

DRE 279

Technical Publication 89-4

**GROUND WATER RESOURCE ASSESSMENT
OF EASTERN PALM BEACH COUNTY, FLORIDA**

**PART II
PLATES AND OVERSIZED APPENDICES**

by

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South Florida Water Management District
West Palm Beach, Florida**

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UNIT	PERIOD	THICKNESS (FT)	LITHOLOGY		CHARACTERISTICS
PAMLICO FM. (Qp)	Late Pleistocene	0 - 50	Quartz sand with shelly or silty intervals.		SURFICIAL AQUIFER SYSTEM
ANASTASIA FM. (Qa)	Pleistocene	0 - 200+	Ranges from sand and shell to well-cemented biogenic limestone.		BISCAYNE AQUIFER Extremely Permeable Solutioned Limestone
FORT THOMPSON FM. (Qa)		0 - 40+	Ranges from shelly marl to biogenic limestone.		Unconfined aquifer Permeability ranges over 3 orders of magnitude. May be semiconfined locally.
CALOOSA-HATCHEE FM. (Qc)	Plio-Pleistocene	0 - 50?	Shell and marl with sand and limestone intervals.		
TAMIAMI FM. (Pt)	Pliocene	0 - 100+	Reefal limestone and talus deposits. Some sandy limestone.		
HAWTHORN GROUP (Mh)	Miocene	500 - 700	Sandy silt grading into dense, green clay with beds of limestone, sandy shell or dolomite, phosphate common. Limestone and marl common in basal unit.	INTERMEDIATE CONFINING UNIT Extremely low permeability sediments	
SUWANNEE FM. (Os)	Oligocene	0 - 100?	Silty to clean, pale orange limestone. Not reliably described in study area.	Main Producing Interval in Study Area	
OCALA GROUP (Eo)	Eocene	0 - 500	Highly fossiliferous pale orange limestone. Commonly fractured and solutioned.	FLORIDAN AQUIFER SYSTEM	
AVON PARK FM. (Ea)		500 - 700	Fossiliferous, chalky to granular limestone with dolomitic beds.		
LAKE CITY FM. (El)		> 1500 ?	Chalky, fossiliferous limestone and dense brown dolomite.		Major Intra-Aquifer Confining Unit
OLDSMAR FM. (Eol)		700 - 900	Biogenic, limestone grading downward into solutioned, crystalline dolomite.		
CEDAR KEYS FM. (Pc)	Paleocene	> 500	Cavernous grey to brown dolomite with intervals of creamy white limestone. Anhydrite common in lower section.	Disposal Zone ("Boulder Zone")	
LAWSON FM. (Ki)	Late Cretaceous	?	Interbedded dolomite anhydrite and limestone.	SUBFLORIDAN CONFINING UNIT	

Plate 1 GENERALIZED HYDROGEOLOGIC COLUMN EASTERN PALM BEACH COUNTY, FLORIDA

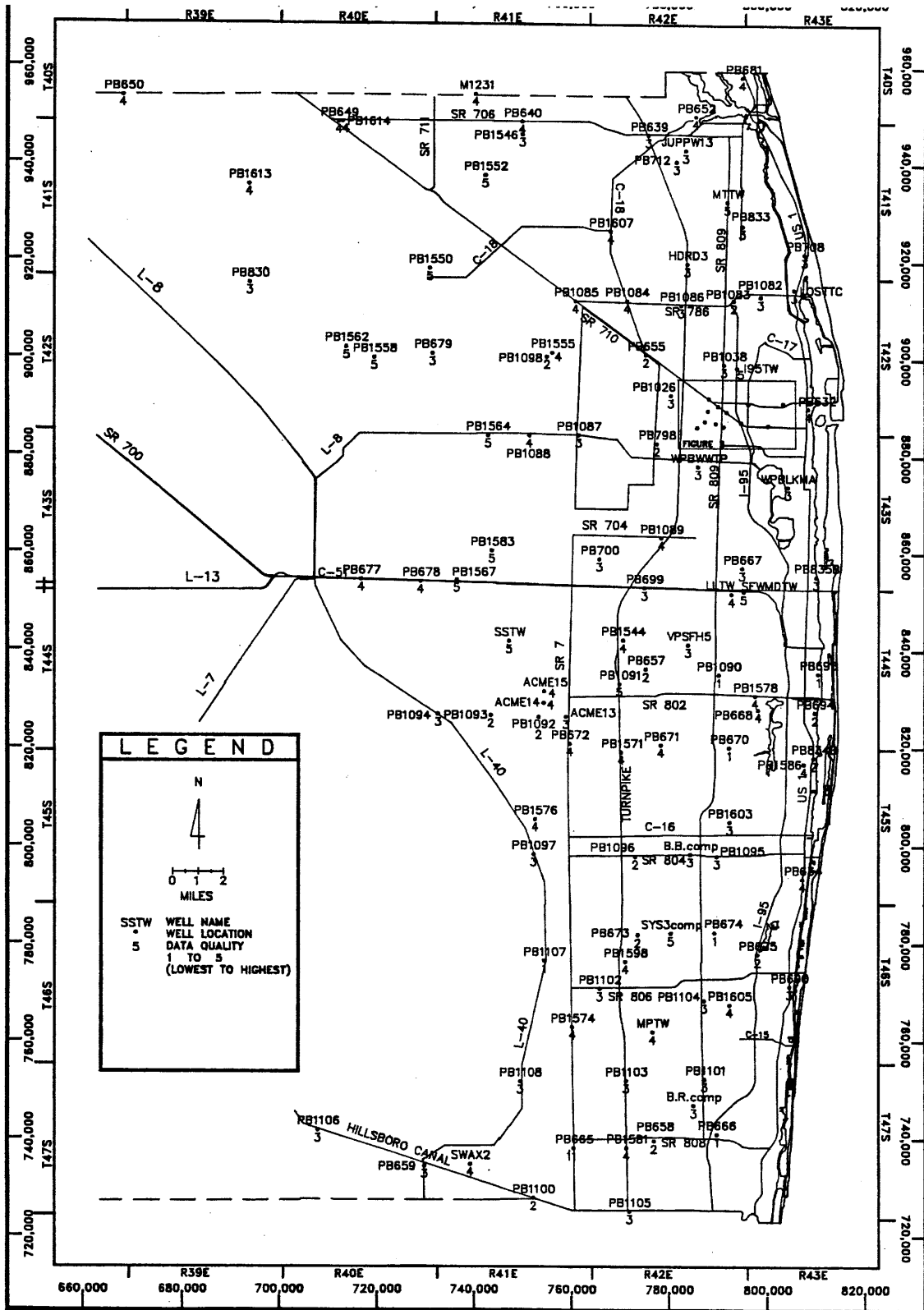
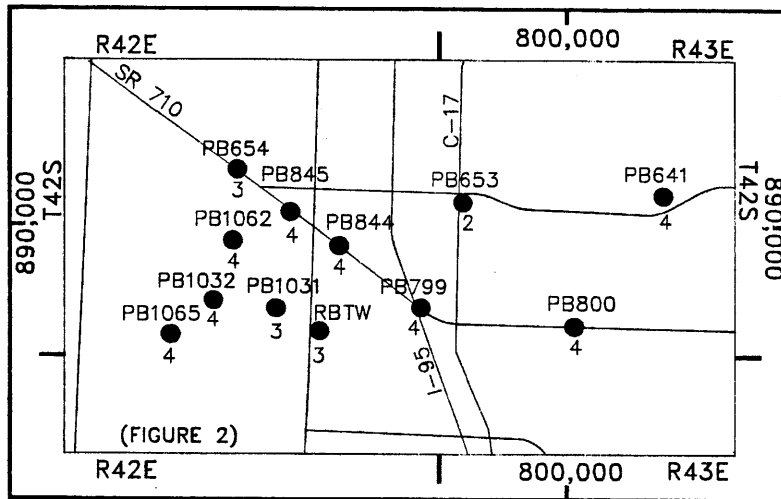


Plate 2 LOCATIONS AND DATA QUALITY RANKINGS OF HYDROGEOLOGIC DATA WELLS USED IN THE EASTERN PALM BEACH COUNTY GROUND WATER RESOURCE ASSESSMENT



