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# National Register of Historic Places Registration Form

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This form is for use in nominating or requesting determinations of eligibility for individual properties or districts. See instructions in *Guidelines* for Completing National Register Forms (National Register Bulletin 16). Complete each item by marking "x" in the appropriate box or by entering the requested information. If an item does not apply to the property being documented, enter "N/A" for "not applicable." For functions, styles, materials, and areas of significance, enter only the categories and subcategories listed in the instructions. For additional space use continuation sheets (Form 10-900a). Type all entries.

(1 om 10 occa). Type an emilios.			
1. Name of Property			
historic name Marked Tree Lock	and Siphons		
other names/site number St. France		}	
	•		
2. Location			
street & number on the St. Fra	ancis River	N/A	not for publication
city, town Marked Tree			vicinity
state Arkansas code	05 <b>county</b> Poinsett	code 111	<b>zip code</b> 72356
	•		,
3. Classification			
Ownership of Property	Category of Property	Number of Resource	es within Property
private	building(s)		loncontributing
X public-local	X district	2	buildings
public-State	site		sites
public-Federal	structure	3	structures
pasiio i cacia.	object		objects
			Total
Name of related multiple property listing	~.	Number of contribut	
Name of related multiple property listing	g.		ring resources previously
		listed in the Nationa	ii Register N/A
4. State/Federal Agency Certifica	tion		
National Register of Historic Places In my opinion, the property X meet Signature of certifying official Arkansas Historic Preserv State or Federal agency and bureau  In my opinion, the property meet N/A Signature of commenting or other official State or Federal agency and bureau	vation Program  s does not meet the National Reg	gister criteria. See con	Torth in 36 CFR Part 60.  tinuation sheet.  Date  Date  Date
5. National Park Service Certifica	tion		
I, hereby, certify that this property is:	uon		
entered in the National Register.  See continuation sheet.  determined eligible for the National Register.  See continuation sheet.  determined not eligible for the National Register.	amy Schla	gel	<u> 5/2/88</u> 
removed from the National Register. other, (explain:)			_
		he Keeper	Date of Action

6. Function or Use	
Historic Functions (enter categories from instructions)	Current Functions (enter categories from instructions)
Transportation/water-related	Government/public works
Government/public works	Other: flood control
Other: flood control	
7. Description	
Architectural Classification (enter categories from instructions)	Materials (enter categories from instructions)
	foundation Concrete
Other: lock	walls N/A
Other: siphon	
	roof N/A
	other Metal/steel
	Concrete

Describe present and historic physical appearance.

### SUMMARY:

The Marked Tree Lock and Siphons are located approximately nine miles north of Marked Tree, in Poinsett County. The lock sits on an abandoned artificial channel of the St. Francis River, at the intersection of the Right Hand Chute of Little River Floodway with the St. Francis River Floodway. The siphons are located approximately 646 feet northeast of the lock, on the river and astride a closing levee or dam. The lock is constructed primarily of cast concrete, with a brick operating house. Basins and footings for the siphons are also concrete, and the siphon tubes are steel. Designed to function as an interrelated system, the lock and siphons represented both traditional and unconventional solutions to the problem of maintaining the St. Francis River as a navigable stream, while protecting habitable and productive lands from floods. The siphons' design is also, in part, a compromise with and adaptation to the topography of the St. Francis River Basin and is a unique application of an engineering structure of its type.

### ELABORATION:

The Marked Tree Lock is a reinforced concrete trench or trough 130 feet long, twenty-four feet wide, and thirty feet deep. Designed by Pride and Fairley of Blytheville, Arkansas, and Elliott and Harmon Engineering Company of Memphis, Tennessee, the lock was built by the McWilliams Construction Company of Memphis for approximately \$149,000. Located on an old artificial channel of the St. Francis River, the lock was completed in 1926 to allow passage from the St. Francis River Floodway to the original channel of the river after a sluiceway and closing levee were constructed. Four reinforced concrete gates and four vertical lift head gates regulated flow through the lock. operating house is a small, square, load-bearing brick, one room structure with a hip roof sheathed with composition shingles. On the north elevation, a door is centered and flanked on the west side of the elevation by a six pane casement window. On the east elevation, three six pane casement windows stretch across the side and overlook the lock. Only a single window of the same type is located on the west end of the south elevation. A single six pane casement window is centered in the west elevation. Curved rafter ends represent the only architectural details and reflect Craftsman influences. The lock is no longer used and, by December 1971, the lock gates were removed, its old channel was filled, the levee was extended across the trench, and the roadbed was continued across the lock fill. X See continuation sheet

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The Marked Tree Siphons replaced a concrete sluiceway which provided flow for navigation on the St. Francis River between Marked Tree and Wittsburg from 1926 to 1936. The siphons were designed and constructed by the Corps of Engineers Memphis District Office. Concrete basins and footings were constructed by List and Weatherley of Kansas City. Placed in operation on June 7, 1939, the siphons include the following structures: intake basin, siphon tubes, operating house, outlet basin, and trash barrier. The closing levee and the relative elevations of all structures are also essential elements in the function and operation of the siphons.

The intake basin is a 45.3 foot long submerged reinforced concrete box. The basin narrows from sixty-eight feet wide upstream to sixty feet wide at the siphon tubes and is supported on a sheet piling cell. Elevation of the basin floor is 198.3 feet above Mean Gulf Level (MGL), or five feet below the intake end of the siphon tubes. The trash barrier is located upstream from the intake basin and is constructed of timber pilings and wales. Because of deterioration, it is no longer effective.

The original levee, completed in 1926, was constructed under War Department permit at the point of intersection with the St. Francis River. Damaged in 1938, it was repaired and replaced with a closing levee composed of rolled fill. The levee crown was set at El. 229.0 MGL.

The outlet basin is also a reinforced concrete box constructed similar to the intake basin. The distance between the intake and outlet basins, or the base width of the levee, is 172.3 feet. The basin widens from sixty feet at the tubes to ninety-six feet downstream. Set at El. 190.0 MGL, the floor of the 75.5 foot long basin is nine feet below the outlet of the siphon tubes. The difference in elevation between the floor of the intake basin and the outlet basin floor is 4.3 feet.

The three siphon tubes are each nine feet in diameter and 228 feet long. Assembled in eight foot lengths and electronically welded to reduce friction, the completed tubes conform to the shape of the levee. The nine foot sections are three-eighths inch thick, while the flared intake and outlet ends are one-half inch thick. Structural steel angles are employed as reinforcing bands to prevent the tubes from collapsing under high vacuum. anchored at the summit of the levee, with additional footings located at twenty foot intervals. Except for the summit foundation, the footings have sliding seats to allow for expansion and contraction of the tubes with temperature changes. The tube ends are supported on the back wall of each The tubes are air tight and the ends submerged in water in the outlet and intake basins. A wooden trestle bridge spans the siphon tubes.

