

United States Department of the Interior
National Park Service

National Register of Historic Places
Continuation Sheet

Section number _____ Page _____

SUPPLEMENTARY LISTING RECORD

NRIS Reference Number: Various Date Listed: 9/30/88

Various Various Arizona
Property Name County State

Vehicle 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 9/30/88
Signature of the Keeper Date of Action

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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, Pumhouse 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)

HABS/HAER INVENTORY

1649

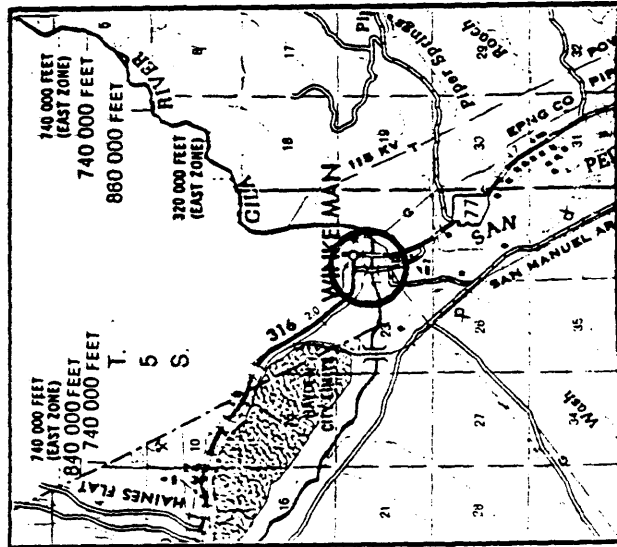
See "HABS/HAER Inventory Guidelines" before filling out this card.

1. NAME(S) OF STRUCTURE Winkelman Bridge (Gila River Bridge #1)		ADOT: 8442
2. LOCATION Old State Road 77 over the Gila River Winkelman; NW1/4 S24 T5S R15E Pinal County, Arizona		3. DATE(S) OF CONSTRUCTION 1916
9. CONDITION fair; sufficiency rating: 36.9 owner: Pinal County		4. USE (ORIGINAL/CURRENT) roadway bridge / roadway bridge 6. RATING NRHP eligible: local significance
7. DESCRIPTION span number : 4 span length : 106.0' total length: 419.0' roadway wdt.: 18.0' superstructure: reinforced concrete Luten arch w/ cantilevered roadway substructure : concrete abutments, wingwalls and piers on driven piles floor/decking : asphalt over concrete deck w/ earth fill other features: moulded concrete guardrails w/ turned concrete balusters and paneled bulkheads; plain, tapered cantilevered brackets		
8. HISTORICAL DATA After two years of local agitation, the Pinal County Board of Supervisors finally appropriated \$52,000 from a \$500,000 bond issue early in 1915 to build bridges in the small towns of Kelvin and Winkelman on the Superior-Mammoth Road. (Winkelman was situated on the county line, and Gila County agreed to pay half of its construction cost.) At the advice of Assistant State Engineer T.M. Nichols, the two Gila River structures would use multi-span arches with cantilevered roadways, to be designed by Daniel Luten. In August, R.V. Leeson, assistant engineer for the National Bridge Company, completed the drawings. A month later, the county's bid solicitation was answered by two Kansas-based bridge companies: the Missouri Valley Bridge and Iron Company and the Topeka Bridge and Iron Company. Unsurprisingly, Topeka was low bidder at \$43,995 and received the contract. The contractors began work soon thereafter on the Winkelman Bridge and, despite delays caused by flooding on the Gila, completed the structure late in November 1916. Since construction of State Route 177, the Winkelman Bridge carries only local traffic.		
9. SIGNIFICANCE Although secondary to the Mesa-Florence-Tucson Highway (U.S. 89) as a southern Arizona route, the Superior-Mammoth Road functioned for decades as a locally important route in Pinal County. The Winkelman and Kelvin bridges are historically significant as early remnants of that route. Technologically, the two are important for their representation of an important structural type used on vehicular spans: the Luten arch. Because of their relatively high construction cost, multi-span Luten arches were infrequently constructed. Four are known to have been built in Arizona: the Winkelman and Kelvin bridges, a bridge over the Agua Fria River at Marinette in Maricopa County and a bridge over the Verde River at Camp Verde in Yavapai County. The latter two have since been razed, leaving the Winkelman and Kelvin structures as the only multi-span examples among the thirteen remaining Luten arches identified in the state.		

10. NAME(S) OF STRUCTURE

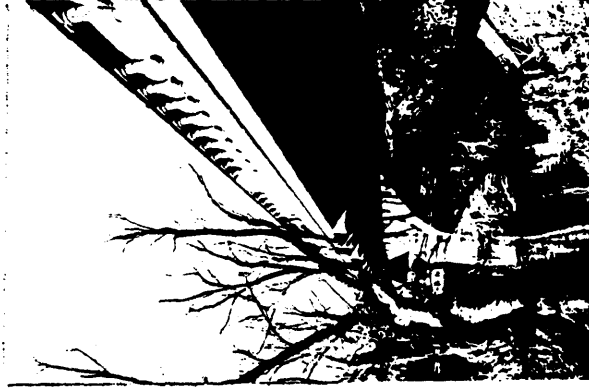
Winkelman Bridge (Gila River Bridge #1)

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: 8442; Structures Section, Arizona Department of Transportation, Phoenix AZ.

