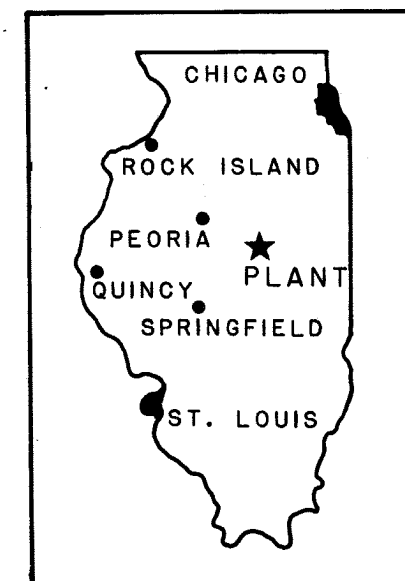
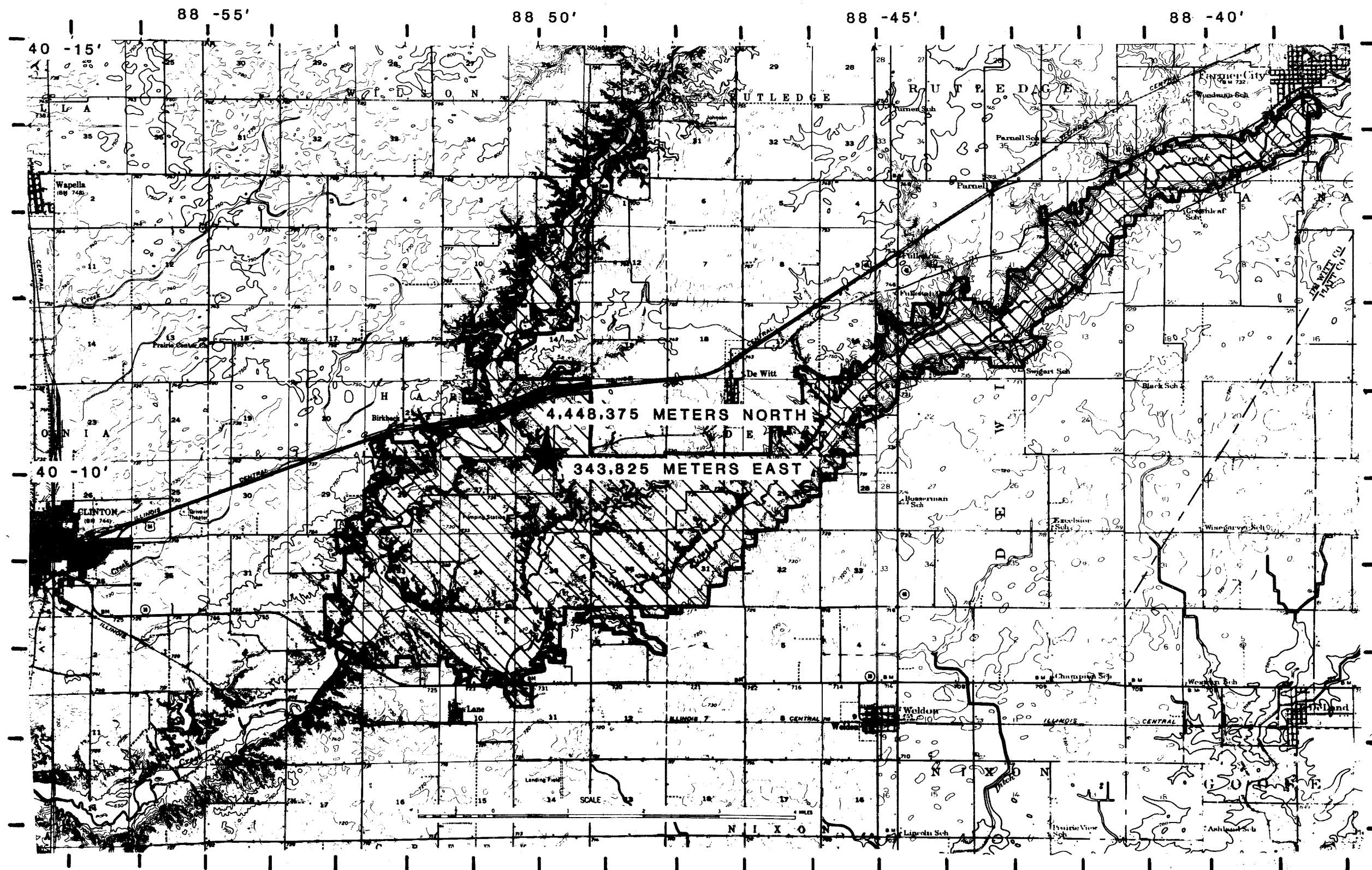




LEGEND

★ PLANT

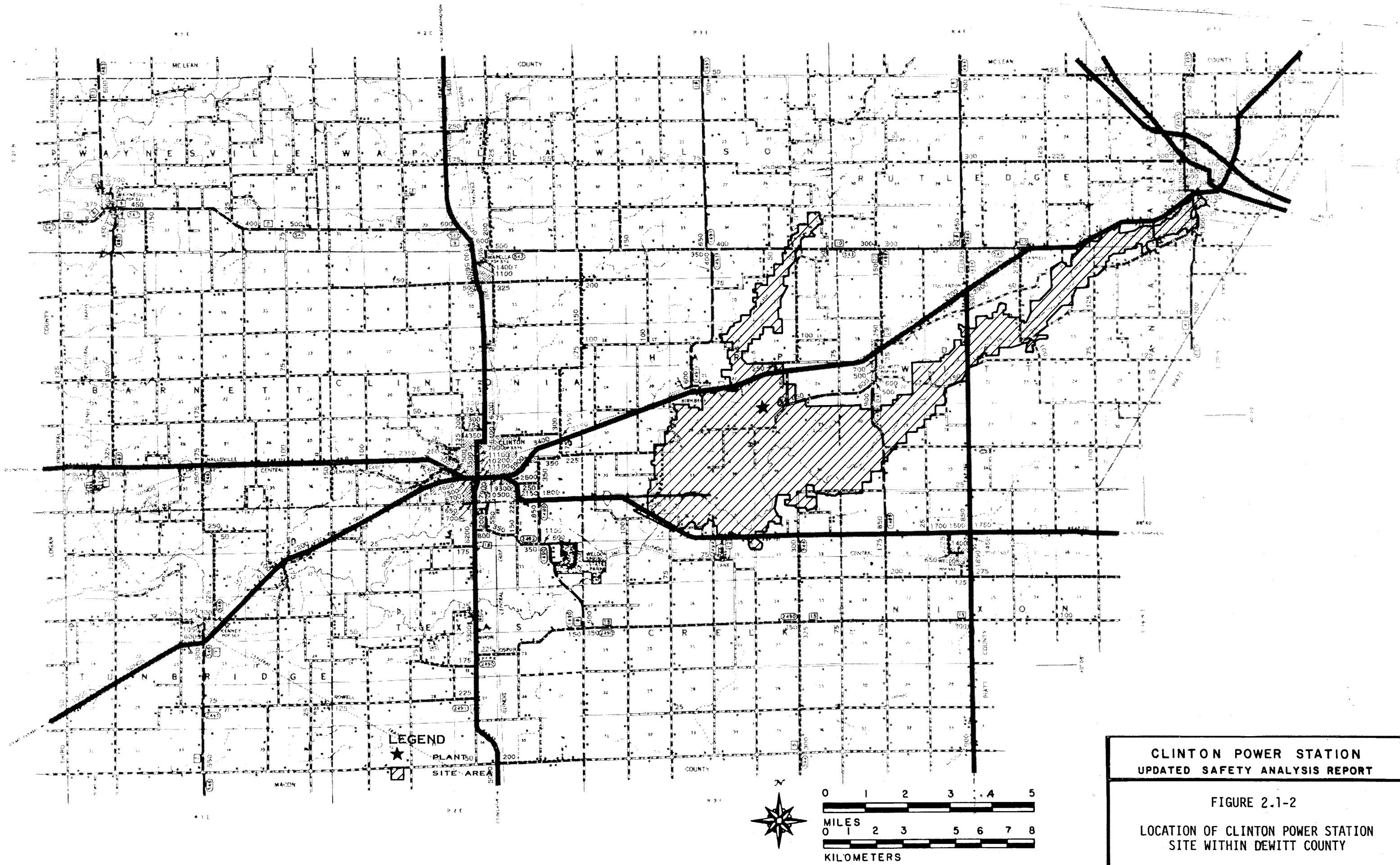
▨ SITE AREA



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-1

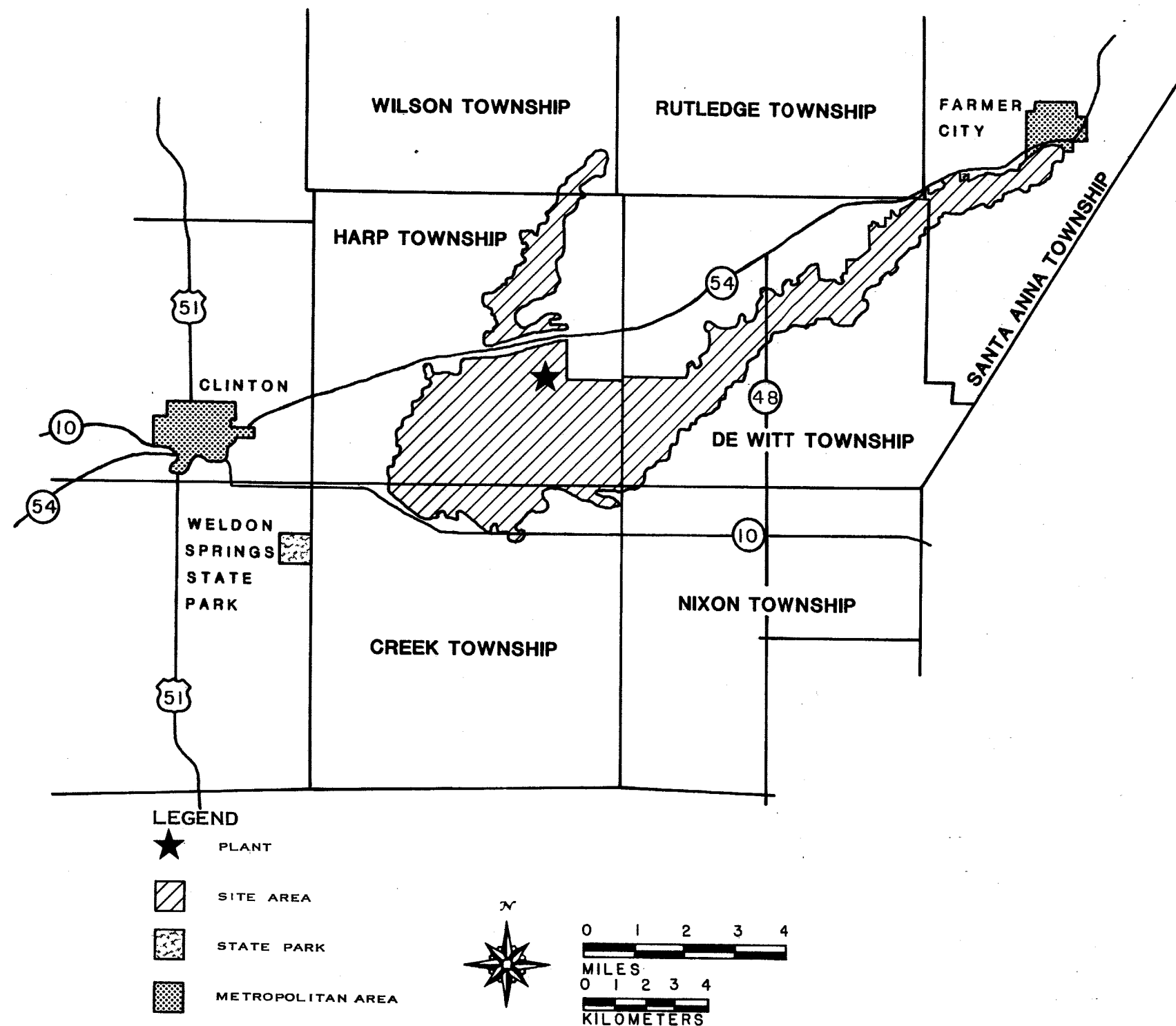
PLANT AND SITE LOCATION



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-2

LOCATION OF CLINTON POWER STATION
SITE WITHIN DEWITT COUNTY



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-3

LOCATION OF CLINTON POWER STATION
SITE WITHIN POLITICAL TOWNSHIPS

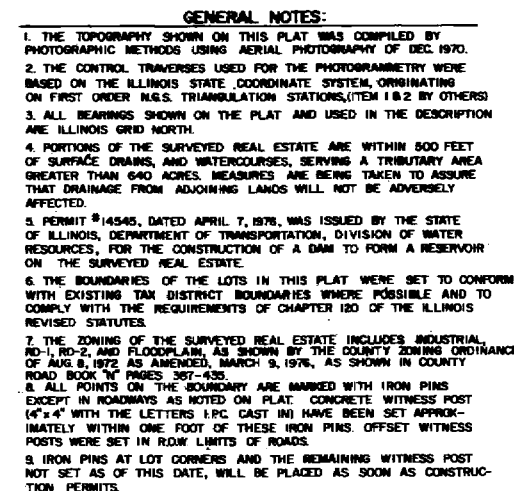
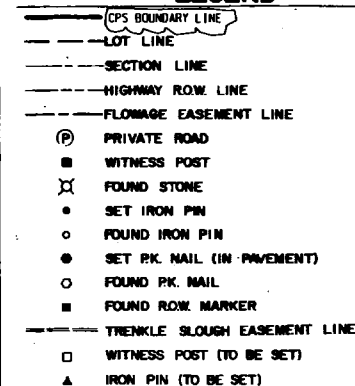
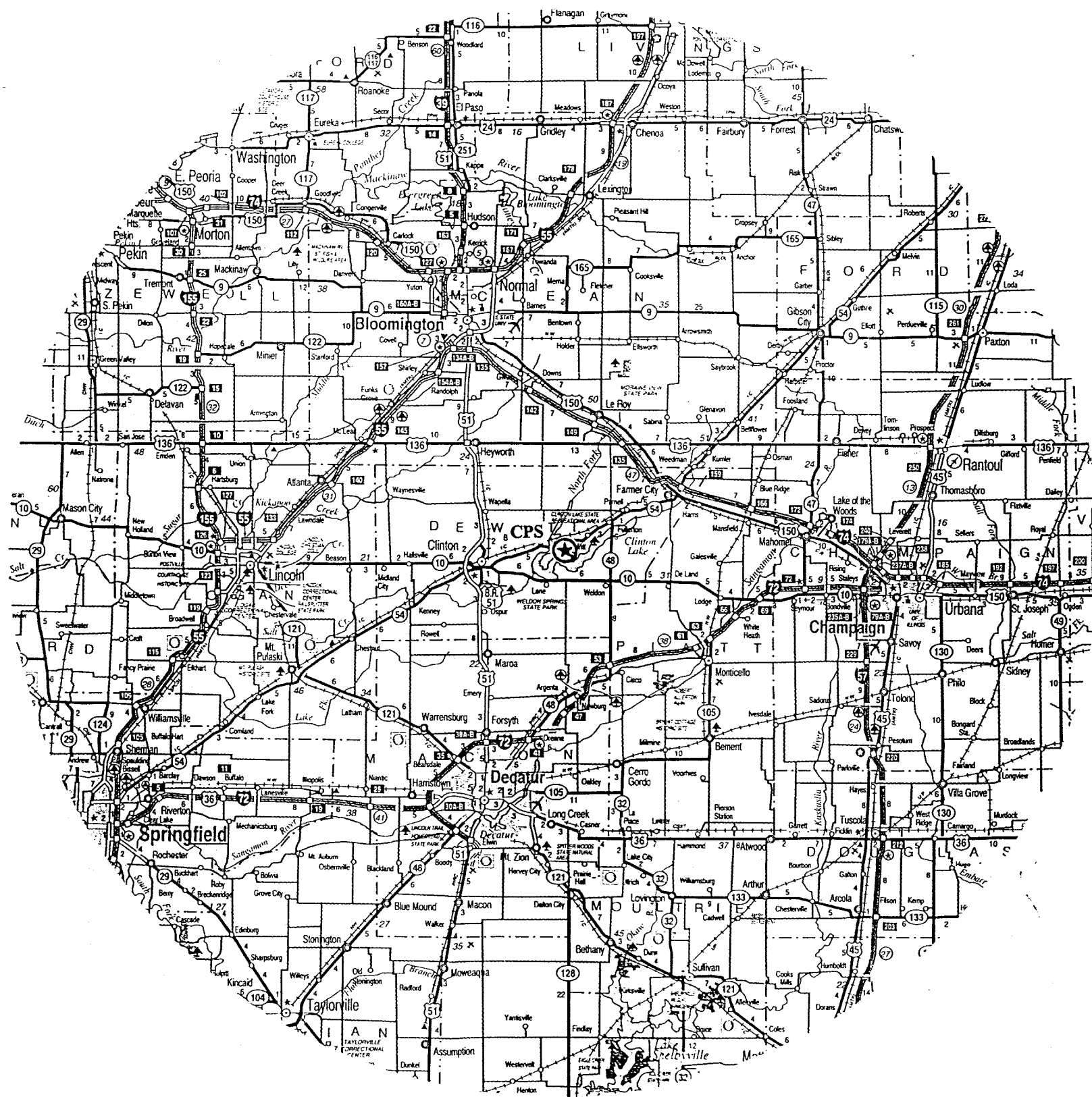


FIGURE 2.1-4
CLINTON POWER STATION -
SITE INDEX PLAT



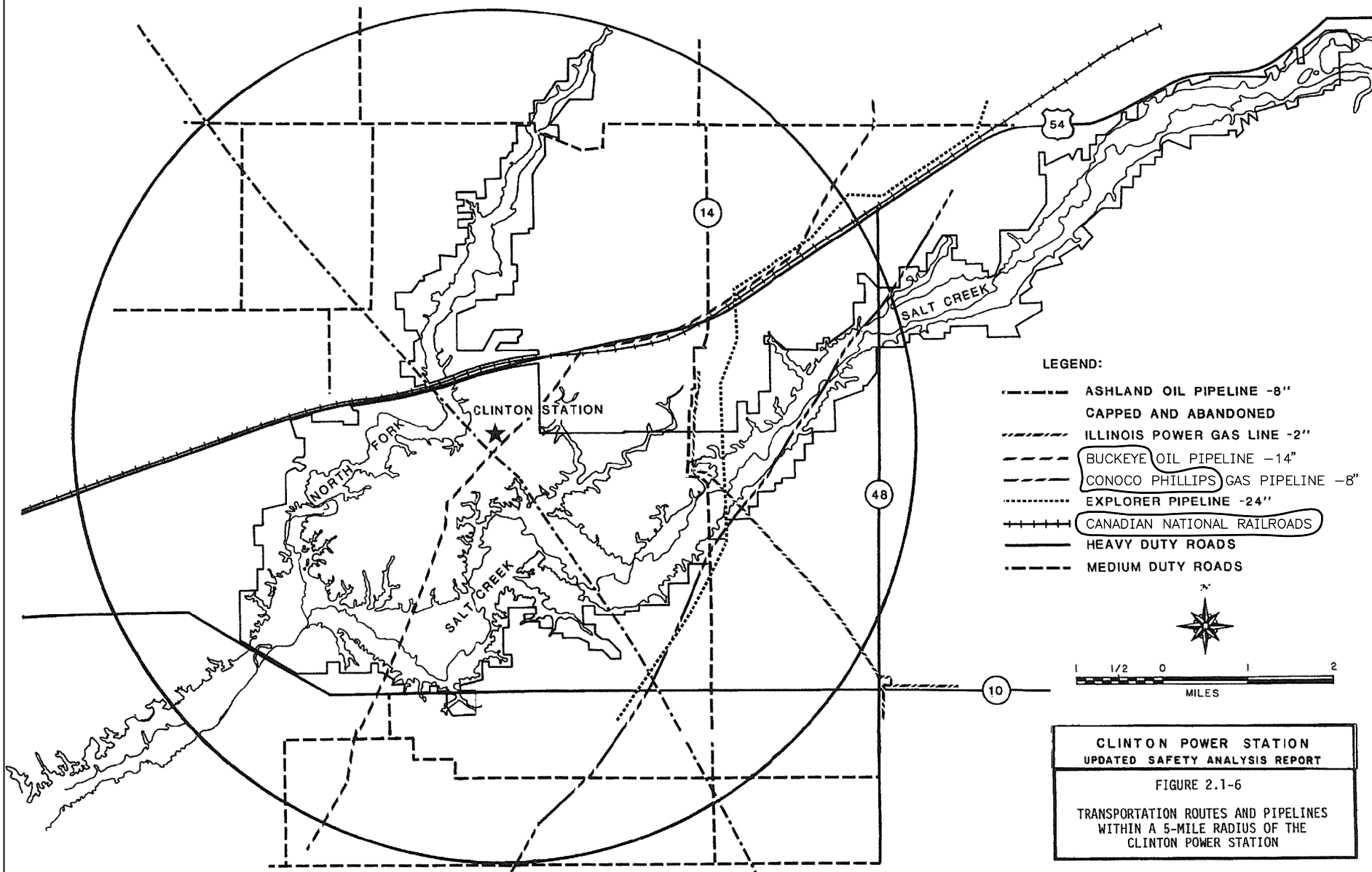
LEGEND

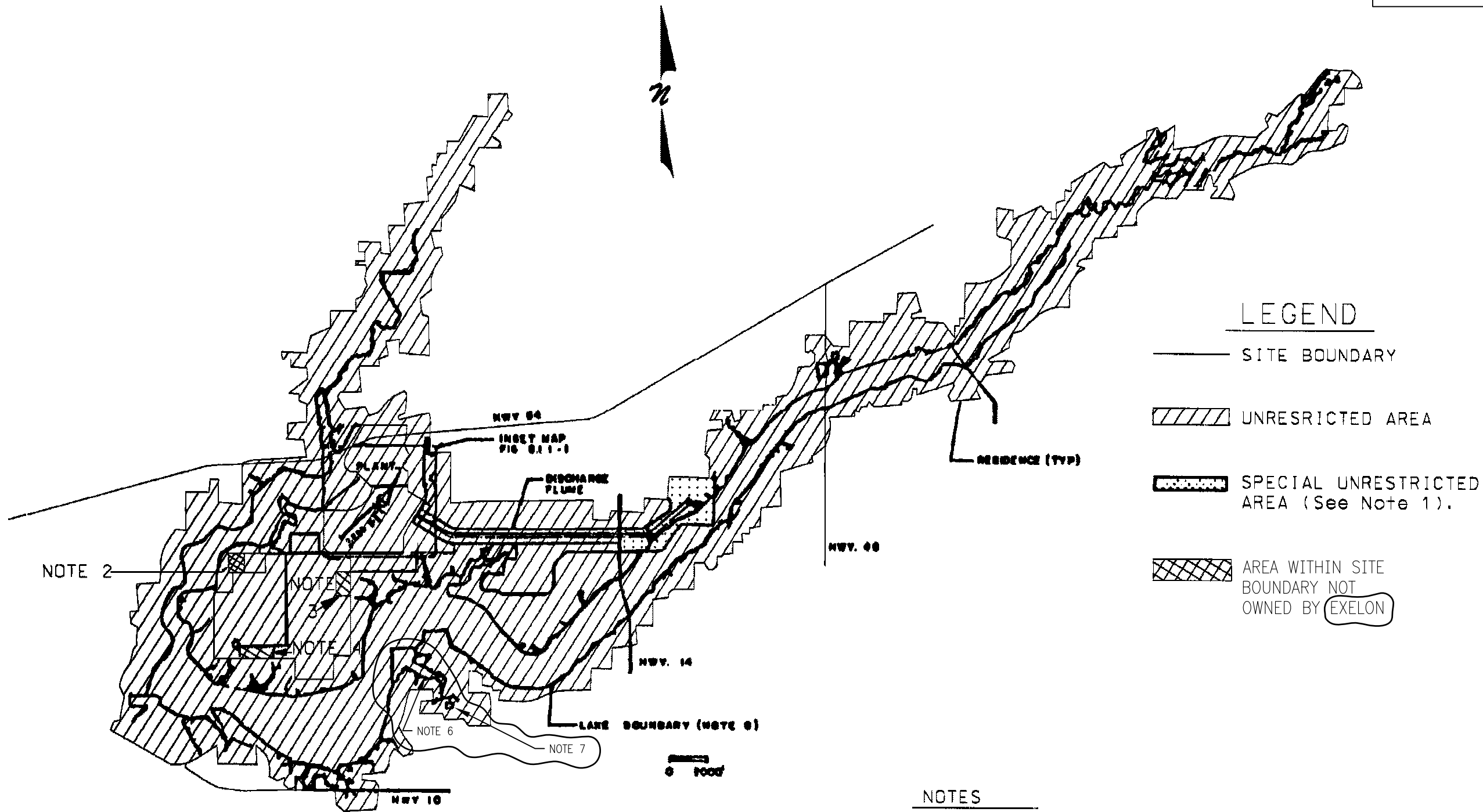
- PRIMARY ROADS
- RAILROADS
- AMTK AMTRACK
- BLOL BLOOME LINE
- CNW CHICAGO & NORTHWESTERN
- CSXT CSX TRANSPORTATION
- IC ILLINOIS CENTRAL
- IHRC HIRAIL CORPORATION
- NW NORFOLK & WESTERN
- SPSCl SOUTHERN PACIFIC CHICAGO LINE
- TPW TOLEDO, PEORIA & WESTERN
- UP UNION PACIFIC

