

# HABS/HAER INVENTORY

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

## 1. NAME(S) OF STRUCTURE

Sanders Bridge (Rio Puerco Bridge)

ADOT: 3074

## 2. LOCATION

Indian Route 9402 over the Puerco River  
Sanders; SW1/4 S13 T21N R28E  
Apache County, Arizona

## 3. DATE(S) OF CONSTRUCTION

1923

## 4. USE (ORIGINAL/CURRENT)

highway bridge / roadway bridge

## 5. RATING

NRHP eligible: local significance

## 6. CONDITION

fair; sufficiency rating: 29.0

owner: U.S. Bureau of Indian Affairs

span number : 2  
span length : 75.0'  
total length: 190.0'  
roadway wdt.: 14.8'

superstructure: riveted steel, 6-panel Pratt pony truss w/ outriders  
substructure : concrete abutments w/ solid concrete piers  
floor/decking : asphalt over timber deck w/ timber stringers  
other features: upper chord: 2 channels w/ cover plate and webbing; lower chord: 2 angles w/ batten plates; vertical: 4 angles w/ continuous plate; diagonal: 2 angles w/ batten plates; lateral bracing: 1 angle; floor beam; I beam; steel angle guardrails

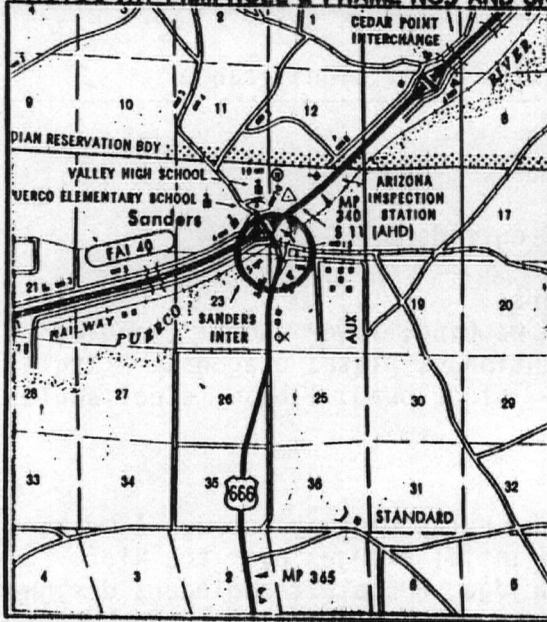
In 1922, the Arizona Highway Department began the major reconstruction of the Holbrook-Lupton Highway between Adamana and the state line. Two critical components of the project were the erection of substantial bridges over the Rio Puerco near the small Indian settlements of Sanders and Allentown. For the Sanders Bridge, AHD staff engineers designed two medium-span pony trusses supported by continuous concrete piers. Timber stringers formed approach spans on both sides. Using money from the state road fund and an Apache County bond issue, AHD let the contracts for the Sanders and Allentown bridges and a small pony truss over Lupton Arroyo at Lupton on January 1, 1923. The Monarch Engineering Company of Denver was awarded the contract for the Sanders Bridge. Monarch began construction of the bridge on May 22, worked through the summer, and, using steel milled by Inland, completed the structure on September 10. Total construction cost: \$15,005. Both the Sanders and Allentown crossings were removed from the highway by another realignment in 1931, and the bridges have since carried local traffic on the Navajo Indian Reservation.

Later designated U.S. Highway 66, the Santa Fe Highway was a major transcontinental route across northern Arizona. Before the construction of this bridge, traffic on the highway often was forced to wait up to 24 hours for the Rio Puerco to subside enough to permit fording. The Sanders Bridge thus formed an important link on a major interstate route. The bridge is further significant as one of the earliest pony trusses built by the State Engineer, erected by a regionally active bridge contractor. Technologically, the Sanders Bridge is a representative and unaltered example of a common vehicular truss configuration: one of three riveted Pratt pony trusses identified in the inventory.