EXPLANATION	
PB641	WELL NAME
●	WELL LOCATION
4	DATA QUALITY
	1 TO 5
	(LOWEST TO HIGHEST)

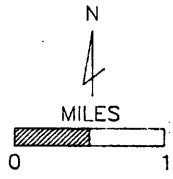


Plate 2a

LOCATIONS AND DATA QUALITY RANKINGS OF HYDROGEOLOGIC DATA WELLS USED IN THE EASTERN PALM BEACH COUNTY GROUND WATER RESOURCE ASSESSMENT

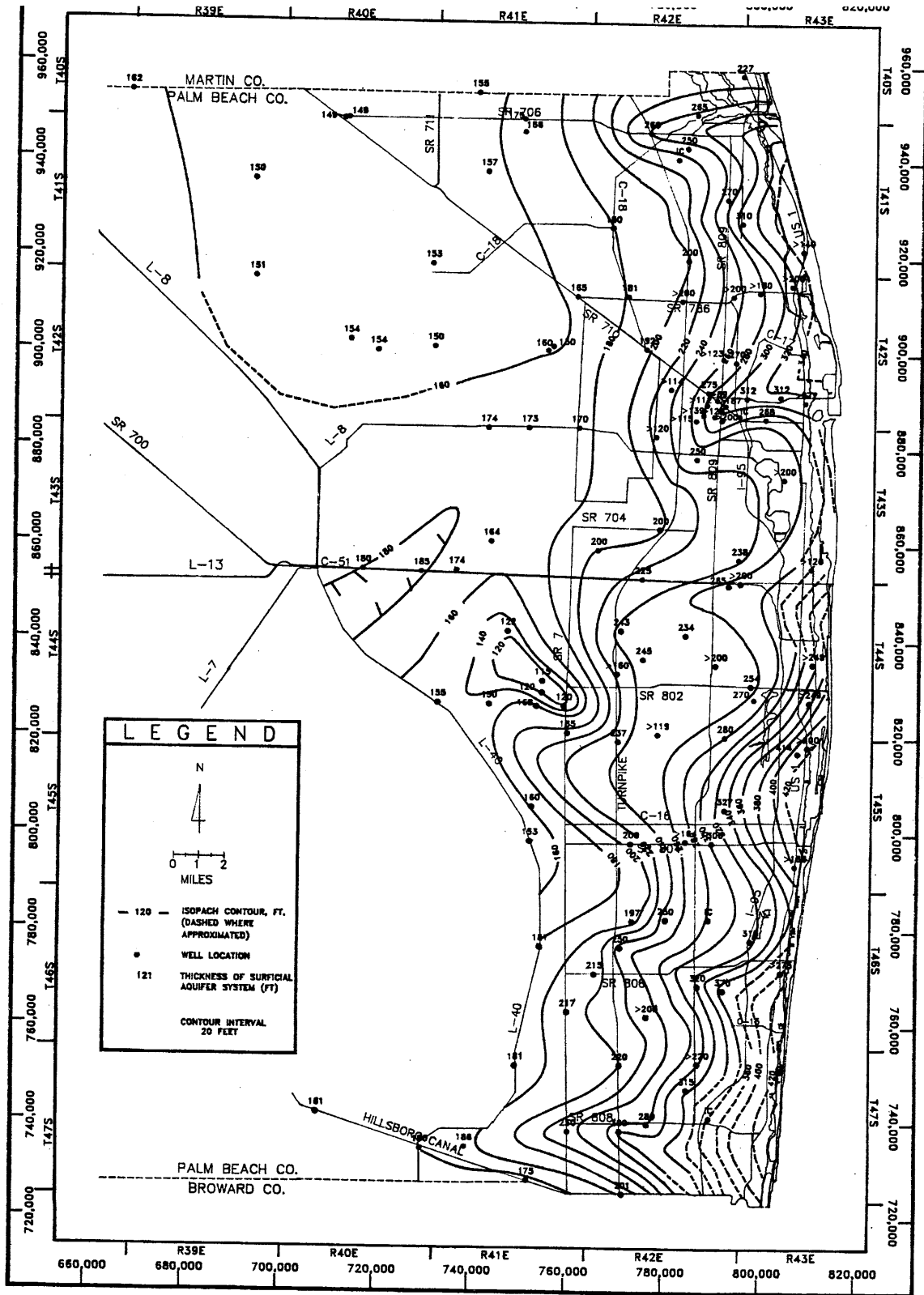


Plate 3 THICKNESS OF THE SURFICIAL AQUIFER SYSTEM IN EASTERN PALM BEACH COUNTY, FLORIDA