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-5

RAILROADS WITHIN A 50-MILE
RADIUS OF THE SITE

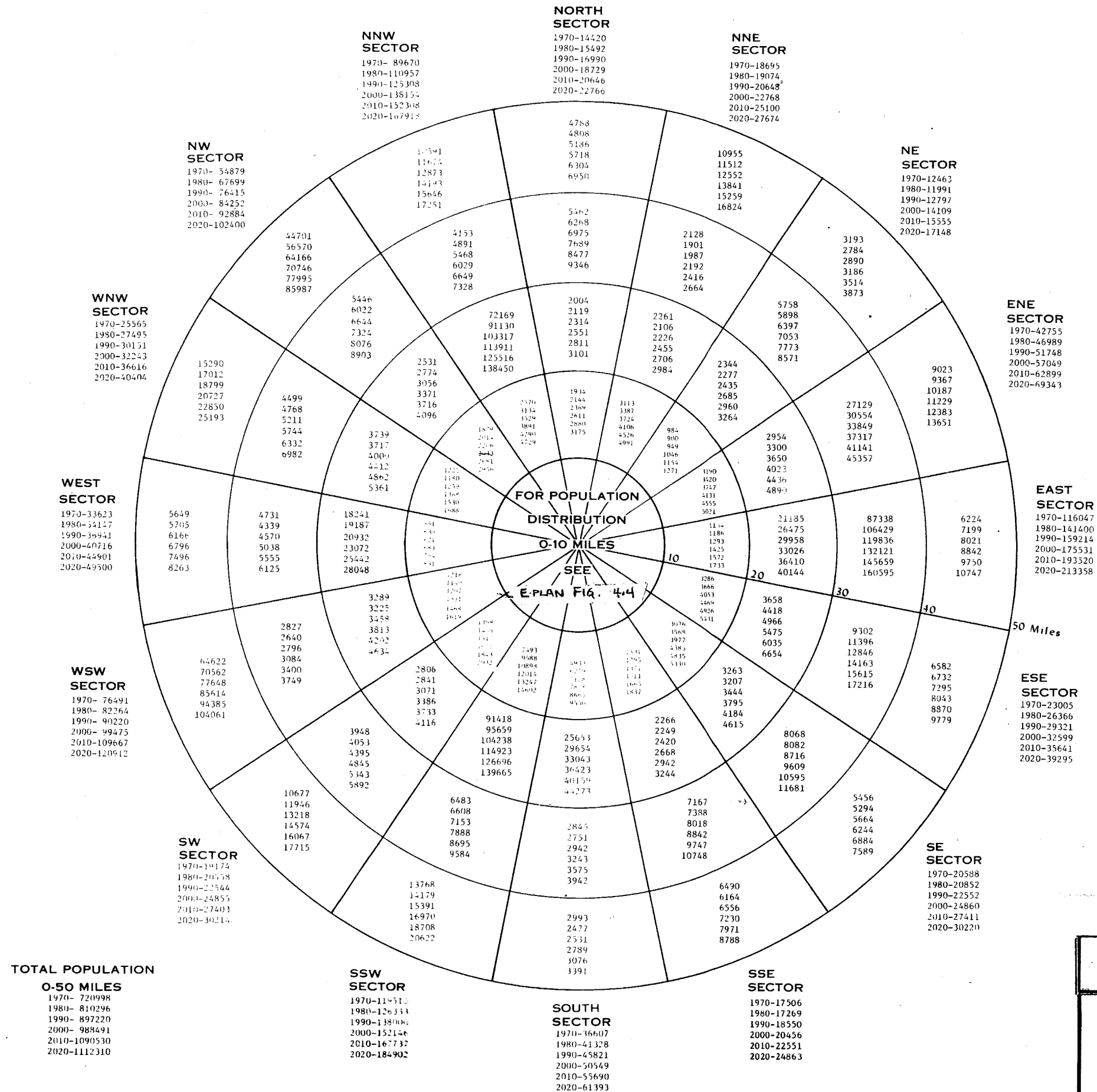


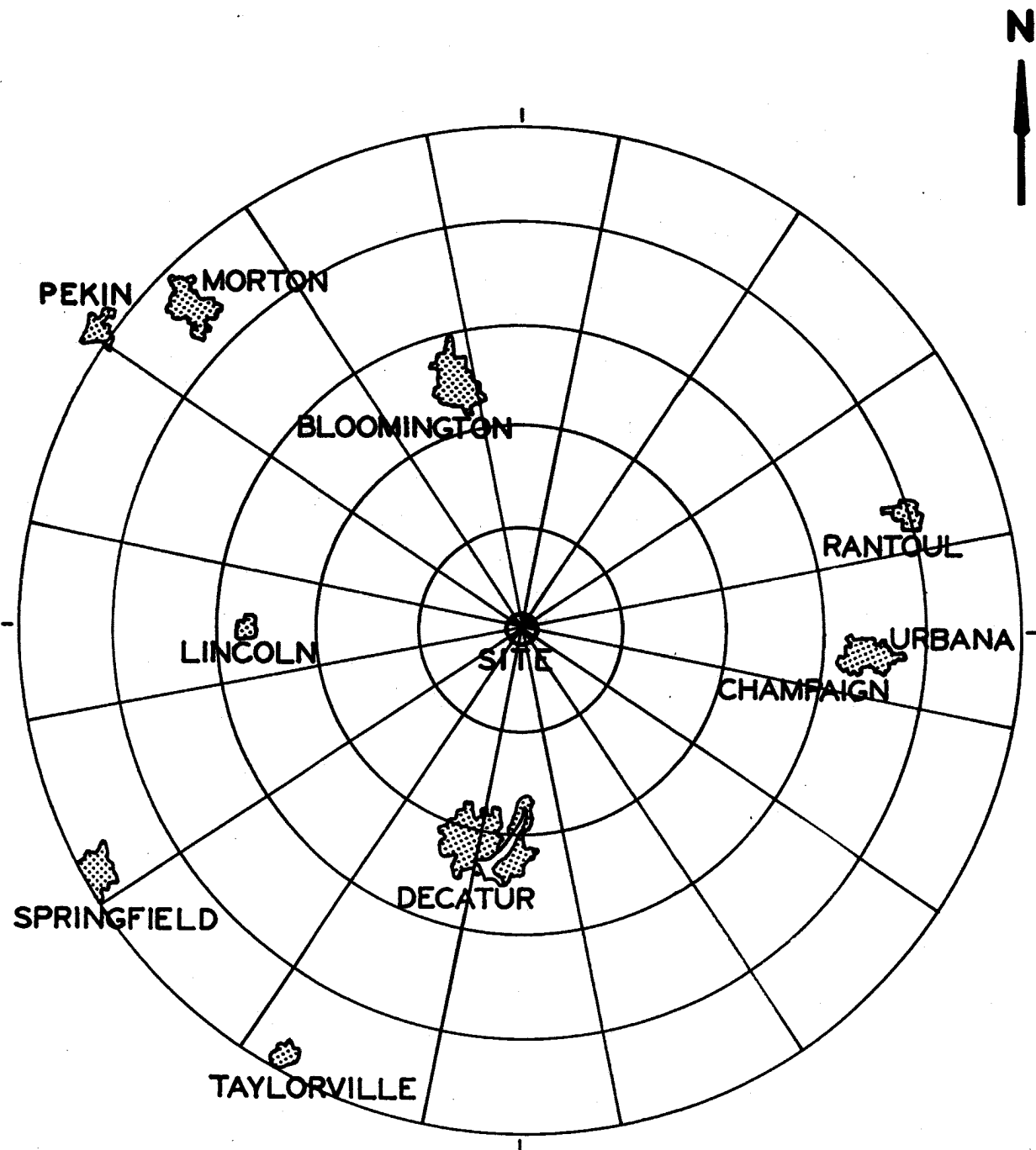


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-8
UNRESTRICTED AREAS FOR
RADIOACTIVE EFFLUENTS

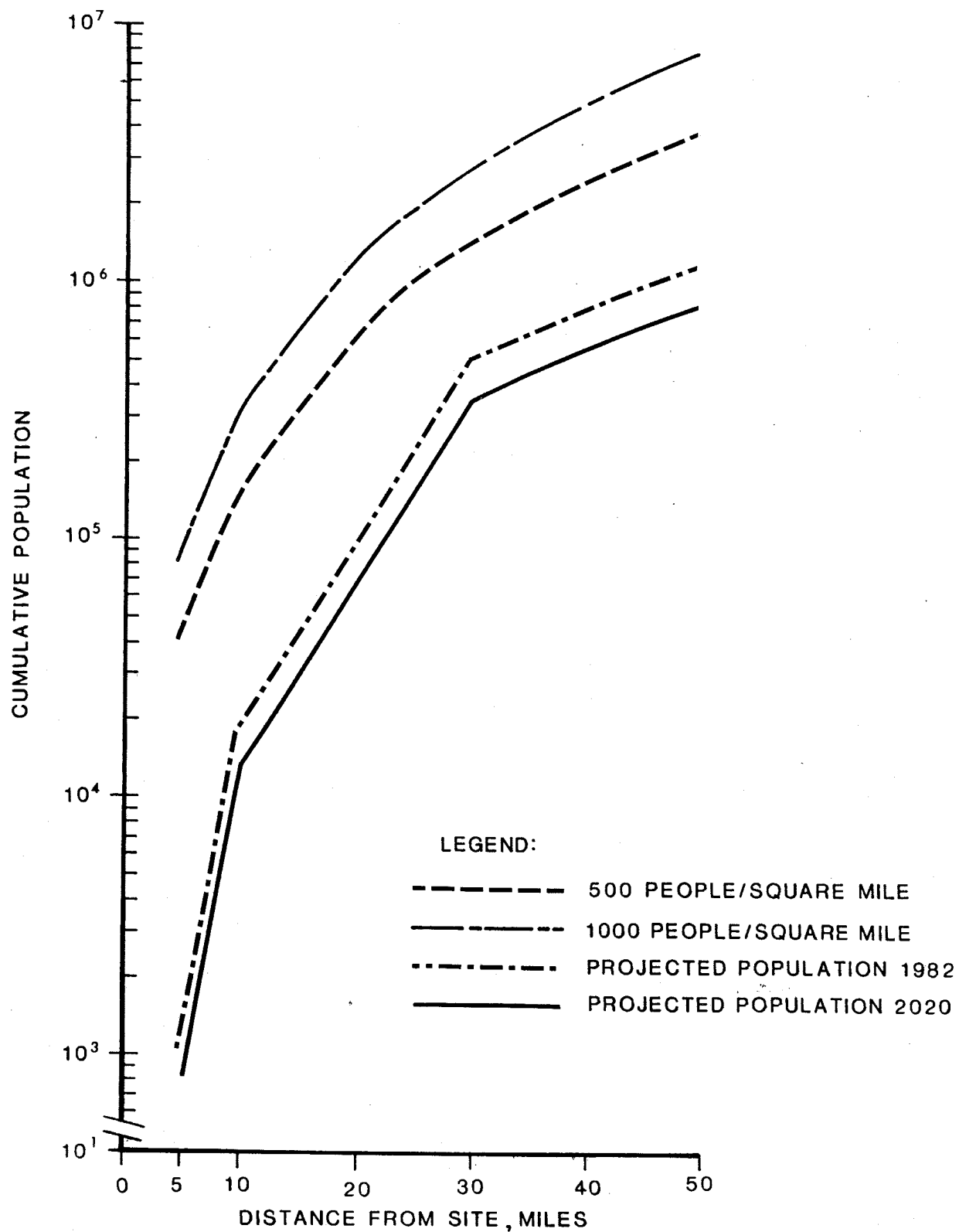
FIGURE 2.1-9
HAS BEEN DELETED





CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-11
MAJOR CITIES WITHIN 50 MILES
OF THE SITE



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.1-12

CUMULATIVE POPULATION DISTRIBUTION

REVISION 8
AUGUST 1999

1995
AVERAGE DAILY
TOTAL TRAFFIC

TRAFFIC VOLUME GROUPS

900	2400	4900	9000
0-999	1000-2499	2500-4999	5000 AND OVER

ANNUAL AVERAGE
24-HOUR TRAFFIC VOLUMES

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.2-1

HIGHWAY TRANSPORTATION NETWORK AND
TRAFFIC VOLUME OF DEWITT COUNTY AND
ROUTES WITHIN 50 MILES OF THE SITE

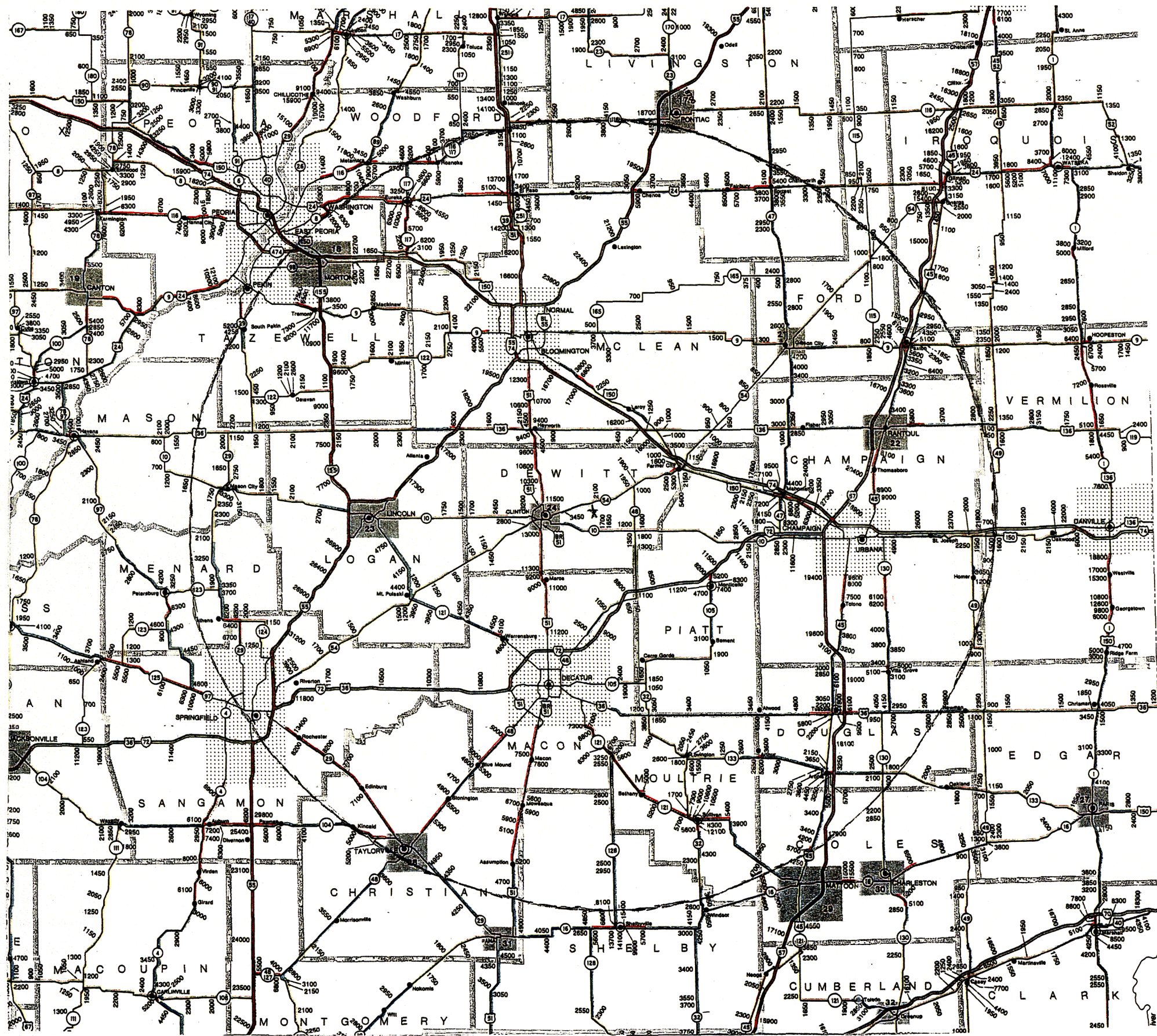
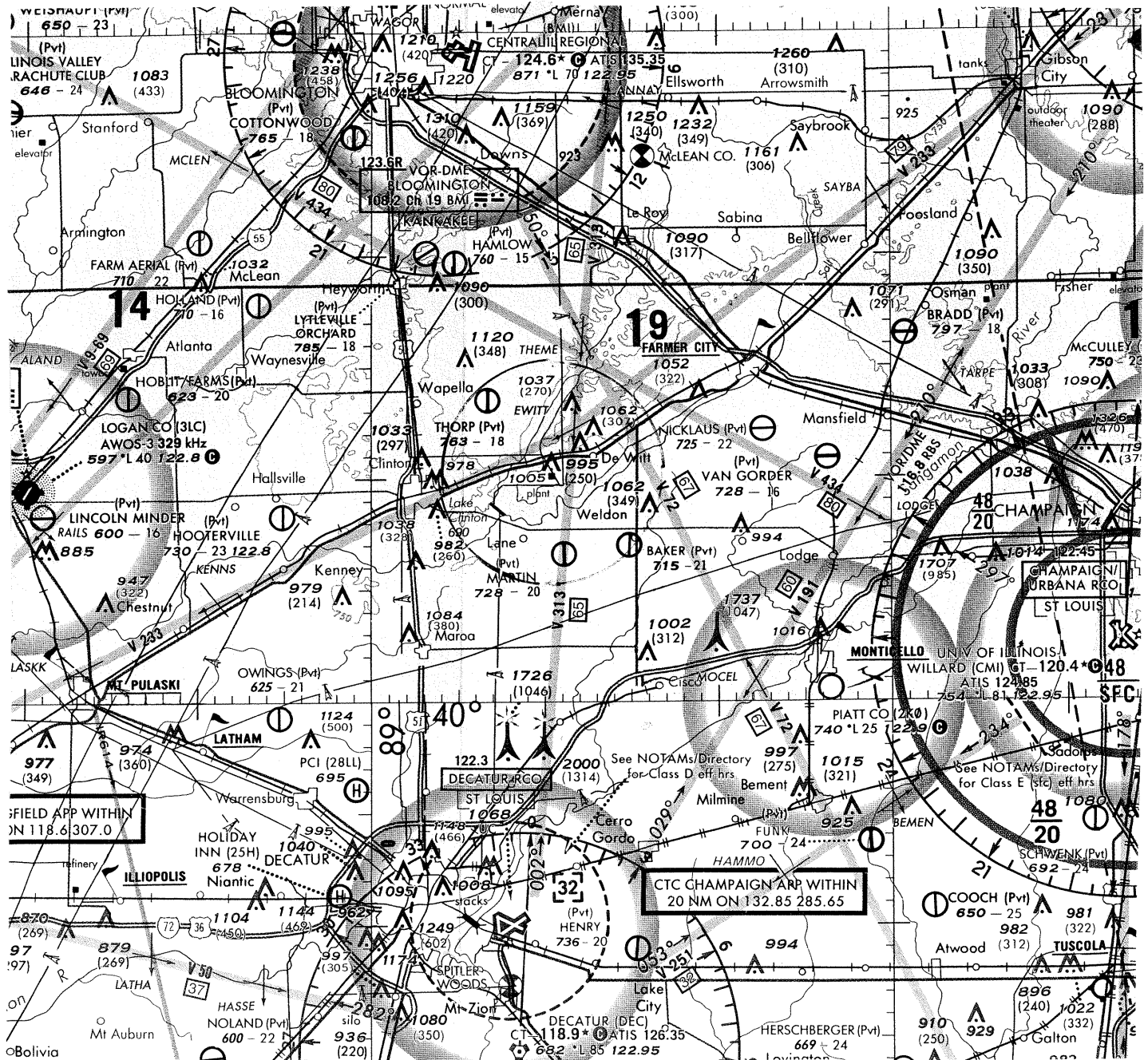
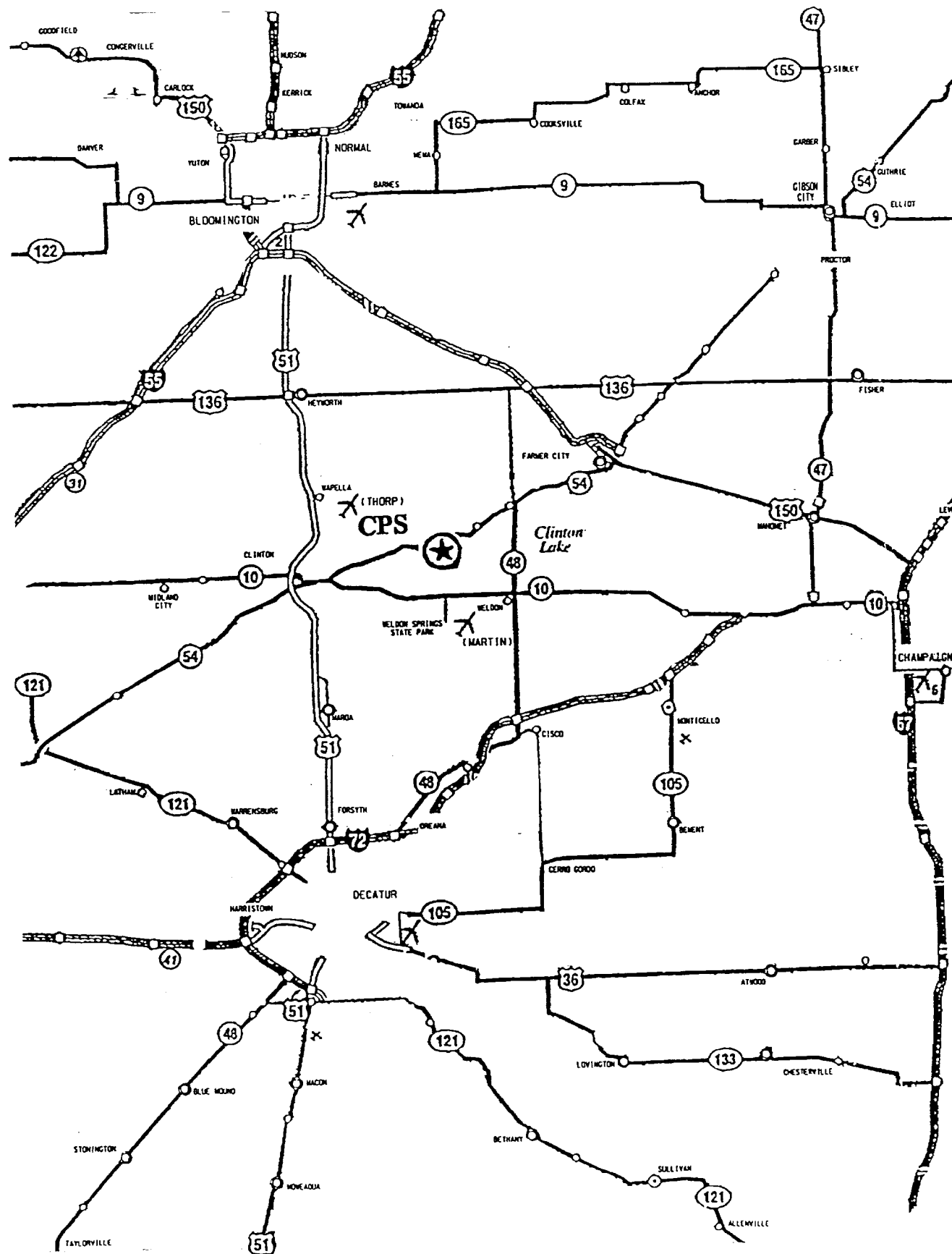


FIGURE 2.2-2
HAS BEEN DELETED



CLINTON POWER STATION

FIGURE 2.2-3
CHART OF LOW ALTITUDE
FEDERAL AIRWAYS



AIRPORTS WITHIN 5 MILES OF CPS AND SURROUNDING COMMERCIAL AIRPORTS		
AIRPORT	DISTANCE & DIRECTION FROM STATION	LAYOUT
SPENCER (RLA)*	1.8 MILES WSW	
MARTIN (RLA)(PRIVATE)	4.5 MILES S	(1) 2000 FT. RUNWAY
THORP (RLA)(PRIVATE)	4.75 MILES NW	(2) 1800 FT. TURF RUNWAYS EAST TO WEST/NORTH TO SOUTH
BAKER (RLA)(PRIVATE)	5.0 MILES SE	(1) 2100 FT. TURF RUNWAY NORTH-SOUTH
BLOOMINGTON/NORMAL	22.5 MILES NNW	(11-29) 6500 FT. CONCRETE RUNWAY EAST TO WEST (2-20) 7000 FT. CONCRETE RUNWAY SOUTH TO NORTH
DECATUR	22.5 MILES S	(6-24) 8500 FT. CONCRETE RUNWAY NORTHEAST TO SOUTHWEST (12-30) 6800 FT. CONCRETE RUNWAY NORTHWEST TO SOUTHEAST (18-36) 5300 FT. CONCRETE RUNWAY NORTH - SOUTH

* This airport is now owned by Illinois Power Company and is no longer operational.

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.2-4
LOCATIONS AND LAYOUTS OF
AIRPORTS WITHIN 5 MILES OF
CPS AND DECATUR AND BLOOMINGTON
AIRPORTS

**OF TORNADOES
COUNTY (1916-1969)
EAR PERIOD**

JO DAVIESS 3 STEPHENSON 3 WINNEBAGO 5 BOONE 1 McHENRY 4 LAKE 3

CARROLL 8 OGLE 6 DE KALB 3 KANE 2 COOK 8 DU PAGE 22

WHITESIDE 6 LEE 6 KENDALL 2 WILL 8

HENRY 7 BUREAU 5 LA SALLE 9 GRUNDY 3 KANKAKEE 10

ROCK ISLAND 8 MERCER 3 KNOX 4 PUTNAM 4 MARSHALL 5 LIVINGSTON 5 IROQUOIS 9

HENDERSON 3 WARREN 3 STARK 2 PEORIA 4 WOODFORD 4 McLEAN 6 FORD 6 VERMILION 13

6 HANCOCK 2 Mc DONOUGH 6 MASON 5 LOGAN 10 SITE 19 CHAMPAIGN 13

ADAMS 5 BROWN 2 SCHUYLER 2 MENARD 10 DE WITT 3 PIATT 4 EDGAR 3

PIKE 4 CASS 1 MORGAN 10 SANGAMON 8 MACON 1 MOULTRIE 3 DOUGLAS 3

SCOTT 5 GREENE 5 MACOUPIN 9 CHRISTIAN 7 SHELBY 1 COLES 3 CLARK 1

CALHOUN 6 JERSEY 8 MONTGOMERY 8 FAYETTE 2 EFFINGHAM 7 JASPER 4 CRAWFORD 4

MADISON 18 BOND 0 CLAY 2 MARION 2 CLAY 2 WAYNE 2 RICHLAND 4 LAWRENCE 4

ST. LOUIS CITY 11 ST. CLAIR 8 WASHINGTON 7 JEFFERSON 2 HAMILTON 4 WHITE 2

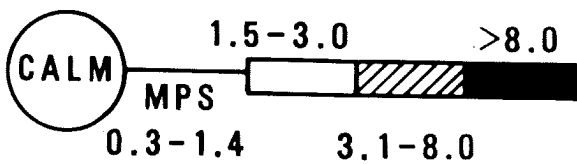
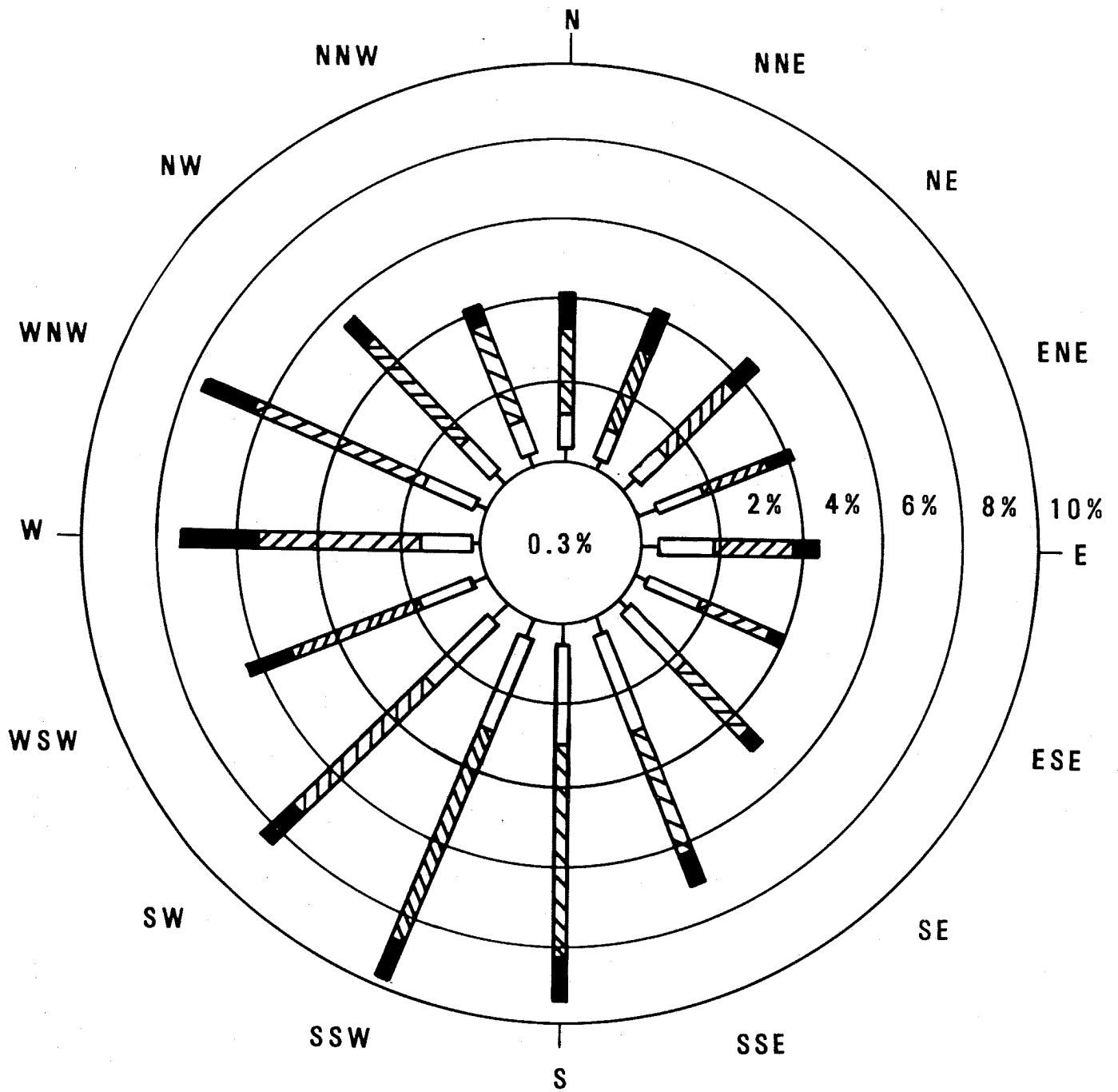
MONROE 8 RANDOLPH 20 PERRY 3 FRANKLIN 2 WILLIAMSON 4 SALINE 3 GALLATIN 3

