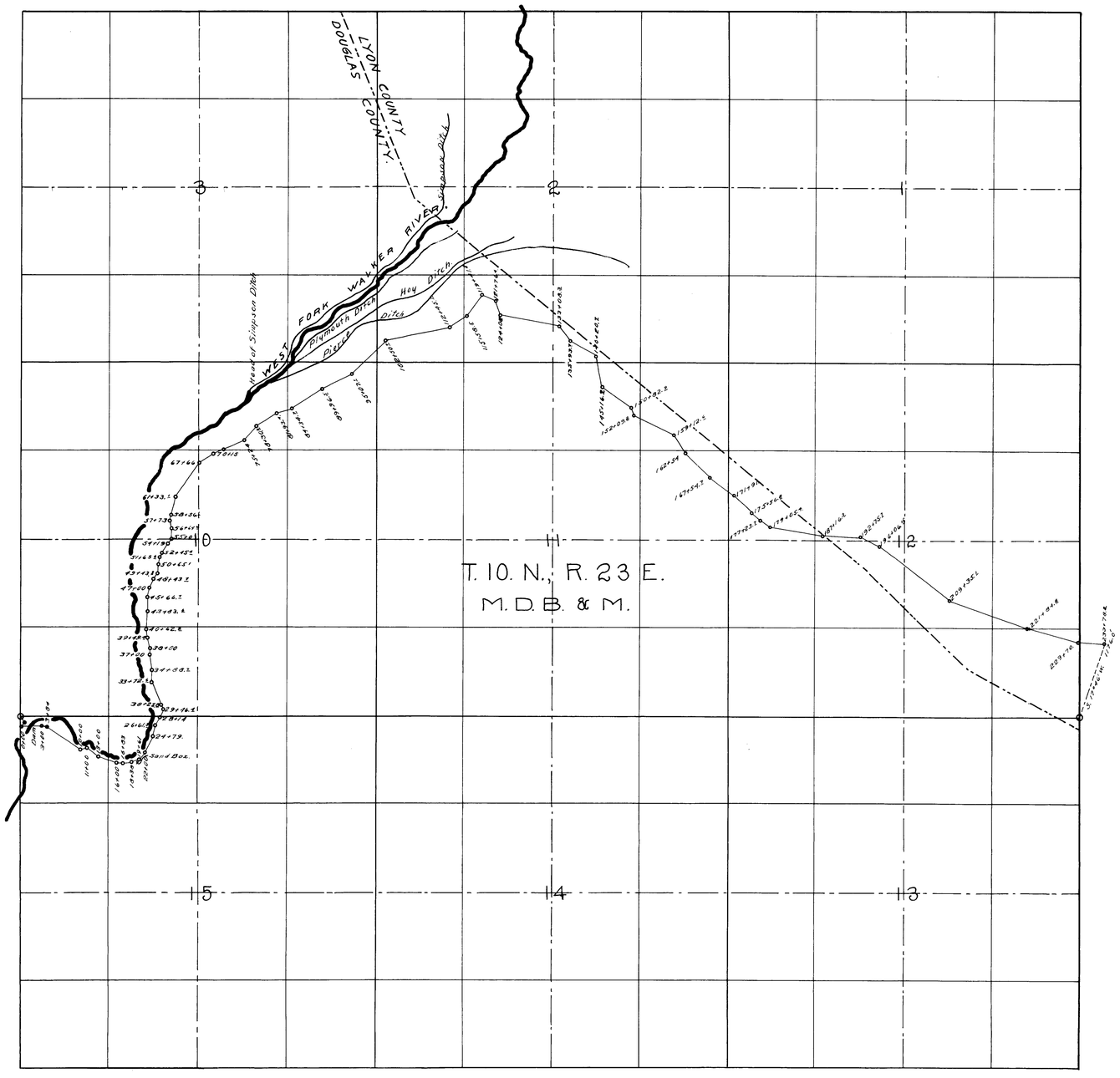


State of Nevada, County of Lyon, S.S.

