

Rehabilitation Of Irrigation Systems Under Way

\$1,712,000 Program to Continue Five Years

Rehabilitation of a system which first carried irrigation water into Rogue valley in 1902 was started last year in a joint project undertaken by Medford and Rogue Valley Irrigation districts.

The \$1,712,000 program, approved by voters in both districts at a special election July 15 last year, will continue for about another five years, but major portions in the program in the two districts will be completed as soon as possible.

Work at Fourmile lake, storage reservoir for the districts, has been completed; work at Fish lake, from which water is drawn daily during the irrigation season, will be completed this fall; and rehabilitation work along the main and individual district canals has started.

Replace Flumes
Copenhagen and company, Portland, will start work on replacing two metal flumes with precast concrete siphons with the irrigation season ends. Bids are expected to be called soon on two siphons in the main canal, which carries water from North Fork Little Butte creek to Bradshaw drop, where it is divided between the districts.

The rehabilitation program was deemed imperative to insure a dependable water supply to district lands for continued high agricultural production. The program will put both irrigation systems in first class operating condition and will reduce present leakage and waste.

Among the rehabilitation work completed or scheduled are the following:

Spillway Reconstruction
Fourmile lake — Work on reconstruction of the spillway and construction of a parapet wall along the crest of the dam have been completed. The wall was constructed to keep waves from going over the crest of the dam and deteriorating the outside of the dam.

Fish lake — A concrete-lined side channel spillway at the left abutment will be constructed after the irrigation season ends this year. Design capacity of the spillway will be 300 cubic feet per second, and will be 190 feet long. Seepage from the spillway site has been sufficient to meet April and May demands at times.

Earlier this year, rip-rap work was done on the surface of Fish lake dam to prevent erosion. Rock used came from excavation for the new spillway.

South Fork crossing, main canal — The existing 625-foot metal flume will be replaced with a 60-inch precast concrete siphon 645 feet long. Copenhagen and company, Portland, probably will start construction after the irrigation season.

Metal Flume
Culbertson flume — Replacing a metal flume about 360 feet long is the new Culbertson flume, 352 feet long around a rock curve a short distance down the main canal from the "junction." The new flume is concrete.

Lake Creek crossing — A 460-foot metal flume will be replaced with a precast concrete siphon 345 feet long by Copenhagen and company this fall. The new structure will parallel the present flume, which is trestled some 45 feet above the road and creek.

Bids will be received until 10 a. m. Aug. 22 on two projects along the main canal. They are the Wyant Wash and the Osborne Wash crossings. The 300-foot Wyant siphon will be 500 feet below the present structure, which curves its entire length.

Precast Concrete
The Osborne Wash siphon will be a combination of 31-inch and 53-inch precast concrete pipe 1,073 feet long. The siphon will eliminate a flume and about 11,500 feet of canal, a section which presently has considerable seepage.

