

Zuni Projects - Zuni, Nutria, Pescado,
Tekapo, Ojo Caliente
FY 1923-1935

9/28/1985

COPY

Irrigation
9539-32

CROSS REFERENCE SHEET

July 16, 1935
DATE:.....

Name or Subject	File No.
Mortorium for construction charges on Indian Irrigation projects for the years 1934 and 1935.	ZUNI AGENCY

SEE

Name or Subject	
Pine River Assessments, auth., and recommendations

317 c

COPY

Irrigation
9539-32

CROSS REFERENCE SHEET

July 9, 1935
Date:.....

Name or Subject

File ~~XXX~~

Moratorium for construction charges on Indian
Irrigation projects for the years 1934 and 1935.
.....

ZUNI AGENCY
.....

SRE

Name or Subject

Pine River Assessments, auth., and
recommendations
.....

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COPY

Argation
429-32

CROSS REFERENCE SHEET

Date: February 9, 1935

Name or Subject

File No.

Zuni Agency (assessments for operation and maintenance)

SEE

Name or Subject

Pine River Assessments, auth., and recommendations file.

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF THE SECRETARY
WASHINGTON

FEB -7 1935

ORDER

FIELD OPERATIONS AND MAINTENANCE CHARGES

ZUNI PUEBLO, NEW MEXICO.

In accordance with the provisions of the Act of August 1, 1914 (38 Stat., 551-55), the operation and maintenance charges for irrigable lands of the Zuni Pueblo, New Mexico, are fixed as follows for the calendar year 1935, and subsequent years until further notice.

For tribal lands operated by the Zuni School or Sanatorium the rate shall be \$3.50 per acre.

Time and Conditions of Payment. The charges herein fixed shall become due and payable on April 1, 1935, and on that date of each succeeding year until further notice.

No water shall be delivered until the charges have been paid or until the Superintendent shall have issued a certificate that provision has been made for such payment.

(SGD) T. A. WALTERS

First Assistant Secretary.

COPY

Irrigation
H C N

June 20, 1935.

Memorandum to Mr. McMullen:

Re: Irrigation at Zuni

Maintenance and operation of the irrigation system at Zuni has been under the jurisdiction of the Superintendent for the past year. The construction work has been carried on by the Fifth Irrigation District.

The largest area of irrigated land is situated at or near the main Zuni village where there are about 2,000 acres of irrigable farm land. The water supply is obtained by storing water in the Zuni reservoir and in the two new reservoirs on the upper Nutria. On the upper Nutria a diversion dam and ditch has been built which provides for the irrigation of approximately 200 acres. On the upper Pescado a storage reservoir of 300 acre feet capacity has been constructed as well as a new diversion canal from the Pescado Creek to this reservoir, also water development of the Pescado stream has been completed. These works provide irrigation for approximately 400 acres.

Irrigation is also carried on at Tekapo about 4 miles southwest of Zuni village where the Indians have built a dam. Funds are included in the request for new irrigation funds under the Works Bill to improve this system. The Ojo Caliente, approximately 20 miles southwest of Zuni the Indians irrigate 200 or 300 acres by water from springs and also water developed by a drainage canal recently constructed.

Irrigation works on Zuni Pueblo are under the direct supervision of Foreman Fred Frost. Mr. Frost is experienced in handling irrigation works and it is believed you will find him very satisfactory. It is suggested that you confer with Superintendent Trotter who is now in the Office regarding these matters.

H. C. Neuffer
Supervising Engineer

6 mk 20

COPY

Irrigation
10162-32

Cross Reference:
Copies of this letter are filed
in Hogback Collections, Ganado,
Zuni Agency, and Pine River
Assessments, Auth., and Recommenda-
tions files.

AIR MAIL

Fifth Irrigation District
Albuquerque, New Mexico

January 15, 1935

Commissioner of Indian Affairs
Washington, D. C.

Sir:

This is in reference to Office letter Irrigation 10162-32 of January 12, 1935, and to letter Irrigation 10162-32 of December 6, 1934. The letter dated December 6 was mislaid or it would have been answered sooner.

We have collection charges in force on three projects; namely, Pine River Project, Consolidated Ute Agency, Colorado; Hogback Project, Northern Navajo Agency, New Mexico; and Ganado Project, Southern Navajo Agency, Arizona.

We recommend that the rates on the Pine River Project, Consolidated Ute, Colorado, and Ganado Project, Southern Navajo, Arizona, remain as they were for the past year. We understand that the public notices now in force are good until a new rate is set, so nothing further need be done as far as these two projects are concerned.

The last public notice on Hogback Project, Northern Navajo, New Mexico, was dated January 5, 1933. The rate was \$5.00 for each cistern for domestic water delivered through the project's canal and \$2.00 an acre for tribal land operated by the school and agency. This was reduced to \$2.00 from \$4.00 for the reason that our irrigation system was not in proper condition to operate satisfactorily. The canal system is now in good condition, and it is recommended that the per acre charge for tribal land operated by the Northern Navajo School and Agency or for tribal land under assignment to the Indians be \$2.00.

It is recommended that the Zuni Project, Zuni Agency, New Mexico have set up a charge of \$3.50 an acre for operation and maintenance for tribal land operated by the Zuni School or for tribal land under assignment to the Indians. This matter was discussed with Superintendent Trotter and he is agreeable that this rate be set. However, for the school and agency it will be essential that an allotment of funds be

COPY

January 15, 1935

made to the superintendent for this purpose. Our reports show that the Zuni farm covers an area of 106 acres.

For both the Hogback and Zuni Projects the expected rate from the Indians will have to be almost entirely in the form of labor, as the Indians will not be able to pay the full amount in cash.

Very truly yours,

H. C. Neuffer,
Supervising Engineer

Copy to Mr. G. A. Trotter, Supt.
Zuni Agency

COPY

Irrigation
26927-35

E G S

4

Handwritten: May 15 1935
Stamp: MAY 15 1935

Mr. George A. Trotter,
Supt. Zuni Agency.

Dear Mr. Trotter:

Receipt is acknowledged of your letter of May 15 requesting authority to purchase a new pick-up truck for the use of the irrigation foreman under your jurisdiction.

It is noted that the truck now in use is four years old with a mileage of 44,600, and that it is in need of repairs estimated to cost approximately \$125 or equivalent to the turn in value of machine on a new truck. It appears that the necessary funds for the proposed purchase are available in the present allotment.

In view of the foregoing, authority is hereby granted to advertise for the purchase of a new truck of the type indicated, including the trade in of the old one to the lowest bidder.

Sincerely yours,

(Signed) John Collier
Commissioner.

5 ELM 21

Copy to Supervising Engineer Neuffer.

COPY

Irrigation
62677-34
D. C. S.

Mr. George A. Trotter,
Superintendent, Sani Agency.

DEC 20 1934

My dear Mr. Trotter:

Receipt is acknowledged of your letter of December 11 with further reference to the purchase of household furniture for the Irrigation Foreman.

In accordance therewith authority is hereby granted for the purchase of the various items of household furniture set forth in the communication at an estimated cost of \$160.00 and your authority for the expenditure of Irrigation funds is modified accordingly.

Sincerely yours,

(Signed) John Collier

Commissioner.

12 eg 19

Copy to A. C. Neuffer

COPY

Fifth Irrigation District
Albuquerque, New Mexico

*Mrs. R.
Set in
Zuni,*

December 5, 1934

Mr. Geo. A. Trotter, Supt.,
Zuni Indian Agency,
Zuni, New Mexico.

Dear Mr. Trotter:

This is a reply to your letter of December 1, 1934. A supply of Balance Sheet forms is being mailed to you.

Your report on form 465a is returned. The \$454.19 should be broken down on the summary sheet to show the charges to operation and maintenance in accordance with the classifications set up. If you remember, while I was at Zuni, I broke down the total disbursement vouchers into reimbursable and non-reimbursable, as of June 30, 1934. The total to date should be broken down accordingly. The report should then be mailed direct to the Commissioner of Indian Affairs and note in your letter that it is for the attention of the Irrigation Division.

Very truly yours,

IFA/JL
Encl.

Ivan F. Albers
Sr. Clerk & S. D. A.

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF INDIAN AFFAIRS

FIELD SERVICE
Zuni Indian Agency,
Zuni, New Mexico,
Dec. 1, 1934.

York
See mtg
DEC 1 1934

Ivan F. Albers,
Sr. Clk. & S.D.A.
5th Irrigation District,
Federal Building,
Albuquerque, N. M.

Dear Mr. Albers:-

Enclosed, in duplicate, is the Balance Sheet required in connection with the Irrigation accounts for the Zuni Agency, covering the month of August, 1934. No disbursements for the month of July, 1934, were recorded at this agency.

We need more of the Balance Sheet forms, 5-465-c, if you can supply them.

Very truly,

G. A. Trotter
G. A. Trotter,
Superintendent.

sent

Enc-2
s

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF INDIAN AFFAIRS

IRRIGATION SERVICE
Fifth Irrigation District
Gallup, New Mexico
Aug. 15, 1934

AUG 16 1934

Mr. H. C. Neuffer,
Supervising Engineer,
Box 445,
Albuquerque, N. M.

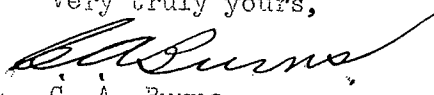
Dear Mr. Neuffer:

In regard to the construction of the Horsehead Canyon which is under construction by the F. C. W. This project was visited on August 14th by Mr. C. F. Bentley, Mr. Paul Dunnaway, and myself. The following conditions were encountered.

The dam is constructed to the maximum height, however the downstream slope is about one to one with the upstream or waterside of the slope considerable less than three to one. The crown of the dam was approximately eight feet in width. Superintendent Trotter requested that we go over the details of construction with Mr. Holtz and Mr. Dunnaway which has been done in accordance with the following:

A new survey should be made, using a twelve-foot crown width, downstream slope two to one, upstream or waterside three to one. During construction all materials should be placed at the toe slope and gradually worked up to the crown in order that all of the material will be compacted by the teams. If the material used is exceptionally dry, it might be necessary to keep the ground wet where the new material is placed in contact with the old slope.

Very truly yours,


C. A. Burns,
Engineer.

CC:Mr. G. A. Trotter,
Zuni, N. M.
Mr. Robert Holtz,
Zuni, N. M.

CAB:fa

COPY

Irrigation
C L S

*Mrs. Reephey
Kelvin
Zuni,
I*

District No. 5
Albuquerque, New Mexico
August 6, 1934

Mr. George A. Trotter
Supt. Zuni Agency

My dear Mr. Trotter:

Reference is made to a carbon of the letter dated July 30 which I received addressed to you by the Commissioner of Indian Affairs.

I think I gave your clerk sufficient instructions to handle the irrigation accounting when he was in Albuquerque for the time being.

I note, however, that I failed to furnish him with information regarding the deduction of quarters. The quarters occupied by Mr. Frost are known as No. 9 on irrigation schedule dated January 27, 1934, a copy of which was attached to my voucher No. 1178 for the month of February, 1934. Deductions should be made at the rate of \$15.00 a month.

As soon as my final irrigation report has been made I shall bring to you in person the accounts which are to be carried forward upon your ledgers and assist your clerk in whatever matter it is possible for me to do.

Very respectfully,

Ivan F. Albers
Sr. Clerk & S. D. A.

~~1934~~
cc...Commissioner of Indian Affairs

COPY

Irrigation
C L S

Albers

Mr. George A. Trotter,
Supt. Zuni Agency.

JUL 30 1934

Dear Mr. Trotter:

There is enclosed an organization schedule for the fiscal year 1935 covering certain seasonal registered and all unclassified positions within District No. 5, U. S. Indian Irrigation Service. You are hereby authorized to employ through the District Manager of the U. S. Civil Service, and in accordance with Civil Service rules and regulations in such positions as are needed for irrigation work on the Zuni Reservation. As heretofore and as specifically provided in section 12 of the Act of June 18, 1934, Public 388, qualified Indians shall have the preference to appointment to vacancies in any such positions. Specific regulations governing this section of said Act are now being prepared. These rates were approved by the Department on June 26, 1934, and are effective throughout the fiscal year unless otherwise modified.

It should be noted that the rates herein authorized are the maximum that can be paid, but you are instructed to pay the maximum rate only when absolutely necessary. All employment is subject to "Regulations Governing Appointments in the Field Services of the Department of the Interior", dated January 11, 1932, and economic legislation relative thereto including a deduction of 5 per cent.

A copy of the original appointment of each seasonal registered employee, a Personal History on standard form No. 6, and a Memorandum of Employment on form No. 5-467 must be kept in your office.

Mr. I. F. Albers, Principal Clerk and Special Disbursing Agent, at Albuquerque, New Mexico, will assist and advise you with regard to the ways of reporting personnel changes, obtaining eligibles, recommending appointments, etc.

COPY

Deductions on account of quarters are to be made in accordance with approved schedules on file with the General Accounting Office and the office of the district Supervising Engineer who will furnish you with copy of same.

Sincerely yours,

(Signed) John Collier
Commissioner

Enclosure 418059

7 MK 17

Copy for Supervising Engineer Neuffer
" " Special Disbursing Agent Albers

COPY

Irrigation
C L S

Murphy

4281-2-1934

JUL 30 1934

Mr. George A. Trotter,
Supt. Zuni Agency.

Dear Mr. Trotter:

There is enclosed an organization schedule for the fiscal year 1935 covering certain seasonal registered and all unclassified positions within District No. 5, U. S. Indian Irrigation Service. You are hereby authorized to employ through the District Manager of the U. S. Civil Service, and in accordance with Civil Service rules and regulations in such positions as are needed for irrigation work on the Zuni Reservation. As heretofore and as specifically provided in section 12 of the Act of June 18, 1934, Public 385, qualified Indians shall have the preference to appointment to vacancies in any such positions. Specific regulations governing this section of said Act are now being prepared. These rates were approved by the Department on June 26, 1934, and are effective throughout the fiscal year unless otherwise modified.

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Sincerely yours,

(Signed) John Collier

Commissioner

Enclosure 418059

7 MK 17

Copy for Supervising Engineer Neuffer ✓
" " Special Disbursing Agent Albers

COPY

REGISTER OF COST TRANSACTIONS

CONSTRUCTION		OPERATION		EQUIPMENT		MATERIAL AND SUPPLIES		FREIGHT AND HANDLING		Chief Engineer	
DEBIT	CREDIT	DEBIT	CREDIT	DEBIT	CREDIT	DEBIT	CREDIT	DEBIT	CREDIT	DEBIT	CREDIT
605062	78	129529	90	300	00	11035	97			7060	38
		7930	20	200	00	935	97				
605062	78	137460	10	100	00	100	00			7060	38
		53956	12	1-Distributary System, including Storage Dam.							
		68070	61	2-Prior to June 30, 1926							
		11433	37	3-Silt Control							
		(137460)	10								
7513	27	1-Jetties									
956	82	2-Surveys									
580210	96	3-Prior to June 30, 1926									
4304	72	4-Surveys-Nutria Reservoir									
1473	62	5-Reconnaissance Surveys of Outlying Districts									
10103	39	6-Nutria Dam and Reservoir									
(605062)	78										

COPY

Irrigation
30384-34

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF INDIAN AFFAIRS
WASHINGTON

JUN 28 1934

Mr. H. C. Neuffer,
Supervising Engineer.

JUN 25 1934


Dear Mr. Neuffer:

Receipt is acknowledged of your letter of June 18 relative to the proposed transfer of the operation and maintenance of the Consolidated Ute and Zuni projects to the respective Superintendents.

Pursuant to the instructions in circular letter of June 15, you will turn over the operation of the Zuni project to the Superintendent as of July 1, 1934.

Your views with respect to the continuation of your administration and supervision of the operation and maintenance of the Consolidated Ute project have been noted. In view of the fact that the operation and maintenance of that project for the present year is so closely connected with the construction activities being undertaken as a part of the Public Works program, you will continue supervision thereof until such time in the future as your present construction program for the project has been completed. At that time you will please take the matter up again with this Office.

Sincerely yours,


Commissioner.
M

COPY

Irrigation
10162-22

Circular No. 2979

District No. 5
Albuquerque, New Mexico

June 22, 1934

Commissioner of Indian Affairs
Washington, D. C.

Subject: Irrigation Reorganization,
Zuni Reservation

Dear Sir:

Reference is made to Office Circular No. 2979, of February 12, 1934, and Office letter Irrigation 10162-22 of June 15, 1934, pertaining to the transfer of irrigation administration activities to the superintendents of various reservations. The following statement is submitted as to the transfer of the irrigation administration of Zuni Reservation to the superintendent.

General Description of Project

The Zuni Project consists of five divisions, or areas, namely, Zuni, Upper Hatria, Pascado, Tshapo, and Ojo Caliente.

Historical

The Zuni Project is forty-five miles south of Gallup, New Mexico, at an elevation of 6,500 feet. The reservation is located on a Spanish grant which has been enlarged by executive orders of 1877, 1883, 1885, and 1912. The lands have never been allotted but are occupied by several individuals, and their title, as far as the public is concerned, is obtained through usage and inheritance.

The constructed irrigation works on the Zuni Project consist of a storage dam and reservoir with a capacity of 14,817 acre feet at contour elevation 993.3 which is the present elevation of the spillway, present capacity of approximately 3,000 acre feet, twelve miles of main canals, 50 miles of laterals, and twelve major structures.

Zuni

During 1933, 1,255 acres of this project were cultivated by the Indians and eighty-four acres by the Agency or school farm. The irrigable area of the school farm is 105 acres. It is estimated that a maximum of approximately 2,000 acres can be placed under irrigation

COPY

Commissioner of Indian Affairs 2
June 22, 1934

under the Juni dam. This is a rather large reduction from the original figure of 5,000 acres under the original plans of the project. This decrease is due to the reduction of the storage capacity, and insufficient run-off of the stream to allow for the greater acreage.

Nutria Division

On the Upper Nutria additional acreage is cultivated by the Indians. This was first placed under cultivation by constructed works in 1922. On account of erosion of stream channel and deterioration of the diversion dam it was necessary to rebuild this project. This was done in the fiscal year 1932. The constructed works consist of an earth dam across the channel, with a spillway through the sandstone hogback on the left bank of the stream.

The Indians cultivated 261 acres in this area in 1933, which is probably the maximum with the available water supply.

In addition to the Upper Nutria unit there will be two flood control dams on which maintenance work will have to be performed.

Pescado

The Pescado district is situated about fifteen miles from the Juni Agency, near the east boundary of the reservation, where water is available for the irrigation of approximately 400 acres. The area to be cultivated is dependant entirely upon the water supply.

