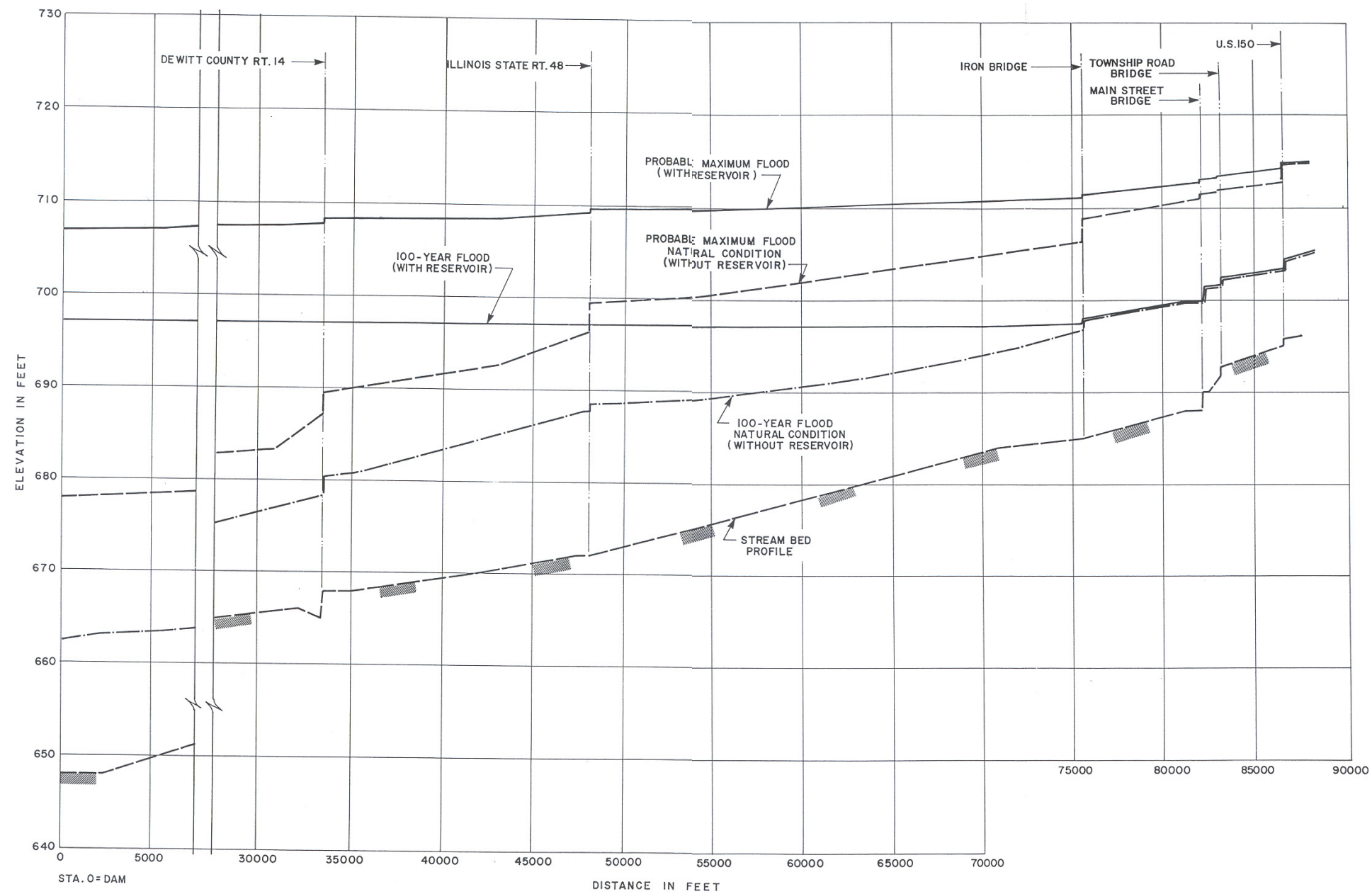


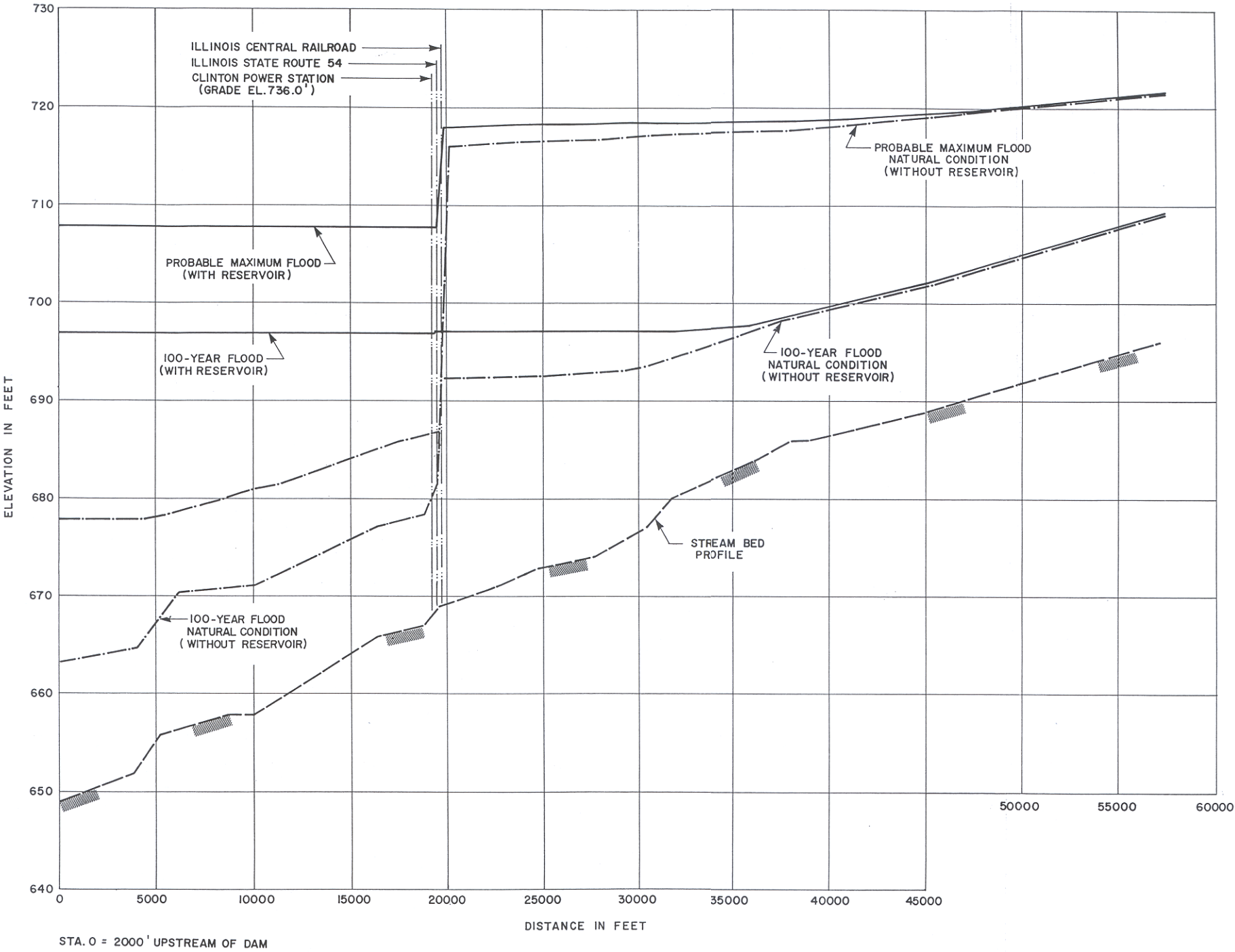
Figure 2.3-7
Water Surface Profiles
Salt Creek