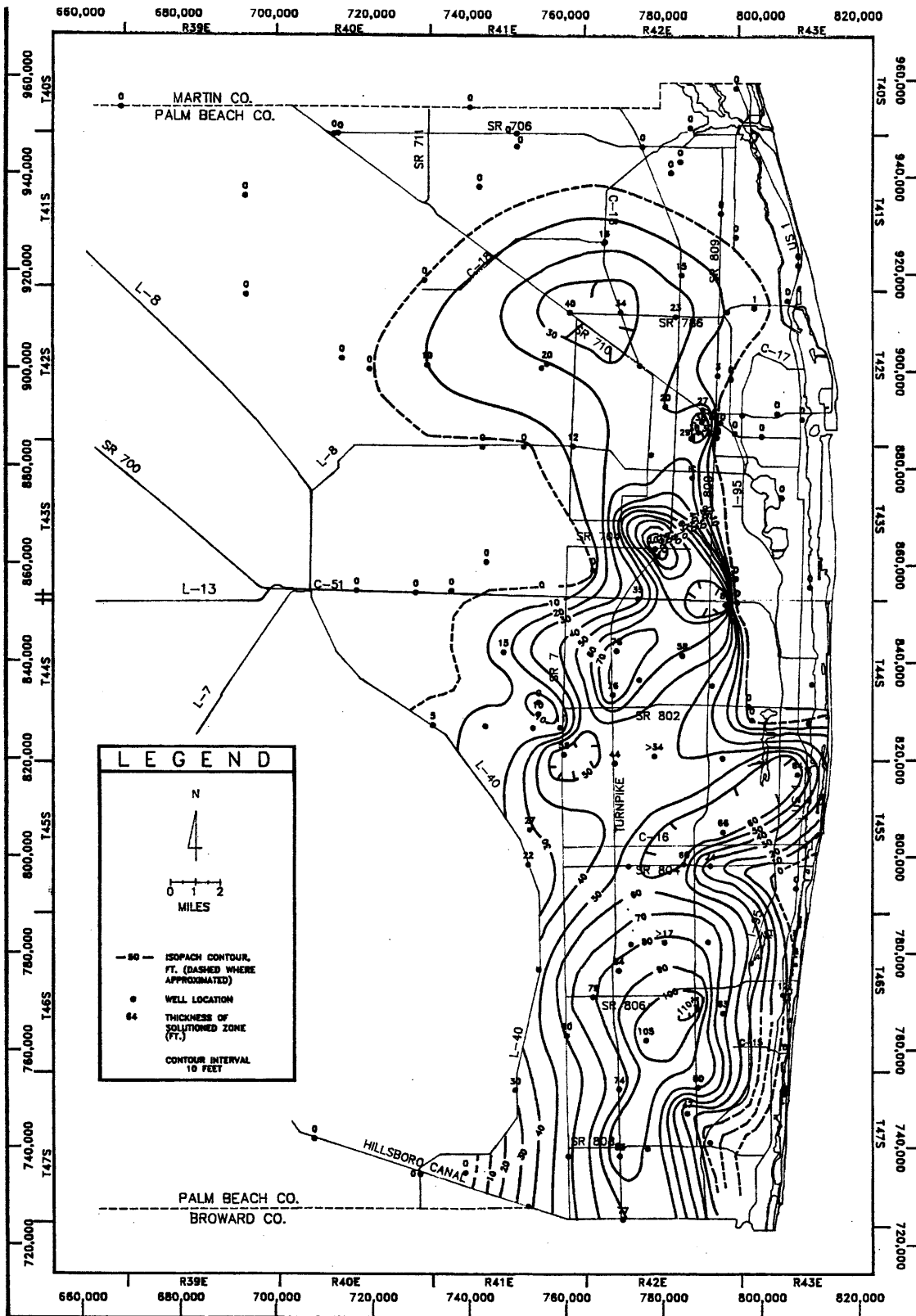


Plate 6 THICKNESS OF THE BISCAYNE AQUIFER WITHIN THE SURFICIAL AQUIFER SYSTEM IN EASTERN PALM BEACH COUNTY, FLORIDA

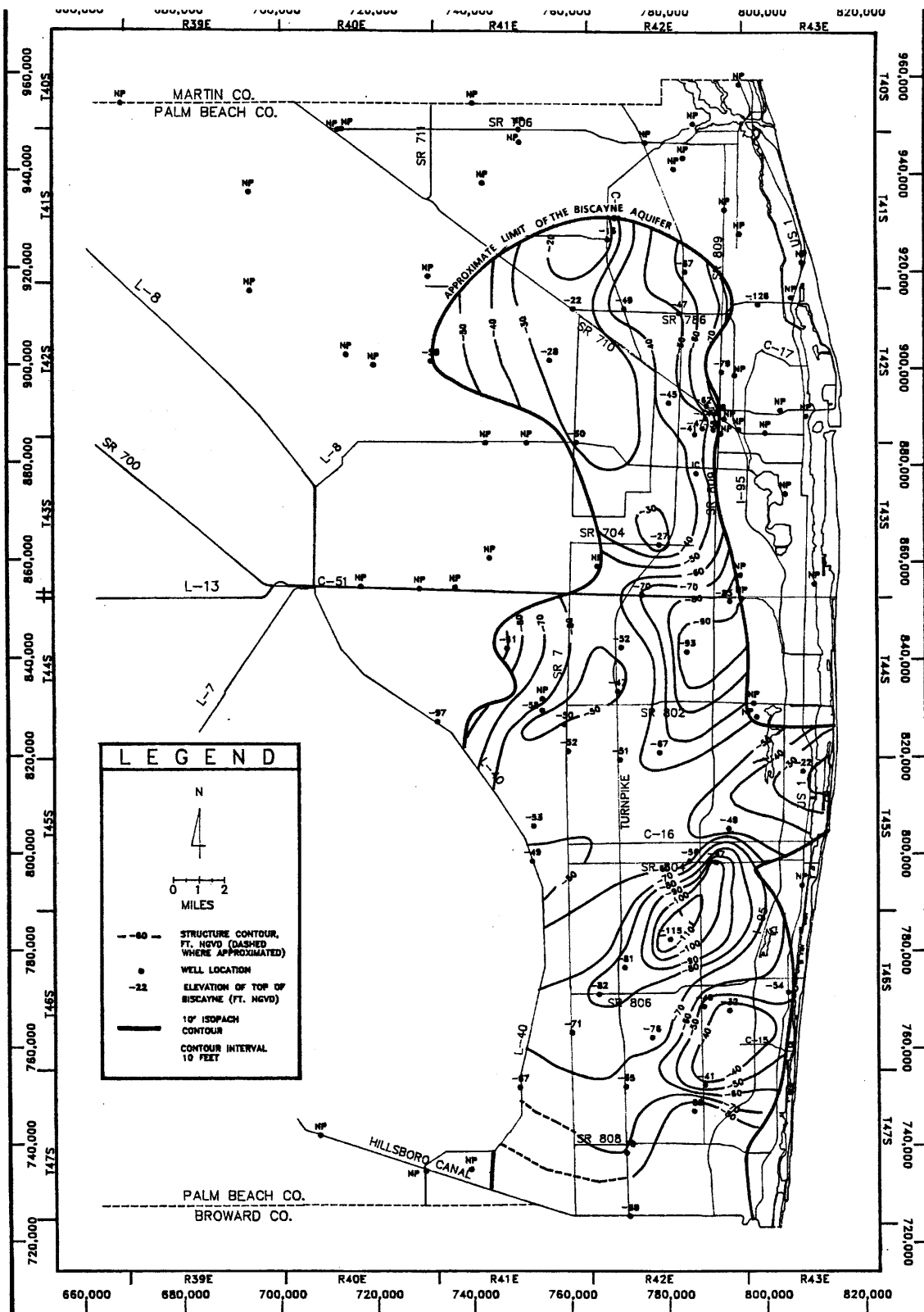


Plate 7 ELEVATION OF THE TOP OF THE BISCAYNE AQUIFER WITHIN THE SURFICIAL AQUIFER SYSTEM IN EASTERN PALM BEACH COUNTY, FLORIDA

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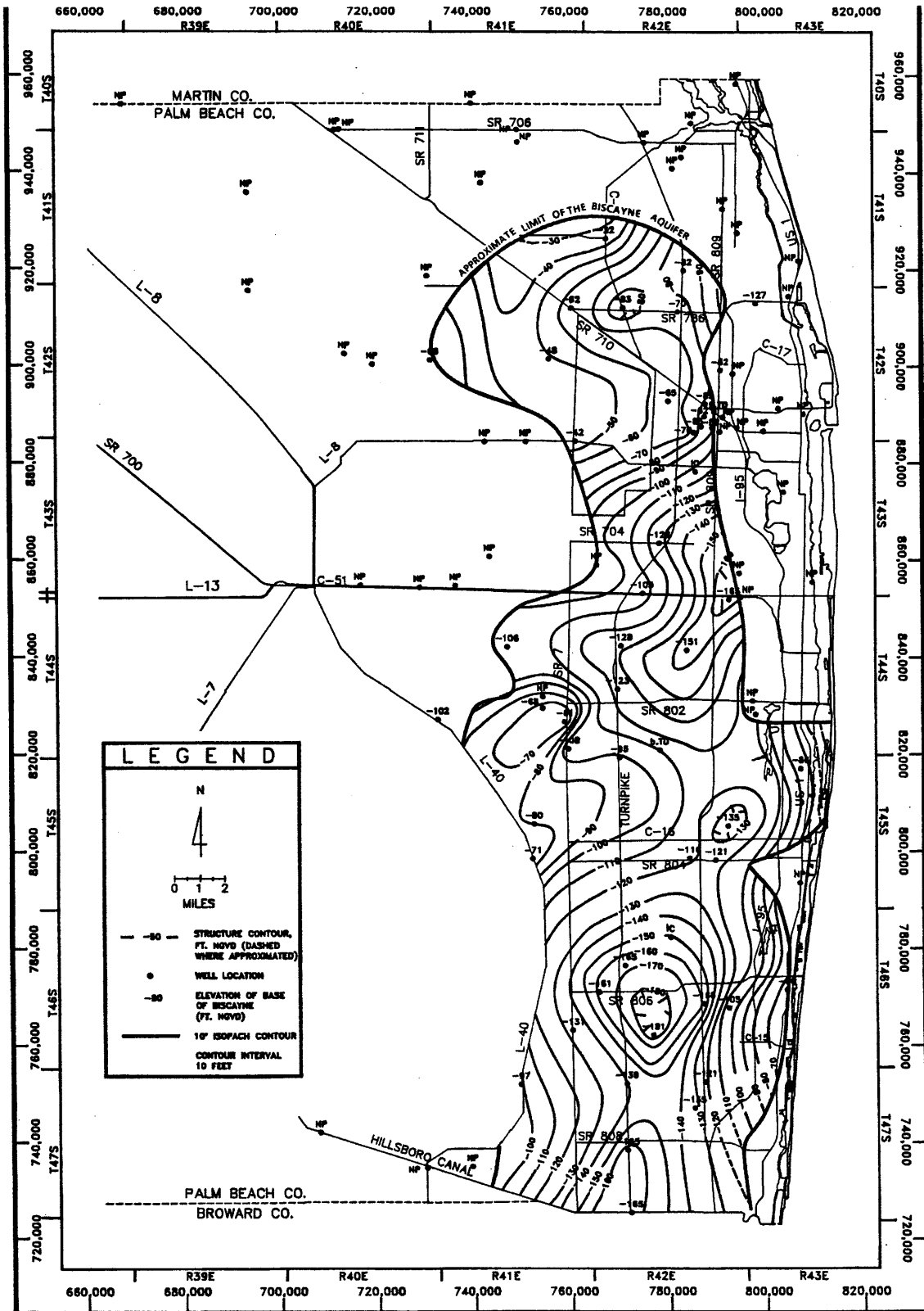


