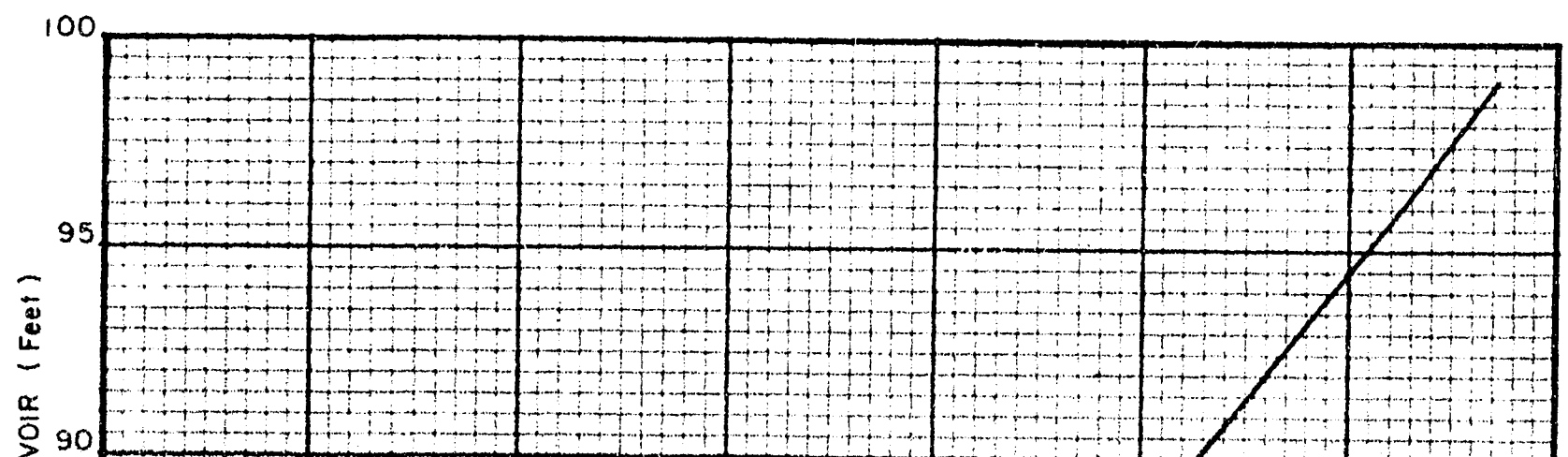
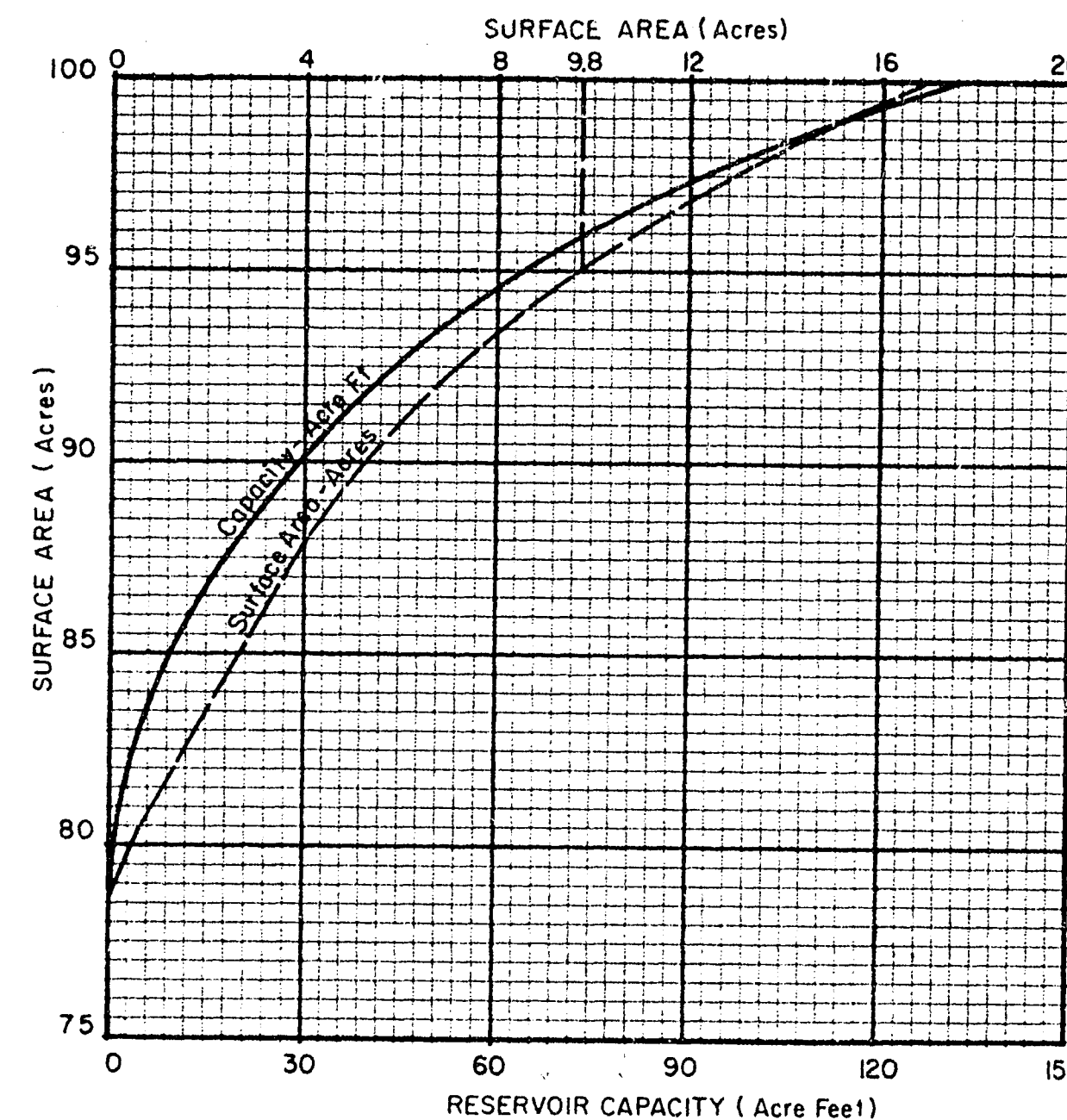
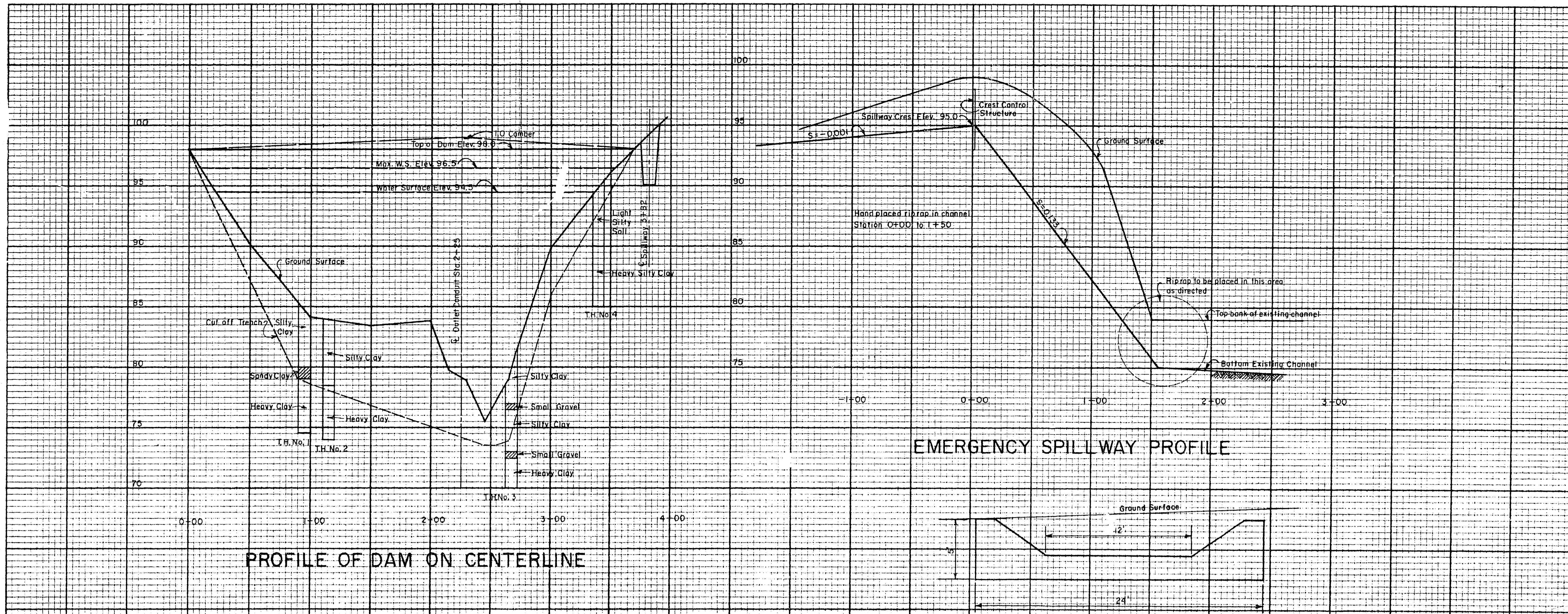
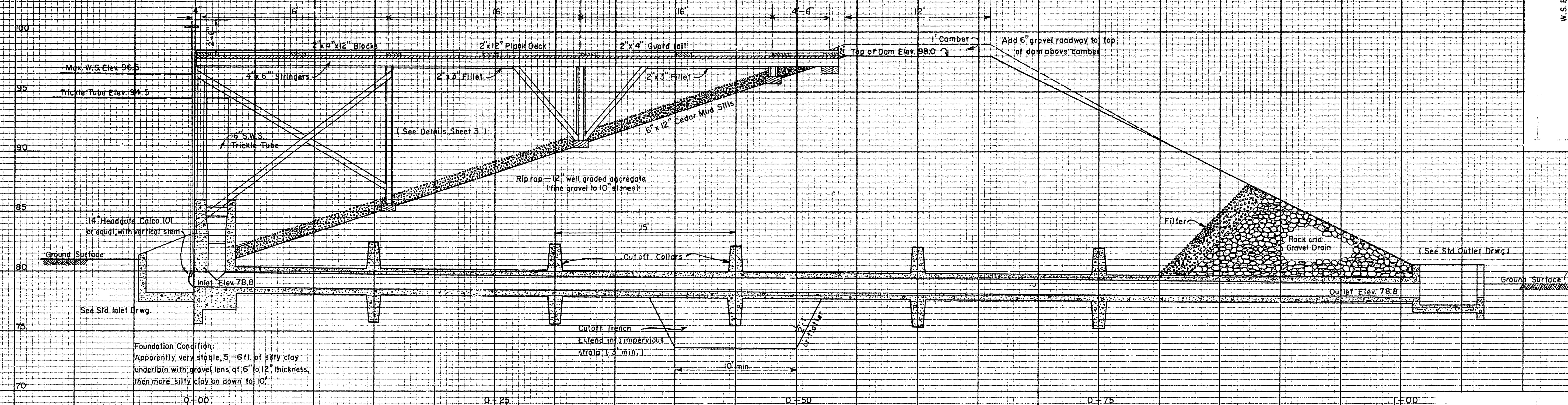
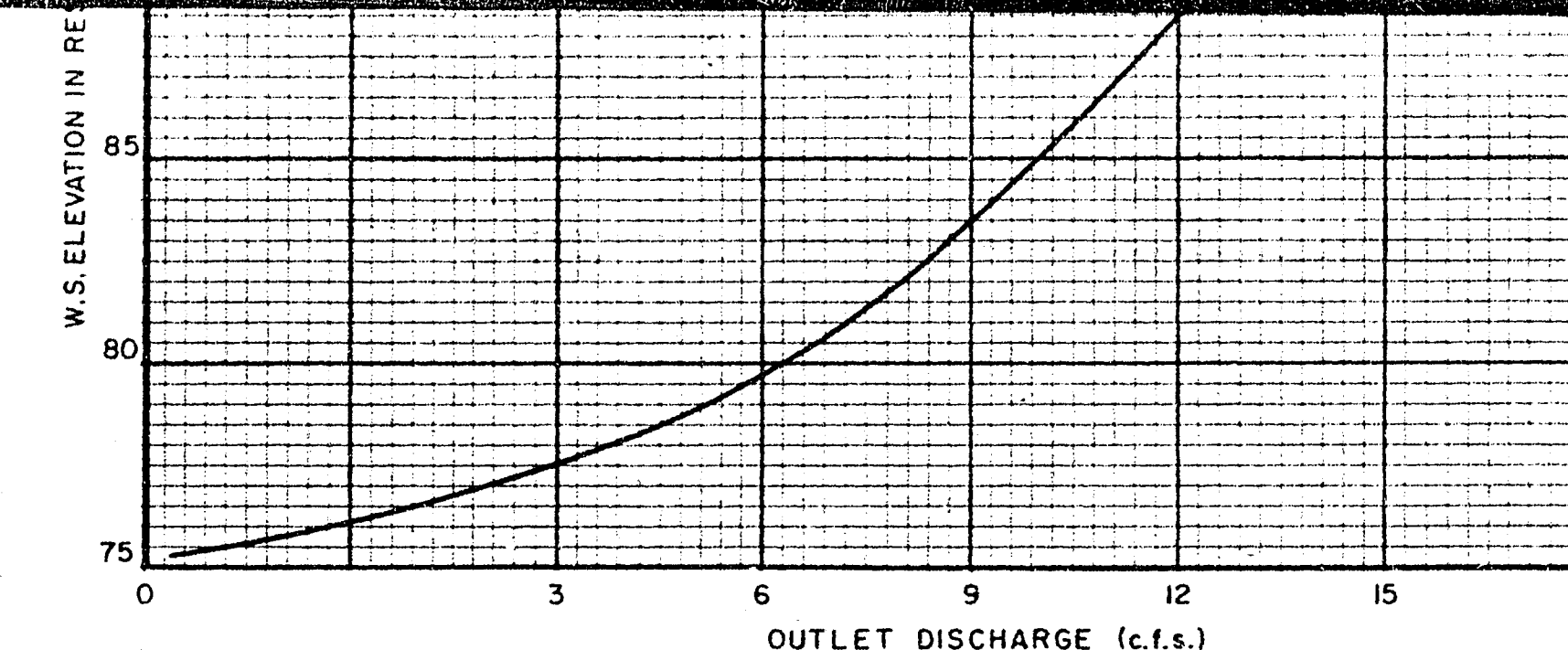




SPILLWAY CREST CONTROL



CROSS SECTION OF DAM THROUGH OUTLET



CONDUIT DISCHARGE CURVE

W. MAURICE TINGEY DAM
FRANKLIN S.C. DISTRICT, IDAHO

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed	G.R.F.	date	Mar. 1955	Approved by	H.J. Woodward
Drawn	G.R. Fiala	date	Mar. 1955	Title:	Engr. Specialist
Traced	J.T.C.	date	Mar. 1955	Title:	
Checked	H.J.W.B. M.H.S.	date	Mar. 1955	Dwg. No.	7-Sd-14984
				Sheet No.	2 of 3

STATE OF IDAHO
Department Of Reclamation

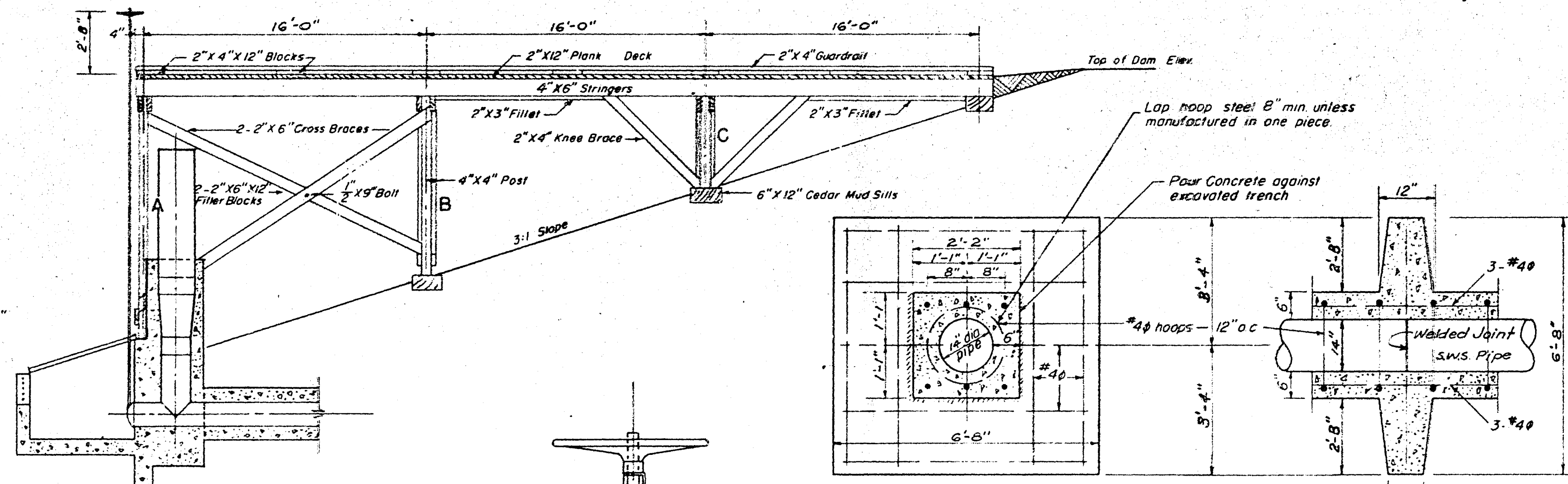
APPROVED

DATE: April 11, 1955
Permit No. R-945
Mark R. Kulp
STATE RECLAMATION ENGINEER

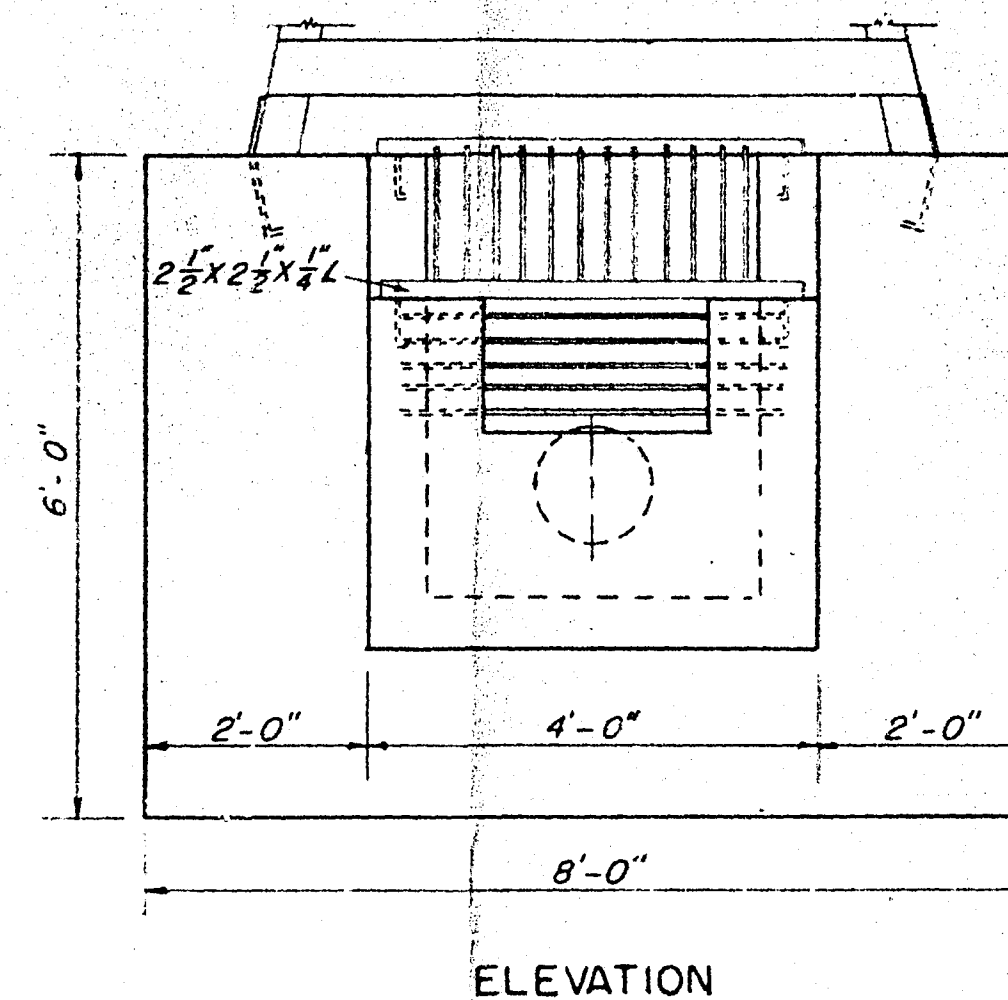
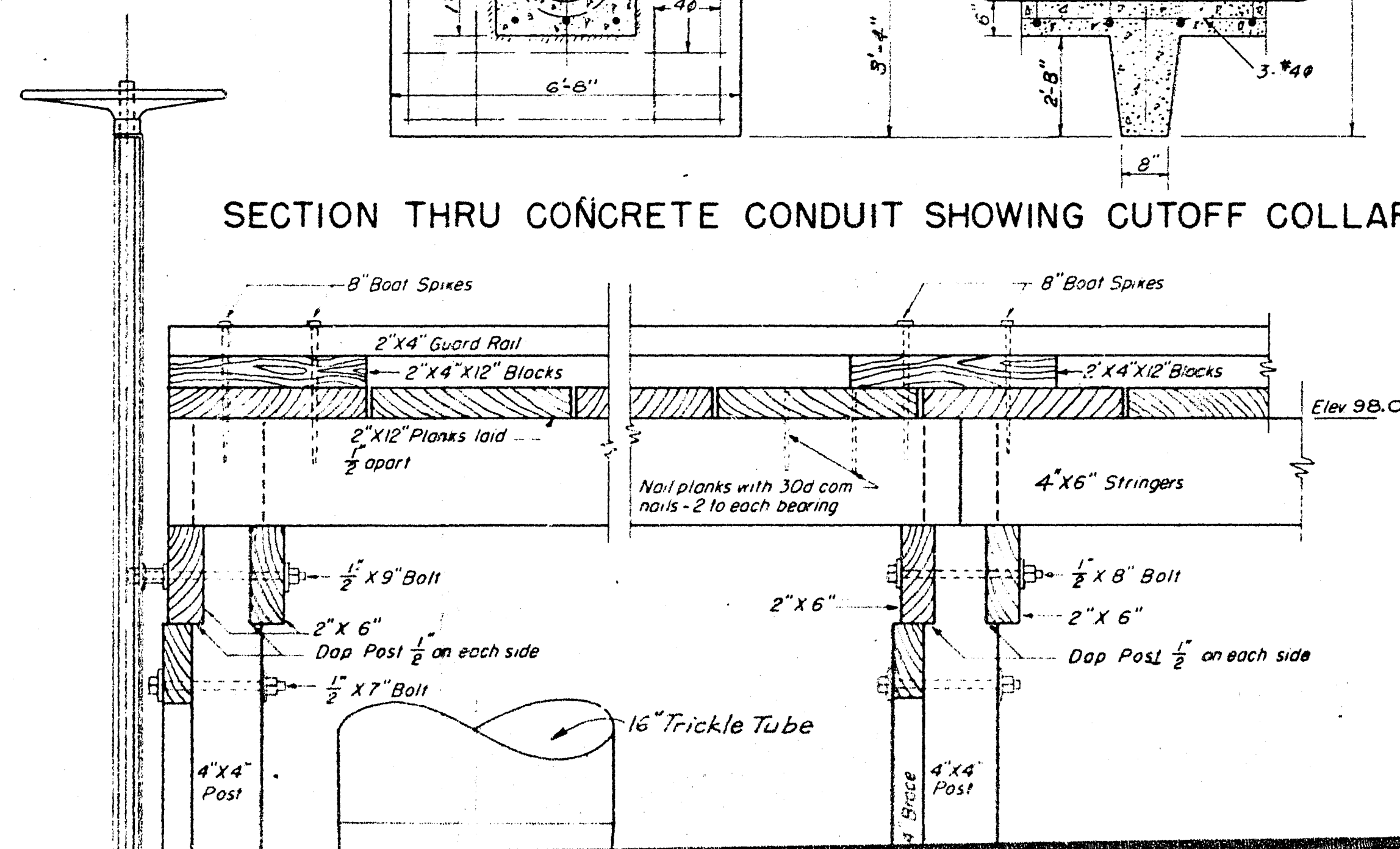
"I am hereby submitting for approval this plan as an officer of the United States Government authorized to approve and submit such plans."