Data Source:
CPS, 1982

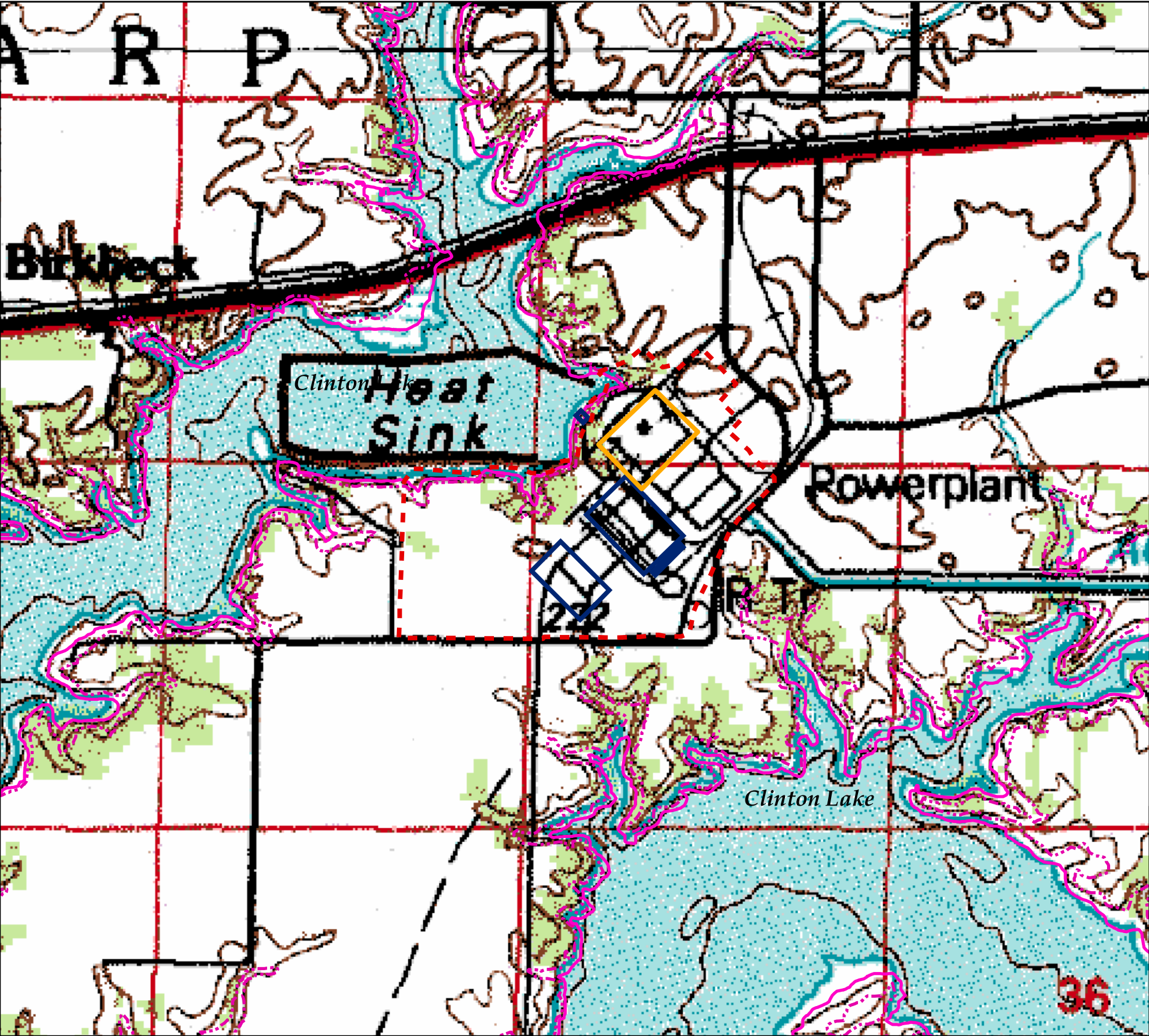
Not to Scale

Figure 2.3-8
Water Surface Profiles
of North Fork Salt Creek



Data Source:
CPS, 1982

Not to Scale



Environmental Report for the EGC Early Site Permit

Figure 2.3-9
Flood Prone Area

Legend

- CPS Facility
- Proposed Areas for EGC ESP Facility Structures
- Site Boundary: Fenceline
- 100-year Flood Zone Boundary
- Probable Maximum Flood Zone Boundary (708.9 ft)

