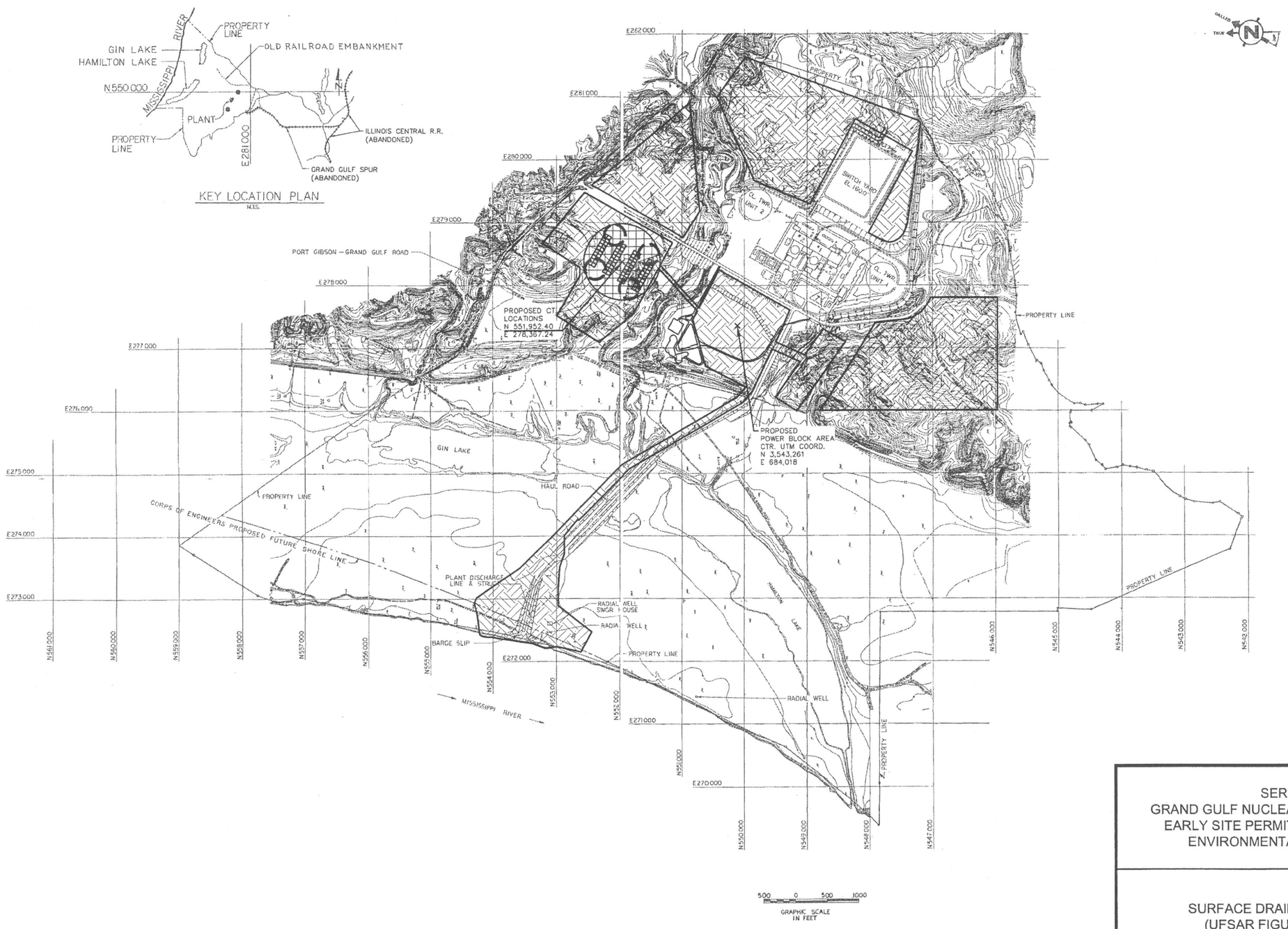

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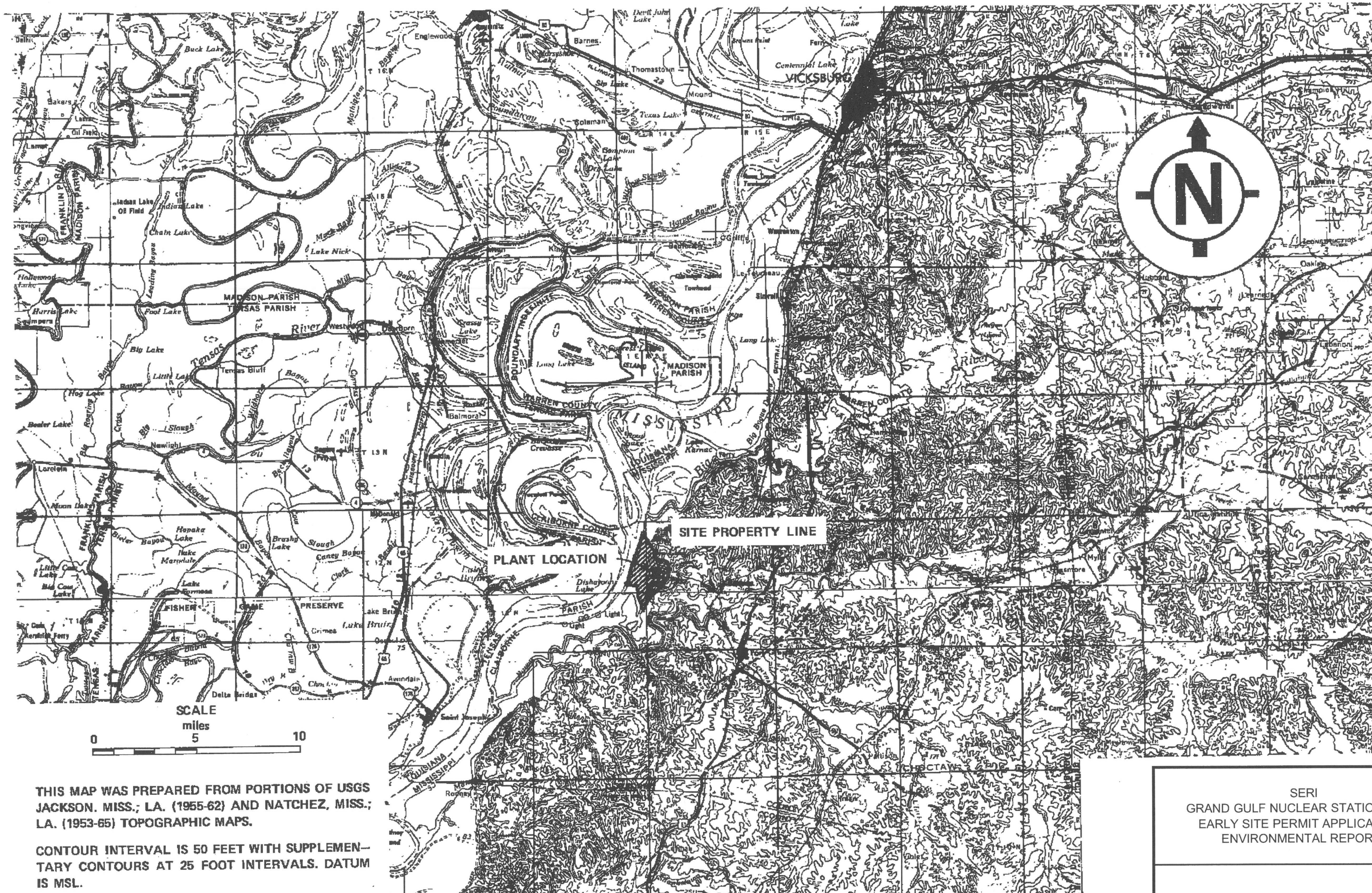
SURFACE DRAINAGE PLAN
(UFSAR FIGURE 2.4-1)

FIGURE 2.3-1 REV. 1



THIS MAP WAS PREPARED FROM PORTIONS OF USGS JACKSON. MISS.; LA. (1955-62) AND NATCHEZ, MISS.; LA. (1953-65) TOPOGRAPHIC MAPS.

CONTOUR INTERVAL IS 50 FEET WITH SUPPLEMENTARY CONTOURS AT 25 FOOT INTERVALS. DATUM IS MSL.

