Form No. 10-300 (Rev. 10-74)

UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES INVENTORY -- NOMINATION FORM

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SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS

NAME HISTORIC Espada Aqueduct and Acequia AND/OR COMMON Espada Aqueduct and Acequia 2 LOCATION Espada Road, just east of U.S. 281S STREET & NUMBER NOT FOR PUBLICATION CITY, TOWN CONGRESSIONAL DISTRICT San Antonio X VICINITY OF えりオ CODE COUNTY CODE STATE Texas 48 Bexar 029 **3 CLASSIFICATION** CATEGORY **OWNERSHIP** STATUS PRESENT USE __DISTRICT X_OCCUPIED XAGRICULTUREMUSEUM BUILDING(S) PRIVATE __UNOCCUPIED __COMMERCIAL ___PARK X STRUCTURE X_{BOTH} __WORK IN PROGRESS __EDUCATIONAL -PRIVATE RESIDENCE __SITE PUBLIC ACQUISITION ACCESSIBLE ___ENTERTAINMENT ___RELIGIOUS __OBJECT __IN PROCESS __YES: RESTRICTED ___GOVERNMENT __SCIENTIFIC __BEING CONSIDERED X YES: UNRESTRICTEDINDUSTRIAL -TRANSPORTATIONMILITARY __NO -OTHER: **OWNER OF PROPERTY** San Antonio Conservation Society NAME STREET & NUMBER 511 Paseo de la Villita CITY, TOWN STATE VICINITY OF San Antonio Texas LOCATION OF LEGAL DESCRIPTION Bexar County Courthouse COURTHOUSE, REGISTRY OF DEEDS. ETC. STREET & NUMBER South Main Street, 1 block south of Commerce Street CITY, TOWN STATE San Antonio Texas **REPRESENTATION IN EXISTING SURVEYS** TITLE Historic American Engineering Record DATE 1973 X_FEDERAL __STATE __COUNTY __LOCAL DEPOSITORY FOR SURVEY RECORDS Historic American Engineering Record, National Park Service CITY, TOWN STATE Washington D.C.

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THEME: priculture



CONDITION

EXCELLENT	DETERIORATED
<u>x</u> good	RUINS
FAIR	UNEXPOSED



CHECK ONE

CHECK ONE

XORIGINAL SITE

DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

The Espada Dam diverts water into the Espada Acequia at a point on the west side of the San Antonio River in the Mission Burial Park, about six miles downstream from the San Antonio business district. The dam has an overall length of approximately 160 feet with a height varying from 6.6 to 8.2 feet. The crest of the dam averages two feet in width, with a bottom width varying from twenty to forty feet. It is composed of flagstone layers placed on a natural ledge across the river. The shape of the dam is unusual, pointing downstream instead of upstream as would a modern archgravity dam. The stones have been gradually cemented together by the lime salts of the river water, explaining in part the permanence of the structure.

As originally constructed, the Espada Acequia flowed south from its diversion point across Palo Blanco and Piedras Creeks, passing the Espada Mission on the west. The ditch continued southward to join La Minita Creek, which in turn flowed into the San Antonio River. A smaller acequia, coming directly from the River, ran past the north and west walls of the Espada compound.

The most striking structure on the Espada system is clearly the Espada Aqueduct. Probably built sometime between 1731 and 1745, the sturdy masonry aqueduct continues to carry Espada Acequia water across Piedras Creek, about a mile north of Espada Mission. Two cut stone arches, one 12 feet and the other 16.5 feet in diameter, support the structure. Over the arches and over the abutments at each end, the aqueduct stretches a total of 195 feet. It stands 15.5 feet high at the point where it crosses the creek. Like the Espada Dam, the aqueduct has become cemented together by the lime salts in the water. The mass of the aqueduct was so solid that when its lower section between the arches had become detached from the foundation by erosion, the entire structure remained in position. The aqueduct has withstood the forces of severe floods on Piedras Creek.

The Espada Acequia operated regularly until the 1880's, at which time it fell idle. Then, in 1895, the owners of the water rights along the ditch organized a private company to utilize the irrigation potential of the old acequia. They cleaned, widened, and deepened the ditch, repaired the diversion dam, and made some changes in the course of the canal. At the conclusion of their work, the Espada Acequia had a grade of 18 inches per mile, carried 10 cubic feet per second of water, and irrigated approximately 400 acres of mixed agricultural land. At the end of the last century, farmers on the Espada system were able to grow an average of one bale of cotton per acre, while farmers in the same vicinity who were without irrigation water grew only one-fourth as much. Truck farmers raised all kinds of vegetables "in the greatest profusion" on Espada lands from early spring until first frost.