I, S. A. Johnson, of Mason, County of Lyon, State of Nevada, hereby certify that the above map is a true and accurate plat of the Smith Valley Land Company's Irrigation works, as taken from the field notes of a survey made by me, in conjunction with Wm. W. Coleman, Consulting Engineer, on November 18, 1913, and finished on November 29, 1913, and at the instance of C. E. Shillingford; that it represents the works described in application No._____, together with the location of streams and ditches in the immediate vicinity.

S. A. Johnson, Chief Engineer.

Subscribed and sworn to before me this___day of _____, 19 ,

_____

Notary Public, in and for Lyon County, Nevada.

CROSS SECTION OF CANAL.

0+00 to 2+48, 80' flashboard weir, and earth fill dam. 2+48 to 4+50, Canal, 26' top, 21' bottom, 6' deep. Side Slope, ½ on 1, Grade, 2.25' per mile. V = 2.6' per second. Q = 338. 4+50 to 21+25, Flume, 6'x15', V = 5.33, Q = 391.5 sec. ft. Grade, 2.00' per mile. 21+25 to 21+75, Sand Box, 20'x50'x14' 21+75 to 29+60 Canal, 30' top, 15' bottom, 5' deep. Side slope, 1½ on 1, Grade, 2.25' per mile. V = 2.68, Q = 302. 29+60 to 44+80, flume, as above. 44+80 to 56+70, Canal, size as noted above. 56+70 to 72+00, flume, 6'x15', Grade 2.25. 72+00 to 120+00, flume, 6'x7.83', Grade, 2.25' per mile. V = 4.46' per second, Q = 174.' 120+00 to 142+70, Canal, 22' top, 10' bottom, 4' deep, Side slope, 1½ on 1, Grade, 2.25' per mile. V = 2.65', Q = 170 sec. ft. 142+70 to 144+18, flume, as noted. 144+78 to 152+09, Canal, as above. 152+09 to 158+97, Flume. 158+97 to 233+78.8, Canal, 22'x10'x4', as above. At this point, first lateral is taken out, and for each subsequent lateral, cross section reduced.

MAP

SHOWING DIVERSION POINT

and

ROUTE OF CANAL

for

SMITH VALLEY LAND CO.

in

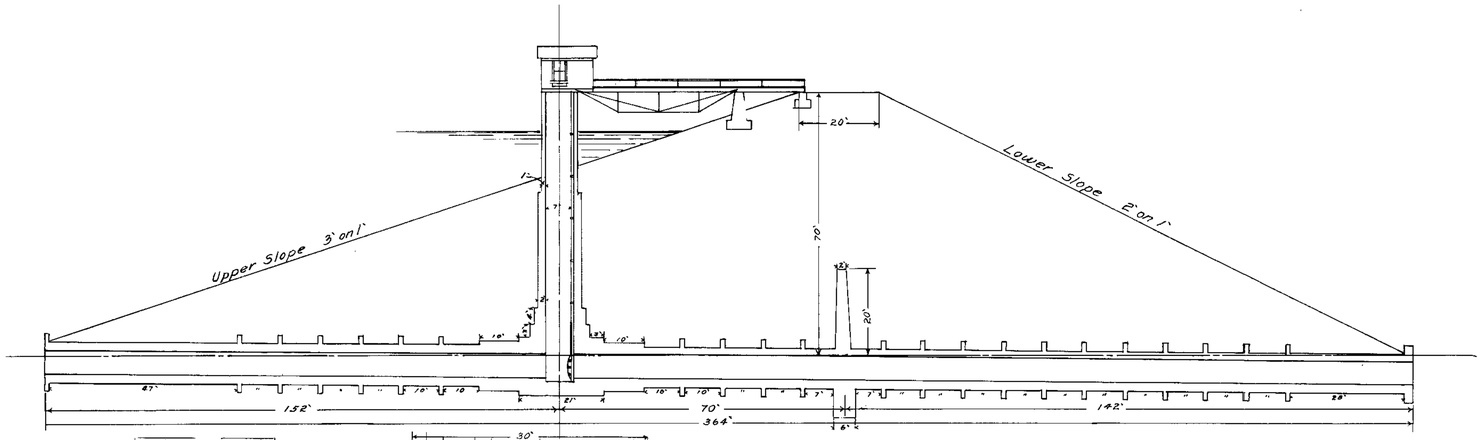
DOUGLAS & LYON COUNTIES, NEVADA.