W. J. W. Woodward
State Soil Conservation Engineer, Soil Conservation Service

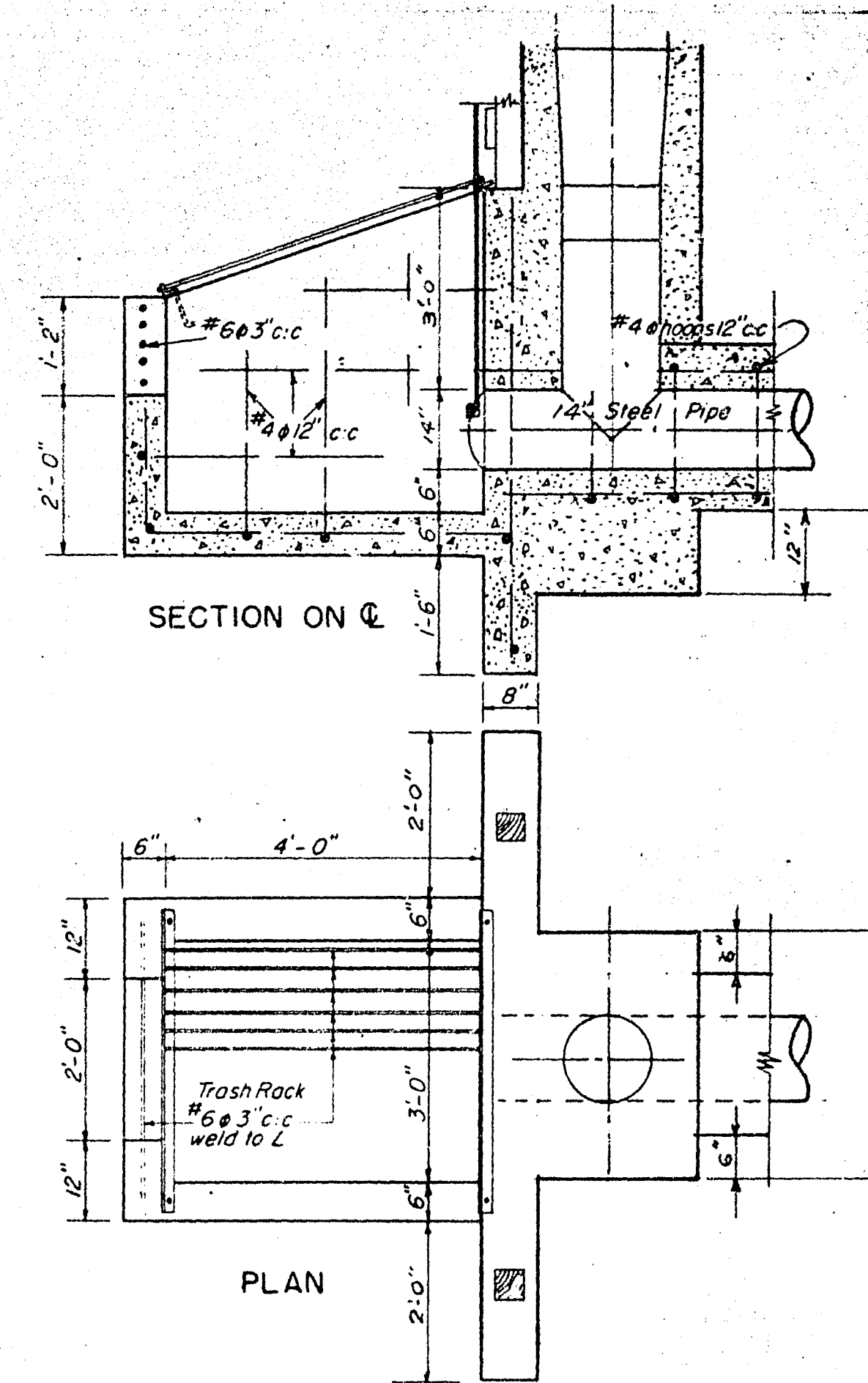
R-945



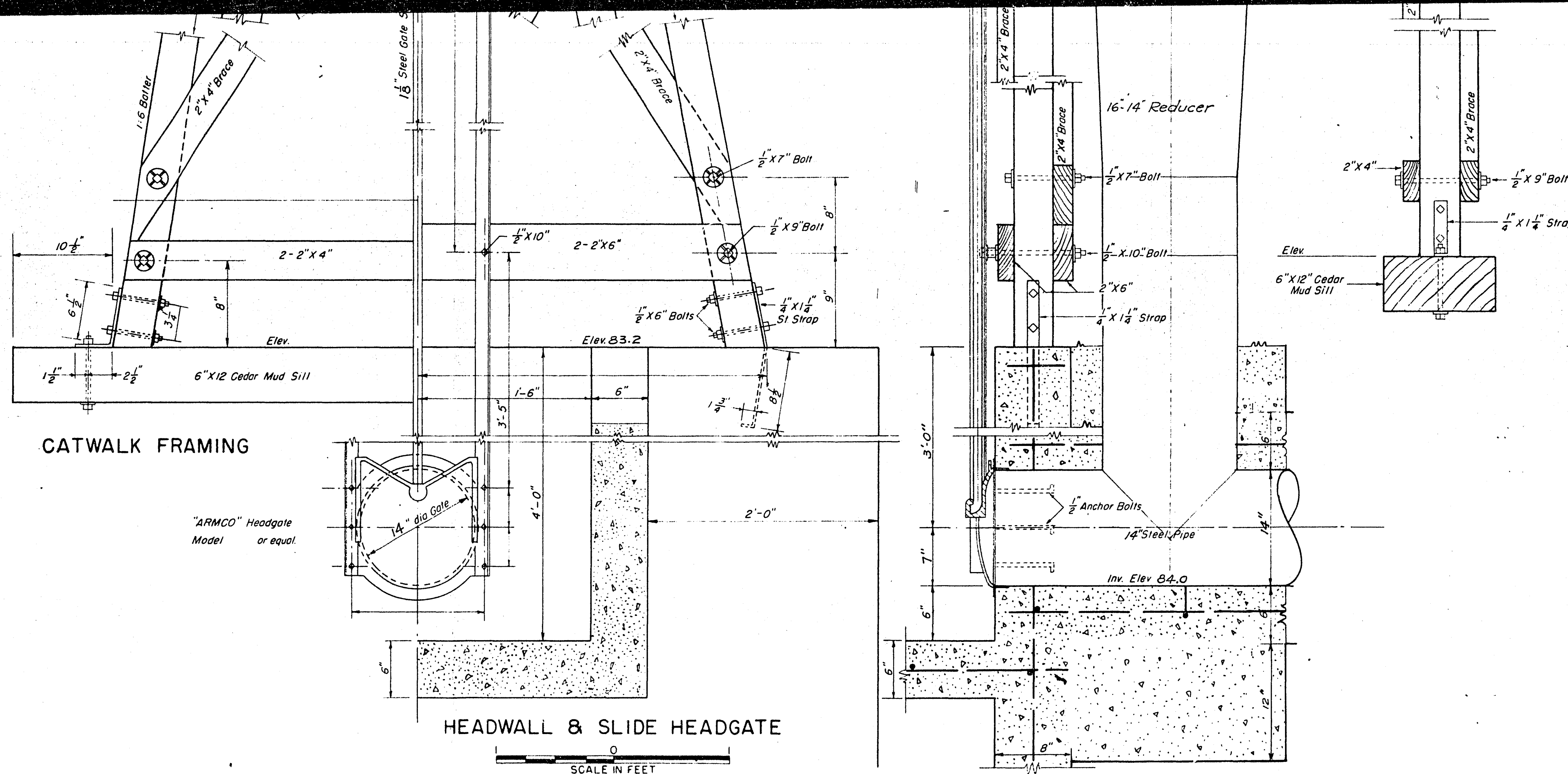
SECTION THRU CONCRETE CONDUIT SHOWING CUTOFF COLLARS



ELEVATION



DETAIL OF INTAKE STRUCTURE



"I am hereby submitting for approval this plan as an officer of the United States Government authorized to approve and submit such plans."

Meador H. Wilkins
State Soil Conservation Engineer, Soil Conservation Service

W. MAURICE TINGLEY DAM
FRANKLIN S.C. DISTRICT, IDAHO

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

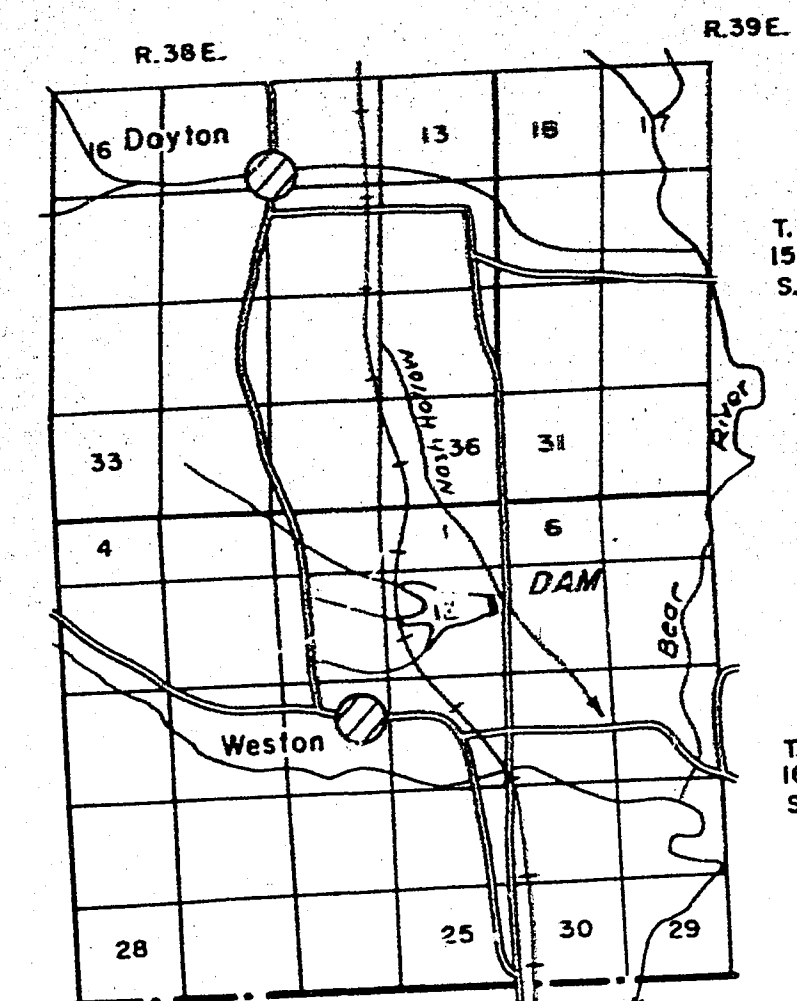
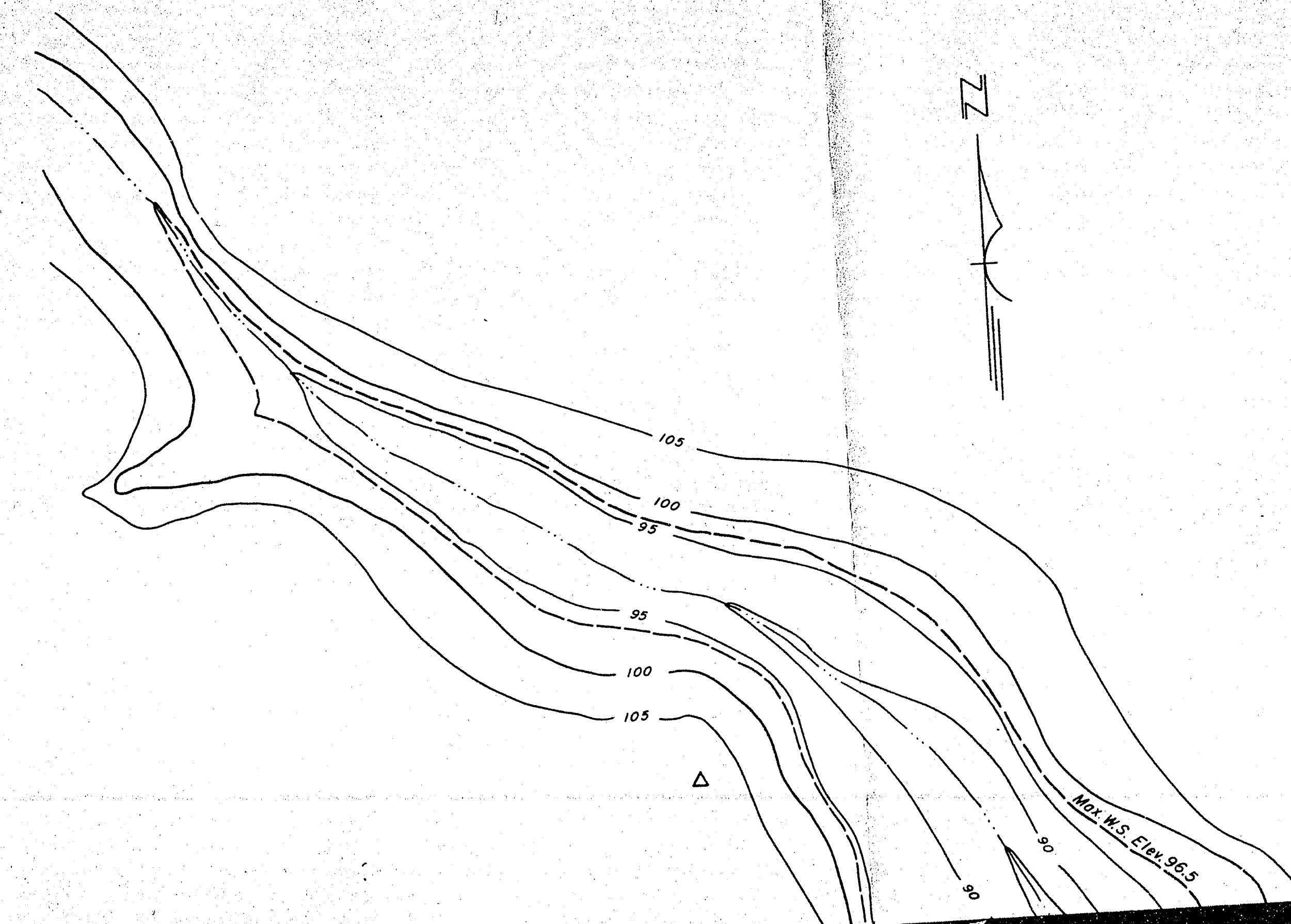
Designed G.R.F.	date Mar. 1955	Approved by <i>H.J. Woodward</i>
Drawn G.R. Fiala	date Mar. 1955	Title: Engr. Specialist
Traced J.T.C.	date Mar. 1955	Title:
Checked <i>H.J. W.B. M.H. Wilkins</i>	date Mar. 1955	Dwg. No. 7-Sd-14984
		Sheet No. 3 of 3