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The siphons are primed by exhausting the air from the three tubes with a vacuum pump in an operating house. As the air is removed through valves located at the highest point of each tube, water flows in at each end until the tube is filled. The vacuum pump is then stopped. Because hydrostatic force due to gravity is greater on the longer leg of the siphon, the water moves toward the lower vessel, or the outlet basin. After the flow is begun, it is self-sustaining. The flow of water can only be regulated by operating one or more pipes at a time.

Machinery for operating the vacuum pumps is housed in a one room, retangular, frame building located adjacent and to the west of the siphon tubes and south of the trestle bridge. The hip roof of the operating house is sheathed with composition shingles and the walls are sheathed with novelty siding. ends are exposed. Set on the levee slope, the building's concrete slab foundation rises from ground level on the north end to approximately three feet high on the south end. The single door is located on the north edge of the facade, or west elevation. Two double-hung, six-over-six windows, presently boarded over, frame a centrally fixed Corps of Engineers plaque on this elevation. On the north and south elevations, single, centrally located double-hung, six-over-six windows are the only features. They are also boarded over. Identical windows on the rear, or east, elevation flank three, six inch diameter vacuum pipes which lead to the automatic valves on the siphon tubes. Only the window on the north end of this elevation is boarded A six inch diameter exhaust discharge pipe also pierces the wall below the window located on the south end of the elevation.

8. Statement of Significance	
Certifying official has considered the significance of this property  X nationally st	in relation to other properties: atewide locally
Applicable National Register Criteria	D
Criteria Considerations (Exceptions)	D DE F KG
Areas of Significance (enter categories from instructions)  Engineering  Transportation	Period of Significance 1926–1939 Significant Dates 1926 1938–1939
	Cultural Affiliation N/A
Significant Person N/A	Architect/Builder Memphis District Office, U.S. Army Corps of Engineers

State significance of property, and justify criteria, criteria considerations, and areas and periods of significance noted above.

### SUMMARY:

The Marked Tree Lock and Siphons are nominated under Criteria A and C. Criterion A, the lock and siphons were essential elements in local and national efforts to maintain navigability of the St. Francis River, as well as to protect productive resources and expanding settlements in the river basin. They also represent the increasing involvement of the U.S. Army Corps of Engineers in the design and maintenance of flood control structures in the Mississippi Valley. From 1936, the St. Francis River Basin Flood Control Project was part of an attempt to standardize local drainage and levee systems and to formalize a consistent, unified national flood control project. Although less than fifty years old, the Marked Tree Siphons are also significant under Criterion C. According to Corps of Engineers Memphis District Office records, the siphons are an unexampled engineering structure and possibly the only siphons of their type in the United States. Project engineers continually referred to the "pioneer nature" of the project and to "an engineering design which is unique in application"--lifting a river across In addition to their significance, the siphons were also astonishingly successful. According to a 1983 Corps of Engineers justification report on the repair of the siphons, their operating efficiency of 97.1 percent was "not thought to have been achievable under conditions other than those of laboratory models. . . [F]or any siphon over an earth embankment, of the size and capacity of these barrels if such exist, this refinement of design has produced an efficiency which is believed unique."

### ELABORATION:

In the traditional flow of westward movement, the St. Francis River Basin was shunned by settlers and regarded as an obstacle to progress and development. Scoured by the errant wanderings of the Mississippi River in prehistoric times, the area remained sparsely populated into the late nineteenth and early twentieth centuries. Early travelers found a maze of swamps, shallow lakes, and seemingly aimless rivers and streams which defied meager, unorganized 

X See continuation sheet

N/A	X See continuation sheet
Previous documentation on file (NPS): N/A	
preliminary determination of individual listing (36 CFR 67)	Primary location of additional data:
has been requested	X State historic preservation office
previously listed in the National Register	Other State agency
previously determined eligible by the National Register	X Federal agency
designated a National Historic Landmark	Local government
	University
recorded by Historic American Buildings	
Survey #	X Other
recorded by Historic American Engineering	Specify repository:
Record #	Memphis District Office, Corps of Engineers;
	Drainage District Seven of Poinsett Co.
10. Geographical Data	
Acreage of property 5.25	
UTM References         A [1,5] [7]3,2[8,8]0 [3,9]4,0[8,9]0         Zone Easting Northing         C [1,4] [1,4] [1,4] [1,4]	B L L L L L L L L L L L L L L L L L L L
	See continuation sheet
Verbal Boundary Description	
The boundary of the Marked Tree Lock and Siph accompanying map entitled "General Plan, Mark	ons is shown as the solid line on the ed Tree Lock and Siphons."
	See continuation sheet
Boundary Justification	
The boundaries of the nominated district con	
most closely associated historically with na	
St. Francis River: the lock, the siphons an	d their basins, the operating
houses for both structures, and the closing	
,	
	See continuation sheet
11. Form Prepared By	
name/title Steve Mitchell, Historian	
	March 0 1000
organization Arkansas Historic Preservation Program	date March 9, 1988
street & number 225 East Markham	telephone (501) 371-2763
city or town <u>Little Rock</u>	state Arkansas zip code 72201

9. Major Bibliographical References

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efforts to reclaim the fertile land. The Basin's drainage problems were intensified by the New Madrid Earthquakes of 1811-1812, as caved banks and felled trees along the St. Francis and other rivers created vast rafts which inundated large portions of the area and convinced observers of the disaster's aftermath that the region had subsided.

In 1836, a report to the Senate Committee on Commerce described the course of the St. Francis River from Cape Giradeau to Helena: "The greater part of the area . . . is covered by an immense morass, inundated by the overflowing of the `Father of Waters,' or submerged by the rushing torrents from the neighboring hills. . . . These streams . . . spread over the country, giving it the appearance of a vast Lake over which magnificient forests of Cypress and other gigantic trees wave their branches in gloomy solitude." Only the "lost hills" of Crowley's Ridge dominated a region "annually covered by water, and at all seasons by a heavy growth of timber [and] thick cane-breaks closely interwoven by many plants . . ."