A number of Indians originally cultivated lands in this area by diverting water from springs and a small dam which they built themselves. The reservoir had a capacity of approximately 67 acre feet. During the fiscal year 1922 funds were available for enlarging the reservoir to a capacity of 302 acre feet. Additional water was also developed by excavating a drain through the steep area adjacent to the springs and by constructing a diversion dam across the Pescado channel, in order to divert water when available.

Under the Public Works program, F. P. 260, a diversion dam was built across an arroyo adjacent to the Pescado for the purpose of diverting additional water to the reservoir. This project was completed during the fiscal year 1934. This should make the storage more effective. During 1933 the Indians cultivated a total of 388 acres under this project, and it is estimated that 400 acres can be successfully cultivated. The additional area is dependant upon water supply, as there is at least 2,000 acres of good land available.

Takapo

Approximately six miles below the Juni village the Indians irrigate about 170 acres of land by diverting water from the Juni River to a small

COPY

Commissioner of Indian Affairs 3
June 22, 1934

reservoir from which water is drawn for irrigation purposes. The water supply for this small project is return flow and springs which rise below the Suni dam. No work has been done by the United States on this project, and it is believed that some improvements should be made, consisting of better diversion facilities and increasing the storage capacity. The details of this, however, will be left to future investigation and a separate report is to be submitted.

Ojo Caliente

Ojo Caliente is situated about seventeen miles southwest of Suni Agency near the southwest corner of the reservation. Here, during 1933, the Indians had 225 acres under cultivation. They obtained the irrigation water supply from springs which were diverted into a storage reservoir, from which ditches have been constructed. No general construction has been done by the United States, except that certain flumes across arroyos have been constructed.

Under the Public Works program it is planned to dig drains through the swept and water-logged areas, which will probably triple the water supply, thus making sufficient water available for approximately 500 acres. Under the present conditions, the Indians do not have sufficient water for the area cultivated, which naturally reduces the crop return. It is possible that after construction approximately 400 acres can be cultivated. If Public Works funds now available are sufficient, it is planned to raise the storage dam, in order to get increased storage capacity.

Project Management

Under present management the project is under Mr. Fred E. Frost, Foreman, who is project manager. Mr. Frost's duties consist of complete charge of the Suni Project and assisting the Indians in the outlying projects in an advisory capacity. It is recommended that Mr. Frost be transferred to the Agency, with the title Reservation Irrigation Manager. Mr. Frost's position is on the Fifth Irrigation District's organization chart as Foreman, at \$135.00 a month. Under the new plan of organization, increased duties will be placed on Mr. Frost, and it is recommended that his salary be increased one step, or to \$140.00 a month.

Plan of Project Management

It is planned to have the irrigation work on the Suni Project directly under the reservation irrigation manager, who, in turn, is responsible to the superintendent of the reservation. Under this arrangement he will have charge of the management of the irrigation works. It is understood that the irrigation manager will work in close cooperation with the extension representative, so as to make the best use of the water available.

COPY

Commissioner of Indian Affairs 4
June 22, 1934

The Indians living in the various communities will be organized into water users' or farm unit organizations, with a view of securing their cooperation in handling the irrigation activities. In order to give the ditch foreman under each unit proper authority, it is proposed to have him elected or appointed by the local farm unit, with approval by the superintendent. The project foreman should be paid a salary commensurate with the duties performed. On the project under the Zuni dam it will be necessary to have a ditch foreman and an assistant employed continuously during the irrigation season of approximately five months. There is attached hereto organization chart of the irrigation management of the Zuni Reservation.

It is recommended that the salary of the ditch foreman of the Zuni division be placed at \$60.00 a month and the assistant's at \$50.00 a month. On the other divisions, including Nubria, Pascado, Tokape, and Ojo Caliente, the duties of ditch foreman will not require constant attention, and it is believed that this compensation should be approximately \$20.00 a month. This, however, is to be determined as the organization develops.

At the present time no operation and maintenance charges are collected from the Indians or from the Agency lands. The Indians, however, furnish most of the labor of canal cleaning. Under the new program it is recommended that a charge of \$5.00 an acre be assessed against the school farm, and that an appropriate allotment be made to the superintendent to pay this expense. For the present, it is recommended that all ordinary labor of operation, maintenance, and betterment of the project be performed by the Indians without compensation from the United States, in cooperation with their farm unit organizations, and that steps be taken toward having the Indians pay additional cash assessments to pay the cost of the ditch foreman and assistants. However, this may not be possible at the present time, but ultimately should be carried out, as the project is solely for the benefit of the Indians.

For the purpose of placing each of the projects on the Zuni Reservation on a basis whereby the acreage used by the individual Indian may be known to the Office and the irrigation manager, it is planned to have plans of each of the irrigation projects made, showing the acreage of the water users under the project, with a view to proportioning the water in an equitable manner and to secure a cost basis, so that it may be known to the Indian the amount that will be required of him when collections are begun for handling the O. & M. charges on the reservation.

The operation and maintenance program for the fiscal year 1934 has been submitted by the Supervising Engineer of the Fifth Irrigation District. This program will be followed.

COPY

Commissioner of Indian Affairs 5
June 22, 1934

Project Costs

At the end of the fiscal year ending June 30, 1933, there had been a total construction expenditure of \$608,032.78 for irrigation on the Zuni Reservation, and \$129,529.90 for operation and maintenance. It is estimated that the operation and maintenance charges for the fiscal year 1934 will be \$7,950.20, with the estimated total of \$137,480.10 for operation and maintenance. The above figures of construction and operation and maintenance under present law are reimbursable. It is planned to submit a recommendation to the Office at an early date to cancel most of the construction charges and all of the operation and maintenance charges. This will be the subject of a joint report by the Superintendent and the Supervising Engineer.

Under the present Public Works program there is an authorization of \$5,000.00 under F. P. 258, Gjo Caliente; \$55,000.00 under F. P. 258, Zuni storage and flood control; and \$4,000.00 under F. P. 260, Upper Pecos. These funds are not reimbursable and are not included in the above construction costs.

The transfer of the Public Works funds is not contemplated under this program, as this is construction work and will continue to be handled by the Fifth Irrigation District. It is not contemplated to transfer any funds now allotted to Special Districting Agent Ivan F. Albers, but it is recommended that the appropriation of \$4,000.00 for the fiscal year 1935 be allotted to Superintendent Trotter.

Transfer of Property

The property to be transferred to the Agency consists of all buildings, one pick-up automobile, and other miscellaneous tools and equipment as evidenced by the property records in the office of the Fifth Irrigation District.

As to the matter of quarters occupied by Irrigation employees at the Agency, an approved charge has been set for the house now occupied by Fred E. Frost, Irrigation Manager, and it is recommended that this method of charging for quarters be continued in accordance with General Accounting Office's decision.

Reports

Reports of projects to be made direct to the Washington Office are to include the cost report, regular monthly report, reservoir operations,

COPY

Commissioner of Indian Affairs 6
June 22, 1934

including silt deposits, and water reports. Copies of the regular monthly narrative report and the reservoir and silt reports are to be sent to the Supervising Engineer, at Albuquerque, New Mexico.

Respectfully submitted,

H. C. HEUFFER,
Supervising Engineer

G. A. TROTTER,
Superintendent

F. ELIAS HIBSON,
Extension Agent

FRED E. FROST,
Irrigation Manager

COPY

Superintendent

Resurrection Irrigation Manager

East Division

1 Ditch Foreman

2 Assistant

North Division

1 Ditch Foreman

Pasadena Division

1 Ditch Foreman

Tempe Division

2 Ditch Foreman

0/0 Caliente Division

2 Ditch Foreman

COPY

Irrigation
10162-32

Cross reference
See Pine River file

District No. 5
Albuquerque, New Mexico

June 18, 1934

Commissioner of Indian Affairs
Washington, D. C.

Dear Sir:

Reference is made to circular letter to all supervising engineers of June 15, 1934, pertaining to Circular No. 2979, dated February 12, 1934, relative to the reorganization of the Irrigation Division. It is noted that in the list of projects to be transferred to reservation superintendents as of July 1, 1934, are included Consolidated Ute, Colorado, and Zuni Project, New Mexico, of the Fifth District.

A conference has been arranged with Superintendent Trotter of Zuni Reservation to be held in Albuquerque this week, and all matters pertaining to the transfer of the Zuni Project to the superintendent will be consummated. Our Public Works program on the Zuni Reservation will in no way interfere with the operation of the project, and there seems to be no reason why the transfer should not be made.

As to Consolidated Ute Project, Colorado, it is assumed that this refers to the Pine River Project as well as the projects on the Piedra and La Plata streams. It is felt that it would be inadvisable to transfer the Pine River Project to the Agency at this time, as the reconstruction of this project so closely fits in with the actual operation and maintenance that there will, undoubtedly, be considerable conflict. In fact, it would be necessary to construct this project during the irrigation season, and everything should be under one management. It is recommended that the transfer of this particular project be postponed until completion of construction, which, if the additional \$125,000 requested is made available, will not be until the end of the fiscal year 1936.

Respectfully submitted,

H. C. NEUFFER,
Supervising Engineer.

HCN/AIR

COPY

REFER IN REPLY TO THE FOLLOWING:

Irrigation
10162-32

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF INDIAN AFFAIRS
WASHINGTON

reuffer
JUN 15 1934

JUN 18 1934

To all Supervising Engineers:

Reference is made to Circular No. 2979 dated February 12, 1934, relative to reorganization of the Irrigation Division.

It is believed the operation and maintenance of the following projects together with such others as may be readily transferred should be turned over to the reservation Superintendents for field administration as of July 1, 1934:

Papago Indian Villages, Arizona
Ak Chin, Arizona
Chin Chui, Arizona
San Carlos Reservation, Arizona
Coachella Valley, California
La Jolla, California
Mariposa, California
Pala and Mission, California
Consolidated Ute, Colorado
Western Shoshone, Nevada - Idaho
Colville, Washington
Fort Belknap, Montana
Fort Peck, Montana
Crow, Montana
Fremont Lake, Nevada
Lund, New Mexico
Elsworth, Oregon
Lummi, Washington

You are requested to prepare the operation and maintenance program, copy of which should be furnished the Superintendent who has jurisdiction over the particular project, and every effort should be made to acquaint them with project problems. Steps will be taken looking toward the transfers of the present employees from the irrigation organization to the agencies.

In the event you consider the field administration of any of these projects should be continued as at present beyond July 1, 1934, it is desired that you immediately prepare and forward a report setting out the reasons therefor.

Arrangements should also be made looking toward the turning over to the Agencies of such records and reports as will necessarily have to be transferred on account of these changes.

COPY

This does not relieve the Irrigation Division from engineering supervision on the projects turned over to the Agencies, and you are to cooperate in every way possible with the Superintendents on all matters pertaining to the irrigation projects.

(Signed) John Collier
Commissioner.

Sent to:

Supervising Engineer L. H. Holt
*
* W. D. Hunt
*
* C. A. Doyle
*
* H. C. Huffner

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF INDIAN AFFAIRS
FIELD SERVICE

Zuni Indian Agency,
Zuni, New Mexico,
February 24, 1934.

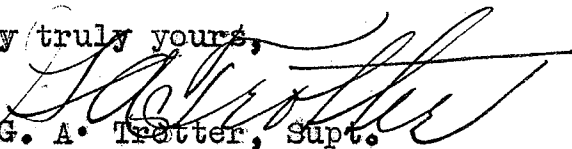
FEB 28 1934

Mr. H. C. Neuffer,
Supervising Engineer,
Irrigation Department,
Albuquerque, N. M.

Dear Mr. Neuffer:

In Circular No. 2979 dated February 12, 1934, it is stated that a meeting should be held with you and the local agency force, including the engineer in charge of the project on a reservation, at as early a date as possible, for the purpose of submitting a plan for putting the provisions of this circular into effect. Shall be glad to arrange this whenever it would best suit your convenience and at Albuquerque or Gallup. It is supposed that you will have similar meetings with the superintendents adjacent to Gallup and if you plan on holding these in Gallup, would think these could be arranged so that they could be held at approximately the same date. However it is planned, shall be glad to arrange to meet you.

Very truly yours,


G. A. Trotter, Supt.

COPY

Irrigation

Circular No. 2979
Irrigation
Reorganization.

Zuni Indian Agency,
Zuni, New Mexico,
February 24, 1934.

Commissioner of Indian Affairs,
Washington, D. C.

Dear Sir:

Receipt is acknowledged of Circular No. 2979
dated February 12, 1934.

The Circular is well understood and the
Supervising Engineer has been requested to advise
when a meeting may be held with the local force
to discuss the recommendations to be made for
placing this plan in effect for the Zuni Reser-
vation as instructions are given by this Circular.

Very truly yours,

G. A. Trotter, Supt.

cc to Mr. Neuffer,
Supervising Engineer.

COPY

Zuni

Fifth Irrigation District
Albuquerque, New Mexico
March 3, 1934

Mr. G. A. Trotter, Supt.
Zuni Indian Agency
Zuni, New Mexico

Dear Mr. Trotter:

With reference to your letter of February 24, 1934, pertaining to office Circular 2979 of February 12, 1934, wish to advise that as soon as possible I intend to have a conference with all Superintendents regarding this matter, but inasmuch as the change is not to be effective until our construction work is done, there seems to be no great rush.

However, it is possible that beginning July 1, we will turn over the Zuni project to you. These matters will probably be discussed at the Navajo Council when I expect to be in that area.

Very truly,

H. C. NEUFFER
Supervising Engineer

HON-a

COPY

Polacca, Arizona
August 14, 1933

AUG 14 1933

Mr H.C.Neuffer
Supervising Engineer
Albuquerque, N.M.

Dear Mr Neuffer:


This refers to your letter of August 10 relative to re-allotment of funds(\$800.00) for the completion of Suni Water supply.

This is extremely gratifying, as it will enable us to complete the job as originally planned. It is always humiliating to run short of funds when it effects the proper completion of work. It just happens that there was a false estimate made on this work at the beginning, and when the office made the withdrawal it left us short of the necessary amount to properly complete the work.

We appreciate the effort of your office and the Indian office in making it possible to finish this job in a workmanlike manner.

Please advise if I am to further direct this work.

Very truly yours



A.H. Womack
Gen. Foreman

COPY

Zuni Indian Agency
Zuni, New Mexico

Aug 16 1933

August 11, 1933

Commissioner of Indian Affairs
Washington, D. C.

Dear Sir:

Mr. H. C. Neuffer, Supervising Engineer, requested \$800 to complete the water system at Zuni. He was informed two weeks ago that the pump house was incomplete and without a roof, and he stated that he would wire your Office with reference to the necessity of completing the work at the spring.

To date nothing has been done and the heavy rains have damaged the incompleted construction, and unless this work is finished at once serious damage will result, not only to the equipment there but to the construction work which is not properly protected.

Very truly yours,

T:R

G. A. Trotter, Supt.

cc H. C. Neuffer, Supervising Engineer

COPY

District No. 5
Albuquerque, New Mexico

August 10, 1933

Memorandum to Mr. A. H. Womack

This is to notify you that I have today received an allotment of \$800.00 to continue work on the water supply system at Zuni.

Iven F. Albers,

Principal Clerk & S. D. A.

CC - Supt. G. A. Trotter,
Zuni Agency
Zuni, New Mexico

CC - H. C. Neuffer, Supervising Engineer
Albuquerque, New Mexico

COPY

Fifth Irrigation District

Govt. Night Rate Collect

Indian Office
Washington, D. C.

Albuquerque, N.M.
July 28, 1933

REFERENCE MY LETTER JUNE TWENTYTHIRD FILE FORTYTWO EIGHT TWENTYFOUR DASH
THIRTYONE ZUNI DOMESTIC WATER SUPPLY PROJECT INCOMPLETE AND NEED ADDITIONAL
EIGHT HUNDRED DOLLARS TO MAKE ADEQUATE WATER SUPPLY AVAILABLE SCHOOL NEEDS
THE WATER

Neuffer

COPY

Emerl-Con.

18046-35

26923-35

J F K

6

Mr. G. A. Trotter,

JUN 24 1933

Supt., Zuni Agency.

Dear Mr. Trotter:

The Office has the report of June 15, signed by Engineer G. A. Burnas and Assistant Forest Engineer D. J. Rierdon, and concurred in by Forest Ranger Robert Holtz, outlining the projects that it is proposed to undertake on the Zuni Reservation under the Emergency Conservation Act.

The truck trails listed under "A" as 1 to 5 are all approved except No. 1. You state that No. 1 will eventually be a primary road. Work on this road can be approved only to the extent that may be necessary to make it practicable to haul men and supplies over the trail to accomplish the other Emergency Conservation Work to be done at the south end of the trail. Generally speaking, the work on this trail should be deferred until road funds are available.

The horse and man trails listed under "B" are all approved. The range improvements listed under "C" are approved. The projects listed as corrals Nos. 1 to 7 inclusive are all approved except Nos. 2 and 5, which seem directed exclusively to the livestock management and not to range control. It is understood that Nos. 1, 3, 4, 5, and 6 are inexpensive structures, designed to facilitate the counting of stock on and off the Reservation, and thus to contribute to the proper range control.

The projects listed under "posting and clearing stock driveways", Nos. 1 to 3 inclusive, are approved. The projects listed under "range water improvement reservoirs" are all approved with the understanding that the wells to be dug are shallow and primarily needed for range control purposes. The projects listed under "D -- miscellaneous construction" are also approved, as is the one listed under "E -- public camp grounds."

Some of the projects listed under "C" are questionable. For instance, No. 1 appears to be a flood control project rather than an erosion control project, and the administration has definitely decided that flood control will not be undertaken under the Emergency Conservation Act but may be undertaken under the Public Works Act. Accordingly, No. 1 can not be approved. Nos. 2 to 7 inclusive are approved with the understanding

COPY

Zuni Agency.

that where the word "flood control" is used in these projects, it really refers to the checking of the rapid flow of water from areas, so as to prevent erosion.

The rodent control work is approved.

Sincerely yours,

(Signed) John Collier
Commissioner.

Copy to C. A. Burns, Federal Bldg., Annex, Albuquerque, N. M.

6-rab-22

COPY

District No. 5
Albuquerque, New Mexico

June 23, 1935

Commissioner of Indian Affairs
Washington, D. C.

Dear Sir:

This has reference to Office journal voucher 1752, file 42824-31, pertaining to water supply for Zuni School and Agency, 1933-1934, appropriation "4(3&4)793.199 Indian Agency Buildings, Zuni Water Supply, 1933-1934."

This work is nearing completion, but on account of unforeseen conditions in the stream bed it will not be possible to complete it within the allotment of \$8,000. It is understood that the appropriation for this work was \$8,800, and it is requested that an additional allotment of \$800 be made to Special Disbursing Agent Ivan F. Albers in order that the work may be completed. If it is not possible to obtain these funds the work will have to be suspended and the water development left incomplete.

Very truly yours,

H. C. Neuffer,
Supervising Engineer.

Copy to Supt. G. A. Trotter

HCN/ALR

COPY

Emergency Conservation.