STATE OF IDAHO
Department Of Reclamation
APPROVED

DATE: April 11, 1955
Permit No. R-245

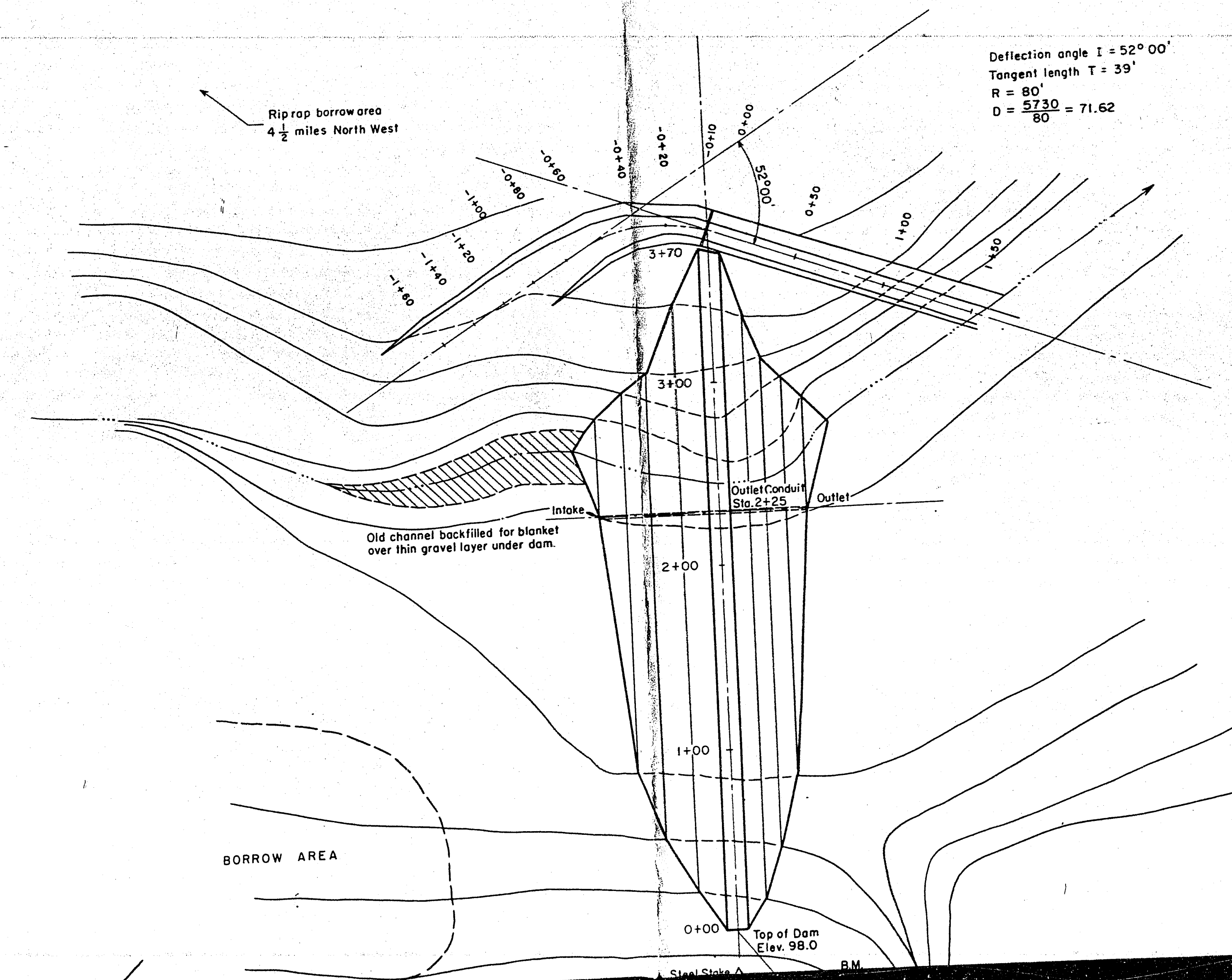
Mark R. Kulp
STATE RECLAMATION ENGINEER

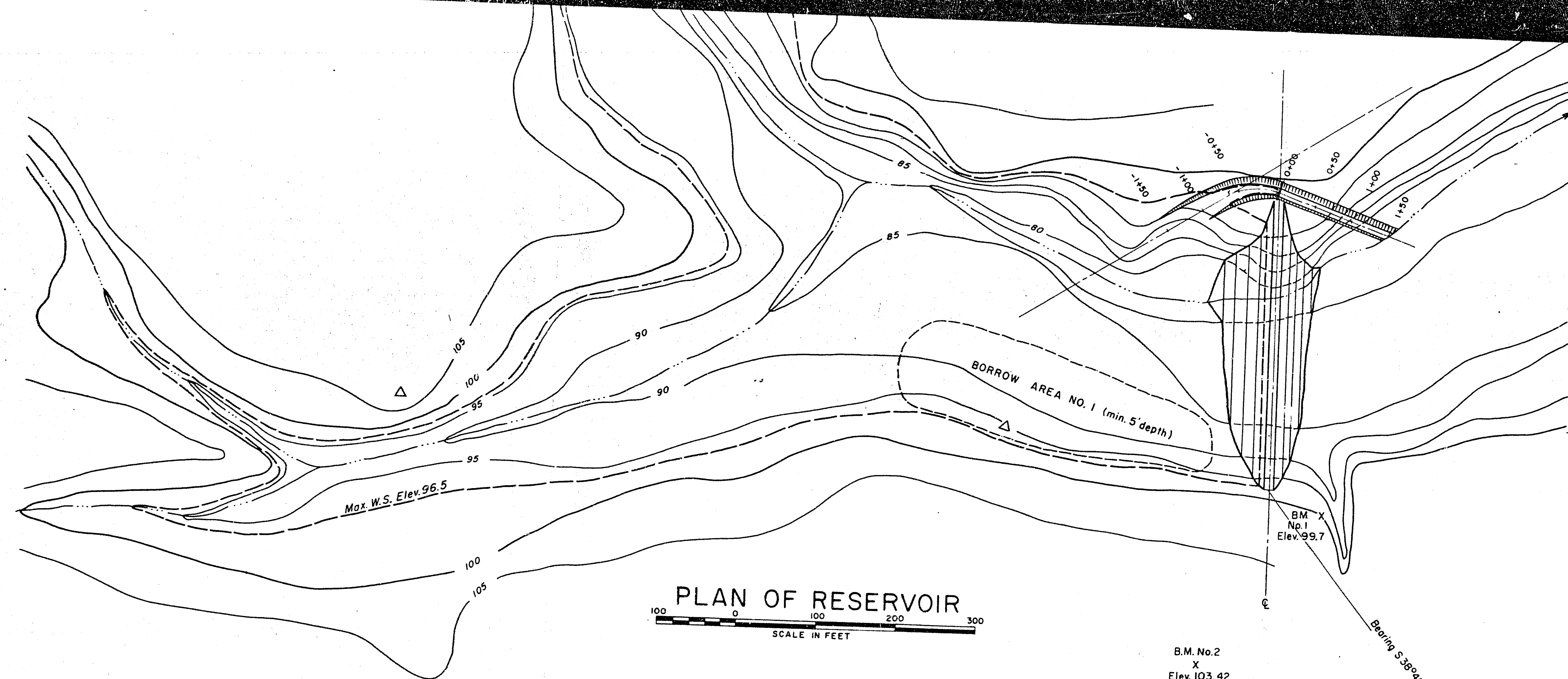
R-945



LOCATION MAP

Riprap borrow area
4 1/2 miles northwest





PLAN OF RESERVOIR
SCALE IN FEET

PLAN OF DAM & SPILLWAY
SCALE IN FEET

"I am hereby submitting for approval this plan as an officer of the United States Government authorized to approve and submit such plans."

W. Maurice Tingey
State Soil Conservation Engineer, Soil Conservation Service

W. MAURICE TINGEY DAM
FRANKLIN S.C. DISTRICT, IDAHO

U. S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

Designed G.R.F.	date Mar. 1955	Approved by <i>H.J. Woodward</i>
Drawn G.R. Fiala	date Mar. 1955	Title: Engr. Specialist
Traced J.T.C.	date Mar. 1955	Title:
Checked H.J.W. & <i>M.N.</i>	date Mar. 1955	Dwg. No. 7-Sd-1498.4
		Sheet No. 1 of 3

STATE OF IDAHO
Department Of Reclamation

APPROVED

DATE: April 11, 1955
Permit No. R-945

Mark R. Kulp
STATE RECLAMATION ENGINEER

R-945

REPORT
on
DESIGN OF AN EARTHFILL DAM
for
STORAGE OF IRRIGATION WATER

Maurice W. Tingey
Franklin Soil Conservation District
Weston, Idaho

by
Gene R. Fiala, Work Unit Engineer
and
H. J. Woodward, Area Engineering Specialist

February, 1955

2-9-55

REPORT
ON
DESIGN OF AN EARTH-FILL DAM
for
STORAGE OF IRRIGATION WATER

Maurice W. Tingey
Franklin Soil Conservation District
Weston, Idaho

by
Gene R. Fiala, Work Unit Engineer
and
H. J. Woodward, Area Engineering Specialist

February, 1955

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REPORT on DESIGN of EARTH FILL DAM

for

STORAGE OF IRRIGATION WATER

Maurice W. Tingey

Weston, Idaho

GENERAL INFORMATION

The earth fill dam for the Maurice W. Tingey irrigation reservoir will be located in the SE 1/4 SE 1/4 Section 12, T16S, R39E, B.M. immediately adjacent to the yards and buildings of Mr. Tingey. The watershed above the dam covers an area of 2.7 sq. miles on a west branch of Nash Hollow near the town of Weston in the Franklin Soil Conservation District, Franklin County, Idaho.

A dam 22 feet in height will create a reservoir capable of storing 66 acre feet at elevation 95.0 (assumed), the crest of the emergency spillway. Mr. Tingey has a storage permit to store the off-season waters of the small perennial stream which flows down the hollow. Prior rights of appropriation exist on the stream flow in the hollow which will be taken care of by diversion through the outlet structure. The stored waters will be pumped to adjacent ditches and/or into a portable sprinkler system for supplemental irrigation of Mr. Tingey's lands laying adjacent to the dam and reservoir area.

The stream channel below the dam has a severe erosion hazard potential, but the small streams encountered in the hollow have only produced light channel erosion to date.

GEOLOGY REPORT

Area Geology:

Cache Valley is an elongated narrow valley about 8 miles wide, extending from Red Rock Gap near Swan Lake, Idaho to the divide between the Little Bear River and the Ogden River some 25 miles south of Logan, Utah, a total of about 80 miles. Bear River enters the valley in an entrenched stream bed some 10 miles northeast of Preston, Idaho and meanders southward for 30 miles to finally cut through a rocky canyon in the Wellsville Range of the Wasatch Mountains into the Great Salt Lake Valley.

The mountains surrounding Cache Valley are composed principally of folded limestone and sandstone of paleozoic age. Cache Valley was inundated at one time by Lake Bonneville which covered the lower elevations of the Great Basin. This Pleistocene Lake has had a profound influence on the topography of the area. Bear River has carried alluvium from great distances upstream to drop them in the quiet waters of the great lake in the upper north end of Cache Valley. A dozen other smaller streams emptying into the valley have brought their load to help fill up the valley trough. Old shore lines with deltas at the mouth of each canyon are a striking feature along the base of the mountains.

Alluvium deposited in the lake was reworked and spread in a series of flat terraces which completely cover the valley floor. These beds are several hundred feet thick and consist of stratified, unconsolidated clay, silt, sands and gravels. Gravels are common near the old shore lines while the finer sediments predominate off-shore towards the center of the valley. Fluctuation of the water surface of the old lake and inflowing streams have complicated conditions.

Since recession of the lake by evaporation, the streams of the valley have gradually entrenched themselves in the valley sediments. Bear River, the main stem, cut down fastest and then the larger tributaries followed closely behind. Nash Hollow is a tributary to Bear River about 3 miles east of Weston, Idaho. It is a small stream which has lost some of the watershed area in late years to other streams. Because of the stream size, the hollow is a narrow shallow trench which is not fully developed, lying in the upper terraces of the main valley floor on the west side of Bear River. The west branch of Nash Hollow is about 30 feet deep at the county highway in Section 12, T16S, R39E and from there decreases in depth westward as it splits into several small headwater branches.

Dam Site Geology:

At the dam site the geology consists of stratified silty clays, clays and gravelly sands. The top soil is a medium textured friable silty clay loam which grades into intermittent layers of silty clays, clays and gravelly sands. A heavy clay layer is encountered about 3 feet below the bottom of the stream channel. See the test hole logs on the dam centerline profile.

Seepage control will consist of the excavation of a cut off trench extending into the impervious layer below the gravel strata. It is also recommended that a layer of compacted fill be placed over the exposed gravel strata in the channel for a distance of about 150 feet upstream.

SOIL MECHANICS, TESTING AND EVALUATION

A small sample of the impervious borrow material from the proposed borrow pit adjacent to the dam was taken to Portland in October, 1954 and several tests run on the material in the soils laboratory. The report of these tests is attached.

MATERIALS TESTING LABORATORY REPORT

SOIL CLASSIFICATION

PROJECT Hwy 101, 101st St		LOCATION Hwy 101, 101st St	
FIELD SAMPLE NO. --	TYPE OF SAMPLE --	ORIGIN --	
PURPOSED USE --	LABORATORY SAMPLE NO. --	TESTED BY --	
1. GROUP SYMBOL CL-2		2. DESCRIPTION Very fine clay, medium plasticity.	
3. DISTRIBUTION of PARTICLE SIZES (mm)		4. GRADING	5. SPECIFIC GRAVITY
D ₁₀ --	D ₁₅ <0.002	D ₃₀ --	D ₅₀ 0.005
D ₆₀ --	D ₈₅ 0.03	C _u --	C _c --
6. ATTERBERG LIMITS		7. UNDISTURBED CONDITION	
LL 37	PI 17	% MOISTURE --	VOID RATIO --
		UNIT WEIGHT --	% TDS --
		% ORGANIC --	
9. CHARACTERISTICS of COARSE FRACTION			
ROCK CONTENT (% > No. 4)		GRY DENSITY	MOISTURE CONTENT (SSD)
--		--	--

10. REMARKS

Good core material. Could have very flat slope if used for
roadway or other.

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SOIL CONSERVATION SERVICE
ENGINEERING and WATERSHED PLANNING UNIT
PORTLAND, OREGON

SIGNATURE

Homer L. Cappelmann Jr.

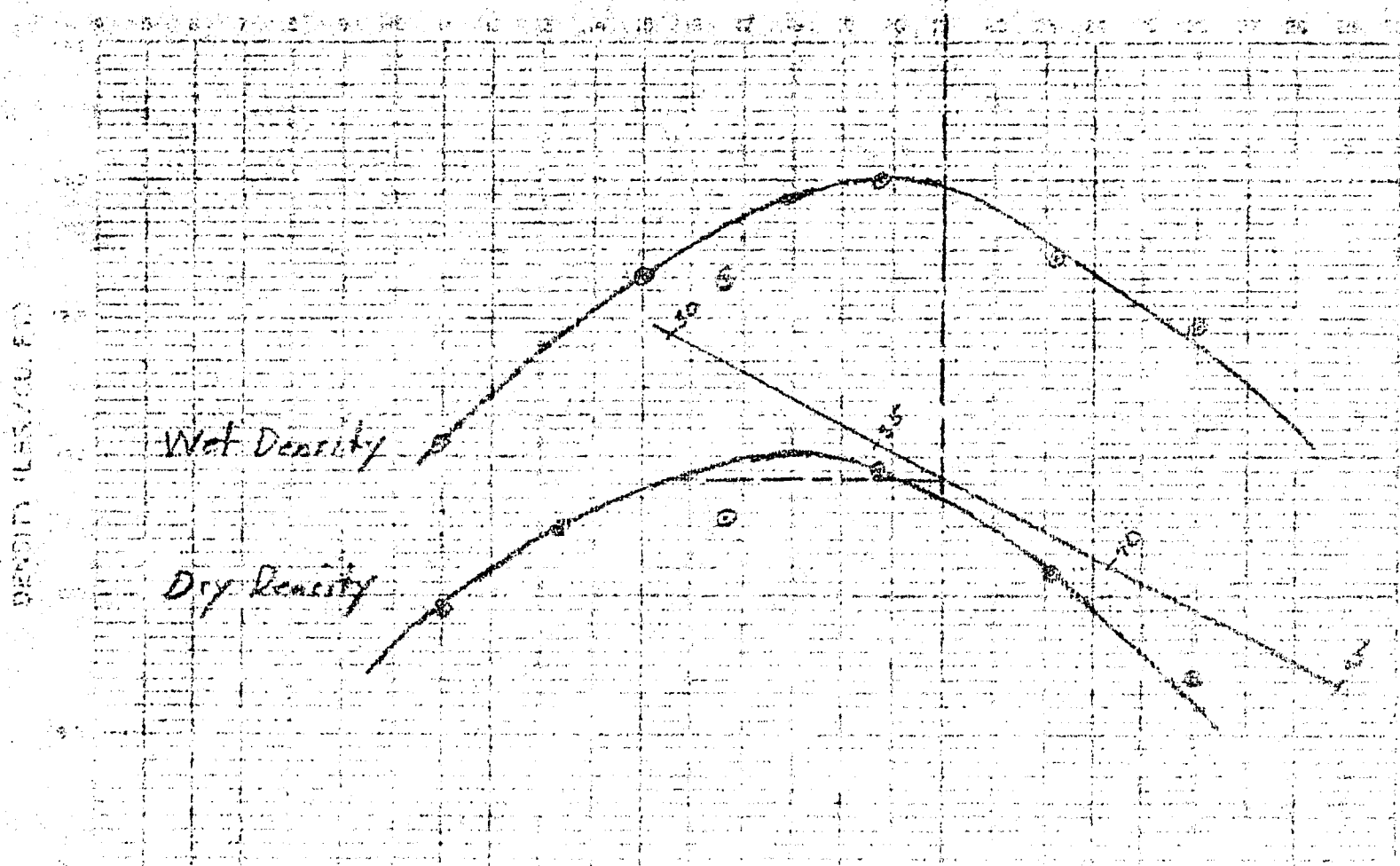
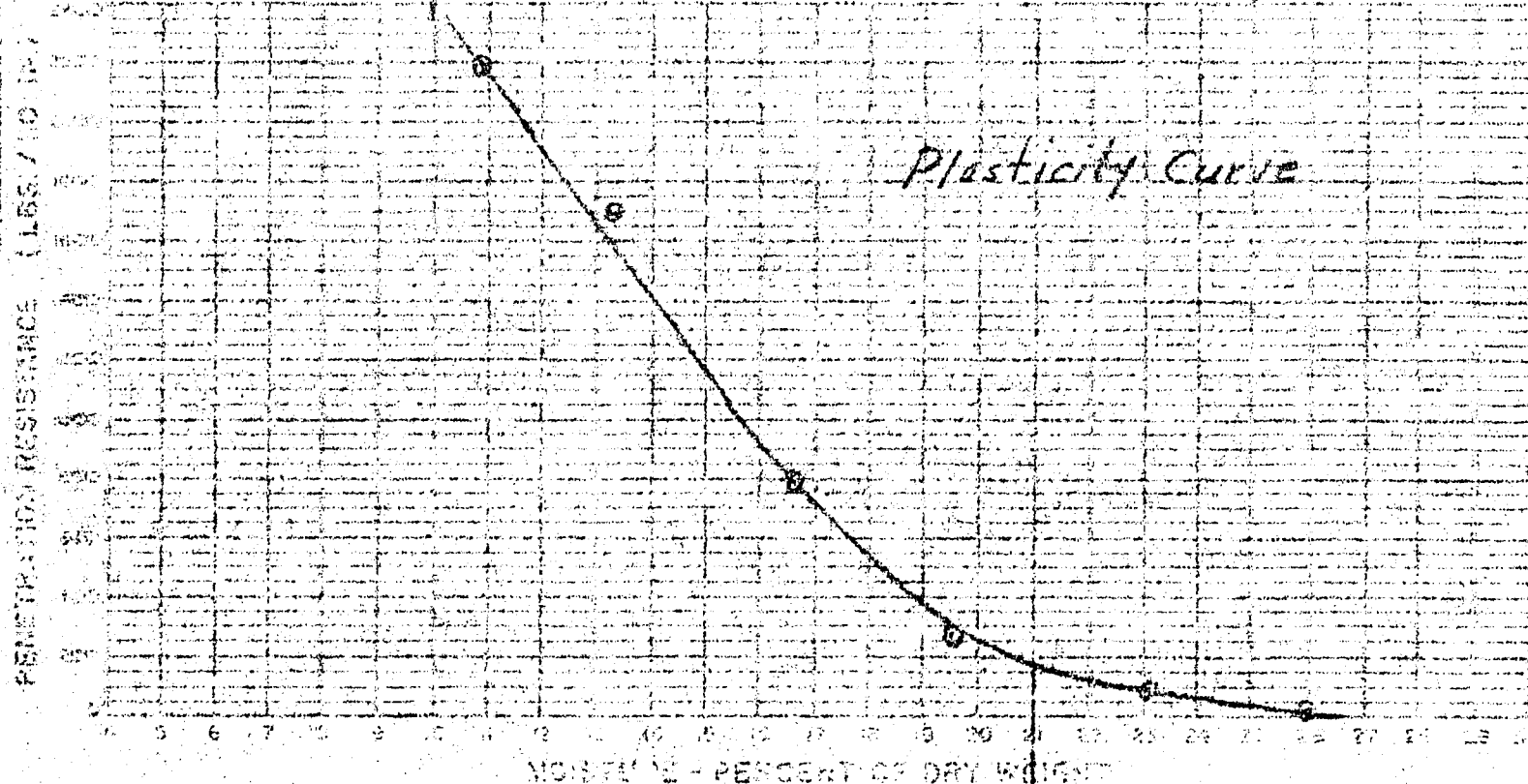
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R-945

MATERIALS TESTING
LABORATORY REPORT

SOIL COMPACTION CURVES

PROJECT: W.M. Tingey
SPEC. NO. 2
SPEC. NO. 0
LOCATION: Weston, Idaho Pit No. 18,000 ft. below surface



U.S. DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE
LABORATORY AT WASHINGTON, D.C.
FIELD OFFICE

GRF-HIW.

11/2/54

R-415

Compaction curves were developed by the Work Unit Engineer in November, 1954 from tests run at the Work Unit Office. These curves are included on form 7-L-10837a.

The material is satisfactory for construction of the impervious core of the dam.

DESIGN OF THE DAM SECTION

Dam Design Types

From the soil classification report the following data is extracted.

Group Symbol:	CL-2
Description:	Very fine silty clay, medium plasticity
Atterberg Limits:	Liquid Limit - 39
	Plastic Limit - 17
	Plasticity Index

Using the above in conjunction with the Soil Mechanics Series No. 1 and 3, the following notations are made.

From Table 2 - TMSMS #1, using Group Symbol CL-2

Behavior Group	VI
Dilatancy	Slow to none
Dry Strength	Medium to high
Plasticity	Medium
Shine Test	Shiny
Organic Odor	Slight

From Table 3 - TMSMS #1

Behavior Group	VI
Relative Resistance to Failure	
Shearing	5
Piping	2
Cracking	2
Permeability	Low
Compressibility	Medium to high
Compaction	Fair to good

These tests were verified in the field using methods outlined in TMSMS #2.

Using the information given in the geology report and the soil classification material above and using TMSMS #3.

From Table 4, Characteristics of Foundation Material

Group Symbol	CL
Shear Strength	High
Sensitivity to Shock	None
Compressibility	Medium
Permeability	Medium - low
Seepage Control Requirements	None

Using Table 5, Evaluation of Site and Foundation Condition

Site Configuration from inspection of site and dam centerline profile.

Site Type	A
Compressibility	Medium
Permeability	Farious
Foundation Type	3b

Position of clay lenses will probably act more like in previous foundation (3a) mhw

Using Table 6, Selection of Basic Design Required

Site Type	A
Foundation Type	3b
Materials Group	VII
Homogeneous Section Design Type	2

There seems to be a discrepancy here. If we use our CL-2 soils classification it groups as Group VI and uses the same type dam design as Group VII, although Group VII soils are recommended for this type foundation. I believe the foundation material will group between an SC and a CL so we can assume the foundation condition 2b existed. Check this feature and its implication with Capleman.

Use design type 2.

Type is OK but prefer type 1 in this case.

Dimensions of the Dam Section:

From TMSHS #4 it was concluded that the dam slopes could be as follows:

Upstream	3:1
Downstream	2:1

The depth of water upstream is found as follows:

Elevation Top Dam	98.0	(3.0 spillway; spillway crest 95.0)
Elevation Reservoir floor	79.0	
Difference	19.0	

Width of top of dam:

$$W = 3 + 2/\sqrt{H} \quad H = 19'$$

$$= 3 + 2/(4.36)$$

$$W = 3 + 2/\sqrt{19}$$

$$= 3 + 8.72$$

$$= 11.72$$

Use width 12.0 ft.

General Design and Drafting:

With these dimensions determined the dam design was laid out on the proposed centerline of the dam on the enlarged topographic of the dam site and on the topographic map of the dam and reservoir site. The proposed location of both the outlet conduit and emergency spillway were also located on both these maps. Dam profiles, dam cross section at the outlet conduit and the spillway profile were developed from the topographic maps by interpolation. The maps, designs and charts needed on the final plans are submitted on separate sheets with the original copy of these notes.

HYDROLOGY

Runoff Computations:

Watershed Area 1750 Ac. = 2.73 sq. miles.