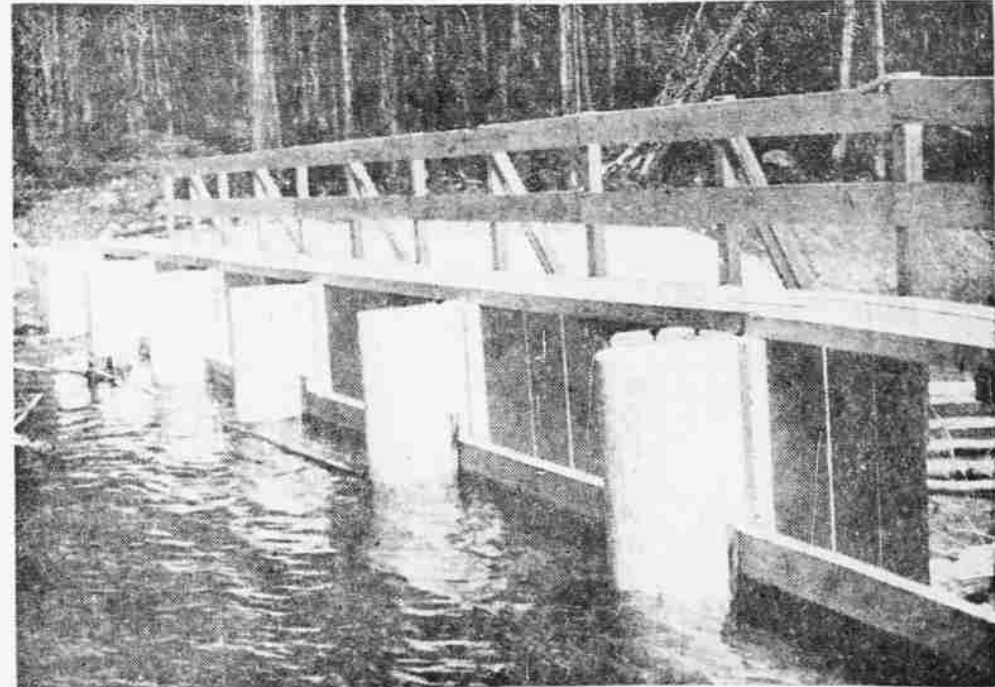
Other work along the main canal includes replacing three metal flumes. Two will be bench flumes and the third will be replaced with a concrete wall 40 feet long which will dam the draw. The latter is just upstream from Bradshaw drop.

Financing rehabilitation of the main canal and Fourmile and Fish lakes will be shared by both the Medford and Rogue River Valley irrigation districts.

Critical Structures
Critical structures along the Medford canal, which extends southward along the east side of the valley to Bear Creek at Phoenix, are the Yankee creek siphon, the Antelope creek flume and the Bear creek siphon.

The present 48-inch wood-stave siphon at Yankee creek will be replaced with a 37-inch precast concrete siphon 1,970 feet long with a design capacity of 115 cubic feet per second. The present siphon has decayed in several places, and only because of water pressure inside does it remain intact, district officials said.

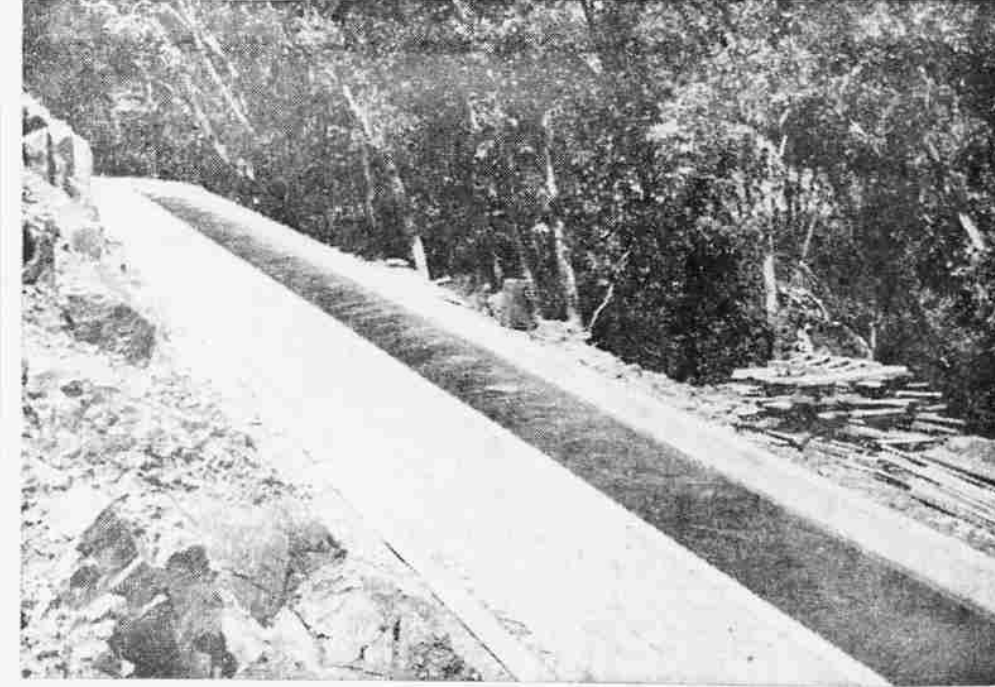
The Antelope creek crossing will be a 215-foot concrete siphon replacing the present 200-foot metal flume which has insuffi-



