

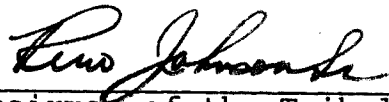
RESOLUTION OF THE  
WHITE MOUNTAIN APACHE TRIBE OF THE  
FORT APACHE INDIAN RESERVATION

WHEREAS, the Chairman of the White Mountain Apache Tribe has requested assistance from the Indian Health Service for the installation of sanitation facilities for scattered housing to be located on the Fort Apache Indian Reservation; and

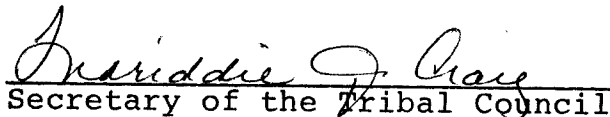
WHEREAS, the Tribal Council has reviewed and considered the provisions of the attached Memorandum of Agreement, including the Project Summary incorporated therein.

BE IT RESOLVED by the Tribal Council of the White Mountain Apache Tribe that the Tribal Chairman is hereby authorized to execute this agreement and any subsequent amendments and agreements necessary for the construction and transfer of domestic water supply and sewage disposal facilities for Indian Homes in the communities throughout the Fort Apache Indian Reservation for Project PH 88-667.

The foregoing resolution was on August 10, 1988, duly adopted by a vote of ELEVEN for and ZERO against by the Tribal Council of the White Mountain Apache Tribe, pursuant to authority vested in it by Article V, Section 1(i) of the Amended Constitution and Bylaws of the Tribe, ratified by the Tribe June 27, 1958, and approved by the Secretary of the Interior on May 29, 1958, pursuant to Section 16 of the Act of June 18, 1934 (48 Stat. 984).



Chairman of the Tribal Council



Secretary of the Tribal Council

**RECEIVED**

AUG 25 1988

Fort Apache Indian Agency  
Whiteriver, Arizona

PROJECT SUMMARY  
DOMESTIC WATER SUPPLY AND SEWAGE DISPOSAL FACILITIES  
8 UNITS BIA HIP HOUSING  
22 UNITS TRIBAL HOUSING  
8 UNITS BIA REVOLVING CREDIT HOUSING  
FORT APACHE INDIAN RESERVATION  
APACHE, NAVAJO AND GILA COUNTIES, ARIZONA

PUBLIC LAW 86-121

IHS PROJECT NUMBER PH-88-667

U. S. DEPARTMENT OF HEALTH AND HUMAN SERVICES  
PUBLIC HEALTH SERVICE  
INDIAN HEALTH SERVICE  
PHOENIX AREA OFFICE

JUNE 1988

PROJECT SUMMARY  
DOMESTIC WATER SUPPLY AND SEWAGE DISPOSAL FACILITIES  
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INTRODUCTION

Members of the White Apache Tribe are planning to add approximately 38 additional units of scattered housing on the Fort Apache Indian Reservation during 1988 and 1989. These homes will be financed through the Bureau of Indian Affairs (B.I.A.), Housing Improvement Programs, BIA Revolving Credit Housing Program, and private financing. The White Mountain Apache Tribe has requested assistance in the installation of water and waste disposal facilities from the Indian Health Service in a project proposal dated June 10, 1988. The Indian Health Service proposes to construct the above mentioned facilities for a total cost of \$230,000.00. These facilities will provide adequate domestic water supply and waste disposal facilities for approximately 190 people. The exact locations of these homes have not been determined at this time.

Upon completion of construction, the Indian Health Service will transfer ownership of these facilities to the individual homeowners or to the Utility Authority as appropriate.

GENERAL INFORMATION

The Fort Apache Indian Reservation, governed by the White Mountain Apache Tribe, with headquarters at Whiteriver, Arizona, is located in the mountainous east central part of the state, and occupies large portions of

Navajo, Gila, and Apache counties. The Fort Apache Reservation is approximately 75 miles wide from east to west and about 45 miles long from north to south and covers an area of 1,664,872 acres or 2,601 square miles. Show Low (35 miles distant) and McNary (23 miles distant) are the nearest urban communities. Holbrook (85 miles distant) is the nearest town located on a main line railroad. Phoenix, largest city in the State, is located 180 miles to the southwest.

The Reservation has a wide range of topography and climate. The southwestern area is semi-desert in character with an elevation of 2,700 feet and high summer temperatures. To the northeast, however, elevations in some places exceed 11,000 feet. The summers are cool and the winters are moderately severe. It is in this region, where elevations are 5,000 to 6000 feet, that the Whiteriver Agency Headquarters is located. Variations in daily temperatures during spring, summer and early fall range from 10 to 25 degrees or more, and about the same for late fall and winter. Rainfall varies from a few inches in the southwest to heavier precipitation, including snow, at elevations of 6,500 feet to 11,000 feet.

The entire Reservation slopes generally in a southeasterly direction and drains into the Salt River, which is an important source of surface water for Phoenix and the surrounding area.

The Reservation is heavily forested in many areas. There are 719,686 acres of commercial forest and 347,555 acres of non-commercial forest. The principal commercial tree is the Ponderosa Pine; non-commercial trees are Pinon, Juniper, Scrub Oak, Alder, Cottonwood, Walnut, Box Elder, and Sycamore.

## EXISTING SANITATION FACILITIES

### Water Supply

All of the proposed housing units will be constructed near existing community water systems, many of which have recently been improved in conjunction with housing projects funded by the Department of Housing And Urban Development.