Using Dwg 7-0-13424 Idaho Supplement to Regional Design Handbook

Zone 15. -

(2% Frequency)

$$q = 23 \text{ c.f.s. / sq. mi.}$$

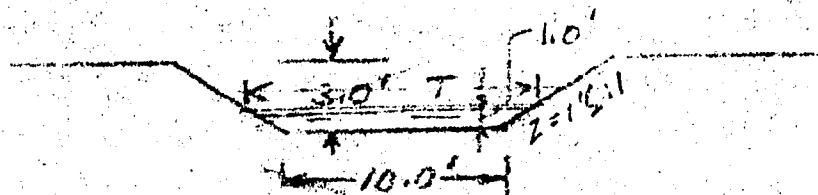
$$Q = 23 \times 2.73 = 63 \text{ c.f.s.}$$

Check on Spillway Discharge at Control Section:

$$\frac{A^3}{T} = \frac{Q^2}{S}$$

Critical flow formula Kings

Use Section



$$A = 11.5 \text{ Sq. ft.} \quad T = 13.0 \text{ ft.}$$

$$\frac{11.5^3}{13} = \frac{Q^2}{32.2} \quad Q^2 = \frac{(11.5)^3 \times 32.2}{13}$$

$$Q = \sqrt{\frac{1525}{13} \times 32.2}$$

OK

$$= \sqrt{3780}$$

$$= 61.5 \text{ c.f.s.}$$

This checks close enough. A spillway with $b = 10.0'$, $d = 3.0'$, $s = 1\frac{1}{2}:1$

$A = 43.5 \text{ sq. ft.}$ meets ASC requirements also.

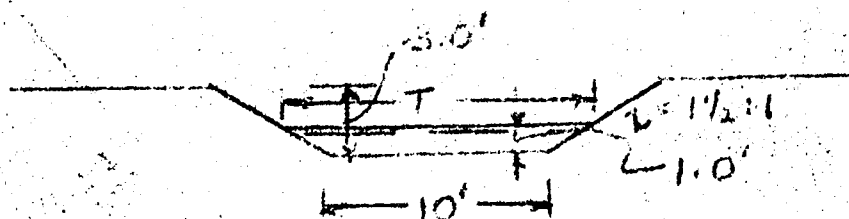
HYDRAULIC DESIGN

Spillway Chart:

The emergency spillway will be constructed to the lines and grades shown on the plans. A concrete control section will be constructed at Station 0 + 00 of the spillway center line. Downstream the channel will be protected by seeding the bottom and slopes of the spillway with a grass mixture recommended by the Work Unit Conservationist. Riprap to protect the area where the spillway outlets into the present channel will be constructed as required.

Critical Section - Spillway Crest

$$\frac{A^3}{T} = \frac{Q^2}{g}$$



$$A = 11.5 \text{ sq. ft.} \quad T = 13.0 \text{ ft.}$$

$$Q^2 = \frac{gA^3}{T} = \frac{32.2 (11.5)^3}{13}$$

$$Q = \sqrt{3780}$$

$$= 61.5 \text{ c.f.s.}$$

The depth used here is critical depth (d_c).

$$H_c \text{ for rectangular section} = \frac{3}{2} d_c = 1.5^1$$

$D_c = \frac{2}{3} H_c$ for rectangular section only. (See Kings - third edition, page 382-383 for trapezoidal section.)

High velocities below control section will require lined channel.

Approach Channel to Crest:

Station 0 + 00 is spillway crest.

Design for $V = 4.0$ ft/sec. at Sta. 0 + 00

Design for $V = 3.0$ ft/sec. at Sta. 0 + 20

Set adverse grade = 1%

The computations for this design are made on the chart on the following page.

Outlet Conduit:

- Data:
1. Trash rack at entrance,
 2. Sharp edge cast steel gate frame.
 3. Conduit 104" in length, 14" O.D.S.W.3. pipe.
 4. Slope of pipe, .0096 ft/ft.

$$Q = AV$$

$$A = 1.04 \text{ ft.}^2$$

$$\text{and } V = \frac{1.486}{n} r^{2/3} \approx 1/2 \quad (\text{Manning})$$

$$\text{Then } Q = 1.04 \times \frac{1.486}{n} r^{2/3} \approx 1/2 \quad n = 0.013 \text{ (Kings pg. 183)}$$

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SOIL CONSERVATION SERVICE
WASH. D.C.

... ..

$$S = \text{Slope invert} = -1\% = -0.01 \text{ ft/ft.}$$

2

Assured was 563

R-945

Pipe Dia. = 14"

$$A = 1.04$$

$$V = \frac{Q}{A}$$

$$L = 104'$$

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Q c.f.s. V	OUTLET Elev. W.S. ft.	hf= Ls L(Q) ² (51.7)	hv V ² /2g	he = V ² /2g	TOTAL LOSSES Cols 3+4+5	W.S. Elev Upstream
1	75.0	.039	.016	.008	.063	
4	75.0	0.574	0.23	0.12	0.924	75.9
8	75.0	2.18	0.92	0.46	3.86	78.86
12	75.0	5.60	2.05	1.02	8.67	83.67
16	75.0	10.00	3.68	1.84	15.52	90.52
20	75.0	15.50	5.74	2.87	24.11	99.11

R-945

$$0.435$$

$$r = \frac{d}{L} = \frac{13.79}{12} \div 4 = 0.287$$

$$Q = 1.04 \times 1.486 \times (0.287)^{2/3} s^{1/2} = 51.7 s^{1/2}$$

s will be the slope of the hydraulic gradient. The total head available for overcoming friction loss in the pipe will be the difference in elevation of the w.s. at the outlet of the conduit and the w.s. elevation in the reservoir MINUS the head losses due to entrance velocity, entrance shape, trash rack loss and any pipe bend losses. A table is set up with headings as follows:

1. Q = outlet discharge in c.f.c.
2. Elev. outlet w. s. (No backwater assumed)
3. hf = friction loss = length conduit times friction slope. From formula on preceding page.

$$Q = 51.7 s^{1/2} \quad \text{or} \quad s = \frac{(Q)^2}{(51.7)^2}$$

$$\text{Then } hf = Ls = L \frac{(Q)^2}{51.7^2}$$

$$4. \quad V_e = \text{Velocity head } \frac{v^2}{2g}$$

$$5. \quad h_e = \text{entrance head} = \frac{v^2}{2g} K \quad K = 0.50 \quad (\text{Sharp edge entrance})$$

$$6. \quad \text{Total losses} = \text{Cols } 3 + 4 + 5 \quad (\text{loss through trash rack considered negligible.})$$

$$7. \quad \text{W. S. Elev. upstream}$$

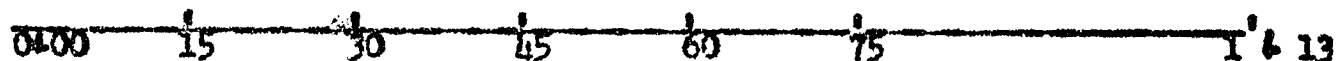
STRUCTURAL DESIGN

Outlet Conduit:

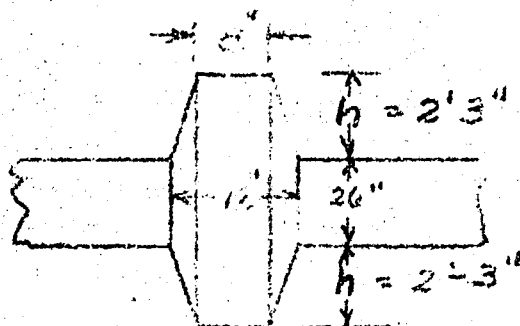
Use standard plan sheets of Eng. 246 Series. However, Mr. Tingey has expressed the desire to have a 14" outlet conduit with vertical gate and walkway and a trickle tube to take care of continuous flow.

Cutoff Collars:

Locate on upstream 2/3 of conduit.



5 Collars spaced at 15' intervals on upper 2/3 conduit.



Try $h = 2.5'$, two vertical sides only considered effective in increasing path of percolation.

Length increased = 2.5 ft. x 2 sides x 5 collars = 25'.

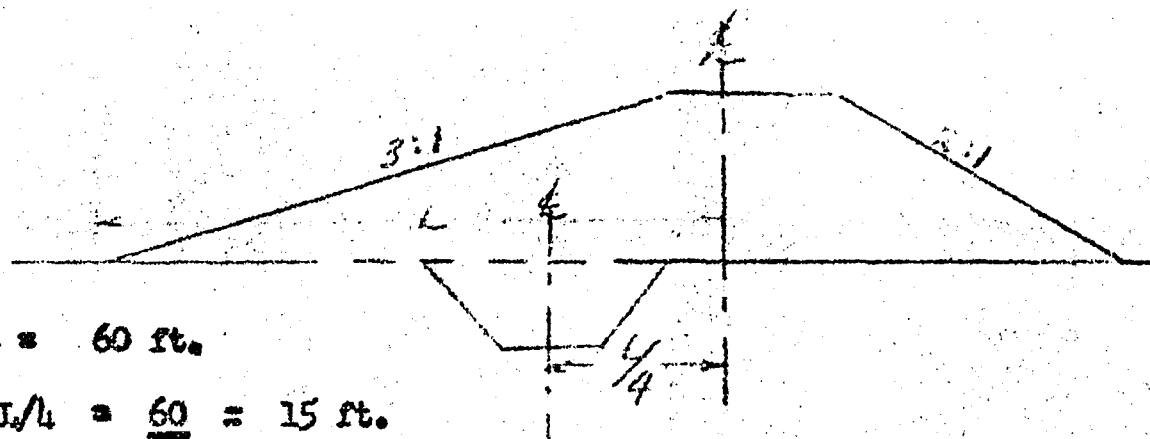
113 feet x 20% = 22.6 ft.

Use 2.25 ft. height of collar then 2.25 ft x 2 sides x 5 collars = 22.5 G.E.

CUTOFF TRENCH

Location:

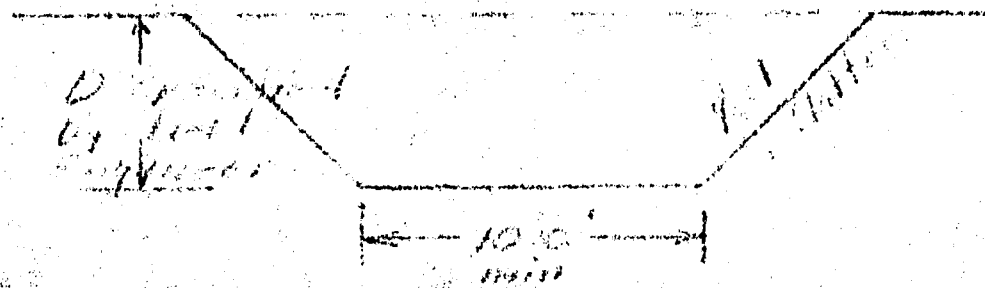
Upstream from dam axis a distance of $L/4$ the distance from axis to upstream toe.



Where $L = 60$ ft.

The $L/4 = \frac{60}{4} = 15$ ft.

Shape:



RIPRAP

Riprap will be placed on the upstream face of the dam as shown on the plans. This material will consist of crusher plant rejections placed on a bed of pit run gravel. Borrow area located about 4 miles northwest of the dam site.

Some hand placed riprap will need to be placed at the outlet of the emergency spillway. This will be done by the farmer as required.

DOWNSTREAM SLOPE TOE DRAIN

This toe drain will be constructed as shown on the plans. See the specifications for material requirements and methods of placing.

PLANS

The detail drawings are on separate sheets and will be transmitted with the original copy of this report to the State Conservation Engineer for checking and forwarding to Cartographic for final drafting.

**SPECIFICATIONS
MAURICE TINGEY DAM
FRANKLIN SCD, IDAHO**

A. DEFINITION OF TERMS AND RELATIONSHIPS

The following terms are used in these specifications. Their meanings shall be as follows:

1. "Owner". Maurice W. Tingey, owner of the dam.

The owner is responsible for all expenditures for construction. All items of work to be paid by the owner must have the owner's approval.

It is understood that the owner will execute the plans and specifications to the best of his ability and that any changes made as construction progresses will be made with the advice and concurrence of the SCD Engineer and approval of the State Reclamation Engineer.

2. "District". The Franklin Soil Conservation District represented by their Board of Directors or their authorized representative.

Technical assistance of the Soil Conservation Service is provided through the District.

3. "SCS Engineer". The District Engineer of the U. S. Soil Conservation Service representing the Franklin Soil Conservation District or his authorized representative.

The SCS Engineer, acting as a technical adviser for the owner, has compiled these plans and specifications. He will provide surveys, tests, and technical direction of the work so that the job may be constructed as planned. He cannot authorize changes without the approval of the owner.

4. "Reclamation Engineer". The State Reclamation Engineer of Idaho or his authorized representative.

Under the provisions of the water laws of Idaho the Reclamation Engineer is charged with the examination and approval of sites, plans, specifications and inspection of construction to insure safety of such work with reference to possible damage to life and property.

These plans and specifications must have the written approval of the Reclamation Engineer prior to initiation of construction. It is further required that the work performed in the construction

of the dam and materials that are used in construction that become a part of the completed structure shall at all times be subject to the approval of the Reclamation Engineer and that no material changes in plans or specifications made necessary during construction by unforeseen contingencies or otherwise shall be made without prior approval of the Reclamation Engineer.

5. "Plans". The official plans numbered 7-5d-14984 3 sheets approved by the SCS and Reclamation Engineer are part of these specifications.
6. "Specifications". The directions, provisions and requirements contained herein pertain to the method and manner of performance of the work and to the quality of material to be used.

B. SCOPE OF PLANS AND SPECIFICATION

1. Intent of Plans and Specifications. These plans and specifications are prepared for the purpose of controlling construction to the extent that quality structures will be built.
2. Deviation from Plans and Specifications. No deviation from the plans or specifications will be permitted without the consent of the SCS Engineer. The SCS Engineer will obtain other approvals when necessary.
3. Changes in Plans and Specifications. Where conditions arise that indicate a need for a change of the plans or specifications, these changes shall be initiated by the SCS Engineer in charge and submitted by him to the Reclamation Engineer for approval. All changes shall be authorized in writing.
4. Coordination of Plans and Specifications. In case of conflict between the requirements and provisions set forth in the plans and specifications the provision of the specification takes precedence over that of the plan.
5. Right to Discontinue Cooperation. If the owner fails to follow plans and specifications as agreed to, then the District may withdraw all technical assistance upon notification of the Reclamation Engineer of such withdrawal.

C. CONSTRUCTION SPECIFICATIONS

1.0 Excavation.

- 1.1 Borrow Pits. All materials required for construction of the embankment that are not available from required excavation, shall be taken from borrow pits. The proposed

locations and extent of borrow pits are shown on the plan. The sites of the borrow pits shall be carefully stripped of all surface soil, vegetation, roots, brush, sod, and other objectionable material. This material shall not be used in any part of the fill.

1.2 Embankment Foundation. The dam foundation shall be stripped or excavated to a sufficient depth to remove all surface soil, vegetation, roots, brush, sod, and other material not suitable for foundations. Before fill is placed, the foundation and abutment areas shall have their surfaces in a loose and scored condition by disking to depths of 3 - 4 inches to provide a good bond between the foundation and the embankment. Loose earth shall not be left on the foundation area to a depth in excess of 6" above approved, undisturbed foundation material. This loose bonding surface shall contain adequate moisture for proper compaction when fill material is placed on it. No foundations or abutments shall be covered by material of the dam until the SCS Engineer has inspected and approved the same.

1.3 Cutoff Trench. An artificial barrier or cutoff to prevent leakage through or under the base of the dam shall be constructed. This barrier will consist of a cutoff trench backfilled with selected impervious material, properly compacted. The trench shall extend the full length of the dam. It shall be excavated to impervious material or to such depths that will prevent excessive seepage as directed by the engineer. The cutoff trench shall be located as shown on the plans and shall have a minimum bottom width of 10 feet. The side slopes of the trench shall not be steeper than 1 horizontal to 1 vertical. It shall be dewatered before any fill material is placed. No fill material shall be placed in the cutoff trench until the SCS Engineer has inspected and approved the trench. Final location and extent of the cutoff shall be determined by the SCS Engineer at such a time as the excavation can be made.

1.4 Spillway. An emergency spillway channel approximately 400 feet long shall be excavated through the abutment as shown on the plans. This channel shall be excavated to the line and grade for finished section for an open grassed type spillway but shall not include the actual establishment of vegetative cover. Material excavated from the spillway will be used in the main embankment if suitable. Any material excavated that is not suitable will be wasted. Machine excavation shall be accepted as satisfactory for the excavation of the spillway except for the spillway control structures. Overexcavations, however, will be filled and tamped to provide a degree of compaction equal to adjacent undisturbed earth. Excavation for the spillway control structure shall be as described in item 1.5.

- 1.5 Structures. Excavation for the outlet conduit and other concrete structures shall be confined to neat lines and grades so that the bottom and the sides are suitable forms for the concrete encasement, cutoff collars, or other appurtenances. No concrete shall be poured in the outlet conduit trench until the SCS Engineer has inspected and approved it.

2.0 Outlet Conduit and Other Structures.

This outlet conduit shall consist of a 14 inch 12 gauge welded steel pipe, inner liner encased in reinforced concrete, a control gate, and inlet and outlet structures. The minimum thickness of concrete encasement shall be six inches. The concrete cutoff collars shall be considered an integral part of the conduit encasement. All parts of the structure and other structures such as the spillway crest control shall be constructed as shown on the plans and in accordance with the following specifications.

- 2.1 Concrete. Concrete shall be mixed and placed as specified below.

- 2.1.1 Cement. To be Portland Cement of a standard commercial brand, free of lumps and partially set masses. In no case shall less than 5-1/2 sacks of cement be used in each cubic yard of concrete.
- 2.1.2 Water. Water shall be free of acid, alkali, oils, and organic matter. Simple rule - water should be suitable for drinking.
- 2.1.3 Aggregate. This may be of non-commercial sources, provided it has adequately graded, clean, hard, strong, durable particles, and is sufficiently free of deleterious substances when it meets the following limitations.
- (1) When separated on the number four standard screen, the weight passing the sieve shall not be less than thirty percent nor more than fifty percent of the total. No rock shall exceed 1-1/2" diameter.
 - (2) Clay lumps do not exceed 1.5 percent.
 - (3) All other deleterious substances do not exceed five percent.
- 2.1.4 Mixing. Mixing shall be continued for at least 1-1/2 minutes after all materials, including water, are in mixer. Each batch shall be completely discharged before the mixer is recharged. No more than 6-1/2 gallons of water per sack of cement shall be used.

This includes surface water in the aggregates. Excessive overmixing requiring the addition of water to preserve the required concrete consistency shall not be permitted.

Truck mixing will be allowed provided that the use of this method does not violate any applicable provisions of these specifications for concrete.

- 2.1.5 Measurement of Materials. Equipment used for measuring quantities shall be calibrated so the correct quantity of material measured is known.
- 2.1.6 Forms. Forms shall conform to the shape, lines, and dimensions of the members as called for on the plans, and shall be substantial and sufficiently tight to prevent leakage of mortar. They shall be properly braced and tied together so as to maintain position and shape.
- 2.1.7 Placing Concrete. Forms shall be wetted or oiled and thoroughly cleaned of debris and ice. Depositing continuously at one point and letting it flow to distant points shall not be allowed since the water and fines segregate from the rest of the mass. The concrete shall be spaded next to the forms to prevent honeycombing. Laitance and increased water in the upper portions of the concrete shall be prevented. Excess water shall be worked to a low point without causing flow, and be removed.
- 2.1.8 Reinforcing Steel. Reinforcing steel shall be furnished, fabricated and placed as shown on the plans. All reinforcing bars shall be deformed bars of structural grade steel. Reinforcing steel, before being placed in the forms, shall be thoroughly cleaned of loose mill and rust scale, oil, dirt or other coatings of any character that would destroy or reduce the bond.
- 2.1.9 Construction Joints. Joints not indicated on the plans shall be so made and located as to least impair the strength of the structure. Where a joint is to be made, the surface of the concrete shall be thoroughly cleaned, and all laitance removed. In addition to the foregoing, vertical joints shall be thoroughly wetted, but not saturated, and flushed with a coat of neat cement grout immediately before the placing of new concrete.

- 2.1.10 Curing. All exposed concrete shall be moist cured for a period of 14 days or cured by a membrane seal which shall be maintained intact for a period of thirty days. When membrane seals are used they shall be applied within 30 minutes after concrete placing.

Wet curing for concrete which is to be covered by the earth embankment may be reduced from 14 days to 7 days. All concrete shall be protected from the direct rays of the sun for not less than 3 days. White pigmented compounds are recommended for use as a membrane seal and will give satisfactory protection from the direct rays of the sun. All concrete shall be protected against freezing for at least the period required for moist curing. When concrete is placed in freezing weather it shall be heated to maintain a temperature of not less than 70° for 72 hours or 50° for 5 days and the protection continued above freezing for the required curing period. Calcium chloride may be added or high-early-strength concretes to reduce the curing and time of protection. This time shall be not less than 1/3 the time required for standard cement.

3.0 Emergency Spillway.

This item covers construction of vegetated spillway as detailed in drawing _____ with concrete spillway crest control.

- 3.1 Excavation. Excavation shall be as described previously in items 1.4 and 1.5 to the lines and grades as indicated on the drawings.
- 3.2 Concrete. Concrete work shall be done in accordance with provisions for concrete in items 2.0.
- 3.3 Finishing. Excavation shall be to neat lines and grades as previously described in item 1.4. The seed bed preparation, seeding and establishing of stand shall be done by the owner in accordance with SCS-ACP specifications for grassed waterways.

4.0 Structural Backfill.

No backfill shall be placed against the structure for 7 days after the concrete has been poured.

Fill material shall be placed against the structures by hand in maximum layers of 6 inches and thoroughly compacted by hand operated tampers.