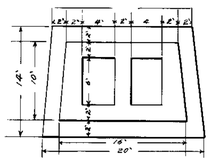
Scale, 1 Inch = 1000 feet.

S. A. Johnson, C. E.

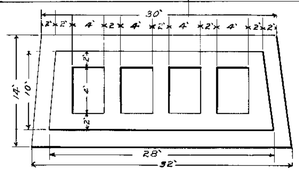
Also see map filed under [illegible]

1663-1700

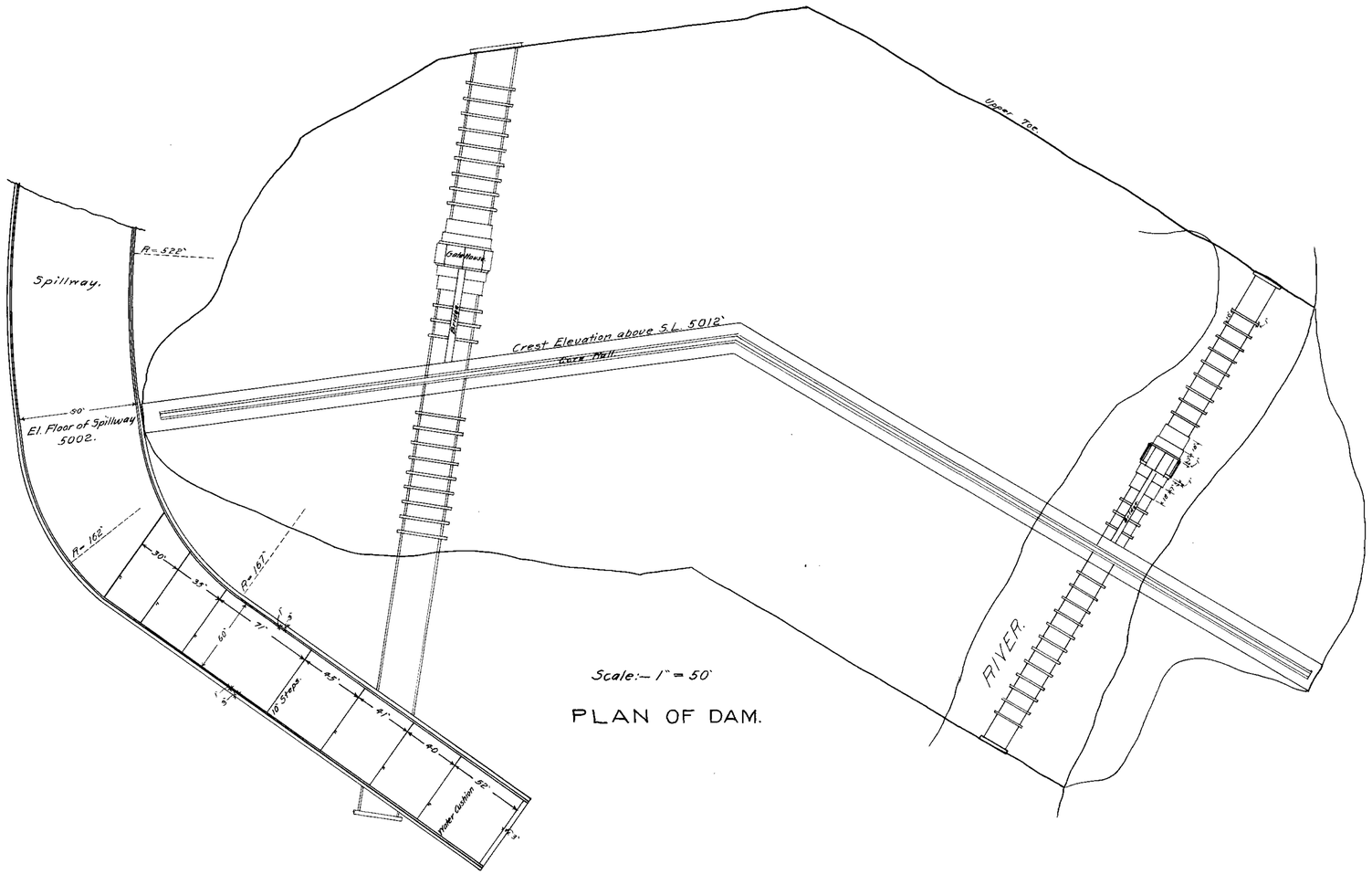