JACKSON 6 UNION 4 JOHNSON 2 POPE 1 HARDIN 1

ALEXANDER 2 PULASKI 1 MASSAC 2



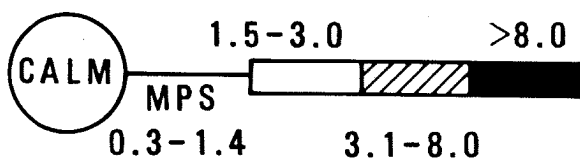
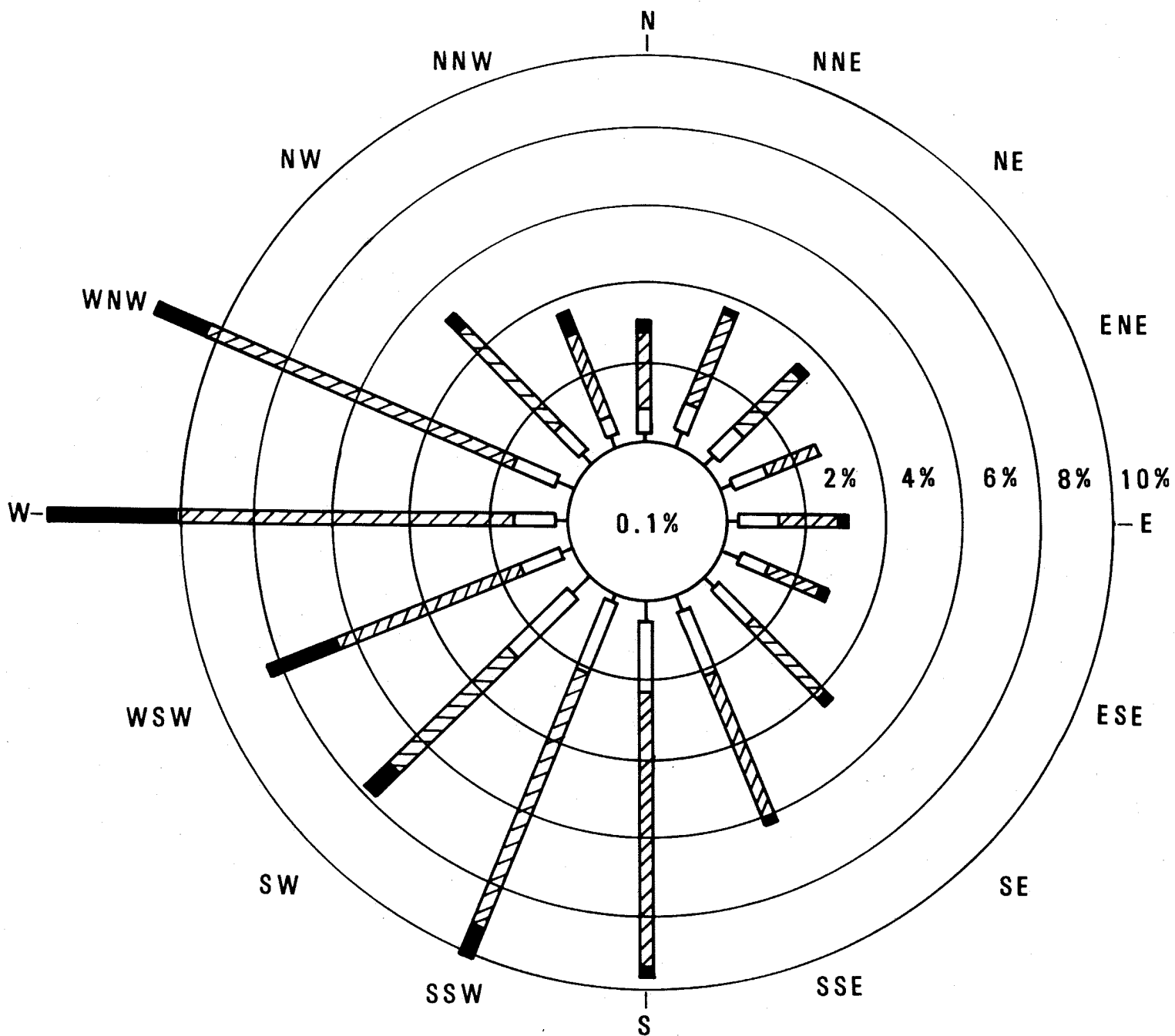
NUMBER OF TORNADOES PER COUNTY
(1916-1969) 54 YEAR PERIOD



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-2

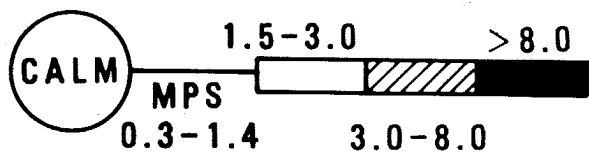
WIND ROSE, 10 METER LEVEL, CLINTON
POWER STATION SITE, PERIOD OF RECORD



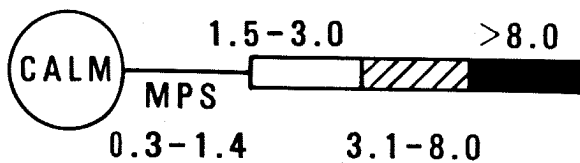
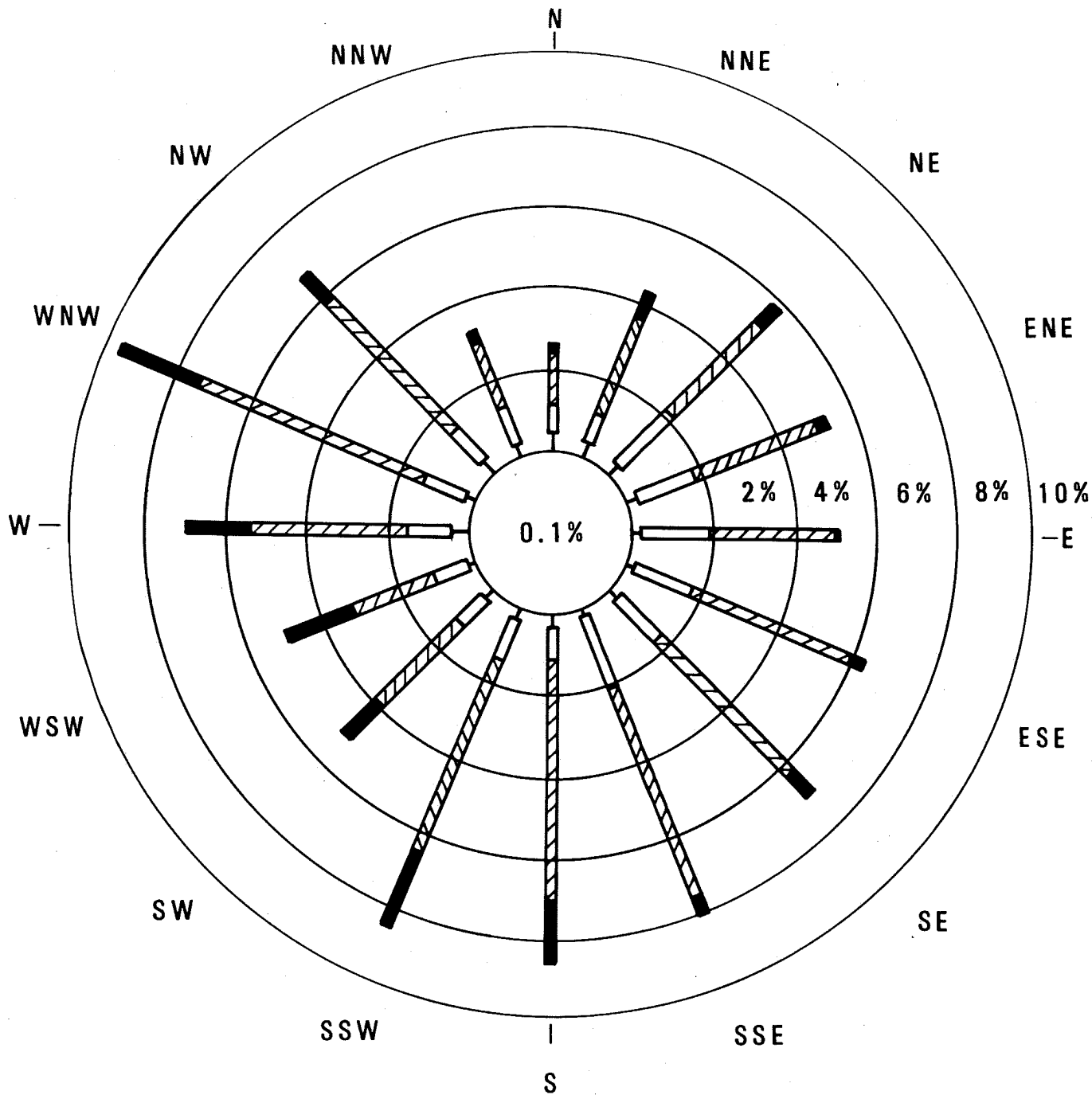
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-3

WIND ROSE, 10 METER LEVEL, CLINTON
POWER STATION SITE, COMPOSITE JANUARY



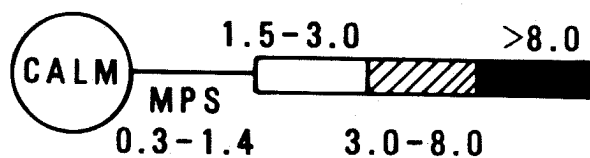
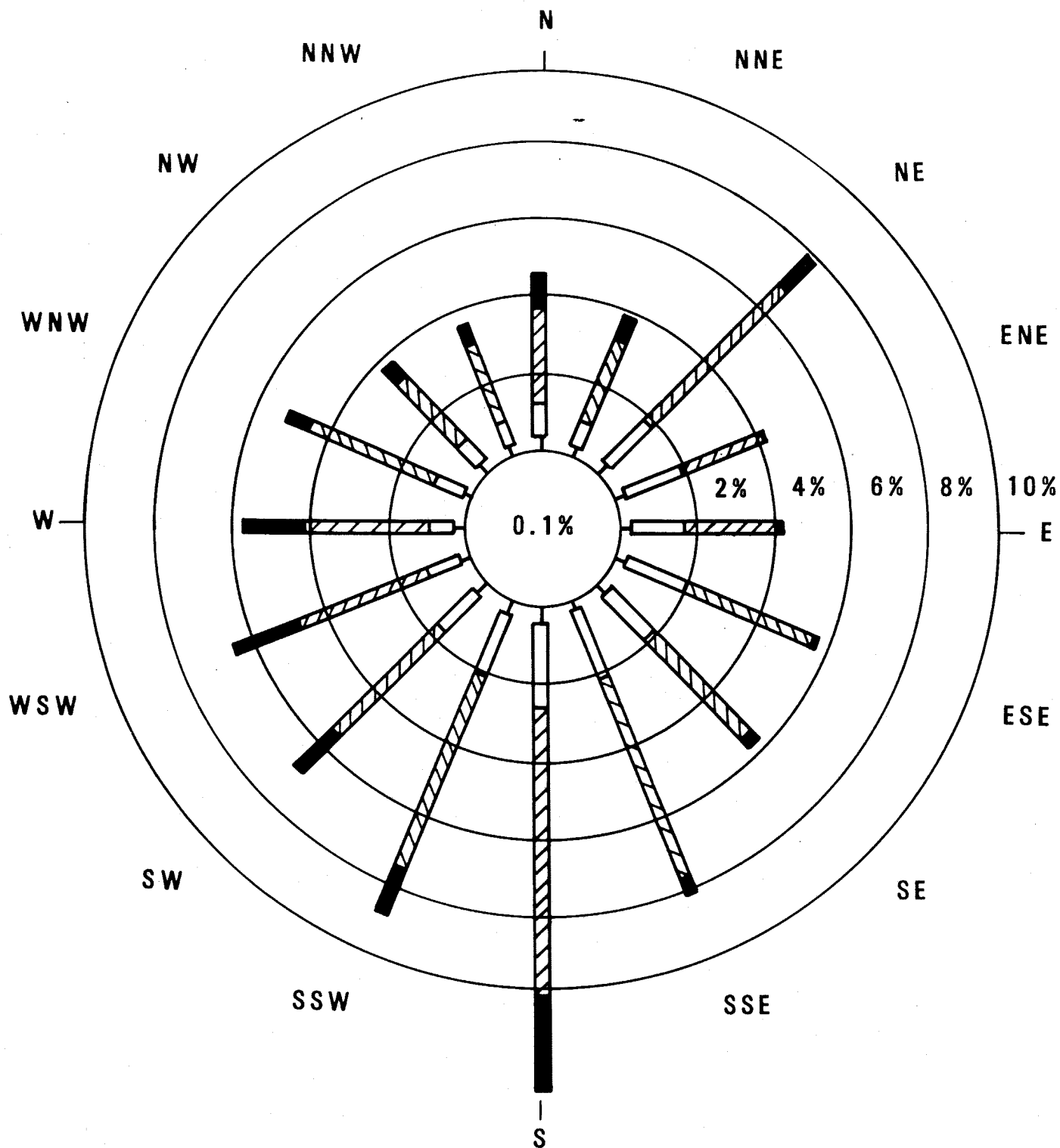
WIND ROSE, 10 METER LEVEL, CLINTON
POWER STATION SITE, COMPOSITE FEBRUARY



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-5

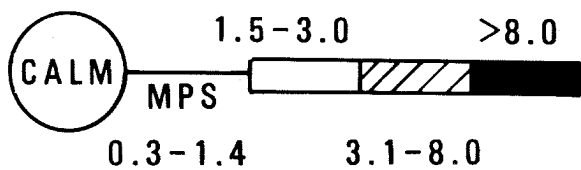
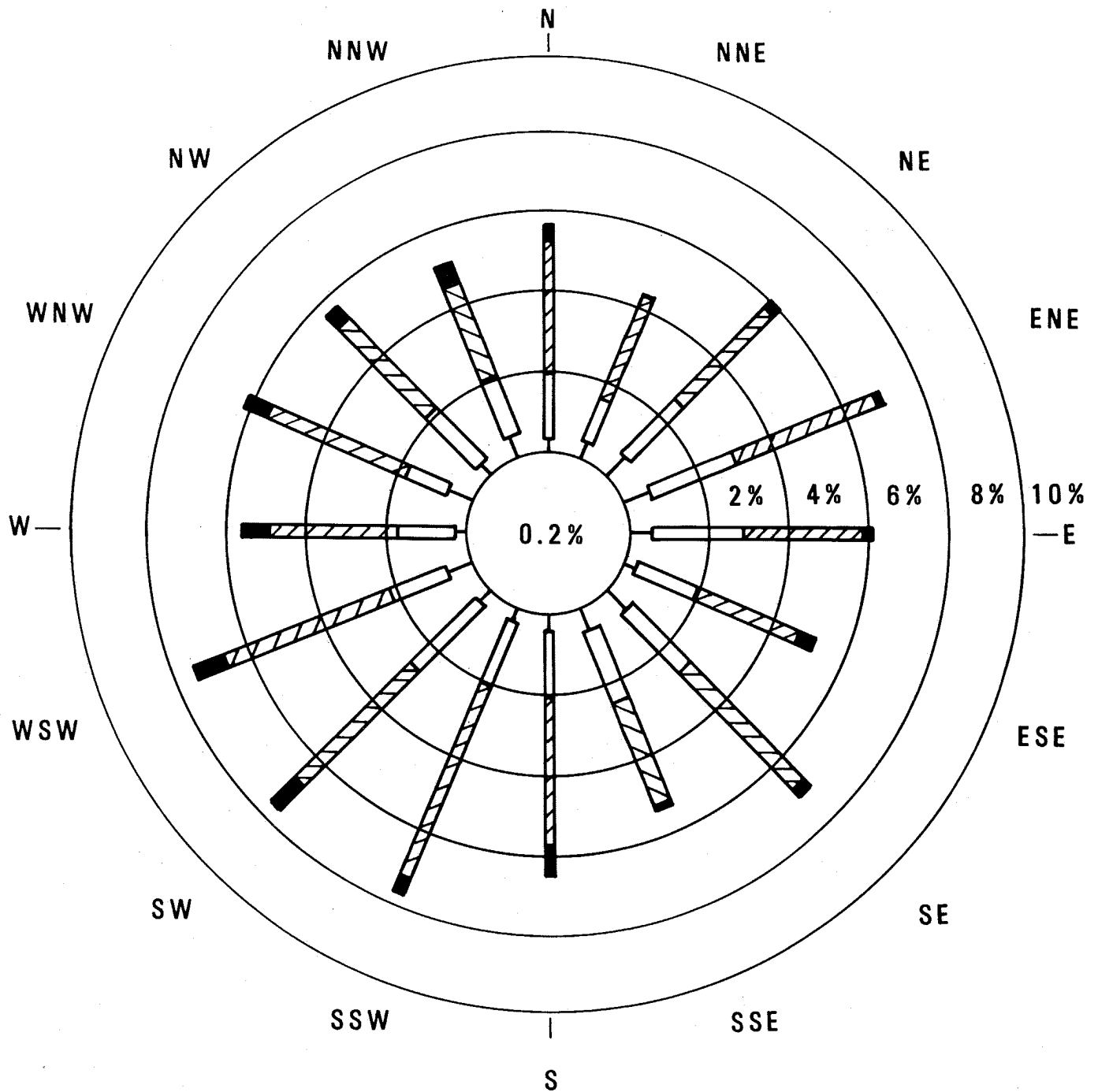
WIND ROSE, 10 METER LEVEL, CLINTON
POWER STATION SITE, COMPOSITE MARCH



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-6

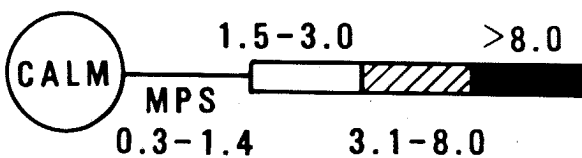
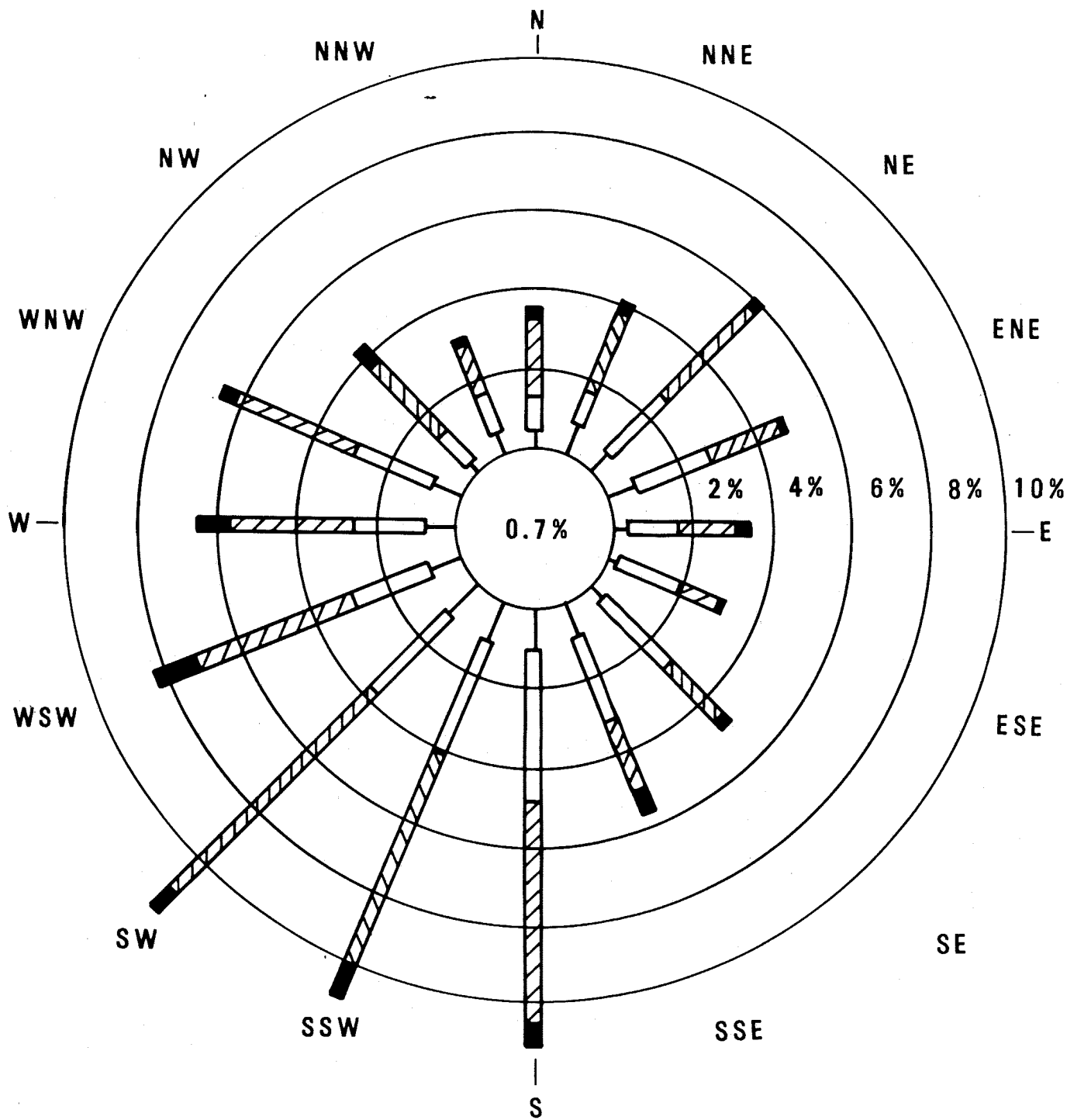
WIND ROSE, 10 METER LEVEL, CLINTON
POWER STATION SITE, COMPOSITE APRIL



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-7

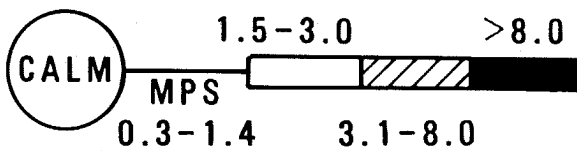
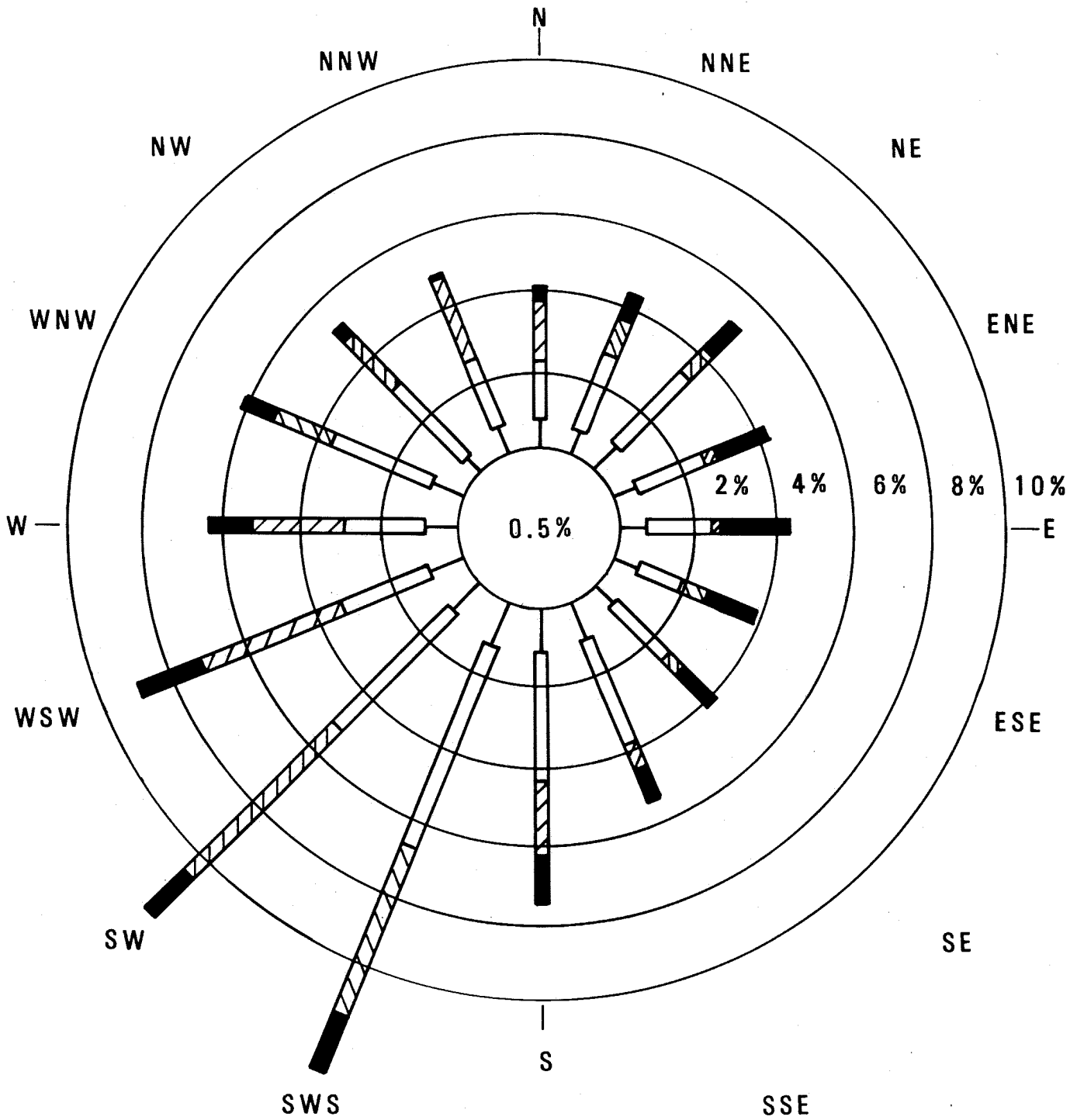
WIND ROSE, 10 METER LEVEL, CLINTON
POWER STATION SITE, COMPOSITE MAY