No compaction equipment such as the sheepsfoot roller will be used for compacting within 18 inches of a structure.

Moisture and density shall be the same as required for the earth embankment.

Selected impervious material shall be used for all structural backfill.

5.0 Earth Embankment.

- 5.1 Foundation Preparation. The foundation for the earth fill shall be so prepared by leveling and rolling that the surface materials of the foundation will be as compact and well bonded with the first layer of the fill as herein specified for the subsequent layers of the earth fill.
- 5.2 Quality of Materials. The earth fill portion of the dam, including the fill around the outlet conduit and in the cutoff trenches shall consist of soil materials, approved by the SCS Engineer, from borrow areas shown on the plan and from excavations required for other parts of the work. No brush, roots, sod, or other perishable or compressible debris shall be placed in the embankment. No stones having maximum dimensions of more than five inches shall be placed in the embankment; any such stones hauled onto the embankment shall be removed before rolling.
- 5.3 Placement of Materials. Fill materials will be placed in the embankment in the following manner:
 - 5.3.1 The approved mixture of earth materials shall be placed in the embankment in continuous, approximately level, layers having a thickness of not more than 8 inches before compaction.
 - 5.3.2 An acceptable working range of moisture content shall be established by the engineer for each type of fill material prior to the start of construction, and no material shall be placed in the embankment which does not have a moisture content within its specified working range. (See: 5.4 Moisture Control, and 5.6, for Data for Estimating.)
 - 5.3.3 The distribution of materials shall be such that the embankment will be free from lenses, pockets, streaks or layers differing appreciably in texture from the surrounding material.

- 5.3.4 The fill materials shall be compacted by means of a tamping roller of such size and weight that the materials will be compacted to the densities specified herein or by the engineer as construction progresses. (See: 5.5 Compaction Control, and 5.6, Data for Estimating.)
- 5.3.5 The first course of fill material shall be spread over the foundation in a thin layer such that the combined thickness of this layer and the scarified surface of the foundation shall not exceed 8 inches before a compaction.
- 5.3.6 If the rolled surface of any lift becomes too smooth for proper bond, it shall be adequately scarified before placement of the next lift.
- 5.4 Moisture Control. The abutments, the surface of the fill, and the materials being placed shall be maintained at the proper moisture content during the placement operations. The moisture content shall be controlled in the following manner:
- 5.4.1 If the foundation and/or abutments have insufficient moisture content, water shall be added by sprinkling.
- 5.4.2 The application of water to the fill materials shall be accomplished by irrigation of the borrow areas.
- 5.4.3 Any material or surface which has dried to below the required moisture content shall be uniformly moistened, by sprinkling, before the material is compacted or before a dried surface is covered by additional fill material.
- 5.4.4 Material having a moisture content higher than that specified by the engineer shall be removed from the fill or allowed to dry to an acceptable condition before being compacted.
- 5.4.5 Adjustment of moisture content will be made on the basis of determinations of moisture content made by the engineer or inspector as construction progresses.
- 5.5 Compaction Control. Compaction of the fill materials shall be accomplished and controlled in the following manner:
- 5.5.1 The tamping roller shall be of the sheepfoot type and shall have a minimum ballasted weight of 1250 pounds per foot of width. The projected face area of each tamping knob and the number and spacing of the knobs shall be such that the total weight of the ballasted roller, when

distributed over one row of knobs, will result in a minimum contact pressure of 250 pounds per square inch.

5.5.2 Tamping rollers will be operated at a speed of approximately 3 miles per hour.

5.5.3 Each lift of fill material shall be compacted by passing the tamping roller over the entire surface of the lift the number of times required to obtain the desired density.

5.5.4 The rate of placement of fill material will be adjusted as required on the basis of determinations of fill density, in place, made by the engineer or inspector as construction progresses.

5.6 Data for Determining Compaction. Moisture and compaction data will be furnished upon completion of laboratory analysis (Curves to be furnished.)

5.6.1 Estimating Compaction and Rate of Placement. Compaction required shall not exceed 15 trips per 6" compacted layer with a roller weighing 1800 lbs. per linear foot or 20 trips with a roller weighing 1250 lbs. per linear foot.

Rate of placement corresponding to the above rollers is 50 and 35 cubic yds per hour for each 4 foot roller unit respectively.

6.0 Rock or Gravel Drain

6.1 Material. Rock or gravel for the downstream toe drain shall be pit run material free from an excess of fines. All material used shall be inspected at the borrow pit by the SCS Engineer in charge and his approval given before it is hauled to the site. The transition filter material shall be of selected pit run material having coarse and fine aggregate well graded through all sizes.

6.2 Placing. The material shall be placed in uniform layers not to exceed 8 inches in thickness and compacted by routing the hauling equipment over the fill.

7.0 Dumped Riprap.

The upstream face of the dam shall be protected by riprap.

The riprap shall have a minimum thickness of 9 inches and be placed on a 6 inch gravel blanket or the blanket may be eliminated by using 12 inches of rock riprap containing 30 to 35% gravel or spalls.

8.0 Metal Work.

- 8.1 Intake Gate. The intake gate shall be an Armco Slide Gate Model 20-100 or the equivalent, placed according to the manufacturer's recommendation and the plans.
- 8.2 Other Metal Work. Other metal work shall be procured or fabricated and installed according to the plans.

9.0 Structural Timber

- 9.1 Material. All lumber used shall be C grade or better, local or imported, rough finished fir, tamarack or pine. All pieces shall be free of knot holes, split ends, decay pits or scab corners. Firm knots in place shall not be larger than $1/4$ the cross section of the piece in which they are found.
- 9.2 Treating. All lumber shall be treated to ASTM standards with an acceptable cold soak preservative.
- 9.3 Erection. All timber shall be erected to the lines and grades and in the manner specified in the plans. All bolt holes shall be $1/16$ " larger in diameter than the bolt they accommodate. All ends shall be neat trimmed.

10.0 Clean Up.

- 10.1 General Appearance. The site shall be left with a neat workmanlike appearance.
- 10.2 Finishing. Steep banks, borrow areas and other rough spots shall be smoothed to facilitate revegetation. Stripping and waste material, if not otherwise used, shall be spread.

EARTH WORK and STRUCTURES

for

MAURICE W. TINGEY DAM
Weston, Idaho

ITEM NO.	ITEM OF WORK OR MATERIAL	UNIT	QUANTITY NO. UNITS	UNIT COST	COST
1.0	EXCAVATION				
	1.1 Borrow Stripping	Cu Yd			
	1.1 Borrow Common	Cu Yd			
	1.2 Foundation Stripping	Cu Yd			
	1.3 Cutoff Trench Common	Cu Yd			
	1.4 Spillway Common	Cu Yd.			
	1.5 Structure	Cu Yd			
2.0	PLACING CONCRETE				
	2.1 Concrete	Cu. Yd			
	2.1.1 Reinf. Steel	Lbs.			
4.0	BACKFILL				
	Structures	Cu Yd			
5.0	EMBANKMENT				
	Placing and compacting	Cu yd			
6.0	ROCK DRAIN				
	Excavating, Placing and Compacting	Cu Yd			
7.0	DUMPED RIPRAP IN PLACE	Cu Yd			
8.0	METAL WORK				
	Gate-Frame, etc in place each				
	14" Steel pipe in place	Li Ft.			
9.0	TRIMBER-STRUCTURAL				
	In Footwalk and Trestle in place	NBM			
10.0	CLEANUP	Project			

R-945

(Estimate)
(~~SECRET~~)

COST DISTRIBUTION SHEET

Job Name	Maurice W. Tingey Don Norton, Idaho	Planning Engineer	G. R. Fiala	Date	2/23/55
		Approved by	H. J. Woodward	Date	2/25/55

Construction Engineer

Job Location	Work Unit	Date Completed
Franklin SCD	Preston, Idaho	

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT COST	Cost Division			TOTAL COST
					Group	Soil Conservation District		
						SCS in source	Other than SCS in source	
1.0	EXCAVATION 1.1 Borrow Area - Stripping 1.1 Borrow-Common 1.2 Foundation Stripping 1.3 Cutoff Trench Common 1.4 Spillway Common 1.5 Structure	C. Y. C.Y. C.Y. C.Y. C.Y. C.Y.	2000 13100 550 450 1450 30	0.15 0.15 0.15 0.25 0.15 2.00	300.00 1965.00 82.50 90.00 217.50 60.00			
2.0	PLACING CONCRETE 2.1 Concrete 2.1.1 R. Steel	C.Y. lbs.	23 1600	60.00 0.15	1380.00 240.00			
4.0	BACKFILL STRUCTURE	C.Y.	50	1.00	50.00			
5.0	EMBANKMENT - DAM IN PLACE - COMPACTED	C.Y.	11910	0.25	2977.50			

R7-131
9/1/52

(Estimate)
(Final)

UNITED STATES DEPARTMENT OF AGRICULTURE
Soil Conservation Service
Pacific Region

Sheet No. 2
of 3

COST DISTRIBUTION SHEET

Job Name Maurice W. Tingey Dam
Weston, Idaho

Planning Engineer G. R. Flala Date 2/23/55

Approved by H. J. Woodward Date 2/25/55

Construction Engineer _____

Job Location Franklin SCD Work Unit Preston, Idaho Date Completed _____

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT COST	Cost Division			TOTAL COST
					Group	Soil Conservation District	Other than SCS in source	
6.0	ROCK DRAIN IN PLACE	C.Y.	240	2.00	180.00			
7.0	DUMPED RIPRAP	C.Y.	620	2.00	1240.00			
8.0	METALWORK GATE FRAME IN PLACE	each	1	90.00	90.00			
	14" SMS PIPE	L. Ft.	116	7.75	319.00			
9.0	TIMBER - STRUCTURAL IN FOOTWALK AND TRESTLE - IN PLACE	MBM	1.200	150.00	180.00			
10.0	PROJECT CLEANUP	Job	1	In other items	9671.50			9671.50

R. 9-45

(Estimate)
(Final)

COST DISTRIBUTION SHEET

Job Name	<u>Maurice W. Tingey Dam</u> <u>Weston, Idaho</u>
Planning Engineer	<u>O. R. Fiala</u>
Date	<u>2/23/55</u>
Approved by	<u>H. J. Woodward</u>
Date	<u>2/25/55</u>

Construction Engineer

Job Location	Work Unit	Date Completed
Franklin, SGN	Preston, Idaho	

ITEM NO.	ITEM	UNIT	QUANTITY	UNIT COST	Cost Division			TOTAL COST
					Group	Soil Conservation District		
						SCS in source	Other than SCS in source	
	SCS TECHNICAL TIME:							
	GS-5 Con. Aid	M. Hr.	20	1.80		36.00		
	GS-7 Engineer	H. Hr.	200	2.30		460.00		
	GS-9 Engineer	H. Hr.	80	2.80		224.00		
	GS-12 Engineer	M. Hr.	20	3.40		68.00		
						788.00		788.00
								10,459.50

Q-10

WORKING AGREEMENT

The Franklin Soil Conservation District and the land owner named below enter into the following agreement for the purpose of constructing an earthfill dam and accompanying works.

Maurice W. Tingey

It is agreed that:

1. The Franklin Soil Conservation District, insofar as available technical assistance will permit, will make necessary surveys and develop a plan for the construction of this project, and supervise construction and make final check of completed project to ascertain whether the work has been carried out according to specifications set forth in the plan.
2. The land owner agrees to work to complete the necessary construction, and maintain the project in good operating condition.

It is further agreed that the land owner will:

1. Provide or otherwise arrange for all rights-of-way, and easements necessary for the realignment of the stream channel and for the construction and maintenance of the project.
2. Carry out the work according to specifications indicated in the plan.
3. Assume full liability for this project, including damage claims or other action that may be taken against the project over interference with water rights, erosion damage, or from other causes.

It is mutually agreed that:

1. The attached plans, (or plans developed at a later date), may be changed any time by the consent of District and land owner.
2. Neither the District nor the land owner shall be liable for any damage to the others property resulting from accomplishing the provisions of the plans unless damages are caused by negligence or willful misconduct.
3. This agreement will take effect on the date of the last signature and will remain in effect until terminated by

P. 945

mutual consent or until sixty days after any party has given notice to terminate.

Signed _____ Date _____

FRANKLIN SOIL CONSERVATION DISTRICT

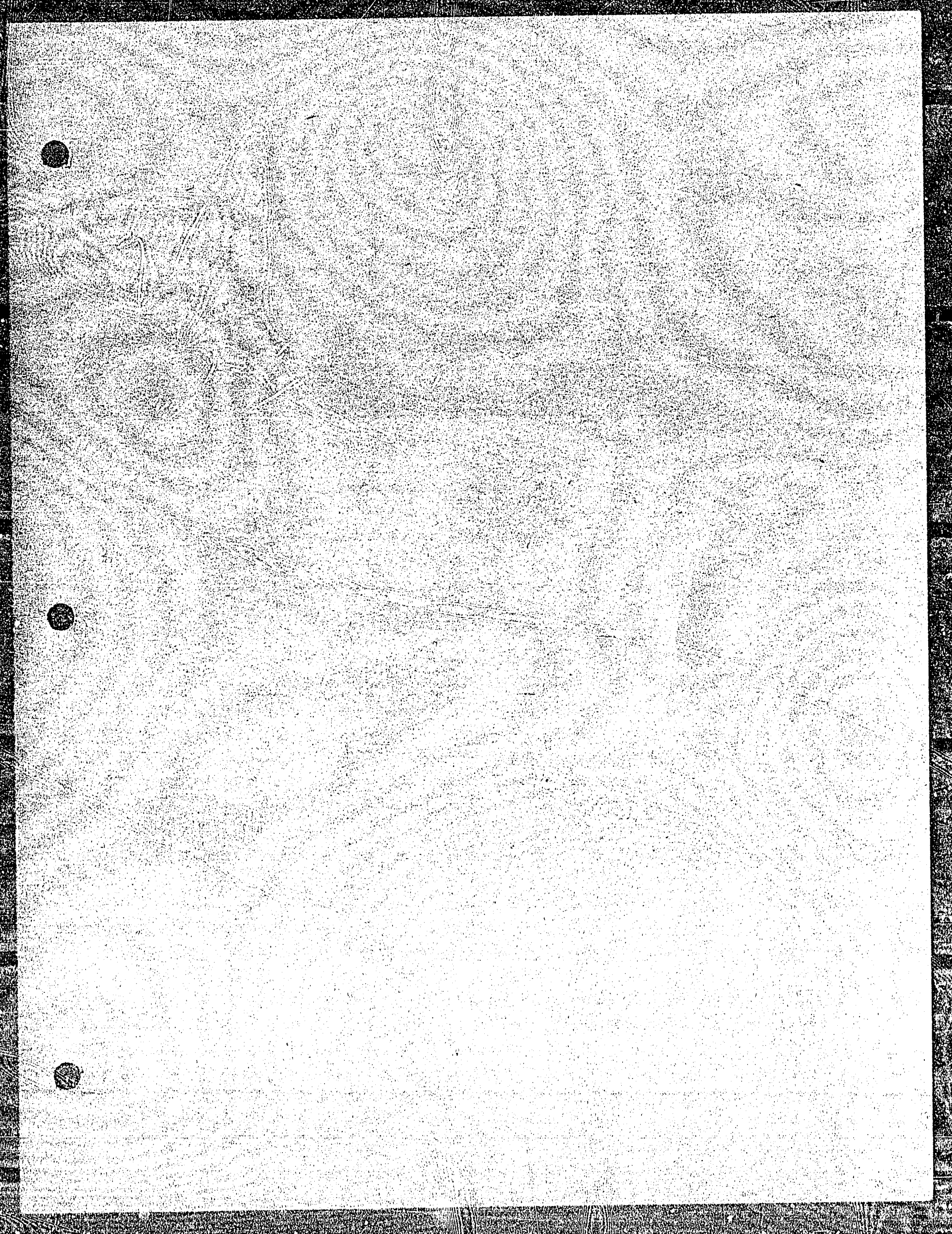
By _____ Supervisor _____

Date _____

CERTIFICATE OF ACCEPTANCE

I certify that I have received a copy of the plans and specifications, prepared for me by the Soil Conservation Service, for the construction of an earthfill dam and outlet works on my farm.

Signed _____ Date _____



NAME OF APPLICANT

W. Maurice Tingey

Form No. 0

R. 38E

(Boise Meridian)

T16S

NASH HOLLOW

N

21
11/12

16
12/7

11/12
14/13

12/7
13/18

Proposed
Reservoir

Dam-Site
(outlet immediately
below dam)

----- Lands to be irrigated
NOTE - Reservoir area not to scale,
dash water line with dam
only 10 acres.

Plan Map No. R-945
As Approved
MARK R. KULP
State Reclamation Engineer

SCALE: 2 Inches Equal 1 Mile. Draw Plan in Ink.

Drawn - 24 Aug 54 - 685

R-945

(Form No. 2)

Address all communications to

W. Maurice Tinney

P. O. Weston, Idaho

APPLICATION FOR PERMIT

To Construct a Reservoir and Appropriate and Store
The Public Waters of the State of Idaho

Application No. R. 33095

Permit No. R.

1. Name of Applicant: W. Maurice Tinney

Postoffice address: Weston County Franklin State Idaho

I. If applicant is a corporation, give:

(a) Date and place of incorporation:

(b) Amount of Capital Stock: \$

(c) Amount paid in: \$

(d) Names and addresses of directors:

II. The financial resources of the corporation are:

(a) Cash on hand: \$

(b) Treasury Stock: \$

(c) Bonds to be issued: \$

(d) Other resources:

2. Quantity of water to be stored: 78 acre feet per annum

3. Source of water supply is (Creek) (River) (Spring), a tributary
of Nash Hollow River.

4. The outlet of the proposed reservoir is located N 34° 30' E 1700 feet, distant from the S.E.
(bearing)
corner of Section 12, Township 16 S, Range 38 E, B. M., and is in the N.E. ¼ of S.E. ¼
of Section 12, Township 16 S, Range 38 E, B. M. County of Franklin

5. Fill out either (a) or (b).

(a) The reservoir is located in the channel of a tributary of Nash Hollow (Creek) (River)

(b) The reservoir is to be filled through a feeder canal, the point of diversion for which is located
(bearing)
feet, distant from the corner of Section, Township, Range,

B. M., and is in the ¼ of ¼ of Section, Township, Range, B. M.
width at bottom feet, width at top feet, depth of water feet; average grade
per mile feet; Capacity cubic feet per second.

6. (a) The area of the high water line of the reservoir is 12.6 acres.

(b) The reservoir capacity is 77.67 acre feet.

7 Height of reservoir dam 23 feet, length at top 415 feet, length at bottom 140 feet, size of
outlet 12" feet by feet. The dam is to be constructed of materials as follows: Clay loam,
clay, sandy clays and sands.

(If height of dam will exceed 10 feet or capacity of reservoir will exceed 100 acre feet, plans must be approved
by Department of Reclamation, before beginning construction.)

8. (a) Will water stored in reservoir be diverted to canal or aqueduct, thence to land to be irrigated without com-
mingling with natural flow of Nash Hollow Tributary Creek) (River)? Yes

R-945

(Give Irrigable acreage in each 40-acre subdivision.)

Total Number of Acres to be Irrigated.....260

Notary Public.

My commission expires 12/31/2004

2-945

Approval of State Reclamation Engineer

The number of this permit is R.....

Recorded in book R....., page..... Approved

This is to certify that I have examined the within application for a permit to construct a reservoir and store and appropriate the public waters of the State of Idaho, and hereby approve the same, subject to the following limitation and conditions:

Bond in the sum of \$....., to be filed on or before.

Work to begin on or before.....and to continue diligently and uninterruptedly to completion, unless temporarily interrupted by circumstances over which the permit holder has no control.

One-fifth of the work above specified to be completed on or before

The whole of said work to be completed on or before.....

Beneficial use of water stored in accordance herewith, to be made on or before

Witness my hand this day of, 19.....

.....
State Reclamation Engineer.

IN TESTIMONY WHEREOF, We, ..., Governor of the State of Idaho, and, Secretary of State of the State of Idaho, have caused this instrument to be executed in the name of the State of Idaho and caused the Great Seal of the State of Idaho to be hereunto affixed, this day of, 19.....

Countersigned:

STATE OF IDAHO

By
Secretary of State.

By
Governor.

No. R.....

STORAGE PERMIT

Date of first receipt at office of State
Reclamation Engineer

9:00 A.M. Aug. 28, 1934

Returned to applicant for correction

Corrected application received

Fees, \$ 5-00 Paid.

FILING FEES FOR STORAGE PERMITS:

For the first 250 acre-feet.....\$5.00

For each additional 250 acre-feet or

fraction thereof\$0.25

FOR NORMAL FLOW PERMITS:

For the first Second foot.....\$5.00

For each additional second foot or

fraction thereof\$0.25

August 30, 1954

Mr. W. Maurice Tingey
Weston
Idaho

Dear Mr. Tingey:

We have your application for permit to construct a reservoir and store 78 acre feet of water from Nash Hollow.

In order to give this application proper consideration we will ask that you submit duplicate plans on your proposed dam and reservoir.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:br

2-945

UNITED STATES
DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

P. O. Box 2709
Boise, Idaho

RECEIVED
APR 23 1955
Department of Reclamation

April 22, 1955

Mr. Mark R. Kulp
State Reclamation Engineer
State House
Boise, Idaho

Dear Mr. Kulp:

Transmitted herewith are the plans, specifications, geology
report, soils report, hydrology, hydraulics, design and other
pertinent data for the M. W. Tingey Dam, Franklin SCD, Idaho.

Very truly yours,

Meador H. Wilkins

Meador H. Wilkins
State Conservation Engineer

Enclosures

R. 945

November 10, 1954

RE: Permit No. R-945

Mr. W. Maurice Tingey
Weston
Idaho

Dear Mr. Tingey:

We enclose Permit No. R-945 and direct your attention to the limitations and conditions as given on the fourth page under approval of the State Reclamation Engineer.