In 1840 and 1842, original surveyors of these lowlands encountered broad expanses submerged under three to four feet of water much of the year. In addition, timber and other growth often extended from one to one-and-a-half miles into the flooded areas. Confounded in their attempts to establish section lines, the surveyors instead meandered along the edges of the impassable reaches and listed large portions of the St. Francis Basin as lakes or "Sunk Lands" on survey plats. The largest such area in Poinsett County was Lake St. Francis, which reached depths of up to fifteen feet as the river bed was neared. The lake, which began six miles north of Marked Tree, extended a distance of twenty-four miles and broadened to a width of twelve miles.

Most of the St. Francis River Basin was patented under the 1850 Swamp Land Act. Designed to help Arkansas and other states retrieve their lowlands from flood waters and impaired drainage, the act granted the states all unsold federal lands judged "swamp and overflowed lands, unfit thereby for cultivation." The intent of the legislation was to allow the states, by sale of the swamp lands, to raise revenue exclusively for the construction of levees and drains to reclaim the lands. The Surveyor-General initially approved 428,620 acres of swamp lands in Poinsett County, the fifth largest amount in any Arkansas county. Land patented as swamp land was sold and auctioned for fifty cents to \$1.25 per acre.

Early efforts at flood and drainage control were sporadic and largely futile. The fragile levees, derided as "mud pies," were virtually useless during Mississippi River floods which occurred with relentless frenquency in 1858, 1862, 1867, 1882, 1884, and 1890. Organized levee construction in the Basin began in 1893 with the formation of the St. Francis Levee District, which was unable to control an equally disasterous flood only four years later. The

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1897 flood prompted some engineers to suggest to the Senate Committee on Commerce that the still largely unsurveyed St. Francis Basin be depopulated and divided into a series of reservoirs. In the justification for this suggestion, Mississippi River Commission Engineer J. A. Ockerson explained: "We know, in a general way, that [the Basin] is filled with sloughs, swamps, and ridges, and that only about 15 per cent of it is cleared land."

The Commerce Committee rejected Ockerson's plan as impractical and continued to rely on the inconstant system of levees. Floods continued to occur, also, most notably in 1903, 1912, 1913, 1915, and 1916. With the accumulation of disaster, Congress finally responded. The Ransdell-Humphreys Flood Control Act of 1917 reaffirmed the Federal government's committment to flood prevention and control, although the \$45 million appropriation was insufficient. Local interests were encouraged by a provision of the act which reduced their contribution to one-half the cost of flood prevention works in their area, from the two-thirds previously required.

Efforts to control the river upstream only intensified the severity of floods in the unprotected areas downstream. In 1917, Senator Thaddeus H. Caraway warned the "prominent men in Eastern Arkansas" that Missouri intended to divert the overflow from the Ozarks and "turn the entire column loose on Arkansas." Caraway counseled Arkansans to seek an injunction against the Missouri improvement districts until the United States government canalized or dredged the St. Francis River to control the increased volume of water. A solemn editorialist for the Marked Tree Tribune agreed and warned that, if the Missouri projects were completed, "the entire St. Francis basin will become a wilderness of water..."

In the same year, with the renewed interest in flood prevention, General Assembly passed Act 193, which created Drainage District Number Seven in Poinsett County. The District boundaries, which originally encompassed the lands between Crowley's Ridge and the St. Francis River and Lake, were amended in 1919 to eventually include 190,000 acres in eastern Poinsett County. 1919, the District, one of the largest in the country, began a series of ambitious, interrelated projects designed to reclaim "the lands therein by drainage ditches and levees." The first concern was management of waters which entered Poinsett County from adjacent counties. On the north boundary of the county, levees which enclosed Lake St. Francis were continued from Craighead County, and, in the northeast, Mississippi County's Drainage District Number Seventeen floodway was extended into the Lake St. Francis Even before this influx of additional water, in flood periods the St. Francis River left its channel near the foot of Lake St. Francis and flowed unchecked through Sand, Willow, and Flag Sloughs, periodically flooding much valuable agricultural land before it reentered its channel near Wittsburg.

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District Engineer Pride and Fairley of Blytheville, Arkansas, and Consulting Engineers Elliott and Harmon Engineering Company of Memphis, Tennessee, were instructed to draft a comprehensive drainage plan for the district. stabilize and control the tortuous St. Francis, Drainage District Number Seven planned to strictly regulate the river's flow north of Marked Tree and divert overflow water to the Steep Gut Floodway, a one mile wide artificial, 20,000 acre channel which would be constructed from the foot of Lake St. Francis to the Poinsett-Cross county line. The district proposed to dam the river about nine miles north of Marked Tree and preserve a normal flow--2,600 c.f.s.--in A second channel and a lock would maintain navigability the original channel. at the point a closing levee was established. Finally, a sill would be constructed across the floodway entrance at a height of 210.25 feet above Mean The only outlet for waters below that level was the sluiceway, while levees channeled waters in excess of that level down the floodway.

The St. Francis River was designated navigable to Nappapello, Missouri, and carried a considerable traffic of lumber, log rafts, and boats. On January 4, 1924, the War Department granted a permit to construct sluices, a lock and its approaches, and a floodway sill on the condition that Drainage District Number Seven maintain the normal flow of the river in the original channel. On September 21, 1923, the McWilliams Construction Company of Memphis was awarded a contract to build Improvement Number 89—a sluiceway, or gated concrete box which contained four barrels eight feet by six feet in diameter, two hundred feet long. The sluiceway, which cost approximately \$50,000, regulated the volume of river flow through the closing levee. On March 25, 1924, McWilliams also received the contract for Improvement Number 88, a lock which would allow river traffic to continue around the sluiceway. The Steep Gut Floodway, lock, and sluiceway were completed in 1926, just prior to the flood of 1927, which destroyed many of the Drainage District's levees.

In 1928, in response to the previous year's devastating overflow, Congress approved the Flood Control Act, which formalized the Jadwin Plan for flood control in the Mississippi Valley. The plan, espoused by Edgar Jadwin, Chief of the Corps of Engineers, again rejected the revived scheme for converting the St. Francis Basin into a reservoir. Instead, Jadwin recommended raising the Basin's levees an average of three-and-one-half feet above their current grade and increasing the width of the Steep Gut Floodway to two miles. The improvements were completed by 1934 and enabled the floodway to carry twice its previous flow at the same stage.

Satisfaction with the new improvements was tempered by fatal problems experienced with the sluiceway in the previous year. In 1933, forty feet of the outlet end of the sluiceway broke and dropped to a thirty degree angle, which caused a portion of the levee to collapse. A row of piles constructed

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to protect the levee from further caving permitted the continued operation of the damaged sluiceway until 1936. In that year, the Flood Control Act was amended to include the St. Francis and Little Rivers in its protection, and an inspection of the sluiceway by the Corps of Engineers in October revealed the levee had seriously eroded. Flow was stopped and navigation of sixty-four miles of the St. Francis River from Marked Tree to Wittsburg was effectively halted.