Scale:— 1" = 10'
FACE OF SLUICE CONDUIT.

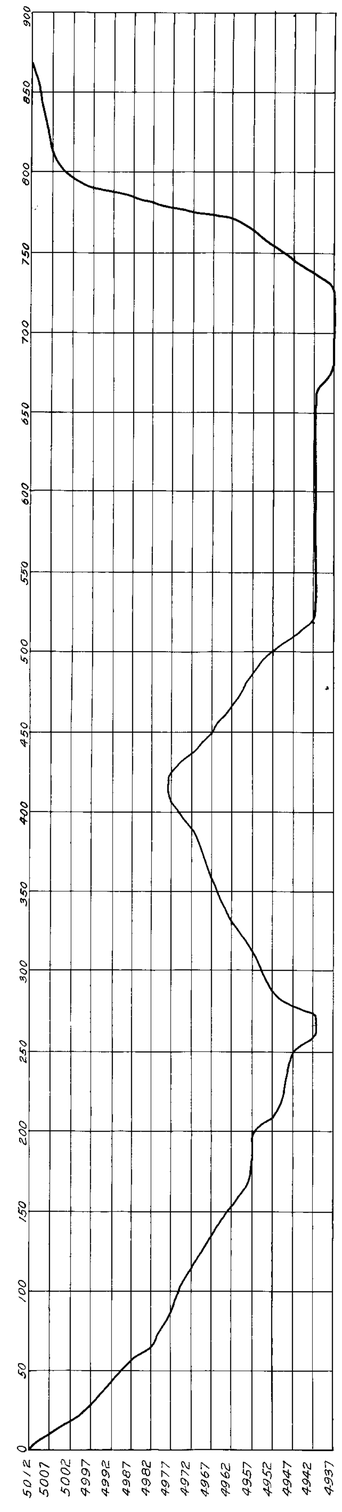


Scale:— 1" = 10'
FACE OF CANAL CONDUIT.



Scale:— 1" = 50'

PLAN OF DAM.



CROSS SECTION ON AXIS LINE OF DAM.

PLATE V.