Note: The Probable Maximum Flood Zone Boundary and the 100-year Flood Zone Boundary were derived from USGS National Digital Elevation Model Data. The Probable Maximum Flood Elevation is 708.9 ft (216 m). The 100-year flood is 697 ft (212 m). Variations in mapping accuracy between the map base and the flood boundaries derived from the USGS Digital Elevation Model are apparent in locations on the map.

Data Sources:
USGS, 1984 and 1989
USGS, 1999
ISWS, 1996
CPS, 2002

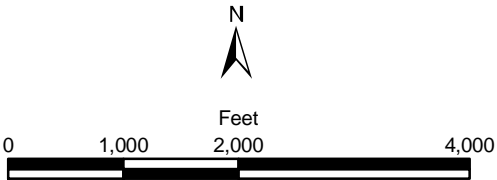
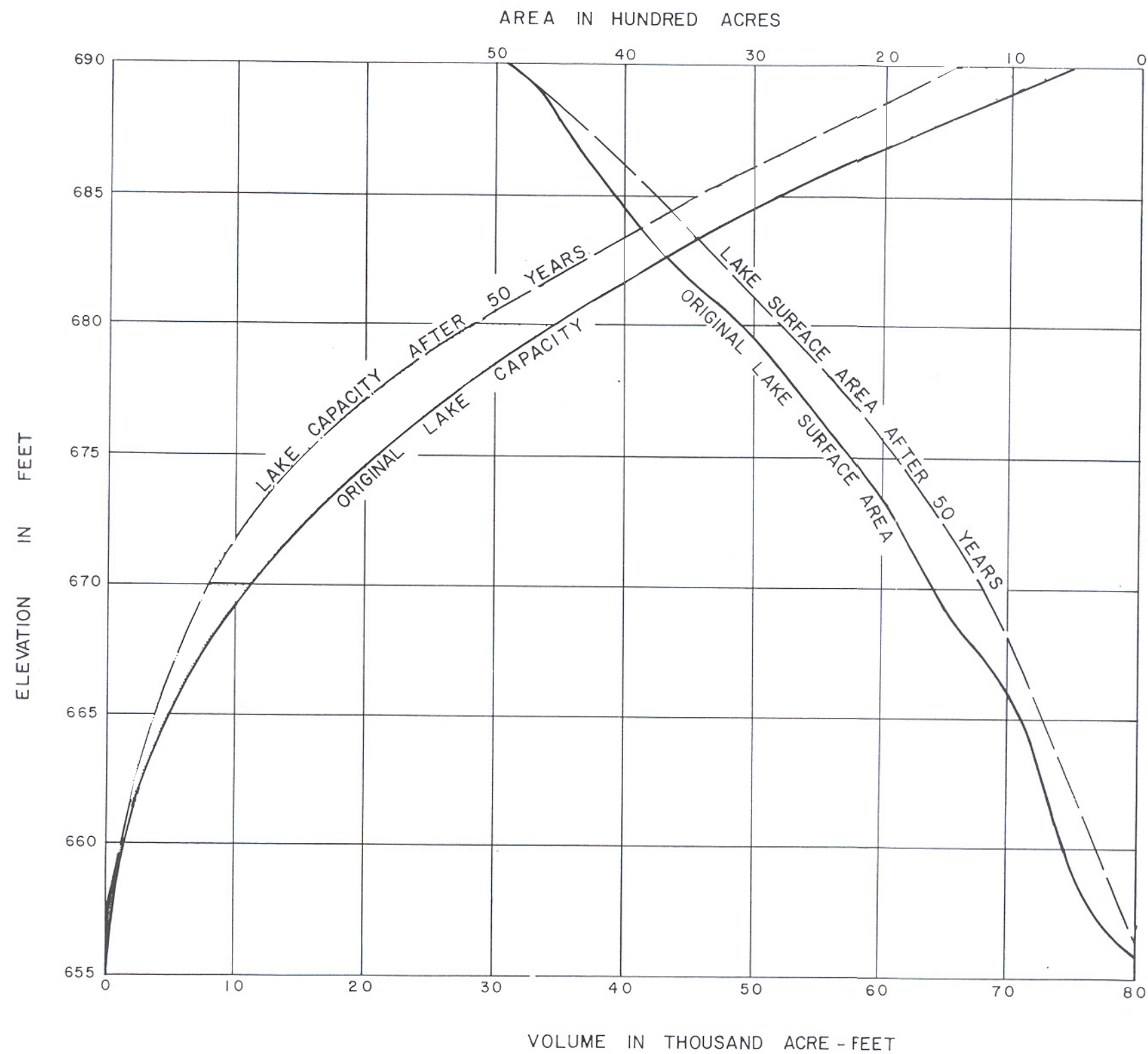