___ARCHEOLOGY-PREHISTORIC

__ARCHEOLOGY-HISTORIC

XAGRICULTURE

__ARCHITECTURE

__COMMUNICATIONS

___COMMERCE

PERIOD

.....1400-1499

__1500-1599

__1600-1699

X1700-1799

__1800-1899

__1900-

2

__PREHISTORIC





__LANDSCAPE ARCHITECTURE

--- POLITICS/GOVERNMENT

RE	116	ION

- __SCIENCE
- __SCULPTURE
- __SOCIAL/HUMANITARIAN
- ___THEATER
- ___TRANSPORTATION
-OTHER (SPECIFY)

SPECIFIC DATES 1731-1745

__ART

BUILDER/ARCHITECT

AREAS OF SIGNIFICANCE -- CHECK AND JUSTIFY BELOW

__LAW

__LITERATURE

___MILITARY

__MUSIC

__COMMUNITY PLANNING

XEXPLORATION/SETTLEMENT

___CONSERVATION

.....ECONOMICS

FDUCATION

INDUSTRY

INVENTION

XENGINEERING

STATEMENT OF SIGNIFICANCE

The acequias of San Antonio, constructed during the 18th century, represent the most extensive efforts to supply water by the Spanish in Texas. The Newfound engineering principals in the design and construction of diversion dams, canals, and aqueducts gave great efficiency to the system, making the San Antonio area prosperous. The Espada Acequia, constructed between 1731 and 1745 is still in use today, and is one of the best preserved examples of a Spanish acequia. Both the Espada Dam and Aqueduct are also still in operation. The Aqueduct itself is of unique historical significance for it is the only Spanish structure of its type remaining in the United States. Together with the dam and five-mile long acequia this irrigation work illustrates the importanttrole of the Spanish missions in the agricultural history of the Southwest.

HISTORY

The third mission to be moved from East Texas to San Antonio was San Francisco de los Neches, which, in its new site, was renamed San Francisco de la Espada. This mission was located on the west side of the San Antonio River, opposite Mission San Juan. Work began on an acequia at Espada soon after the transfer of the mission to San Antonio.

The course of the Espada Acequia required that its water be transported across Piedras Creek by an aqueduct. It is uncertain when the present aqueduct was built. Less durable aqueducts, consisting of hollowed logs called canoas were used in the early canal systems to span gullies and other canals. Most.local historians choose the years between 1740 and Fray Ortiz's visit in 1745 as the probable period for construction. Fray Alto Sebastian Hoermann while serving at nearby Mission San Jose in the 1860's related that the section between the arches had become detached from the foundation, but because of its strength the aqueduct had remained standing.

Use of the Espada Acequia was discontinued in the 1880's, but in 1895 the Espada Ditch Company was organized by A. Y. Walton, Jr., who owned several suertes of land along the acequia, to reactivate the system. The company cleaned, widened, and deepened the ditch and repaired its original diversion dam. It continues to operate the acequia at the present time. The aqueduct and a section of the canal are preserved within Acequia Park.

9 MAJOR BIBLIOG PHICAL REFERENCES

(See Continuance Sheet)

GEOGRAPHICAL DATA	ł		
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UTM REFERENCES			
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(See Continuance Sheet)			
No. S. S. San			
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FORM PREPARED BY NAME / TITLE Patricia Heintzelman, Arch ORGANIZATION			DATE
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CONTINUATION SHEET ITEM NUMBER 7 PAGE 2

Today the Espada Acequia is approximately four miles long, with an average bottom width of 5 1/2 feet. Its grade is now approximately 23 inches per mile, a slight increase over the 18 inches per mile reported at the end of the last century. This increase may be attributed to the shortening of the section above the aqueduct at least twice in this century. The present flow is approximately 12 cubic feet per second.

The Conservation Society of San Antonio maintains Acequia Park, which contains the Espada Dam and much of the Espada Canal. The Society also maintains ten acres of land containing the old aqueduct. The portion of the river crossed by the Espada Dam was bypassed by a new flood control channel, in an effort to preserve the historic structure and to sustain the water level behind the dam in the Espada Acequia. Unfortunately, the same project caused increased flooding of the aqueduct, which is now severely threatened.



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ITEM NUMBER 9 PAGE 1

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CONTINUATION SHEET

ITEM NUMBER 10 PAGE 1

The landmark boundary has been drawn to include the Espada Dam, Aqueduct, and Acequia system as well as the Mission San Francisco de la Espada, with which the acequia is intimately connected historically. The Espada System can be seen outlined in red on the enclosed platt maps, sheets 2 & 3 of HAER TX-1, the Acequias of San Antonio, 1973. Beginning at the point where the old river diverges from the flood control canal and going west in a straight line to Mission Road, then south along the east edge of Mission Road to Espada Mission Road, continuing south on Espada Road to its intersection with Chavaneaux Road, then continuing south parallel to the Espada Acequia at a distance of 500 feet to its intersection with Minita Creek, then east 500 feet parallel to the south of the Creek to its intersection with the San Antonio River, then north along the far bank of the San Antonio River continuing around the flood diversion ditch to a point in line with the beginning, then west to that point of beginning.