1663-1700

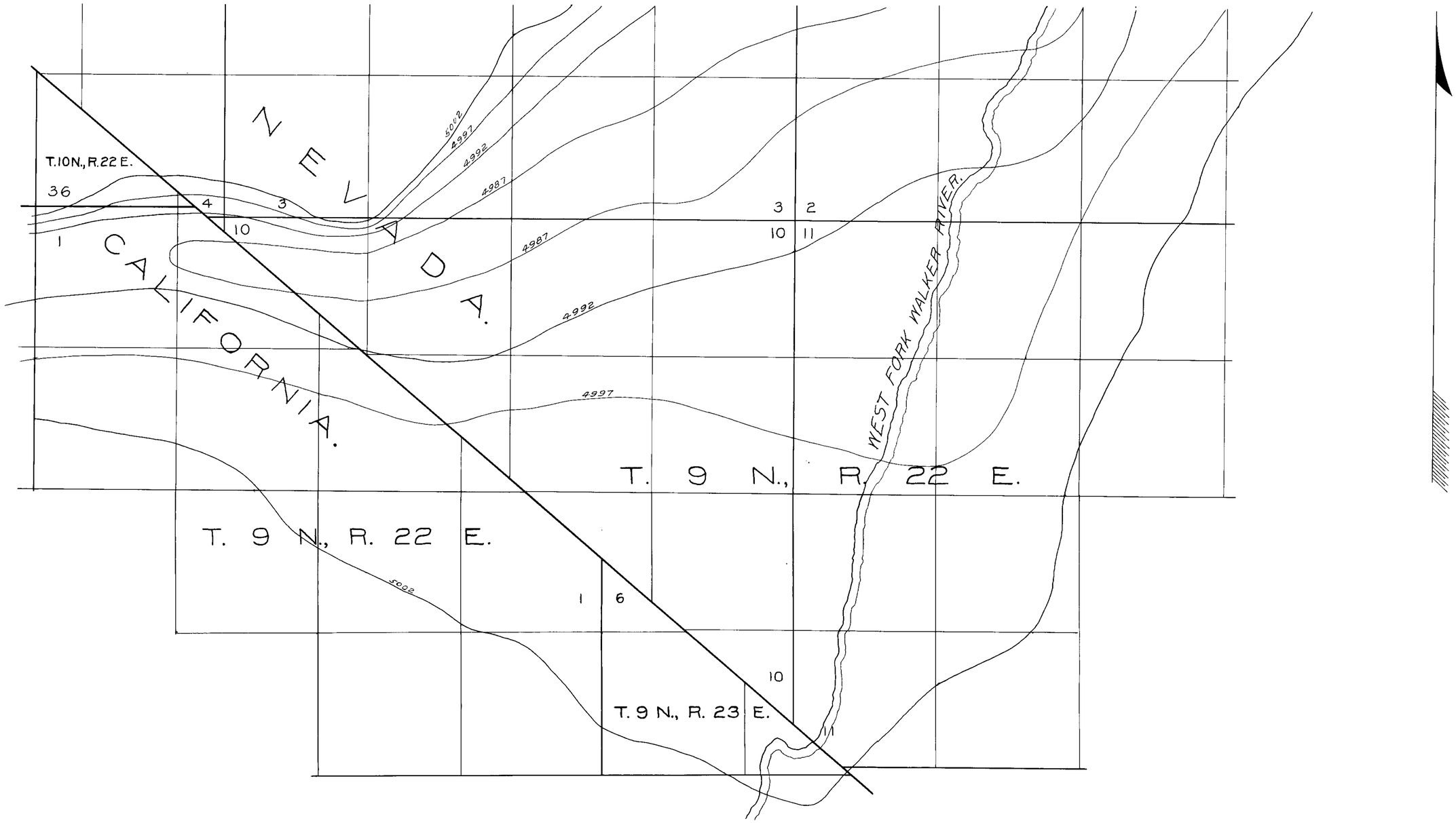


PLATE IV.