10. NAME(S) OF STRUCTURE

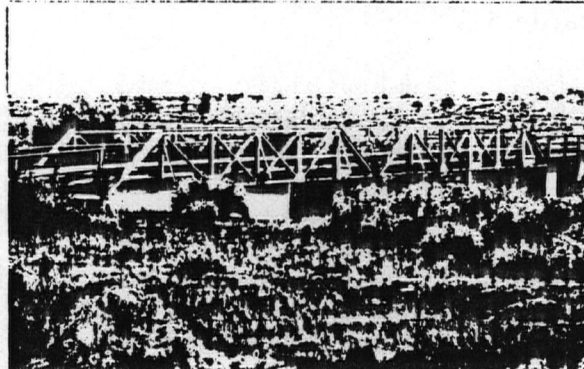
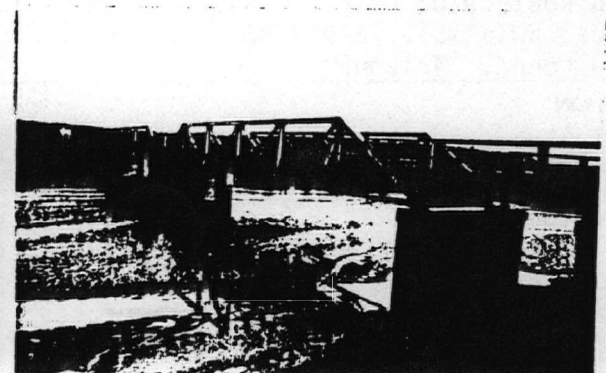
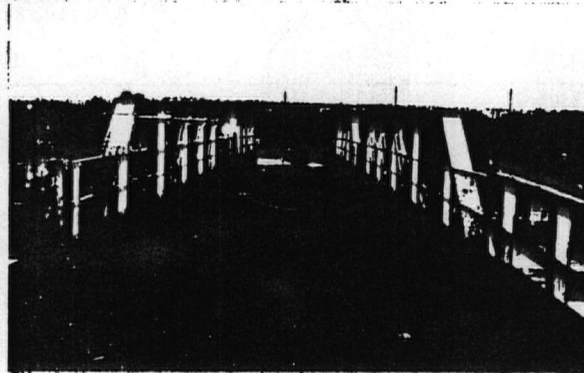
Sanders Bridge

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



LOCATION MAP

TAKEN FROM DEPARTMENT OF TRANSPORTATION  
GENERAL HIGHWAY MAP



Field inspection by Clayton Fraser, 9 October 1986.

Bridge Record, Arizona State Highway System: 3074; Structures Section, Arizona Department of Transportation, Phoenix Arizona.

Fifth Biennial Report of the State Engineer, Arizona, 1920-1922 (n.p., 1922), pages 54, 93-94.

Sixth Biennial Report of the State Engineer, Arizona, 1922-1924 (Phoenix: Manufacturing Stationers, Inc., 1924), pages 145, 166, 172-73.

Seventh Biennial Report of the State Engineer, Arizona, 1924-1926 (Phoenix: Kelly Print, 1926), page 51.