### Sewage Disposal

Several of the new homes will be built near existing community sewer systems that are capable of handling the increased sewage flow. It is anticipated that the remaining new homes will require individual septic tank and leachfield systems.

## PROPOSED FACILITIES

Locations of the proposed homes have not been determined at this time. This project will provide water service lines or short water main extensions connected to existing water mains. Sewage disposal will be provided by either sewer service lines, short sewer main extensions or septic tank drainfield systems.

## COST ESTIMATE

This project is being funded for \$230,000.00 by IHS. This amount is based upon an expected average cost per home of approximately \$6,000.00 for 38 homes. An estimated cost schedule based on assumed facility needs follows. It is understood that the actual number and type of facilities necessary to serve 38 homes will be a function of the actual approved location. Individual service costs exceeding \$8,500.00 per home will be the responsibility of the homeowner in accordance with Phoenix Area Policy.

## PLUMBING

There is no interior plumbing included in this project.

## METHOD OF CONSTRUCTION

Facilities to be installed through this project will be constructed by any one or combinations of the following methods: (1) MOA contract with Tribal Programs; (2) Open market contracts; (3) Tribal employees.

## FLOOD HAZARD

The houses served by this project will not be located in areas subject to flooding. None of the facilities to serve these homes will be built in flood prone areas without provision of flood protection features.

## ENVIRONMENTALLY RELATED DISEASES

TABLE 1.

ENVIRONMENTALLY RELATED DISEASES	NUMBER OF HOSPITAL VISITS*				
	FY 80	FY 81	FY 82	FY 83	FY 84
Disease	No.	No.	No.	No.	No.
Infectious Hepatitis	46	51	6	13	12
Bacillary Dysentery	77	120	109	110	227
Gastro- enteritis Diarrhea	1387	1944	1589	1840	1884

\*Service Unit Population of 9,150

Table 1. gives an indication of numbers of hospital visits related to each specific disease for that fiscal year. It does not separate specific cases.

### HOMEOWNER TRAINING

Recipients of individual facilities installed under this project will be provided with two training sessions to insure that the facilities are properly operated and maintained. The first session will be during the construction of the facilities, followed by a second session several months after the homeowner has occupied the house. The Sanitation Facilities Construction Branch and Environmental Health Services Branch will conduct the training sessions.

### OPERATION AND MAINTENANCE

Upon completion of this project, ownership of service lines and septic tank drainfield systems facilities will be transferred to the individual homeowner.

Individual Agreements (Forms HHS-300) will be signed by the participant before and after construction. It will be the responsibility of the homeowner to assure that the facilities are properly maintained. All community facilities will become the responsibility of the Utility Authority for operation and maintenance. The minor incremental increase in utility authority costs to serve the 38 additional homes will be more than offset by the revenue generated from monthly charges.

### DESIGN ANALYSIS SHEETS

Due to the minimal increase in demand on existing facilities created by the addition of the 38 scattered units, design analysis sheets have been deleted from this Project Summary. Reference should be made to Projects PH-86-480, 86-497 and PH-86-498 concerning development of additional water sources and supplies concerning the Alchesay Flats/Whiteriver areas.

### FLUORIDATION

All community water systems have been fluoridated, or funding has been provided by previous projects to complete needed fluoridation facilities.

INDIAN HEALTH SERVICE  
SANITATION FACILITIES CONSTRUCTION  
UNDER PL 86-121

PROJECT SCHEDULE

AREA PHOENIX

PROJECT TITLE 38 Units Tribal Housing

PROJECT NUMBER PH-88-667

AND \_\_\_\_\_

LOCATION Fort Apache Reservation

ESTIMATED COST \$ 230,000.00

PROJECT DESCRIPTION Provide water

IHS \$ 230,000.00

and sewer service to 38 homes

TRIBAL \$ \_\_\_\_\_

OTHER \$ \_\_\_\_\_

NO. HOMES TO BE SERVED 38

TOTAL \$ 230,000.00

DATE PROJECT APPROVED \_\_\_\_\_

<u>ACTION TAKEN</u>	<u>TARGET DATES</u>	<u>REMARKS</u>
MEMORANDUM OF AGREEMENT SIGNED	<u>7/88</u>	_____
ENGINEERING DESIGN INITIATED	<u>6/88</u>	_____
ENGINEERING DESIGN COMPLETED	<u>12/88</u>	_____
STATE HEALTH DEPARTMENT REVIEW	_____	_____
RIGHTS OF WAY REQUESTED	_____	_____
PROCUREMENT INITIATED	<u>8/88</u>	_____
CONSTRUCTION PERSONNEL	_____	_____
RECRUITMENT	_____	_____
TRAINING	_____	_____
CONSTRUCTION COMPLETED	<u>8/89</u>	_____
FACILITIES TRANSFERRED	<u>12/89</u>	_____

Chief, SFCB

Date



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APACHE, NAVAJO AND GILA COUNTIES, ARIZONA

PUBLIC LAW 86-121

IHS PROJECT NUMBER PH-88-667

PREPARED BY:

6/13/88  
Date

*E. C. ...*  
Project Engineer

CONCURRED BY;

6/14/88  
Date

*C. ...*  
Service Unit Director

REVIEWED BY:

\_\_\_\_\_  
Date

\_\_\_\_\_  
District Engineer

RECOMMENDED FOR APPROVAL:

\_\_\_\_\_  
Date

\_\_\_\_\_  
Chief, Sanitation Facilities  
Construction Branch

APPROVED BY:

\_\_\_\_\_  
Date

\_\_\_\_\_  
Acting Director, Office of Environmental  
Health