Zuni Indian Agency,
Zuni, New Mexico,
June 15, 1933.

The Commissioner of Indian Affairs,

Washington, D. C.

Sir:

In compliance with Office letter of May 10, 1933, Forestation, pertaining to the emergency conservation work to be done in accordance with the Act of March 31, 1933, Public No. 5, 73rd Congress, 1st Session, we are submitting for Office approval the following program of work for the Zuni Indian Reservation.

In preparing the program for Office approval the Superintendent and his local staff concur with the writers, and practically all of the information was furnished by them. From our intimate knowledge of the Zuni Reservation, work on the projects outlined could be started as soon as funds are available, however, some detail engineering work will be necessary in laying out projects by competent engineers.

It is planned that each member of the coordinating force will visit the Reservation and it may be found that minor changes will be necessary during the progress of the work.

We are enclosing copies of the map outlining the work as approved.

PROJECTS APPROVED.

A. Truck Trails:

- (1) From a point on the Zuni Gallup Highway 1/4 mile east of Horse Head Canyon thence in a southerly direction to the south Reservation boundary line near the south center 1/4 corner between Sections 20 and 29 Township 8 north Range 17 west, approximate distance 16 miles.
- (2) From the Zuni Village south to Section 23 Township 9 north Range 19 west thence southeast connecting with Truck Trail No. 1 about 2 miles north of south terminal approximately 25 miles.

COPY

- (3) From the Caliente Village in an easterly direction connecting with Truck Trail No. 2 in Section 11 Township 8 north Range 19 west, approximate distance 10 miles.
- (4) Takes off from the Zuni Ranch road approximately 1 mile east of Pescado Village thence in a northerly direction three miles thence northwest 10 miles connecting with the Zuni Natria road in the east 1/2 of Section 27 Township 12 north Range 17 west, approximate distance 15 miles.
- (5) From Pescado Village southwest via Jacks Lake to boundary between Zuni Reservation and Cibola National Forest in Section 24 Township 9 north Range 17 west. From this point there is a Truck Trail leading through the National Forest to the Reservation boundary line in Section 34 Township 9 north Range 17 west thence west 1 mile to Truck Trail No. 1 approximately 5 miles north of south terminal, a distance of 12 miles.

Note: Road No. 1 will eventually be a primary road, but it will be necessary at the present time to construct a Truck Trail for administration of the present conservation program.

B. Horse and Man Trails:

- (1) From a point on Old Wagon road in Section 21 Township 9 north Range 18 west running in a southeasterly direction 5 miles.
- (2) From point on old Wagon road in Section 27 Township 9 north Range 18 west running southeast approximately 5 miles.
- (3) From a point on Old Wagon road in Section 14 Township 9 north Range 19 west running in a southeasterly direction 3 miles thence south 3 miles.

C. Range Improvement:

Fencing

- (1) From the northeast corner of Reservation south to southeast corner thence west along south boundary line to 1/4 corner between Sections 18 and 24 Township 8 north Ranges 18 and 19 west.
- (2) From southwest corner of Reservation north to the

northwest corner along State line thence northeast along Reservation line to northeast corner of Township 10 north Range 19 west thence east on Range line to northeast corner Section 6 on Township line between 10 and 11 north Range 18 west thence north to the northwest corner of Section 7 Township 11 north Range 18 west thence east 1 mile to the northeast corner of Section 7 thence north 1 mile to the northwest corner Section 5 thence east 4 miles to the southwest corner of Township 12 north Range 17 west thence north 6 miles to the northwest corner of Township 12 Range 17 west thence east 8 miles to the northeast corner of the Reservation.

Corrals

- (1) Section 5 Township 12 north Range 17 west, stock driveway counting corral.
- (2) Section 4 Township 11 north Range 17 west at dipping vat.
- (3) Section 5 Township 10 north Range 16 west, stock driveway counting corral.
- (4) South terminal of Truck trail No. 1, stock driveway counting corral.
- (5) Where Zuni Gallup Highway leaves the north Reservation boundary line in Section 5 Township 11 north Range 18 west, stock driveway counting corral.
- (6) Where Zuni St. Johns road crosses west Reservation boundary line in Section 10 Township 9 north Range 21 west, stock driveway counting corral.
- (7) At Gallente Sheep Dip in Section 21 Township 8 north Range 20 west.

Posting and Clearing Stock Driveways

- (1) Along Truck Trail No. 4 extending north to boundary line in Section 5 Township 12 north Range 17 west.
- (2) Along Truck Trail No. 1 extending north along Zuni

Gallup Highway to north boundary of Reservation in Section 5 Township 11 north Range 17 west.

- (3) From Reservation boundary line in Section 2 Township 10 north Range 19 west extending southwest along the old Gallup Zuni road to Zuni thence west along old Zuni St. Johns road to Reservation line in Section 10 Township 9 north Range 21 west.

Note: The main expense on stock driveways will be posting.

Range Water Improvement

Reservoirs

- (1) On the accompanying map there have been 27 reservoir sites tentatively located which will be used for stock water purposes, however, it is not believed that more than 1/2 of these will be constructed and these only after careful examination and surveys of field conditions. It is estimated that approximately 15 reservoirs, properly located, will be all that is needed.

Springs

- (1) There are some 26 springs located on the map to be developed for stock and domestic water supply. Of this number about 20 springs will be fully developed for stock purposes.

Dug Wells

- (1) There are 7 dug wells indicated on the map along the Zuni River. These are to be used for stock and domestic purposes.

Note: It is possible that some of the reservoirs constructed will be for erosion control in the head waters of the tributaries to the Zuni River.

D. Miscellaneous Construction:

Administration and Fire Guard Cabins

- (1) To be located in Section 21 Township 8 north

Range 20 west.

- (2) To be located southwest corner Township 9 north Range 7 west.

Telephone Lines

- (1) From the Zuni Ramah line at Pescado following Truck Trail No. 4 to Day School at Nutria, a distance of approximately 15 miles.

E. Public Camp Grounds:

- (1) Clearing grounds in Nutria Canyon and developing water at spring for public use.

G. Erosion Control:

During the past few years erosion control has been the major project under consideration by the Indian Service. This was done in order to protect the Zuni reservoir which was practically filled with silt. All of the work to date has been confined to the Nutria Canyon, the main tributary to the Zuni River.

The main projects built consist of a check dam built across the stream bed about 9 miles above the Zuni reservoir. The check dam was constructed of wire baskets. The elevation of the spillway was 10 ft. above the stream bed and a 40 ft. spillway was provided. A recent survey shows that 130 acre ft. of silt has been deposited back of this check dam and the deposit extends up stream for a distance of 3 miles. This has corrected side erosion for some distance above the dam.

During the past season a flood control dam was built across the Nutria Canyon creating a reservoir of 3,050 acre ft. capacity. A 24 inch conduit through the dam provides for the discharge of water as the reservoir fills. The maximum discharge through the conduit at spillway elevation was 100 cu.ft. per sec. The estimated maximum flood is about 1,000 cu.ft. per second. The impounding reservoir being located at the upper reaches of the main point of erosion on the Zuni River will break up the maximum flood head

and it is believed that by placing small checks between this dam and to the confluence of Nutria and Pescado that the silt problem will be solved through this area.

It is hoped that funds from the conservation program will permit us to continue this work.

- (1) Flood control reservoir to be built across the Zuni River 3 miles east of the Zuni dam at Black-rock. This would temporarily impound the flood water of the Zuni and Pescado Rivers and permit of the continuing of sluicing operations at the Zuni reservoir to a much better advantage than we have heretofore been able to do. By reducing the flow from a maximum of approximately 1500 cu.ft. per sec. to 200 cu.ft. per sec. we would be able to control and direct the flow of water for sluicing operations. During the calendar year 1931, 1,000,000 cu.yd. were sluiced from the Zuni reservoir and it is believed that the capacity of the reservoir would be greatly increased each year over that of 1931. It is estimated that about \$7,000 would be required to construct this dam and it is requested that Office approval be given this project and construction work will be withheld until such approval has been given.
- (2) A small impounding reservoir at the mouth of Horse Head Canyon.
 - 1-a Check dam across the main wash through Horse Head Canyon about 5 miles above the mouth of the Canyon.
 - 2-a Small brush and rock dams at the head of tributaries to the Canyon.
- (3) Check dam at the mouth of the Canyon leading north from the upper end of the flood control reservoir on the Nutria River. This is one of the main tributaries to the Zuni River.
 - 1-a Small brush and rock dams in the upper reaches from small tributaries to this canyon.
- (4) Small impounding reservoir about 4 miles west of the Nutria Village on the Nutria River. At this point there is a Canyon coming in from the north which carries considerable silt.

- 1-a A check dam would be built at the mouth of the Canyon as described above.
- 2-a Small brush and rock dams from the tributaries to this Canyon.
- (5) Two check dams across arroyo flowing immediately adjacent to and in a westerly direction through the Caliente Village. This Canyon has eroded to a depth of approximately 30 ft. and unless steps are immediately taken to correct this situation it may mean the loss of springs which are the source of the main water supply to the Caliente district.
- (6) If ground conditions permit it is planned to construct a small flood impounding reservoir on the main tributary to this Canyon. Surveys are being made at the present time to determine if this is practical.
- (7) Small flood control impounding reservoirs near the Tekope Village.

Rodent Control:

- (1) It is estimated that 80,000 dog acres are on the Reservation as contained in a report made by the Biological Survey. The eastern half of the Reservation is heavily infested, but it is believed that funds are available to complete all work necessary.

Equipment:

The following equipment will be necessary to carry on the work:

- 1 Tractor, crawler type, of 50 H.P. or larger.
1 Grader, 12-ft., leaning wheel type.
1 Rotary Fresno Scraper, 2-yard.
1 Rod Ripper to be used with tractor of 50 H.P. or larger.
6 Trucks, 1-1/2-ton, stake body, with cab.
4 Trucks, 1/2-ton.
2 Dump Trucks, 1-1/2-ton, 2-cu.yd., heavy duty hydraulic.
4 Coupes with pick-up body on back.
1 300 or 400 gal. water tank, to be mounted on one of the above 1-1/2-ton trucks.
1 Air Compressor, 260 cu.ft., with 2 drills and necessary steel and air hose.
1 5-Ton Truck on which mount compressor unit.

COPY

All projects as shown on the accompanying map are tentatively located and it is planned to place competent engineers in the field as soon as funds are available to make final locations before work is started.

In view of the fact that final instructions have not been received from the Office this program will be modified later, if necessary, to comply with Office instructions.

Respectfully,

C. A. Burns,
Engineer.

Dewey J. Rierdon,
Asst. Forest Engineer.

We concur in
the above report:

(signed) G. A. Trotter,
Superintendent.

(signed) Robert Holtz,
Forest Ranger.

C.C.--G. A. Trotter
Robert Holtz
H. C. Neuffer
F. M. Wilkes
E. A. Johnson
A. H. Womack

COPY

Emergency Conservation.

Zuni Indian Agency,
Zuni, New Mexico,
June 15, 1933.

The Commissioner of Indian Affairs,

Washington, D. C.

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It is planned that each member of the coordinating force will visit the Reservation and it may be found that minor changes will be necessary during the progress of the work.

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PROJECTS APPROVED.

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- (2) From the Zuni Village south to Section 33 Township 9 north Range 19 west thence southeast connecting with Truck Trail No. 1 about 2 miles north of south terminal approximately 25 miles.

COPY

- (3) From the Caliente Village in an easterly direction connecting with Truck Trail No. 2 in Section 11 Township 8 north Range 19 west, approximate distance 10 miles.
- (4) Takes off from the Suni Ramah road approximately 1 mile east of Peseado Village thence in a northerly direction three miles thence northwest 10 miles connecting with the Suni Nutria road in the east 1/2 of Section 27 Township 12 north Range 17 west, approximate distance 13 miles.
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G. Erosion Control:

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The main projects built consist of a check dam built across the stream bed about 9 miles above the Zuni reservoir. The check dam was constructed of wire baskets. The elevation of the spillway was 10 ft. above the stream bed and a 40 ft. spillway was provided. A recent survey shows that 150 acre ft. of silt has been deposited back of this check dam and the deposit extends up stream for a distance of 3 miles. This has corrected side erosion for some distance above the dam.

During the past season a flood control dam was built across the Nutria Canyon creating a reservoir of 3,050 acre ft. capacity. A 24 inch conduit through the dam provides for the discharge of water as the reservoir fills. The maximum discharge through the conduit at spillway elevation was 100 cu.ft. per sec. The estimated maximum flood is about 1,000 cu.ft. per second. The impounding reservoir being located at the upper reaches of the main point of erosion on the Zuni River will break up the maximum flood head

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The following equipment will be necessary to carry on the work:

- 1 Tractor, crawler type, of 50 H.P. or larger.
- 1 Grader, 12-ft., leaning wheel type.
- 1 Rotary Fresno Scraper, 2-yard.
- 1 Red Ripper to be used with tractor of 50 H.P. or larger.
- 6 Trucks, 1-1/2-ton, stake body, with cab.
- 4 Trucks, 1/2-ton.
- 2 Dump Trucks, 1-1/2-ton, 2-cu.yd., heavy duty hydraulic.
- 4 Coupes with pick-up body on back.
- 1 300 or 400 gal. water tank, to be mounted on one of the above 1-1/2-ton trucks.
- 1 Air Compressor, 250 cu.ft., with 2 drills and necessary steel and air hose.
- 1 3-Ton Truck on which mount compressor unit.

COPY

All projects as shown on the accompanying map are tentatively located and it is planned to place competent engineers in the field as soon as funds are available to make final locations before work is started.

In view of the fact that final instructions have not been received from the Office this program will be modified later, if necessary, to comply with Office instructions.

Respectfully,

C. A. Burns,
Engineer.

Dewey J. Rierdon,
Asst. Forest Engineer.

We concur in
the above report:

(signed) G. A. Trotter,
Superintendent.

(signed) Robert Holts,
Forest Ranger.

C.C.--G. A. Trotter
Robert Holts
H. C. Neuffer
F. M. Wilkes
H. A. Johnson
A. H. Womack

COPY

Emergency Conservation.

Zuni Indian Agency,
Zuni, New Mexico,
June 15, 1933.

The Commissioner of Indian Affairs.

Washington, D. C.

Sir:

In compliance with Office letter of May 10, 1933, Forestation, pertaining to the emergency conservation work to be done in accordance with the Act of March 31, 1933, Public No. 5, 73rd Congress, 1st Session, we are submitting for Office approval the following program of work for the Zuni Indian Reservation.

most In preparing the program for Office approval the Superintendent and his local staff concur with the writers, and ~~practically all~~ of the information was furnished by them. From our intimate knowledge of the Zuni Reservation, work on the projects outlined could be started as soon as funds are available, however, some detail engineering work will be necessary in laying out projects by competent engineers.

It is planned that each member of the coordinating force will visit the Reservation and it may be found that minor changes will be necessary during the progress of the work.

We are enclosing copies of the map outlining the work as approved.

PROJECTS APPROVED.

A. Truck Trails:

- (1) From a point on the Zuni Gallup Highway 1/4 mile east of Horse Head Canyon thence in a southerly direction to the south Reservation boundary line near the south center 1/4 corner between Sections 20 and 29 Township 8 north Range 17 west, approximate distance 18 miles.
- (2) From the Zuni Village south to Section 33 Township 9 north Range 19 west thence southeast connecting with Truck Trail No. 1 about 2 miles north of south terminal approximately 25 miles.

COPY

- (3) From the Caliente Village in an easterly direction connecting with Truck Trail No. 2 in Section 11 Township 8 north Range 19 west, approximate distance 10 miles.
- (4) Takes off from the Zuni Ramah road approximately 1 mile east of Pescado Village thence in a northerly direction three miles thence northwest 10 miles connecting with the Zuni Nutria road in the east 1/2 of Section 27 Township 12 north Range 17 west, approximate distance 13 miles.
- (5) From Pescado Village southwest via Jacks Lake to boundary between Zuni Reservation and Cibola National Forest in Section 24 Township 9 north Range 17 west. From this point there is a Truck Trail leading through the National Forest to the Reservation boundary line in Section 34 Township 9 north Range 17 west thence west 1 mile to Truck Trail No. 1 approximately 5 miles north of south terminal, a distance of 12 miles.

Note: Road No. 1 will eventually be a primary road, but it will be necessary at the present time to construct a Truck Trail for administration of the present conservation program.

B. Horse and Man Trails:

- (1) From a point on Old Wagon road in Section 21 Township 9 north Range 18 west running in a southeasterly direction 5 miles.
- (2) From point on Old Wagon road in Section 17 Township 9 north Range 18 west running southeast approximately 5 miles.
- (3) From a point on Old Wagon road in Section 14 Township 9 north Range 19 west running in a southeasterly direction 3 miles thence south 3 miles.

C. Range Improvement:

Fencing

- (1) From the northeast corner of Reservation south to southeast corner thence west along south boundary line to 1/4 corner between Sections 18 and 24 Township 8 north Ranges 18 and 19 west.
- (2) From southwest corner of Reservation north to the

northwest corner along State line thence northeast along Reservation line to northeast corner of Township 10 north Range 19 west thence east on Range line to northeast corner Section 6 on Township line between 10 and 11 north Range 18 west thence north to the northwest corner of Section 7 Township 11 north Range 18 west thence east 1 mile to the northeast corner of Section 7 thence north 1 mile to the northwest corner Section 5 thence east 4 miles to the southwest corner of township 12 north Range 17 west thence north 6 miles to the northwest corner of Township 12 Range 17 west thence east 8 miles to the northeast corner of the Reservation.

Corrals

- (1) Section 5 Township 12 north Range 17 west, stock driveway counting corral.
- (2) Section 4 Township 11 north Range 17 west at dipping vat. and these only after careful examination and survey of field conditions. It is estimated.
- (3) Section 5 Township 10 north Range 16 west, stock driveway counting corral.
- (4) South terminal of Truck Trail No. 1, stock driveway counting corral.
- (5) Where Zuni Gallup Highway leaves the north Reservation boundary line in Section 5 Township 11 north Range 18 west, stock driveway counting corral.

- bag walls
- (6) Where Zuni St. Johns road crosses west Reservation boundary line in Section 10 Township 9 north Range 21 west, stock driveway counting corral.

- (7) At Caliente Sheep Dip in Section 21 Township 8 north Range 20 west.

Pesting and Clearing Stock Driveways

- (1) Along Truck Trail No. 4 extending north to boundary line in Section 5 Township 12 north Range 17 west.
- (2) Along Truck Trail No. 1 extending north along Zuni

Range 20 west.

- (2) To be located southwest corner Township 9 north Range 7 west.

Telephone Lines

- (1) From the Zuni Ramada line at Pescado following Truck Trail No. 4 to Day School at Nutria, a distance of approximately 15 miles.