13. INVENTORIED BY:

Clayton B. Fraser

AFFILIATION

Fraserdesign Loveland Colorado

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

Cover		for Keeper	<u>Patrick Andrus</u>	<u>9/30/88</u>
1. <u>Apache County</u>	entered in the	Keeper	<u>William Byers</u>	<u>9/30/88</u>
1. Allentown Bridge	National Register	Attest		
2. Petrified Forest Bridge	Substantive Review	for Keeper	<u>Patrick Andrus</u>	<u>9/30/88</u> <i>SEN</i>
		Attest		
3. Querino Canyon Bridge	Substantive Review	for Keeper	<u>Patrick Andrus</u>	<u>9/30/88</u> <i>SEN</i>
		Attest		
4. <u>Sanders Bridge</u>	Substantive Review	for Keeper	<u>Patrick Andrus</u>	<u>9/30/88</u>
		Attest		
<u>Cochise County</u>	Substantive Review	Keeper	<u>Return</u>	
5. Desert Wash Bridge	Substantive Review	Attest		
6. Douglas Underpass	Substantive Review	for Keeper	<u>Patrick Andrus</u>	<u>9/30/88</u> <i>SEN</i>
		Attest		
7. Hereford Bridge	Substantive Review	for Keeper	<u>Patrick Andrus</u>	<u>9/30/88</u> <i>SEN</i>
		Attest		
<u>Coconino County</u>	Substantive Review	for Keeper	<u>Patrick Andrus</u>	<u>9/30/88</u>
8. Canyon Diablo Bridge		Attest		
	Entered in the	Keeper	<u>William Byers</u>	<u>9/30/88</u>
9. Canyon Padre Bridge	National Register	Attest		
10. Dead Indian Canyon Bridge	Substantive Review	for Keeper	<u>Patrick Andrus</u>	<u>9/30/88</u> <i>SEN</i>
		Attest		



UNITED STATES DEPARTMENT OF THE INTERIOR  
NATIONAL PARK SERVICE

NATIONAL REGISTER OF HISTORIC PLACES  
EVALUATION/RETURN SHEET

REQUESTED ACTION: NOMINATION

PROPERTY NAME: Sanders Bridge

MULTIPLE NAME: Vehicular Bridges in Arizona MPS

STATE & COUNTY: ARIZONA, Apache

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: 88001618

NOMINATOR: STATE

REASONS FOR REVIEW:

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

COMMENT WAIVER: N

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

ABSTRACT/SUMMARY COMMENTS:



ABSTRACT/SUMMARY COMMENTS (CONTINUED FROM PREVIOUS SIDE)

Significant under criterion C as one of 3 riveted Pratt pony trusses, identified in statewide Inventory. Significant under A as an important link on major interstate route. SLR completed to resolve period of significance question. - No SLR, DOCUMENTATION see attached comments Y/N see attached SLR Y/N period of significance acceptable for this resource.

