

HABS/HAER INVENTORY

See "HABS/HAER Inventory Guidelines" before filling out this card.

1. NAME(S) OF STRUCTURE

St. Joseph Bridge (Little Colorado River Bridge)

ADOT: 8157

3. DATE(S) OF CONSTRUCTION

1916-17

2. LOCATION

Joseph City-Holbrook Road over Little Colorado River
4.4 miles southeast of Joseph City; SE1/4 S21 T18N R19E
Navajo County, Arizona

4. USE (ORIGINAL/CURRENT)

roadway bridge / roadway bridge

6. RATING

NRHP eligible: local significance

5. CONDITION

good; sufficiency rating: 21.3

owner: Navajo County

span number : 6
span length : 83.0'
total length: 500.0'
roadway wdt.: 12.6'

superstructure: riveted steel, 4-panel Pratt pony truss w/ outriders
substructure : concrete abutments, wingwalls and corrugated steel piers w/ concrete caps
floor/decking : asphalt wheel tracks over timber deck
other features: upper chord: 2 channels w/ cover plate and webbing; lower chord, vertical and diagonal: 2 angles w/ batten plates; floor beam: I beam, lateral bracing: 1 angle; steel lattice guardrails.

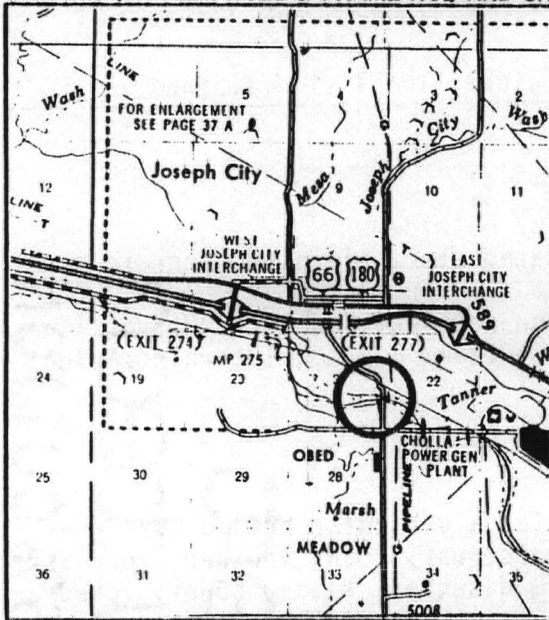
In April 1912, a citizens' group petitioned the Navajo County Board of Supervisors for a vehicular bridge over the Little Colorado River at St. Joseph. Typically, the board deferred the matter. In February 1915, another group asked for the bridge, but the board again deferred. Finally, in the wake of the Lyman Dam disaster, Navajo County voted a \$63,000 bond issue in January 1916 to finance construction of seven bridges, including the St. Joseph Bridge. In June, the board advertised for bids for their construction, receiving proposals and designs from 8 bridge companies the following month. Nebraska-based Omaha Structural Steel Works was awarded the contract for the St. Joseph Bridge and five other smaller structures for \$36,863. For this crossing, Omaha engineered a series of riveted pony trusses with steel stringers, timber deck, concrete-filled steel cylinder piers and timber pile approaches. Using steel rolled by Illinois and Ladkawanna, Omaha fabricated the medium-span trusses and erected them the following spring. The St. Joseph Bridge was complete by June 1917. It has functioned as a county bridge since.

Before creation of the Arizona Territorial Engineer in 1909, vehicular bridges were built either by the counties or by private entities such as toll road operators. Following passage of the Federal Highways Act in 1916, the Arizona Highway Department began the standardization of bridge design and construction throughout the state. But in the early years, bridge building was still primarily a county function. The St. Joseph Bridge is one of the larger scale county-built structures in Arizona - designed, fabricated and erected under contract by a national bridge company. The bridge is significant as one of the few multi-span trusses remaining in the state. One of four riveted Pratt pony trusses identified in the inventory, it is further distinguished as the vehicular bridge with the greatest number of pony truss spans in the state. Although its substructural replacement has diminished its integrity somewhat, the St. Joseph Bridge remains an important early example of truss construction.