The District's levees and other projects sustained damage in the 1937 flood and, in April 1938, the Jadwin Plan was amended to include the \$21,700,000 St. Francis River Basin Flood Control Project in Missouri and Arkansas. The project, under the direction of U.S. District Engineer Major Daniel Noce, was designed to protect one million acres in Arkansas, and in Poinsett County included repair and strengthening of existing levees and construction of new levees on the St. Francis and Little Rivers.

Flow of the St. Francis River between Marked Tree and Wittsburg remained interrupted and river traffic disrupted, however. Before the damage to the sluiceway, lockings through the companion lock averaged 750 per month. Logging interests threatened a lawsuit if navigation, halted since October 1936, was not restored. In December 1937, the Corps of Engineers began what were intended to be permanent repairs to the sluiceway. On May 7, 1938, as Corps and Drainage District personnel worked to repair the sluiceway, high waters crevassed the levee and washed out a ninety foot gap. The sluiceway settled and was damaged beyond repair, the District's hydroelectric plant was destroyed, and nearly 2000 acres were flooded. Over the next two weeks, up to eight hundred men, many from the National Re-employment Service, worked desperately to stabilize the levee and prevent further damage. By October, the break was finally repaired, the remains of the sluiceway removed, and the river dammed, its flow again diverted down the floodway.

According to Corps Engineers, the sluiceway and levee failed because they were constructed on an underlying strata of fine sands which tended to become "quick" when saturated. The only satisfactory sluiceway replacement employed cellular sheet piling in the foundation, which was judged prohibitively expensive. Because of the cost, as well as concern for the safety of the levee and any structure on the uncertain foundation, the Memphis District Corps of Engineers Office announced it would permanently dam the levee gap, but, "instead of passing water under or through the dam, water will be siphoned over it."

From December 1938 to June 1939, Memphis District Engineers Noce, Major James D. Andrews Jr., Capt. F.J. Wilson, George C. Ross, and Lt. C.L. Evans designed and installed the Marked Tree Siphons. In addition, A.B. Wood and Wade Barnett of the Sewerage and Water Board of the City of New Orleans served as

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consulting engineers. Constructed in the Memphis District shops under the supervision of Ross, the three, nine foot diameter, 228 feet long, electronically welded steel tubes were among "the largest in the world." At a cost of \$215,000, the siphons were \$72,000 cheaper than a satisfactory culvert. Because of the size of the siphons, there was little existing data on their probable action or effectiveness. According to Andrews, "the hydraulic design became one of a pioneer nature largely based on sound reasoning rather than precedent." At least one engineer expressed reservations about the Corps' reasoning. At a meeting of the Board of Directors of Drainage District Number Seven, L.L. Hidinger, Chief Engineer for the District stated his past experience with siphons had proven they were not satisfactory.

On June 7, 1939, the siphons were placed in operation. On June 8, hundreds of spectators, including engineers from Washington, D.C., and Vicksburg, Mississippi, attended the dedication barbecue and fish fry. As Peggy Wilson, daughter of Capt. Wilson, christened the Marked Tree Siphons with champagne, Curtis Dewey, president of the board of directors of the drainage district, pulled the switch to start the flow. A correspondent for the Marked Tree Tribune who witnessed the dedication incredulously reported: "A whole river was lifted 30 feet across a dam and deposited on the other side." In his address, Noce described the project as the only siphons of their type in the world and as "unique in the annals of engineering."

In July and August 1939, tests of the new siphons proved all reservations about their operation were groundless. The tests, conducted by the Memphis District Office and the U.S. Waterways Experiment Station, revealed the siphons operated 20 percent more efficiently than anticipated. Model tests of the "pioneer" project were not conducted until 1941, by Richard A. Markey Jr. at the Massachusetts Institute of Technology.

Constructed by the Corps of Engineers for Drainage District Number Seven, the siphons have been operated and maintained by the District since 1939. Emphasizing the experimental nature of the siphons, operating and maintenance procedures were never formalized and have been the subject of some controversy. The lock is no longer used. In 1971, its old channel was filled and the levee extended across the lock.

The St. Francis River is no longer navigated by log rafts and steamboats and the original justification for the lock and siphons is no longer valid. In 1983, however, a Corps of Engineers justification report on the repair of the siphons recognized a number of additional benefits provided by their continuance. Because abandonment of the siphons would permanently divert the St. Francis River down its floodway, they provide for preservation of the old channel. The siphons also facilitate control of the St. Francis Lake for

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recreational purposes, such as sport fishing and hunting, and for commercial fishing. They also have a role in flood control, providing some "flood fight capability" in emergency operations for relief of the floodway, and benefit "lake farming" in the floodway, delaying the lake rise and prolonging the short crop season in the affected area.

The Marked Tree Lock and Siphons were essential elements in the St. Francis River Basin Flood Control Project, a major component in the U.S. Army Corps of Engineers flood control plan for the Mississippi River Valley. The Marked Tree Siphons are also a unique engineering achievement and, according to Corps engineers, the only siphons of their type in the United States.

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COCHOIL	1101111001			

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- St. Francis River Project--Marked Tree Siphon: Hypothesis of Design. Corps of Engineers, U.S. Army, U.S. Engineer Office, Memphis, Tenn. 1939.
- Siphon, St. Francis River Project, Marked Tree, Ark., Drainage District No. 7, Poinsett County. Specifications for Construction of Masonry Mork. War Department--Corps of Engineers, U.S. Army, U.S. Engineer Office, Memphis, Tenn. 1938.
- Siphon: St. Francis River Project, Marked Tree, Ark., Drainage
  District No. 7, Poinsett County. Specifications for Hired
  Labor on Pipe Mork. War Department--Corps of Engineers,
  U.S. Army, U.S. Engineer Office, Memphis, Tenn. 1938.
- U.S. Congress. House of Representatives. <u>Flood Control in the Mississippi Valley</u>. House Document No. 90. 70th Cong., 1st sess. 1928.
- U.S. Congress. Senate. Committee on Commerce. Report on the Mississippi River Floods. Report No. 1433. 55th Cong., 3d sess. 1898.