E. Public Camp Grounds:

- (1) Clearing grounds in Nutria Canyon and developing water at spring for public use.

G. Erosion Control:

During the past few years erosion control has been the major project under consideration by the Indian Service. This was done in order to protect the Zuni reservoir which was practically filled with silt. All of the work to date has been confined to the Nutria Canyon, the main tributary to the Zuni River.

The main projects built consist of a check dam built across the stream bed about 9 miles above the Zuni reservoir. The check dam was constructed of wire baskets. The elevation of the spillway was 10 ft. above the stream bed and a 40 ft. spillway was provided. A recent survey shows that 130 acre ft. of silt has been deposited back of this check dam and the deposit extends up stream for a distance of 3 miles. This has corrected side erosion for some distance above the dam.

During the past season a flood control dam was built across the Nutria Canyon creating a reservoir of 3,050 acre ft. capacity. A 24 inch conduit through the dam provides for the discharge of water as the reservoir fills. The maximum discharge through the conduit at spillway elevation was 100 cu.ft per sec. The estimated maximum flood is about 1,000 cu.ft. per sec. The impounding reservoir being located at the upper reaches of the main point of erosion on the Zuni River will break up the maximum flood head and it is believed that by

COPY

placing small checks between this dam and to the confluence of Nutria and Pescado that the silt problem will be solved through this area.

It is hoped that funds from the conservation program will permit us to continue this work.

- (1) Flood control reservoir to be built across the Zuni River 3 miles east of the Zuni dam at Black-rock. This would temporarily impound the flood water of the Zuni and Pescado Rivers and permit of the continuing of sluicing operations at the Zuni reservoir to a much better advantage than we have heretofore been able to do. By reducing the flow from a maximum of approximately 1500 cu.ft. per sec. to 200 cu.ft per sec. we would be able to control and direct the flow of water for sluicing operations. During the calendar year 1931, 1,000,000 cu.yd. were sluiced from the Zuni reservoir and it is believed that the capacity of the reservoir would be greatly increased each year over that of 1931. It is estimated that about \$7,000 would be required to construct this dam and it is requested that Office approval be given this project and construction work will be withheld until such approval has been given.
- (2) A small impounding reservoir at the mouth of Horse Head Canyon.
 - 1-a Check dam across the main wash through Horse Head Canyon about 5 miles above the mouth of the Canyon.
 - 2-a Small brush and rock dams at the head of tributaries to the Canyon.
- (3) Check dam at the mouth of the Canyon leading north from the upper end of the flood control reservoir on the Nutria River. This is one of the main tributaries to the Zuni River.
 - 1-a Small brush and rock dams in the upper reaches from small tributaries to this canyon.
- (4) Small impounding reservoir about 4 miles west of the Nutria Village on the Nutria River. At this point there is a Canyon coming in from the north which carries considerable silt.

COPY

- 1-a A check dam would be built at the mouth of the Canyon as described above.
- 2-a Small brush and rock dams from the tributaries to this Canyon.
- (5) Two check dams across arroyo flowing immediately adjacent to and in a westerly direction through the Caliente Village. This Canyon has eroded to a depth of approximately 30 ft. and unless steps are immediately taken to correct this situation it may mean the loss of springs which are the source of the main water supply to the Caliente district.
- (6) If ground conditions permit it is planned to construct a small flood impounding reservoir on the main tributary to this Canyon. Surveys are being made at the present time to determine if this is practical.
- (7) Small flood control impounding reservoirs near the Tehopo Village.

Rodent Control:

- (1) It is estimated that 80,000 dog acres are on the Reservation as contained in a report made by the Biological Survey. The eastern half of the Reservation is heavily infested, but it is believed that funds are available to complete all work necessary.

Equipment:

The following equipment will be necessary to carry on the work:

- 1 Tractor, crawler type, of 50 H.P. or larger.
- 1 Grader, 12-ft. leaning wheel type.
- 1 Rotary Fresno Scraper 2-yd.
- 1 Red Ripper to be used with tractor of 50 H.P. or larger.
- 6 Trucks, 1-1/2-ton, stake body with cab.
- 4 Trucks, 1/2-ton.
- 2 Dump Trucks, 1-1/2-ton, 2-cu.yd., heavy duty hydraulic.
- 4 Coupes with pick-up body on back.
- 1 300 or 400 gal. water tanks to be mounted on one of the above 1-1/2-ton trucks.
- 1 Air Compressor, 250 cu.ft., with 2 drills and necessary steel and air hose.
- 1 3-ton truck on which mount compressor unit.

All projects as shown on the accompanying map are tentatively located and it is planned to place competent engineers in the field as soon as funds are available to make final locations before work is started.

In view of the fact that final instructions have not been received from the Office this program will be modified later, if necessary, to comply with Office instructions.

Respectfully,

C. A. Burns,
Engineer.

Dewey J. Rierdon,
Asst. Forest Engineer.

We concur in
the above report:

(signed) G. A. Trotter,
Superintendent.

(signed) Robert Holtz,
Forest Ranger.

c.c.--G. A. Trotter
Robert Holtz
H. C. Neuffer
F. M. Wilkes
E. A. Johnson
A. H. Womack

COPY

June 2, 1933

Mr. G. A. Trotter
Supt., Zuni Agency

Dear Mr. Trotter:

In connection with the work to be done under the Emergency Conservation Act on the Zuni Reservation, arrangements have been made for the purchase of wire and staples for the construction of 100 miles of barbed wire fence with four wires. Construction of the fence should not be undertaken until the fencing projects have been discussed with Mr. E. A. Johnson and approved by Mr. H. C. Neuffer, Coordinating Officer for the Albuquerque District.

You should arrange at once for the cutting of a large number of fence posts, so that they will be partly seasoned before the construction work is begun.

Payment for the wire and staples and such iron posts as shall be needed will be made from the allotment of this fund to the Zuni Agency.

Sincerely,

John Collier
Commissioner

Copy to Mr. E. A. Johnson
Mr. F. M. Wilkes
Mr. H. C. Neuffer

5-261-31

COPY

POSTAL

Indian Office

Gen. Exp. I.S. 1933.

DAY

Washington, D.C.
March 22, 1933.

RECEIVED
MAR 22 1933

H. C. Neuffer, Supervising Engineer,
Rosenwald Building,
Albuquerque, N. Mex.

Allotments have been made covering flood protection Northern Navajo and development water supply Zuni. Wire today whether or not work has started on either of these projects.

(Signed) C. J. Rhoads
RHOADS

F - O
S M D

3 trw 22

COPY

Fifth Irrigation District

Govt. Day Rate--Collect

ALBUQUERQUE N M
MARCH 22 1953

COMMISSIONER OF INDIAN AFFAIRS
WASHINGTON D C

RETEL TODAY ZUNI WATER SUPPLY NORTHERN NAVAJO FLOOD PROTECTION SURVEYS MADE MATERIALS ORDERED AND CONTRACT APPROVED FOR PILE DRIVING OUR DRAGLINE ON GROUND FOR BUILDING LEVEE NORTHERN NAVAJO FLOOD PROTECTION ACTIVE WORK TO START NEXT WEEK SURVEYS BEING MADE FOR ZUNI WATER SUPPLY ALSO MATERIALS ORDERED AND SURVEYS BEING MADE FOR LEUPP FLOOD PROTECTION

NEUFFER

2:20 p.m.

COPY

Irrigation
5445-33
C L S

District No. 5
Albuquerque, New Mexico

March 21, 1933

Commissioner of Indian Affairs,
Washington, D. C.

Dear Sir:

With reference to Office letter of February 15, 1933, Irrigation 5445-33, to Mr. George A. Trotter, Superintendent of the Zuni Agency, pertaining to funds for improving springs, drilling wells, and for increasing the grazing range on unallotted lands of the Pueblo Indians for the Zuni Agency, the writer has conferred with Superintendent Trotter regarding this matter.

It is noted in the Office letter that reference is made to the \$6,500 for water development by improving springs, drilling wells, etc. for the New Mexico Pueblos for the fiscal year 1934. This money has heretofore been used on all of the New Mexico Pueblos except Zuni and has been expended for operation and maintenance of existing domestic water supplies in the various pueblos, and occasionally a few additional developments for domestic water supply.

On account of the small appropriation it has not been possible to use this money in recent years for increasing the grazing range, except to make betterments on existing developments. The work done for increasing the grazing range during the past few years has been from funds belonging to the Indian pueblo or from Pueblo Lands Board awards and it is doubtful, unless the appropriation were much more than double, if any work could be done at Zuni. However, the grazing situation and water development at Zuni is a serious matter and it is believed that a special appropriation should be made for that purpose or the regular appropriation greatly increased. The writer feels that by increasing the water supply on the Zuni range the condition of much of the overgrazed land could be improved and thus, not only save the range but also decrease the quantity of silt which now enters the Zuni Reservoir and which would help to save the irrigation project.

COPY

A grazing report covering the grazing situation on the Zuni Pueblo and the additional water developments needed was submitted to the Office by Wm. H. Zeh, Forester, with his letter of December 23, 1930. In this report Mr. Zeh estimated that about thirty new water developments would be required to properly supply the range with water so that it could be managed in a satisfactory manner. He recommended that this development be done in accordance with the 3-year program whereby an appropriation of \$10,000 per year would be made. Mr. Zeh is now in the Washington Office and could, undoubtedly, give a very good explanation of the entire situation.

In conclusion, if the Office feels that anything could be done for the Zuni Reservation for stock water development, we will include this in our justification for the fiscal year 1935.

Respectfully submitted,

H. C. Neuffer
Supervising Engineer

HON/JL

cc Supt. Geo. A. Trotter
Zuni, N. M.

COPY

Polacca, Arizona

March 18, 1933

Mr Geo. Trotter
Supt. Zuni Agency
Zuni, Arizona.

Dear Mr Trotter:

This refers to the Domestic water development which will be started in the very near future.

I am anxious to know if you can make arrangements with your club manager to take care of our crew at the club during the duration of this work. I arrangements can be made whereby these men can obtain rates it will be appreciated. Please advise as soon as possible, so we may be governed accordingly.

Very truly yours

A. H. Womack

MAR 20 1933

COPY

District No. 5
Albuquerque, New Mexico

March 8, 1933

Commissioner of Indian Affairs,
Washington, D. C.

Dear Sir:

This is in reference to Office letter, F-0, of January 13, 1933 and my letter to the office of February 23, 1933, wherein it was requested that authorities and funds for the flood control work at Leupp and the water development work at Zuni be made immediately available. It is urgently requested that these funds be placed to the credit of Special Disbursing Agent, Ivan F. Albers, immediately so that we can go ahead with the necessary preliminary work in order to begin actual construction work by April 1st and complete it before July 1st, in the case of Zuni water development and the bridge construction at Leupp.

It is essential that this work be completed before July 1st in order to be safe from floods.

Very truly,

H. C. Neuffer
Supervising Engineer

HCH/JL

cc A. L. Wathen

COPY

Irrigation

5445-33

C L S

5

RECEIVED
FEB 15 1933

Mr. George A. Trotter,
Supt. Zuni Agency.

FEB 15 1933

Dear Mr. Trotter:

Receipt is acknowledged of your letter of February 2, 1933, regarding funds for improving springs, drilling wells, and for increasing the grazing range on unallotted lands of the Pueblo Indians of your agency.

It is planned that not over \$6,500.00 of the appropriation to which you refer will be used on the various New Mexico pueblos. The expenditure of this fund will be under the direction of Supervising Engineer H. C. Neuffer to whom a copy of this letter is being sent with the request that he discuss this matter with you on his next visit to your agency and report his recommendations to this Office immediately thereafter.

Sincerely yours,

C. J. RHOADS
Commissioner.

2 BLM 13

Copy to Denver Field Office

* * Supervising Engineer Neuffer.

COPY

REC-1 FEB 11 1933

Zuni Indian Agency
Zuni, New Mexico
February 2, 1933

Commissioner of Indian Affairs
Washington, D. C.

Dear Sir:

It is noted in the appropriation bill for \$87,300, available for improving springs, drilling wells, and otherwise developing and conserving water for Indian use, and for increasing the grazing range on unallotted lands on Indian reservations, that not only the Navajo and Hopi Indians in Arizona and New Mexico, and the Papago Indians in Arizona, were included, but the Pueblo Indians in New Mexico.

It would be appreciated if you would inform this office, and the Irrigation Department at Albuquerque, at once if Zuni is included among the Pueblos of New Mexico in order that a portion of this amount may be used at Zuni.

We are not asking for a large amount of this appropriation for Zuni but it is most necessary for better handling of the grazing lands to be started at once. If we had three or four thousand dollars for this work during the fiscal year 1934, with the free labor donated by the Indians, great good could be accomplished in the inexpensive development of water at different points on the reservation, and in this manner the relief of the over-grazed Zuni River valley could be effected. Our forest ranger, Mr. Holtz, who was sent here for range handling, is without funds for the work and can do nothing along this line the coming fiscal year unless he has some funds with which to work. It is hoped that a small portion of this fund may be set aside for water development here.

Very truly yours,

T:H

G. A. Trotter, Superintendent

cc Fifth Irrigation District, Albuquerque

COPY

JAN 22 1933

Zuni Agency
Zuni, New Mexico
January 20, 1933

Commissioner of Indian Affairs
Washington, D. C.

Dear Sir:

This is to inform you that together with the Forest Ranger, Mr. Holtz, I attended the meeting of Navajo superintendents with Mr. Monahan to discuss matters of interest to the Navajo Indians, with especial attention to the grazing situation upon the Navajo reservations. While not directed by your Office to attend this meeting, it was felt that because of the similarity of the Zuni problem to that of the Navajoes the discussion there would be of benefit to us.

As reports from this office show, our range is overstocked although the efforts made by our employees the past few years and the severe snows of last winter have caused the number of sheep upon the reservation to be reduced from approximately forty thousand head to twenty-six thousand the count shows at our summer dipping.

The horse situation is materially improved by the sale of a large number of the surplus animals to the rendering plant at Gallup a few years ago and the resultant loss from the heavy snows of last year.

However, we have a situation upon the Zuni reservation which grows more critical each year because of the need of water development on the mesas and the lands lying at a distance from the valley of the Zuni River as the valleys can be used only during the dry portions of the year and at lambing time, and one dry year such as occurred seven years ago would mean not only a severe loss in stock to the Zunis but would entirely destroy the valley range.

Attention is called to the report of May 30, 1931, Forestry, 67153-30, made by Wm. H. Zeh, Forester, with reference to the needs in the way of funds for the development of water upon the Zuni reservation. Shortly after this report was made a

COPY

C. I. A., No. 2

Forest Ranger was sent here and we were most hopeful that the recommendation made by Mr. Zeh would be carried out, not only for the development of water but for rodent control upon the reservation. For the 1933 appropriation for Forestry work but \$100.00 was given from Forestry funds, which was not sufficient to provide for the travel expense, gasoline, and upkeep of the car run by Mr. Holtz--our Forest Ranger.

Instructions were given by your Office when the matter was taken up there for Mr. Holtz to be placed upon road work as there were not funds for allowing him to proceed with handling the grazing problem upon the Zuni reservation. He has been working in connection with road construction since that time but we are most anxious to proceed with the plan outlined by Mr. Zeh to divide the reservation into winter and summer range to conserve the valley land and allow the grazing there to get a needed start, and to divide the flocks in such a manner as to get the greatest good from our range with the least damage to the valleys.

We have a situation at Zuni which we are attempting to remedy and are having a meeting of the stock owners for the purpose of arranging some manner for paying the outside leases held by the Zunis without working a hardship upon the ones who hold these leases. For a number of years individual Zunis have leased railroad lands outside the reservation, thus relieving the grazing situation upon the reservation, and these more enterprising Zunis have paid for the leases while the ones who graze upon the reservation are benefited by their use of this outside land but make no sacrifice, nor assist in any manner, in making these lease payments. We are asking the stockmen to allow a fee of five cents per head for all sheep upon the reservation to be paid in lambs, wool, or labor whichever would suit the individual case, and while there is a certain amount of objection to this upon the part of some of the older Indians, it is believed that in this manner we shall be able not only to care for these lease payments and their dipping fees, but shall have a small amount remaining for water development.

While there are but few cattle upon the reservation, the assessment will be at the same rate as is charged the excess upon the Navajo reservation--or twenty cents for each cow.

While this will allow a small working capital after our lease and dipping fees are paid, we are most hopeful that we may secure a small amount for allowing grazing and rodent control work to be done upon the reservation the next fiscal year.

COPY

C. I. A., No. 3

It is known that the situation with reference to the Navajoes is more critical than that of the Zunis but it is believed that were it understood that the best part of the Zuni reservation, which is the valley through which the Zuni River flows, will be destroyed for all time for grazing unless some action is taken in the near future that a small appropriation could be secured even at this time of general depression for starting the work upon the Zuni reservation.

Very truly yours,

T:H

G. A. Trotter, Superintendent

cc Wm H. Zeh, Forester

H. C. Neuffer, Supervising Engineer, Fifth Irrigation Dist.

COPY

STANDARD FORM NO. 14A
APPROVED BY THE PRESIDENT
MARCH 10, 1926

TELEGRAM

OFFICIAL BUSINESS—GOVERNMENT RATES

GOVERNMENT PRINTING OFFICE 6-7134

FROM INTERIOR DEPARTMENT

BUREAU Fifth Irrigation District

CHG. APPROPRIATION _____

Govt. Day Rate Pd.

A. N. Thompson, Asst. Engr.,
U. S. Indian Irrigation Service
Taos, N. M.

Albuquerque, N.M.
Sept. 27, 1932

TROTTER HAS COMPRESSOR UNTIL END OF WEEK BURNS WILL SEND WITH HIRED
TRUCK WHEN FINISHED

3:00 p. m.


Rupley

COPY

F-0
31102-32
EJA

*Zuni Domestic
Water Supply*

JUL 11 1932

Mr. George A. Trotter,
Supt., Zuni Agency.

JUL -8 1932

Dear Mr. Trotter:

Answering your letter of June 14, with reference to the need of money to develop an adequate water supply for the agency and the sanitorium, we regret very much to have to say that there is scant possibility of any money being available during the present fiscal year to cover this project. The building appropriation, to which a considerable portion of the costs of the water development would necessarily be charged, has been very seriously cut; in fact many of the jurisdictions will find that their 1933 budget authorities contain smaller amounts than usual for ordinary repair and up-keep purposes.

The need of a better water supply for your jurisdiction will be kept in mind for consideration in connection with the expenditure of such applications for moneys as may become available in the future. Incidentally, no definite assurance was given Mr. Neuffer that funds would be provided for this purpose during 1933 although he was assured that all possible consideration would be given the matter.

Sincerely yours,

(SIGNED) B.S. GARBER
Acting Commissioner.