We also enclose departmental receipt No. 27009 for the \$5.00 filing fee.

It is our understanding that the Soil Conservation Service will furnish plans and specifications which must be approved by this department before construction is commenced.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

A:hl
Enc.

R-945

State of Idaho
DEPARTMENT OF RECLAMATION
BOISE

September 1, 1956

INSTRUCTIONS
PROOF OF COMPLETION OF WORKS

Mr. W. Maurice Tingey
Weston
Idaho

Boise, Idaho

Dear Sir:-

Under the terms of your permit No. R-945 you are required to complete your diversion works on or before November 1, 1956. I enclose herewith blank affidavit to be filled out, sworn to by you before a Notary Public or a Justice of the Peace, and returned to this office on or before the above date, or within ten days thereafter, for the purpose of making proof of completion under the permit. Upon receipt of this affidavit in this office, provided the same satisfactorily shows the completion of the works substantially in accordance with the terms of the permit, together with a fee of \$5.00, a Certificate of Completion will be issued to you.

The certificate to be issued under this proof will not give a perpetual right to the use of water for which application was made, as it only confirms the completion of works of a capacity to divert and convey to the place of intended use a certain amount of water. The law requires that another proof be submitted when the water has been fully applied to a beneficial use, at which time license is issued for the amount of water actually in use. Information in regard to this last proof will be furnished on request.

Yours truly,

MARK R. KULP

State Reclamation Engineer

R-945

RECEIVED
SEP 21 1956

Department of Reclamation

Permit No. R- 945

Proof of Completion of Works

RECEIVED
SEP 27 1956

Department of Reclamation

DEPOSITION OF HOLDER

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. H. Maurice Lingey - Weston Idaho
Farmer

Ques. 2. If acting on behalf of a corporation, state its name, principal place of business, your position with reference to same, and your authority for appearing in its behalf.

Ans. _____

Ques. 3. State number and date of permit, acre feet of water you claim for storage, and source of same. Don't know. Tributary of Nash HollowAns. No R. 945 - 77.6 acre ft. water
source of supply - winter run off. deep waters when not
used by owners below dam.Ques. 4. Under terms of permit construction was required to be completed by Nov. 4, 1954
19_____Ques. 5. Construction was actually completed on the date of Sept 30 1953Ques. 6. Does the construction fully comply with the specifications? yesQues. 7. Of what material was the dam built? clay loam - sandy clay & sand

Ques. 8. State whether or not the water has been turned into your reservoir, and if so, when and to what extent.

Ans. yes - has been full now for 1 yr.Ques. 9. The capacity of the reservoir is 78 acre feet.Ques. 10. The area of the high water line of the reservoir is 10 acres.Ques. 11. The height of the dam above bottom of reservoir is 25 feet, above low water is 23 feet.Ques. 12. The dimensions of the spillway are 10 ft bottom 18 ft top and the bottom of the spillway is 6 ft feet below the top of the dam.Ques. 13. Dimensions of the reservoir outlet are 10 ft bottom 18 ft top

Ques. 14. Describe the gate and control unit.

Ans. 12" slab pipe in concrete thru bottom of dam
and emergency out let around North end with concrete
bottom to stop washing concrete & clayQues. 15. The reservoir outlet is made of concrete & clayQues. 16. Is the reservoir filled through a feeder canal? no

Ques. 17. If so, where is the point of diversion for same?

Ans. NE 1/4 SE 1/4 Section, 12 Twp. 16 S Range 38 E

R-945

Ques. 18. Does the feeder canal comply with the specifications in the permit?

Ques. 19. If not, explain

Ques. 20. Cost of constructing feeder canal? \$..... Cost of reservoir? \$ 5010.00

Ques. 21. State whether or not the works from reservoir outlet to place of use are fully completed, and whether or not they comply with the specifications in permit. If not, explain.

Ans. Have not as yet installed permanent pipe

Ques. 22. Water has (has not) been delivered to place of intended use? yes using sprinklers

Ques. 23. Give description of dam, state dimensions, and give slope of face both upstream and downstream. Also method and material for protecting against wave action.

2. Ans. Dam 140 ft wide at Bottom - 12 ft at top
have Gravel below dam & Rocks Gravel on face of Dam

Ques. 24. State the purpose for which the water is to be used and give the place of use, and if for irrigation, state the number of acres, and give the legal description of same.

Ans. Irrigation - ~~200~~ acres 160 acres in
section 12 Township 16S Range 5E County of Franklin

(Sign here)

A. Maurice Jirgey

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Preston County of Franklin State of Idaho, on this 7 day of September A.D. 1956

[Signature]

Notary Public

My commission expires Dec 10 1956

September 18, 1956

RE: Permit No. R-945

Mr. W. Maurice Tingey
Weston
Idaho

Dear Mr. Tingey:

We are returning, herewith, your deposition for proof of completion of works for additional information.

Under Question 3, according to your Permit your source of supply is from an un-named stream. Please add that to the answer in Question 3.

Under answer to Question 24, please state the number of acres to be irrigated under each legal subdivision, by showing Section, Township and Range.

Please furnish this additional information and return to this department.

We wish to acknowledge receipt of your check for \$5.00 in payment for completion of works proof which we will hold until receipt of the deposition.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Roy W. Thompson
Office Manager

T:hll
Enc.

R-945

October 2, 1956

RE: Permit No. R-945

Mr. W. Maurice Tingey
Weston
Idaho

Dear Mr. Tingey:

We enclose, herewith, Certificate of Completion of Works issued on your Permit No. R-945 for the storage of 77.67 acre feet of water per annum of the waters of an un-named stream, a tributary of Nash Hollow, with point of outlet of said reservoir located in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ Section 12, Township 16 South, Range 38 East, B.M., for irrigation of land in the S $\frac{1}{2}$ NE $\frac{1}{4}$ and SE $\frac{1}{4}$ Section 12, same Township and Range and Priority of August 28, 1954.

We also enclose departmental receipt No. 28189 for the \$5.00 completion of works fee.

Very truly yours,

MARK R. KULP
State Reclamation Engineer
By

Chief Clerk

R:hll
Enc.

R-945

Wooten Idaho
5-4-61

RECEIVED

MAY 8 1961

Department of Reclamation

Bureau of Reclamation
Boise, Idaho.

Dear Sirs - My reservoir
is now complete and I would
like it checked or whatever it
is that has to be done for the
proving of my water permit.

Mo. R 945 expires Nov the 4th
of this year.

Mo R 1074 not until aug
11 of 66.

Yours Truly

J. H. Maurice Turgey

R-945 c/n. 77.67 AF. } Wooten Idaho
Pri. 8-28-54 B/u 11-4-61 } unclaimed etc. in

R 1074

Filed: 6-9-60 Due: 8-11-65 } R-945
B/u 8-11-60 }

Send necessary
forms for
B/H proof &
instructions
on R-945

R-1074 not
due yet

R.945

S T A T E O F I D A H O

DEPARTMENT OF RECLAMATION

RE: Permit No. R-945Date May 9, 1961

W. Maurice Tingey
Weston, Idaho

Dear Sir:

The date for proof of application of water to beneficial use, as set out under the terms of Permit No. R-945 is due not later than Nov. 4, 1961. If by this date you are not prepared to make this proof, you may make it at a later date, however, your priority will be advanced the same length of time for which the proof is late.

Before this proof can be made, the statutory requirement is that a Notice of your intention of proof be published once a week for four consecutive weeks in a newspaper within the county.

We enclose Form 10, in duplicate, which is to be filled in and returned to this department at least forty (40) days before the above mentioned date or before the time you intend to make proof. This form, in duplicate, is to include the time of day, the date (allowing for four weeks publication), the name of the town, the address of the Notary Public before whom you will appear to make the depositions of proof (this may be at any place that is convenient for you and your two witnesses), the quantity of water, for what purpose it is used, the point or points of diversion and the location of use or lands which are irrigated--by 40-acre legal land description. Descriptions should be taken from your Permit, including any amendments thereto, as recorded in this department. If changes have been made and no amendments are on record, we advise that you request a form for this purpose before your Notice is published.

Also enclosed is Form 11, which is the authorization for us to have the Notice published in the designated county newspaper, at your expense. This is to be returned with Forms 10.

At the time we send the notice to the newspaper we will send to you the forms for the depositions of holder and two disinterested witnesses. It is important that the depositions be executed at the time, on the date set and at the place named, before the Notary Public, as advertised in the publication notice.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer

Enc.

Forms enclosed are the ones needed for beneficial use on Permit No. 945. The letter is actually the instructions, as per your request of May 4, 1961

R-945

S T A T E O F I D A H O

DEPARTMENT OF RECLAMATION

BOISE

June 16, 1961

Re: Permit No. R-945

DEPOSITIONS ARE OF NO VALUE

UNLESS AFFIDAVIT OF PUBLICATION

IS ATTACHED

Mr. W. Maurice Tingey,
Weston, Idaho.

Dear Mr. Tingey:

This acknowledges the Notice of Proof of ~~completion of works and~~ Application of Water to Beneficial Use under Permit No. R-945. The proofs are to be made at 10:30 o'clock A.M., on the 25th day of July, 1961, ~~1960~~ before W. C. Maughan, Preston, Idaho, Notary Public.

As of this date we have mailed the Notice to the Preston Citizen with instructions to publish it once a week for four consecutive weeks prior to the date set for final proof and then mail the affidavit of publication and statement of costs to you.

It is important that the enclosed depositions be executed by you and two disinterested witnesses who are familiar with the terms of the permit and the work done thereunder, at the place, on the date, and at the time and before the Notary, as advertised. It is very important and necessary that each question be answered in detail.

In returning the depositions to this office, be sure that all copies have been signed, the Notary's seal has been placed on each and that all depositions, (holder and two witnesses) are being returned. Also be sure to enclose the Affidavit of Publication.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer

By:

(Mrs.) Edna P. ~~Kearney~~ ^{Rule}
Chief Clerk

Encl.
EPR:puk
cc: Notary

R-945

Dear Sirs.

I hope I have these
papers completed right.
If it is not out of order
I could complete the papers
for permit R 1074 - It
is completed and the water
is in the process of being
used.

Sincerely
H. Maurice Giger
Heaton Idaho

RECEIVED

JUN 16 1961

Department of Reclamation

R-945

Form No. 11
2M - 10/60

RECEIVED
JUN 13 1961

Department of Reclamation

NOTICE TO ACCOMPANY THIS LETTER MUST BE MADE IN DUPLICATE

(Date) June 5, 1961

(P. O.) Weston, Idaho

TO THE STATE RECLAMATION ENGINEER:

Boise, Idaho

Dear Sir:

You are hereby authorized to have the attached notice published at my expense in the

Preston Citizen of Preston, Idaho published in

the county in which the works are situated.

W. Maurice Tingey
W. Maurice Tingey

(In case of canals or other works designed to divert and carry more than 50 cubic feet of water per second, the following certificate must be signed by a well known and competent engineer.)

I hereby certify that the facts set forth in the attached notice are true.

Engineer.

R-945

RECEIVED

JUN 18 1961

Notice for Publication
NOTICE OF PROOF OF APPLICATION OF WATER
TO BENEFICIAL USE

Department of Reclamation

Notice is hereby given that at 10:30 A. M. on the 5 day of
. June, 1961, ~~1959~~, at Preston, County of
. Franklin, State of Idaho, before
W. C. Maughan, proof will be submitted of the application to beneficial use of
. 77.67 ~~cubic feet~~ ^{avg feet} per second of the waters of unnamed stream of Nash Hollow
. in accordance with the terms and conditions of Permit No. R-945
heretofore issued by the Department of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit are:
. W. Maurice Tingey, Weston, Idaho

The use to which said water has been applied is Irrigation purposes

The amount applied to beneficial use is 77.67 A.F. per annum

The place where said water is used, give full and accurate legal description:
.
. NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 12, Township 16 South, Range 38 East of the Boise Meridian
.

The name of the canal or ditch or other works by which said water is conducted to such
place of use is Tingey pipe line and ditches located on farm

The right to take water from such works is based upon Permit No. R-945

The source of supply from which such water is diverted is unnamed stream of Nash Hollow

Point of Diversion (legal description) NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec. 12, Tp. 16 S. R. 38 E.

The date of priority which said user is prepared to establish is Aug. 28, 1954

Geo. H. Carter

State Reclamation Engineer

R-945

NOTICE OF PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

Notice is hereby given that at 10:30 A.M. on the 5th day of June, 1961, at Preston, County of Franklin, State of Idaho, before W. C. Maughan, proof will be submitted of the application to beneficial use of 77.67 acre feet of the waters of unnamed stream a tributary of Nash Hollow in accordance with the terms and conditions of Permit No. R-945 heretofore issued by the Department of Reclamation of the State of Idaho.

The name and postoffice address of the person or corporation holding said permit is W. Maurice Tingey, Weston, Idaho.

The use to which said water has been applied is Irrigation purposes.

The amount applied to beneficial use is 77.67 A.F. per annum.

The place where said water is used, giving full and accurate legal description: NE $\frac{1}{4}$ SE $\frac{1}{4}$, Section 12, Township 16 South, Range 38 East of the Boise Meridian.

The name of the canal or ditch or other works by which said water is conducted to such place of use is Tingey pipe line and ditches located on farm.

The right to take water from such works is based upon Permit No. R-945.

The source of supply from which such water is diverted is unnamed stream a tributary of Nash Hollow.

Point of Diversion (legal description) NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec. 12, Tp. 16 S. R. 38 EBM.

The date of priority which said user is prepared to establish is Aug. 28, 1954.

George N. Carter
State Reclamation Engineer

First Pub. June 21, 1961

Last Pub. July 12, 1961

R-945

STATE OF IDAHO
DEPARTMENT OF RECLAMATION

Boise, Idaho

Re: Permit No. R-945
W. Maurice Tingey

Date: June 16, 1961

Preston Citizen,
Preston, Idaho.

Gentlemen:

Enclosed you will find notice for publication, once a week for four consecutive weeks prior to July 25, 1961 the date set for proof; the expense of the publication is to be paid by the applicant

W. Maurice Tingey of Weston, Idaho
to whom you should furnish proof of publication on or prior to the date set for proof.

Please acknowledge receipt of this notice and furnish this office with a copy or tear sheet of the first publication.**

Very truly yours,


GEO. N. CARTER
State Reclamation Engineer

** If the first copy is not received in this office for checking purposes and errors appear in subsequent issues, it is possible that re-publication of corrected copy will be at your own expense

Encl.

R-945

FRANKLIN
COUNTY'S
ONLY NEWSPAPER
ESTABLISHED IN 1892

THE PRESTON CITIZEN

DON E. SMITH
Publisher

PRESTON, IDAHO

SERVING A
TERRITORY
OF OVER
10,000 PEOPLE

RECEIVED

JUN 26 1961

Department of Reclamation

June 22, 1961

State of Idaho
Department of Reclamation
Geo. N. Carter, Engineer
Boise, Idaho

Dear Sir,

Inclosed please find a tear sheet of the
first publication for W. Maurice Tingey, West-
on, Idaho, as requested in your letter of June
16, 1961.

Sincerely,

Don E. Smith
By *Constance Peterson*



AFFIDAVIT OF PUBLICATION

STATE OF IDAHO,

ss.

County of Franklin

Department of Reclamation

Don E. Smith

being duly sworn,

deposes and says:

That he is the Publisher of
THE PRESTON CITIZEN, a weekly newspaper published at Preston,
in the County of Franklin and State of Idaho; that said paper has
been and is in general circulation in the county aforesaid, and in
the vicinity of Preston; that the advertisement, a copy of which is
attached hereto, was published in said newspaper once a week for
four consecutive weeks in the regular
and entire issue of said paper during the period and time of publica-
tion, and was published in the newspaper proper and not a supple-
ment; that said paper has been established and regularly published
for more than seventy-eight consecutive weeks prior to the date of
first publication of said advertisement.

Such notice was published in the issue beginning with

June 21, 1961, and ending
with the issue of July 12, 1961.

Don E. Smith

Fees, \$ 23.22

Subscribed and sworn to before me this 25 day
of July, 1961.

Don E. Smith
Notary Public, Residing at Preston, Idaho

My Commission Expires 7-22-62, 1962

Legal Notices

NOTICE OF PROOF OF APPLICATION OF WATER TO BENEFICIAL USE

Notice is hereby given that at
10:30 A.M. on the 5th day of
June, 1961, at Preston, County
of Franklin, State of Idaho, be-
fore W. C. Maughan, proof will
be submitted of the application to
beneficial use of 77.67 acre feet
of the waters of unnamed stream
a tributary of Nash Hollow in
accordance with the terms and
conditions of Permit No. R-945
heretofore issued by the Depart-
ment of Reclamation of the State
of Idaho.

The name and postoffice ad-
dress of the person or corporation
holding said permit is W. Maur-
ice Tingey, Weston, Idaho.

The use to which said water
has been applied is Irrigation
purposes.

The amount applied to benefi-
cial use is 77.67 A.F. per annum.

The place where said water is
used, giving full and accurate
legal description: NE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec-
tion 12, Township 16 South,
Range 38 East of the Boise Meri-
dian.

The name of the canal or ditch
or other works by which said
water is conducted to such place
of use is Tingey pipe line and
ditches located on farm.

The right to take water from
such works is based upon Permit
No. R-945.

The source of supply from
which such water is diverted is
unnamed stream a tributary of
Nash Hollow.

Point of Diversion (legal de-
scription) NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Sec. 12,
Tp. 16 S. R. 38 EBM.

The date of priority which
said user is prepared to establish
is Aug. 28, 1954.

George N. Carter
State Reclamation Engineer

First Pub. June 21, 1961
Last Pub. July 12, 1961

← error
date not
checked
corrected
July 25, 1961
FS

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

AUG 28 1961

RECEIVED
AUG 28 1961

Department of Reclamation

Permit No. R 945

Proof of Application of Water to Beneficial Use

Deposition of Holder

Ques. 1. State your name, residence, occupation and postoffice address.

Ans. W. Marrice Tingey Weston, Idaho
Farmer Weston, Idaho

Ques. 2. If acting in behalf of corporation, state its name, principal place of business (if a foreign corporation, give name of postoffice of statutory agent), your position with reference to same, and your authority for appearing in its behalf.

Ans. No

Ques. 3. State number and date of permit, and date of priority you propose to establish under the permit.

Ans. R - 945 August 28, 1954

Ques. 4. State source of water supply and give exact location of point of diversion.

Ans. An un-named stream - a tributary of Nash Hollow. - N 34°30' E 1700 Ft. Distant from the SE corner of Section 12, Township 16 S, Range 38 EBM and is in the NE 1/4 of SE 1/4 of Sec. 12, Township 16 S, Range 38 EBM, County of Franklin

Ques. 5. Describe your works of diversion, and state amount of water they are capable of conveying from point of diversion to place of use, and give name of canal or ditch or other works by which water is conducted to such place of use. If a well, state depth of well, depth and size of casing and depth to water. If pump is used, state discharge of pump and tell how it was measured or determined. If sprinkler irrigation, give number and size of nozzles and operating pressure.

Ans. Use a centrifical pump Berkly No. 4. When sprinkling - pump 600 gal per min. When using water for flooding purposes pump 1600 gal per minute. When sprinkling use a 8" buried steel mainline - When flooding - pump into open ditch.

Ques. 6. State for what purpose water is used and describe place of use. (If for irrigation, name each subdivision in which used, and number of acres in each subdivision that have actually been irrigated with said water.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Water used for irrigation of sugar beets, potatoes, corn, peas, wheat, barley and alfalfa - 260 acres of irrigated land in farm. I have other water from Twin Lakes Canal Company and use this water from Reservoir to keep up what the other won't take care of. This increased water supply has doubled output of farm crops. S 1/2 NE 1/4, SE 1/4, Sec. 12, T. 16 S., R. 38 E, B. M. and W 1/2 NW 1/4, Sec. 18, T. 16 S., R. 39 E. B. M. to be irrigated

R-945

21

Ques. 7. If for other than irrigation purposes; state how applied, amount of horse power generated, etc.

Ans.

Ques. 8. What is the minimum amount of water required for the purpose specified above?

Ans. 1. acres foot per acre of ground

Ques. 9. If you are not the person or representative of the corporation to whom above mentioned permit was originally issued, please state how ownership was acquired by present holder.

Ans.

Ques. 10. State when, how, in what amount and to what extent the water diverted under above mentioned permit has been used.

Ans. Every year during months of May-June- July- August and September water has been used to water crops from start to finish.

Ques. 11. State when, how, in what amount and to what extent waters other than those diverted under the above mentioned permit have been diverted and applied to beneficial use upon the lands herein described. Give full particulars regarding such other appropriations and rights claimed thereunder.

Ans. This farm has a water right of 146 shares of Twin Lakes Canal Company.

..... This water is used to irrigate any crops grown on this land.

(Sign) *H. Maurice Long*

I hereby certify that the foregoing testimony was read to the above subscribed before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me, at my office in *Preston*, County of *Franklin*,

State of Idaho, on this *25* day of *July*, A. D. 19*61*.

My commission expires *30 aug 61*

SEP 12 1961

STATE OF IDAHO Department of Reclamation
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

RECEIVED
AUG 23 1961

PERMIT NO. R 945

Department of Reclamation

Proof of Application of Water to Beneficial Use

Deposition of Witness

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. Clyde K. Neilsen - Age 53 - Farmer - Weston, Idaho

Ques. 2. Are you acquainted with W. Maurice Tingey, the holder of Permit No. R 945? How long have you known him and where does he reside?

Ans. Yes - since 1919 - lives in Weston, Idaho on farm he owns.

Ques. 3. Have you read or heard read said Permit No. R 945, and are you familiar with its provisions and conditions?