Plate 8 ELEVATION OF THE BOTTOM OF THE BISCAYNE AQUIFER WITHIN THE SURFICIAL AQUIFER SYSTEM IN EASTERN PALM BEACH COUNTY, FLORIDA

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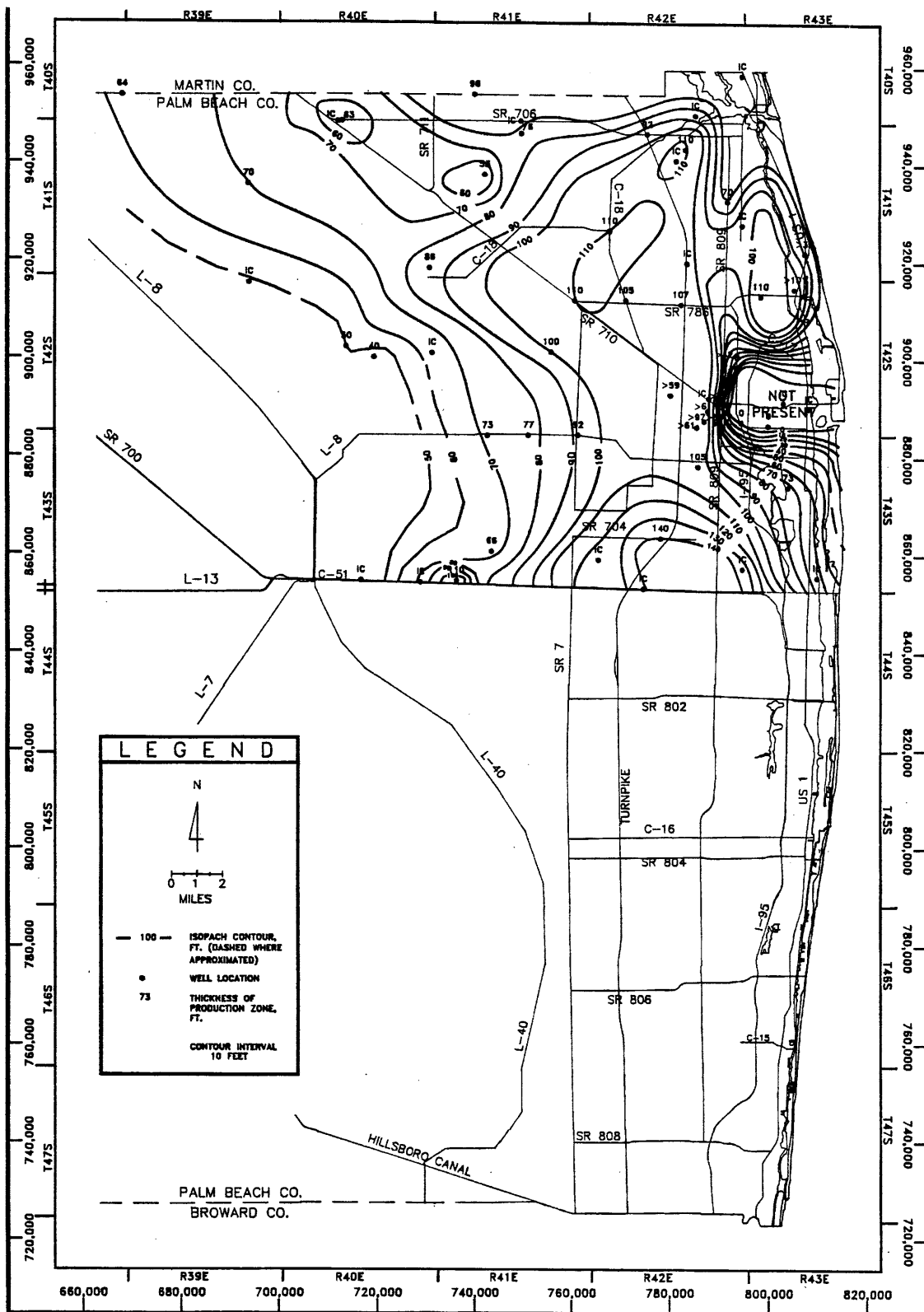


Plate 9 THICKNESS OF THE PRODUCTION ZONE WITHIN THE SURFICIAL AQUIFER SYSTEM OF NORTHEAST PALM BEACH COUNTY, FLORIDA

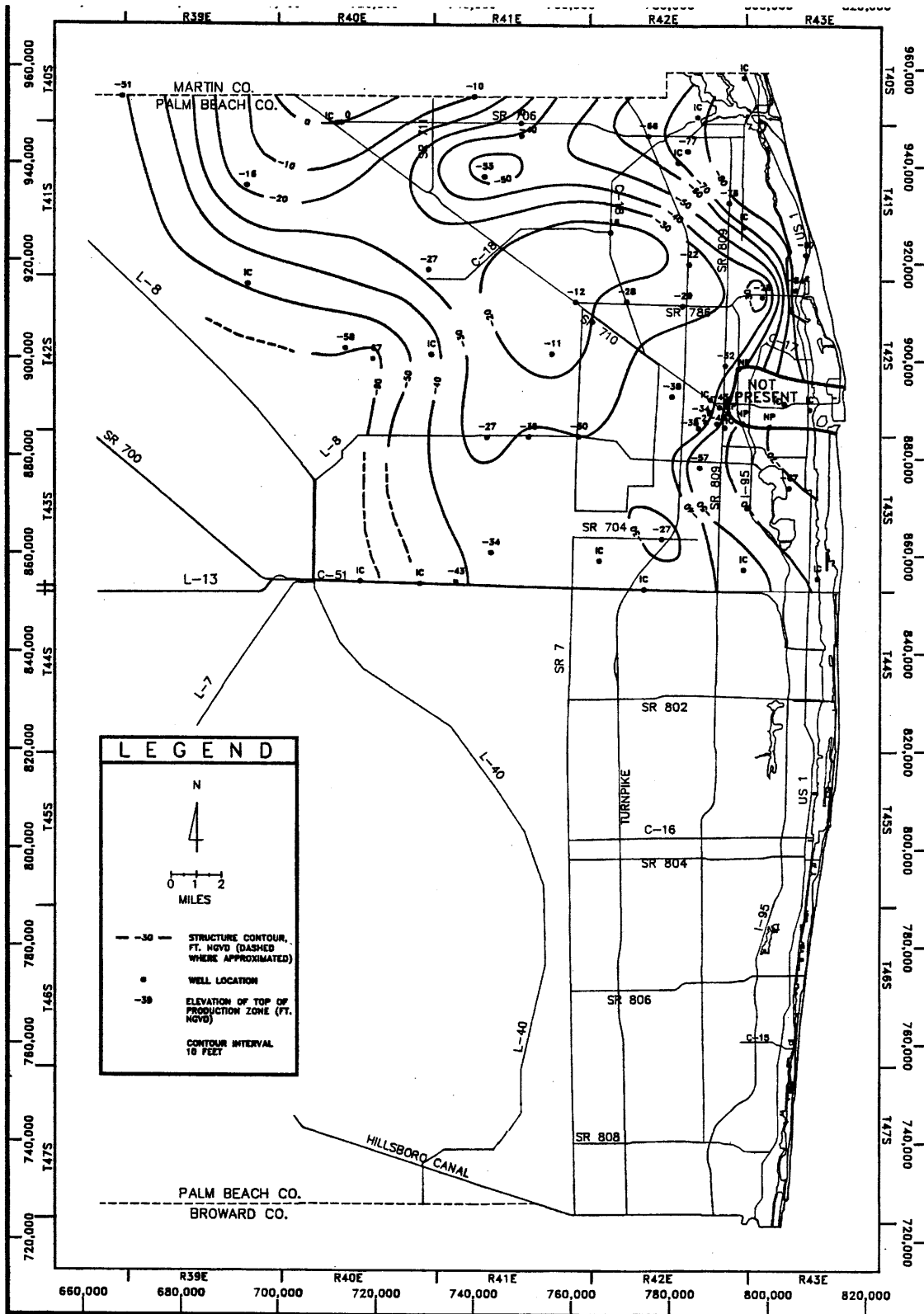


Plate 10 ELEVATION OF THE TOP OF THE PRODUCTION ZONE WITHIN THE SURFICIAL AQUIFER SYSTEM OF NORTHEAST PALM BEACH COUNTY, FLORIDA