7-HCC-7

Copy to Supervising Engineer Neuffer

COPY

F - C
58567-3
E J A

APR 25 1932

Zuni Agency
Zuni, New Mexico

April 28, 1932

Commissioner of Indian Affairs
Washington, D. C.

Dear Sir:

Attention is called to Office letter of October 29, 1931, reference above, with regard to an estimate made by Mr. Womack for the development of an adequate water supply for the Zuni Agency and Sanatorium.

While no copy of Mr. Womack's report was received by this office, it is supposed that he explained conditions here--that the canyon in which the spring is located has washed to such an extent as to endanger our water supply and unless something is done to protect this spring the Agency and Sanatorium will be without water.

It is hoped that this matter will be given consideration by your Office in the preparation of next year's budget as we have no funds available for this purpose.

Very truly yours,

T:H

G. A. Trotter, Supt.

cc H. C. Neuffer

COPY

NOV 18 1931

5-1142

UNITED STATES
DEPARTMENT OF THE INTERIOR
INDIAN FIELD SERVICE

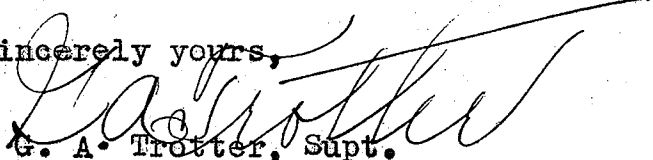
Zuni Indian Agency,
Zuni, New Mexico,
November 17, 1931.

Mr. C. A. Burns,
Engineer in Charge,
Albuquerque, N. M.

Dear Mr. Burns:

The letter written the Washington Office may not be just what was wanted but thought it best not to give amounts or go further into the engineering end of things as your office can furnish this.

I talked with your chief clerk about the pile driver hammer and leads. If you cannot locate the hammer, if we could secure the leads we could tie up the broken hammer we have here with baling wire and twine binder string and use it for our work. Could you have these sent us from Laguna? Send bill for any expense incurred in loading and ship on Gov't B/L charging the freight to "Roads, Indian Reservations, 1931-32." If the hammer is there and could be sent with the leads this would be more better as the Zunis express it.

Sincerely yours,

G. A. Trotter, Supt.

COPY

F - 0
58567-31

UNITED STATES
DEPARTMENT OF THE INTERIOR
OFFICE OF INDIAN AFFAIRS
WASHINGTON

1831 2-474

Mr. H. C. Neuffer,
Supervising Engineer,
Albuquerque, New Mexico.

OCT 29 1931

My dear Mr. Neuffer:

We have received Mr. Burns' letter of October 13, forwarding a report dated October 7 by Mr. Womack, estimating that \$8800 will be required for the development of an adequate water supply for the Zuni Agency and Sanatorium.

The assistance of the Irrigation people in investigating conditions at Zuni is appreciated, but we regret to say that there is no possibility of any money being available during the current fiscal year to improve the conditions complained of.

Sincerely yours,

C. J. Rhoads
Commissioner.

COPY

Fifth Irrigation District
Albuquerque, New Mexico

October 13, 1931

Assistant Director,
U. S. Indian Irrigation Service,
Los Angeles, California.

Dear Mr. Clotts:

Some weeks ago a request came through the Office of the Commissioner of Indian Affairs that a report be made on the further development of the domestic water supply for the Blackrock Agency and Sanitarium. We are unable to make reference to this letter due to the fact that it has been mislaid.

Supervising Engineer Neuffer directed Mr. A. H. Womack to make a report on this project. The writer has gone over the ground with Mr. Womack and fully concurs in the report which is enclosed.

Very truly yours,

C. A. Burns
Engineer in charge

CAB/JL

COPY

Fort Defiance, Arizona,
October 7, 1951.

Mr. H. C. Neuffer, Supervising Engineer,
Fifth Irrigation District,
Albuquerque, New Mexico.

Dear Mr. Neuffer:

Herewith is submitted a report for the development of additional domestic water supply for the Blackrock Agency and Sanatorium.

The water supply for this institution was developed in the canyon about one mile north of the Blackrock Agency. There was considerable underground water flow in this canyon at the time the water was developed, but during the past several years the canyon floor has been eroded by flood waters to a point where the water supply has been lost to the present infiltration system. In order to recover the water it will be necessary to sink a caisson in the stream bed, and protect the stream bed from further erosion by the construction of a concrete weir which will be placed on the sandstone outcropping at a point below the location of the caisson. In addition to this it will be necessary to rip-rap the south bank to prevent erosion by flood waters.

The present needs of water for the school is in the amount of about 50,000 gallons per day, based on a population of 200 people. The water supply at this date is entirely inadequate for the needs of the institution, and subjects it to a fire hazard which might result in its complete loss. The pipe line and pumping equipment is in first-class condition and can be used in its present location in the proposed development scheme.

The following is an estimated cost for the development of an adequate water supply:

Concrete weir, - - - - -	\$ 2,400.00
Riprap, - - - - -	1,000.00
Filing, - - - - -	300.00
Caisson, - - - - -	2,500.00
Shoring, wet excavation, etc., - - - - -	500.00
Connecting to present pumping plant, including pipe fittings, - - - - -	500.00
Engineering, - - - - -	500.00
Administration, - - - - -	700.00
Total	\$ 8,500.00

Very truly yours,

H. C. Neuffer
COPY

JAN 10 1930

5-1142

UNITED STATES
DEPARTMENT OF THE INTERIOR
INDIAN FIELD SERVICE

Zuni Indian Agency,
Zuni, New Mexico,
January 3, 1929.

Mr A.H.Womack,
Polacca, Arizona.

Dear Mr Womack:

I would certainly appreciate it if you could send me four copies of the Generalized log of the formations to be encountered in the Zuni Village Well. They are needed to be attached to the copies of the contract.

Yours truly,

G. Trotter
Superintendent.

jwj

Mr. H. F. Robinson.

Supervising Engineer

Albuquerque, N.M.

Dear Sir, ; The above is self eplanatory
I have attached the extra cobby, but do not have
the amount required,

A.H. Womack

*I think he is anxious
to have logs so he can make
first payment on well etc*

A.H.W.

COPY

January 10, 1930

Mr. Geo. A. Trotter, Supt.,
Zuni, N. M.

Dear Mr. Trotter:

I am advised by Assistant Engineer C. A. Burns that you are arranging for a meeting with the Indians on Saturday, January 18th, to talk over the question of the Indians giving some labor on the proposed Zuni Dam, and asked me to arrange to be present at that time.

I will do so and will reach Zuni either the night of the 17th or the morning of the 18th.

Mr. Womack writes by even mail that you desired some of the prints of the log he has prepared for the Zuni region. I am having the prints made and will forward you one-half dozen as soon as they are completed.

Yours very truly,

HFR/JL

H. F. Robinson
Supervising Engineer

COPY

January 10, 1930

Mr. C. A. Burns,
Shiprock, N. M.

Dear Mr. Burns:

I have your letter of the 8th from Gallup regarding a meeting at Zuni on the 18th.

I will be there and will see what it is possible to do with the Indians at that time.

I am writing Mr. Trotter this same mail.

Yours very truly,

HFR/JL

H. F. Robinson
Supervising Engineer

COPY

November 9, 1929

Mr. Geo. A. Trotter, Supt.,
Zuni, N. M.

Dear Mr. Trotter:

I have your letter of November 6th regarding the pile driver and its further use at Laguna.

I am quite confident that we will need it for this Laguna work but this work will not be done until we can get a further appropriation from Congress and a request has gone in for this to be done through the first general deficiency bill that will come up after they meet in December.

Therefore, I think it will be all right to use the pile driver with Mr. Fenton until we are sure about its further use.

Yours very truly,

H. F. Robinson
Supervising Engineer

HFR/JL

COPY

NOV -9 1929

5-1142

UNITED STATES
DEPARTMENT OF THE INTERIOR
INDIAN FIELD SERVICE
Zuni Agency
Zuni, New Mexico

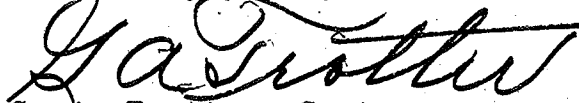
November 6, 1929

H. F. Robinson, Supervising Engr.
Fifth Irrigation District
Albuquerque, New Mexico

Dear Mr. Robinson:

While you were here a few days ago you stated that you would like to have the pile driver outfit in use at Zuni for work at Laguna. We have completed the pile driving at the Zuni bridge and the pile driver can be taken at any time. Kindly advise upon receipt of this letter if you wish to use it as it will be necessary to move the outfit with the irrigation supplies to Mr. Fenton's, as I suppose that is where you wish it placed. If you desire us to do it we can return the parts to Shiprock which we borrowed from that place.

Very truly yours,


G. A. Trotter, Supt.

T:H

COPY

CLASS OF SER

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(27)

WESTERN UNION

NEWCOMB CARLTON, PRESIDENT

J. C. WILLEVER, FIRST VICE-PRESIDENT

SIGNS

- DL = Day Letter
- NM = Night Message
- NL = Night Letter
- LCO = Deferred Cable
- CLT = Cable Letter
- WLT = Week-End Letter

The filing time as shown in the date line on full-rate telegrams and day letters, and the time of receipt at destination as shown on all messages, is STANDARD TIME.

Received at 205 West Central Ave., Albuquerque, New Mexico Always Open 1929 OCT 9 AM 7 26

Q1 15 4 EXTRA=B1==GALLUP NMEX 9 720A

H F ROBINSON=

KIMO BLDG ALBUQUERQUE NMEX=

LEAVING GALLUP TO ZUNI RETURN TO GALLUP TONIGHT IS CAR READY

A H WOMACK FOREMAN US IMIGRATION SERVICE.

THE QUICKEST, SUREST AND SAFEST WAY TO SEND MONEY IS BY TELEGRAPH OR CABLE

CLASS OF SER

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable sign above or preceding the address.

(42)

WESTERN UNION

NEWCOMB CARLTON, PRESIDENT

J. C. WILLEVER, FIRST VICE-PRESIDENT

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Received at 205 West Central Ave., Albuquerque, New Mexico Always Open 1929 SEP 13 AM 11 44

Q48 14 GOVT=USZ1=ZUNI NMEX 13 1137A

ROBINSON=

SUPERVISOR ENGINEER ALBUQUERQUE NMEX=

BURNS REPORTED PILE DRIVER YOUR DEPARTMENT SHIPROCK COULD

WE GET LEADS AND HAMMER WIRE=

TROTTER.

COPY

TO OFFICER SENDING TELEGRAM.

MEMORANDUM COPY OF OFFICIAL TELEGRAM.

- 1. Keep copy on this form for your files.
- 2. Mail confirmation to addressee indicating that purpose by check mark in this circle

Will NOT be accepted if presented by Telegraph Company attached to bill for tolls, in lieu of original message.

Receiver's No.—	Time Filed—	Paid	Word <i>Day</i> (Day or night.)	Government rate—Toll, \$
Sent by—				
Western Union (Name of company.)		Telegraph Co.	Albuquerque N. M.	Sept 13 1929 (Date.)
To Trotter, Superintendent		From H. F. Robinson (Print or typewrite name of sender.)		
Blackrock N. M. (Gallup, thence Govt telephone)		Supervising Engr (Title of sender.)		

YOU MAY GET PILEDRIVER SHIPROCK ALSO MAY USE STEAM HOIST BLACKROCK IF DESIRED.

H. F. Robinson
ROBINSON.

Government Official business

Day. Collect.

COPY

CLASS OF SERVICE

This is a full-rate Telegram or Cablegram unless its deferred character is indicated by a suitable sign above or preceding the address.

(29)

WESTERN UNION

NEWCOMB CARLTON, PRESIDENT

J. C. WILLEVER, FIRST VICE-PRESIDENT

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Received at 205 West Central Ave., Albuquerque, New Mexico ^{Always} _{Open}

Q33 20 1 EXTRA GOVT NL=ZUNI AGENCY=ZUNI NMEX 8

ROBINSON, SUPERVISING ENGINEER=

1929 SEP 8 PM 6 32

ALBUQUERQUE NMEX=

COULD STOVER BE PLACED IN CHARGE BUILDING ZUNI BRIDGE STOP

IS HERE AND WILLING TO DO THIS STOP WIRE=

TROTTER SUPERINTENDENT.

COPY

Phoned Stover. No. he was needed elsewhere

AUG 19 1929

5-1142

UNITED STATES
DEPARTMENT OF THE INTERIOR

INDIAN FIELD SERVICE

Zuni Agency
Zuni, New Mexico

August 16, 1929

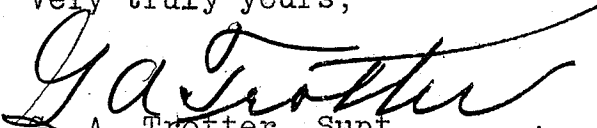
H. F. Robinson, Sup. Engineer
U. S. Irrigation Dept.
Albuquerque, New Mexico

Dear Mr. Robinson:

In reply to your request for information with reference to the well driller at Zuni, you are advised that there has been some delay in securing the necessary papers properly signed for forwarding to the Washington Office but as but one bid was received on our request, and Mr. Fred H. Bentley of Holbrook, Arizona, was the bidder, and Mr. Womack has recommended that his bid be accepted, it is thought he will be given the contract.

I am quite sure that Mr. Bentley would be very willing to put down your test well and this could be done before he starts on the other work. As soon as the Office approves this bid you will be advised so that you can make the necessary arrangements for the drilling of the well on the Nutria.

Very truly yours,


G. A. Trotter, Supt.

T:H

COPY

WESTERN UNION

Albuquerque New Mexico August 12 1929.

Indian Office

Washington D. C.

ESTIMATED TO REPLACE ZUNI BRIDGE THIRTY SIX HUNDRED TWENTY ONE DOLLARS

REPORT AND PLANS MAILED.

Thompson
ROBINSON

GOVERNMENT
OFFICIAL BUSINESS
DAY
COLLECT

Albuquerque New Mexico August 12 1929.

Indian Office

Washington D. C.

ESTIMATED TO REPLACE ZUNI BRIDGE THIRTY SIX HUNDRED TWENTY ONE DOLLARS

REPORT AND PLANS MAILED.

ROBINSON

GOVERNMENT
OFFICIAL BUSINESS
DAY
COLLECT

COPY

Letter of transmittal
to include offer
by Mr. Robinson
copy to Dept Proctor
June

COPY

August 10, 1929

Mr. H. F. Robinson,
Supervising Engineer,
Albuquerque, N.M.

Dear Mr. Robinson:

Herewith is submitted a report for the reconstruction of that part of the Zuni bridge which was recently destroyed by flood waters.

The Zuni bridge as constructed consisted of six 25 foot truss spans. Of the six spans, two at the north end remained intact. Investigation of the conditions tend to prove that the present part of the structure is on a sufficient foundation. From the information gathered it seems that the concrete piers are set on cedar piling. The exact length of the piling is not known. However, since this part is intact and in first-class condition, there seems to be no justification for its removal.

The footing under that portion of the structure that was washed out apparently was not set on piling and during the flood stages of the river the piers naturally settled, weakening the entire structure.

In regard to the plans for the new structure. I conferred with Supt. Trotter who accompanied me to the bridge site and it was our opinion that that portion of the structure washed out should be replaced setting the superstructure on piling. The plans as drawn call for five 20 foot spans to be set on pile bents; total length of pile to be not less than 40 feet. All piling should be not less than 16 ^{inches} at the butt and 12 ^{inches} at the top. The wing walls at the south end of the pier, while intact, appear to be in very poor condition and we have provided that piling should be driven and sufficiently legged to hold the earth fill in place.

The bridge as designed will be considerably stronger and more stable than the present structure. The capacity of the replacement part of the bridge will be 12 tons while that of the old portion of the bridge will be somewhat less. However, should it be desirable to carry a heavier load over the old portion of

COPY

the bridge, temporary superstructures could be placed under it. Under ordinary conditions a maximum of five tons will be perhaps all that the bridge will be called upon to stand.

In the replacement of that portion of the bridge taken out by flood waters, the carrying capacity of the bridge alone has not been considered as vital but rather a structure sufficiently strong to withstand the rush of flood waters of the Zuni River.

At the time the present structure was carried out by flood waters there was no water flowing over the spillway of the dam. A cloudburst occurred between Blackrock dam and Zuni village covering a distance of four miles. This will give you some idea as to the volume of water entering the Zuni River over a short distance. This statement is made as a justification for the construction of the bridge as designed.