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-8

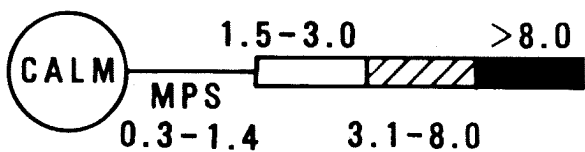
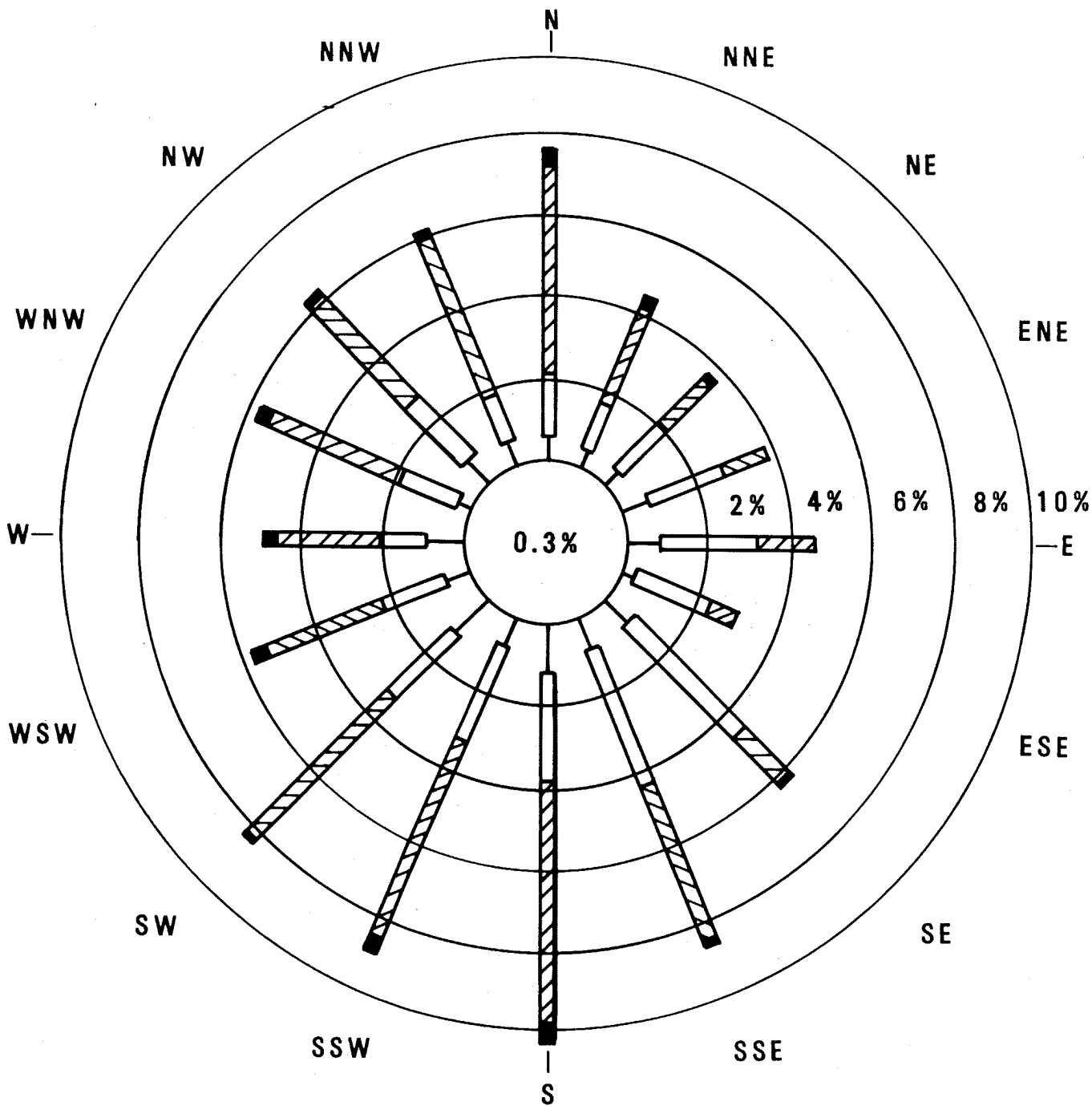
WIND ROSE, 10 METER LEVEL, CLINTON
POWER STATION SITE, COMPOSITE JUNE



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-9

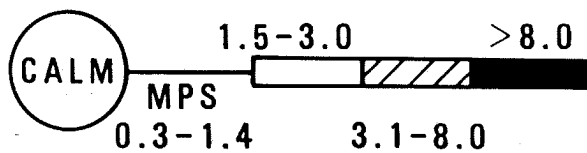
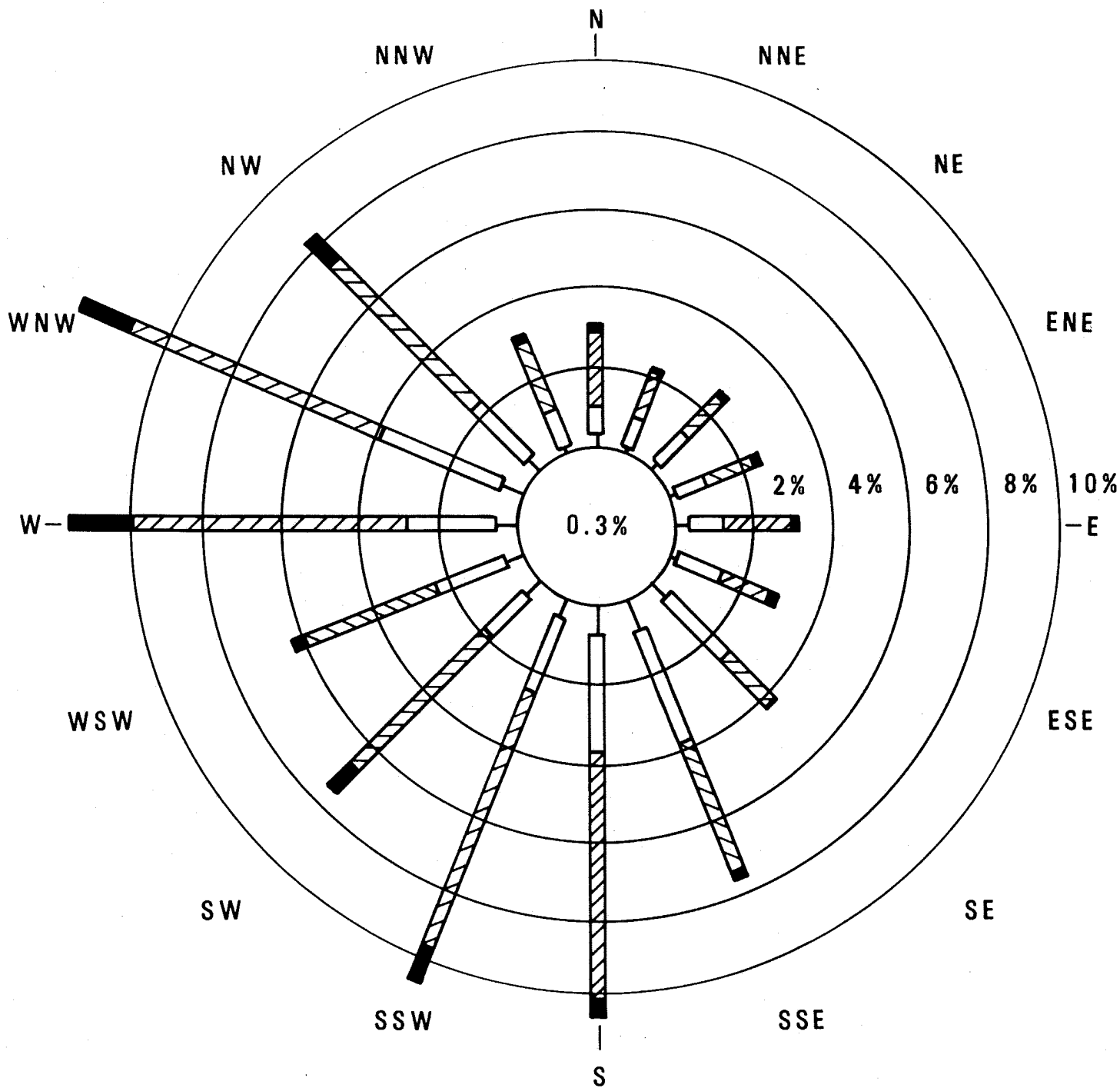
WIND ROSE, 10 METER LEVEL, CLINTON
POWER STATION SITE, COMPOSITE JULY



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-12

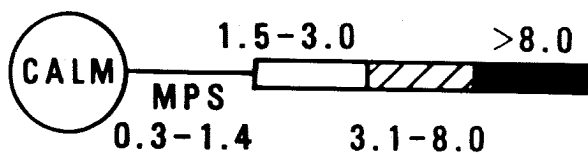
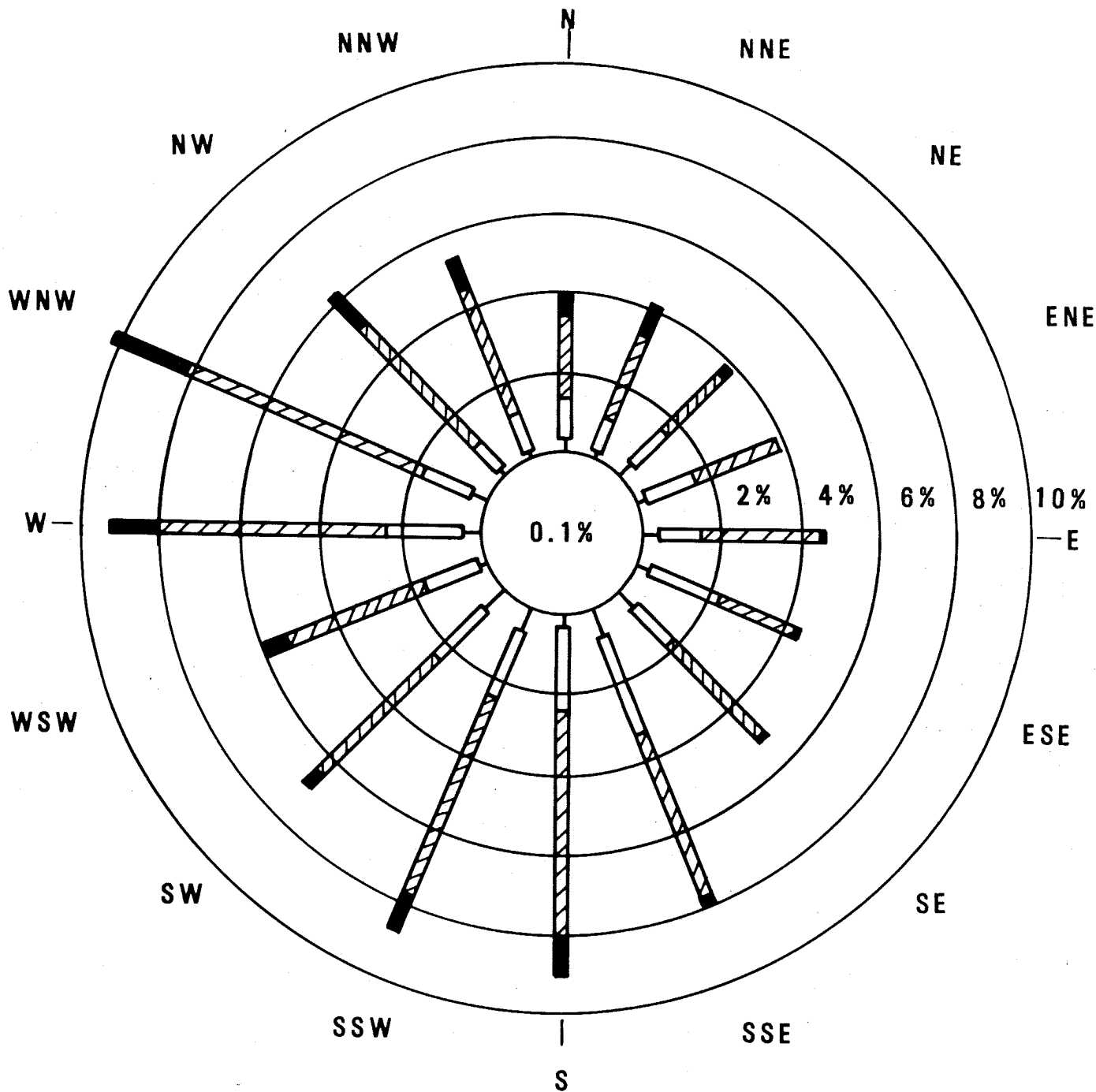
WIND ROSE, 10 METER LEVEL, CLINTON
POWER STATION SITE, COMPOSITE OCTOBER



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-13

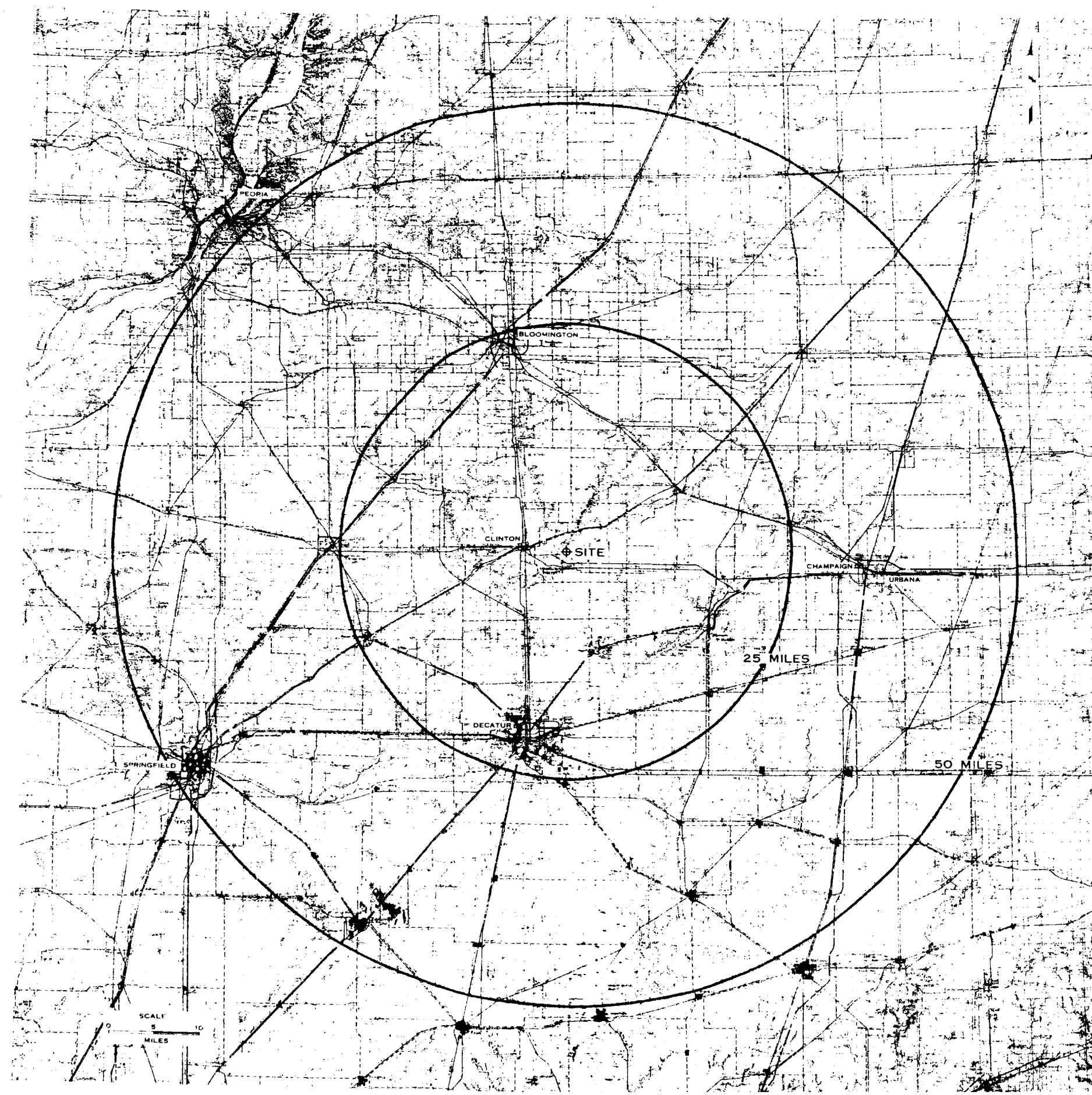
WIND ROSE, 10 METER LEVEL, CLINTON
POWER STATION SITE, COMPOSITE NOVEMBER



CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-14

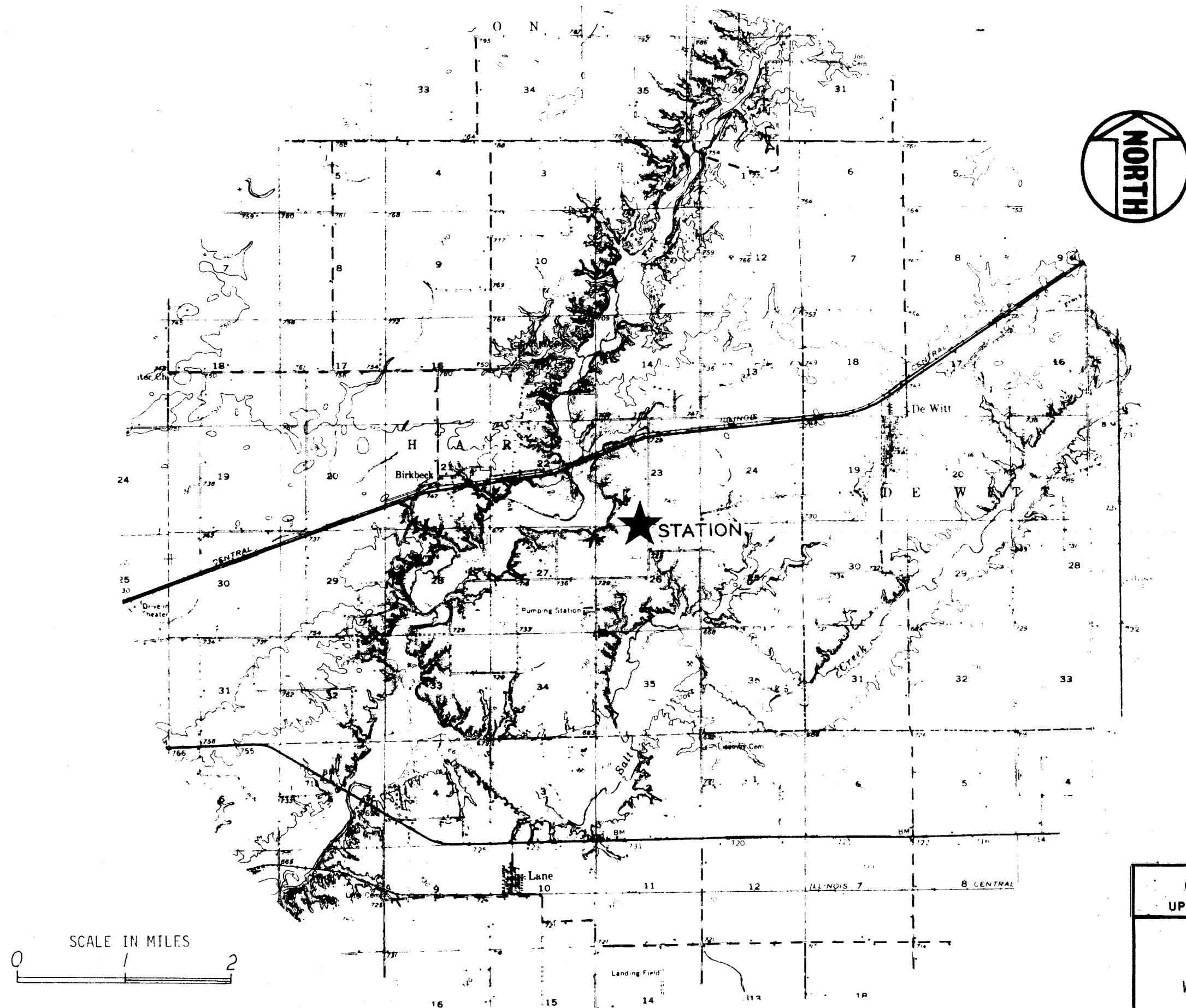
WIND ROSE, 10 METER LEVEL, CLINTON
 POWER STATION SITE, COMPOSITE DECEMBER



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-15

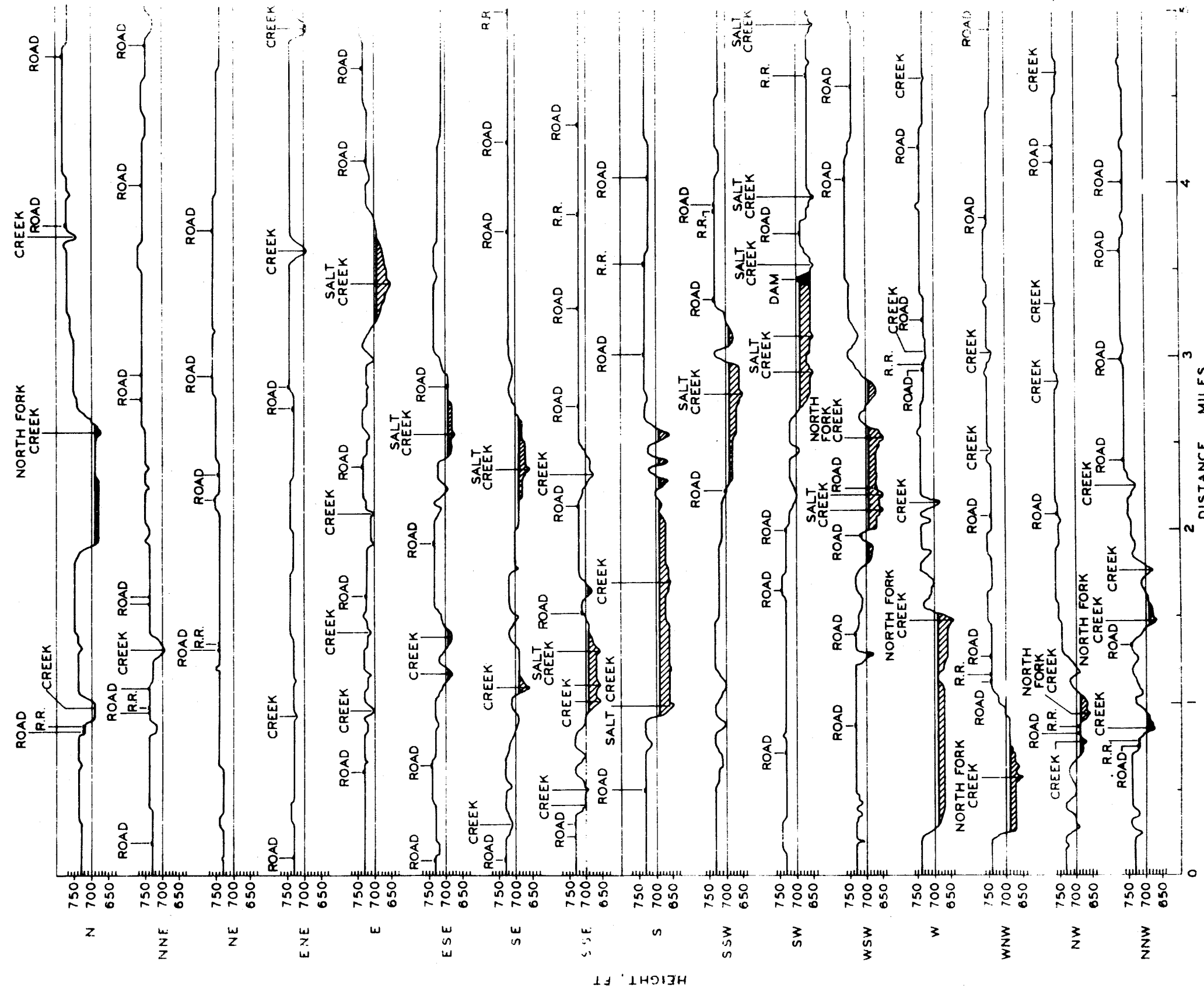
TOPOGRAPHIC MAP OF THE AREA
WITHIN 50 MILES OF THE CLINTON
POWER STATION SITE



**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

FIGURE 2.3-16

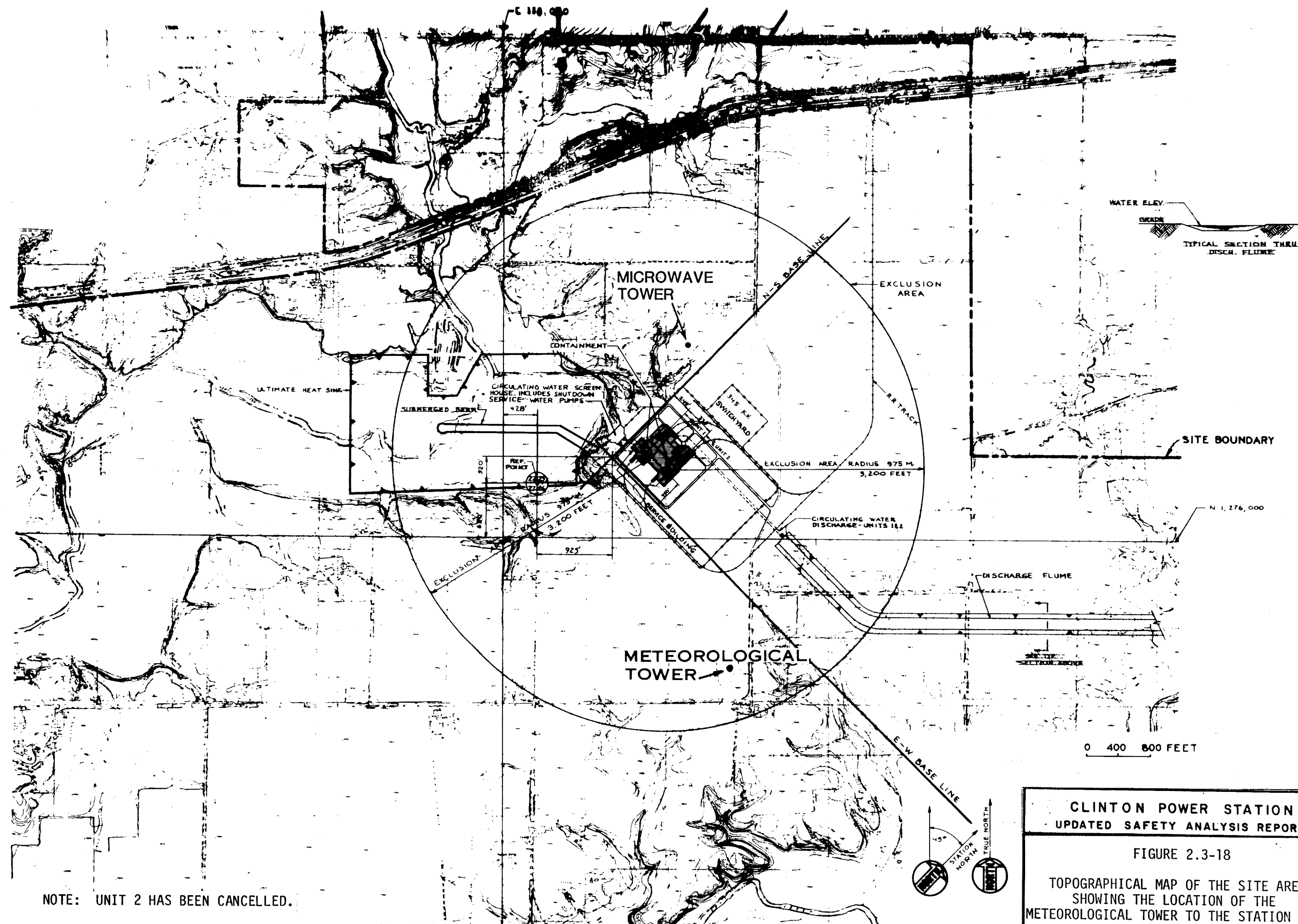
TOPOGRAPHIC MAP OF THE AREA
WITHIN 5 MILES OF THE CLINTON
POWER STATION SITE



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-17

TOPOGRAPHICAL CROSS SECTION AS A
FUNCTION OF THE DISTANCE FROM THE
CLINTON POWER STATION

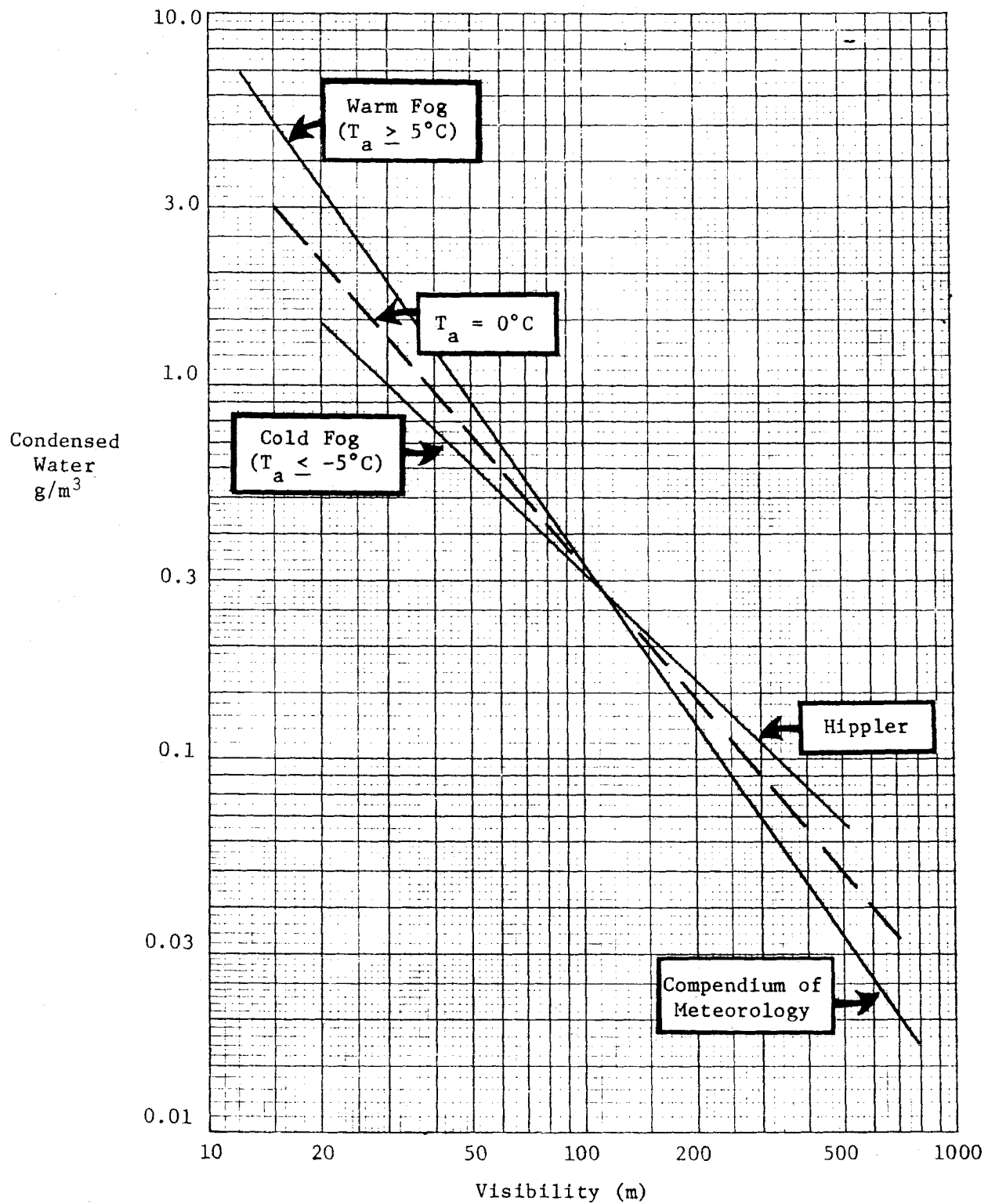


NOTE: UNIT 2 HAS BEEN CANCELLED.