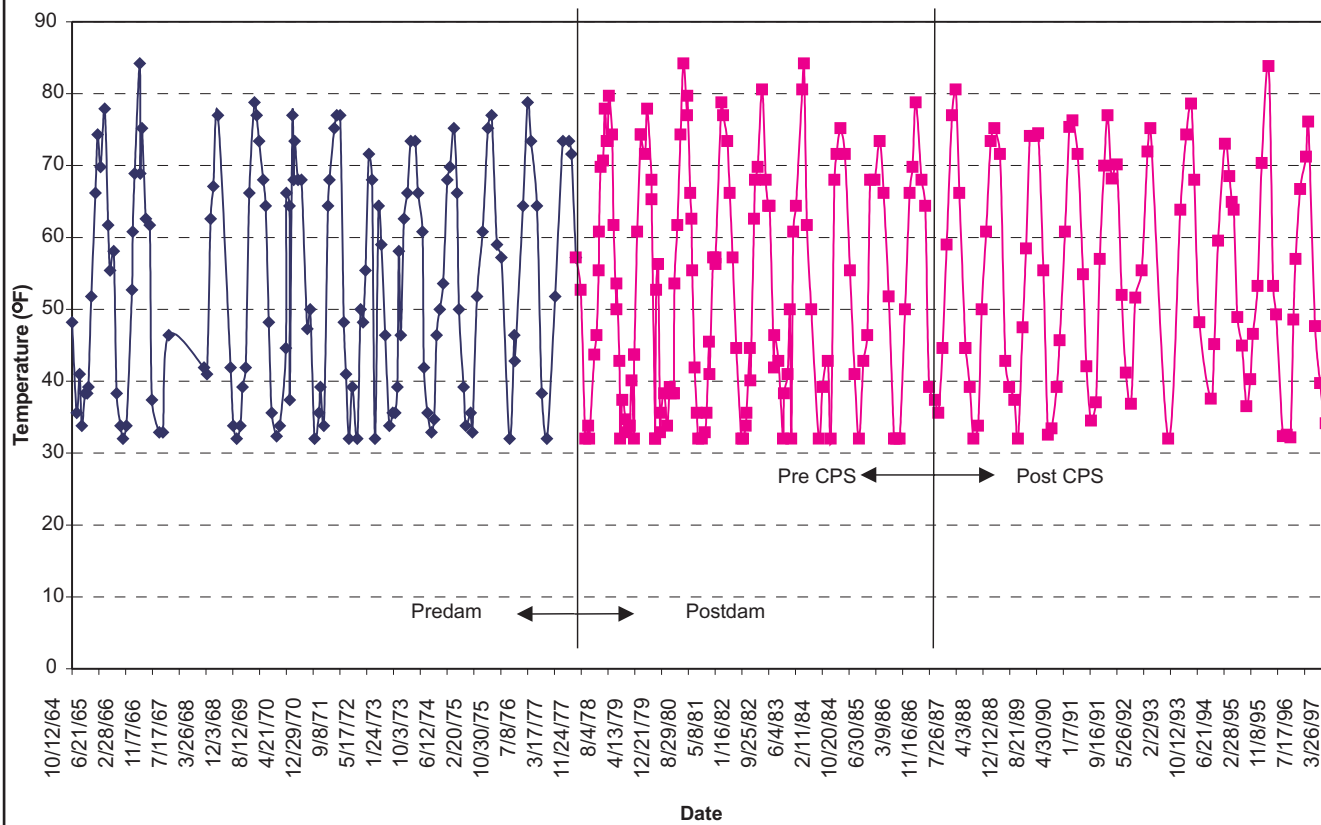
Figure 2.3-10
Lake Area Capacity Curves
Before and After 50 Years
of Sedimentation