10. NAME(S) OF STRUCTURE

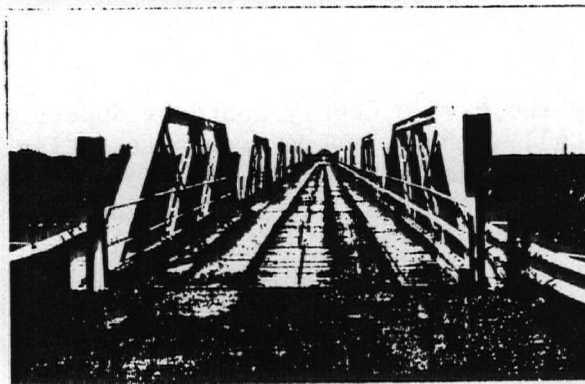
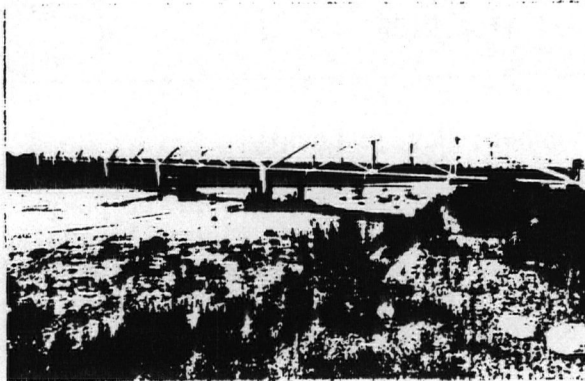
St. Joseph Bridge; (Little Colorado River Bridge)

11. PHOTOS (W/ FILM ROLL & FRAME NO.) AND SKETCH MAP OF LOCATION



LOCATION MAP

TAKEN FROM DEPARTMENT OF TRANSPORTATION
GENERAL HIGHWAY MAP



Bridge Record, Arizona City Streets and County Roads: 8157; Structures Section, Arizona Department of Transportation, Phoenix AZ.

Proceedings of the Navajo County Board of Supervisors: 1 April 1912 (Book 3, page 308); 16 February 1915 (Book 4, page 18); 1 November 1915 (Book 4, page 112); 5 January 1916 (Book 4, pages 140-41); 24 January 1916 (Book 4, pages 184-87); 6 April 1916 (Book 4, pages 205-08); 6 June 1916 (Book 4, page 245); 3 July 1916 (Book 4, page 253); 9 August 1916 (Book 4, pages 279-83); 3 October 1916 (Book 4, page 306); 2 April 1917 (Book 5, page 2); 6 June 1917 (Book 5, page 19); 5 March 1917 (Book 4, page 417); 6 February 1917 (Book 4, page 362).

Field inspection by Clayton Fraser, 8 October 1986.

13. INVENTORIED BY:

Clayton B. Fraser

AFFILIATION

Fraserdesign

DATE

1 April 1987

8/17/88

United States Department of the Interior
National Park ServiceNational Register of Historic Places
Continuation Sheet

Section number _____ Page _____

Multiple Resource Area
Thematic GroupName Vehicular Bridges in Arizona MPS
State Apache County and others, ARIZONA

Nomination/Type of Review

Date/Signature

41. Corduroy Creek Bridge *Substantive Review* for Keeper Patrick Andrus 9/30/88 *SCM*
Attest _____
42. Holbrook Bridge *Substantive Review* for Keeper Patrick Andrus 9/30/88 *SCM*
Holbrook Attest _____
43. Holbrook Bridge *Substantive Review* for Keeper Bruce J. Noble, Jr. 3/31/89
Holbrook vic. Attest _____
44. Jack's Canyon Bridge *Substantive Review* for Keeper Patrick Andrus 9/30/88 *SCM*
Attest _____
45. Lithodendron Wash Bridge *Substantive Review* for Keeper Patrick Andrus 9/30/88 *SCM*
Attest _____
46. Little Lithodendron Wash Bridge *Substantive Review* for Keeper Patrick Andrus 9/30/88 *SCM*
Attest _____
47. St. Joseph Bridge *Substantive Review* for Keeper Patrick Andrus 9/30/88 *SCM*
Attest _____
48. Winslow ^{BRIDGE} Underpass *Substantive Review* for Keeper Bruce J. Noble, Jr. 3/31/89
Attest _____
49. Winslow Underpass *Substantive Review* for Keeper Patrick Andrus 9/30/88
Attest _____
50. Woodruff Bridge *Substantive Review* for Keeper Patrick Andrus 9/30/88 *SCM*
Attest _____

United States Department of the Interior
National Park ServiceNational Register of Historic Places
Continuation Sheet