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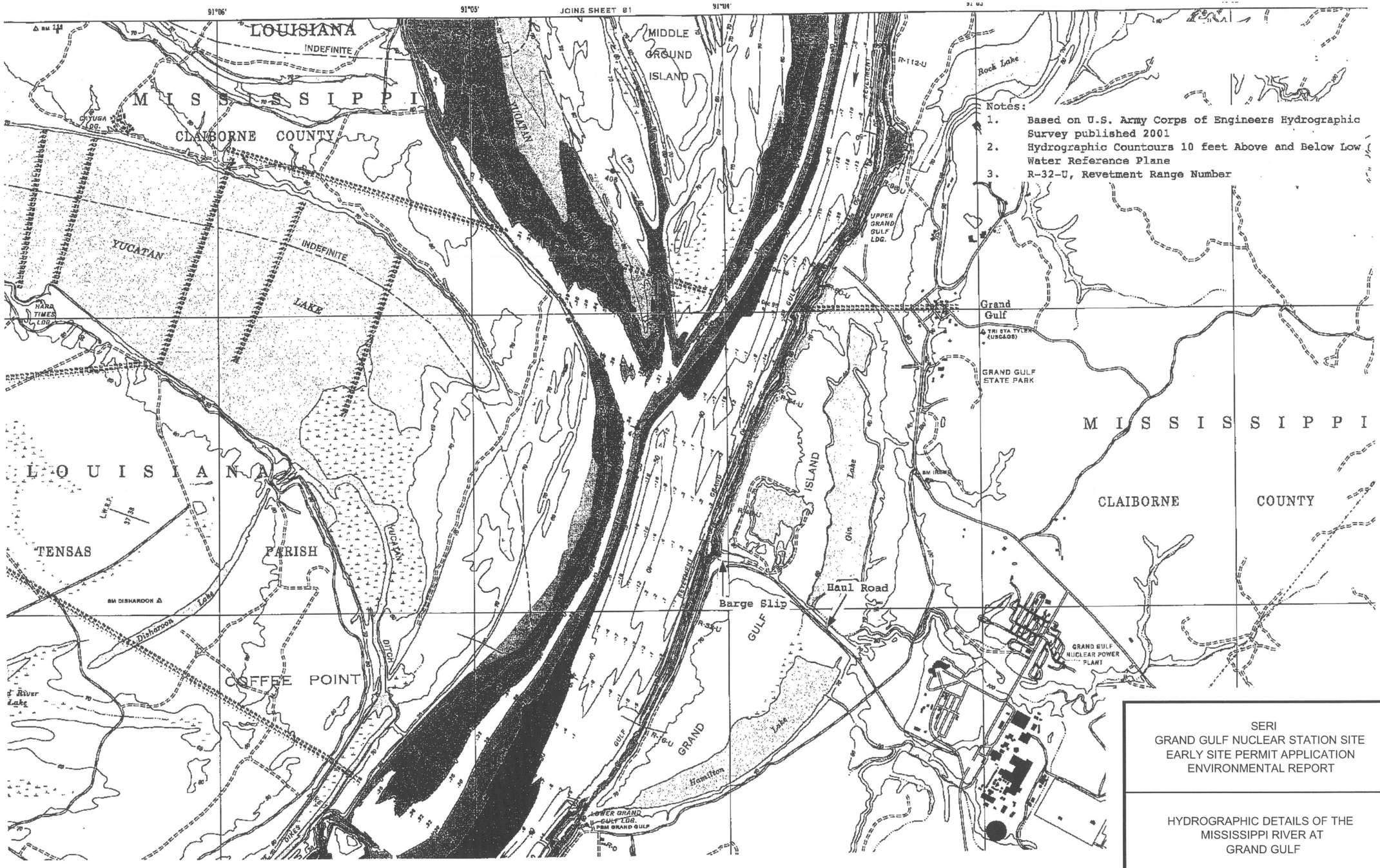
REGIONAL TOPOGRAPHY
(FER FIGURE 2.4-1)

FIGURE 2.3-2 REV. 1



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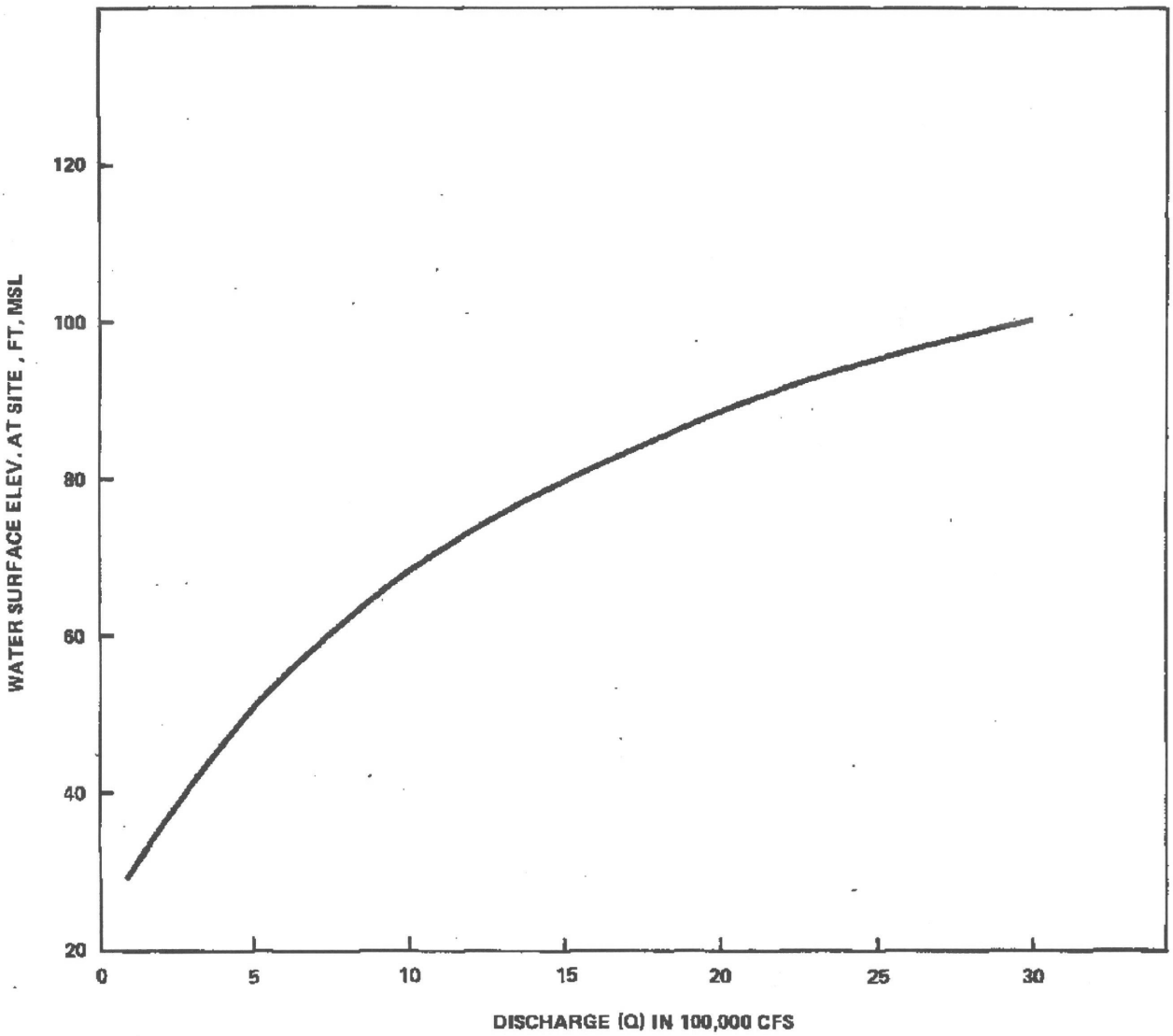
HYDROGRAPHIC DETAILS OF THE
MISSISSIPPI RIVER AT
GRAND GULF

FIGURE 2.3-3 REV. 1



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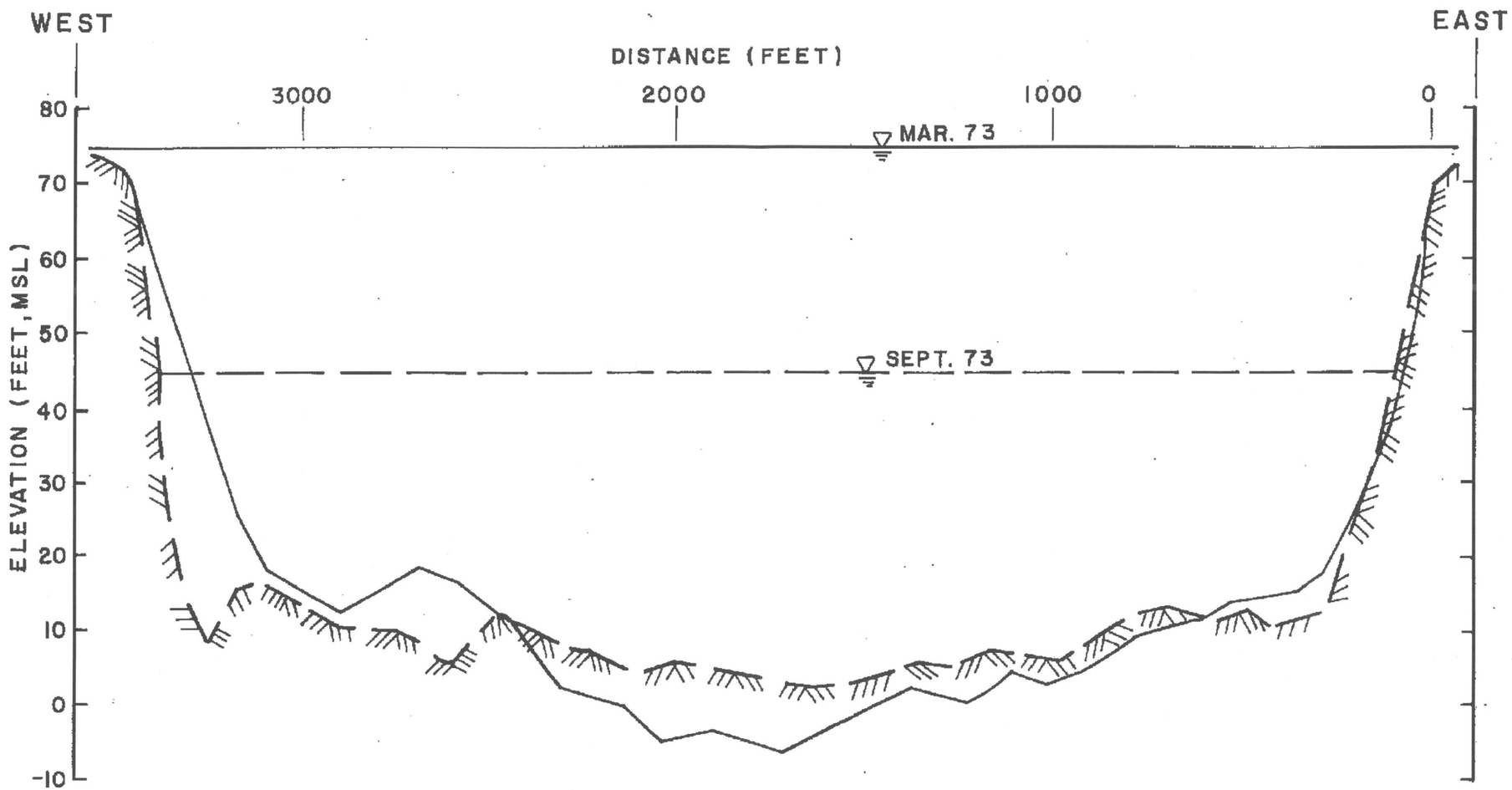
RATING CURVE FOR THE MISSISSIPPI
RIVER AT GRAND GULF SITE
(FER FIGURE 2.4-5)

FIGURE 2.3-4 REV. 1



NOTE:

CROSS SECTIONS SHOWN LOOKING UPSTREAM.