1663-1700

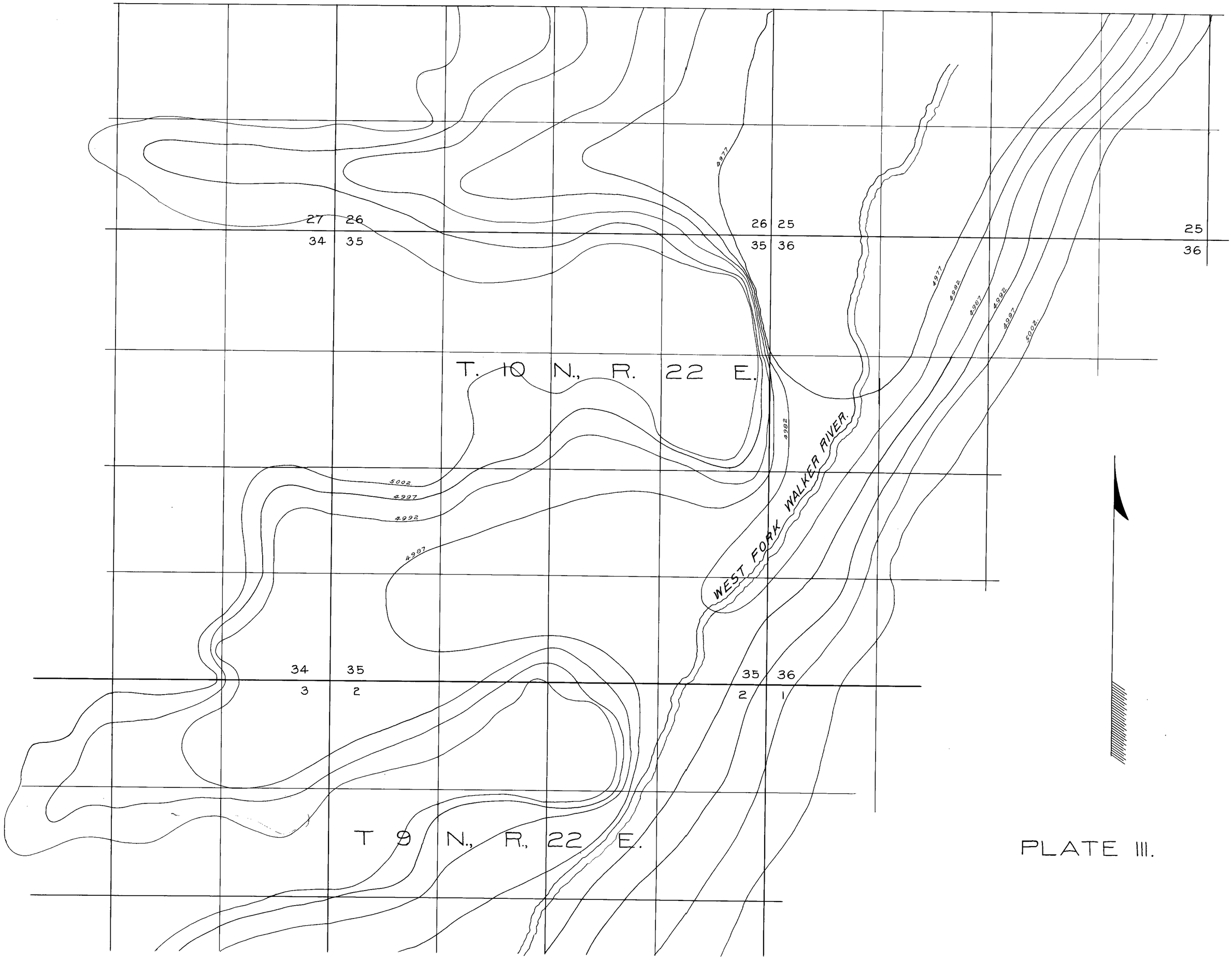