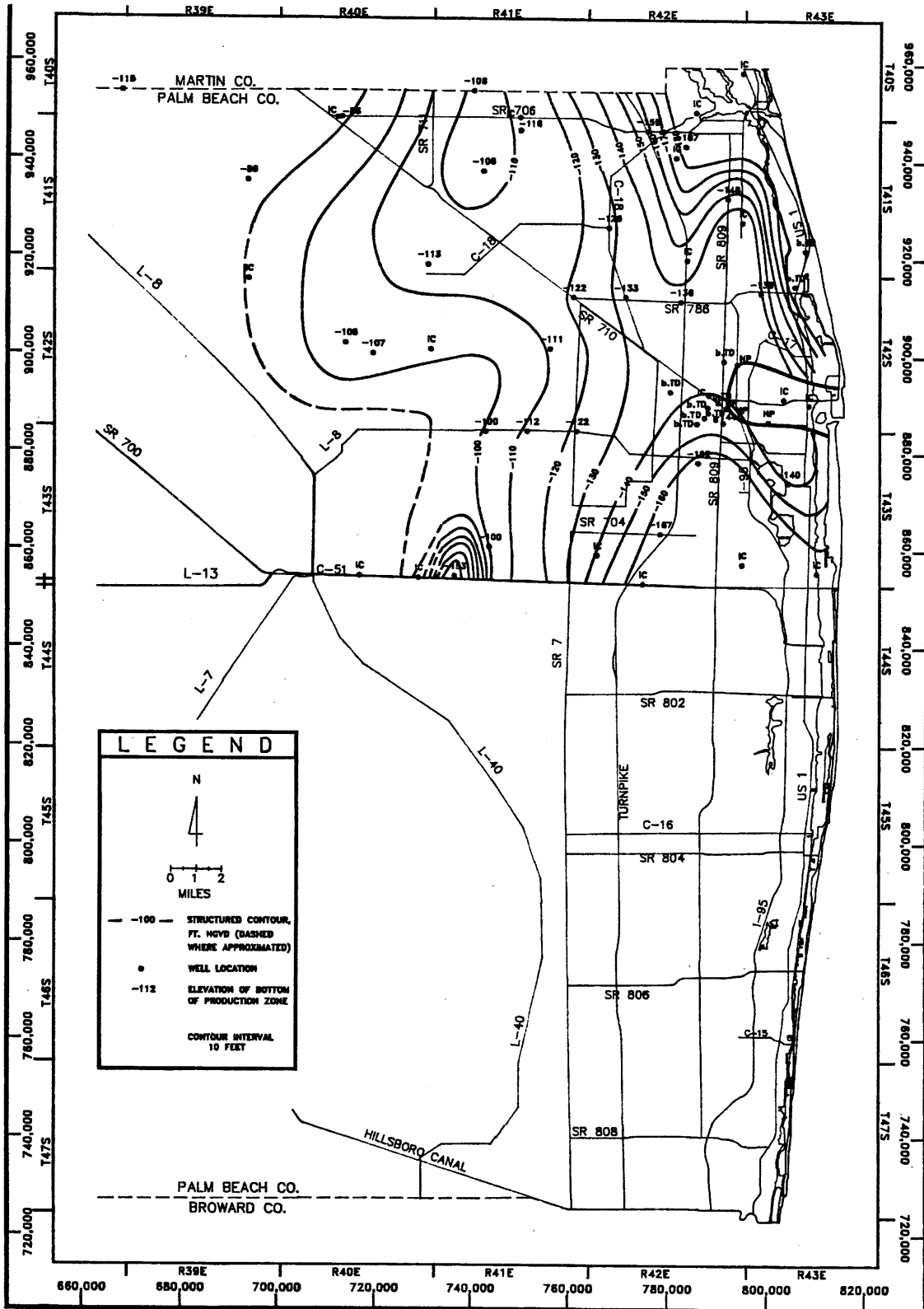


Plate 11 ELEVATION OF THE BOTTOM OF THE PRODUCTION ZONE WITHIN THE SURFICIAL AQUIFER SYSTEM OF NORTHEAST PALM BEACH COUNTY, FLORIDA