LEGEND:

SURVEY MARCH 19, 1973

SURVEY SEPTEMBER 24, 1973

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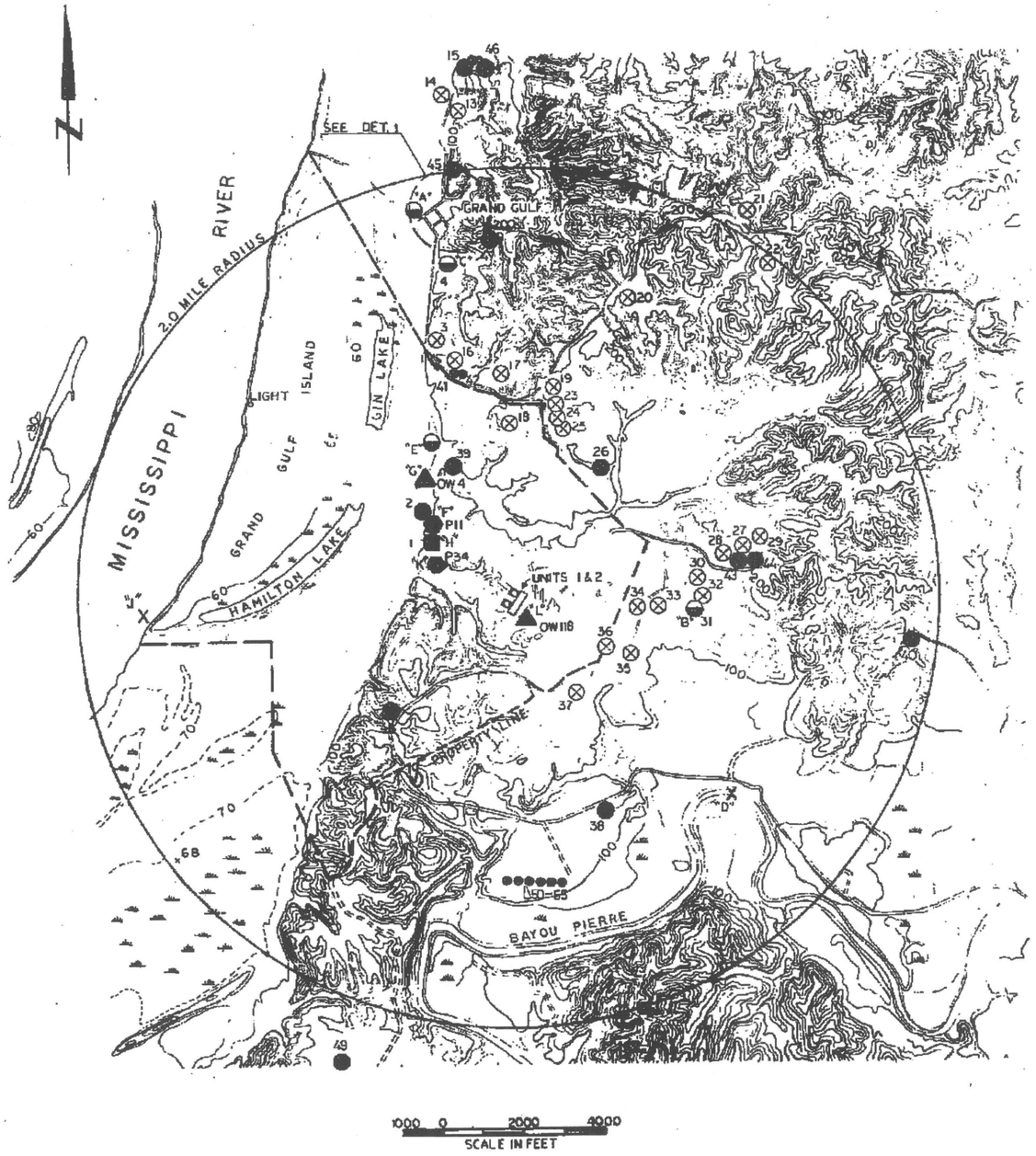
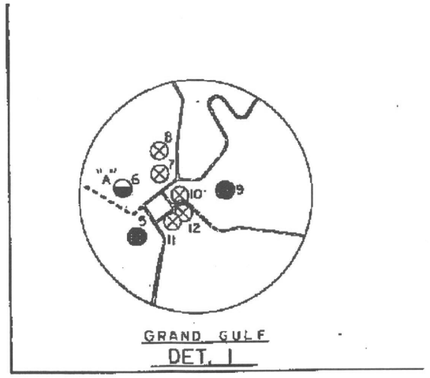
CHANNEL CROSS SECTIONS
OF THE MISSISSIPPI RIVER IN THE
VICINITY OF THE DISCHARGE STRUCTURE
(FER FIGURE 2.4-3)

FIGURE 2.3-5 REV. 1





LEGEND

- WATER WELL - UNSAMPLED
- WATER WELL - SAMPLED
- RAIN WATER CISTERN
- TEST WATER WELL - SAMPLED
- "G" OW 4 — OBSERVATION WELL-SAMPLED
- "F" P11 — PIEZOMETER - SAMPLED
- "D" X — SURFACE WATER SAMPLE

NOTES

1. FOR TABULATION OF WATER USERS, SEE FER TABLE 2.4-23 CHEMICAL ANALYSIS OF WATER SAMPLES PRESENTED IN TABLE 2.3-31 (FER TABLE 2.4-21).

REFERENCES

USGS QUADRANGLES: GRAND GULF MISS.-LA., 1963
SAINT JOSEPH MISS.-LA., 1958

GENERAL HIGHWAY MAP, CLAIBORNE CO., MISSISSIPPI, 1967

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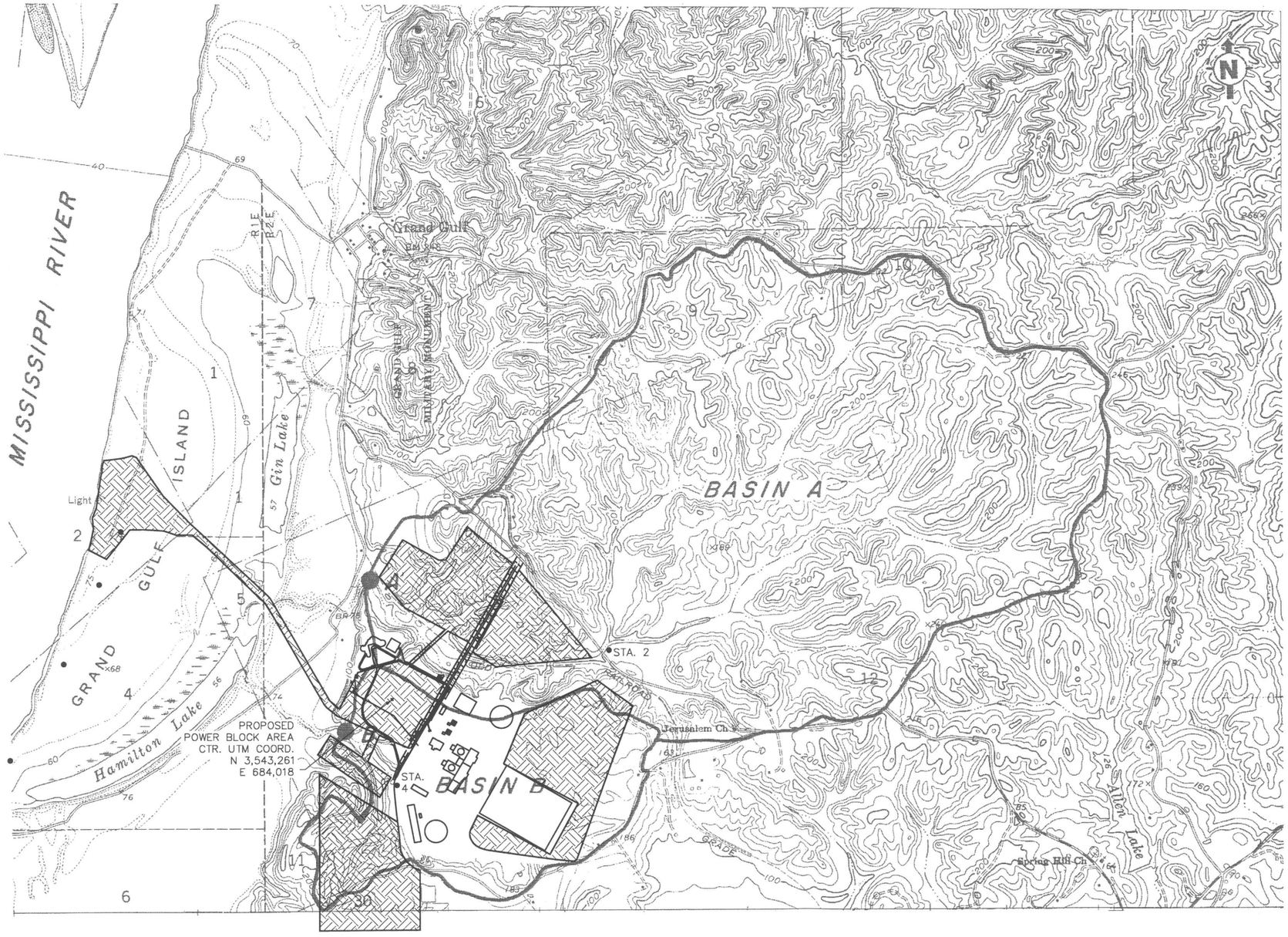
INITIAL WATER SAMPLING LOCATIONS
(FER FIGURE 2.4-10)