The following is an estimate and bill of material for the replacement of the bridge:

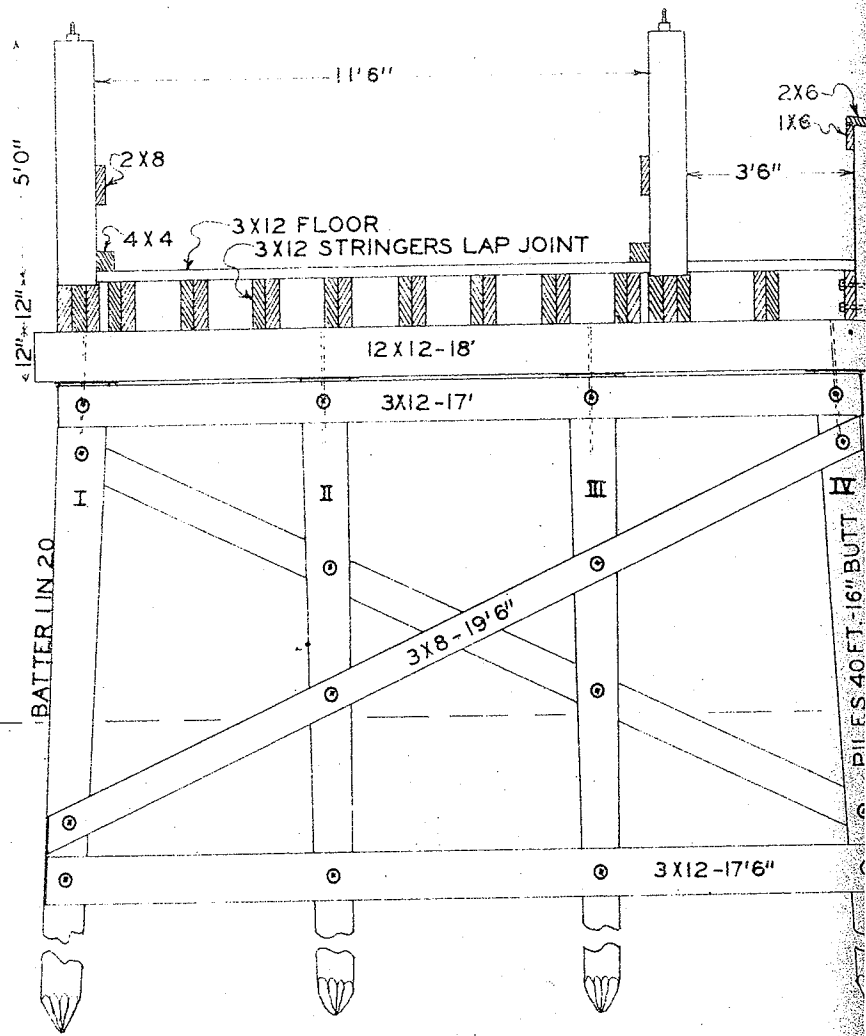
Piling, 20 - 40' long @ \$40.00 in place	\$800.00
Piling, wing, 8 - 30' long @ 30.00 "	240.00
Caps, 5 - 12"x12' - 18,	1080 B.H.
Carrier beams, 10 - 10x10-18	1500 "
Truss timbers, 10 - 10x10-18	1500 "
" " 5 - 10x10-12	500 "
Guard rail 14 - 4x4-16	298 "
Sway braces 10 - 3x8-20	400 "
Tie " 15 - 3x12-18	810 "
Stringers 75 - 3x12-20	4500 "
Flooring 110 - 3x12-18	5940 "
Guard fence 15 - 2x6-20	300 "
" " 8 - 2x6-18	144 "
" " 14 - 4x4-5	93 "
	<u>17,055 @ \$100.00 1705.50</u>
Queen rods 20 - 7/8"x6"-10"	
Tie bolts with plate,	
plate 1/2" 10 - 5/8" x 4"	
Eye bolts 10 - 5/8" x 7"	
Bolts, tie and sway	
top & upper middle	
40 - 5/8" x 24	
Bolts, sway bottom	
30 - 5/8" x 18"	
Bolts, truss 20 - 5/8" x 15"	
Dowell pins 24 - 5/8" x 24	
Lag screws 50 - 1/4" x 4"	
Plates 20 - 10"x10"-5/8	
Plates, benton, 40 - 10x20-5/8	
Hardware	250.00
Labor, framing and placing	625.00
	<u>23621.50</u>
	TOTAL

Yours very truly,

C.A. Burns
C.A. Burns, Assistant Engineer

CAB/JL

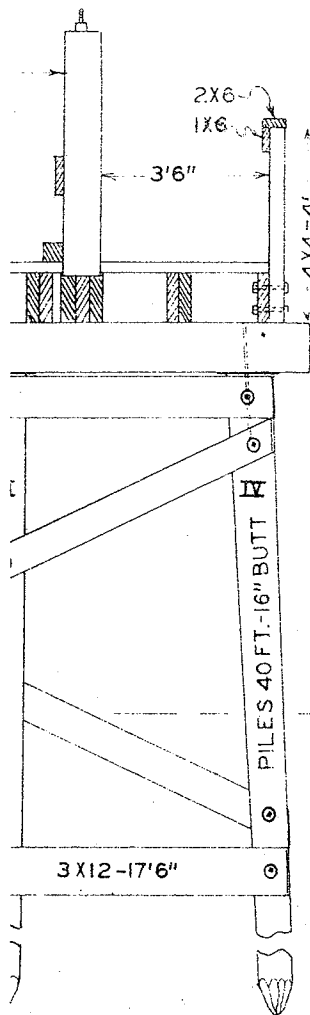
COPY



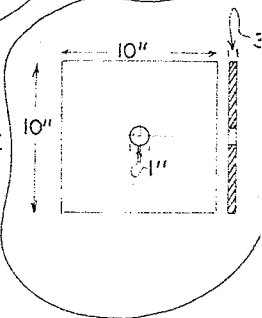
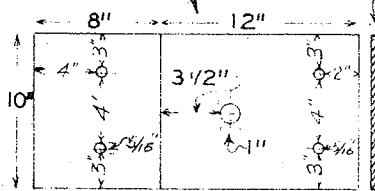
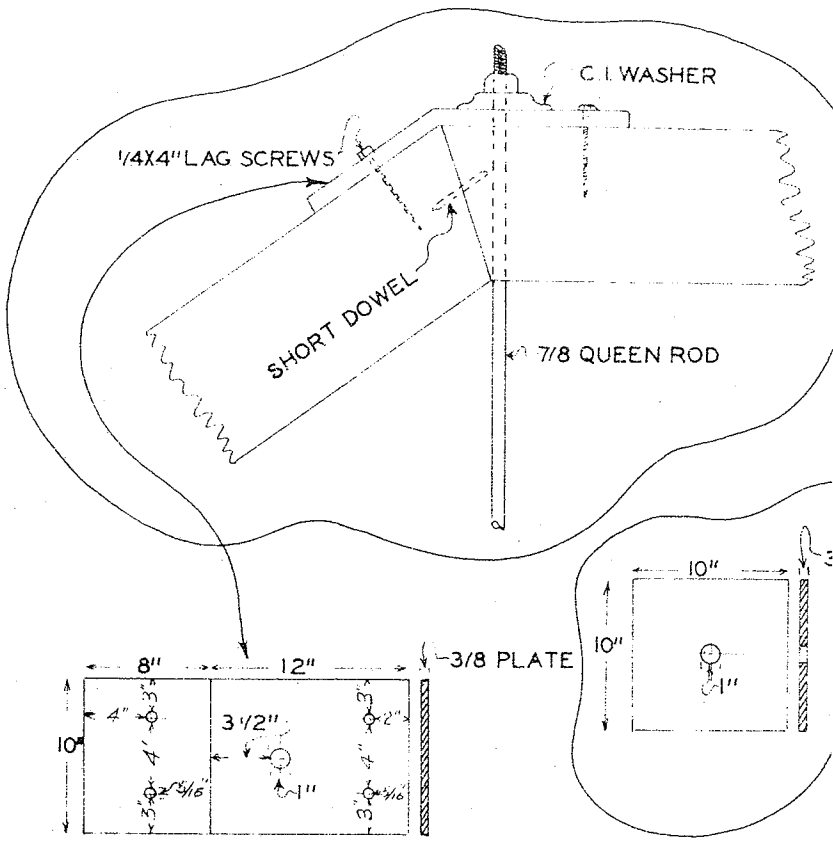
SECTION THRU BRIDGE
1 INCH = 4 FEET



COPY

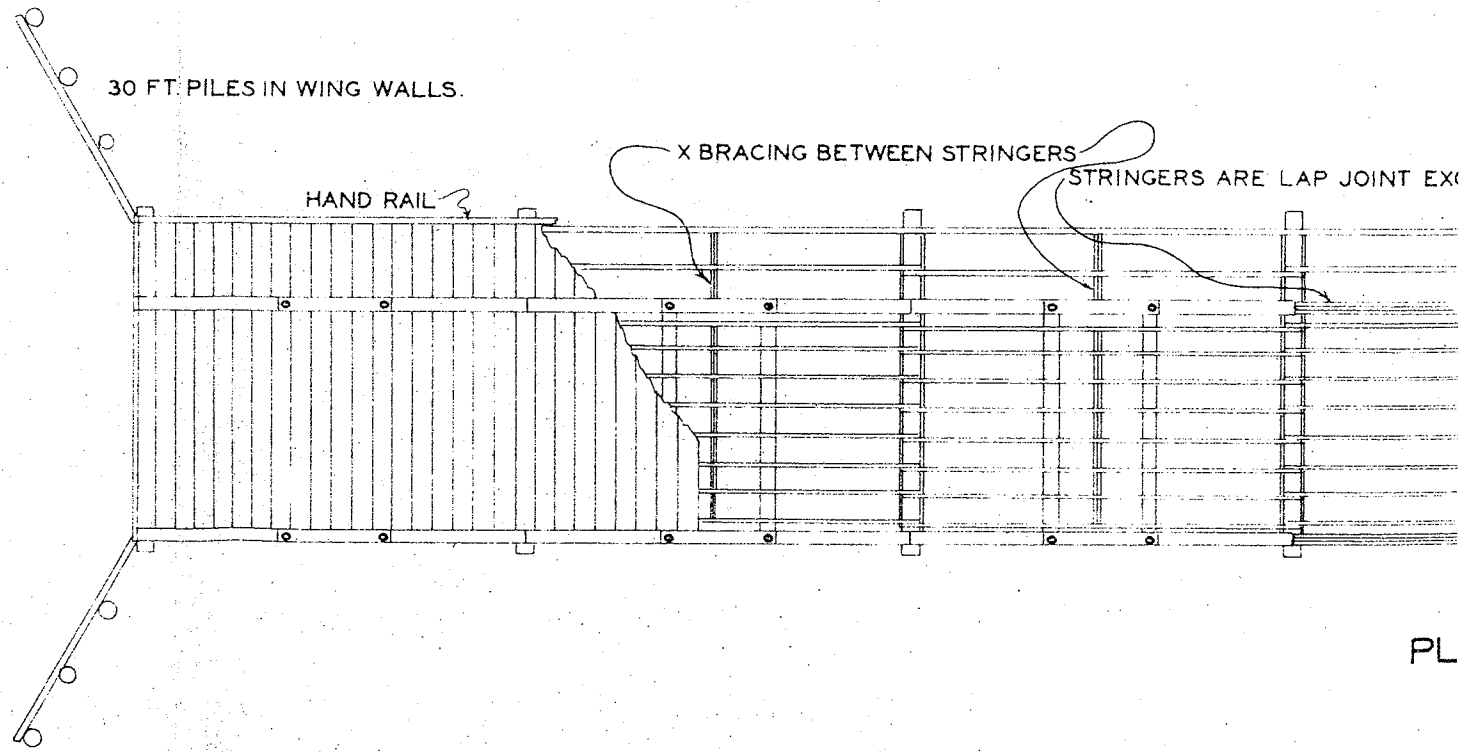


8'0"



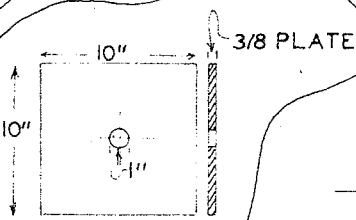
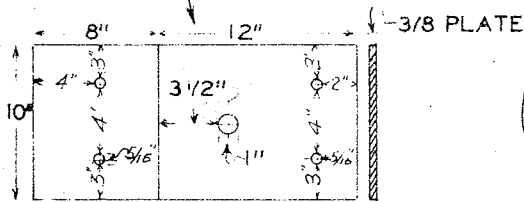
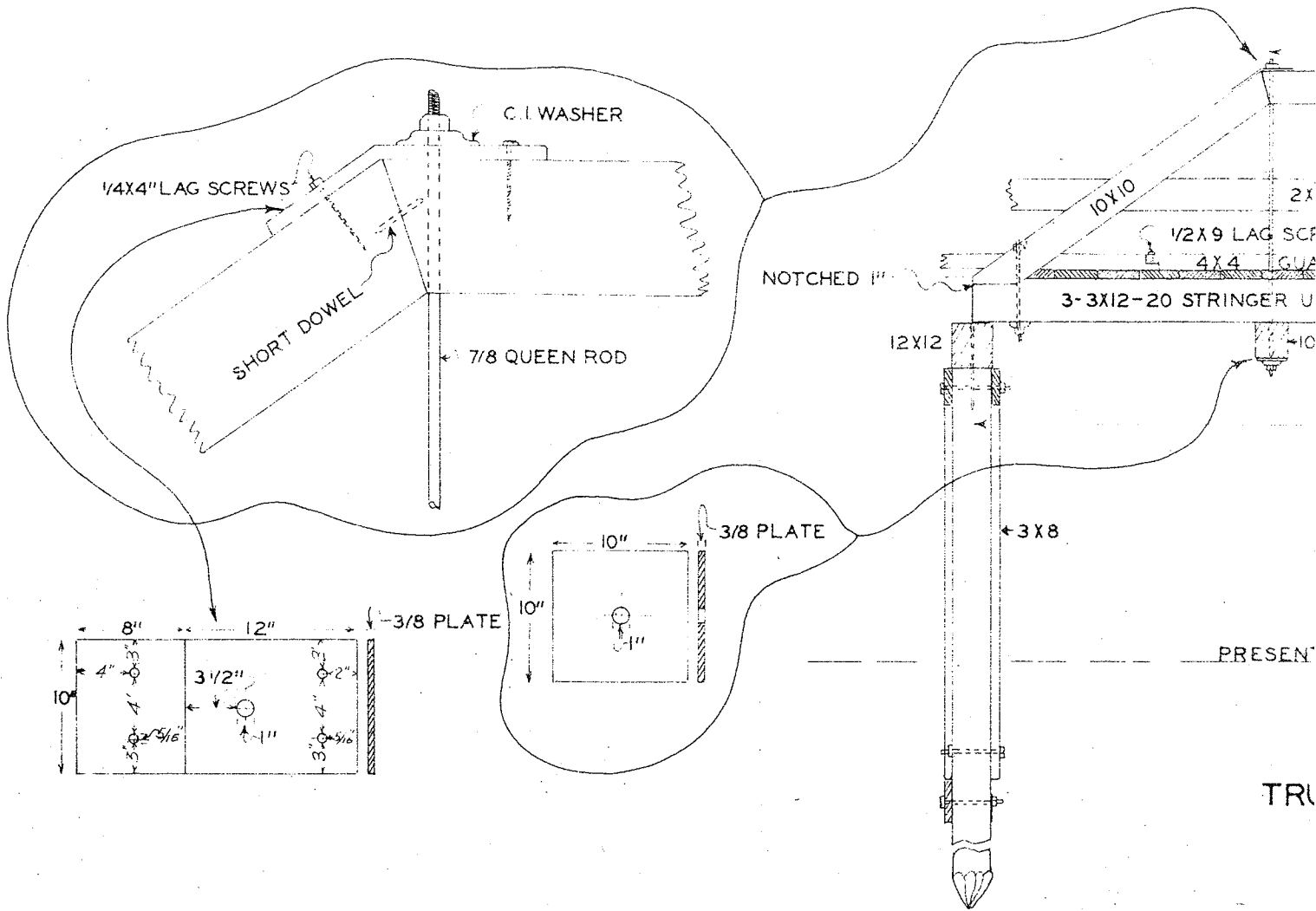
DGE

30 FT. PILES IN WING WALLS.



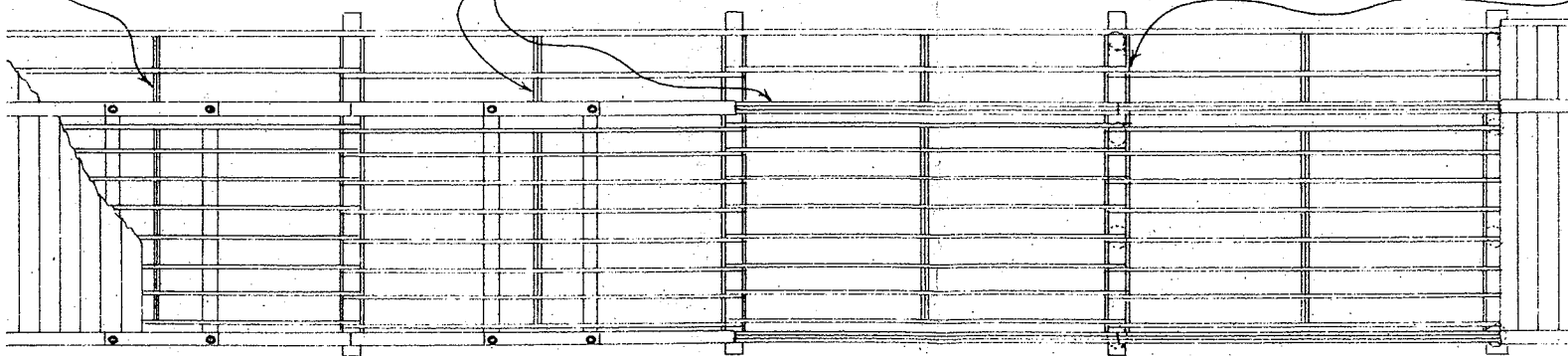
PL

COPY



X BRACING BETWEEN STRINGERS

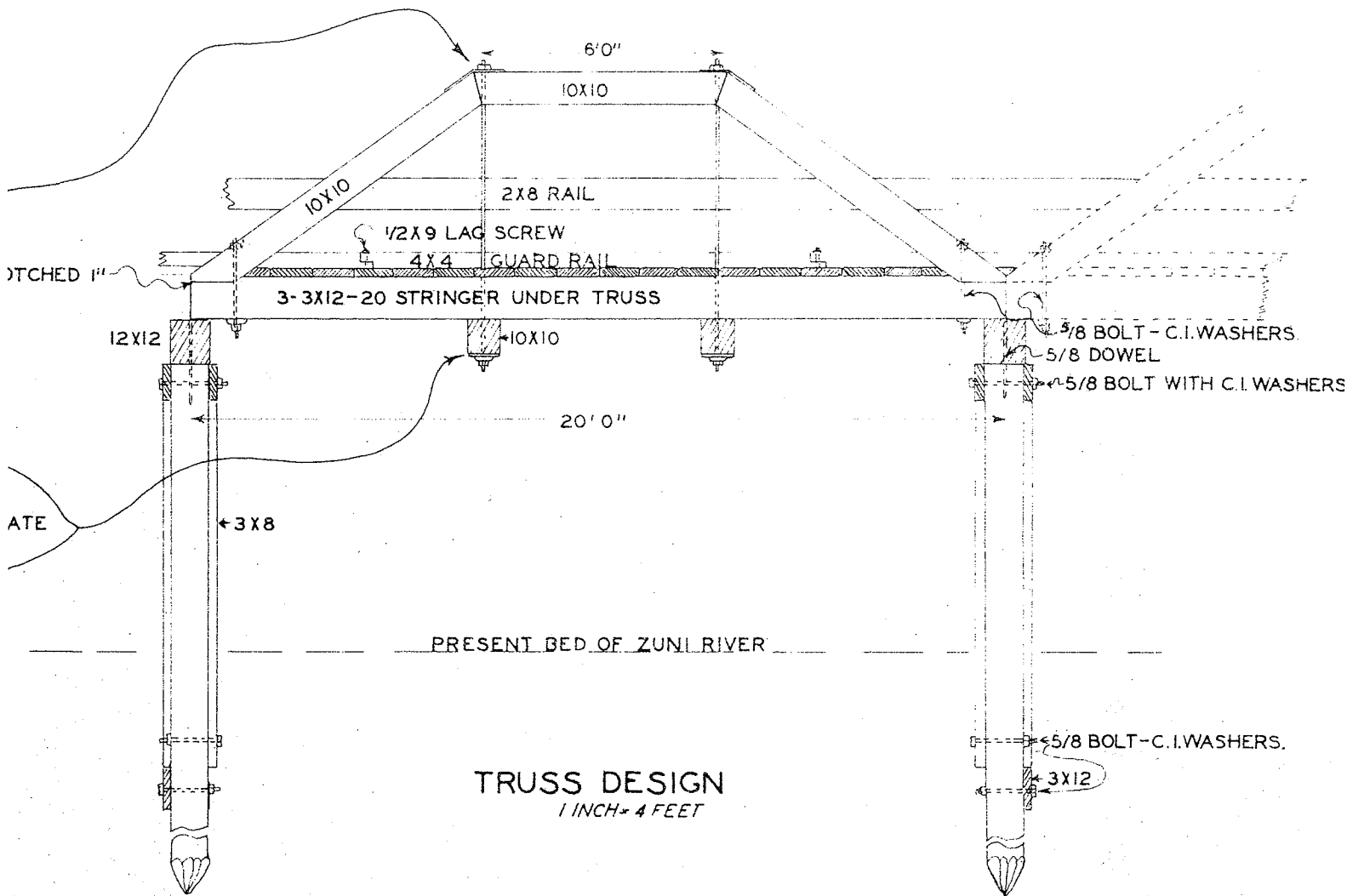
STRINGERS ARE LAP JOINT EXCEPT THREE UNDER TRUSS WHICH ARE END TO END.