Data Source:
CPS, 1982

Not to Scale

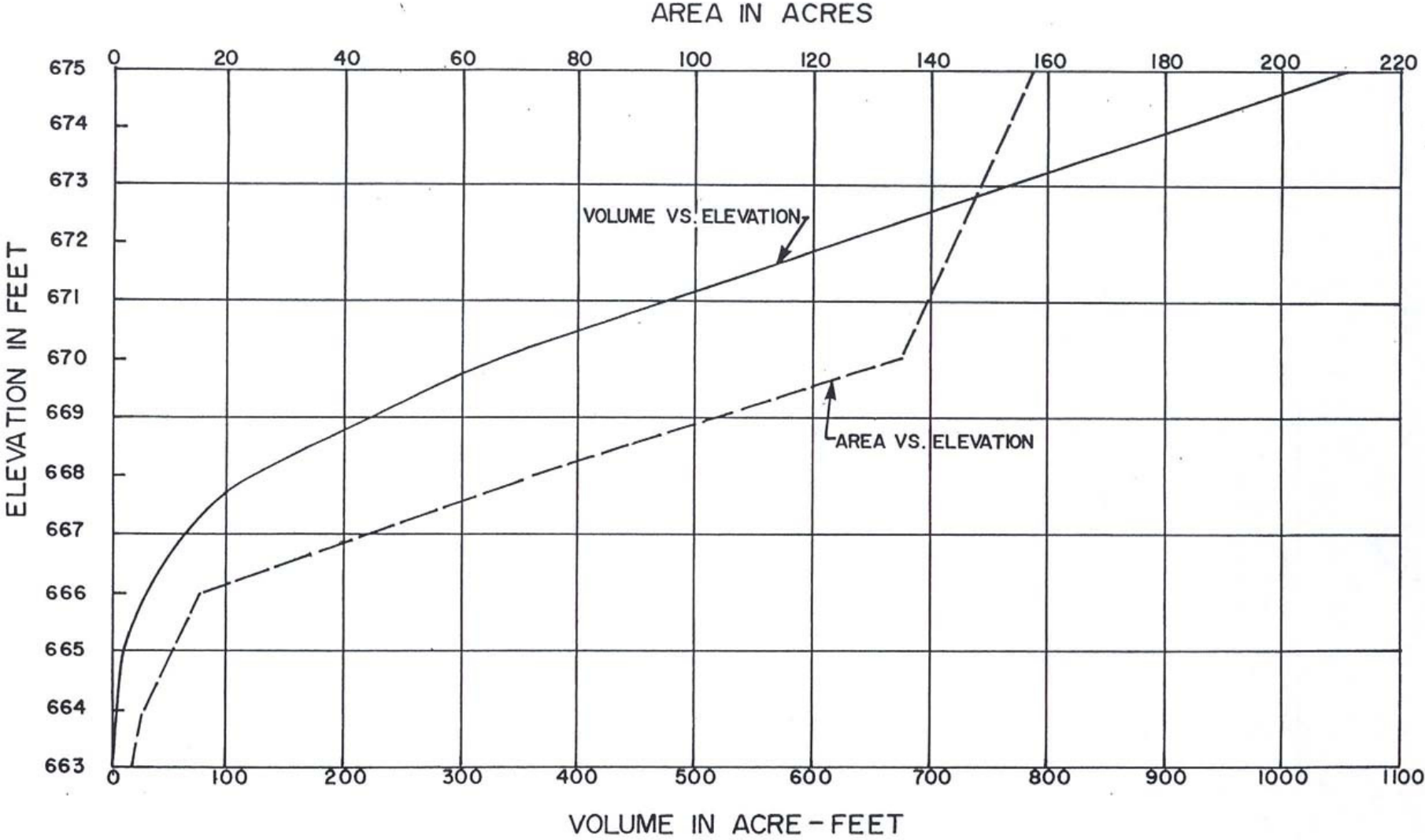
Figure 2.3-11
Salt Creek Temperature at
Rowell Gauge Station
(October 12, 1964 - April 1, 1997)