☐ dates

boundary selection

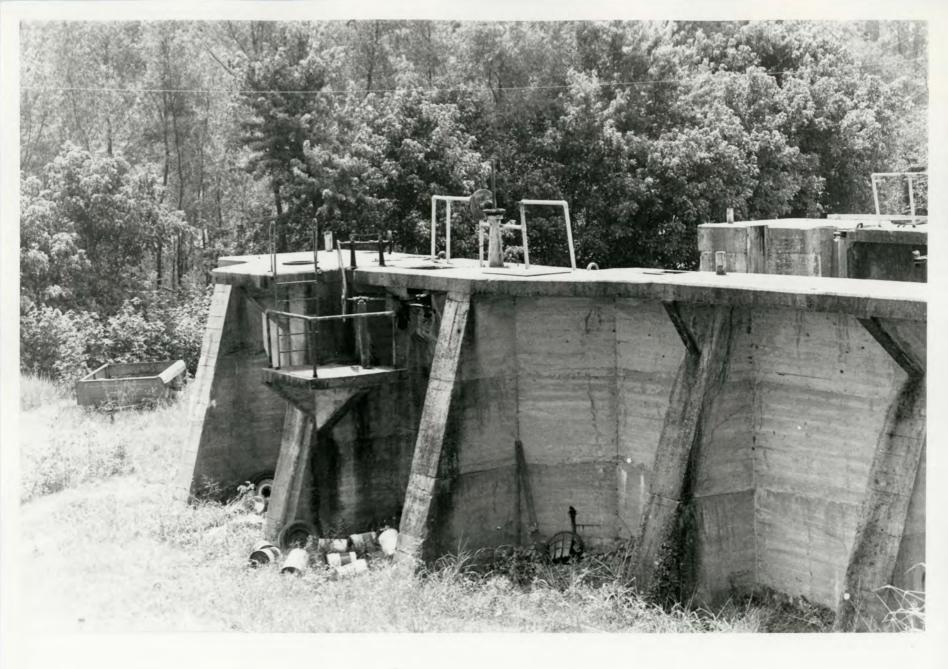
### UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

88000431

## NATIONAL REGISTER OF HISTORIC PLACES EVALUATION/RETURN SHEET

Marked Tree Lock Poinsett County	and Siphons	Substan	tive Review	dgmusneg yremmus
ARKANSAS				Working No
				Fed. Reg. Date:
				Date Due: 44488 - 5/2/88
				Action:ACCEPT 5-2-88
resubmission				RETURN
nomination by pers	on or local government			REJECT
owner objection				Federal Agency:
appeal				/
Substantive Review:	sample	request	appeal	✓ NR decision
Reviewer's comments:				
Property !	is a significantish	cant resour	ce with	Recom./Criteria Accept A. C
evidence	of contribu	tion in eng	reesine.	Reviewer Aschlagel
20000		+ 1:-0	8	Discipline Auf Hist
and wat	er managevi	news wisto	ry.	Date 6/2/88
Property	appears to	be quite	unique	see continuation sheet
Nomination returned fo	r:technical corre	ections cited below	wither u	rates management his rory
		asons discussed below	and with	. 0
			and area	in Corps of Engineers Kistory
1. Name		<u>(</u>	elthough t	bek has been filled in, active
2. Location		(	Juits and	Still wtact and can be seen.
3. Classification		(	roadbed	is not a les come-
Category	Ownership		Status Bull W	Present luse
00.10901 /	Public Acquisiti	on	Accessible 71 160 1	unique prosesto trose (Go
4. Owner of Property			with the	in count! as response to data
			Collection	18sue - N. Mackie)
5. Location of Legal De	escription		Overwh	elining Algrif shown
6. Representation in Ex	cisting Surveys		as pe	J.R. letter cancerning
Has this property been of	determined eligible?	☐ yes ☐ no	lon to	Lan fifty year old pryserve
7. Description				
Condition		Check one		Check one
excellent	deteriorated	unalter unalter	red	original site
good	ruins	altered		moved date
fair	unexposed			
Describe the present and	d original (if known) ph	ysical appearance		
summary paragraph				
completeness				
clarity				
☐ alterations/integrity				

8. Significance			
Period Areas of Significance—Check and just			
Specific dates  Statement of Significance (in one paragraph)	hitect		
	Substantive Review		
summary paragraph	Melant na		Consett County
completeness 8 clarity			
applicable criteria			
iustification of areas checked			
relating significance to the resource			
context			
relationship of integrity to significance			
justification of exception			
other			
9. Major Bibliographical References			
10. Geographical Data			
Acreage of nominated property  Quadrangle name	or - Paul TOO - August men		
UTM References			
Verbal boundary description and justification			
11. Form Prepared By		codenace	
12. State Historic Preservation Officer Certifica	ation		
The evaluated significance of this property with			
national state	local		
State Historic Preservation Officer signature			
title date			
13. Other			
Mana			
☐ Maps ☐ Photographs			
Other			
Questions concerning this nomination may be o	directed to	za Intale y čig Enovojeci Niji Sanijal sa	Decartos are adicado.
Signed	Date	Phone:	
		1110110.	



Marked Tree Lock
vic. Marked Tree, Poinsett Country
Photographed by Michael Swanda
August 1986
Negatives on file at AHPP
West elevation, detail



Marked Tree Lock

Vic Marked Tree, Poinsett Country

Photographed by Michael Swanda

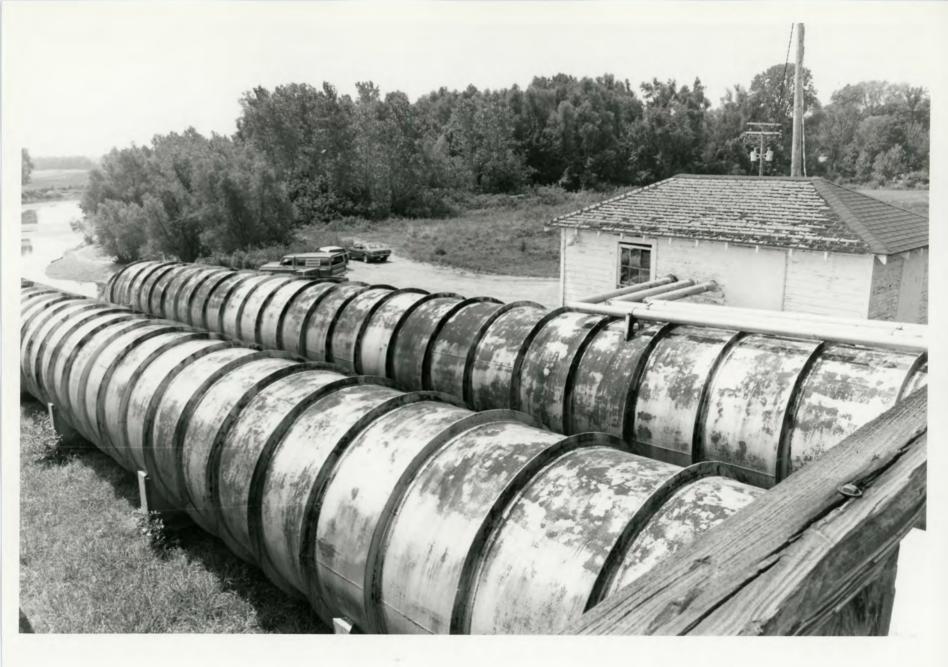
August 1986

Negatives on file at AHPP

Operating House, North elevation



Marked Tree Siphons
vic. Marked Tree, Poinsett County
Photographed by Michael Swanda
August 1986
Negatives on file at AHPP
South elevation