Decision: Accept-A/C  
 Date: 9/26/88  
 Signature: Noble  
 Title: Historian

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 \_\_\_\_\_



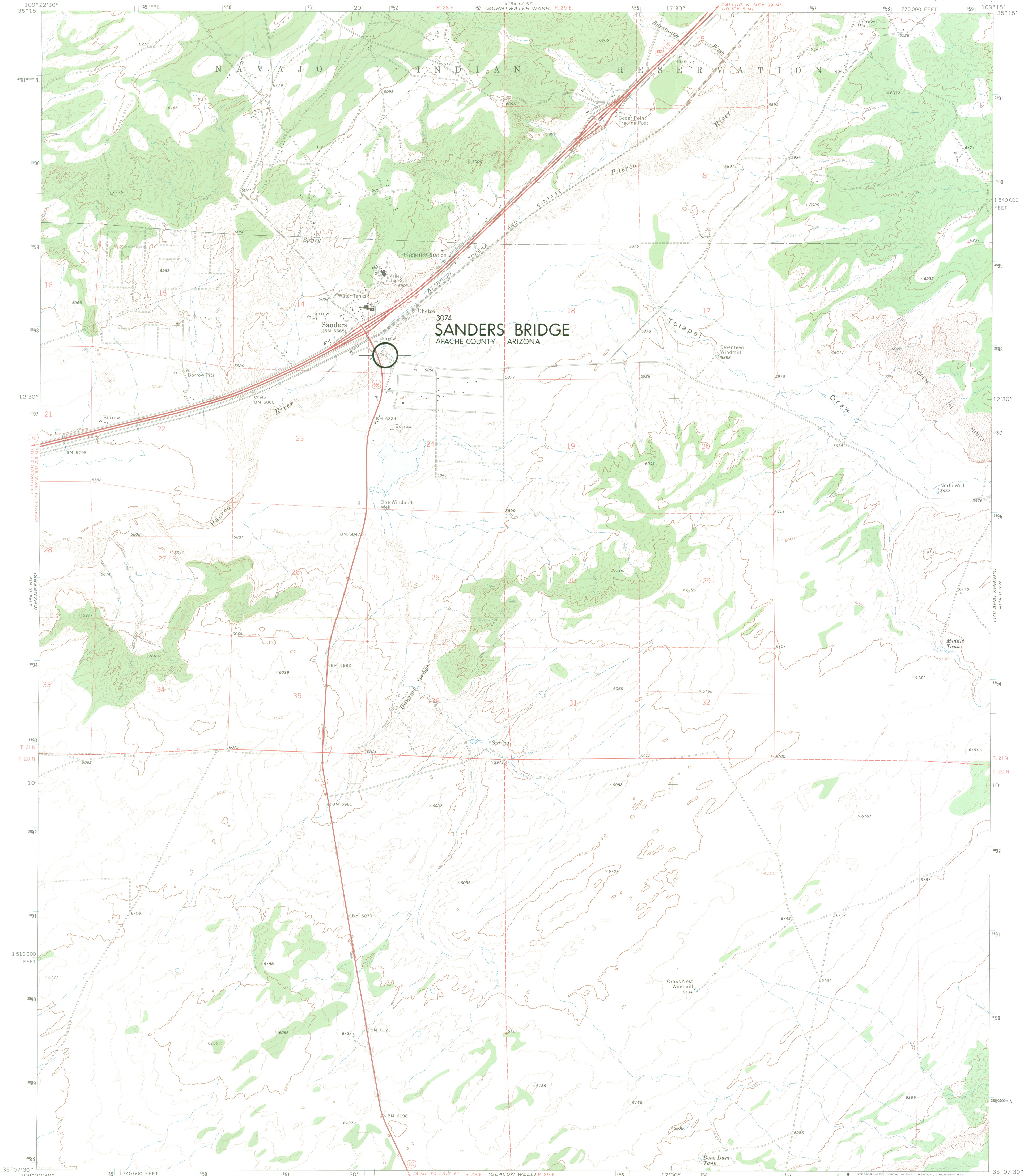




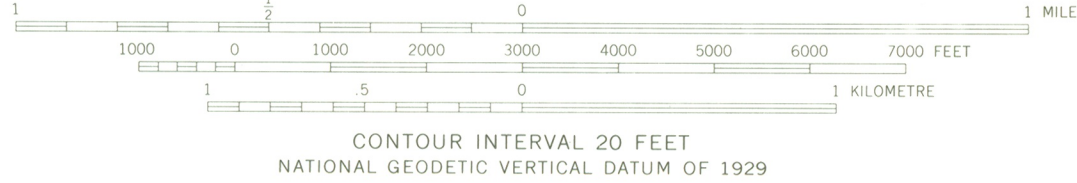
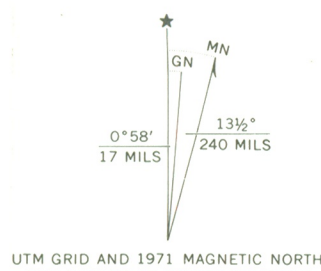
25) 3014 SANDERS BRIDGE (ARIZONA VEHICULAR BRIDGE)

2014





Mapped, edited, and published by the Geological Survey  
Control by USGS and NOS/NOAA  
Topography by photogrammetric methods from aerial  
photographs taken 1969. Field checked 1971  
Projection and 10,000-foot grid ticks: Arizona coordinate  
system, east zone (transverse Mercator)  
1000-metre Universal Transverse Mercator grid ticks,  
zone 12, shown in blue. 1927 North American datum  
Fine red dashed lines indicate selected fence lines  
Certain land lines are omitted because of insufficient data



ROAD CLASSIFICATION	
Primary highway, hard surface	Light-duty road, hard or improved surface
Secondary highway, hard surface	Unimproved road
Interstate Route	U. S. Route
	State Route

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

SANDERS, ARIZ.  
N3507.5—W10915.7.5

1971

AMS 4154 III NE—SERIES V898