Data Source:
 USGS, 2002

Not to Scale

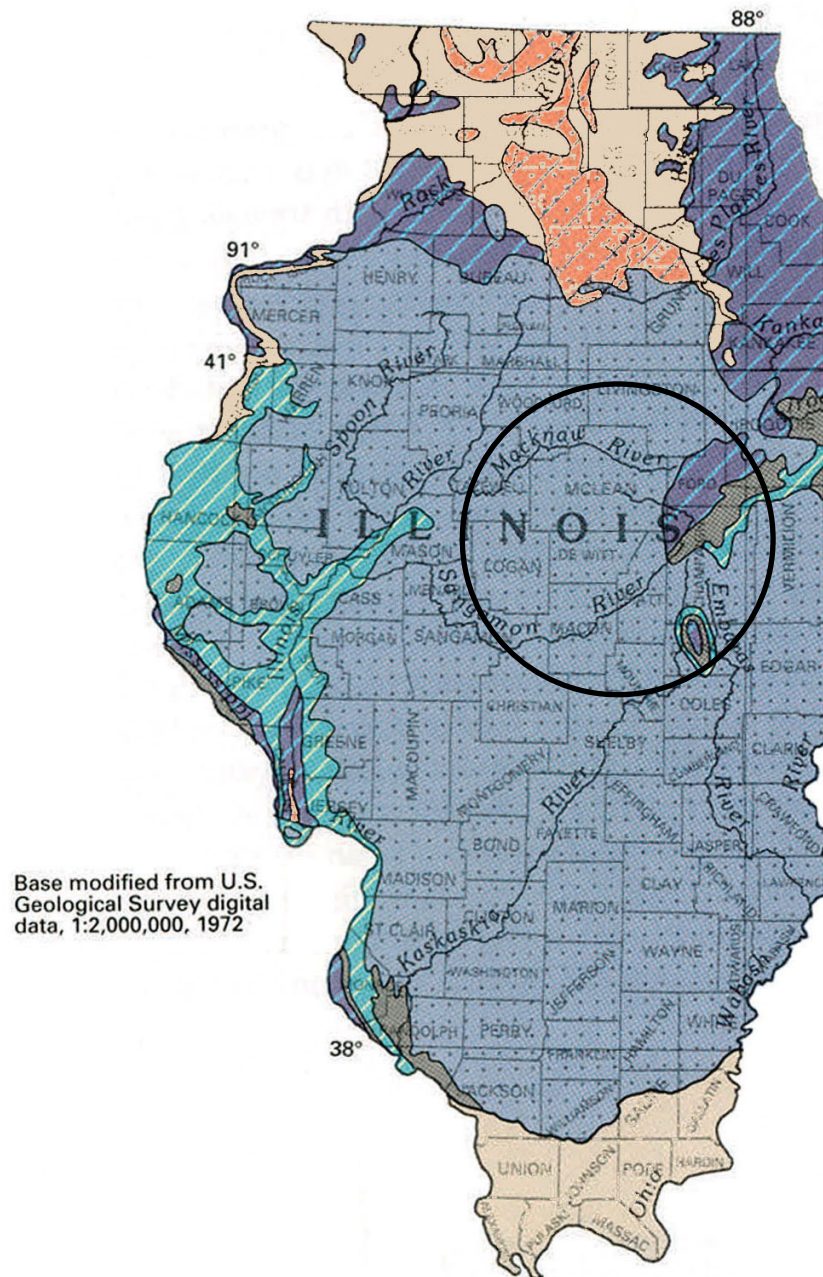
Figure 2.3-12
Area-Capacity of
Submerged Ultimate Heat Sink









Data Source:
CPS, 1982

Not to Scale

Figure 2.3-13
Aquifers in Consolidated Rocks from Pennsylvanian to Silurian-Devonian 730-K