Marked Tree Siphons
vic. Marked Tree, Poinsett County
Photographed by Michael Swanda
August 1986
Negatives on file at AHPP
East elevation



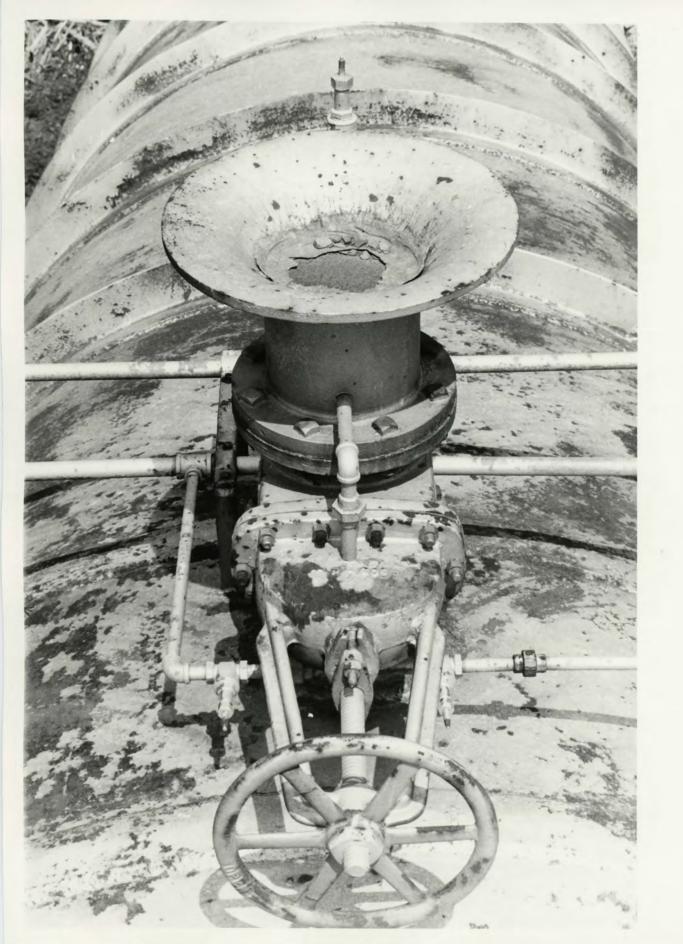
Marked Tree Siphons
vic. Marked Tree, Poinsett County
Photographed by Michael Swanda
August 1986
Negatives on file at AHPP
Bridge and Operating House, detail



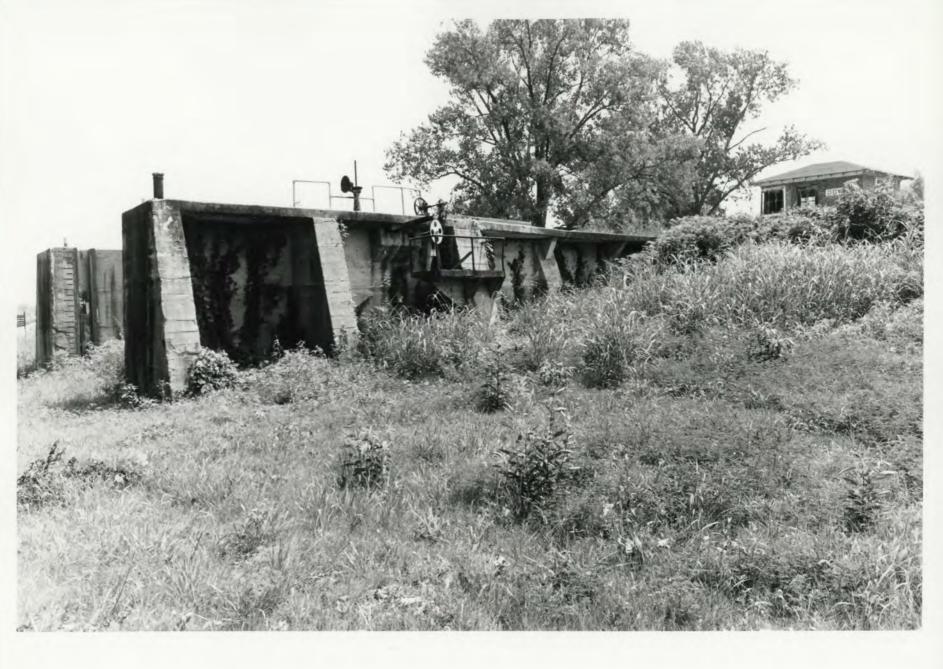
Marked Tree Siphons
vic. Morked Tree, Poinsett County
Photographed by Michael Swanda
August 1986
Negatives on file at AHPP
West elevation



Marked Tree Sphons
vic. Marked Tree, Poinsett Country
Photographed by Michael Swanda
August 1986
Negatives on file at AHPP
Intake basin, detail