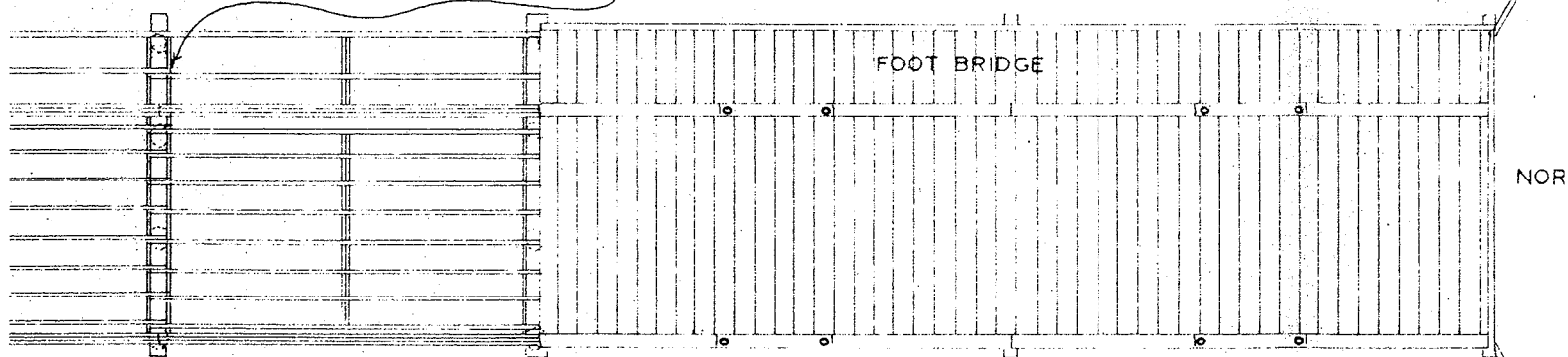
PLAN OF BRIDGE
1 INCH = 10 FEET.

BUILD

COPY



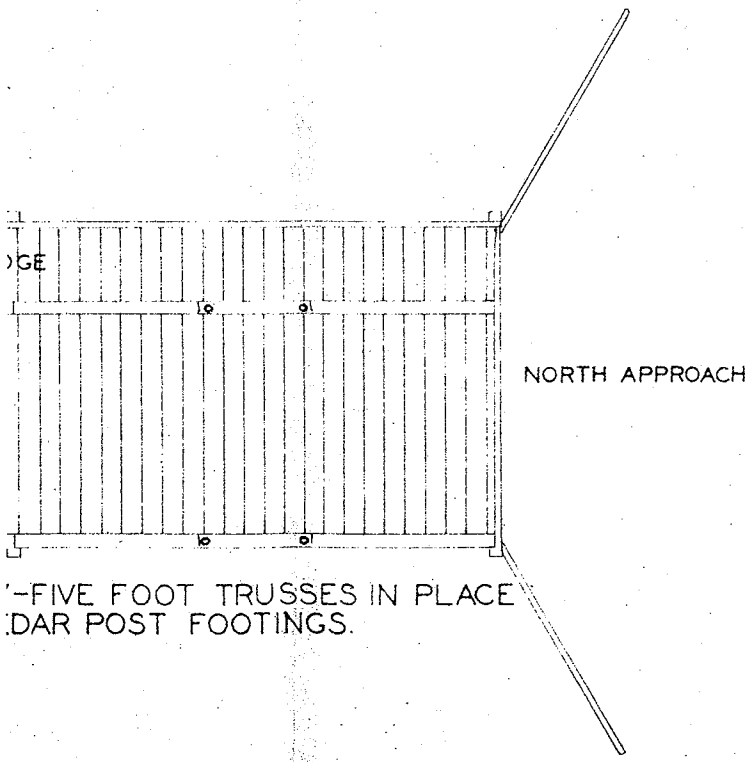
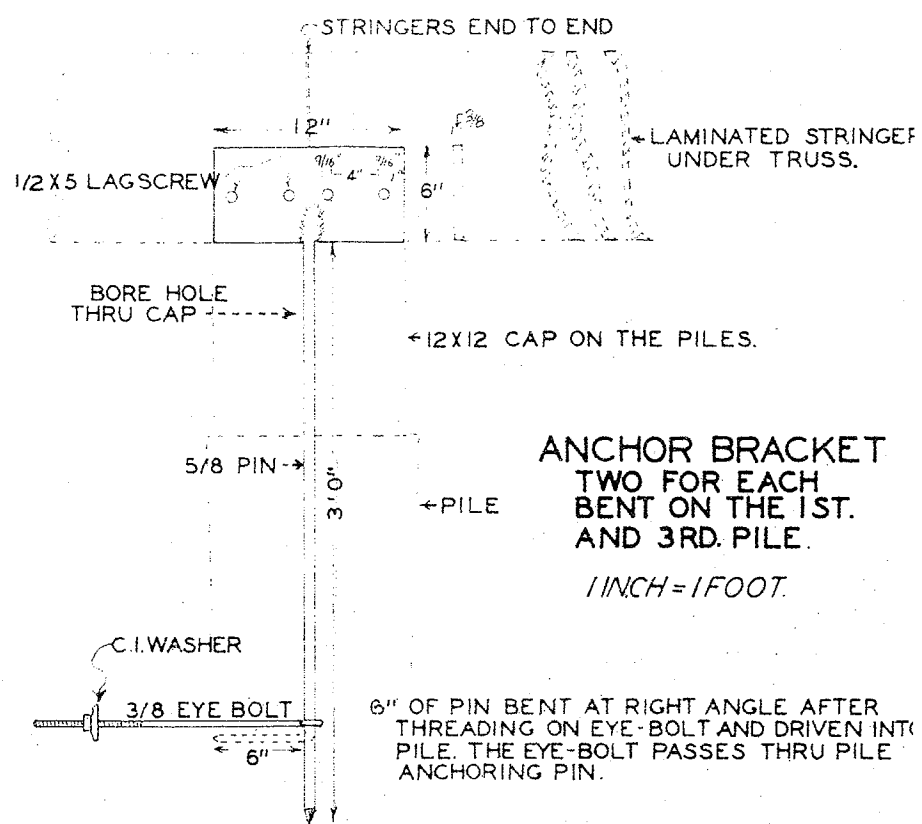
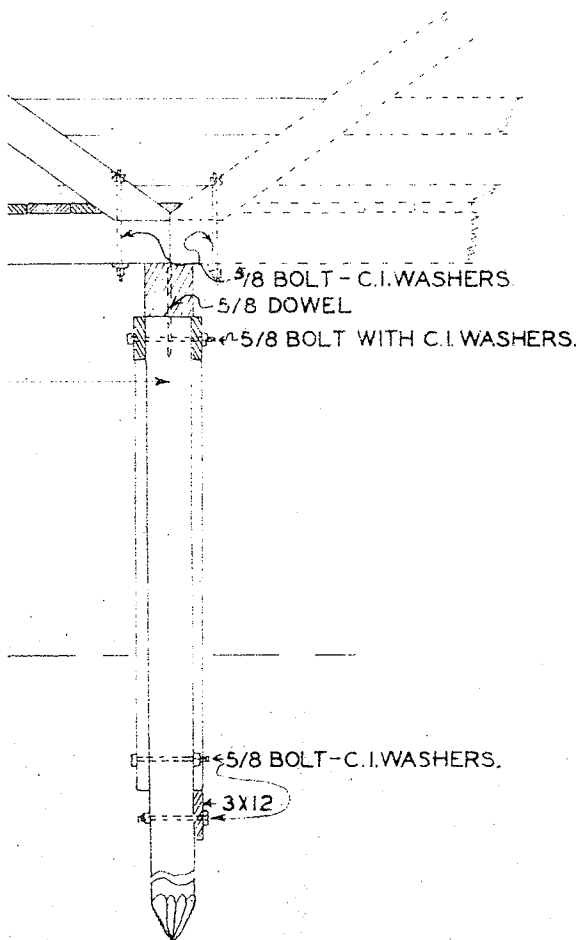
THREE UNDER TRUSS WHICH ARE END TO END.



THERE ARE TWO TWENTY-FIVE FOOT TRUSSES IN PLACE BUILT ON CONCRETE AND CEDAR POST FOOTINGS.

OF BRIDGE
CH=10 FEET.

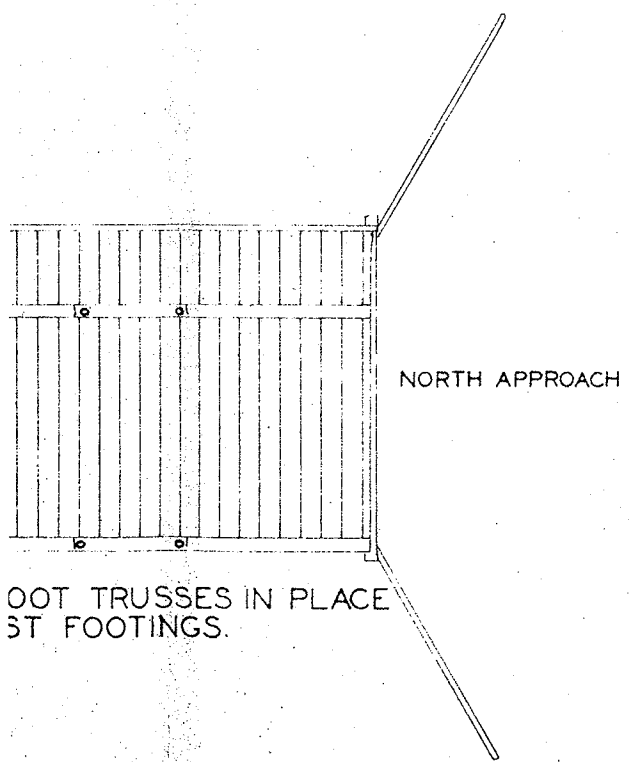
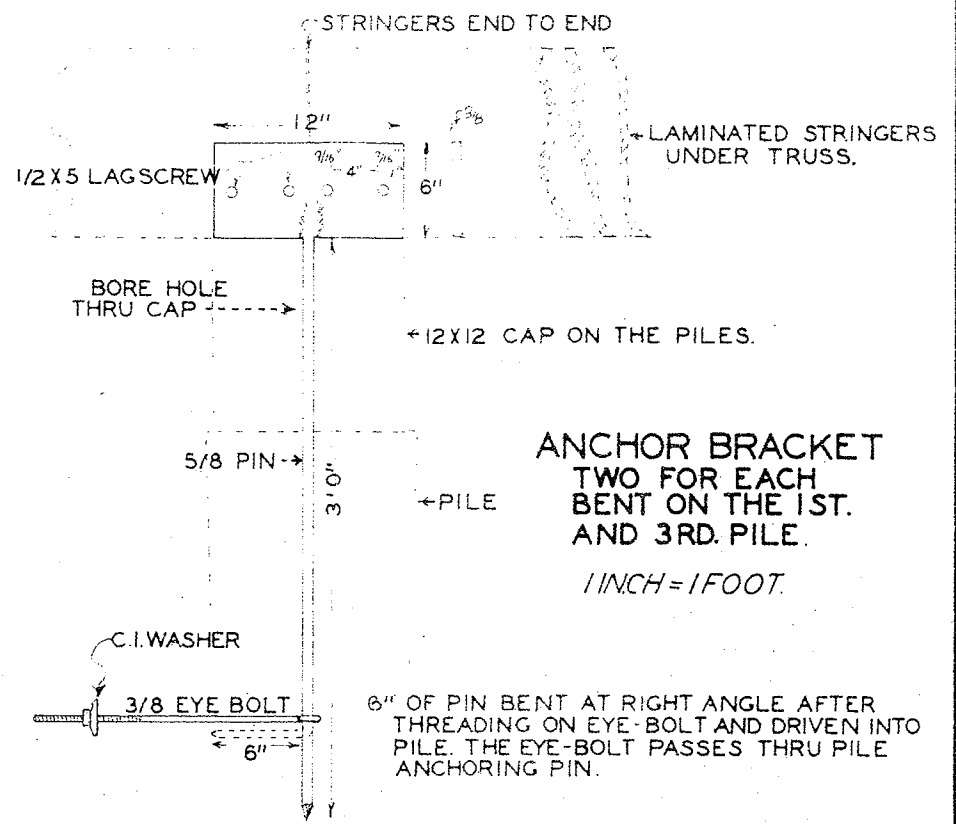
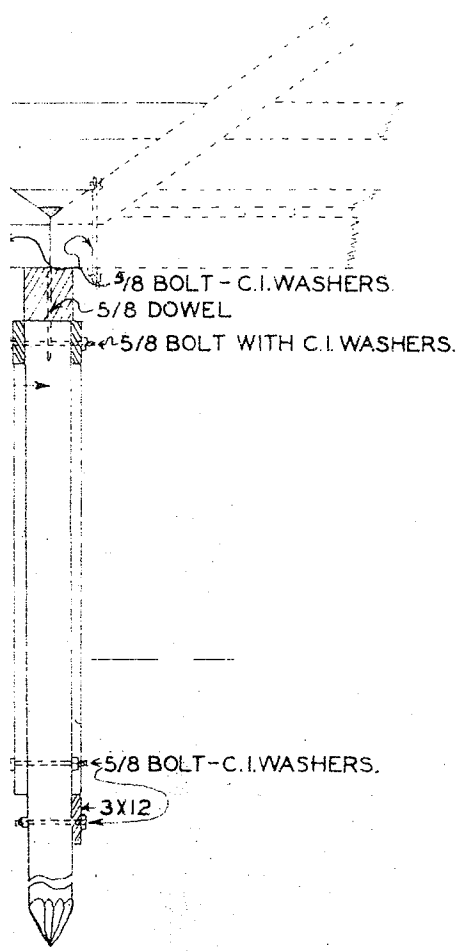
COPY



U. S.
 DEPARTMENT OF THE INTERIOR
 INDIAN IRRIGATION SERVICE
 DESIGN
 of
 Timber Bridge
 Truss Bents on Piles
 ACROSS ZUNI RIVER
 ZUNI, NEW MEXICO
 1929

DESIGNED BY . . . C. A. B. . . . RECOMMENDED . . .
 DRAWN BY . . . L. G. B. . . . APPROVED . . .

COPY



U. S.
DEPARTMENT OF THE INTERIOR
INDIAN IRRIGATION SERVICE
DESIGN
of
Timber Bridge
Truss Bents on Piles
ACROSS ZUNI RIVER
ZUNI, NEW MEXICO
1929

DESIGNED BY C. A. B. RECOMMENDED
DRAWN BY L. G. B. APPROVED

COPY

August 9, 1929

Mr. Geo. A. Trotter, Supt.,
Zuni, N. M.

Dear Mr. Trotter:

Will you kindly inform me whether you have yet made a contract or received bids for drilling your well at the village.

We would like to get the use of whatever rig comes down there for a few days to put down a test hole at our dam site on the Nutria and thought that if you had made a contract we could take it up with whoever was your successful bidder and arrange for him to do this work when he is down there, either before or after he drills your well. It would only take a few days.

I understand that there is a man by the name of Joe Turner who lives at Laguna who has an Armstrong well rig in good condition. If you have not already secured bids and do not know of this man, you might send him one of your advertisements to see what kind of a bid he would make for you.

Yours very truly,

H. F. Robinson
Supervising Engineer

HFR/JL

COPY

UNITED STATES
DEPARTMENT OF THE INTERIOR
INDIAN FIELD SERVICE

Telegram Dated Aug.6, 1929.

Zuni, New Mexico.

% Womack
Edgar K. Miller
Keams Canyon, Ariz.

Only one bid drilling well, Bently at Holbrook
350 per foot. Should we readvertise or recommend acceptance.

Trotter.

Telegram sent August 7, 1929. 1:45P.M.

Supt. Trotter;
Zuni, New Mexico.

Recommend acceptance.

T T

Womack.

Sent Collect.

Mr Robinson,
This was recommended as I am
sure that Trotter can not get
a responsible drill anywhere cheaper,
as Womack

COPY

WESTERN UNION

Indian

Gen.Ex.Ind.Ser., 1930.

NIGHT

Washington, D. C., July 30, 1929.

H. F. Robinson,
104 Kimo Building,
Albuquerque, New Mexico.

Detail an engineer at once assist Trotter prepare
estimate to replace bridge over Zuni recently destroyed.

(Signed) C. J. Rhoads
RHoads.

COPY

CLASS OF SERVICE

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WESTERN UNION

NEWCOMB CARLTON, PRESIDENT

J. C. WILLEVER, FIRST VICE-PRESIDENT

SIGNS

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Received at 205 West Central Ave., Albuquerque, New Mexico

Always Open

PSA464 16 NM GOVT=WASHINGTON DC 30

1929 JUL 30 PM 10 23

H F ROBINSON=

104 KIMO BUILDING ALBUQUERQUE NMEX=

DETAIL AN ENGINEER AT ONCE ASSIST TROTTER PREPARE ESTIMATE TO REPLACE BRIDGE OVER ZUNI RECENTLY DESTROYED=

RHOADS.

COPY

Medical
21875-23
H C C

Mr. O. A. Trotter,
Supt. Sani Agency.

MAY -4 1929

My dear Mr. Trotter:

Reference is made to correspondence from your jurisdiction regarding the prevalence of dysentery among the Sani Indians. The report from District Medical Director, Dr. H. J. Warner, regarding this situation, is quoted in part as follows:

The dysentery prevalent in Sani has all the appearance clinically of a bacillary dysentery. Cases occur throughout the year, though the number greatly increases during July and August, when fruit and melons are the aggravating factor.