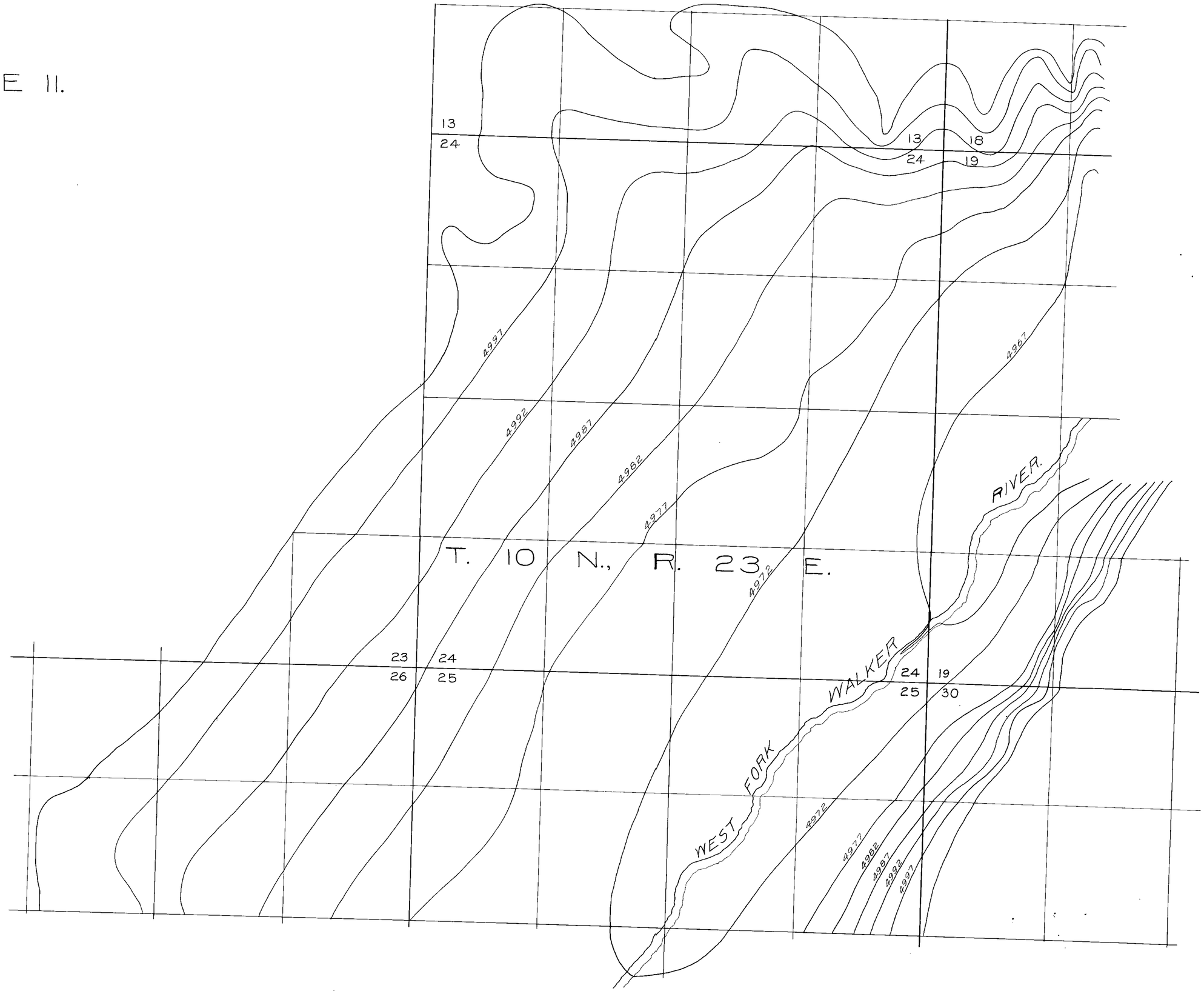