CLINTON POWER STATION
 UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.3-18

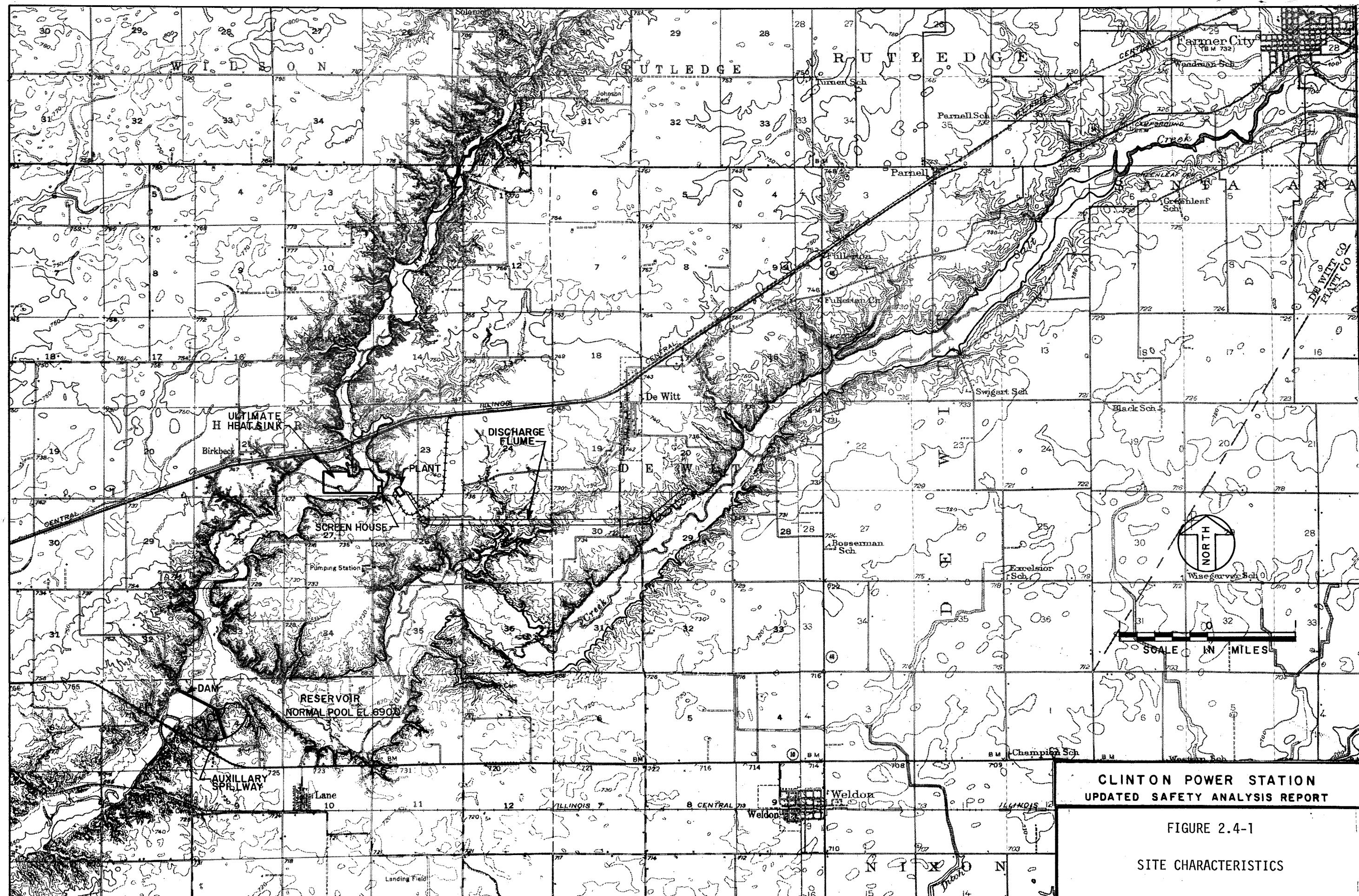
TOPOGRAPHICAL MAP OF THE SITE AREA
 SHOWING THE LOCATION OF THE
 METEOROLOGICAL TOWER TO THE STATION AREA

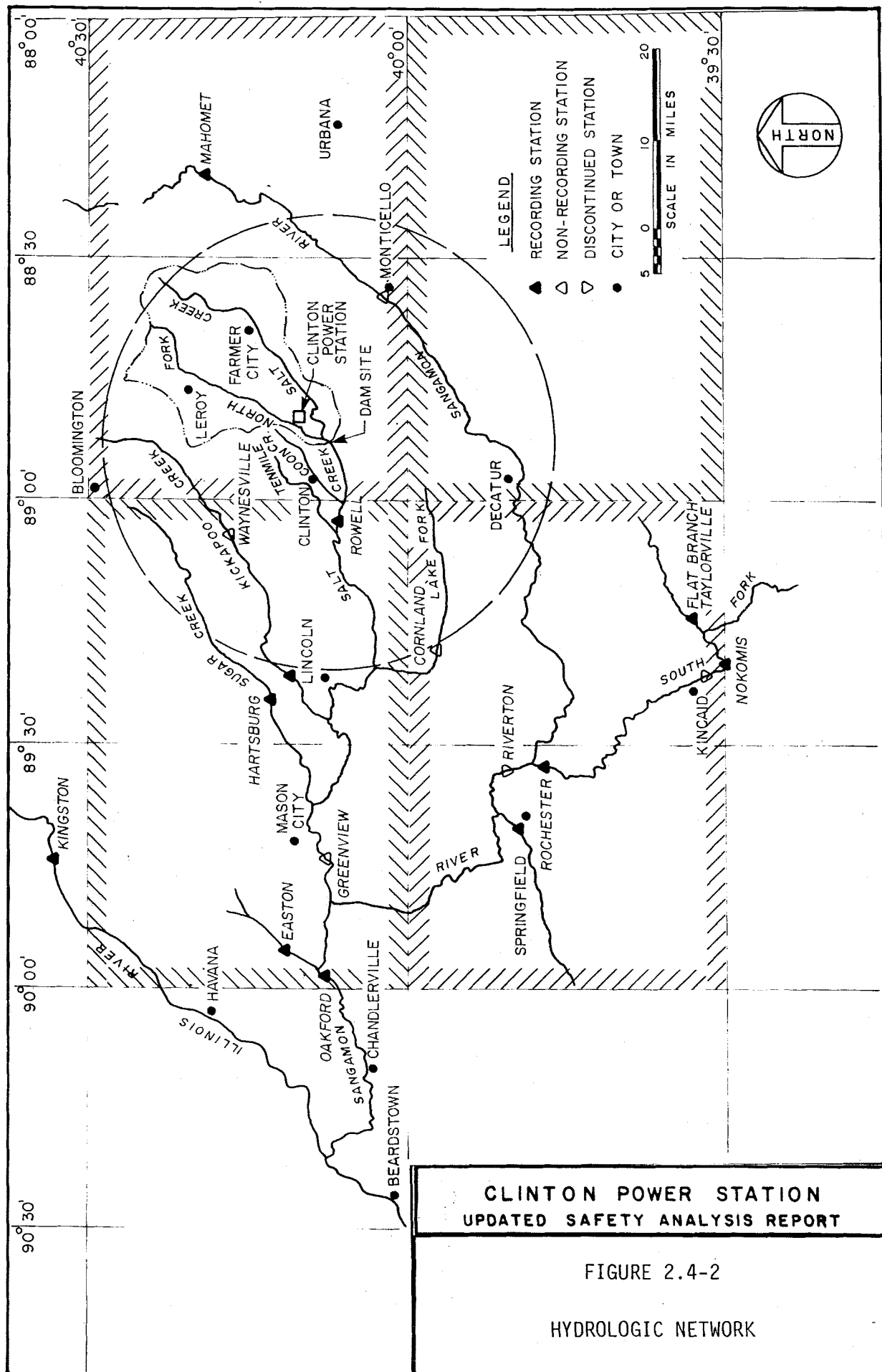


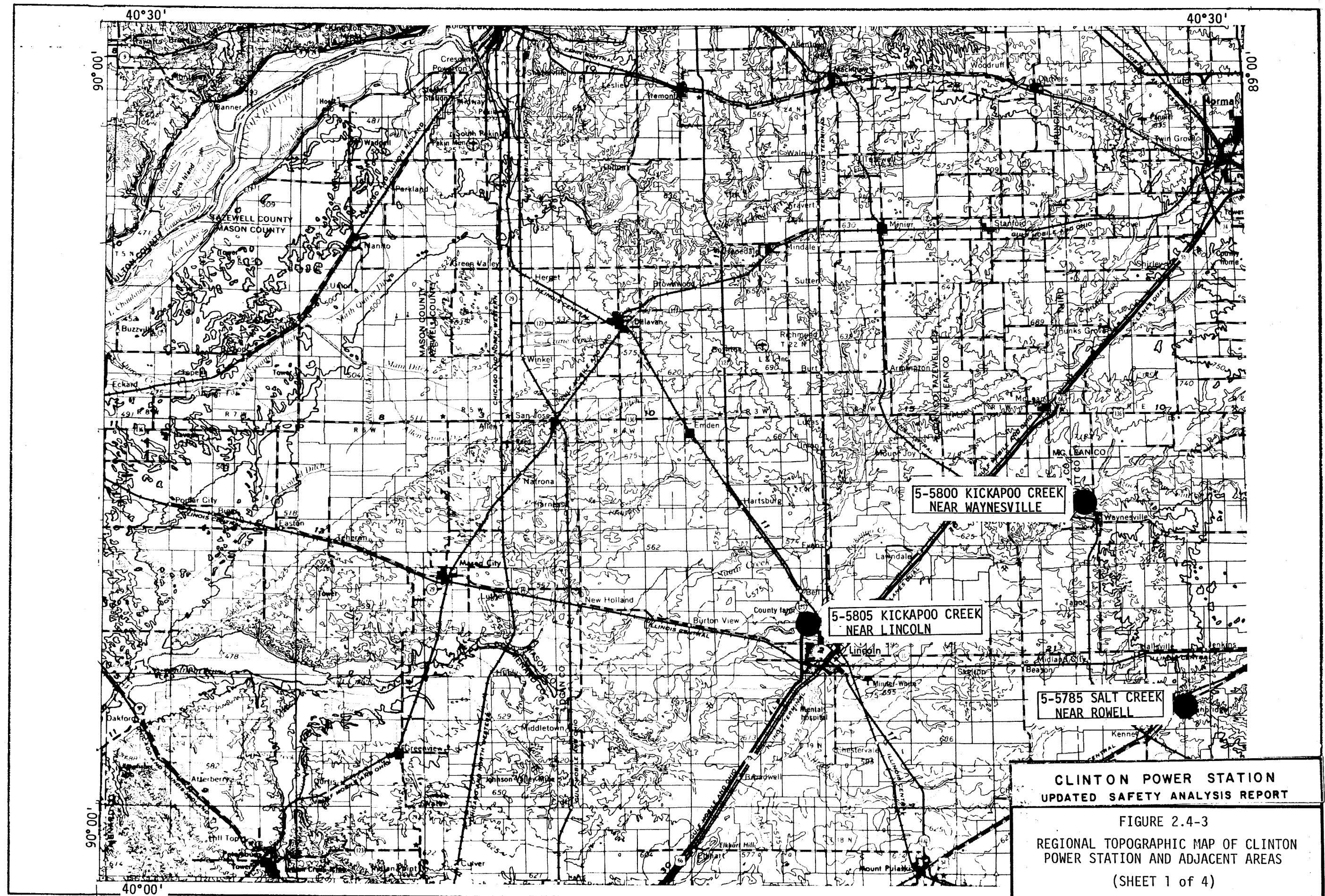
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

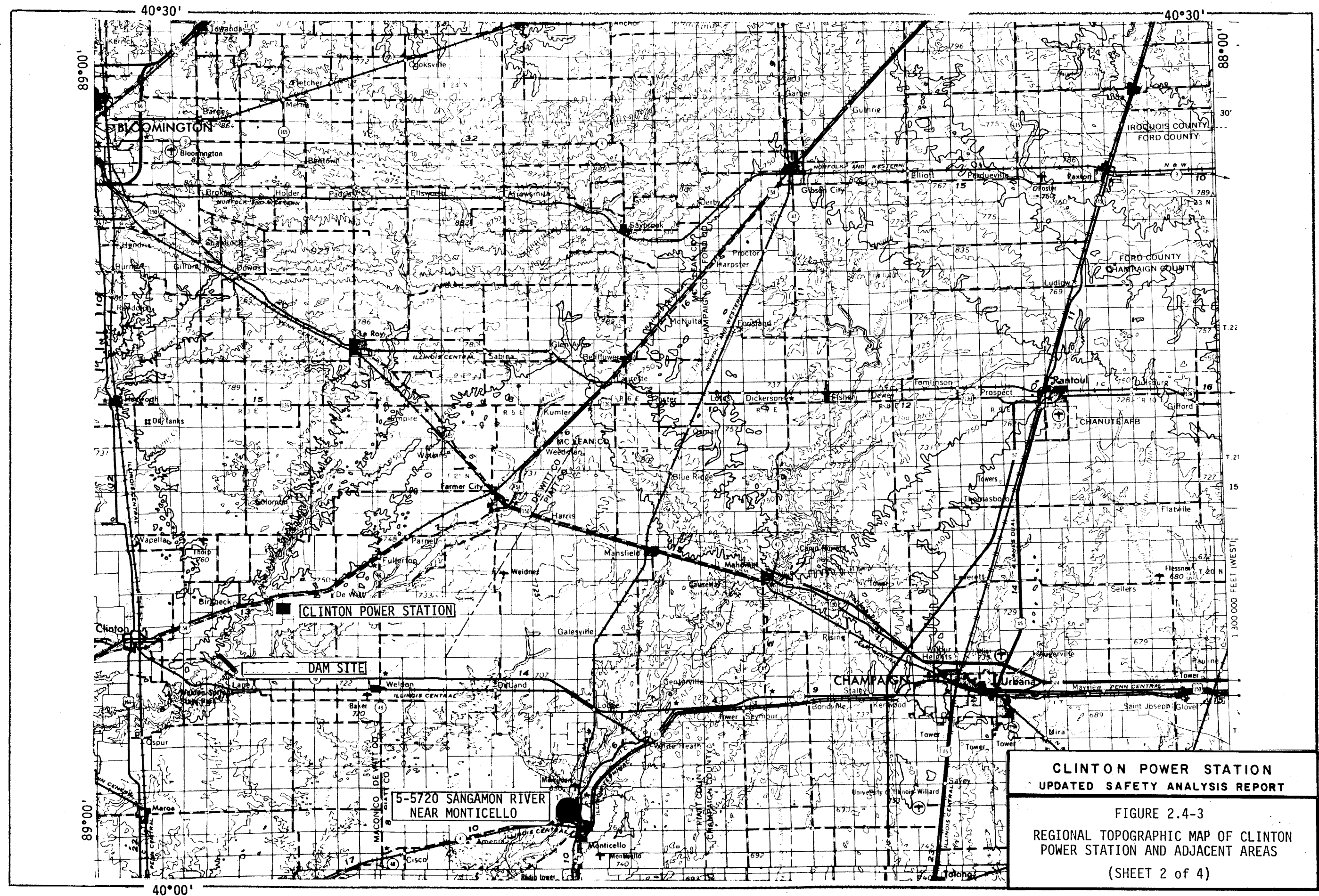
FIGURE A2.3-1

HORIZONTAL VISIBILITY AS A FUNCTION
OF CONDENSED WATER VAPOR AND
AMBIENT AIR TEMPERATURE



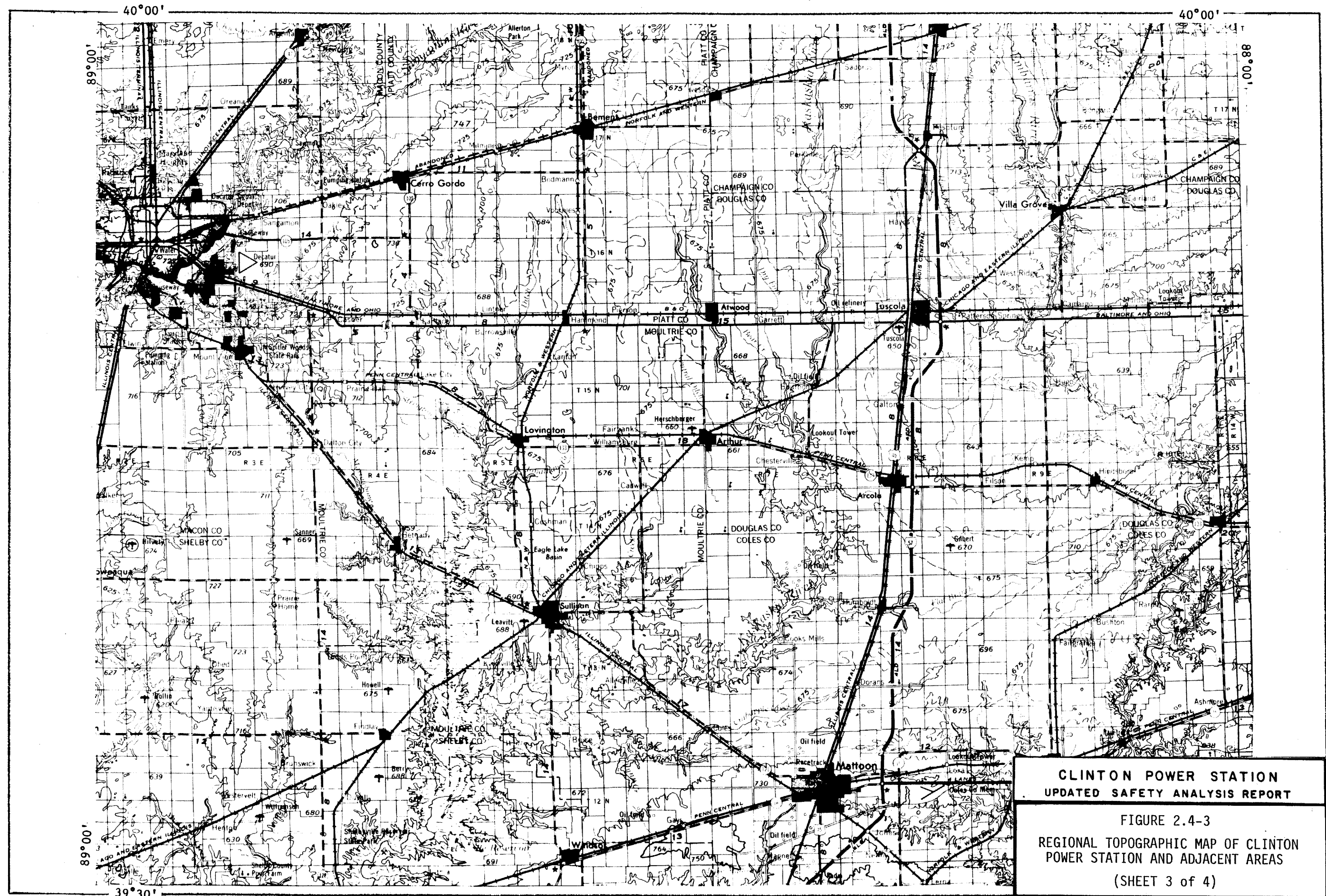


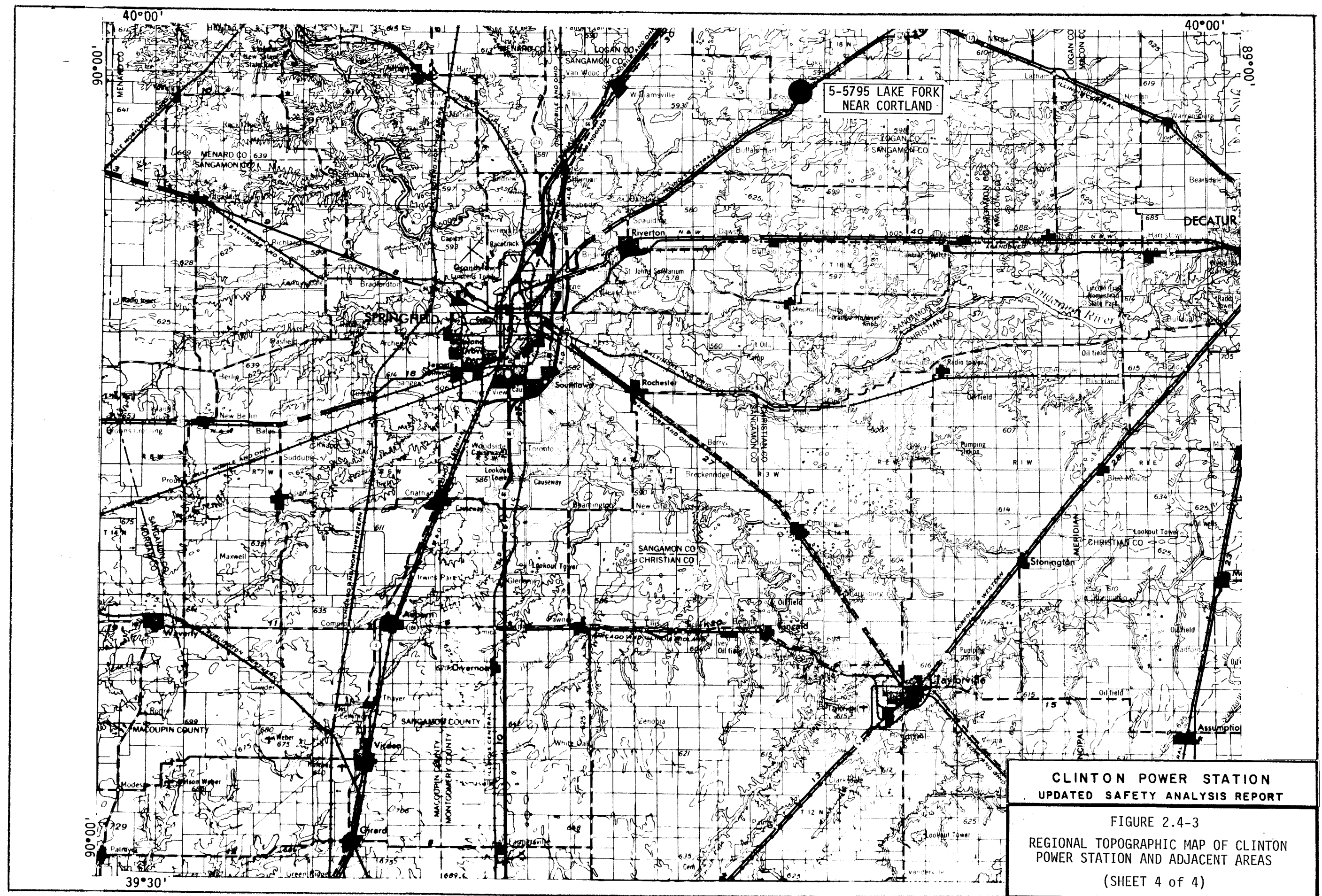


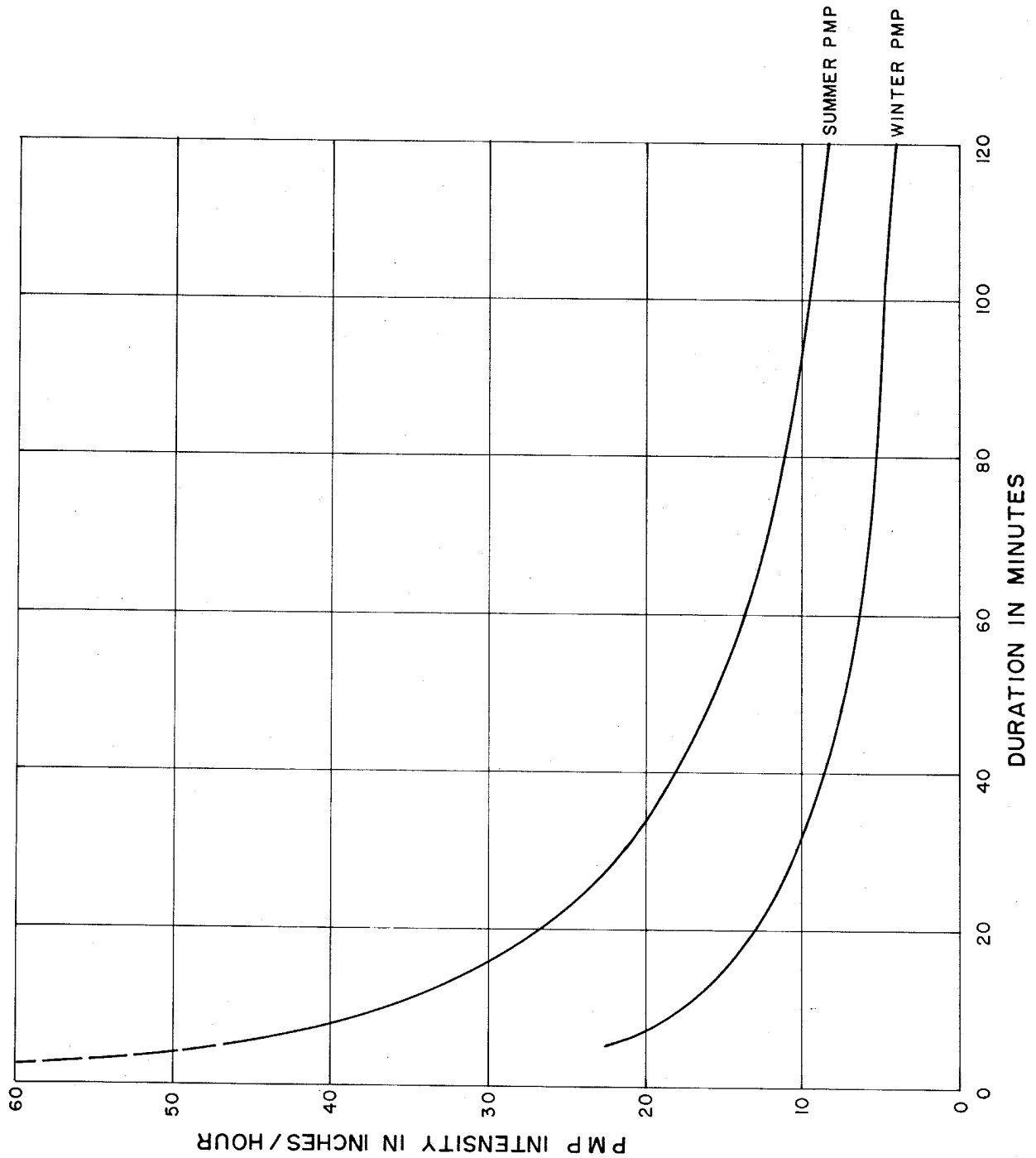


CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-3
REGIONAL TOPOGRAPHIC MAP OF CLINTON
POWER STATION AND ADJACENT AREAS
(SHEET 2 of 4)