Section number _____ Page _____

SUPPLEMENTARY LISTING RECORD

NRIS Reference Number: VariousDate Listed: 9/30/88Various
Property NameVarious
CountyArizona
StateVehicular Bridges in Arizona
Multiple Name

This property is listed in the National Register of Historic Places in accordance with the attached nomination documentation subject to the following exceptions, exclusions, or amendments, notwithstanding the National Park Service certification included in the nomination documentation.

for Patrick Andrews
Signature of the Keeper

9/30/88
Date of Action

=====

Amended Items in Nomination:

There were several nominations included with this multiple property submission which defined and justified periods of significance extending into the less than fifty year old range to correspond with criterion A significance although the resources' dates of construction actually occurred well over fifty years ago. For all of these bridges, the period of significance should be concluded in 1938 to conform with National Register requirements. The following bridges are included in this category:

Petrified Forest, Querino, Hereford, Douglas Underpass, Dead Indian Canyon, Pumphouse Wash, Walnut Canyon, Fossil Creek, Black River, Salt River, Salt River Canyon, Reppy Avenue, Black Gap, Gila River, Park Avenue, Solomonville Road Overpass, Solomonville Road Overpass (Clifton), Gila Bend Overpass, Hassayampa River, Lewis and Pranty Creek, Mormon Flat, Fish Creek, Pine Creek, Sand Hollow Wash, Old Trails, Corduroy, Cedar Canyon, Holbrook, Jack's Canyon, Little Lithodendron Wash, Lithodendron Wash, St. Joseph, Woodruff, Cienega, Fourth Avenue Underpass, Sixth Avenue Underpass, Stone Avenue Underpass, Alchesay Canyon, Devil's Canyon, Queen Creek (Florence Junction vicinity), Queen Creek (Superior vicinity), Kelvin, Mineral Creek, Sacaton Dam, San Tan Canal, Winkelman, Santa Cruz No. 1, Broadway, Hell Canyon, Little Hell Canyon, Lynx Creek, Verde River, and Walnut Grove. (Period of significance issues discussed with Pat Stein of the AZ SHPO.)

DISTRIBUTION:

National Register property file
Nominating Authority (without nomination attachment)

UNITED STATES DEPARTMENT OF THE INTERIOR
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES
EVALUATION/RETURN SHEET

REQUESTED ACTION: NOMINATION

PROPERTY NAME: St. Joseph Bridge

MULTIPLE NAME: Vehicular Bridges in Arizona MPS

STATE & COUNTY: ARIZONA, Navajo

DATE RECEIVED: 8/17/88

DATE OF PENDING LIST: 8/30/88

DATE OF 16TH DAY: 9/15/88

DATE OF 45TH DAY: 10/01/88

DATE OF WEEKLY LIST:

REFERENCE NUMBER: 88001633

NOMINATOR: STATE

REASONS FOR REVIEW:

APPEAL: N DATA PROBLEM: Y LANDSCAPE: N LESS THAN 50 YEARS: Y
OTHER: N PDIL: N PERIOD: Y PROGRAM UNAPPROVED: N
REQUEST: N SAMPLE: N SLR DRAFT: N

COMMENT WAIVER: N

☒ ACCEPT ☐ RETURN ☐ REJECT 9/30/88 DATE

ABSTRACT/SUMMARY COMMENTS:

ABSTRACT/SUMMARY COMMENTS (CONTINUED FROM PREVIOUS SIDE)

Significance justified under A & C. SLR form
completed to resolve period of significance issue.

Decision: Accept - A, C
Date: 9/30/88
Signature: Noble
Title: Historian

DOCUMENTATION see attached comments Y/N see attached SLR Y/N

CLASSIFICATION

____count ____resource type

STATE/FEDERAL AGENCY CERTIFICATION

FUNCTION

____historic ____current

DESCRIPTION

____architectural classification ____materials ____descriptive text

SIGNIFICANCE

____criteria ____criteria considerations ____areas of sig.
____periods of sig. ____significant dates ____cultural affl.
____sig. person ____architect/builder ____sig. statement

BIBLIOGRAPHY

GEOGRAPHICAL DATA

____acreage ____verbal boundary description
____UTMs ____boundary justification

ACCOMPANYING DOCUMENTATION/PRESENTATION

____sketch maps ____USGS maps ____photographs ____presentation

OTHER COMMENTS

Questions concerning the nomination may be directed to

Signed _____ Date _____ Phone _____



38) 8157 ST. JOSEPH BRIDGE (ARIZONA VEHICULAR BRIDGE)

5191