Proceedings of the Pinal County Board of Supervisors: 17 August 1915; 7 September 1915; 16 October 1915; 20 September 1916; 5 December 1916; 7 March 1917; 8 January 1918.

(Florence) Arizona Blade-Tribune: 24 July 1915, 21 August 1915; Winkelman Times, n.d.

Field inspection by Clayton Fraser, 22 February 1987.

13. INVENTORIED BY:

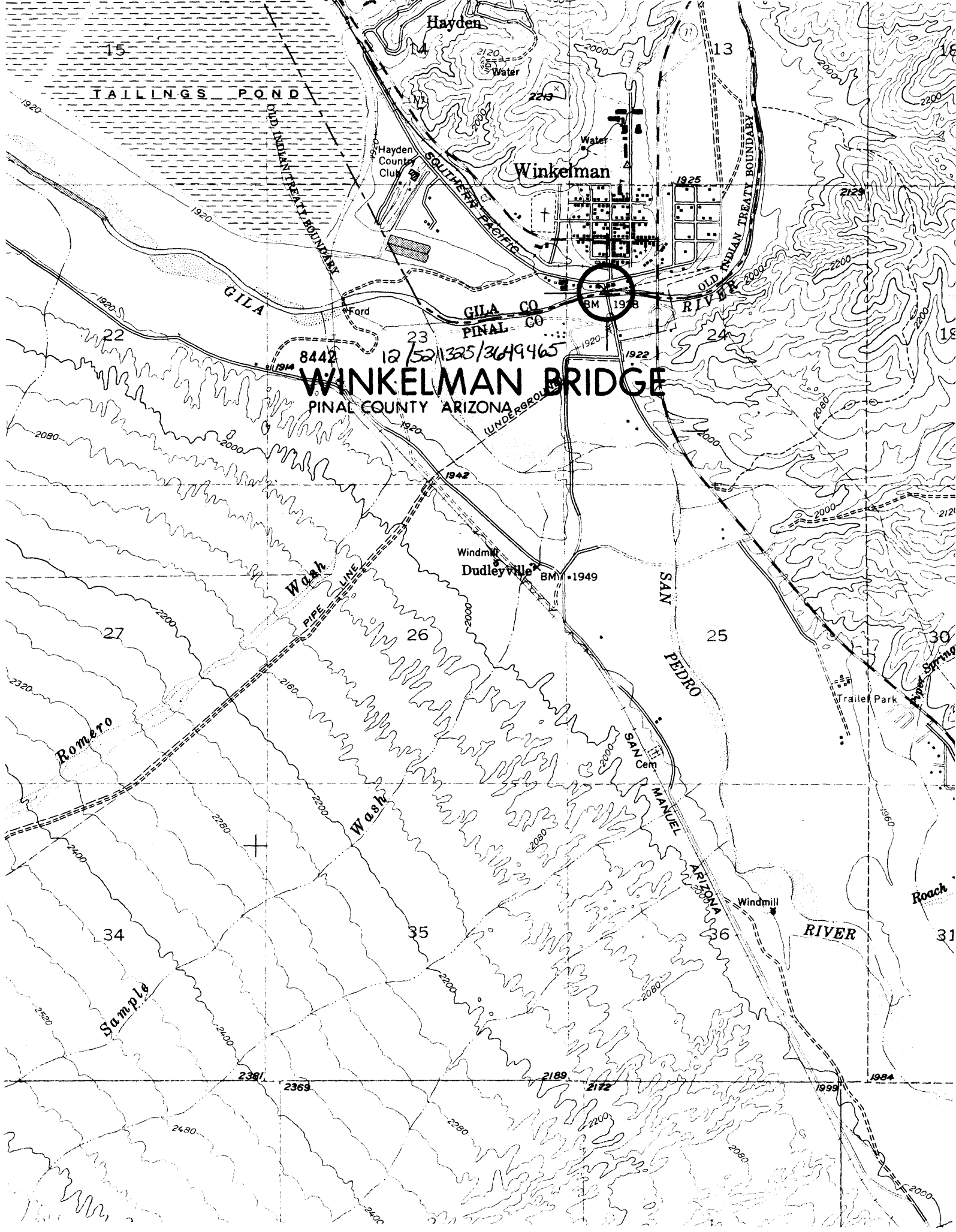
Clayton B. Fraser

AFFILIATION

Fraserdesign Loveland Colorado

DATE

1 April 1987



TAILINGS POND

Hayden

Winkelman

WINKELMAN BRIDGE
PINAL COUNTY ARIZONA

8442
12/52/1325/3649465

Windmill
Dudleyville

Romero

Sample

Roach

15

14

13

18

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GILA CO
PINAL CO

SAN PEDRO RIVER

SAN MANUEL ARIZONA

RIVER

OLD INDIAN TREATY BOUNDARY

OLD INDIAN TREATY BOUNDARY

WASH PIPE LINE

WASH PIPE LINE

GILA RIVER

GILA RIVER

GILA RIVER

Trail Park

Windmill

BM 1949

BM 1918

2381

2369

2189

2172

1999

1984

2280

2200

2200

2200

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