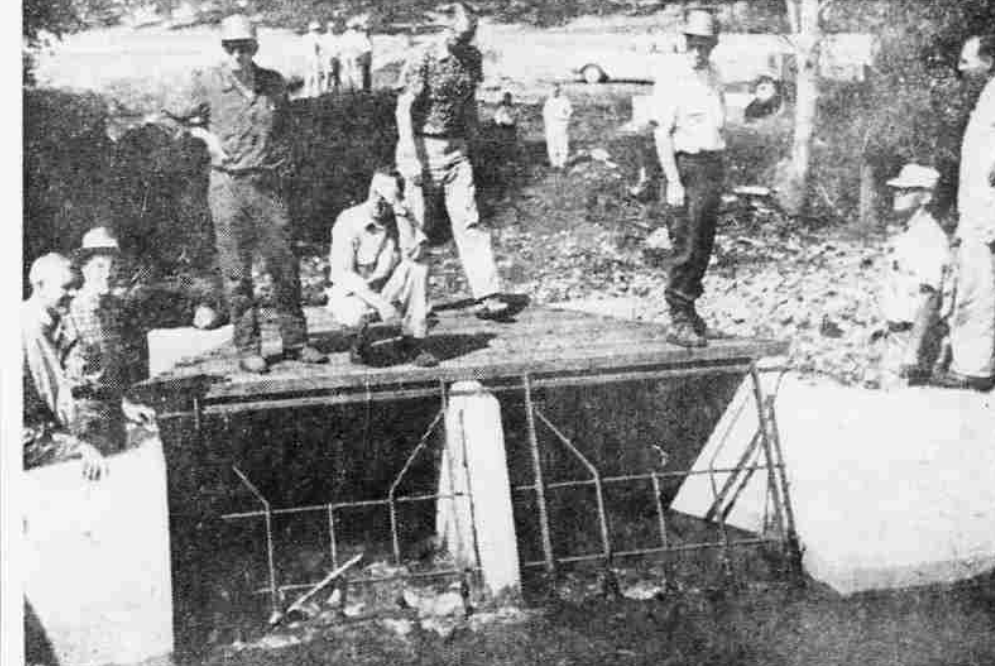
NEW SPILLWAY—The new spillway at Fourmile lake, shown above, is 60 feet wide with a plank deck across piers to facilitate replacement and removal of flashboards. A concrete-lined deck below the spillway prevents erosion around the structure.



SPILLWAY SITE—A concrete-lined side channel on the left abutment at Fish lake will provide an adequate spillway. Construction will start on the 90-foot long spillway as soon as the irrigation season is finished. Head of the structure will be at left center in above picture.



CULBERTSON FLUME—This new concrete flume 352 feet long replaces a metal flume in the main canal was completed by Copenhagen and company, Portland, early this year. Fill work between the flume and the rock ledge remains to protect the structure.