FIGURE 2.3-6 REV. 1



Adapted from U.S.G.S. 7.5 Minute Topographic Sheet 1963 Series

1,000 0 2,000
Scale in Feet

NOTES:

1. GGNS UNIT 1 FACILITIES ADDED FOR REFERENCE.

LEGEND:

PROPOSED NEW FACILITY CONSTRUCTION AREAS

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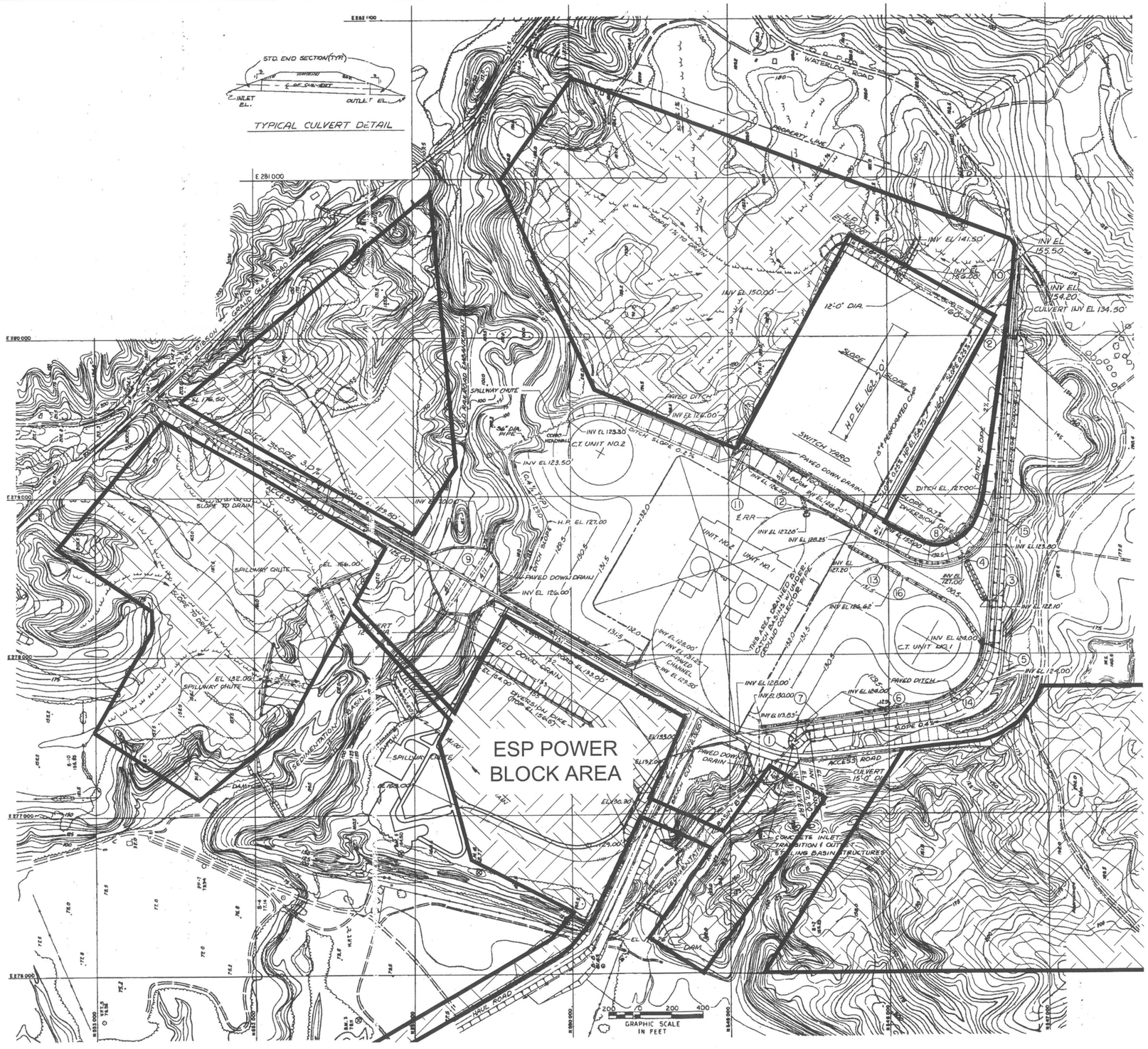
LOCAL DRAINAGE BASINS
(UFSAR FIGURE 2.4-8)

FIGURE 2.3-7 REV. 1



LEGEND:

- GRASS LINED DITCHES
- GRASS LINED WATERWAYS
- PAVED DITCHES (3" GUNNITE OR 4" CONCRETE
- SPILLWAY CHUTES (CMP WITH BASIN)
- PAVED DOWN DRAIN
- RAILROAD
- CULVERTS
- PROPOSED NEW FACILITY CONSTRUCTION AREAS.

NOTES:

1. STRUCTURES FOR GGNS UNIT 2 ARE FOR INFORMATION ONLY, SINCE CONSTRUCTION OF UNIT 2 WAS SUSPENDED ON 8/21/91.
2. RAILROAD DATA AND LOCATIONS ARE FOR INFORMATION ONLY TO IDENTIFY LOCATION OF ORIGINAL RR BED. MOST OF THE RR HAS BEEN REMOVED.

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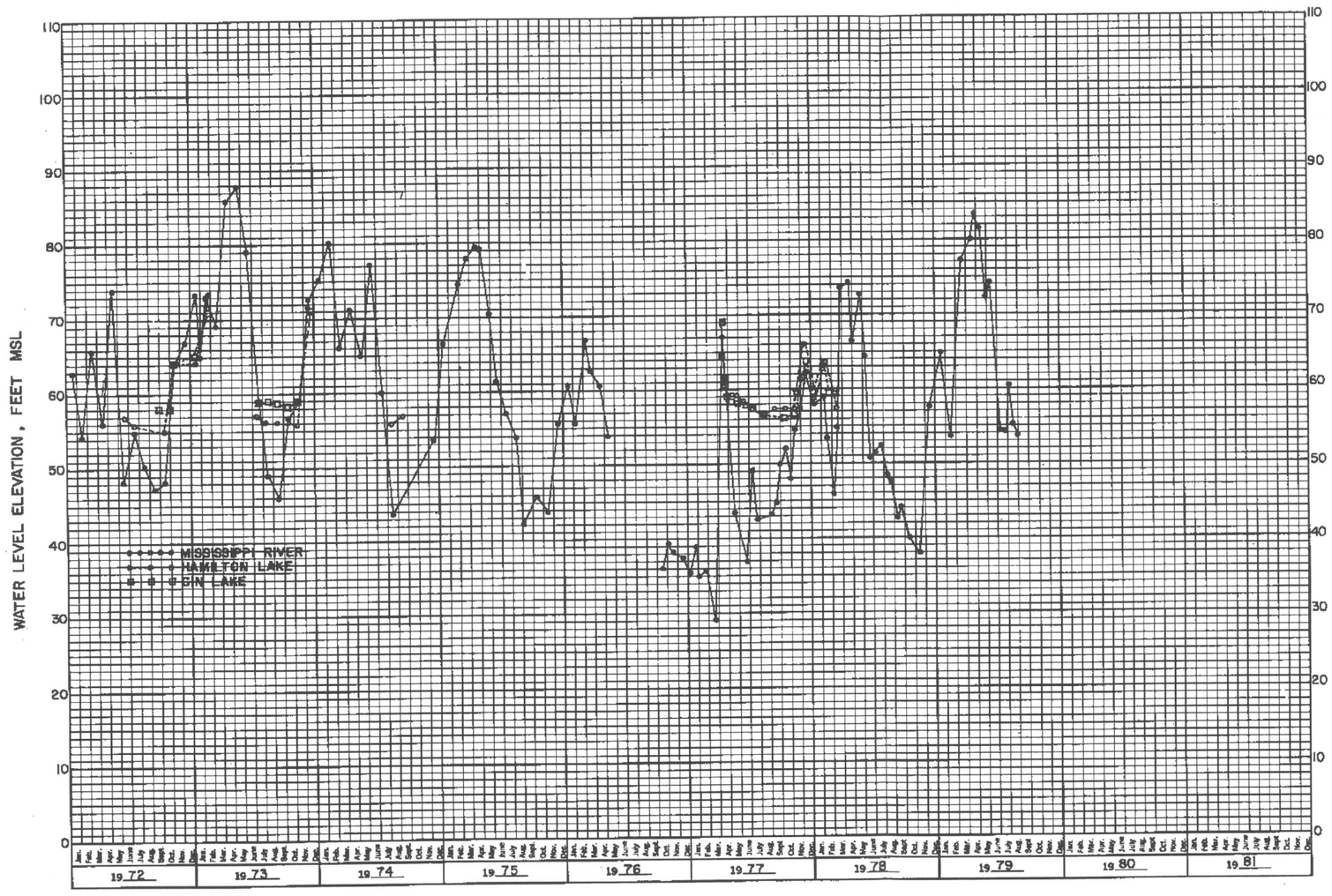
SITE DRAINAGE PLAN
(UFSAR FIGURE 2.4-7)

FIGURE 2.3-8 REV. 1



NOTES:
1. LOCATIONS OF MISSISSIPPI RIVER, HAMILTON & GIN LAKES ARE SHOWN IN FIGURE 2.3-20 (UFSAR FIGURE 2.4-27).