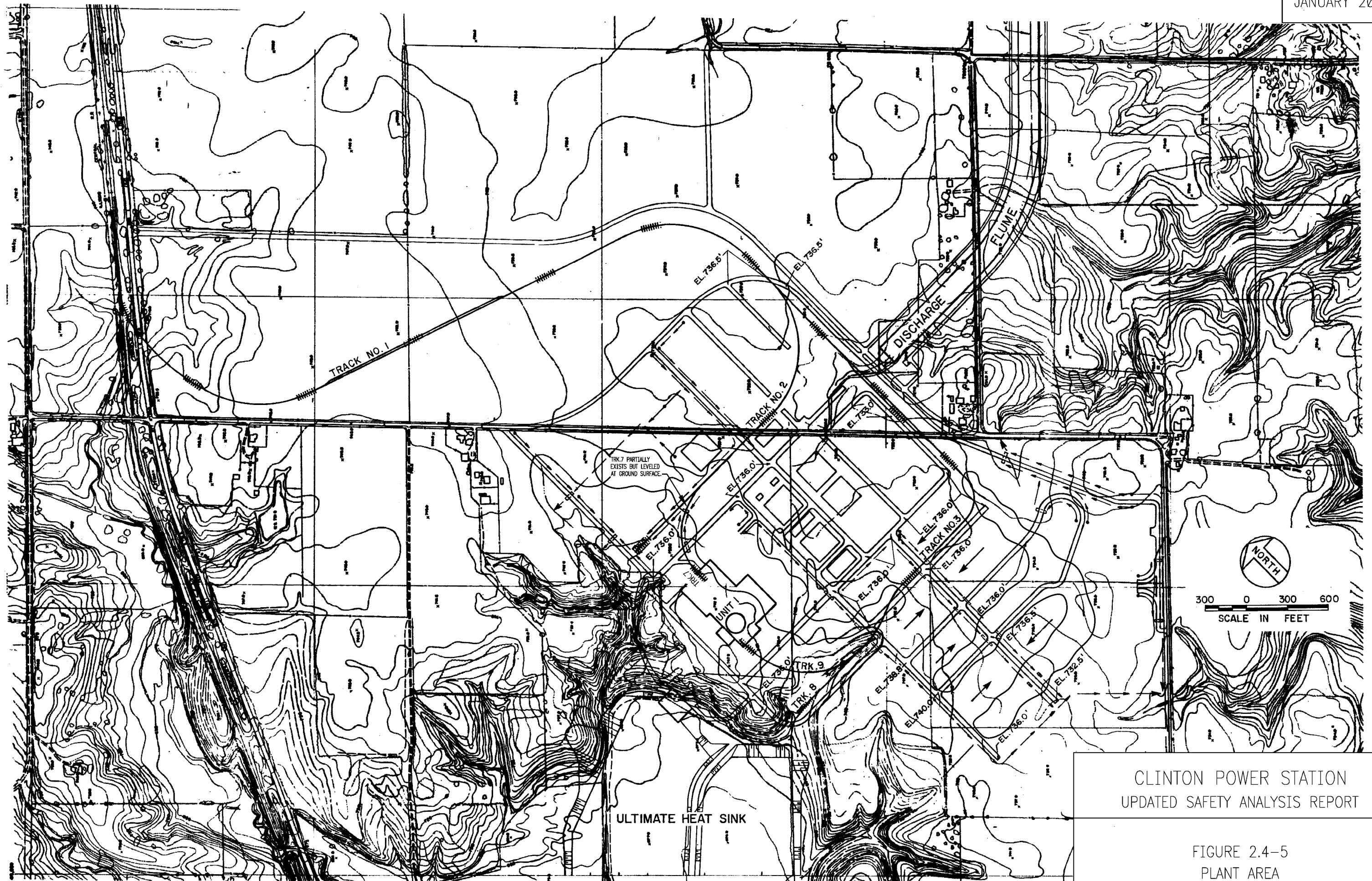






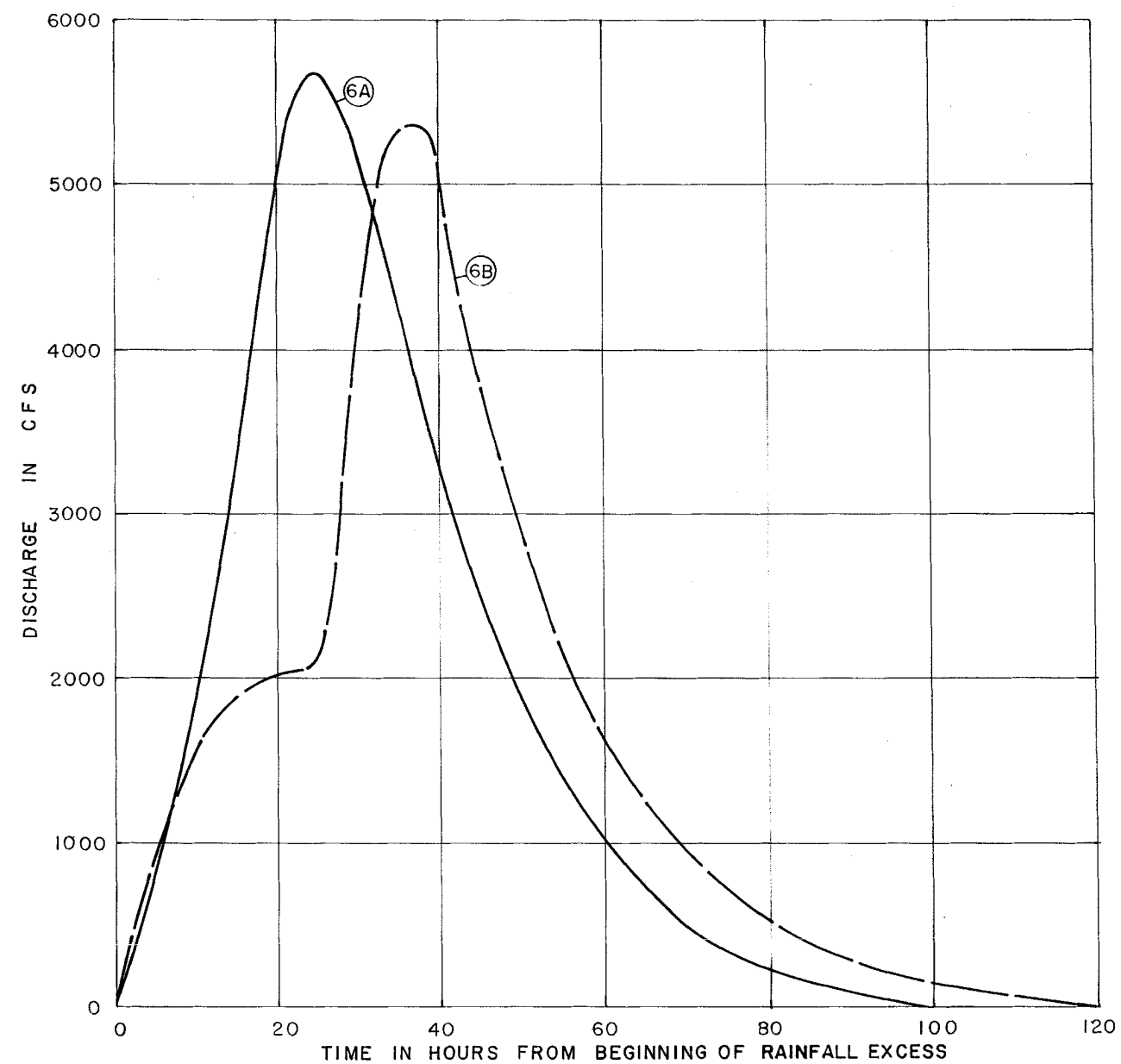
CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-4
SUMMER AND WINTER PMP INTENSITY
DURATION CURVES



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-5
PLANT AREA

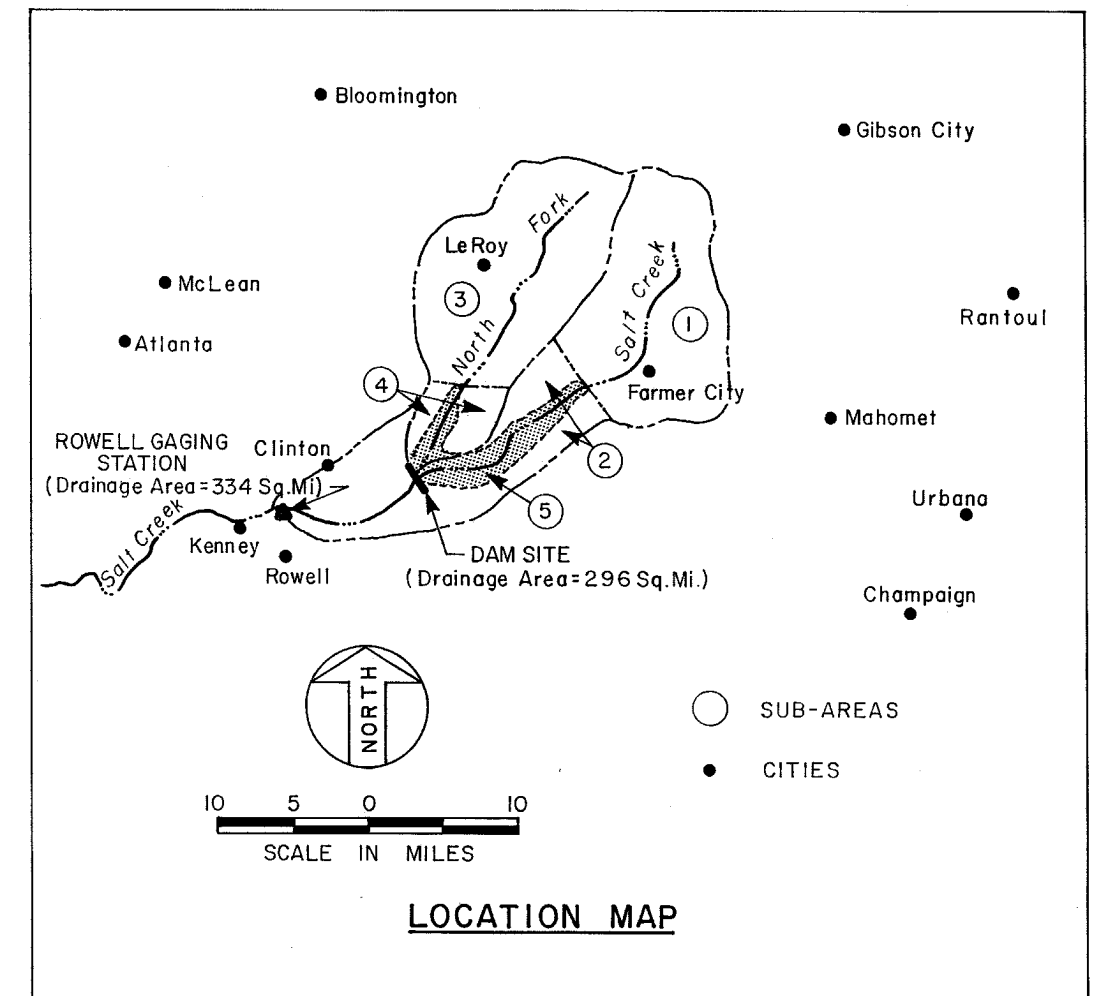
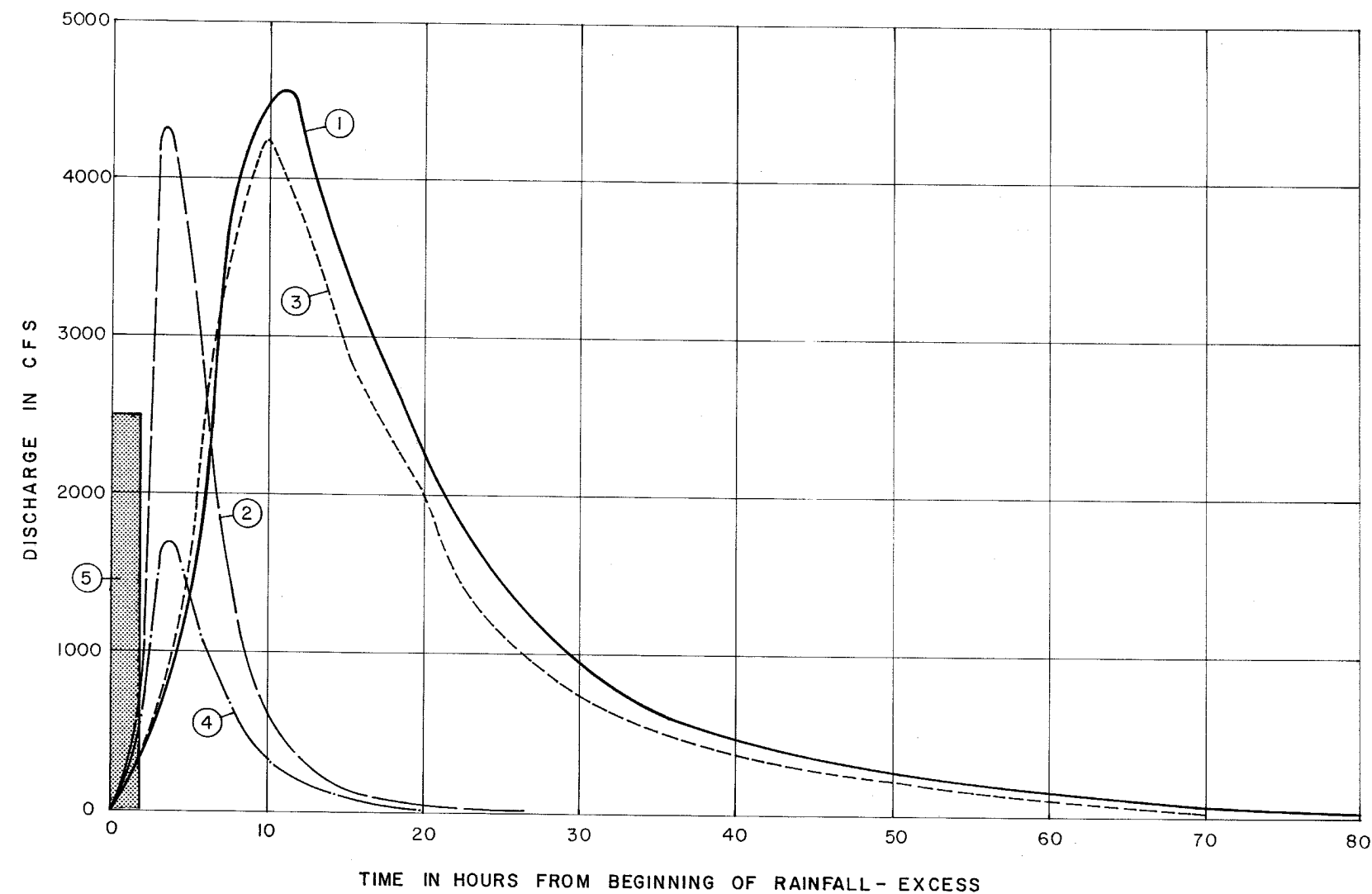


UNIT GRAPH DESIGNATION	UNIT DURATION HOURS	LOCATION	DRAINAGE AREA SQ. MILES	REMARKS
(6A)	2	DAM SITE	296	DERIVED FROM SYNTHETIC METHOD IN "UNIT HYDROGRAPHS IN ILLINOIS" BY W. D. MITCHELL
(6B)	2	DAM SITE	296	DERIVED FROM ROWELL STATION UNIT HYDROGRAPH ADJUSTED BY AREA RATIO OF 296/334 (FROM "UNIT HYDROGRAPHS IN ILLINOIS" BY W. D. MITCHELL

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-6

UNIT HYDROGRAPHS FOR SALT CREEK AT DAM
SITE UNDER NATURAL RIVER CONDITIONS

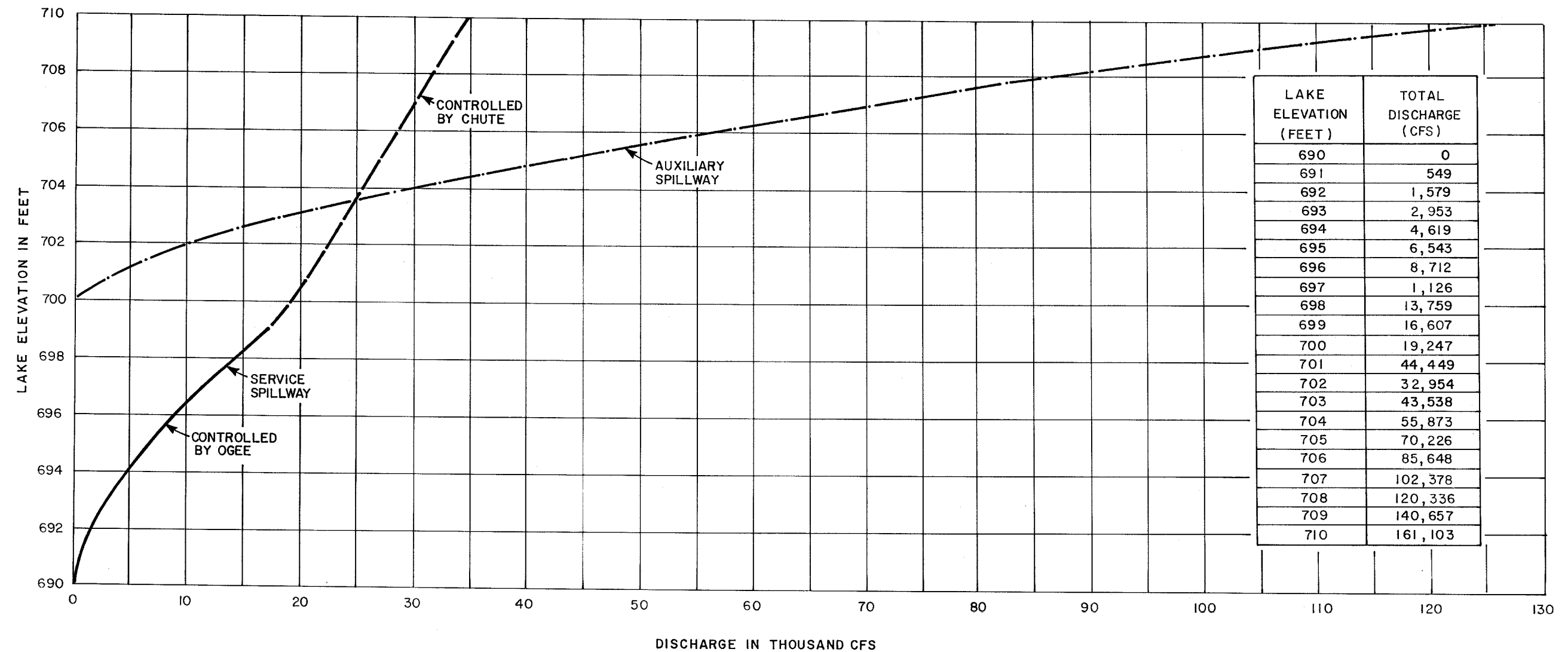


UNIT GRAPH NO.	UNIT DURATION HOURS	AREA REPRESENTED		REMARKS
		IDENTIFICATION	SQ. MI.	
①	2	SUB-AREA ①	126	BASIN ABOVE HEAD OF SALT CREEK FINGER
②	2	SUB-AREA ②	36	LOCAL AREA OF SALT CREEK FINGER
③	2	SUB-AREA ③	111	BASIN ABOVE HEAD OF NORTH FORK FINGER
④	2	SUB-AREA ④	15	LOCAL AREA OF NORTH FORK FINGER
⑤	2	SUB-AREA ⑤	8	RESERVOIR SURFACE AREA

**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

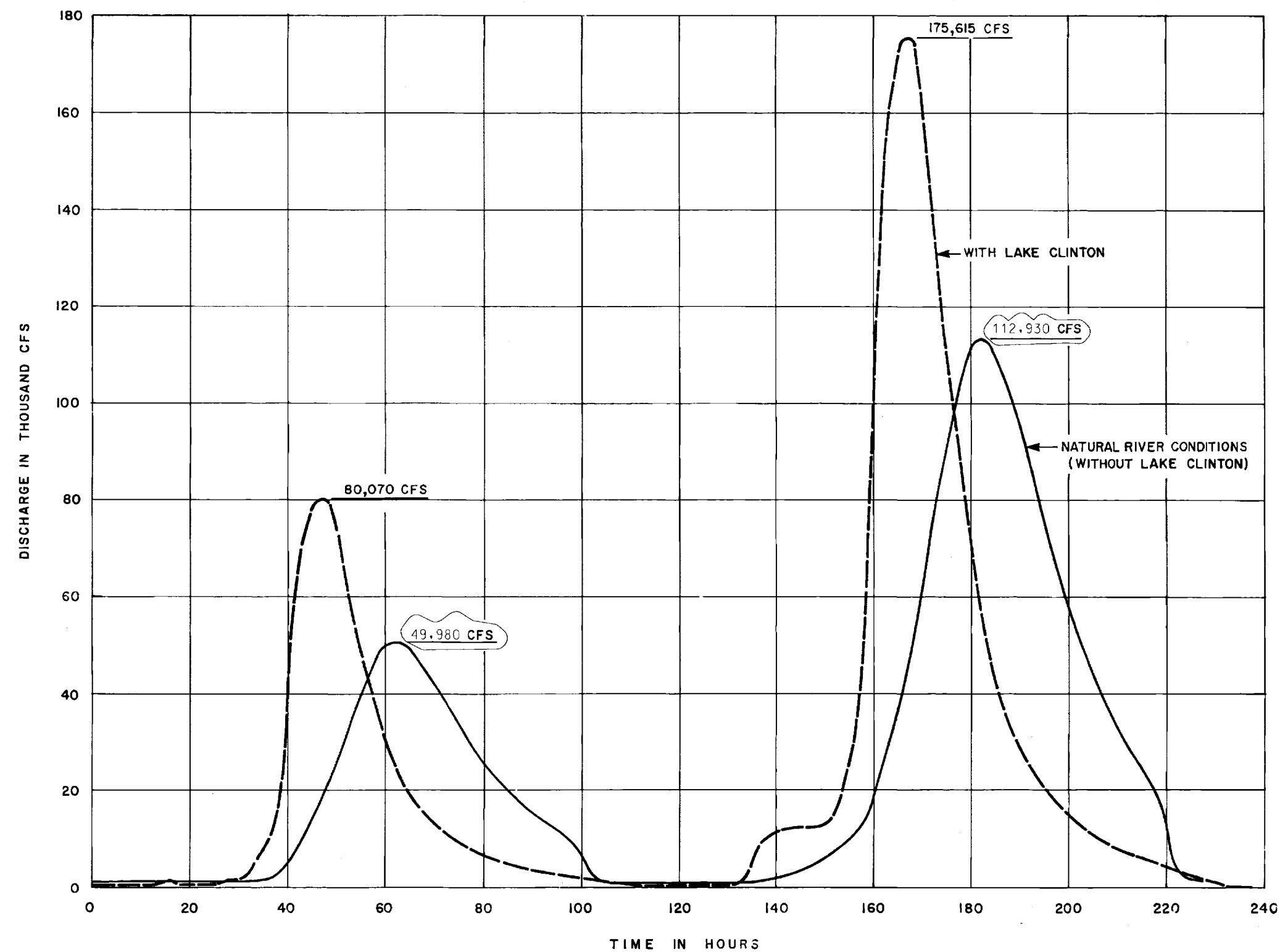
FIGURE 2.4-7

UNIT HYDROGRAPHS FOR SUB-BASIN AREAS



CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

FIGURE 2.4-8
SPILLWAY RATING CURVES

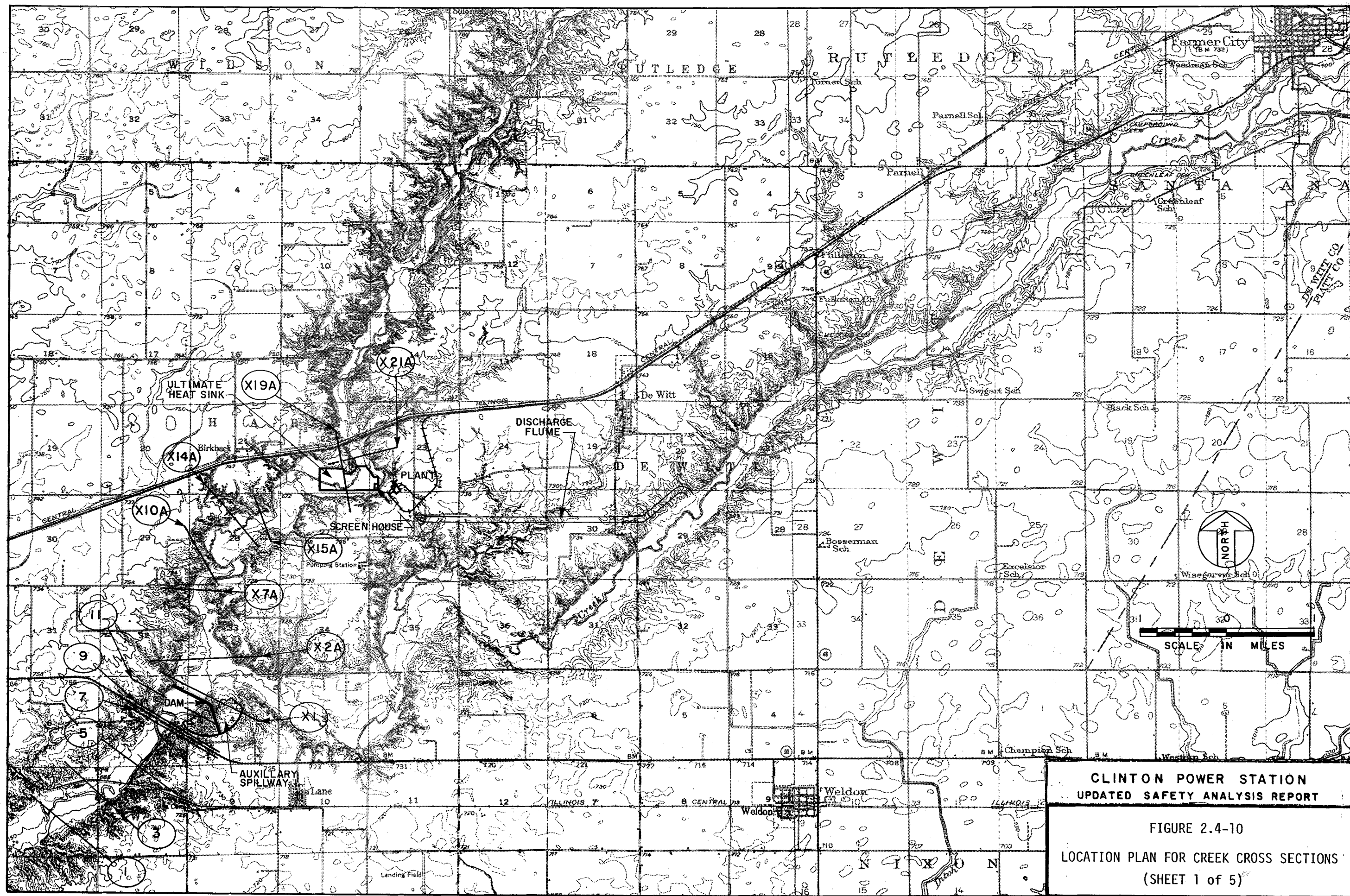


DRAINAGE AREA = 296 SQ. MILES

CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT

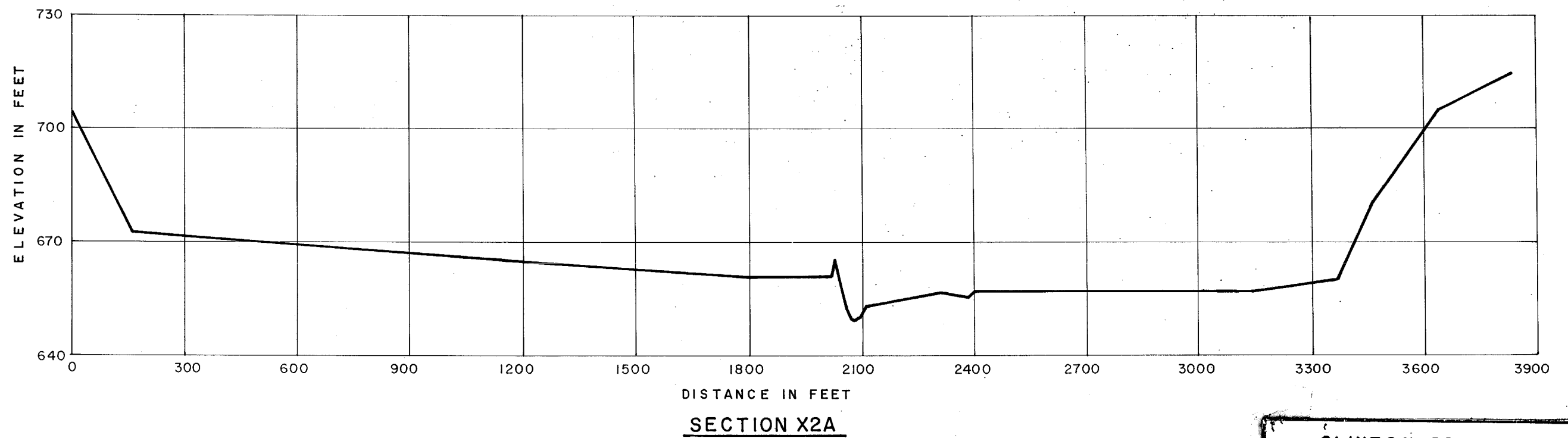
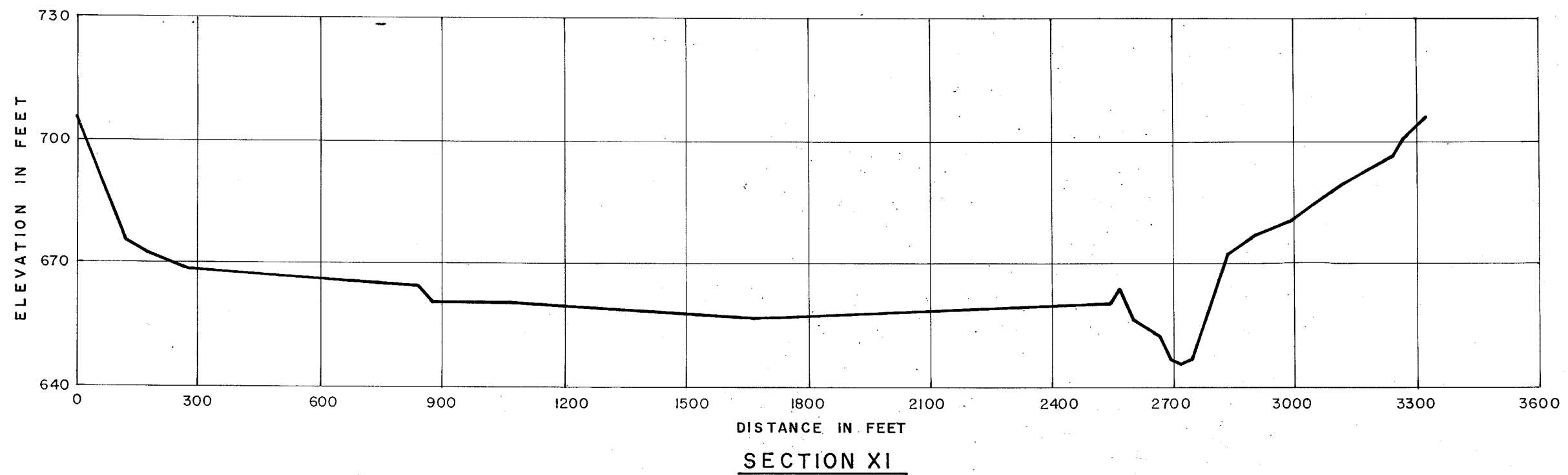
FIGURE 2.4-9