Bacillary dysentery is transmitted by water, milk, food, flies and contact. No milk is used by the Sani, so this factor is eliminated as a method of transmittal. All the other factors are present, at least during the summer months. While no doubt there is a certain amount of transmittal of dysentery by food, flies and contact, I am inclined to believe that contaminated water supply is the most potent factor. Formerly the white traders and their families in Sani pueblo had dysentery, but about three years ago they put down a deep well, and obtained a good water supply. Since then, the whites do not have dysentery, though they are exposed more or less to the other factors.

Another reason that leads me to believe that water supply is the cause of the dysentery is that since the Indian Service put down a deep well at the day school, about one-fourth of the pueblo gets its water supply there, and the incidence of dysentery has dropped considerably. About three-fourths of the Indians take their water from the creek which runs through the village. This stream, of course, receives all the surface drainage of the pueblo and corrals.

In my opinion water from the day school deep well should be piped to all parts of the pueblo, so that hydrants

COPY

will be readily available to the entire population, as Indians will not walk far to get pure water, when dirty creek water is nearer. With a pure water supply readily available, I believe that dysentery would cease to be a menace to the Sund Indians.

The appropriation for 1930 makes provision for the sum of \$2500 for a domestic water supply for the Sund people and funds for this purpose will be included in your budget authority for 1930. When this becomes available, you should call upon the district medical director and the Irrigation Service for such help as they may be able to give you in the development of this supply and the proper piping to hydrants so that it may be made available to the entire population of the pueblo.

When this is done the use of the dirty creek water should be prohibited, and with a pure water supply and the elimination of the polluted supply, it is believed that dysentery will probably cease to be a menace to these Indians.

Very truly yours,

(Signed) Chas. H. Burke

Commissioner.

Copy to Mr. Warner, Medical Director.

M. E. Robinson,
Supervising Engineer.

COPY

FRED H. BENTLEY

Water Well Contractor

Dealer in All Equipment

HOLBROOK, ARIZONA

Holbrook Ariz

6/8/28

Mr Q. N. Wornach
Polacca Ariz

Dear Sir:- In regards to the well Mr Geo. A. Lester tells me will be let for contract about July 15th and that you will be in direct charge of contract and work at your place.

I would appreciate very much a chance to place a bid on this work when it is ready, I assure you that should we be ^{the} successful bidder it will have prompt and personal attention.

We have established a reputation during the past 12 mo in this district of doing good and quick work and are at all times trying to improve our equipment and service to uphold the same.

I would like to meet you personally to discuss this or any other work you may have in view, as during the past 5 years while working near Holbrook with the various Oil Companies I have heard a great deal of your foresight and ability as an expert on water well development. It is always a pleasure to talk shop with a capable man along this line.

For references I will be glad to furnish a list of former employees and customers on request.

Yours very truly
Fred H. Bentley

COPY

Zuni.

Polacca, Ariz.

June 21, 1928

Mr. Fred. E. Bentley

Holbrook, Ariz.

Dear Sir;

Your letter of June 8th. relative to letting well contract etc. received, I have not been notified up to date that I will have anything to do with this well, either by wording the contract are supervising the well in any way, Therefore I refer you to Mr. G.A. Trotter Supt. Zuni Agency, Blackrock N.M. In the event that I should be called on to assist Mr Trotter in any way relative to this well, may come in contact with you later, and will be glad to meet you and talk over any of the points mentioned in your letter.

Very Respectfully

C. A. Korman

CC H.F. Robinson

G.A. Trotter

*Letter enclosed to show course
written this letter* **COPY**

December 29, 1927

Mr. Geo. A. Trotter, Supt.,
Blackrock, N.M.

My dear Mr. Trotter:

Referring to the raising of the Zuni Dam to furnish additional water for the Indians, the necessity of which you are fully aware.

When this was taken before the Appropriations Committee in Congress this month and it was suggested by the chairman of the committee that the Zuni Indians should furnish the labor for this work without pay, or rather on the basis of one-third pay as we are doing most of our Indian work now so that the Indians will have a little income wherewith to purchase the necessities of life, the chairman made these two statements:

"And there are many of them available for work at different seasons of the year and it seems that we might consider commencing the construction of the reservoir in the next year or two on a cooperative basis under which the Federal Government should furnish the material and supervision and the Zunis should furnish the labor." And he further stated:

"Would it not be well for your Bureau to give serious consideration to the matter of raising the dam but under an agreement with the Indians by which they would contribute very largely on the one-third and two-thirds basis."

Commissioner Burke then makes the following comment:

"The chairman's idea is apparent that in handling this work the Government should furnish the material and supervision and pay the Indians one-third of their labor, taking them at a time when otherwise they would be not so busy, they to contribute two-thirds of the labor. You will take this matter up with the superintendent and the Indians to ascertain their attitude and submit a report thereon."

COPY

In accordance with the above quotation I am now taking the matter up with you and would ask you to give me your suggestions as to the best method of getting it before the Indians. It might be wise for me to come out there and have a council with the Indians and yourself at sometime in the near future when road conditions are favorable. But in the meantime, would it not be a good plan for you to take the matter up with them, giving them the general statement as to the necessity of raising the reservoir although they are aware at the present time of the silting up and the small capacity that is now left. Tell them that the Government seems to be willing to furnish material and superintendence and pay them for one-third of the labor and find out whether they are willing to assume the burden of furnishing two-thirds of the labor without pay from the Government inasmuch as the work is entirely for their benefit and unless the work is done, in a comparatively few years they will be without storage in the reservoir and their situation, so far as irrigation goes, what it was before the reservoir was built.

By making this statement to them and not demanding an immediate answer they could have time to thoroughly thrash it out in their own councils and be in shape to approach the question at a little later date in an intelligent manner and be ready to give a definite answer. It could also be considered at this time how arrangements would be made to furnish the labor and whether they could guarantee that there would be a sufficient supply when we would need it. After we commence the work it would be necessary to keep it going because the cost to the Government for superintendence and their overhead charges would continue and the only way that this could be kept into a reasonable figure would be by the close cooperation of the Indians and the labor coming regularly as it should. We would not want to be in the position after we had bought material and commenced work, of having to go to the village every day or two and plead with the men or their officers to get the men on the job.

Please let me know what you can do immediately on this and the attitude of the Indians, that I may make a preliminary report to the Indian Office. I am sending a copy of this letter to the Office for their information.

I might say that our plans are not all worked out and we do not know yet what it will cost. Mr. Burns is busy on it now and I think that we can have our plans and preliminary estimate completed within the next few

weeks and will then be in shape to state how much it will cost and how much labor will be necessary.

Yours very truly,

HFR/JL

Supervising Engineer

cc to Indian Office

COPY

Irrigation
4190-25
F B M

JAN 21 1927

Mr. George A. Trotter,
Supt. Zuni Agency.

JAN 18 1927

My dear Mr. Trotter:

Receipt is acknowledged of your letter of December 1, 1926 in further reference to an appropriation for increasing the storage capacity of the Zuni reservoir.

As stated in Office letter to you of October 21, 1926, it is fully realized that increased capacity must be added to the reservoir in order to provide for the agricultural operations in the future. No item for this purpose is included in the Interior Department Appropriation Act for the next fiscal year and the matter of obtaining funds for this purpose will be given consideration in preparing the estimate for the fiscal year 1929. A copy of this letter is being sent to Supervising Engineer Robinson for his information.

Very truly yours,

(Signed) E. B. Meritt

Assistant Commissioner.

1-WES-10-1

Copy to Supervising Engineer Robinson

120
COPY

Irrigation
46189-26.

DEC -4 1926

Zuni Indian Agency,
Zuni, New Mexico,
Dec. 1, 1926.

Commissioner of Indian Affairs,
Washington, D. C.

Sir:

In Office letter of October 21, 1926, reference above, it was stated in answer to letter from this office, dated September 28, 1926, that while the matter of securing funds to begin construction would receive appropriate consideration, that the experimental work on the prevention of silt should be observed a little longer in order that its efficiency could be determined.

The Office is advised that a delay in this work of raising the dam may result disastrously to these Indians, as an average year with the capacity of the reservoir reduced, as at present, would mean an almost total crop failure for these Indians. If an appropriation could be secured during the present term of Congress on the basis of cooperative work by the Indians a sufficient amount of storage capacity could be secure before the spring rains, the water from which with the present capacity of the reservoir could not be utilized as this would go down the river and be lost to the Indians.

There is, no doubt, as to the efficiency of the prevention work being done in holding back the silt and while a small amount will continue to get into the reservoir, it is the only manner by which, the engineers have decided, can care for the situation as it now exists. It is hoped that every effort will be made to secure early action in this case before a water shortage, with its resulting crop failure occurs.

Very truly yours,

G. A. Trotter,
Superintendent.

T:C
e.c.
Supervising Engineer, Robinson.
Albuquerque, N. M.

COPY

Irrigation
46139-26.

DEC -4 1926

UNITED STATES
DEPARTMENT OF THE INTERIOR
Office of Indian Affairs,
Washington, D. C.

Oct. 21, 1926.

Mr. George A. Trotter,
Supt., Zuni Agency,

My dear Mr. Trotter:

Your letter of September 28, 1926, and copy of communication by Supervising Engineer Robinson addressed to you under date of September 11, 1926, concerning the increasing of the capacity of the Zuni Reservoir, have been received.

It is realized that increased capacity of the reservoir must be added if the Indians of this pueblo are to continue, in the future, their agricultural activities. The experimental work on the prevention of silt entering the reservoir should be observed a little longer to determine definitely its efficiency. The matter of securing funds to begin construction work on increasing the reservoir capacity will receive appropriate consideration in preparing the estimates of the next fiscal year. It may be said that if appropriations are made they undoubtedly will be made on a basis that the greatest cooperation is given by the Indians are willing to cooperate in this respect.

~~A copy of this letter is being sent to Supervising Engineer Robinson for his information.~~

Very truly yours,

(Signed) E. B. MERITT
Assistant Commissioner.

COPY

September 11, 1926

Mr. Geo. A. Trotter, Supt.,
Blackrock, N.M.

My dear Mr. Trotter:-

In compliance with my promise, I am sending you a copy of part of a report on the silting of the Zuni Reservoir with diagram which will probably give you a better idea of conditions than I could give you in any less space.

Now regarding the future of the reservoir. The capacity left at the 1000 foot contour which is the maximum height that water can be held at the present time, was on the 1st of January, 1926, 925 acre feet. To properly irrigate the lands under the project we should have not less than 8000 to 10,000 acre feet per year. It can be seen, therefore, that the storage capacity of the reservoir will be absolutely inadequate to carry the project over a possible two or three months of dry weather during the growing season.

As far back as 1922 a report was made to the Indian Office showing that it was perfectly feasible to raise the Zuni dam ten feet which would increase the reservoir capacity over 4,500 acre feet. It is unnecessary to repeat the details of this report to the Office which covered some twelve pages. The estimate made at that time for raising the dam was \$52,780.00 which would mean a cost of \$11.57 per acre foot of water stored. It is now doubted whether this amount will be entirely adequate for the work but it probably will do what we desire to give the additional water supply to these Indians.

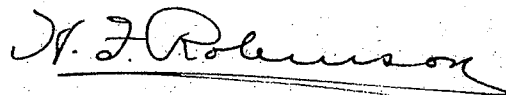
The raising of the dam would mean that the dam proper would be raised ten feet. The spillway would have to be modified so the crest of the weir would be ten feet higher than at present and from the south end of the spillway an earth embankment about 1250 feet long would have to be built to prevent the high water from overflowing the ground occupied by the camp buildings and the mill. Further south

COPY

and east an earth bank would have to be built across some of the low gaps to prevent water escaping into the valley that way. Last year the productiveness of the Indian fields was cut down considerably by lack of water. It is probable that the crop returns for this year will be fairly good because of the unusual distribution of rainfall which gave us natural irrigation when most needed, allowing the water in the reservoir to be conserved in a way that it would not be in the average year. Our protection work on the watershed is reducing the silt brought into the reservoir but at the same time there is a gradual lessening of the capacity and unless this construction is undertaken promptly there will be a serious condition created to the detriment of the Indians.

As it will take at least two years for the program outlined for construction it is believed that immediate action should be secured to have money appropriated for this work. This matter has been called to the attention of the Office several times in the last four years and was made quite prominent in my annual report this year and it is believed that only the economy plan of the administration has prevented some action being taken already. It is hoped that the administration can see its way clear to give us an appropriation in 1928 and it is hoped that you being on the ground and seeing the great necessity for this work can add your word urging that early action be taken.

Yours very truly,



Supervising Engineer

HFR/JL

cc Indian Office
cc W. M. Reed, Chief Engineer

COPY

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Blackrock, N.M.

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COPY

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Yours very truly,

WFR/JL

Supervising Engineer

cc Indian Office
cc W. M. Reed, Chief Engineer

COPY

April 19 1926.

R. J. Bauman,

Superintendent,

Blackrock, N. M.

Dear Mr. Bauman:

Relative to the pipeline across the Zuni dam. Your plan is all right, and is approved, provided that you place the pipe high enough so there will be no danger from debris etc. catching on it in case of floods, and provided the construction work is done under the general supervision and to the satisfaction of Mr. Fenton.

I hope to be out to see you in a couple of weeks.

Very truly,

Supervising Engineer.

COPY

APR 19 1926

5-1142

DEPARTMENT OF THE INTERIOR

UNITED STATES INDIAN FIELD SERVICE

ZUNI INDIAN AGENCY,

Blackrock, N. Mex., April 15, 1926.

Mr. H. F. Robinson,
Supervising Engineer,
U.S. Indian Irrigation Service,
Room 200 Korber Block,
Albuquerque, N. Mex.

Dear Mr. Robinson:

The Indian Office has granted authority for me to lay a new pipe line for our School water system, from the spring on the north side of the river to the storage tank at the school, same to run across the mesa from the spring, across the top of ~~the top of~~ the Zuni Dam at Blackrock, across the spillway of the dam, thence in a southwesterly direction to the tank.

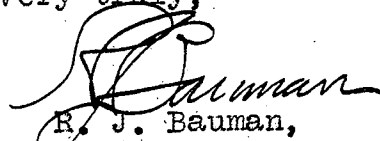
Your permission is requested to lay this pipe line across the dam and spillway-under your supervision. It is proposed to bury the pipe, below the frost line, in the center of the top of the dam and run it across the spillway, below the weir, on trusses constructed of angle iron im-bedded on the bottom in the floor of the spillway.

I was of the impression that this matter was arranged between the Office, Mr. Smoot and yourself. Mr. Smoot now tells me this has not been done. He says Mr. Reed and yourself went over the proposition *with* him and that you both agreed that that was the best solution of the situation, and expressed approval of the plan.

Please give me your permission. I am getting material on the ground and am *n*axious to get the work under way at earliest possible date. It is being done "open-market" and therefore should be completed previous to July 1st, next.

Thanking you for the courtesy, I am,

Yours very truly,


R. J. Bauman,
Superintendent.

COPY

July 29 1925

5-1142

DEPARTMENT OF THE INTERIOR

UNITED STATES INDIAN SERVICE

Zuni Indian Agency,
Blackrock, New Mexico.
July 17, 1925.

Mr. H. F. Robinson,
Supervising Engineer,
Albuquerque, New Mexico.

Dear Mr. Robinson:

In reply to your letter of June 30 with reference to my census report covering the Zuni reservation for the fiscal year 1925, please be advised that my report shows as follows:

Male 1064
Female 868

Total pop. 1932 (full blood). Zuni tribe.

It is also estimated that there are 600 head of families, each living in a permanent house.

Very truly yours


R. J. Bauman,
Superintendent.

WL

COPY

If its
SPEED
 you want
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WESTERN UNION TELEGRAM



Form 1201

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NIGHT LETTER	NL

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ROBINSON

266

INDIAN IRRIGATION ENGINEER ALBUQUERQUE NMEX

PLEASE WIRE ME ESTIMATE COST TWENTY TWO THOUSAND FIVE HUNDRED
 FEET WOOD PIPE SUCH AS YOU MENTIONED TO PIPE WATER
 FROM BLACKROCK TO ZUNI FOUR INCH DIAMETER OR WHAT YOU
 THINK BEST OR MAIL ADDRESS OF FIRM AND CATALOGUE DEALING IN SAME
 AND DESCRIBE WHAT IS BEST THIS IS FOR ESTIMATE PURPOSE ONLY

BAUMAN

740P

COPY

Black rock agency

Albuquerque, N.M.
September 22, 1924

Mr. Robert J. Bauman,
Superintendent,
Black Rock, New Mexico.

My dear Mr. Bauman:-

I have no late quotations whatever on the wooden pipe so I am unable to wire you an estimate of the cost, even sufficient for estimating purposes. Herewith find a page torn from the last Engineering News-Record, giving six addresses of people making the wood pipe and I presume that you can get a reply from them giving quotations quicker than I could get quotations and forward them to you. And, as a matter of fact, I would scarcely have time to do that and get prompt action as I returned from a trip to Oklahoma last night and am leaving tonight for southern Arizona to be gone a week or two. What you will want, of course, is the 4 inch machine wire wound or machine banded pipe, probably similiar to that illustrated in the second advertisement on the page.

Trusting this will give you the necessary information, I am

Yours very truly,

HFR/JL

Supervising Engineer.

COPY

*Mr. Bauman
Sup. Blackrock*

JUNE 25, 1923.

Mr. Robert J. Bauman, Superintendent,
Blackrock, New Mexico.

My dear Mr. Bauman:

I enclose a copy of a letter that was received by the Supervisor of the Manzano Forest here, and was submitted to me to see if I could get some action in the matter.

I am under the impression that the non-reservation Navajos occupying the land north of the Zuni Reservation, are under your jurisdiction and it would seem from this letter that there are some white settlers who have developed water from a spring by digging a well. The Indians are allowing their stock to contaminate the water, making it unfit for use by the white people.

If these Indians are under your jurisdiction, will you kindly look into the matter and see what can be done. I would appreciate it if you would let me know what action is taken.

Yours very truly,

HFR:H

Supervising Engineer.

cc Kattcheer.

COPY

COPY

Gallup, New Mexico.
June 12, 1923.

Forest Supervisor,
Albuquerque, N.M.

Dear Sir:

I was informed today through Mr. G. P. Wirtz, who has made S.R.H. Entry, on Sec. 26, T 12 N, R 19 W, N.M.P.M. and has been on this land for the past three years, and on Sec. 24 same township and range there is a spring of water, in Forext Reserve. This is the only water that is near his land, and Mr. Wirtz and other settlers have dug a well under a rock at this spring, securing their water, placing a fence around the same, and allowing ample water and room for stock away from said well. The Indians are giving the settlers much trouble by letting their goats and sheep go to said well thereby making this water unfit for use.

They only asked me to write you and give you the above facts. If possible they would appreciate any favor you may give in aiding and protecting this, their only water. They are not depriving the Indians of ample water for their stock for their use.

Yours very truly,

C. H. Ford,

U. S. Comm.

COPY