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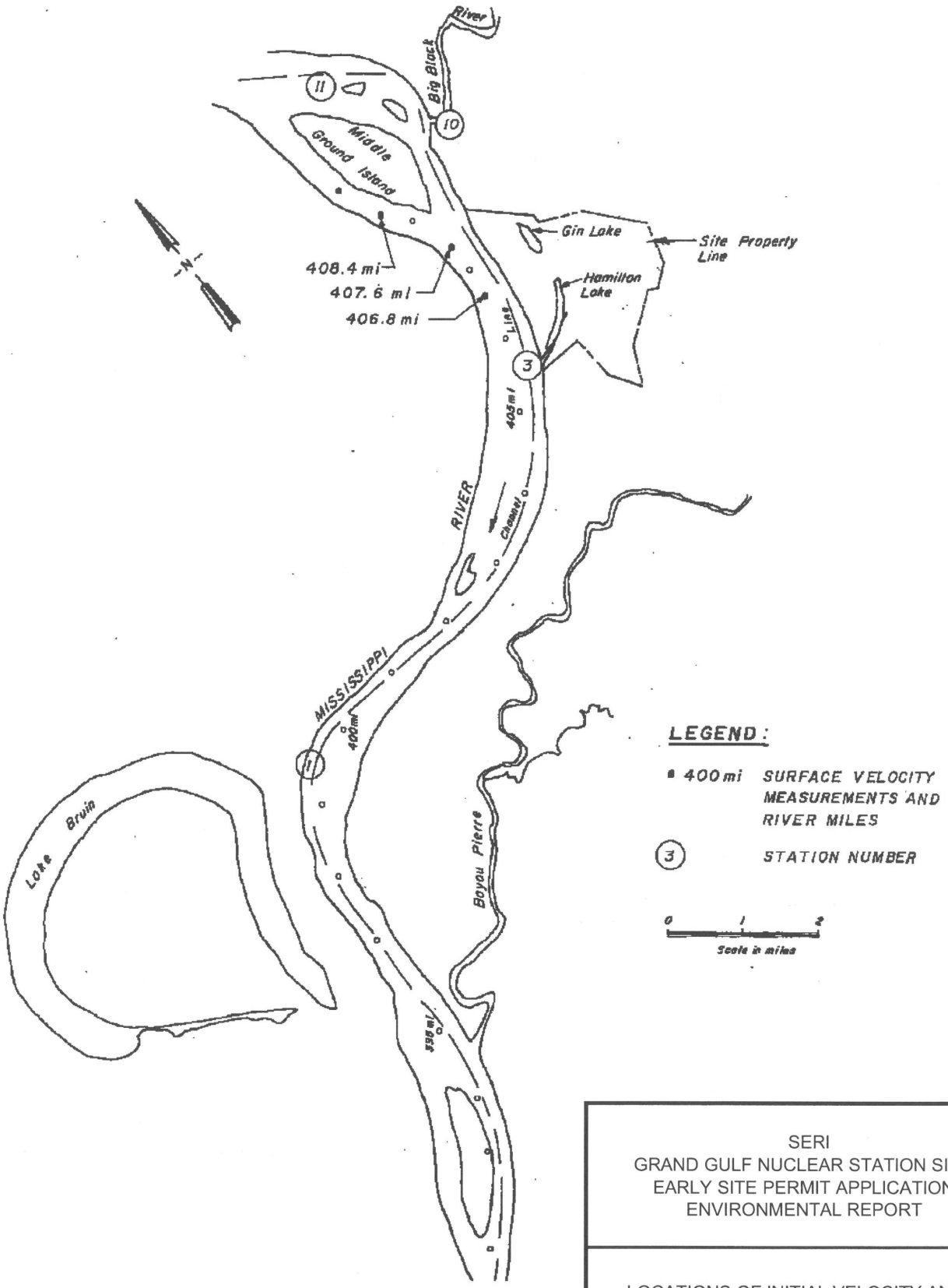
HYDROGRAPHS OF MISSISSIPPI RIVER, GIN LAKE, AND HAMILTON LAKE (UFSAR FIGURE 2.4-33)

FIGURE 2.3-9 REV. 1



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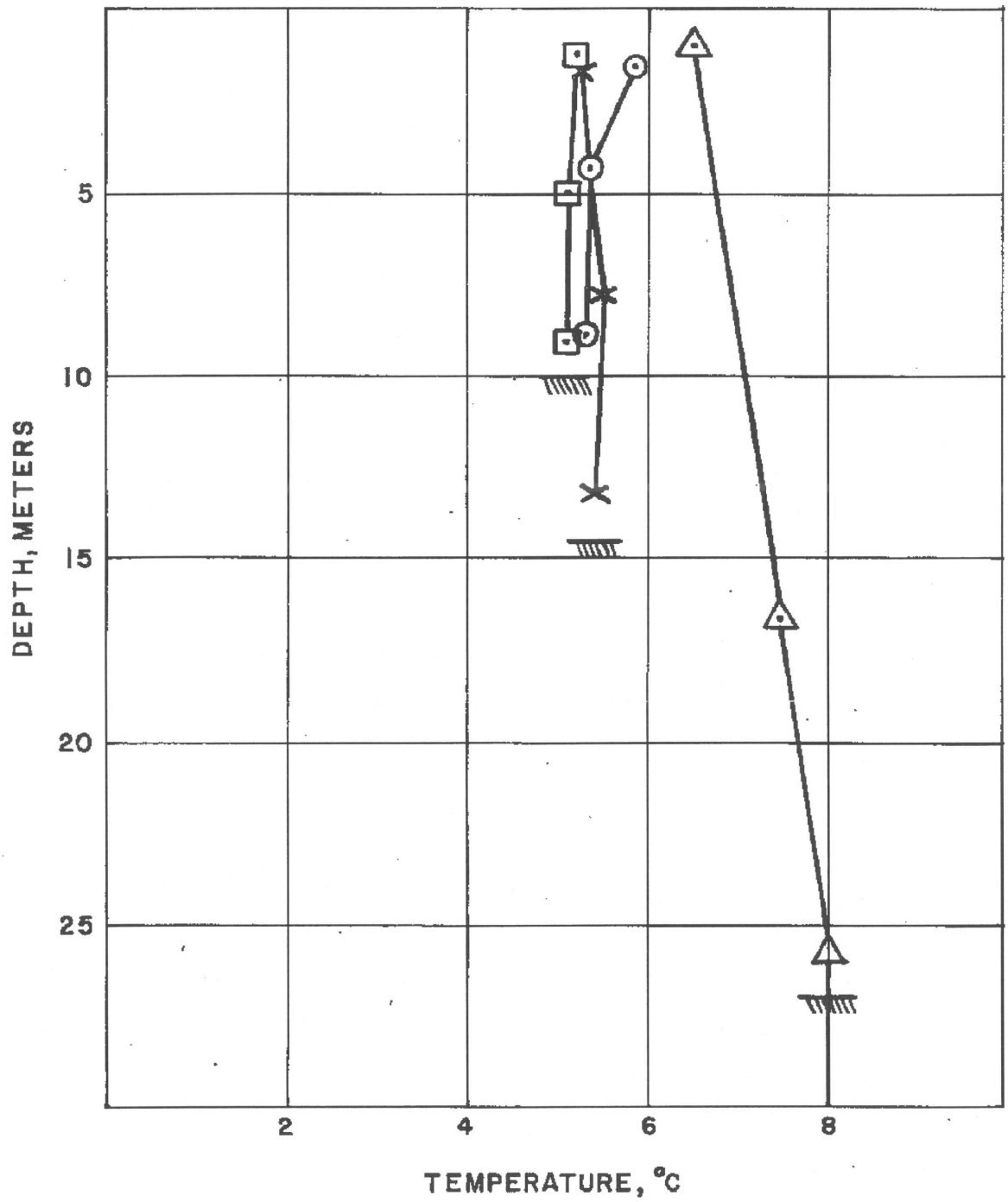
LOCATIONS OF INITIAL VELOCITY AND TEMPERATURE MEASUREMENTS (FER FIGURE 2.4-8)

FIGURE 2.3-10 REV. 1



LEGEND:

- STATION 1
- STATION 3
- STATION 10
- STATION 11
- APPROX. BOTTOM

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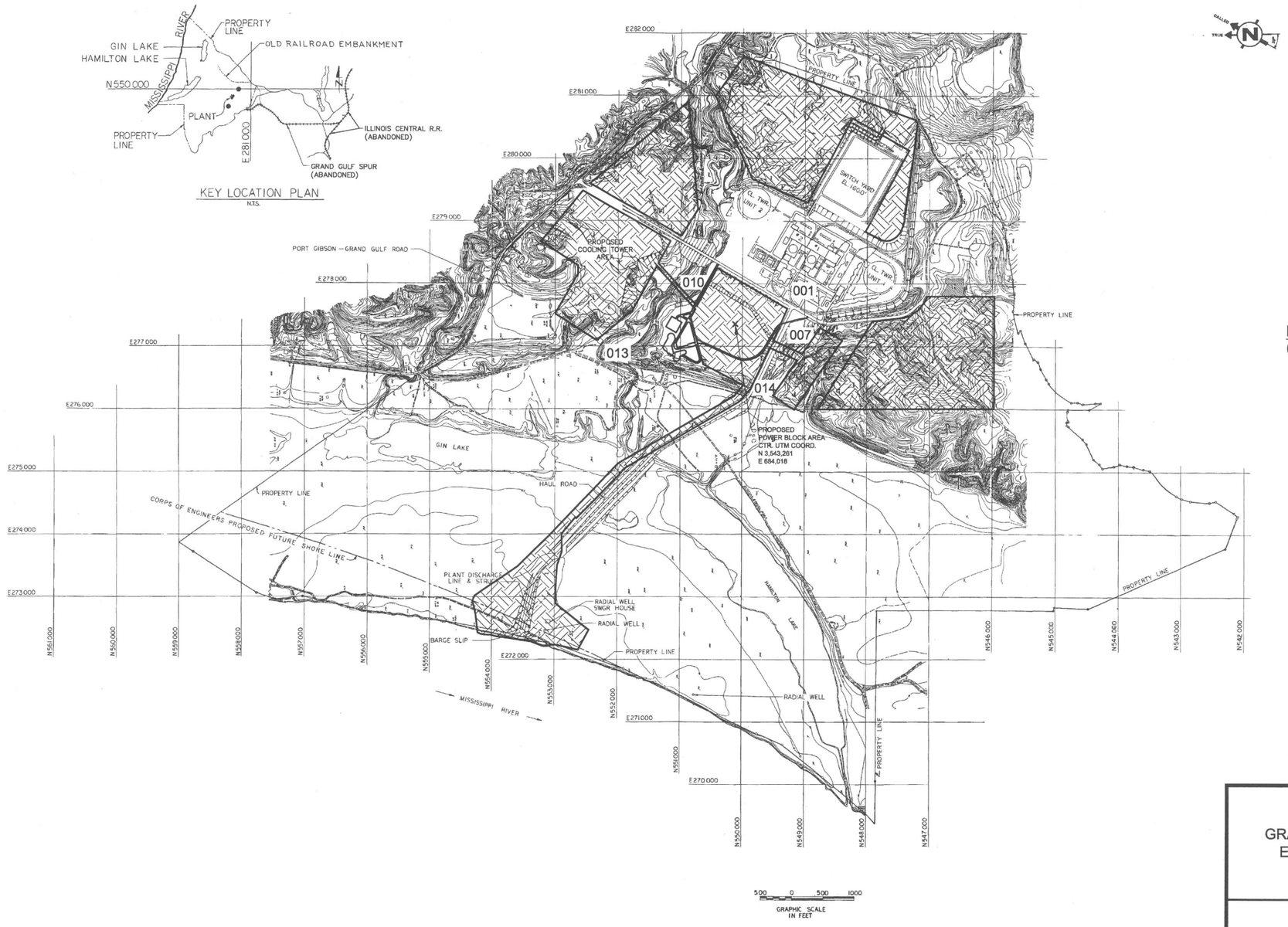
VERTICAL TEMPERATURE PROFILE
MISSISSIPPI RIVER
FEBRUARY 19, 1973
(FER FIGURE 2.4-7)

FIGURE 2.3-11 REV. 1



LEGEND:
007 - OUTFALL NO. 007 LOCATION

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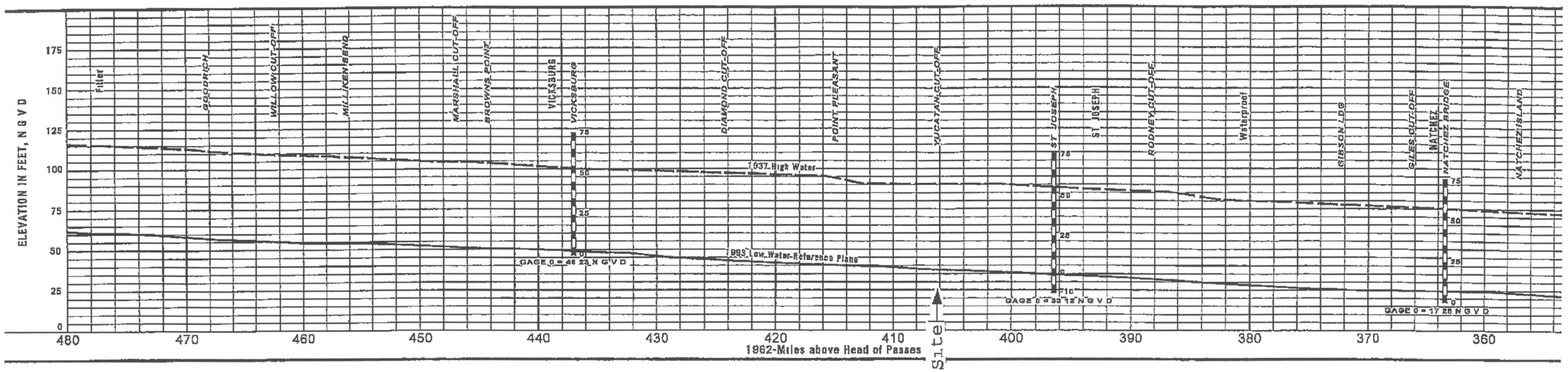
APPROXIMATE LOCATIONS OF
GGNS NPDES OUTFALL

FIGURE 2.3-12 REV. 1



LEGEND

430 1962 Mileage above Head of Passes

Low Water Reference Plane*

1937 High Water

Source: Adapted from USACE, 2001

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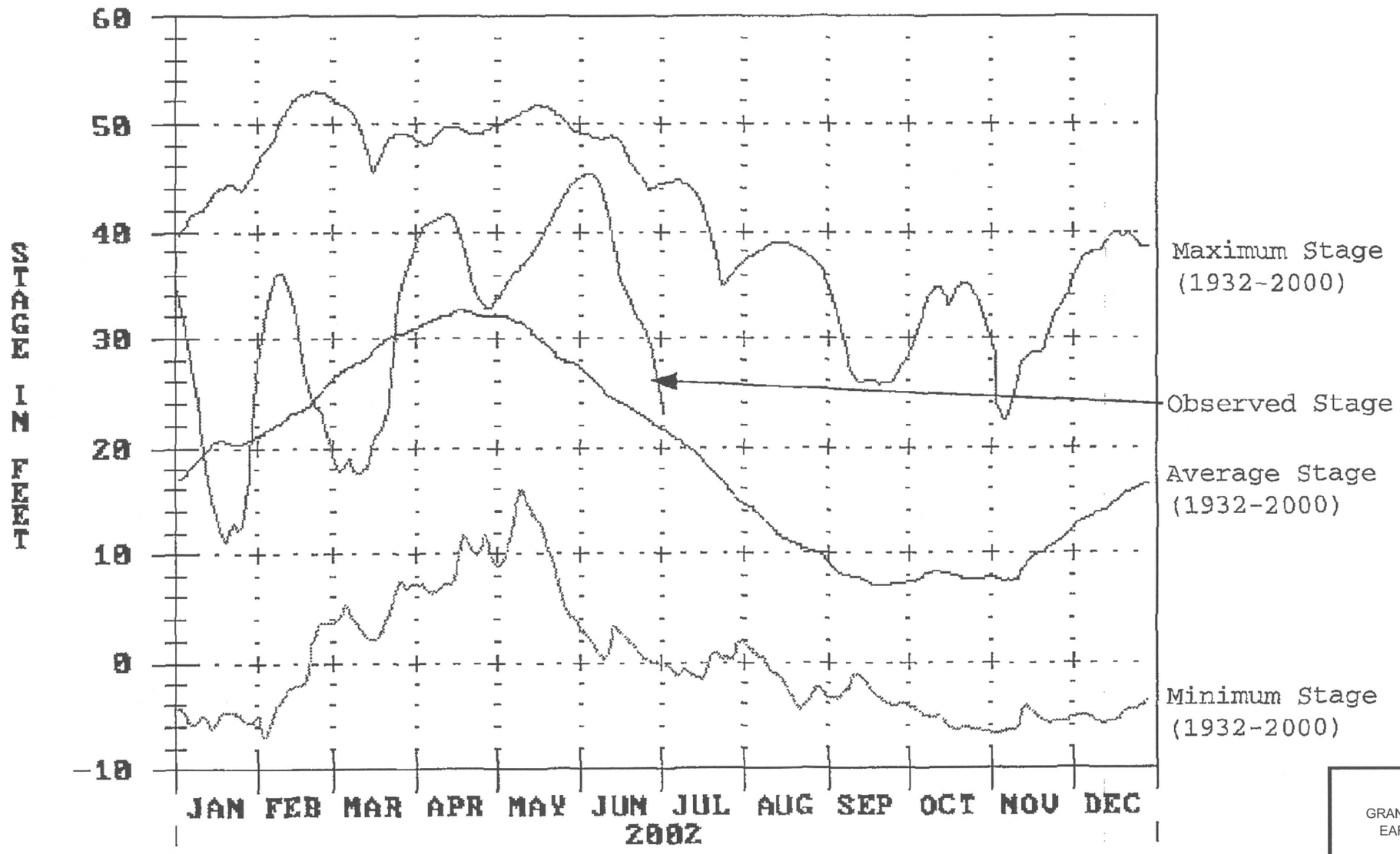
WATER SURFACE PROFILES FOR 1937 HIGH FLOW AND 1993 LOW WATER REFERENCE PLANE