PROBABLE MAXIMUM FLOOD INFLOW HYDROGRAPHS



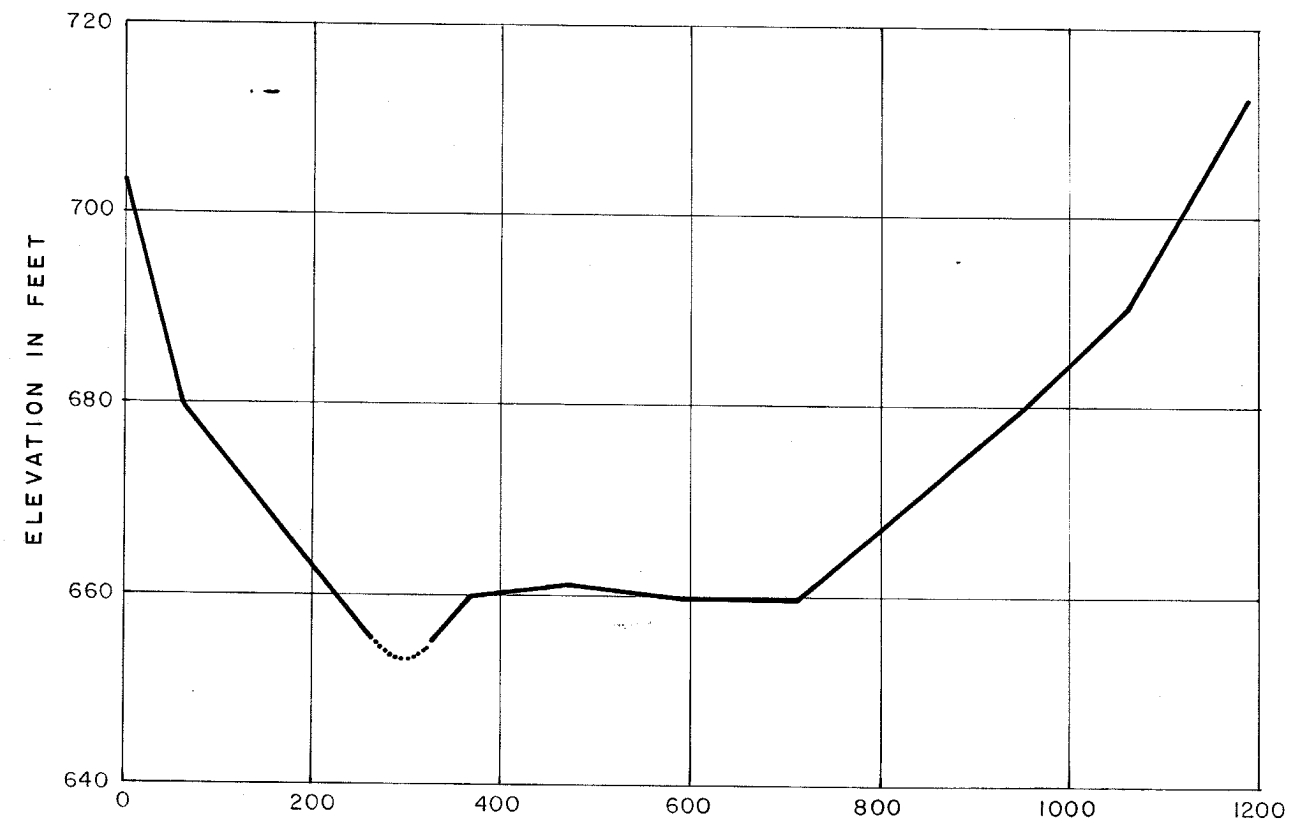
**CLINTON POWER STATION
UPDATED SAFETY ANALYSIS REPORT**

**FIGURE 2.4-10
LOCATION PLAN FOR CREEK CROSS SECTIONS
(SHEET 1 of 5)**

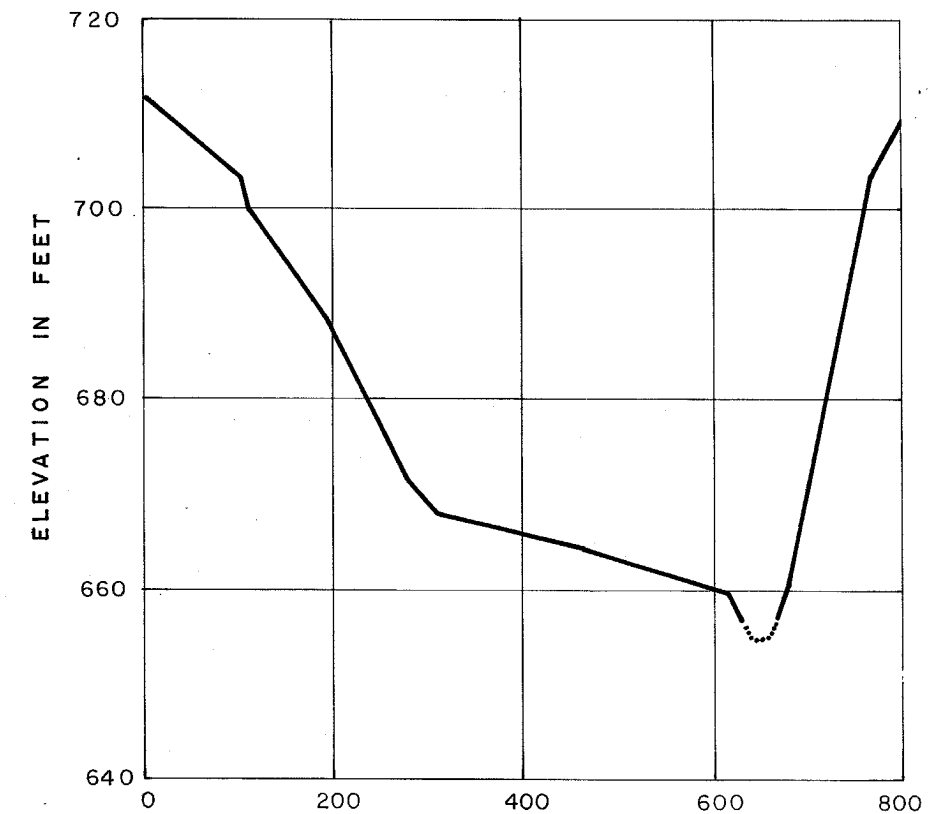


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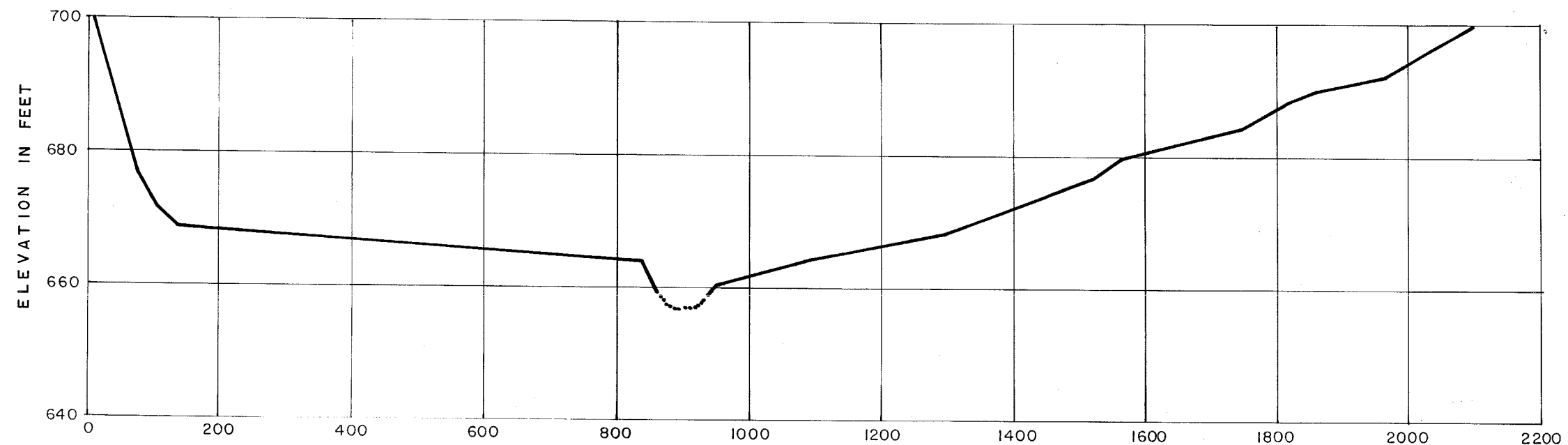
FIGURE 2.4-10
LOCATION PLAN FOR CREEK CROSS SECTIONS
(SHEET 2 of 5)



SECTION X7A



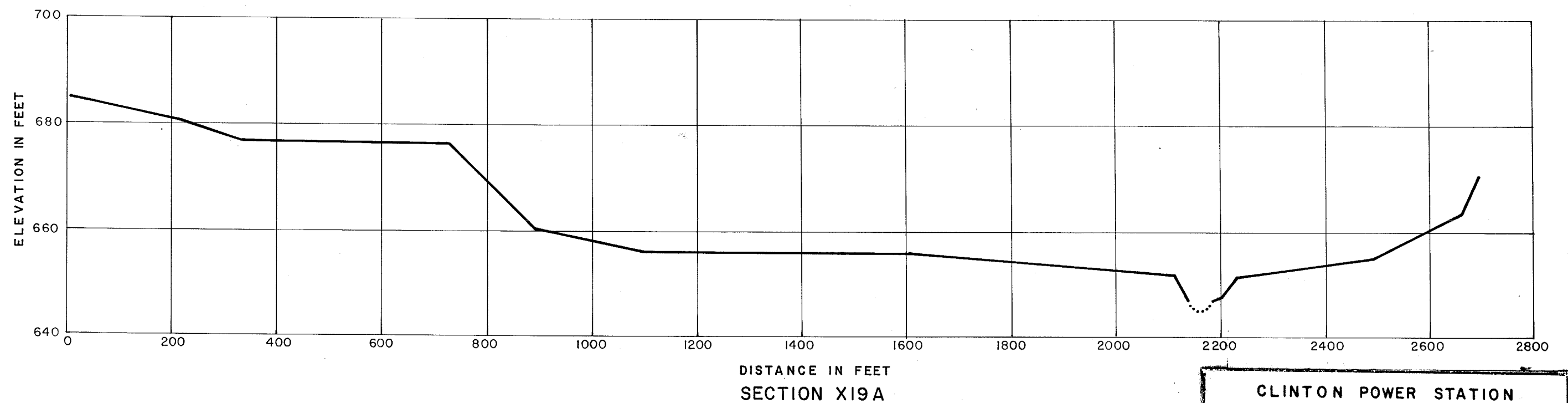
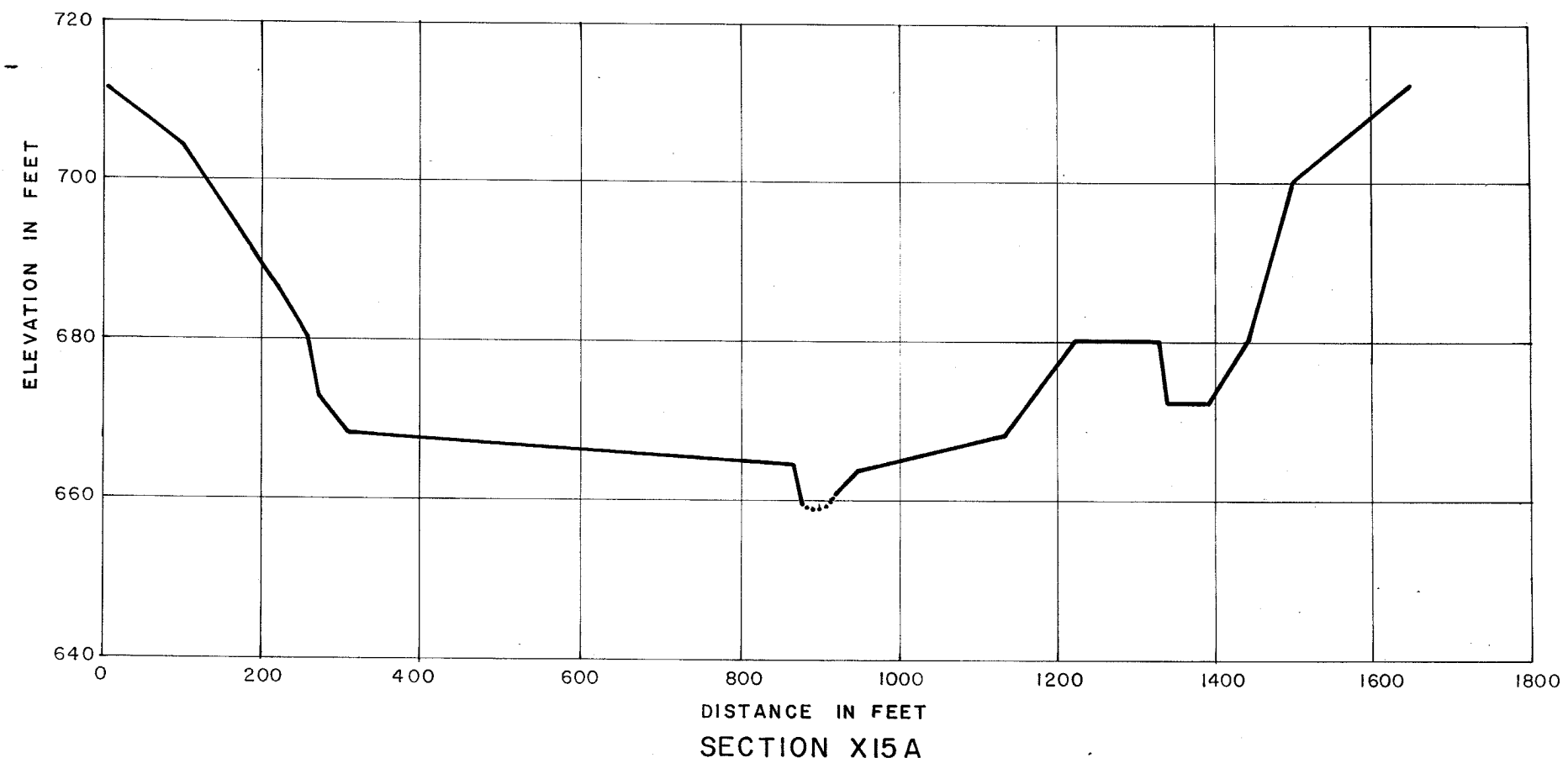
SECTION X10A



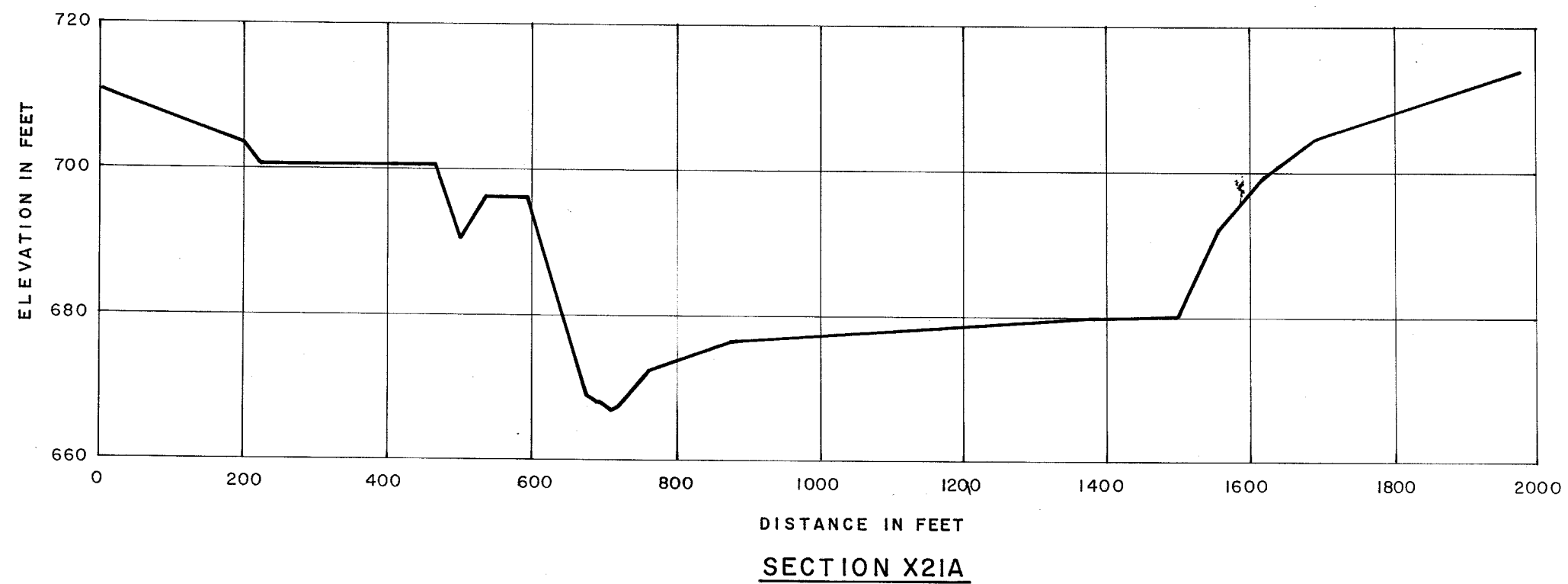
SECTION X14A

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FIGURE 2.4-10
LOCATION PLAN FOR CREEK CROSS SECTIONS
(SHEET 3 of 5)



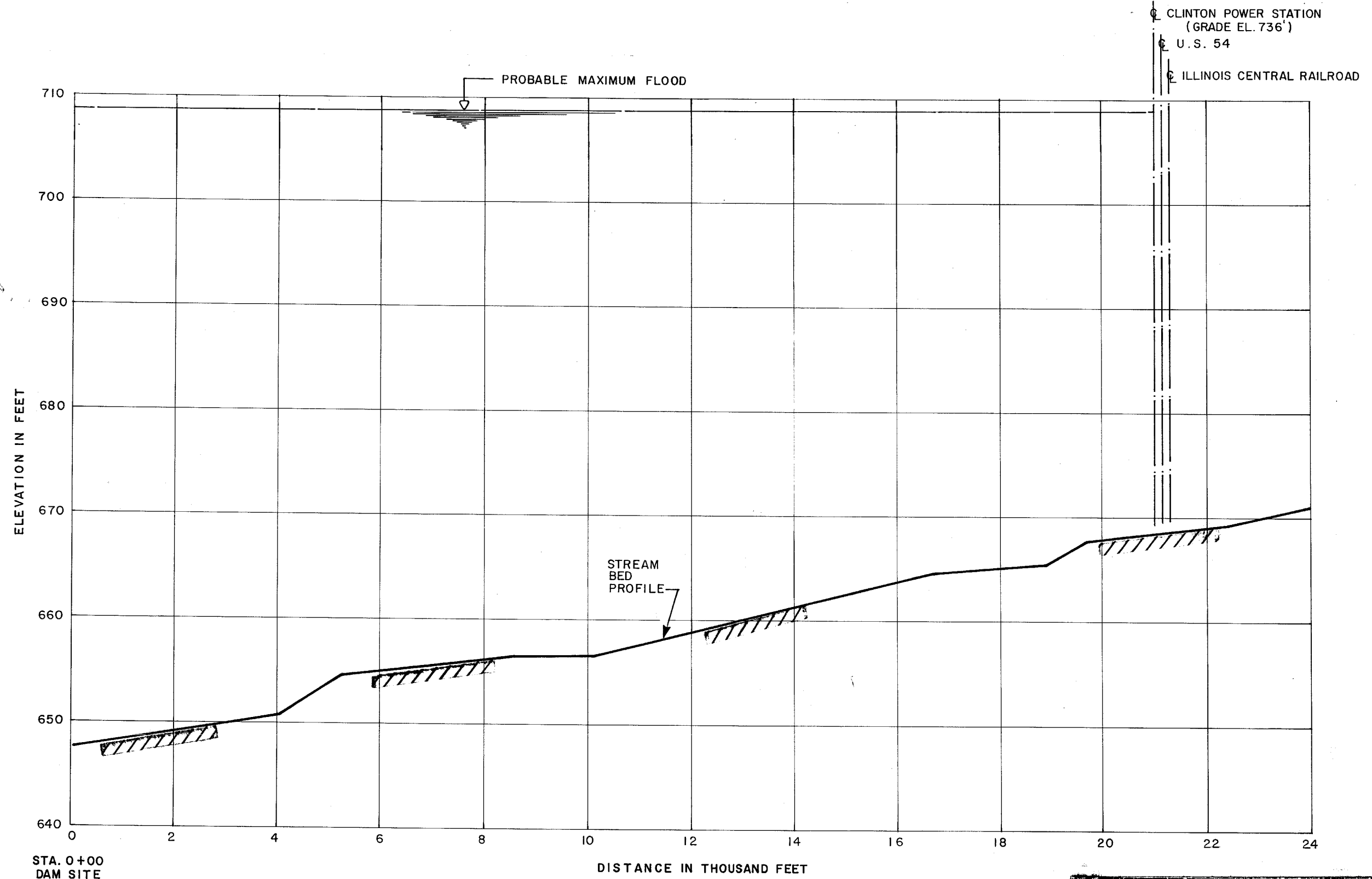
CROSS SECTION LOOKING UPSTREAM.



CROSS SECTION LOOKING UPSTREAM.