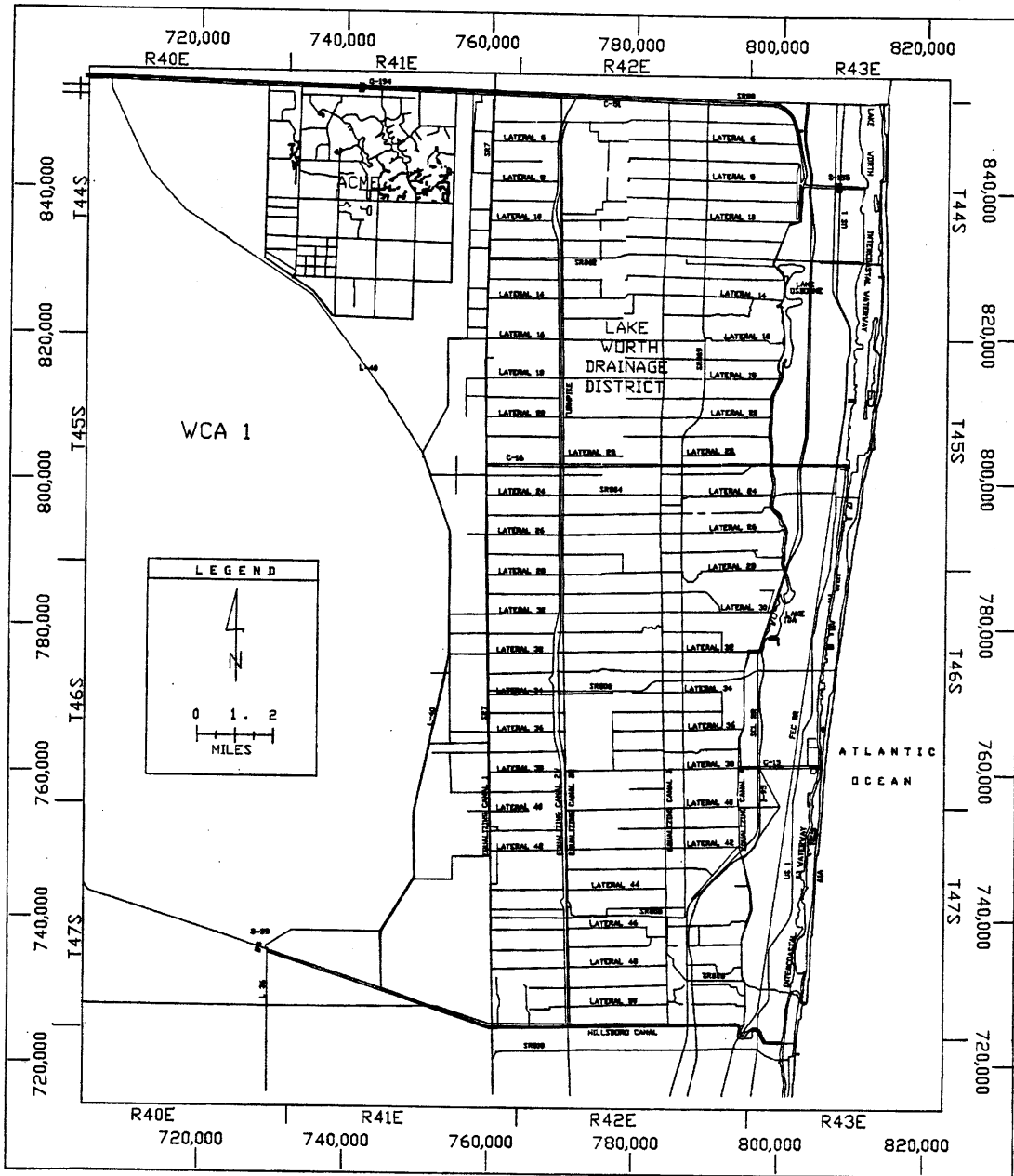


Plate 15a DRAINAGE AND WATER CONTROL DISTRICTS IN SOUTHEASTERN PALM BEACH COUNTY, FLORIDA - 1985

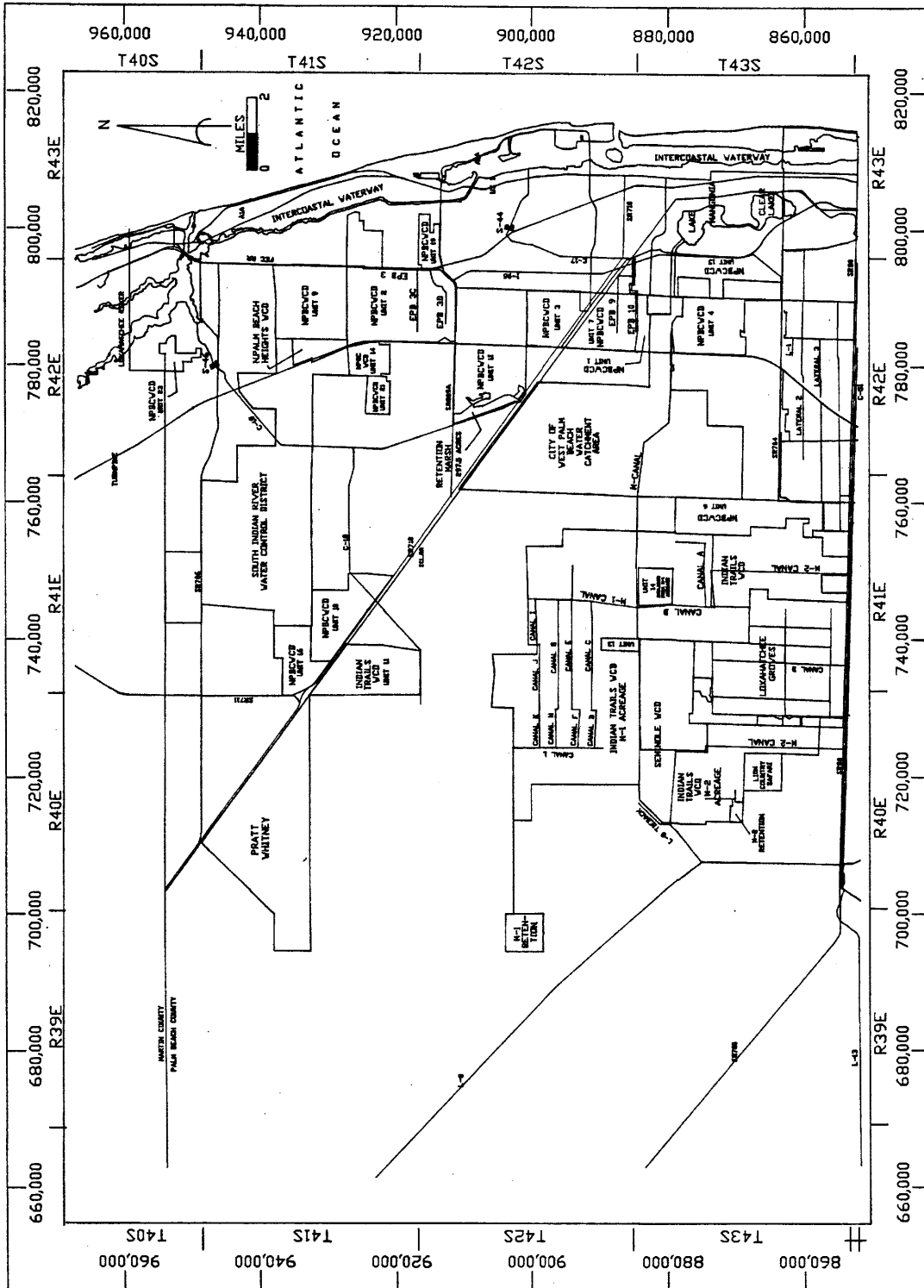


Plate 15b DRAINAGE AND WATER CONTROL DISTRICTS IN NORTHEASTERN PALM BEACH COUNTY, FLORIDA - 1985

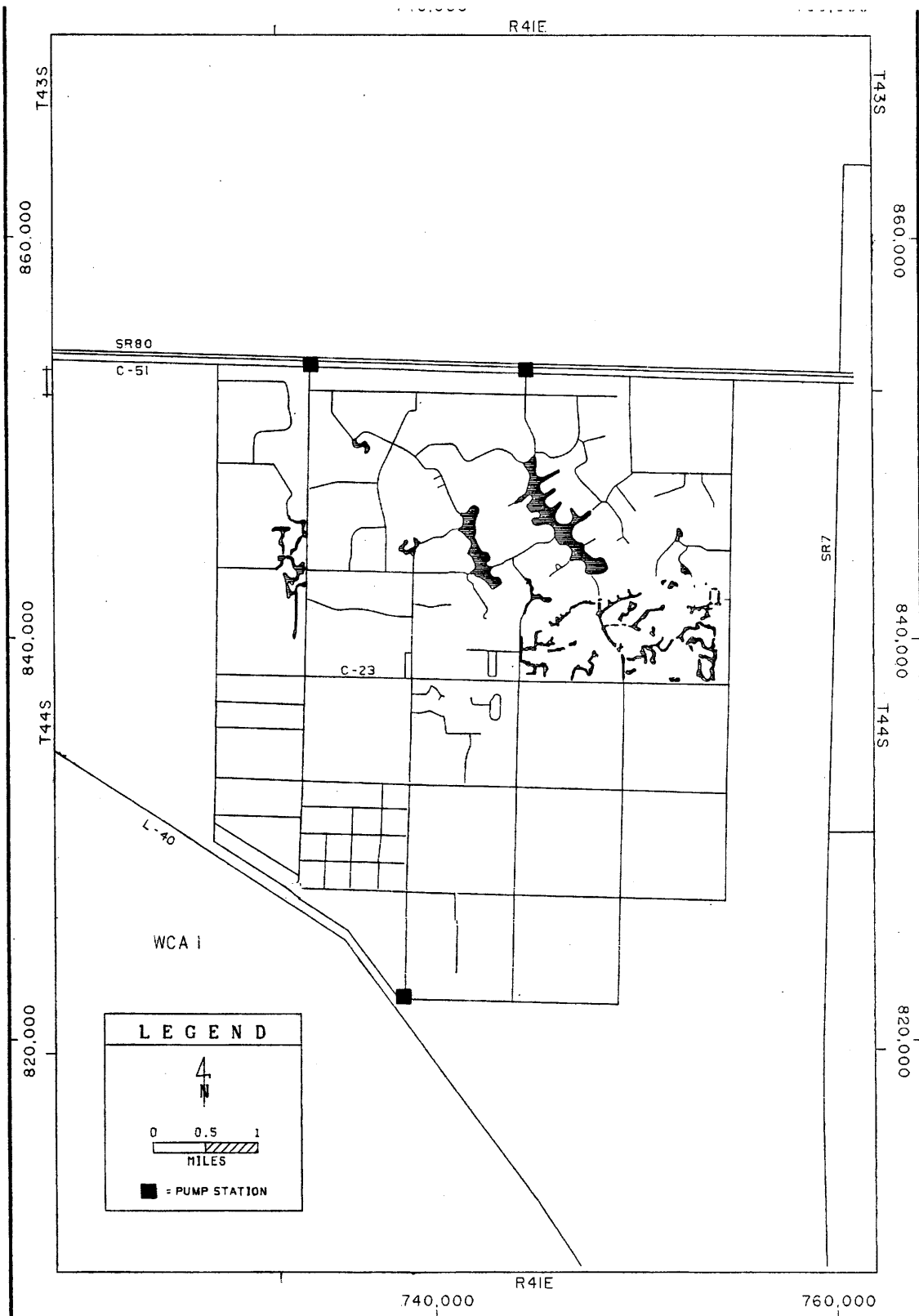