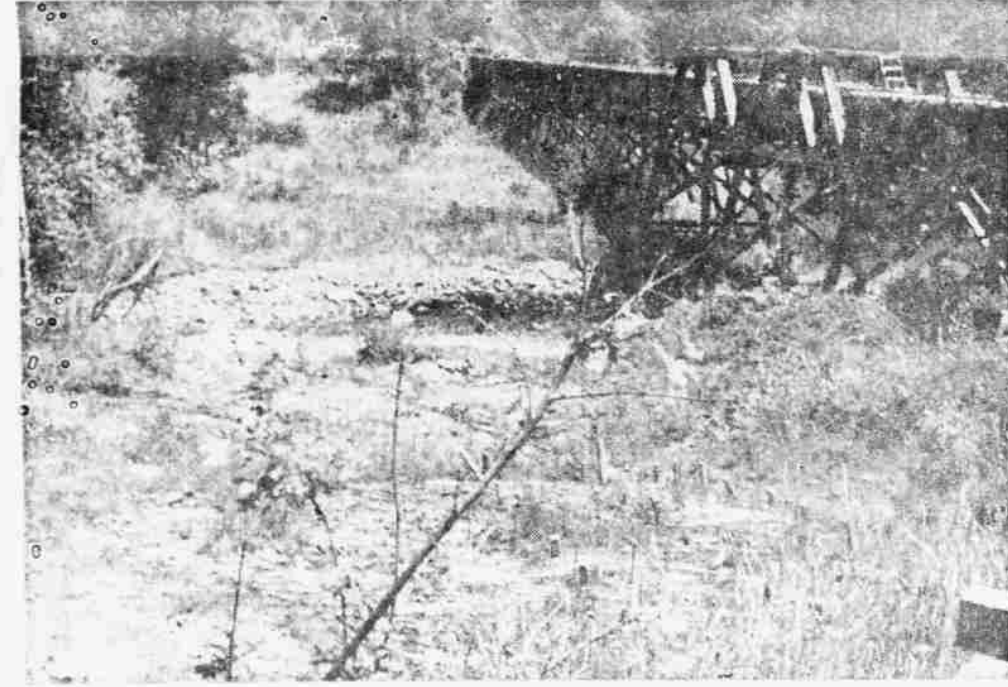
INSPECT NEW SIPHON—Officials and users of Medford and Rogue River Valley Irrigation districts inspect new 95-foot siphon at Antelope creek in Rogue River's system. The structure is part of the Hopkins canal and replaces a metal flume.



PARAPET WALL—The 175-foot long 3 1/2-foot high parapet wall along the crest of Fourmile lake dam, one of two rehabilitation structures, is shown above. The wall was constructed to prevent water, in high winds, from washing over the top of the dam.



RIP-RAP WORK—New rip-rap was placed along the face of Fish lake dam earlier this year to reinforce the face of the dam. Rock was taken from the site of the new spillway, which will be constructed to the right of construction metal in foreground.



CONCRETE SIPHON—A 60-inch precast concrete siphon 645 feet long will replace the flume pictured above at the junction of North and South Forks of Little Butte creek. The siphon will be in the cleared area just left of the present structure.



LAKE CREEK SIPHON—A 60-inch precast concrete siphon 345 feet long will replace this 460-foot metal flume at Lake Creek. Loose rock at right of structure is where the new siphon will be constructed once water has stopped flowing later this year.

Property Owner Files Suit Against Engineers

Portland — (U.P.) — The Army Corps of Engineers is defendant in a \$9000 damage suit filed in Federal Court here Friday by the attorney for a Bayocean property owner.

Attorney John Reynolds said he filed the suit in behalf of Lyman Latourette of Portland who owned 42 cottages on the Bay-ocean peninsula. The suit charges that the engineers extended the Tillamook bay jetty in 1933, changing the natural course of ocean currents and causing sand erosion which resulted in the cottages falling into the sea.

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BID REJECTED

Portland — (U.P.) — Col. Jackson Graham, Portland district engineer, said Saturday the \$107,800 bid of F. S. Somers of Medford for repair of the north jetty at the mouth of the Coquille river had been rejected because it was more than 25 percent over the government estimate. It was the only bid received.

Steel Pipe Arrives For Natural Gas Line

Ontario — (U.P.) — Ernie Jorgensen, president of Eastern Oregon Natural Gas Distributors, said Friday his company had received its first shipment of steel pipe for installation of natural gas lines here. Other shipments are expected to follow.

Commercial Fishing To Resume on Columbia

Portland — (U.P.) — The Oregon Fish commission said Saturday commercial fishing on the Columbia river below Bonneville dam would be resumed at 6 p. m. today after a 14-day closure.

FIVE MILES OF NYLON

Shirley, Mass. — (U.P.) — The longest anchor cable ever made has been turned out at a cordage works here. A five-mile length of nylon cordage, it will be used by an oceanographic expedition sponsored jointly by the National Geographic Society and the French National Scientific Research Center.

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