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FIGURE 2.4-10
LOCATION PLAN FOR CREEK CROSS SECTIONS
(SHEET 5 of 5)



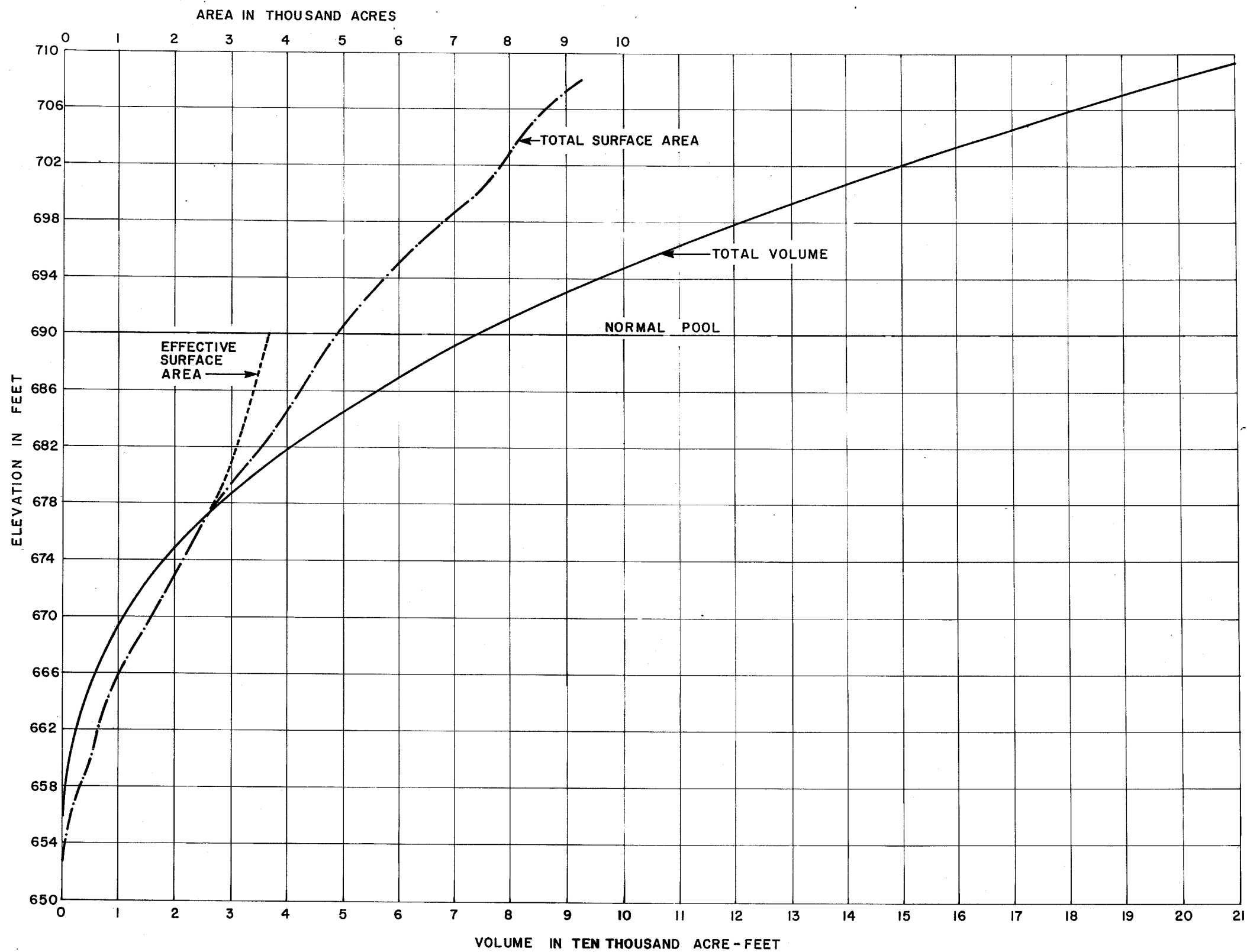
STA. 0+00
DAM SITE

DISTANCE IN THOUSAND FEET

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FIGURE 2.4-11

WATER SURFACE PROFILE - NORTH FORK

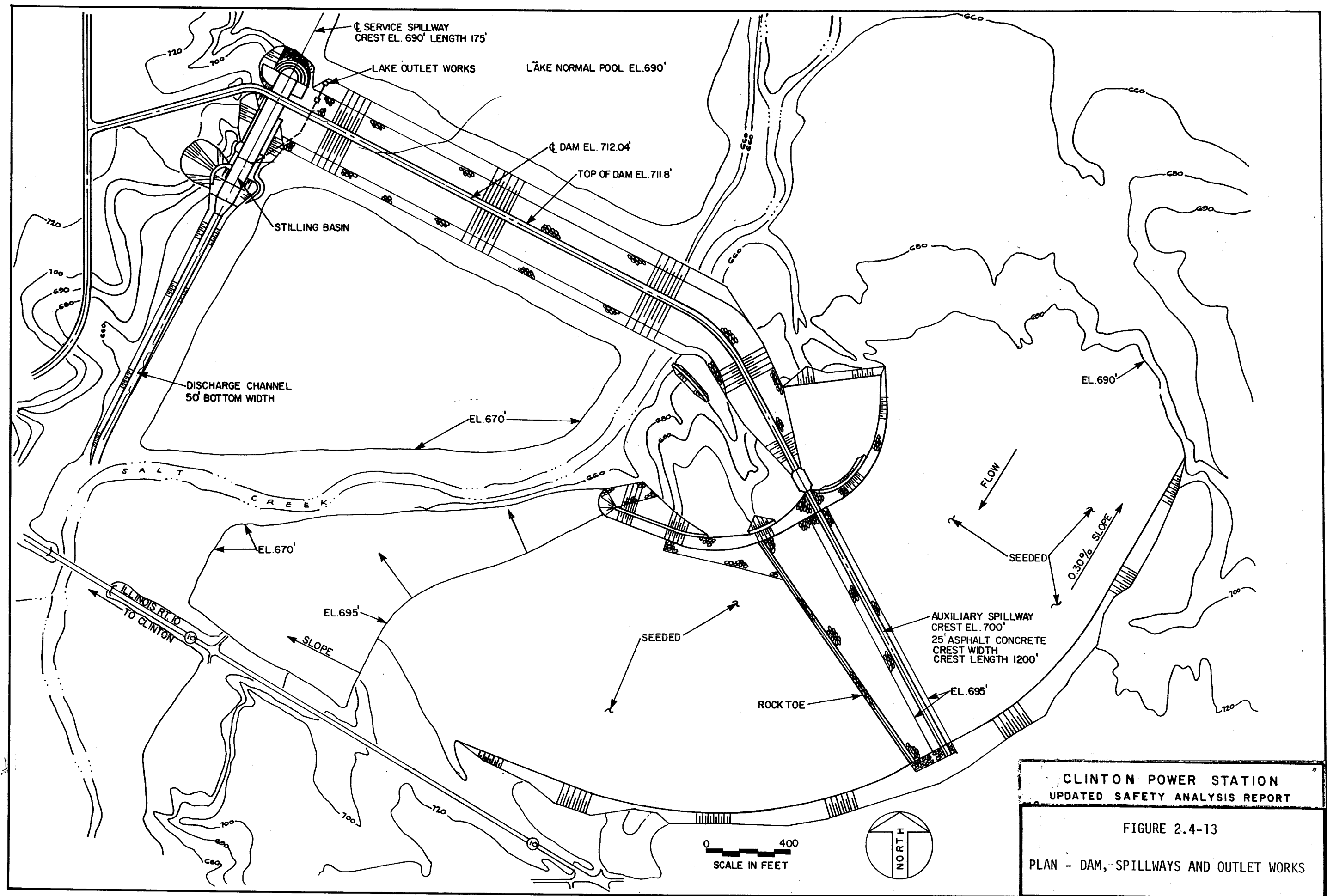


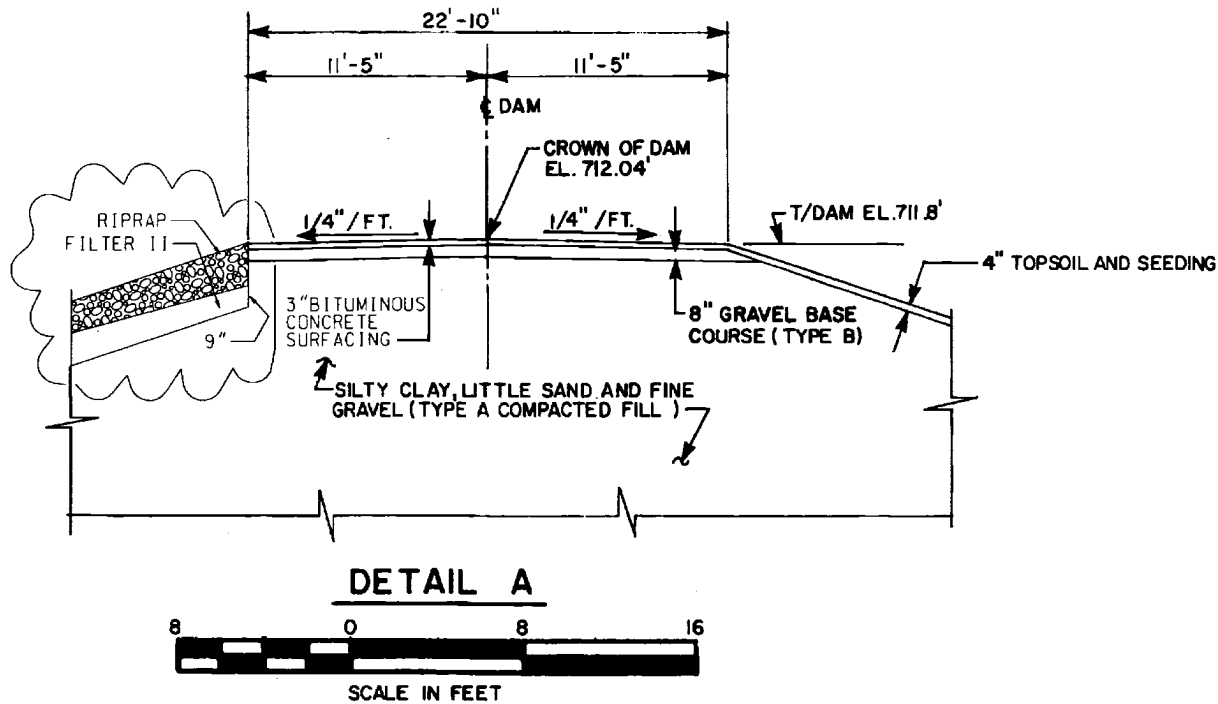
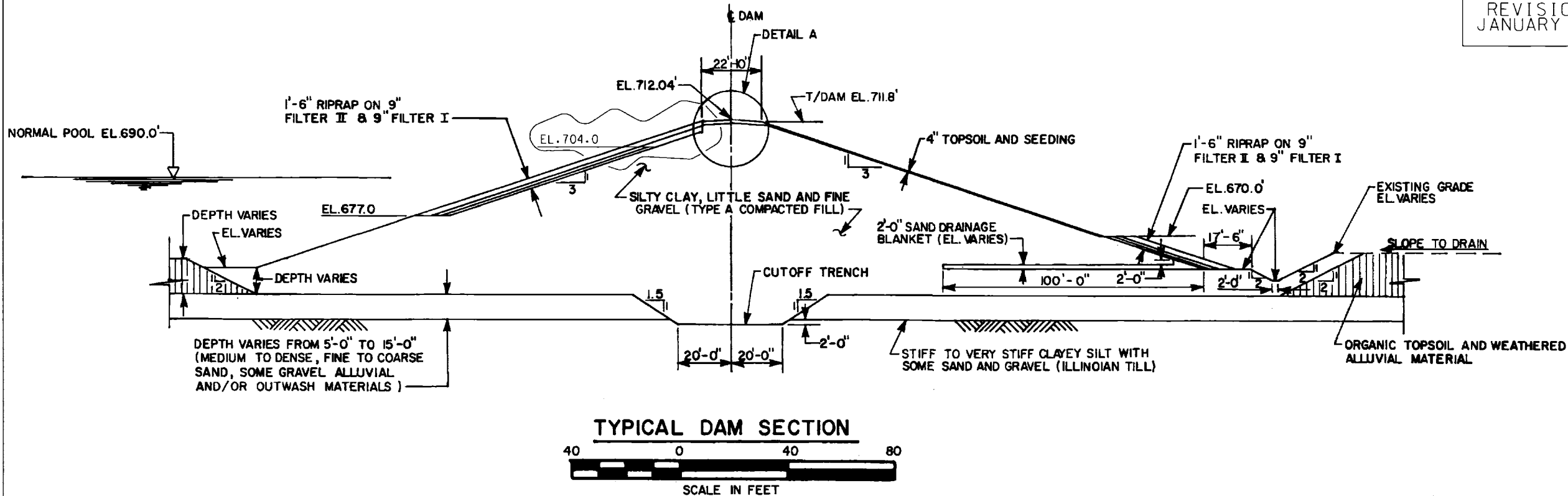
ELEVATION IN FEET	AREA IN ACRES	CAPACITY IN ACRE-FOOT
680	3,100	33,900
682	3,550	40,600
684	3,930	48,000
686	4,250	56,000
688	4,520	64,800
690	4,895	74,200
692	5,210	83,600
694	5,700	95,000
696	6,140	106,300
698	6,800	120,000
700	7,380	133,300
702	7,800	149,000
704	8,180	164,300
706	8,600	182,000
708	9,260	199,200

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FIGURE 2.4-12

LAKE AREA - CAPACITY CURVES

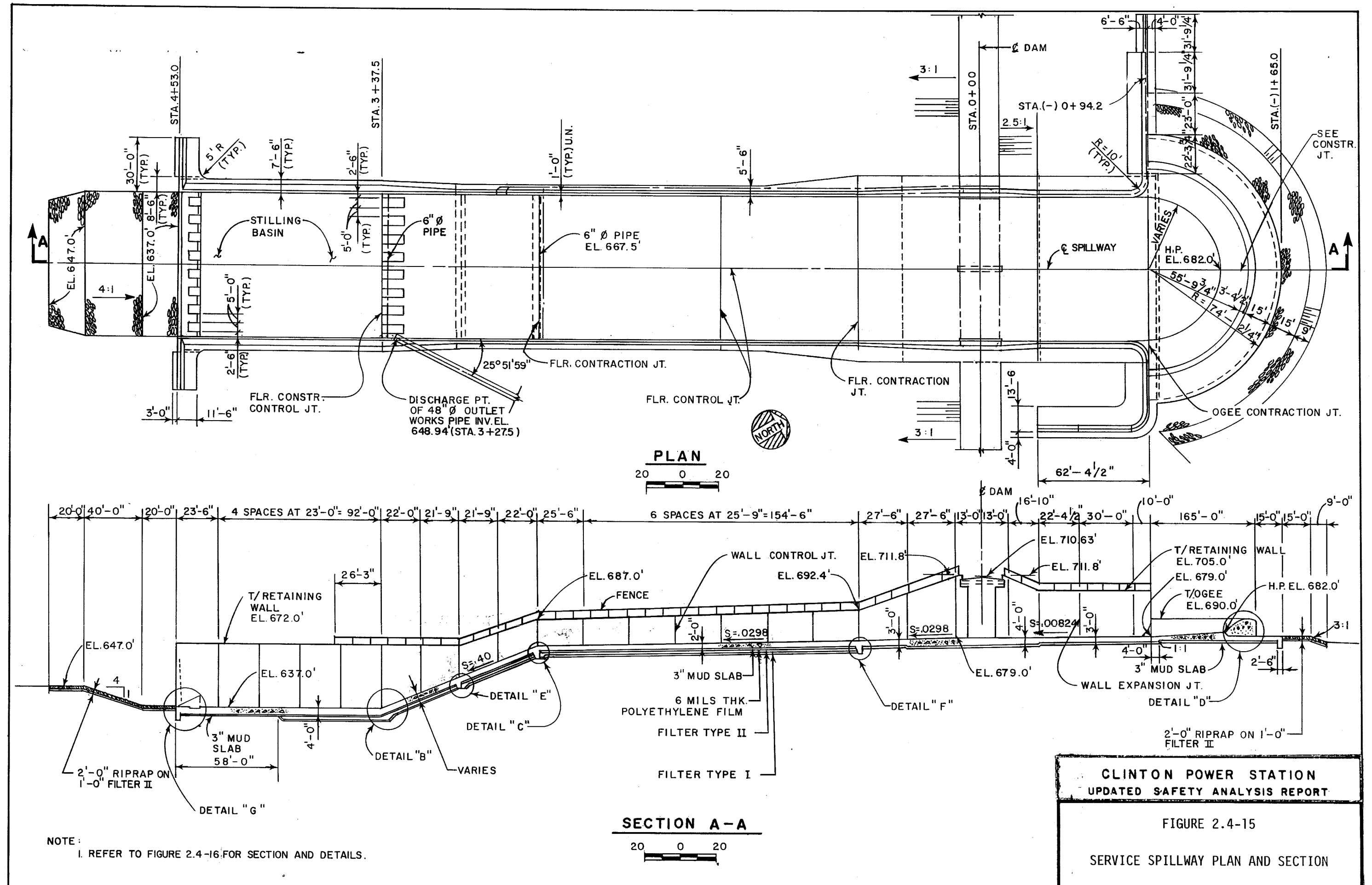


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FIGURE 2.4-14

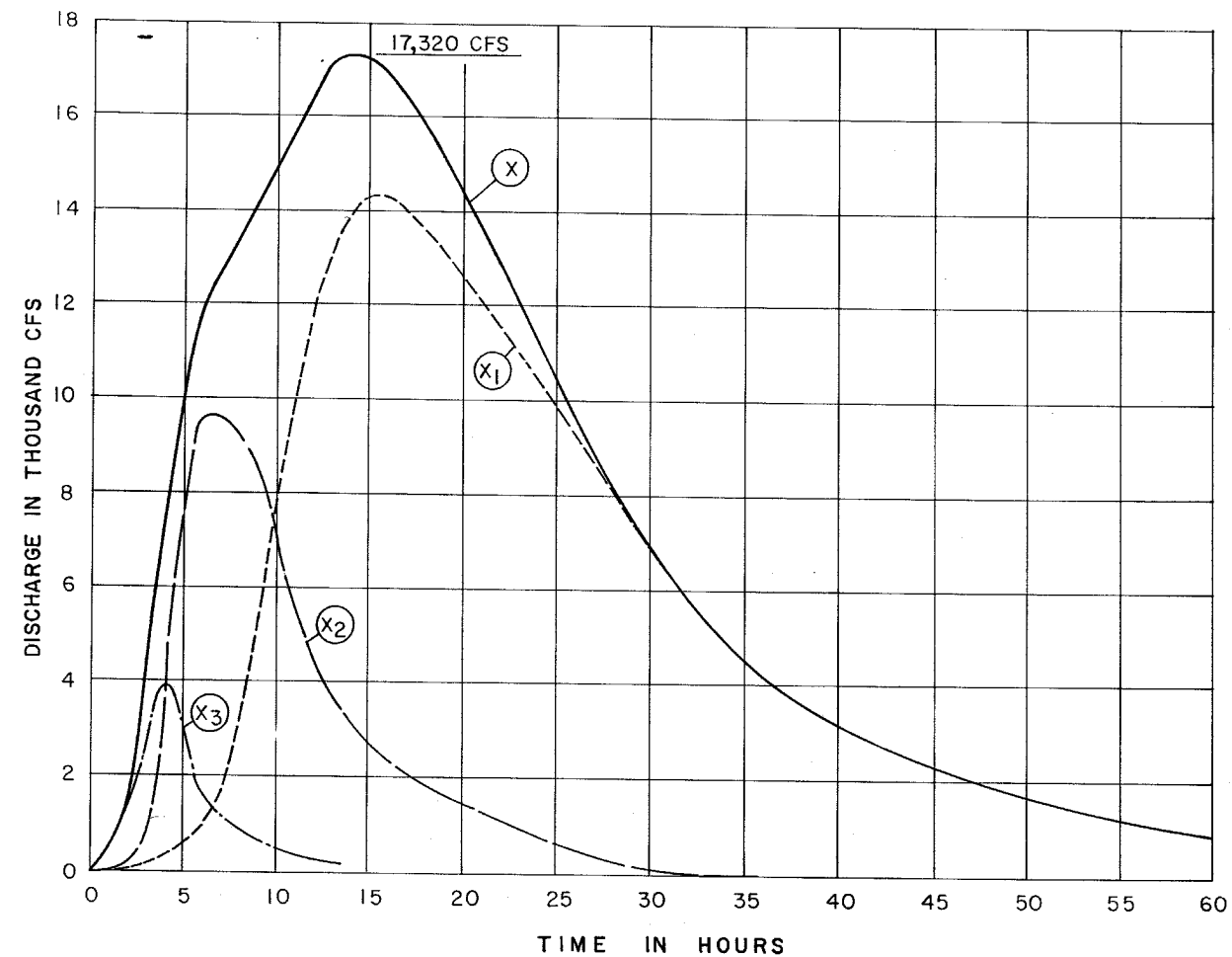
TYPICAL DAM CROSS SECTION



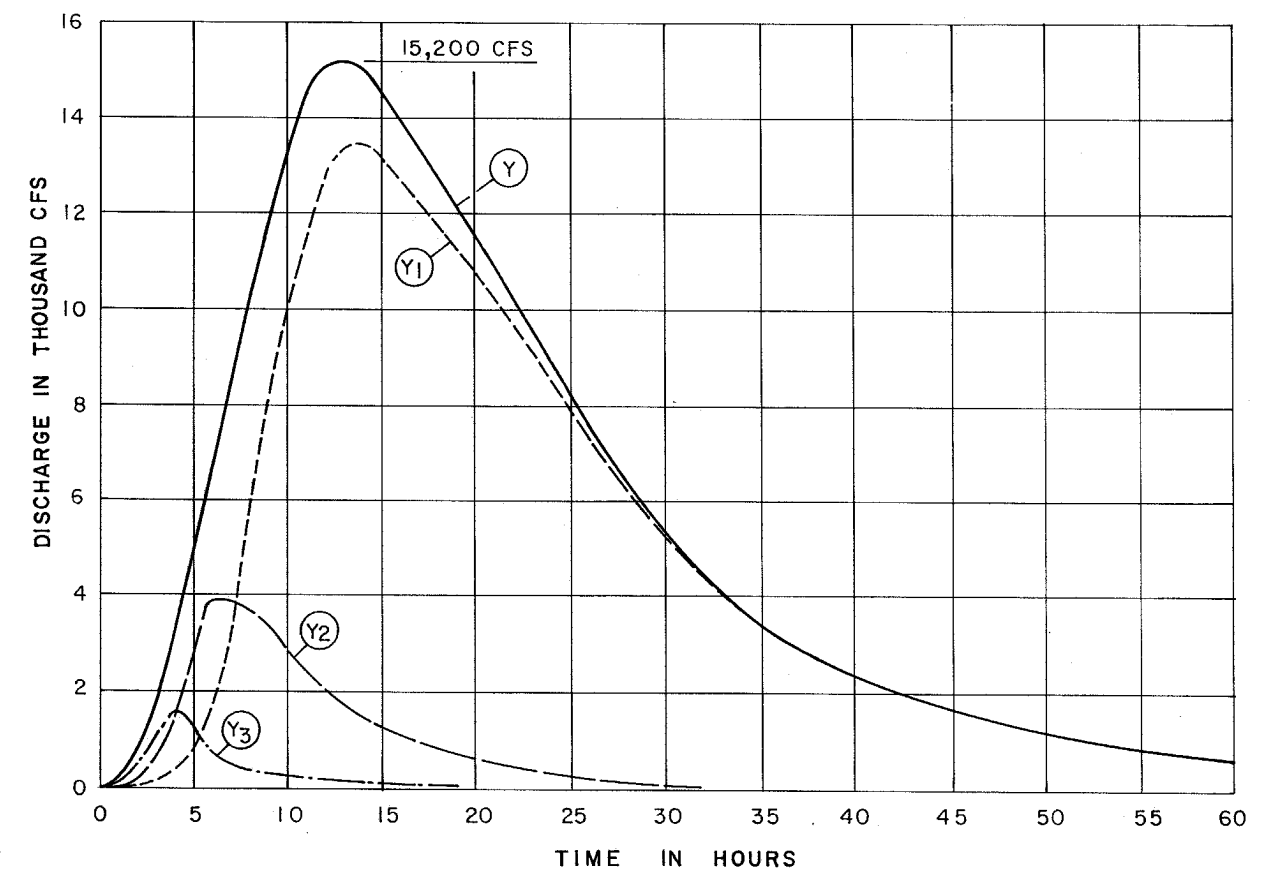
SECTION H-H

FIGURE 2.4-16

SERVICE SPILLWAY SECTION AND DETAILS



100-YEAR FLOOD HYDROGRAPHS OF
SALT CREEK COMPONENT AREAS



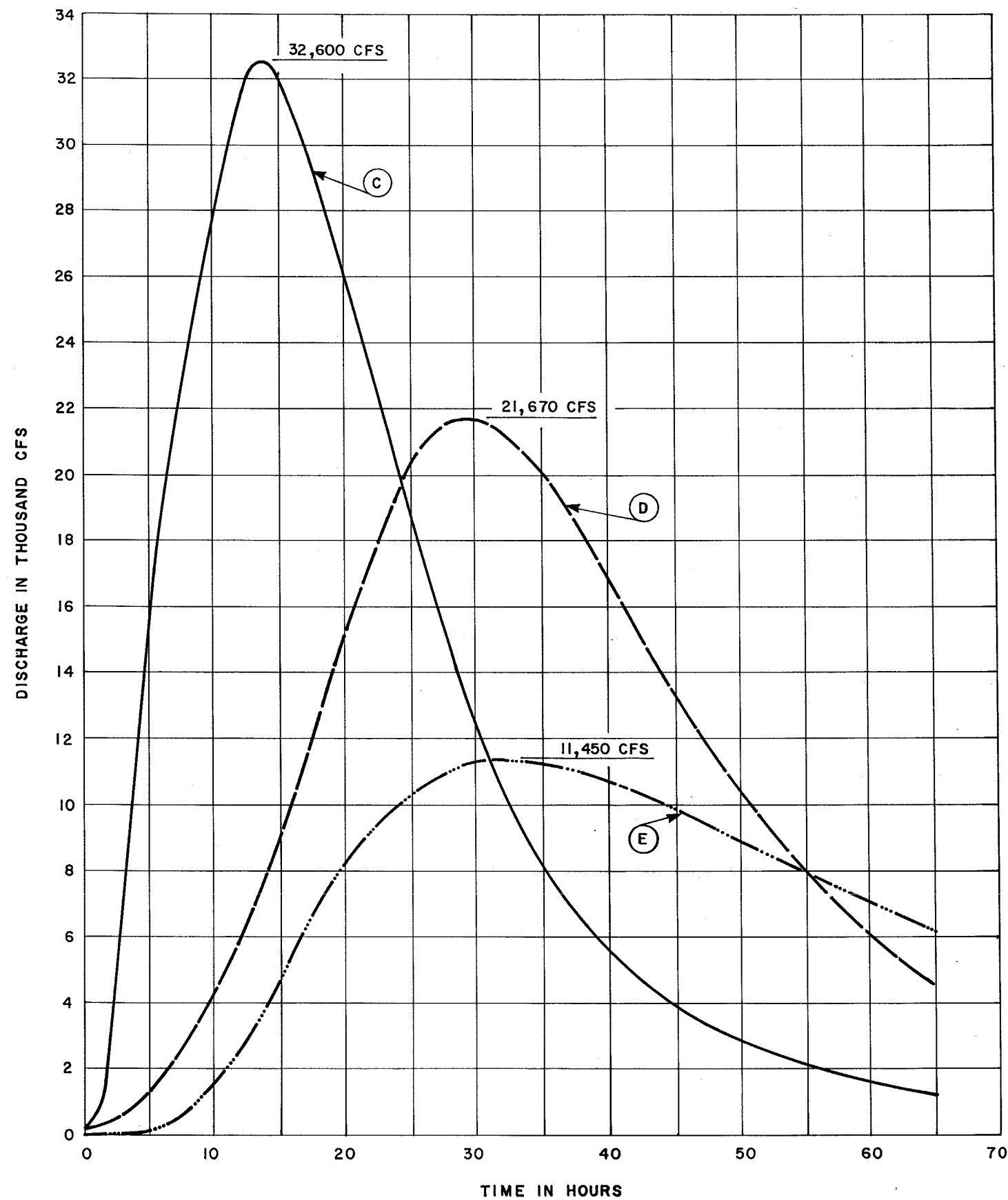
100-YEAR FLOOD HYDROGRAPHS OF
NORTH FORK COMPONENT AREAS

HYDROGRAPH DESIGNATION	AREA REPRESENTED		UNIT HYDROGRAPH APPLIED	REMARKS
	SUB-AREA	SQ. MILES		
(X)	1,2,5(PORION)	167.5	1,2,5(PORION)	REPRESENTS TOTAL INFLOW INTO FULL RESERVOIR FROM SALT CREEK COMPONENT AREA
(X ₁)	1	126.0	1	REPRESENTS INFLOW AT SALT CREEK HEAD OF RESERVOIR (LAG BY 1-HOUR)
(X ₂)	2	36.0	2	REPRESENTS INFLOW INTO RESERVOIR FROM SALT CREEK LOCAL AREA
(X ₃)	5 (PORION)	5.5	5(PORION)	REPRESENTS INFLOW FROM DIRECT PRECIPITATION ON SALT CREEK PORTION OF RESERVOIR AREA
(Y)	3,4,5(PORION)	128.5	3,4,5(PORION)	REPRESENTS TOTAL INFLOW INTO FULL RESERVOIR FROM NORTH FORK COMPONENT AREA
(Y ₁)	3	111.0	3	REPRESENTS INFLOW AT NORTH FORK HEAD OF RESERVOIR
(Y ₂)	4	15.0	4	REPRESENTS INFLOW INTO RESERVOIR FROM NORTH FORK LOCAL AREA
(Y ₃)	5 (PORION)	2.5	5(PORION)	REPRESENTS INFLOW FROM DIRECT PRECIPITATION ON NORTH FORK PORTION OF RESERVOIR AREA

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FIGURE 2.4-17

100-YEAR FLOOD HYDROGRAPHS OF SALT CREEK
AND NORTH FORK COMPONENT AREAS



HYDROGRAPH DESIGNATION	AREA IN SQ. MILES	UNIT HYDROGRAPH APPLIED	REMARKS
(C)	296	1,2,3,4 & 5	REPRESENTS TOTAL 100-YEAR FLOOD INFLOW INTO FULL RESERVOIR
(D)	296	6 A	REPRESENTS FLOW AT DAM SITE UNDER NATURAL RIVER CONDITIONS
(E)			OUTFLOW HYDROGRAPH

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FIGURE 2.4-18

100-YEAR FLOOD HYDROGRAPHS OF LAKE
CLINTON AND SALT CREEK AT DAM SITE