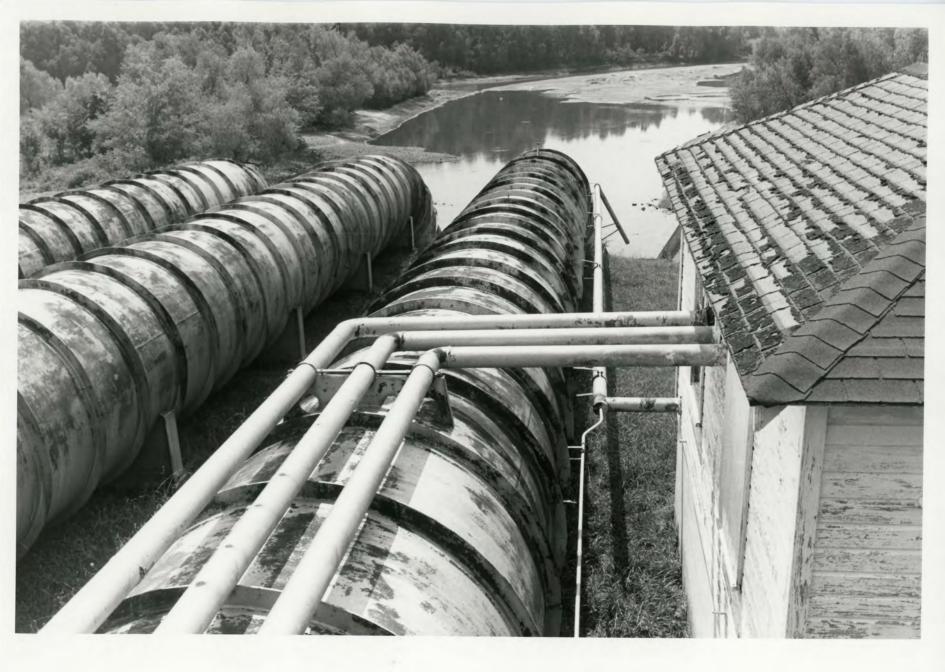
Marked Tree Siphons
vic. Marked Tree, Poinsett County
Photographed by Michael Swanda
August 1986
Negatives on file at AHPP
Vacuum pump, detail



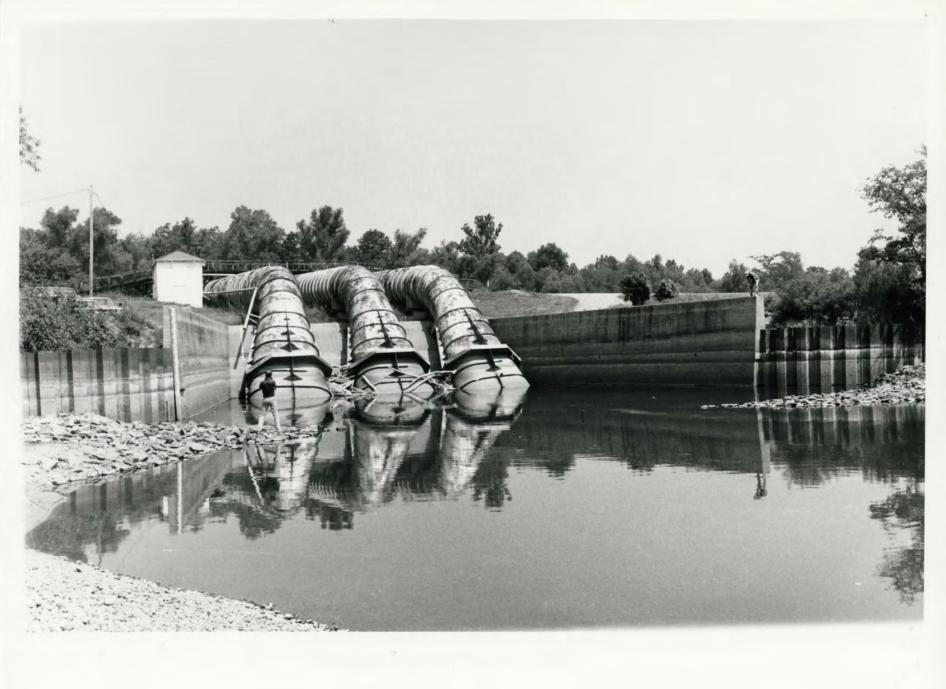
Marked Tree Lock
vic Marked Tree, Poinsett County
Photographed by Michael Swanda
August 1986
Negatives on file At AHPP
West elevation



Marked Tree Siphons
vic. Marked Tree, Poinsett County
Photographed by Michael Swanda
August 1986
Negatives on file at AHPP
Intake basin, detail



Marked Tree Siphons
Vic. Marked Tree, Poinsett County
Photographed by Michael Swanda
August 1986
Negatives on File at AHPP
Vacuum pipes, detail



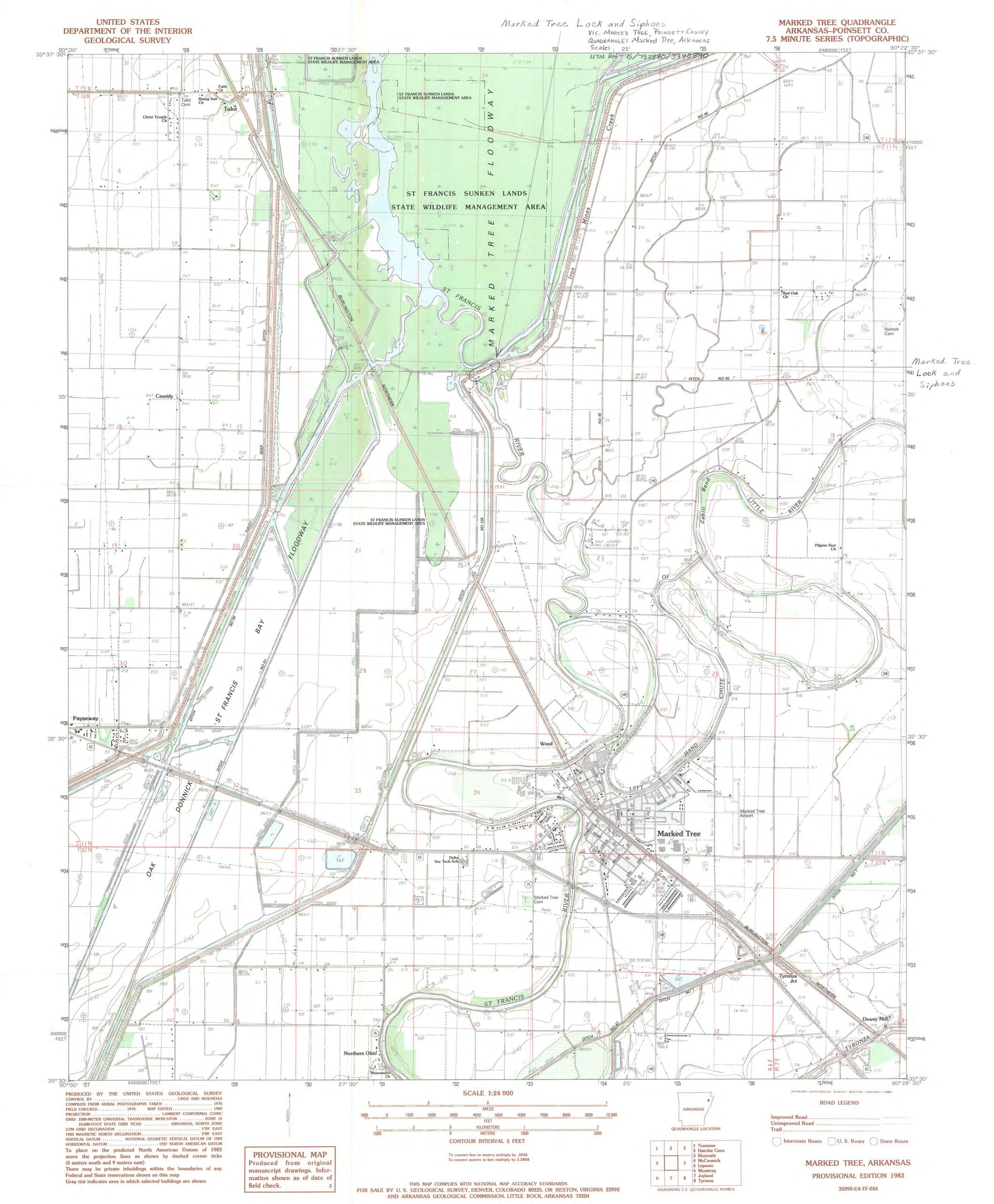
Marked Tree Siphons
vic. Marked Tree, Poinsett County
Photographed by Michael Swanda
August 1986
Negatives on file at AHPP
South elevation