Plate 17 ACME IMPROVEMENT DISTRICT CANALS AND PUMP STATION LOCATIONS

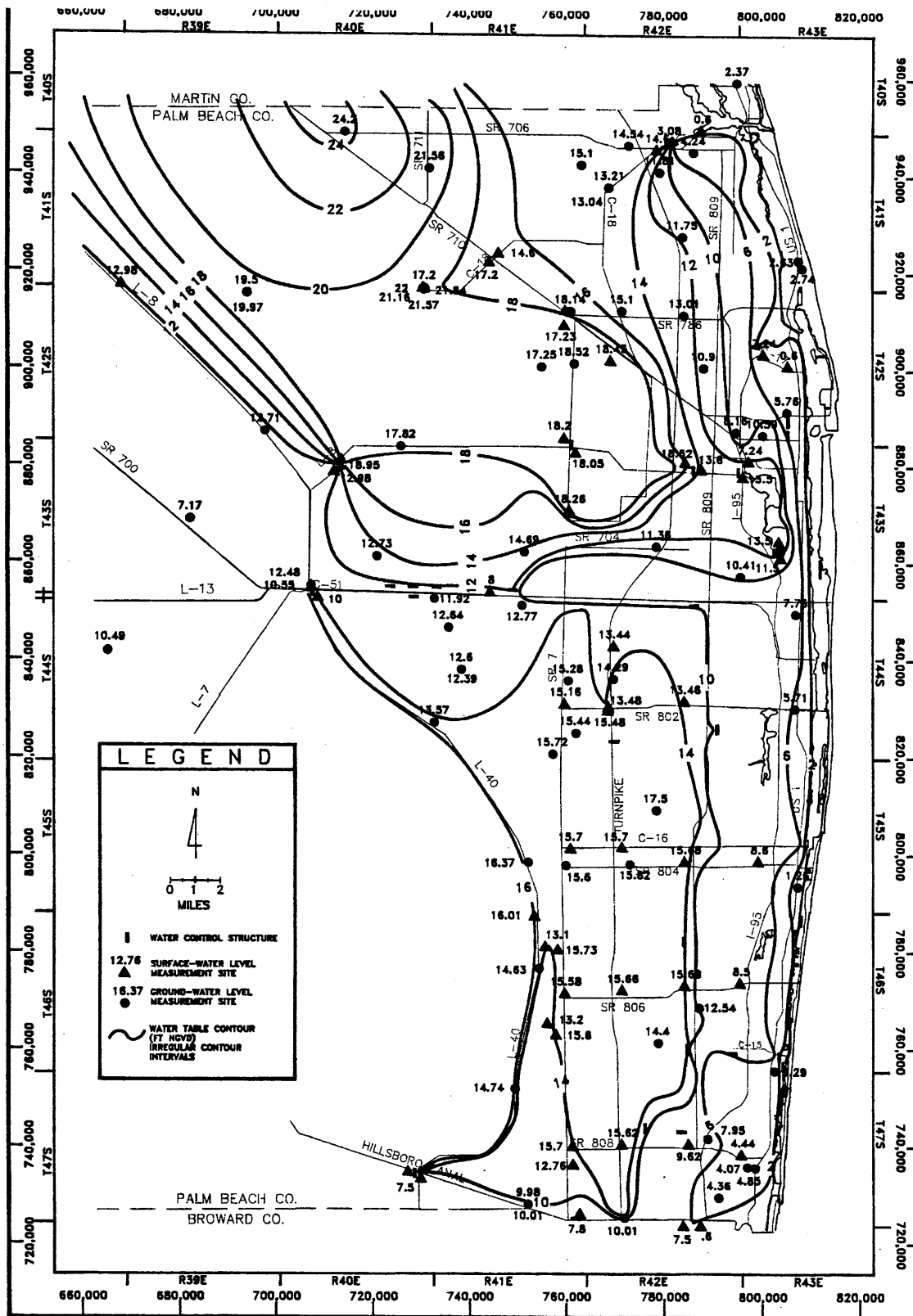


Plate 19 ALTITUDE OF WATER TABLE, SURFICIAL AQUIFER - EASTERN PALM BEACH COUNTY FLORIDA, NOVEMBER 9-14, 1984 (MODIFIED FROM MILLER 1985)

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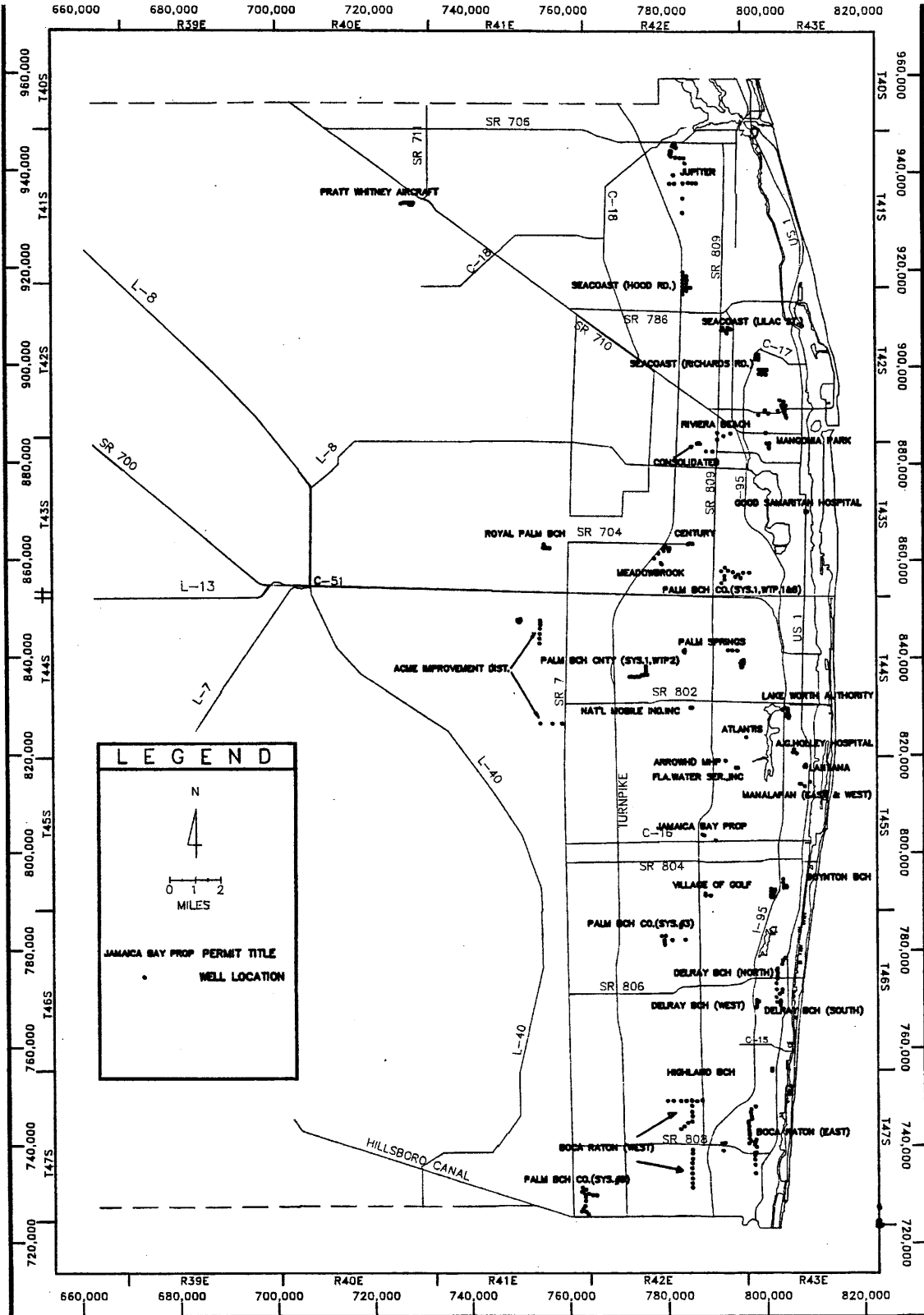