Ans. Yes

Ques. 4. State source of water supply, place of diversion, and place of use.

N34 30' E 1700 feet Distant from the SE corner of Section 12, township 16 S, Range 38 EBM, and is in the NE $\frac{1}{4}$ of SE $\frac{1}{4}$ of section 12, Township 16 S, range 38 EBM. County of Franklin.

of reservoir - 100 acres Also from North side of Reservoir
then portable line to ground North of Reservoir. 100 acres

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. When sprinkling 1 $\frac{1}{2}$ sec. feet, - when flooding 4 sec. feet.

Ques. 6. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Water is used for irrigation. There are 260 acres of irrigated land in Farm and water from reservoir is used to irrigate any of it anytime. The water from Twin Lakes Canal ditch is not enough. All of this land is cultivated and water from storage has doubled water supply for farm.

SE $\frac{1}{4}$, Sec. 12, T. 16 S., R. 38 E.B.M. and S $\frac{1}{2}$ NE $\frac{1}{4}$, Sec. 18, T. 16S., R. 39 E.B.M. to be irrigated.

R-945

SEP 12 1961

STATE OF IDAHO Department of Reclamation
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

RECEIVED
AUG 28 1961

PERMIT NO. R 945

Department of Reclamation

Proof of Application of Water to Beneficial Use

Deposition of Witness

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. Clyde K. Neilsen - Age 53 - Farmer - Weston, Idaho

Ques. 2. Are you acquainted with W. Maurice Tingey, the holder of Permit No. R 945? How long have you known him and where does he reside?

Ans. Yes - since 1919 - lives in Weston, Idaho on farm he owns.

Ques. 3. Have you read or heard read said Permit No. R 945, and are you familiar with its provisions and conditions?

Ans. Yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

Ans. Unnamed stream - tributary of Nash Hollow. Water is pumped from south side of Reservoir thru buried pipe line to ground south of Reservoir - 160 ac. Also from North side of Reservoir thru portable line to ground North of Reservoir. 100 ac.

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. When sprinkling $1\frac{1}{2}$ sec. feet, - when flooding 4 sec. feet.

Ques. 6. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Water is used for irrigation. There are 260 acres of irrigated land in Farm and water from reservoir is used to irrigate any of it anytime. The water from Twin Lakes Canal ditch is not enough. All of this land is cultivated and water from storage has doubled water supply for farm.

S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 12, T. 16 S., R. 38 E.B.M. and S $\frac{1}{2}$ NE $\frac{1}{4}$, Sec. 18, T. 16 S., R. 39 E.B.M. to be irrigated.

R-945

Ques. 7. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. Irrigation only

Ques. 8. (If for irrigation) state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation.

Ans. Land runs from sandy loam to clay loam. We plan on 1 acre ft. of water to 1 acre of ground in this section.

Ques. 9. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. No

Ques. 10. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. I have lived close by and every year the water has all been used to water row crops, grain and alfalfa.

(Signed) Olyde T. Nielsen

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Preston, County of Franklin, State of Idaho, on this 25 day of July, A. D. 1961.

[Signature]

Notary Public.

My commission expires 30 aug 64

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

Department of Reclamation

Department of Reclamation

Department of Reclamation

PERMIT NO. R 945

AUG 28 1961

Proof of Application of Water to Beneficial Use

Deposition of Witness

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. Harvey Dewey age 52 Farmer Weston Idaho

Ques. 2. Are you acquainted with W Maurice Tingey, the holder of Permit No. R 945? How long have you known him and where does he reside?

Ans. I moved to Weston in 1950 and have been well acquainted with Mr Tingey since that time

Ques. 3. Have you read or heard read said Permit No. R 945, and are you familiar with its provisions and conditions?

Ans. yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

N3/4 30' E 1700 feet distant from the SE corner of Section 12, township 16, S. Range 38 EEM and is in the NE1/4 of SE1/4 of Section 12. Township 16 S, range 38 EEM. County of Franklin.

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use, and how much water have you seen being so conveyed?

Ans. When sprinkling-1 1/2 sec. feet - when flooding-4 sec. feet

Ques. 6. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Water is used for irrigation. There are 260 acres of irrigated land in farm and water from reservoir is used to irrigate any of it anytime. The water from Twin Lakes Canal ditch is not enough. All of this land is cultivated and water from storage has doubled water supply for them.

S1/2 NE1/4, SE1/4, Sec 12, T. 16 S, R. 38 E. B. M. and W1/4 NM1/4, Sec. 18, T. 16 S R. 39 E. B. M. to be irrigated

R-945

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

Department of Reclamation

RECEIVED
AUG 28 1961

Department of Reclamation

Department of Reclamation

PERMIT NO. R 945

Proof of Application of Water to Beneficial Use

Deposition of Witness

The deposition of two witnesses, on this form, taken separately, required in each case.

Ques. 1. State your name, age, residence, occupation and postoffice address.

Ans. Harvey Dewey age 52 Farmer Weston Idaho

Ques. 2. Are you acquainted with W Maurice Tingey, the holder of Permit No. R 945? How long have you known him and where does he reside?

Ans. I moved to Weston in 1950 and have been well acquainted with Mr Tingey since that time

Ques. 3. Have you read or heard read said Permit No. R 945, and are you familiar with its provisions and conditions?

Ans. yes

Ques. 4. State source of water supply, place of diversion, and describe works for conveying water from point of diversion to place of use.

Ans. un-named stream tributry - of Nash Hollow

water is pumped from south side of Reservoir thru a buried pipeline to ground south of Reservoir - 1500 ac
also from North side of Reservoir thru a portable line to ground north of Reservoir 100 ac

Ques. 5. How many second feet of water do you estimate said works will safely conduct to place of use and how much water have you seen being so conveyed?

Ans. When sprinkling-1 1/2 sec. feet - when flooding-4 sec. feet

Ques. 6. State for what purpose water is used and at what place. (If for irrigation, give each subdivision in which water has been used and number of acres irrigated in each subdivision.) State whether cultivated or natural meadow land and the nature of all improvements which have been made as a direct result of said use.

Ans. Water is used for irrigation. There are 260 acres of irrigated land in farm and water from reservoir is used to irrigate any of it anytime. The water from Twin Lakes Canal ditch is not enough. All of this land is cultivated and water from storage has doubled water supply for them.

S 1/2 NE 1/4, SE 1/4 Sec 12, T. 16 S, R. 38 E. B. M. and W 1/4 NW 1/4, Sec. 18, T. 16 S R. 39 E. B. M. to be irrigated

R-945

Ques. 7. If for power or other purposes than irrigation, state how water has been applied and to what extent.

Ans. Irrigation only

Ques. 8. (If for irrigation) state character of land that has been reclaimed, and give your estimate of the amount of water required for its profitable cultivation.

Ans. Land runs from sandy loam to clay loam. We plan on 1 acre ft. of water to 1 acre of ground in this section.

Ques. 9. Have you any interest in the works, water or lands above mentioned? If so, in what way and to what extent?

Ans. No

Ques. 10. State when, how, in what amount and to what extent you have witnessed the application to beneficial use of water diverted under said permit.

Ans. I have lived close by and every year the water has all been used to water row crops, grain and alfalfa.

(Signed) Harvey Deeney

I hereby certify that the foregoing testimony was read to the above subscriber before its signing, that I believe him to be the person he represents himself to be, and that said testimony was subscribed and sworn to before me in Preston,
County of Franklin, State of Idaho, on this 25 day of July,
A. D. 1961.

Notary Public

My commission expires 30 aug 64

August 2, 1961

RE: Permit No. R-945

Mr. W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

Returned herewith your proof of application of water to beneficial use for corrections as indicated by "?" marks.

The Publisher's Affidavit is being held in the file folder pending return of corrected proofs.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

H. Petri
Water Rights Clerk

HP:mr
Enc. proofs

R-945

August 28, 1961

RE: Permit No. R-945

Mr. Maurice W. Tingey
Weston, Idaho

Dear Mr. Tingey:

Returned herewith, for the second time, is your proof of application of water to beneficial use of the water with a form to amend the land list under your permit, and Form O.

The land descriptions you furnished omitted the direction in two places so it is not possible to determine what lands you intend to describe. However you do describe lands not included in the permit and not included in your legal notice of proof of beneficial use of the water. Under 8 you claim you need one acre foot per acre of land and you show over 300 acres for 77.67 acre feet of water

Your permit shows the S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 12, T. 16 S., R. 38 E., B.M. and W $\frac{1}{2}$ NW $\frac{1}{4}$, Sec. 13, T. 16 S., R. 38 E., B.M. to be irrigated.

You can change the place of use by completing the enclosed amendment to the land list and show the land to be irrigated on the Form O.

Either correct your place of use on the proof of beneficial use of the water or complete the amendment to the land list with Form O. Return the necessary documents to this office with the \$1.00 recording fee for the amendment, if you wish to amend the place of use of the water.

Very truly yours,

GEO. W. CARTER
State Reclamation Engineer
By

Ralph W. Thomas
Deputy State Reclamation Engineer

RWT:mr
Enc. proof
From O

R-945

September 12, 1961

Re: Permit No. R-945

Mr. Maurice W. Tingey
Weston, Idaho

Dear Mr. Tingey:

We acknowledge receipt of the depositions of holder and two witnesses, also affidavit of publication in the Preston Citizen, all submitted in proof of completion of works and beneficial use on Permit No. R-945.

Before final action is taken in the matter, the law requires that a field examination be made by an engineer from this department.

We cannot tell just when this examination will be made, but our field engineer will try and contact you at the time he makes the examination so that arrangements may be made to show him over the grounds.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer

By:

(Mrs.) Edna P. Rule
Chief Clerk

EPR:

R-945

October 4, 1961

RE: Permit No. R-945

W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

Our field engineer's report on his inspection of the application of water to beneficial use shows the dam and sprinklers are capable of storing and conveying 77.67 acre feet of water for irrigation of 258 acres.

Upon receipt of the statutory fee of \$18.00, based at the rate of \$2.00 for each 40-acre subdivision, we will issue the License and Certificate of Water Right, confirming the right with priority of August 28, 1954 to the use of 77.67 acre feet of surface water with the point of diversion in the NE $\frac{1}{4}$ SE $\frac{1}{4}$ of Section 12 for irrigation of 258 acres in the S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 12; N $\frac{1}{2}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 13, T. 16 S., Range 38 E., B.M.

Since your permit does not include the N $\frac{1}{2}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$ of Sec. 13 it will be necessary to amend the land list on the permit, if you want the extra land included in the license. Complete the enclosed form, submit it with the above mentioned statutory fee, plus an additional fee of \$1.00 for recording the amendment, to this office and the License and Certificate of Water Right will be issued as shown above.

If you do not want the extra land included, the statutory fee will total \$12.00 and the land list will be restricted to the lands shown on the permit which are actually irrigated.

Very truly yours,

GEO. N. CARTER
State Reclamation Engineer
By

(Mrs.) Edna P. Rule
Chief Clerk

EPR:mr
Enc. amendment

R-945

Application for Amendment

LAND LIST

Permit No. R-945

RECEIVED
FEB 12 1962

Department of Reclamation

Comes now W. Maurice Tingey, and represents

to the STATE RECLAMATION ENGINEER of the State of Idaho:

That he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho, No. R-945, and requests that the list of lands to be irrigated, as described in said permit, be changed to read as follows:

S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 12; N $\frac{1}{2}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 13, T. 16 S., R. 38 E., B.M.

, making a total of 258 acres.

That an additional amount of water is not asked for, and that the rights of others will not be adversely affected by such change.

Signed at Heaton this 25 day of Nov., 1961

W. Maurice Tingey

Date of receipt at office of Department of Reclamation February 13, 1962

APPROVAL OF STATE RECLAMATION ENGINEER

Ralph W. Thomas, Deputy

I, ~~XXXXXXXXXXXX~~, State Reclamation Engineer of the State of Idaho, hereby approve

the above and foregoing application for amendment to Permit to Appropriate the Public Waters of the State of Idaho, No. R-945. This approval constitutes a new permit and is issued as an amendment to the original permit, to which it refers, and of which it becomes a part, and said application is approved only insofar as the rights of others will not be adversely affected thereby.

Recorded in Book 4 of
Permits, at page 945
February 13, 1962

Ralph W. Thomas
Deputy
State Reclamation Engineer

R-945

February 13, 1962

Re: Permit No. R-945

W. Maurice Tingey
Weston, Idaho

Dear Mr. Tingey:

Enclosed is the License and Certificate of Water Right and the Amendment to the Land List which have been recorded in this office.

Also enclosed is departmental receipt No. 30942 in the amount of \$19.00 covering fees for the above.

Very truly yours,

GEO. H. CARTER
State Reclamation Engineer

By:

(Mrs.) Edna P. Rule
Chief Clerk

EPR:ew

Enc. license
amendment
receipt

R-945

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

BOISE, IDAHO

REPORT OF ENGINEER

Permit No. R-945This proof is for Beneficial Use

In Water District No. _____

1. Name of applicant W. Maurice Tingey
2. Source of water supply: an un-named stream
3. Location of point of diversion: Is in the NE 1/4 of Section 12
T. 16 S. R. 38 E. County of Franklin
4. Describe works as they exist, giving dimensions and capacities of same:

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

RECORD OF DAMS

Permit No. R-945
File No. _____

Name of Dam: Tingey Dam Stream: Unnamed Streams
 Name of Owner: W. Maurice Tingey Location: NE 1/4 Sec 12, T16S, R. 38E.
 Type: Earth Fill Purpose: Irrigation Constructed: 1955
 Engineer: H. J. Woodward, Eng. SCS. Contractor: Evan Koller

DIMENSIONS OF DAM

Length on Bottom: <u>140'</u> Ft.	Length on Crest: <u>680'</u> Ft.
Height above Stream Bed: <u>29'</u> "	Depth to Bedrock: _____ "
Top Width: <u>18'</u> "	Upstream Slope: <u>3:1</u>
Freeboard: <u>4 1/2'</u> "	Slope Protection: <u>Rock - 2" to 12" size</u>
Downstream Slope: <u>2:1</u>	Watershed Area: <u>Approx. 3 sq. miles</u>
Area of Reservoir at Spillway Level: <u>16</u> Acres.	Capacity of Reservoir: <u>126</u> Acre Feet.

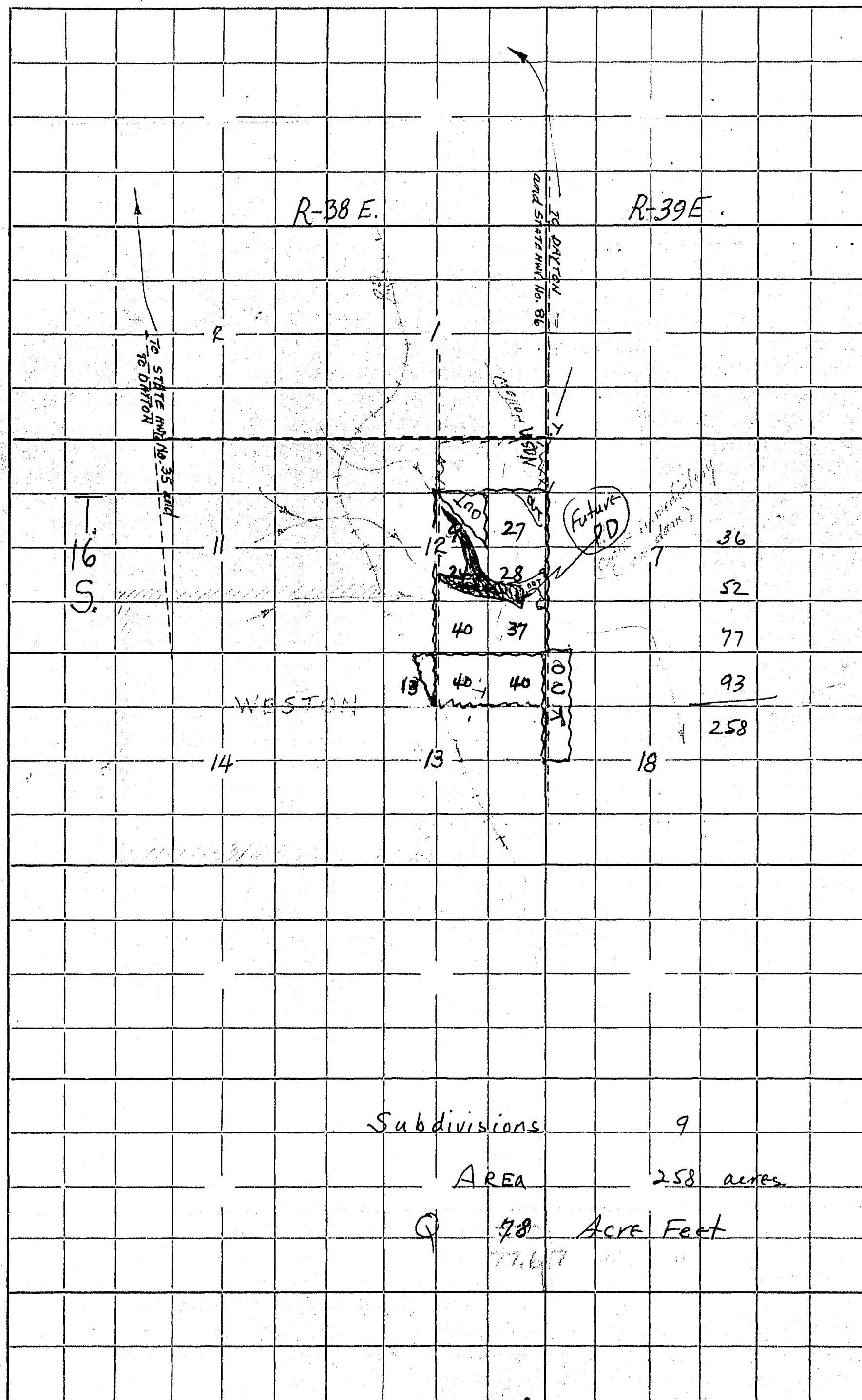
Description of Foundation, including Cut-off Walls and other Precautions as to Safety: Excavated trench and back filled compacted core. Concrete head wall around Inlet and Outlet of Conduit. 5 cutoff Sillars spaced on 15' centers around upper 2/3 of Conduit.

Dimensions and Description of Spillway: Top width 26' bottom width 13' 4 1/2' deep with a 3' wide concrete control in contour of bottom.

9 acres with a content of 60 Acre feet.

Future plans call for a pump in a sump at the outlet of dam into a permanent sprinkler irrigation system.
Water from local Irrigation System is dumped into reservoir when not being used.

Information compiled by:

Date: September 27th, 19 61 Lynn JohnsonR-945This examination was made on the 27th day of September, 19 61.(Signed) Lynn Johnson Examiner.R-945

Subdivisions

9

AREA

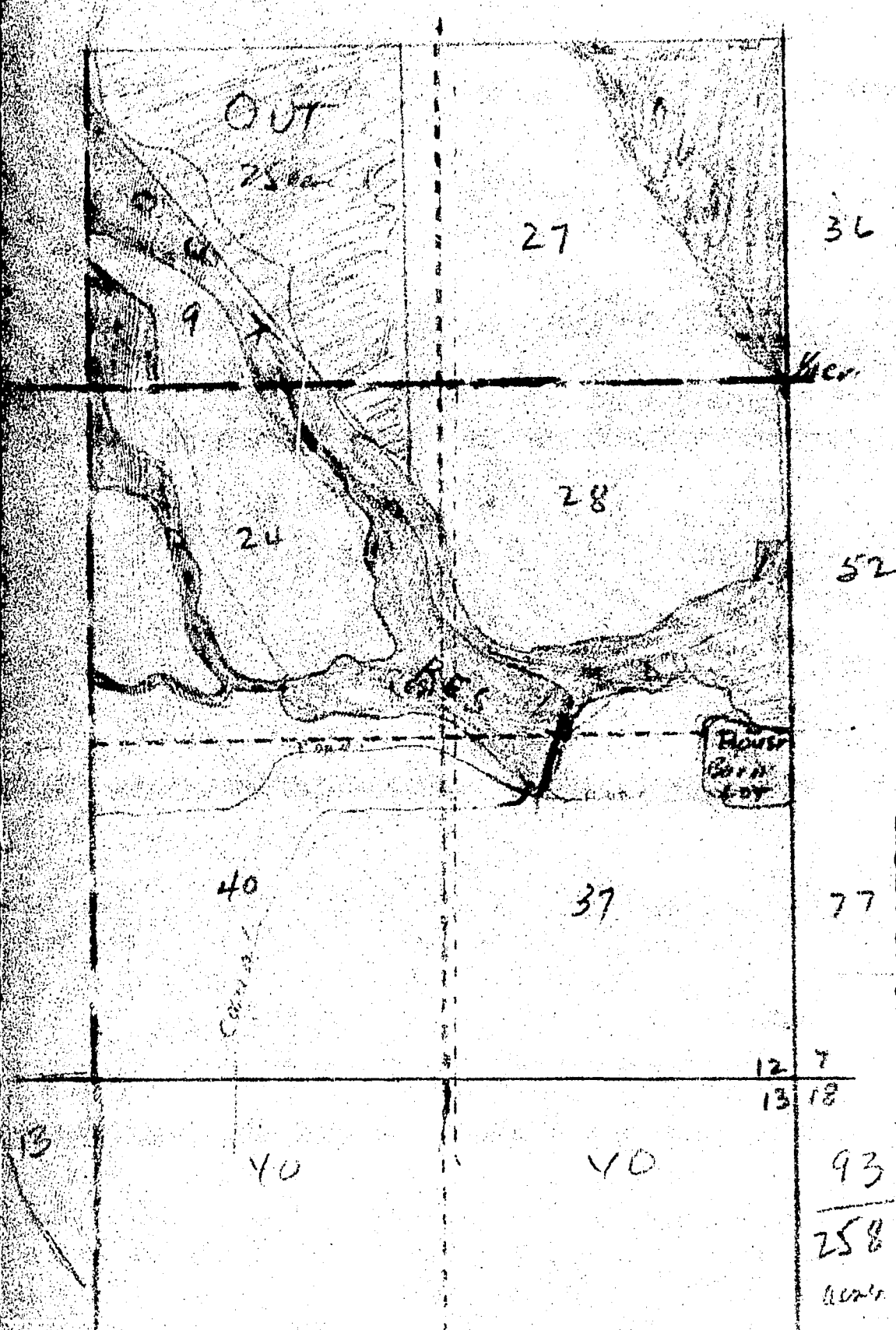
258 acres

Q

78

Acre Feet

77.67



From Aerial Photo in Assessors
office.