FIGURE 2.3-13 REV. 1



Source: Adapted from U.S. Army Corps of Engineers

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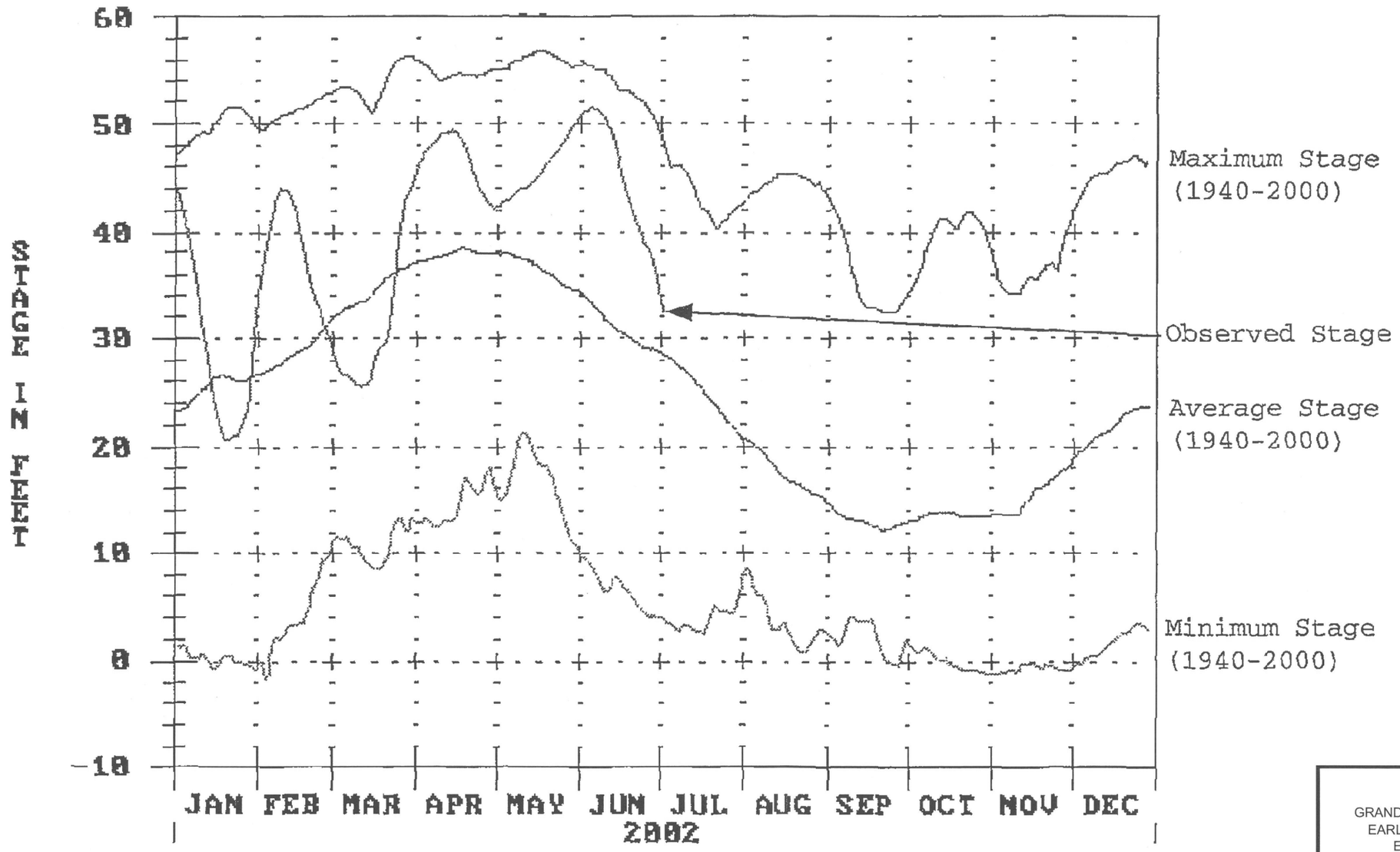
HYDROGRAPH FOR THE MISSISSIPPI
RIVER AT VICKSBURG, MS

FIGURE 2.3-14 REV. 1



Source: Adapted from U.S. Army Corps of Engineers

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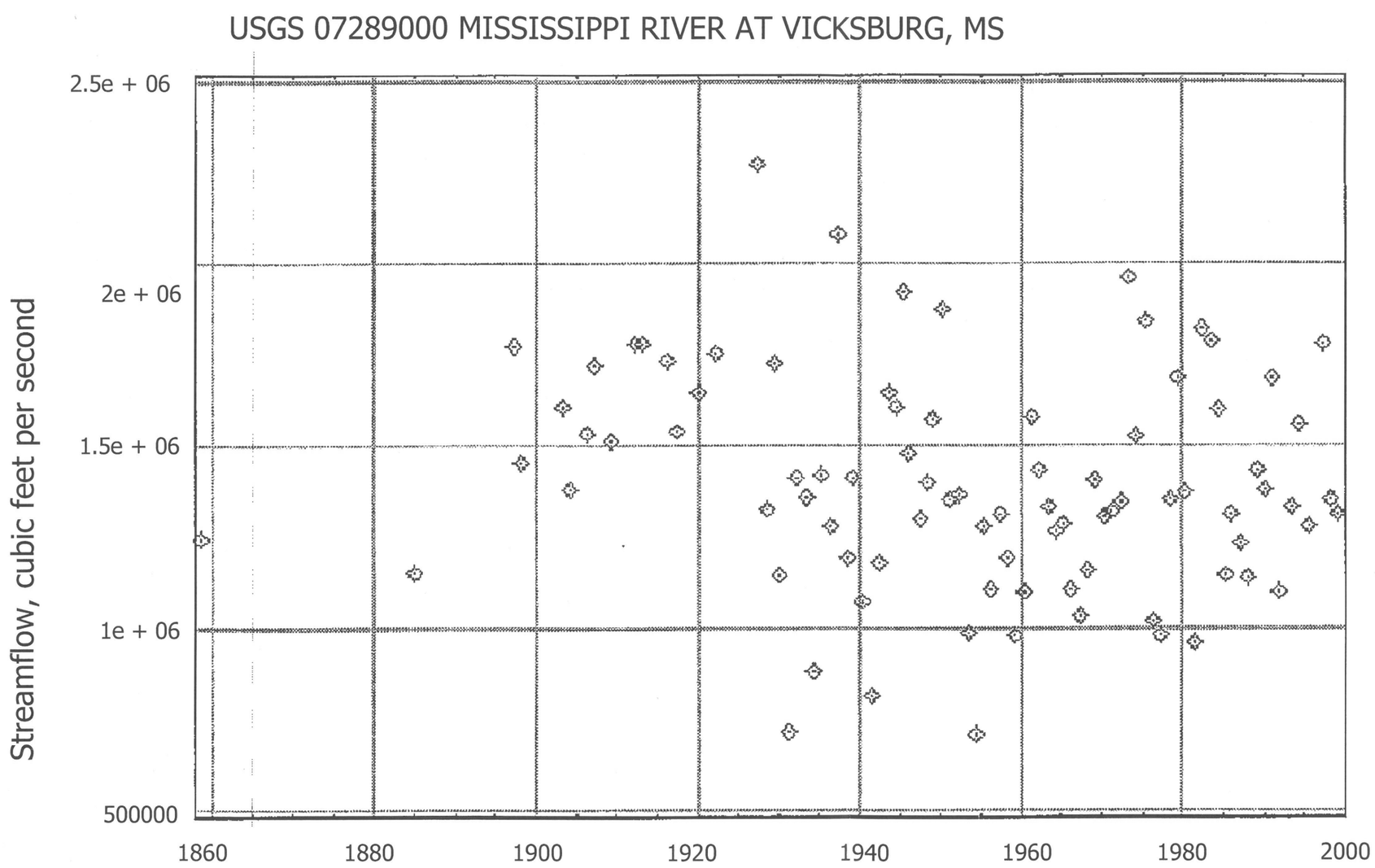
HYDROGRAPH FOR MISSISSIPPI RIVER
AT NATCHEZ, MS

FIGURE 2.3-15 REV. 1



DATES: 06/24/1858 to 02/13/1999

Source: U.S.G.S.

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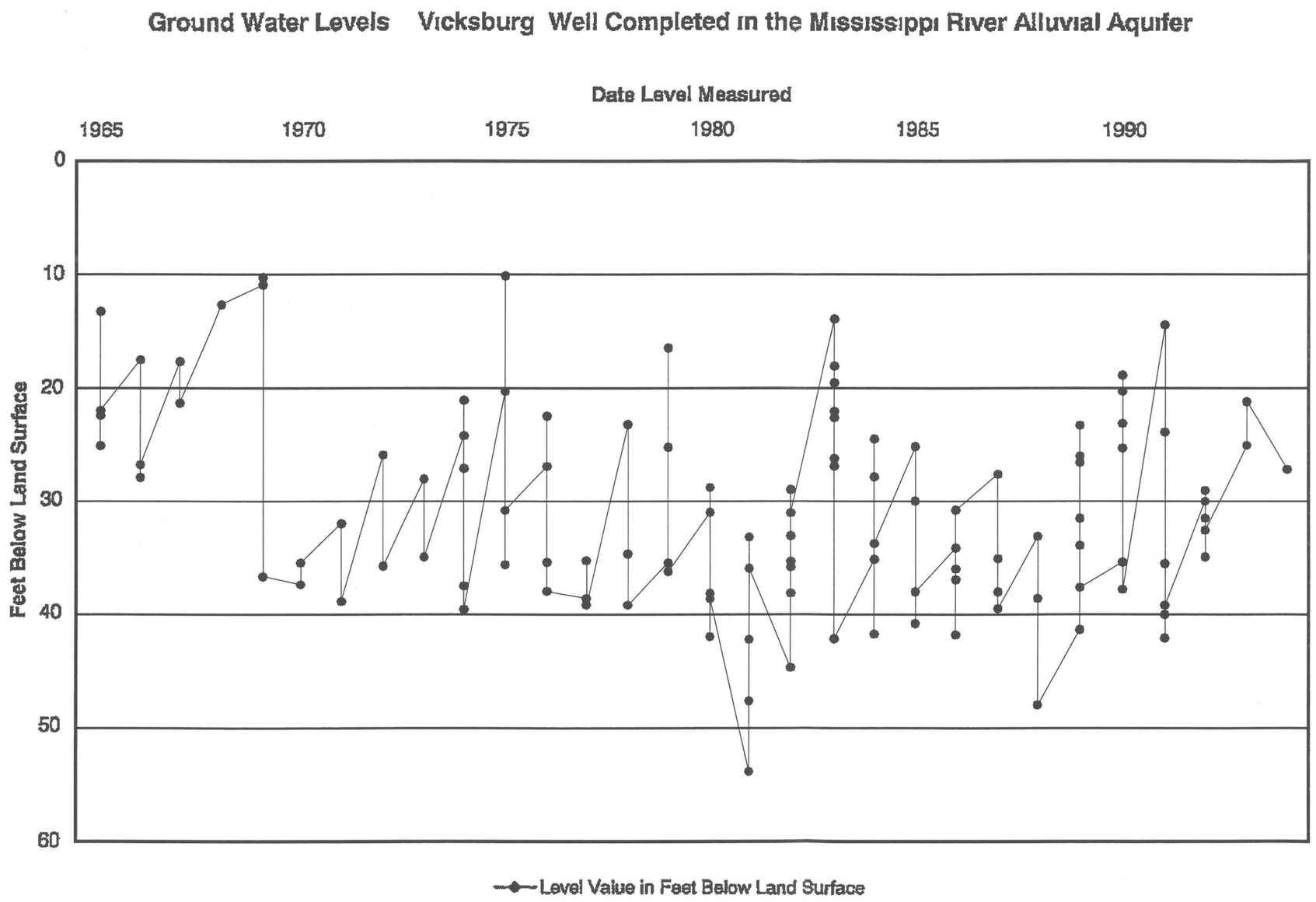
ANNUAL MAXIMUM INSTANTANEOUS PEAK
STREAMFLOW - MISSISSIPPI RIVER
USGS STATION, VICKSBURG, MS

