

Guide to
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Roosevelt Dam – Modifications 1990
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HISTORICAL NOTE

Theodore Roosevelt Dam is on the Salt River located northeast of Phoenix, Arizona. The dam is 357 feet (109 m) high and was built between 1905 and 1911, and renovated 1989 - 1996. The dam has a hydroelectric generating capacity of 36,000 kW. The dam forms the Theodore Roosevelt Lake as it impounds the Salt River.

Construction on Roosevelt Dam began in 1903 at the confluence of Tonto Creek and the Salt River. The primary purpose of the project was to provide water storage for the Salt River Project and flood control through the Salt River Valley. The dam was finished in 1911 after several devastating floods had interrupted the construction progress in 1905. At the time of completion in 1911, it was the largest masonry dam in the world with a height of 280 feet (84 m) and a length of 723 feet (216 m) while Roosevelt Lake was for a time the world's largest artificial reservoir.

In 1989, an ambitious expansion and renovation project was begun at Roosevelt Dam. The dam was resurfaced with concrete, by J.A. Jones Construction Company, and its height was raised 77 feet (23 m) to 357 feet (107 m) which had the effect of increasing the storage capacity of Roosevelt Lake by roughly 20%. This project was completed in 1996 at a cost of \$430 million. The \$430 million in costs included three other major construction contracts associated with the dam. These included the realignment of Highway 188 over the new bridge up stream of the dam, renovations to the hydroelectric power plant, and a tunneling contract know as the "Lake Tap". The Lake Tap contract would provide locations where the penstocks would be located to bring water into the hydroelectric power plant. Shortly after completion, however, the area entered into a prolonged period of drought, and it would be some time before the newly increased capacity was put to use, with the lake finally reaching historic levels of 100% capacity in February 2009.

SCOPE AND CONTENT

These materials are entitled "Theodore Roosevelt Dam, Safety of Dams- Modification, Salt River Project, Arizona, Solicitation/Specifications" and were published by the United States Department of the Interior, Bureau of Reclamation. This collection includes two boxes. The first box contains four manuals and two Folders of maps. The second box contains two manuals of drawings.

PROVENANCE

This collection was donated to the Arizona Historical Society.

RESTRICTIONS

None

LITERARY RIGHTS STATEMENT

Permission to publish material from the Roosevelt Dam – Modifications materials must be obtained from the Library and Archives Department at the Central Arizona Division of the Arizona Historical Society.

NOTES TO RESEARCHERS

These are technical manuals published to solicit bids for the dam modifications and to provide the technical information needed for these modifications.

CONTAINER LIST

BOX ONE

Folder One, Volume 1 of 6.

- Table of Contents
- Bid Solicitation Documents
- Bid Submittal Documents
- Contract Documents

Folder Two, Volume 2 of 6

- General Requirement
- Sitework
- Special Foundation Requirements
- Instrumentation
- Earthwork

Folder Three, Volume 3 of 6

- Tunnel Construction
- Concrete
- Masonry
- Metalwork
- Thermal and moisture protection
- Metal Doors and frames
- Finishes
- Specialties

Folder Four, Volume 4 of 6

- Mechanical
- Fire Protection Systems
- Electrical
- Painting, Coating, and Staining
- Drawings
- Records of Geologic and Subsurface Investigations
- Construction materials Test Data and Technical Memorandum
- Blasting Considerations Relating to the Prime Contract Modifications of Theodore Roosevelt Dam

Folder Five and Folder Six – Maps

Box Two

Volumes 5 and 6 are manuals of maps.