2945

STATE OF IDAHO
DEPARTMENT OF RECLAMATION
BOISE, IDAHO

REPORT OF ENGINEER

Permit No. R-945This proof is for Beneficial Use

In Water District No. _____

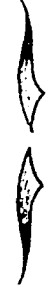
1. Name of applicant W. Maurice Tingey2. Source of water supply: an un-named stream3. Location of point of diversion: Is in the NE 1/4 Sec 12 of Section 12T. 16 S R. 38 E B. M. County of Franklin

4. Describe works as they exist, giving dimensions and capacities of same:

STATE OF IDAHO

DEPARTMENT OF RECLAMATION

RECORD OF DAMS

Permit No. R-945
File No. _____

Name of Dam: Tingey Dam Stream: Unnamed Streams
 Name of Owner: W. Maurice Tingey Location: NE 1/4 Sec 12, T16S, R.38E.
 Type: Earth Fill Purpose: Irrigation Constructed: 1955
 Engineer: H.J. Woodward, Eng. Sec. Franklin Co. Contractor: Evan Koller

DIMENSIONS OF DAM

Length on Bottom: - - - - - 140' Ft.
 Height above Stream Bed: - - - - - 29' "
 Top Width: - - - - - 18' "
 Freeboard: - - - - - 4 1/2' "
 Downstream Slope: - - - - - 2:1
 Area of Reservoir at Spillway Level 16 Acres.

Length on Crest: - - - - - 680' Ft.
 Depth to Bedrock: - - - - - 3:1 "
 Upstream Slope: 3:1
 Slope Protection: Rock - 2" to 12" size approx
 Watershed Area: Approx. 3 sq. miles
 Capacity of Reservoir 126 Acre Feet.

No. Protection on downstream side.

Description of Foundation, including Cut-off Walls and other Precautions as to Safety: Excavated trench and back filled compacted core. Concrete head wall around Inlet and Outlet of Conduit. 5 cutoff collars spaced on 15' centers around upper 2/3 of Conduit.

Dimensions and Description of Spillway: Top width 26' bottom width 13' 4 1/2' deep with a 3' wide concrete control in contour of bottom.

about conduit.

Dimensions and Description of Outlet Works, Gate Hoisting Mechanism, etc.: 14" x 160' smooth steel, 14 ga. pipe. There is 6" concrete with 5-5' concrete collars around steel Conduit pipe. 14" screw type control gate. There is a 16" x 19 1/2" trickle tube just behind head gate to handle small amounts of inflow above full capacity of Reservoir. Conduit is 3.5' above and 20' south of main channel of unnamed stream. so dam side cannot be drained approximately a surface area of 2 acres feet remain in bottom State Fish & Game Comm. stock Reservoir.

Historical: Dam constructed with dirt removed from slacks and south banks of Reservoir and is of red clay. Scraped from sides with a Carryall and compacted with a Sheeps foot roller.

Original height was 22', but was raised to 29' in 1960 (see Permit R-1024)

Present points of diversion is any place around perimeter of Reservoir by use of portable pump and sprinkler systems.

Remarks: The original dam was 22' high and covered approximately 9 acres with a content of 60 acre feet.

Future plans call for a pump in a sump at the outlet of dam into a permanent sprinkler irrigation system.

Water from local irrigation system is dumped into reservoir when not being used.

Date: September 27th, 1961

Information compiled by:

Layton Johnson

R-945

5. Water is used for: irrigation yes
6. State whether or not water has been turned into works of diversion: yes
7. List legal subdivisions of lands to be irrigated. If proof is for beneficial use, give exact number of acres under cultivation in each forty-acre tract. (Describe manner and place of use if other than irrigation):

S&NE 1/4, SE 1/4 Sec. 12; Twp. 16 S., Rge. 38 E., B.M.
W&NW 1/4 S. 18 S., Twp. 16 S., Rge. 39 E., B.M. Making a total of 260 acres.

Amended land list to include above (S&NE) and all other
Sec. 13, T. 16 S., R. 38 E.

(Submit map on attached plat, showing location and details of above description.)

8. What large stream would the water here appropriated finally reach?

Remarks: Mr. Tenney alone

Build a diversion from south fork of Tenney along creek
and Reservoir but is planning to install a siphon to pump
water out of Reservoir and into main line with lateral

This examination was made on the 27th day of September, 1961.
(Signed) Raymond Johnson Examiner.

R. 945

INSTRUCTIONS TO EXAMINERS

1. Always carefully note the location of the point of diversion and accurately plat same.
2. When proof is for beneficial use, carefully check up the number of acres actually irrigated in each forty and accurately plat same.
3. Make a map showing the correct location of streams and ditches, and the irrigated lands, and any adjacent permanent landmarks, such as towns, lakes, large streams and public roads.
4. If any unusual conditions are discovered, make plain statement of them under remarks.
5. Always see the holder, if possible, and go over the whole ground with him and make your report only upon actual existing facts and conditions.
6. Give general characteristics of soils, topography, and crops raised.

RECEIVED

OCT 3 1961

Department of Reclamation

747-3294
10800000
W. Maurice Tingey
Weston, Idaho

Permit No. R-945

Examination for Beneficial Use

County Franklin

Sec. 12 T16 S R.38 E.B.M.

Quantity: 78 acre feet

Source: Un-named stream

P.D.: NE 1/4, Sec. 12, T.16 S. - R. 38 E.B.M.

Use: Irrigation

Filed: Aug. 28, 1954

Due: Nov. 4, 1961

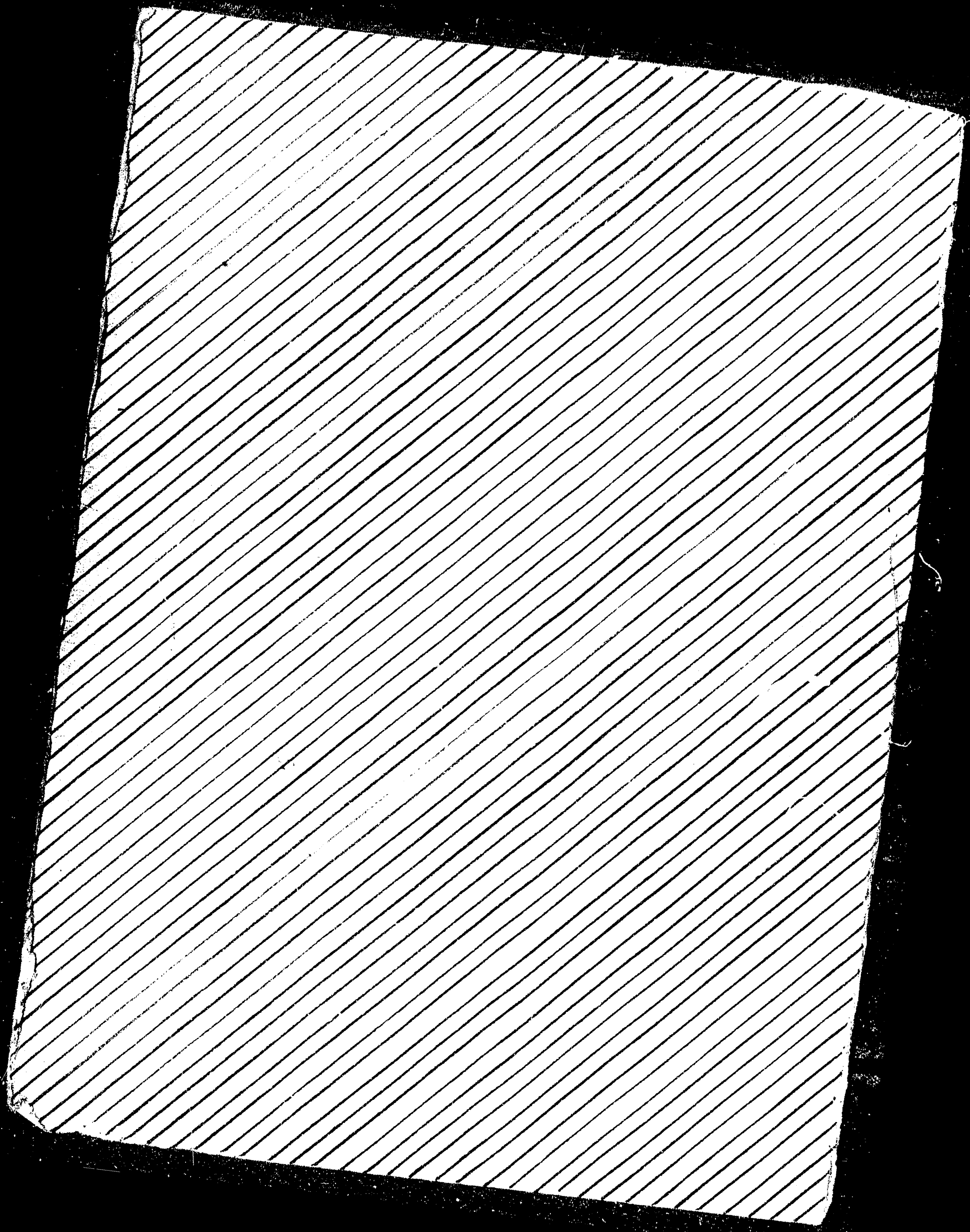
Extension: —

Completion of Works: 9-28-56

Other Rights: 146 shares of Twp.

Edwin Davis, Esq. water

15 shares Weston Gr. Irr. Co. water



APPLICATION FOR PERMIT

To Construct a Reservoir and Appropriate and Store
The Public Waters of the State of Idaho

Application No. R-33095
Permit No. R- 945

W. Maurice Tingey
Weston, Idaho

1. Name of Applicant: W. MAURICE TINGEY

Postoffice address: Weston

County Franklin

State Idaho

I. If applicant is a corporation, give:

(a) Date and place of incorporation:

(b) Amount of Capital Stock: \$

(c) Amount paid in: \$

(d) Names and addresses of directors:

II. The financial resources of the corporation are:

(a) Cash on hand: \$

(b) Treasury Stock: \$

(c) Bonds to be issued: \$

(d) Other resources:

2. Quantity of water to be stored: 78

acre feet per annum.

3. Source of water supply is an un-named stream (Creek) (River) (Spring), a tributary of Nash Hollow River--

4. The outlet of the proposed reservoir is located N 34° 30' E 1700 feet, distant from the S. E. corner of Section 12, Township 16 S., Range 38 E., B. M. and is in the N. E. ¼ of S. E. ¼ of Section 12, Township 16 S., Range 38 E., B. M. County of Franklin

5. Fill out either (a) or (b).

(a) The reservoir is located in the channel of a tributary of Nash Hollow

(Creek) (River).

(b) The reservoir is to be filled through a feeder canal, the point of diversion for which is located

feet distant from

the corner of Section , Township , Range , B. M., and is in the (bearing)

¼ of

Section , Township , Range B. M.; width at bottom feet, width at top

feet, depth of water

feet; average grade per mile

feet; Capacity

cubic feet per second.

6. (a) The area of the high water line of the reservoir is 12.6

acres.

(b) The reservoir capacity is 77.67

acre feet.

7. Height of reservoir dam 23 feet, length at top 415 feet, length at bottom 140 feet, size of outlet 12" feet

The dam is to be constructed of materials as follows: Clay loam, clay, sandy clays and sands.

(If height will exceed 10 feet, plans must be approved by Department of Reclamation, before beginning construction.)

8. (a) Will water stored in reservoir be diverted to canal or aqueduct, thence to land to be irrigated without commingling with natural flow of

Nash Hollow Tributary (Creek) (River)? Yes

(b) Water stored in reservoir will be carried in the channel of

(Creek) (River), a distance

of miles to point of diversion located

feet, distant from the

corner of Section

Township , Range , B. M., and in the ¼ of

¼ of Section

Township

, Range

B. M.

9. (a) Area of watershed above dam site 3

square miles

(b) Estimated maximum flow of stream 63

cubic feet per second.

10. Water is to be used for irrigation

purposes.

11. If for mining, milling, power or manufacturing purposes give:

(a) Point of use of water (bearing) feet, distant from Corner of Section , Township , Range

B. M. and is in the ¼ of ¼ of Section , Township , Range

(b) Amount of power generated:

H. P., under

feet head.

(c) Water is to be returned to

corner of Section

(Creek) (River) (Spring) at a point

feet

distant from the ¼ of

, Range

, B. M. in

the ¼ of ¼ of Section , Township

, Range

, B. M.

12. Water stored in accordance with this Permit will be carried to place of use through a canal heretofore constructed under the terms of Permit No. , which is hereby referred to and made a part hereof.

13. Kind of diversion works: canal and pipe line

(Dam, canal, flume, pipe, etc.)

14. Height of diversion dam: feet, length at top

feet, length at bottom

feet. The dam is to be constructed

of materials as follows:

(If height will exceed 10 feet, plans must be approved by Department of Reclamation, before beginning construction.)

15. Size of headgate: Width 12" dia. feet, Height feet
16. Diversion Canal: Width at bottom feet, width at water line feet, depth of water feet, Dimensions of Flume
Diameter of Pipe inches, Length of Conduit miles. Average grade per mile feet.
17. Estimated cost of Works: Storage Works: \$ 4000 Diversion Works: \$
18. Time required for completion of work 2 years.
19. Time required for complete application of water to proposed beneficial use is 5 years.
20. The land to be irrigated is described in the following tabulation:

(Give Irrigable acreage in each 40-acre subdivision.)

Twp.	Range	Sec.	NE 1/4				NW 1/4				SW 1/4				SE 1/4				Totals
			NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	NE 1/4	NW 1/4	SW 1/4	SE 1/4	
16 S.	38 E.	12			20	40													220
16 S.	39 E.	18							20	20									40
Total Number of Acres to be Irrigated																			260

Total Number of Acres to be Irrigated

260

21. Existing rights and/or valid permits appurtenant to lands described in Sec. 20 are
- A. 146 Shares of Twin Lakes Irr. Co. Water.
- B. 15 Shares of Weston Creek Irr. Co. Water.

Remarks:

BE IT KNOWN That the undersigned hereby makes application for permit to construct a reservoir and appropriate and store the public waters of Idaho as herein set forth, and that the enclosed map is hereby made a part of this application.

W. MAURICE TINGEY

Applicant.

By

Agent.

Date of first receipt at Department of Reclamation: 9:00 A.M. Aug. 28, 1954

Returned to applicant for correction

Corrected application received

APPROVAL OF STATE RECLAMATION ENGINEER

The number of this permit is R 945

Recorded in book R 4, page 945, Approved Nov. 4, 1954

This is to certify that I have examined the within application for a permit to construct a reservoir and appropriate and store the public waters of the State of Idaho, and hereby approve the same, subject to the following limitations and conditions:

Bond in the sum of \$, to be filed on or before

Work to begin on or before January 4, 1955 and to continue diligently and uninterruptedly to completion, unless temporarily interrupted by circumstances over which the permit holder has no control.

One fifth of the work above specified to be completed on or before November 4, 1955

The whole of said work to be completed on or before November 4, 1956

Beneficial use of water stored in accordance herewith, to be made on or before November 4, 1961

Witness my hand this 4th day of November

1954.

MARK R. KULP
State Reclamation Engineer.

IN TESTIMONY WHEREOF, We, LEN JORDAN

Governor of the State of Idaho,

and IRA H. MASTERS

Secretary of State of the State of Idaho, have caused this instrument to be executed in

the name of the State of Idaho, and caused the Great Seal of the State of Idaho to be hereunto affixed, this 4th day of

November 1954.

Countersigned:

STATE OF IDAHO

(SEAL)

By IRA H. MASTERS
Secretary of State.

By LEN JORDAN

Governor.

R-945

Permit No. R-945
CERTIFICATE OF COMPLETION OF WORKS

TO ALL WHOM IT MAY CONCERN:

This is to certify that W. MAURICE TINGEY of Weston, County of Franklin and State of Idaho, the holder of Permit No. R-945, issued upon Application No. R-33095, bearing date of priority of August 28, 1954, authorizing the construction of a reservoir, with the right to appropriate and store 78 acre feet per annum of the waters of an un-named stream, a tributary of Nash Hollow, in the County of Franklin, State of Idaho, for Irrigation purposes, has fully complied with the provisions of the laws of the State of Idaho relating to the proof of completion of the works set out and described in said Permit; that said works include a dam and reservoir adequate for the storage of 77.67 acre feet of water per annum, with adequate diversion works and conduit to the reservoir, and a conduit capable of conducting said water to the place of intended use; that the point of outlet of said reservoir is located in the NE $\frac{1}{4}$ of the SE $\frac{1}{4}$ of Section 12, Township 16 S., Range 38 E., and that the place of use, or the lands proposed to be irrigated by the use of said water, are described as follows, to-wit: S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ Section 12, Township 16 South, Range 38 East, R.M.

Witness my hand this 28th day of September, 1956.

MARK R. KULP
State Reclamation Engineer

Proof of completion of works made September 7, 1956
Certificate of Completion of Works issued September 28, 1956.

Application for Amendment

LAND LIST ✓
Permit No. R-945

Comes now W. MAURICE TINGEY, and represents to the State Reclamation Engineer of the State of Idaho:

That he is the owner and holder of Permit to Appropriate the Public Waters of the State of Idaho, No. R-945, and requests that the list of lands to be irrigated, as described in said permit, be changed to read as follows:

S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$, Sec. 12; N $\frac{1}{2}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$, Sec. 13, T. 16 S., R. 38 E., D. M., making a total of 258 acres.

That an additional amount of water is not asked for, and that the rights of others will not be adversely affected by such change.

Signed at Weston, this 25th day of November, 1961.

Date of Receipt at Office of Department of Reclamation: February 12, 1962

APPROVAL OF STATE RECLAMATION ENGINEER

I, RALPH W. THOMAS, Deputy State Reclamation Engineer of the State of Idaho, hereby approve the above and foregoing application for amendment to Permit to Appropriate the Public Waters of the State of Idaho, No. R-945. This approval constitutes a new permit and is issued as an amendment to the original permit, to which it refers, and of which it becomes a part, and said application is approved only insofar as the rights of others will not be adversely affected thereby.

s/ RALPH W. THOMAS
Deputy State Reclamation Engineer

Recorded: February 13, 1962

correct
LICENSE ISSUED FOR 77.67 SEC. F.
Page 7248

State of Idaho License and Certificate of Water Right

Water License No. R-945

Amount 77.67 ac. ft.

Water District No.

Priority August 28, 1954

THIS IS TO CERTIFY that W. MAURICE TINGEY
of Weston, Idaho, made application for a permit to appropriate the
public waters of the State of Idaho, dated August 28, 1954; that Permit No. R-945
was issued under said application; that Certificate of Completion of works, with a carrying capacity of
77.67 ^{acre} ~~second~~ feet, was issued thereunder on September 28, 1956, showing that said works
were completed on the 7th day of September, 1956; and that on the 25th
day of July, 1961,

W. MAURICE TINGEY

of Weston, State of Idaho, made proof to the satisfaction of the
State Reclamation Engineer of Idaho, of the right to use the waters of an
unnamed stream, a tributary of Nash Hollow, for the purpose of irrigation
, under Use Permit No. R-945 of the Department of Reclamation
and that said right to the use of said waters has been perfected in accordance with the laws of Idaho,
and is hereby confirmed by the State Reclamation Engineer of Idaho and entered of record in Volume
12 of Licenses at page 7248, on the 13 day of February, 1962;

The right hereby confirmed dates from August 28, 1954;

The Point of Diversion is located
in the NE $\frac{1}{4}$ SE $\frac{1}{4}$, Sec. 12, Tp. 16 S, R. 38 E., B. M. Franklin County

That the amount of water to which such right is entitled and hereby confirmed, for the purposes
aforesaid, is limited to an amount actually needed and beneficially used for said purposes, and shall
not exceed 77.67 ^{acre} ~~cubic~~ feet ~~per second~~

Description and location of use:

Twp.	Range	Sec.	Forty-acre Tract	No. Acres Described in Permit	No. Acres Actually Irrigated
16 S.	38 E.	12	SW $\frac{1}{4}$ NE $\frac{1}{4}$	20	9
			SE $\frac{1}{4}$ NE $\frac{1}{4}$	40	27
			NE $\frac{1}{4}$ SE $\frac{1}{4}$	40	28
			NW $\frac{1}{4}$ SE $\frac{1}{4}$	40	24
			SW $\frac{1}{4}$ SE $\frac{1}{4}$	40	40
			SE $\frac{1}{4}$ SE $\frac{1}{4}$	40	37
		13	NE $\frac{1}{4}$ NE $\frac{1}{4}$		40
			NW $\frac{1}{4}$ NE $\frac{1}{4}$		40
			NE $\frac{1}{4}$ NW $\frac{1}{4}$		13
			Total number of acres to be irrigated:	258	

The right to the use of the water aforesaid hereby confirmed is restricted to the lands or place
of use herein described, as provided by the laws of Idaho.

WITNESS the seal and signature of the State Reclamation Engineer, affixed at Boise, Idaho, this

13th day of February, 1962.

RALPH W. THOMAS
Deputy State Reclamation Engineer.

(SEAL)