Legend

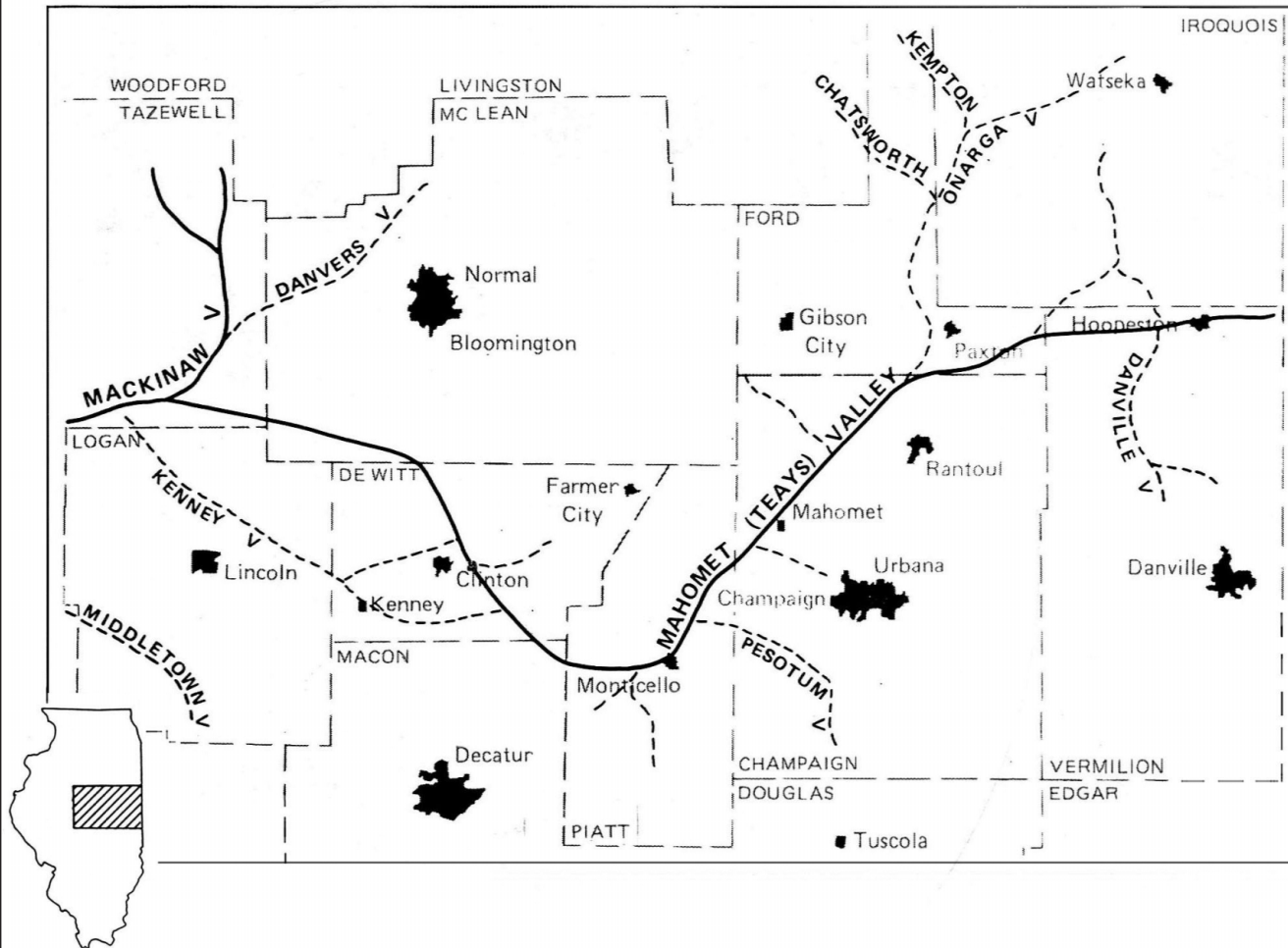
-  Pennsylvania aquifers - Sandstone and some limestone in rocks of Pennsylvanian age
-  Mississippian aquifers - Limestone and sandstone in rocks of Mississippian age
-  Silurian-Devonian aquifer - Dolomite and limestone in rocks of Devonian and Silurian ages
-  Not a principal aquifer
-  Cambrian-Ordovician aquifers - Sandstone and dolomite in rocks of Ordovician and Cambrian ages
-  Approximate study area (50-mi radius)