Plate 20 PUBLIC WATER SUPPLY WELLFIELDS USED IN THE NOV. 1983 TO MAY 1985 MODEL CALIBRATION PERIOD

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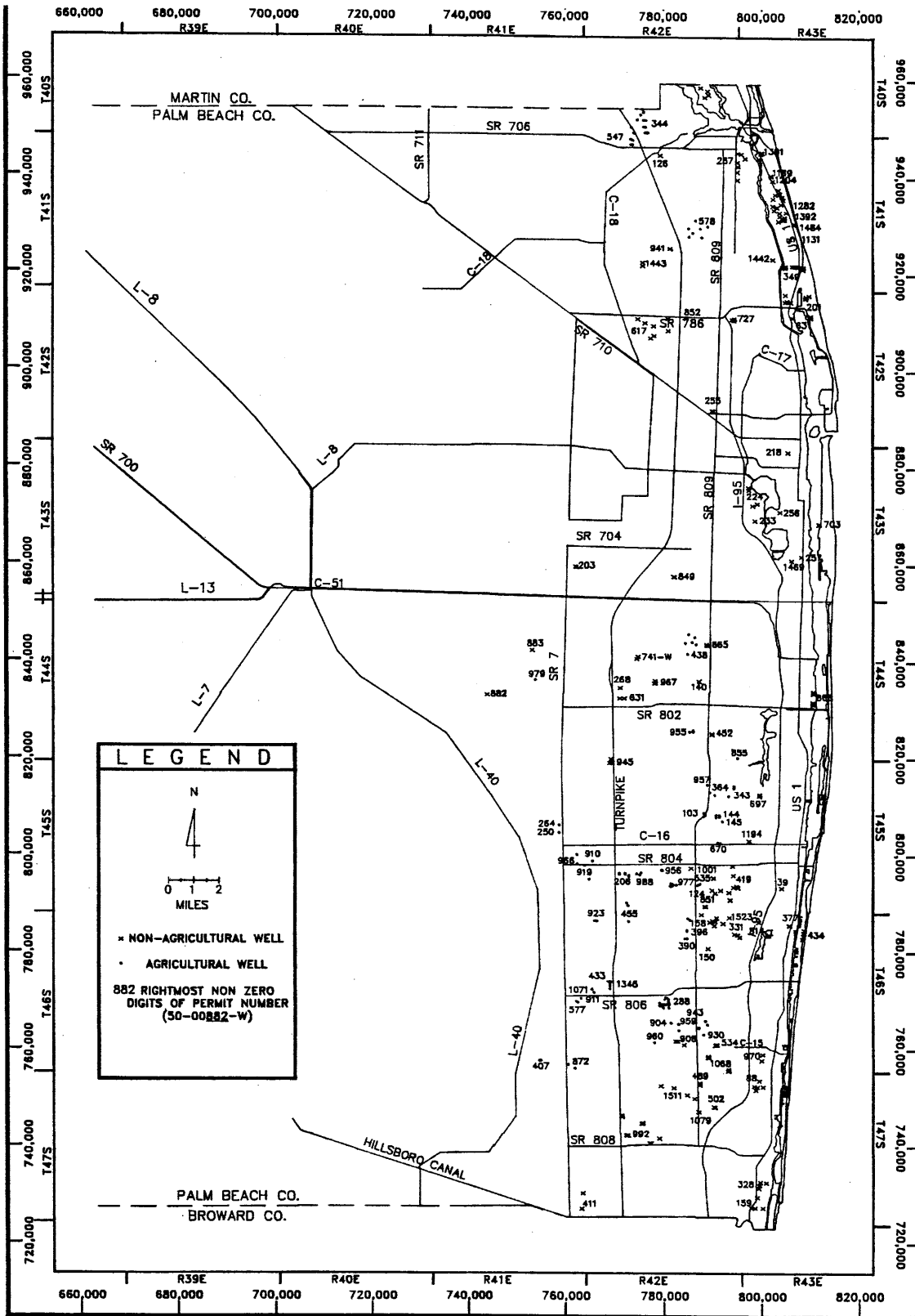


Plate 21 LOCATIONS OF NON PUBLIC WATER SUPPLY WELLS WITH INDIVIDUAL WATER USE PERMITS IN EASTERN PALM BEACH COUNTY

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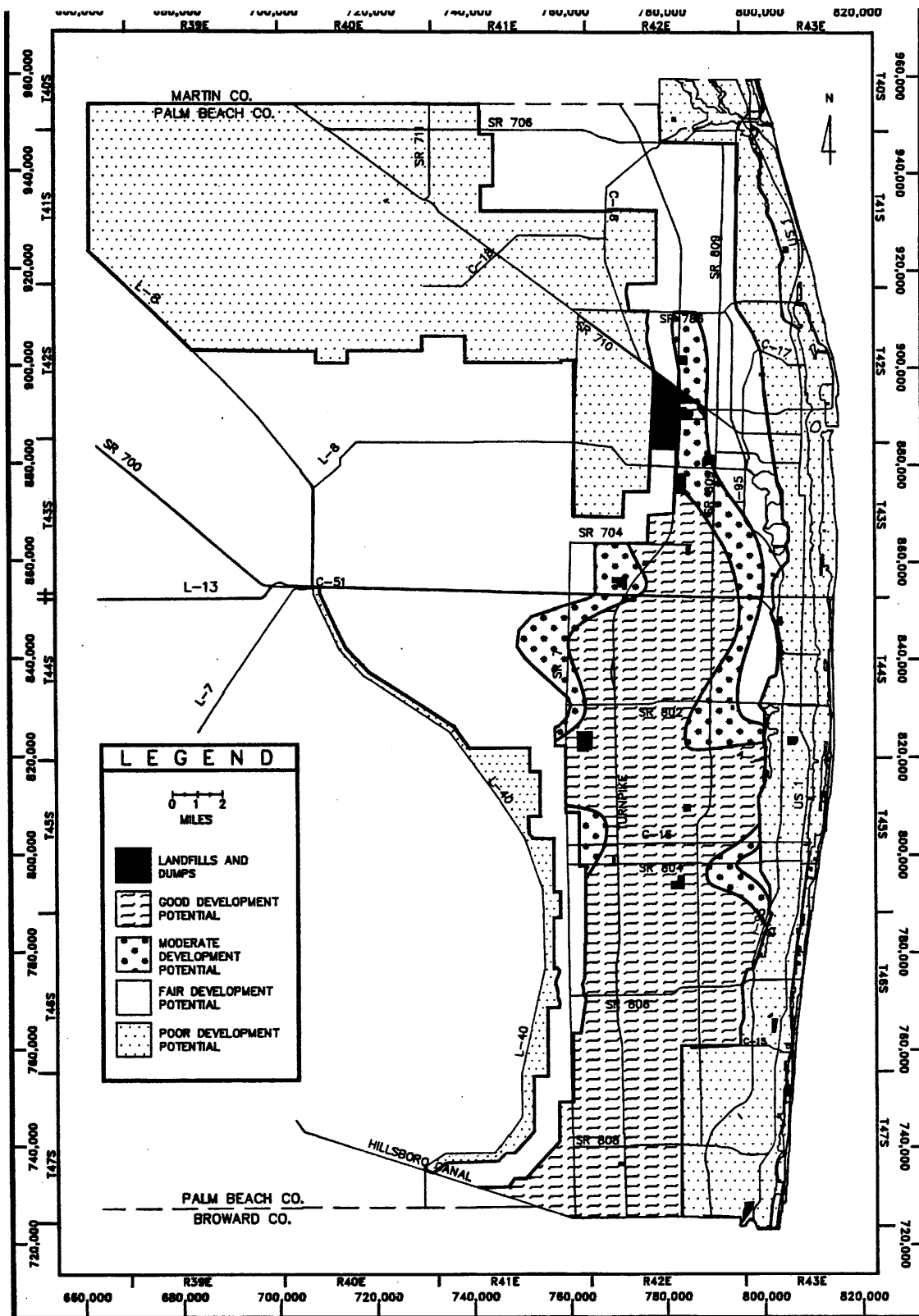


Plate 23 GROUND WATER DEVELOPMENT POTENTIAL OF THE SURFICIAL AQUIFER SYSTEM IN EASTERN PALM BEACH COUNTY, FLORIDA

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APPENDIX G

**THICKNESS OF MODEL LAYERS BY CELL,
SOUTH PALM BEACH COUNTY MODEL**

APPENDIX H

**TRANSMISSIVITY OF MODEL LAYERS BY CELL
SOUTH PALM BEACH COUNTY MODEL**

APPENDIX K

**THICKNESS OF MODEL LAYERS BY CELL,
NORTH PALM BEACH COUNTY MODEL**

APPENDIX L

**COMPOSITION OF MODEL LAYERS BY CELL,
NORTH PALM BEACH COUNTY MODEL**

APPENDIX M

**TRANSMISSIVITY OF MODEL LAYERS BY CELL,
NORTH PALM BEACH COUNTY MODEL**