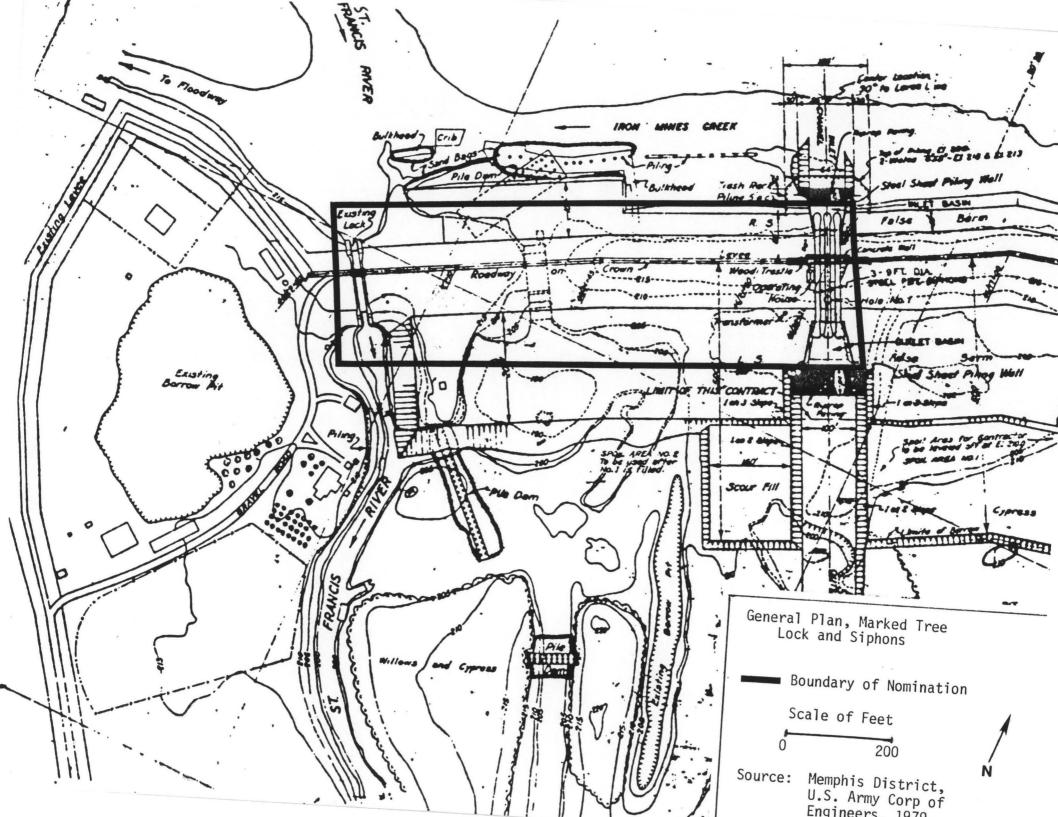


Marked Tree Siphons
vic. Marked Tree, Poinsett County
Photographed by Michael Swanda
August 1986
Negatives on-Tile At AHPP
West elevation



Marked Tree Lock Vic. Marked Tree, Poinsett County Photographed by Michael Swanda August 1986 Negatives on file at AHPP East elevation





Marked Tree Lock and Sluiceway Co. ĆŌ. POINSETT 2 23 31 20 72 23 17 GREENFIELD 36 . NO. DAMS 11. NO 20 22 25 27 25 HIGHWAY N 231 36 73 NO. 11 NO. 8 . NO. 39 . 0 12 NO. 38 NO 23 MO. MAP OF NO.4 DRAINAGE DISTRICT NO 7 32 POINSETT POINSETT COUNTY, ARK. CROSS BAY MORGAN ENGINEERING CO CO. MEMPHIS, TENN. REVISED 1943 N " SS 7 DRAINAGE DITCHES DITCHES, OTHER DISTRICTS\_ COUNTY LINES TOWNSHIP & RANGE LINES \_\_\_\_ -SECTION LINES LEVEES III. 21 24 HIGHWAYS & ROADS RAIL-ROADS DISTRICT BOUNDARY LINE MET WHEN BIRDEYE 27 TEAM DITCHES Scale 2 Miles



ARKANSAS HISTORIC PRESERVATION PROGRAM

March 11, 1988

Carol D. Shull
Chief of Registration
United States Department of the Interior
National Register of Historic Places
National Park Service
1100 "L" Street, N.W.
Washington, D.C. 20240

RE: Marked Tree Lock and Siphons vic. Marked Tree, Poinsett County

Dear Carol:

We are enclosing for your review the nomination for the Marked Tree Lock and Siphons. The Arkansas Historic Preservation Program has complied with all applicable nominating procedures and notification requirements in the nomination process.

Thank you for your consideration in this matter.

Sincerely,

Cathy Butord

State Historic Preservation Officer

CB/TJ/bjm

**Enclosures** 



Suite 200 • Heritage Center • 225 East Markham • Little Rock, Arkansas 72201 • Phone (501) 371-2763