FIGURE 2.3-16 REV. 1



SOURCE: USGS

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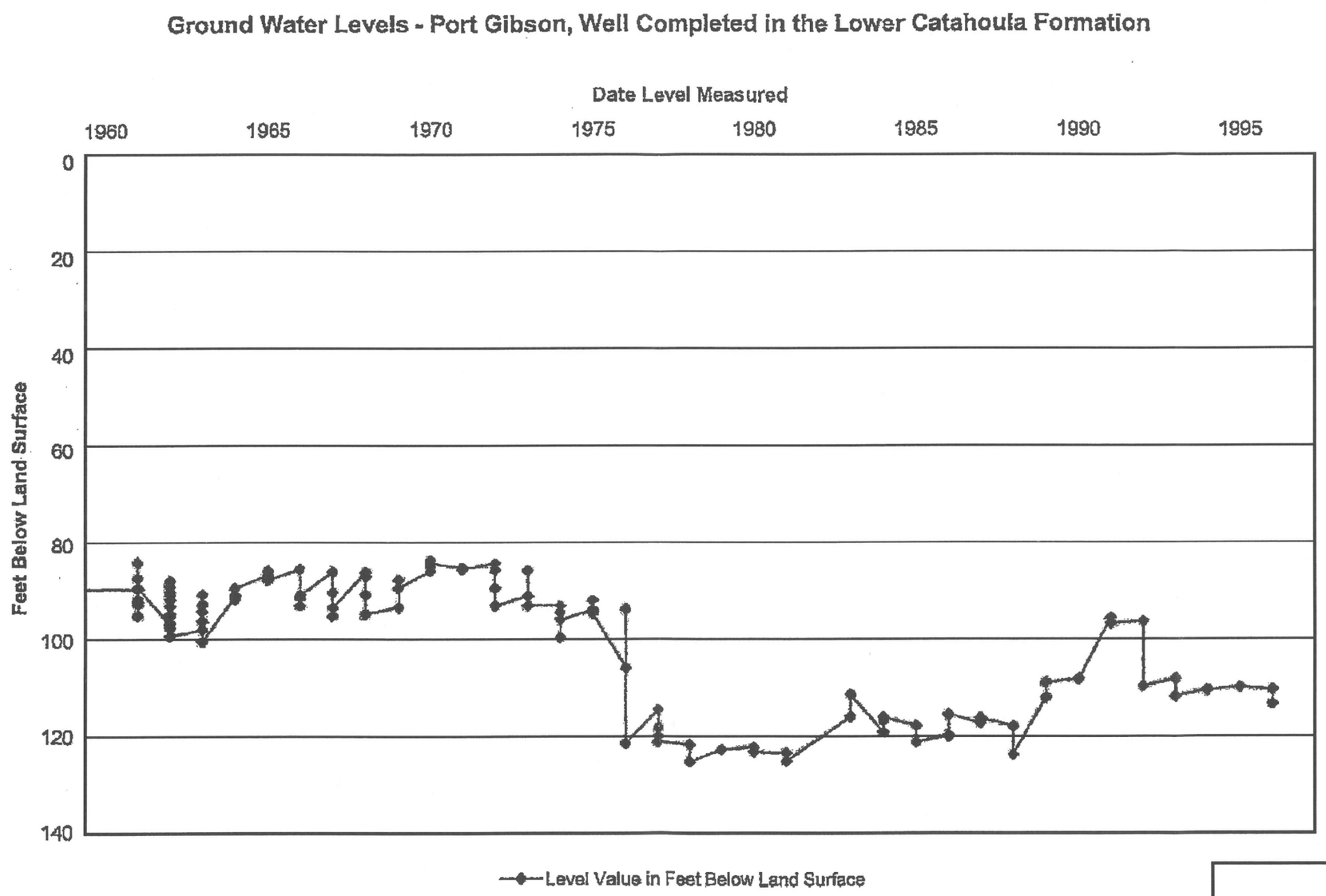
HYDROGRAPH OF A WELL COMPLETED IN THE MS RIVER ALLUVIAL AQUIFER, VICKSBURG, MS

FIGURE 2.3-17 REV. 1



SOURCE: USGS

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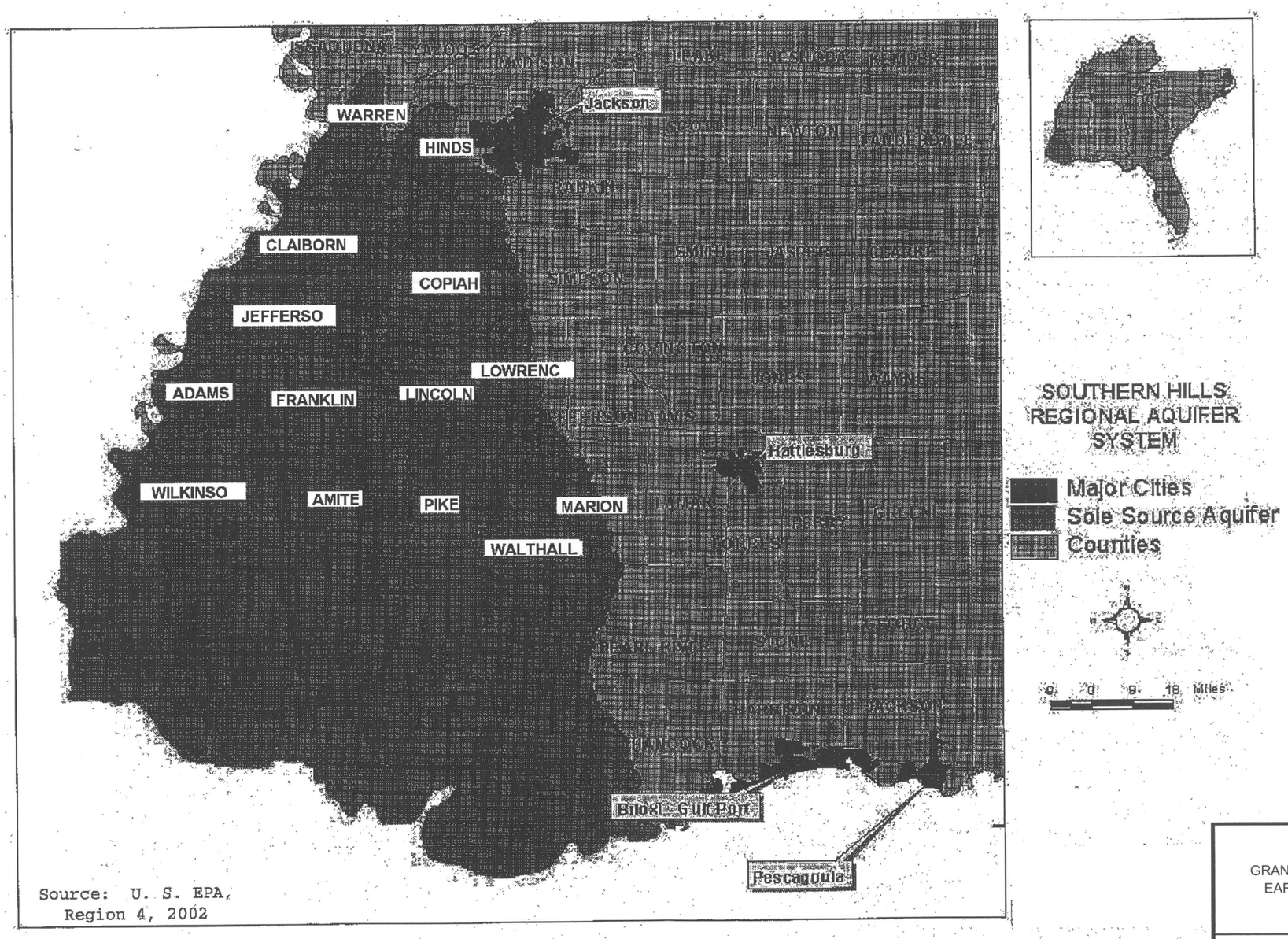
HYDROGRAPH OF A WELL COMPLETED IN THE LOWER CATAHOULA FORMATION, PORT GIBSON, MS

FIGURE 2.3-18 REV. 1



Source: U. S. EPA,
Region 4, 2002

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SOLE SOURCE AQUIFER MAP

FIGURE 2.3-19 REV. 1