Data Source:
USGS 1995



N
Not to Scale

Figure 2.3-14
Axes of Major Bedrock
in Central Illinois



Legend

— Approximate Axis of the Bedrock Valley

Data Source:
Kempton, 1991

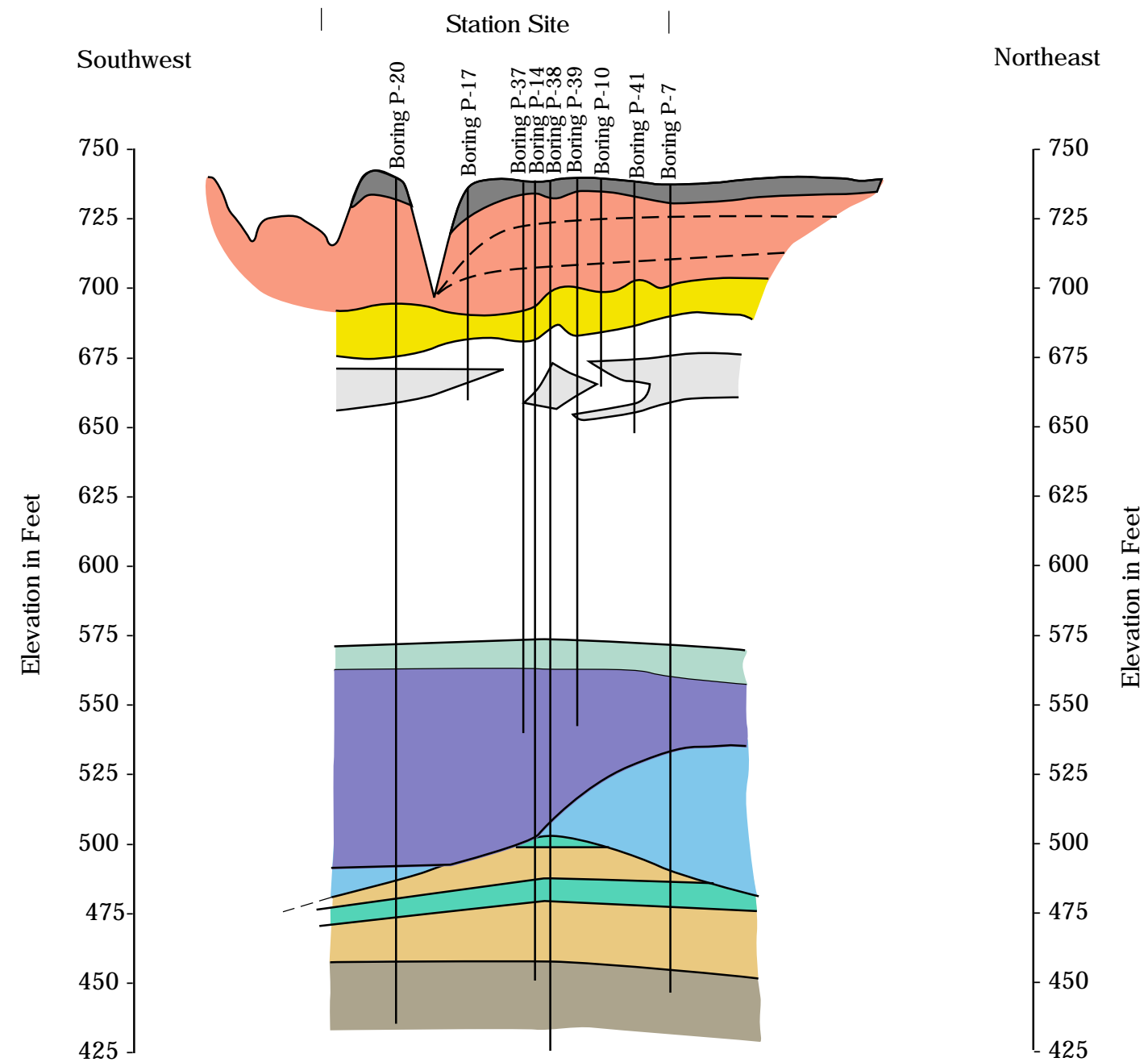


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Not to Scale

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Figure 2.3-15

**Near Site Cross Section of
Hydrogeologic Units
and Piezometric Surfaces**



- NOTES:
1. Groundwater Levels indicated on the subsurface section were obtained by interpolating between borings with piezometers. Information on actual groundwater levels exist only at boring locations with piezometers. It is possible that groundwater levels between borings with piezometers may vary from those indicated.
 2. The depth and thickness of soil and rock strata indicated on the subsurface section were obtained by interpolating between borings. Information on actual soil and rock conditions exist only at boring locations. It is possible that soil and rock conditions may vary from those indicated.
 3. The discussion in the text is necessary for proper understanding of the nature of the subsurface materials
 4. Elevations refer to the USGS Datum

Legend

Quaternary	Wisconsinan	LOESS - Brown to mottled brown and gray clayey silt or silty clay with trace fine sand; Weathered
		WISCONSINAN GLACIAL TILL - Brownish-gray to gray clayey silt or silty clay with sand and gravel; Contains irregular and discontinuous lenses of sand and silt throughout (glacial outwash and possibly local lacustrine deposits)
	Sangamonian	INTERGLACIAL ZONE - Includes dark gray to gray organic clayey silt or silty clay (colluvial soils), greenish to bluish-gray clayey silt with sand and gravel (reworked Illinoian Glacial Till)
	Illinoian	ILLINOIAN GLACIAL TILL - Brownish-gray to gray clayey silt with sand and gravel to very sandy silt or silty sand with some clay and gravel Interbedded outwash deposits in upper horizons
Kansan	Yar-Mouthian	LACUSTRINE DEPOSIT - Brownish-gray to black and gray clayey silt to silt, organic in zones; Includes greenish to bluish-gray clayey silt with sand and gravel (reworked and weathered pre-Illinoian Glacial Till); Assignment to Yarmouthian Glacial Stage is tentative
		PRE-ILLINOIAN GLACIAL TILL - Grayish-brown to brown silty clay and clayey silt with some sand and gravel; Brown color and relatively high clay content is characteristic; Tentatively assigned to Kansan Glacial Stage on the basis of clay analysis by Illinois State Geological Survey
		PRE-ILLINOIAN ALLUVIAL & LACUSTRINE DEPOSIT - Consists of grayish-brown, brown, and green clayey silt and silty clay with sand and some gravel (reworked glacial till) and gray to brown clayey silt with organic debris (lacustrine or low energy alluvial deposit); Included as part of the Mahomet bedrock deposit in areas where it is underlain by sandy outwash deposits
Pennsylvanian		BEDROCK - Interbedded layers of limestone, shale, and siltstone assigned to the McLeansboro Group, Modesto Formation on the basis of spore analysis of the coal encountered in boring B-31
		LIMESTONE - Greenish-gray, gray and brown, fine to coarsely crystalline, silty, thin bedded to massive, numerous shale partings in zones, fossiliferous.
		SHALE - Gray to dark gray shale, carcoraceous to calcareous; clayey in zones, expansive, slickensides; occasional concretion
		SILTSTONE - Light gray siltstone, micaceous, fine sandy, cross-bedded in zones; occasional interbedded layer of silty sandstone

Data Source:
CPS, 2002

Not to Scale