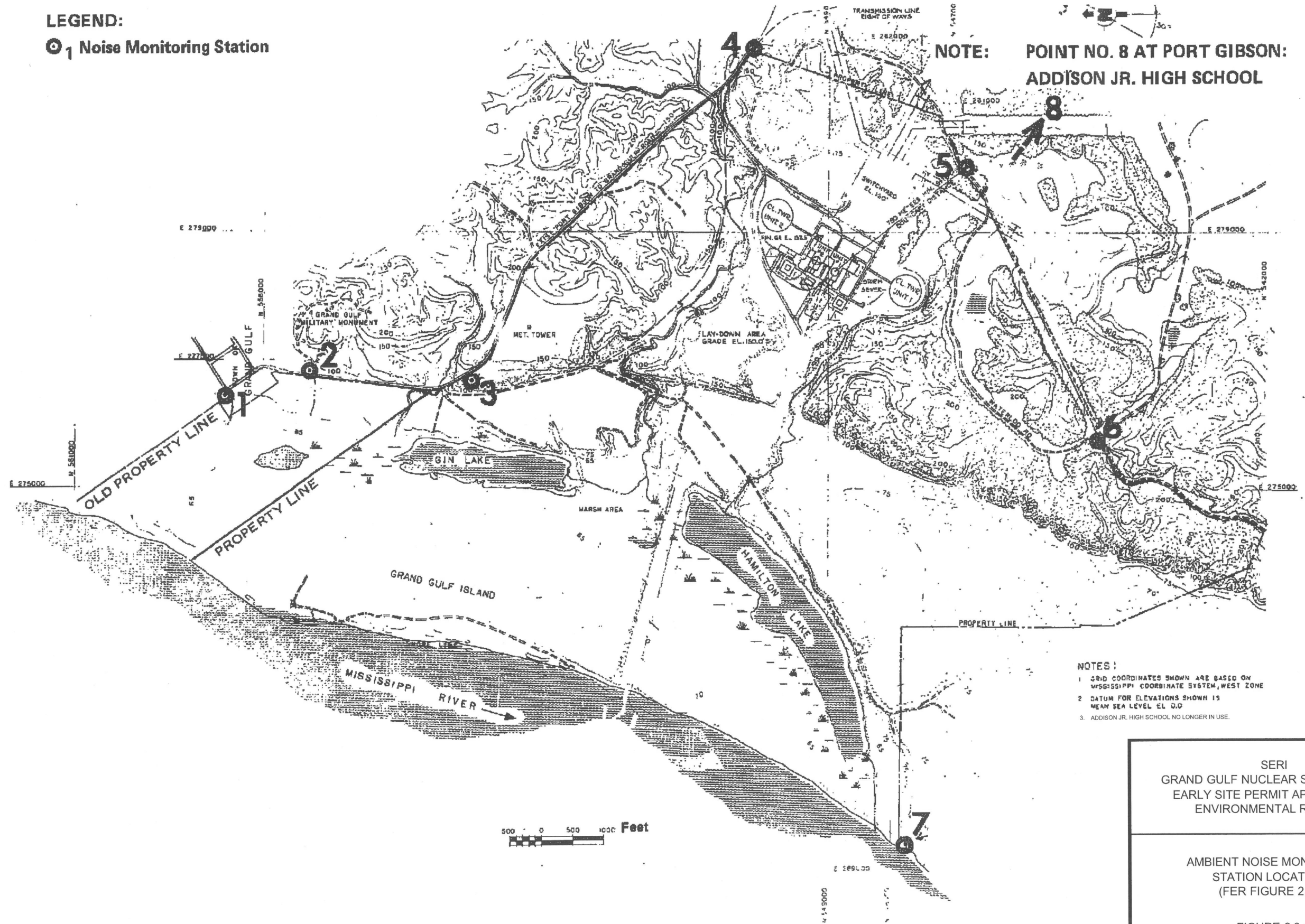
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TOPOGRAPHIC PLAN OF AREA
 WITHIN 5 AND 10 MILES OF PLANT
 (UFSAR FIGURE 2.3-10)

LEGEND:

① Noise Monitoring Station

**NOTE: POINT NO. 8 AT PORT GIBSON:
ADDISON JR. HIGH SCHOOL**

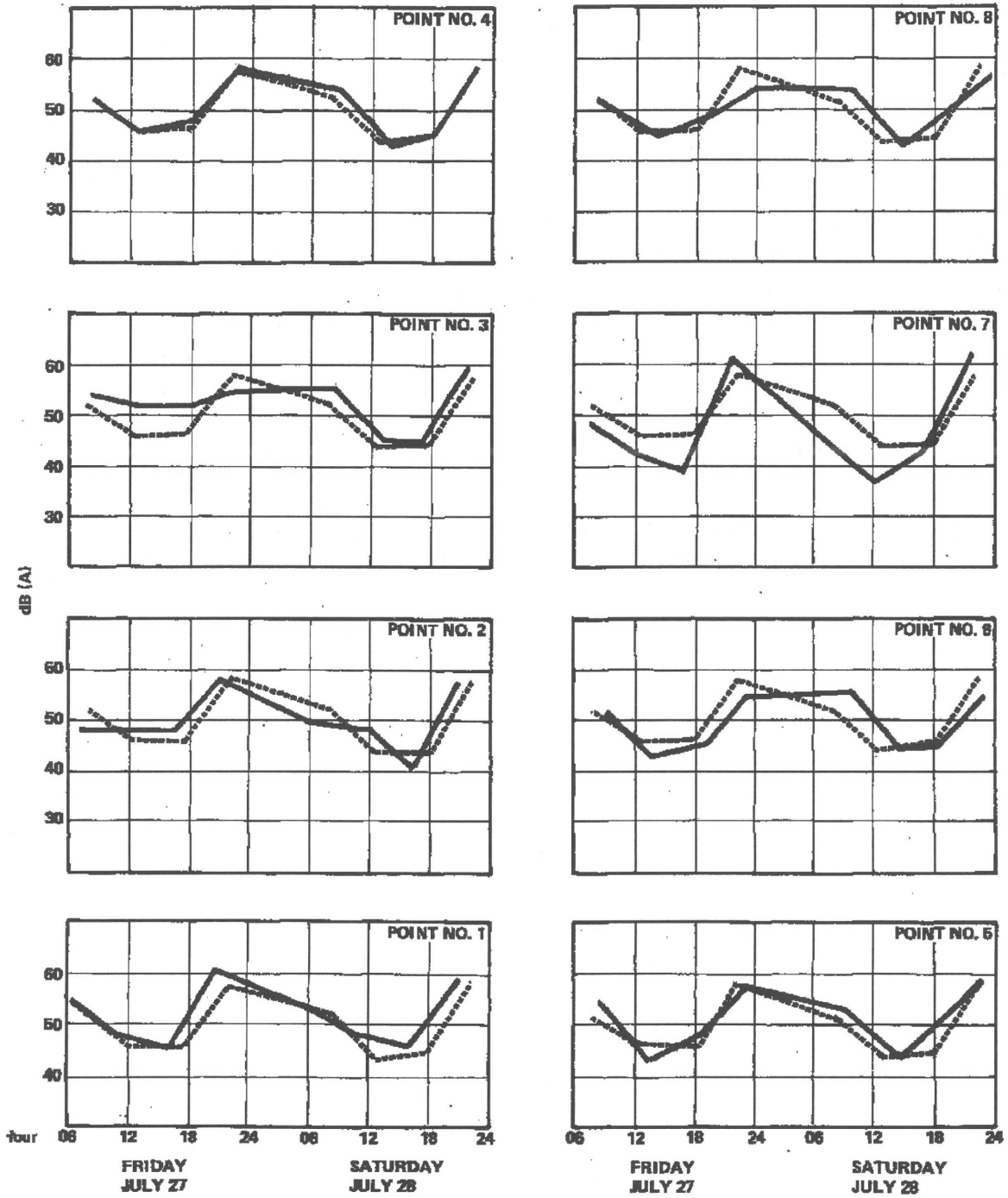


- NOTES:**
- 1 GRID COORDINATES SHOWN ARE BASED ON MISSISSIPPI COORDINATE SYSTEM, WEST ZONE
 - 2 DATUM FOR ELEVATIONS SHOWN IS MEAN SEA LEVEL EL. 0.0
 - 3. ADDISON JR. HIGH SCHOOL NO LONGER IN USE.

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AMBIENT NOISE MONITORING
STATION LOCATIONS
(FER FIGURE 2.7-1)

FIGURE 2.8-1 REV. 1



——— ACTUAL dB (A) LEVEL (EACH MONITORING POINT)
 - - - - AVERAGE dB (A) LEVEL (MONITORING POINTS 1 THRU 7)

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DIEL VARIATION dB(A)
 BACKGROUND NOISE LEVEL
 (FER FIGURE 2.7-2)