PLATE III.

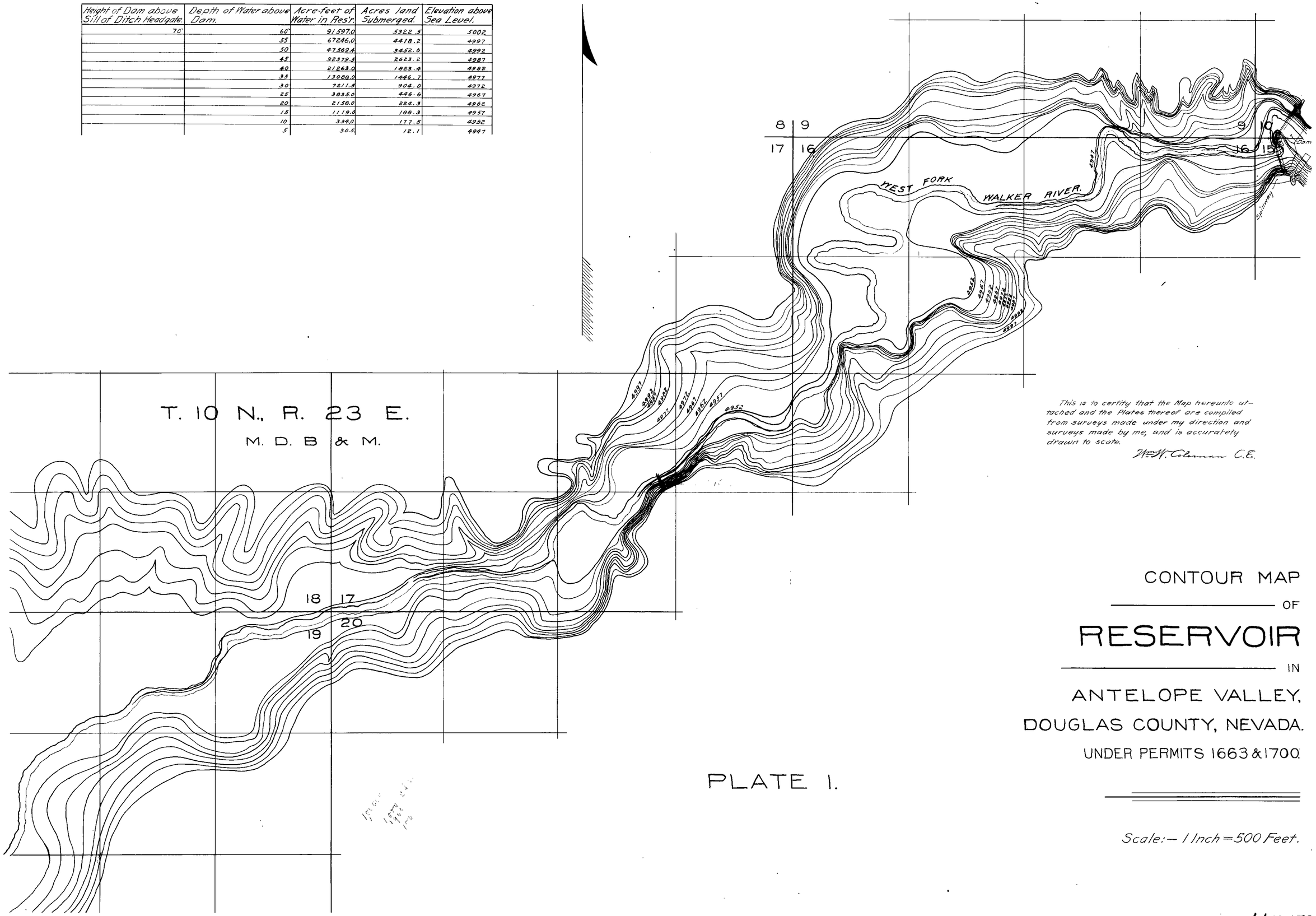
1663-1700

PLATE 11.



1663-1700

Height of Dam above Sill of Ditch Headgate.	Depth of Water above Dam.	Acre-feet of Water in Rest.	Acres land Submerged.	Elevation above Sea Level.
70'	60'	91597.0	5322.5	5002
	55	67246.0	4418.2	4997
	50	47569.4	3452.6	4992
	45	32379.5	2623.2	4987
	40	21263.0	1823.4	4982
	35	13088.0	1446.7	4977
	30	7211.5	904.0	4972
	25	3835.0	446.6	4967
	20	2158.0	224.3	4962
	15	1119.0	188.3	4957
	10	334.0	177.5	4952
	5	30.5	12.1	4947



This is to certify that the Map hereunto attached and the Plates thereof are compiled from surveys made under my direction and surveys made by me, and is accurately drawn to scale.

Wm. H. Coleman C.E.

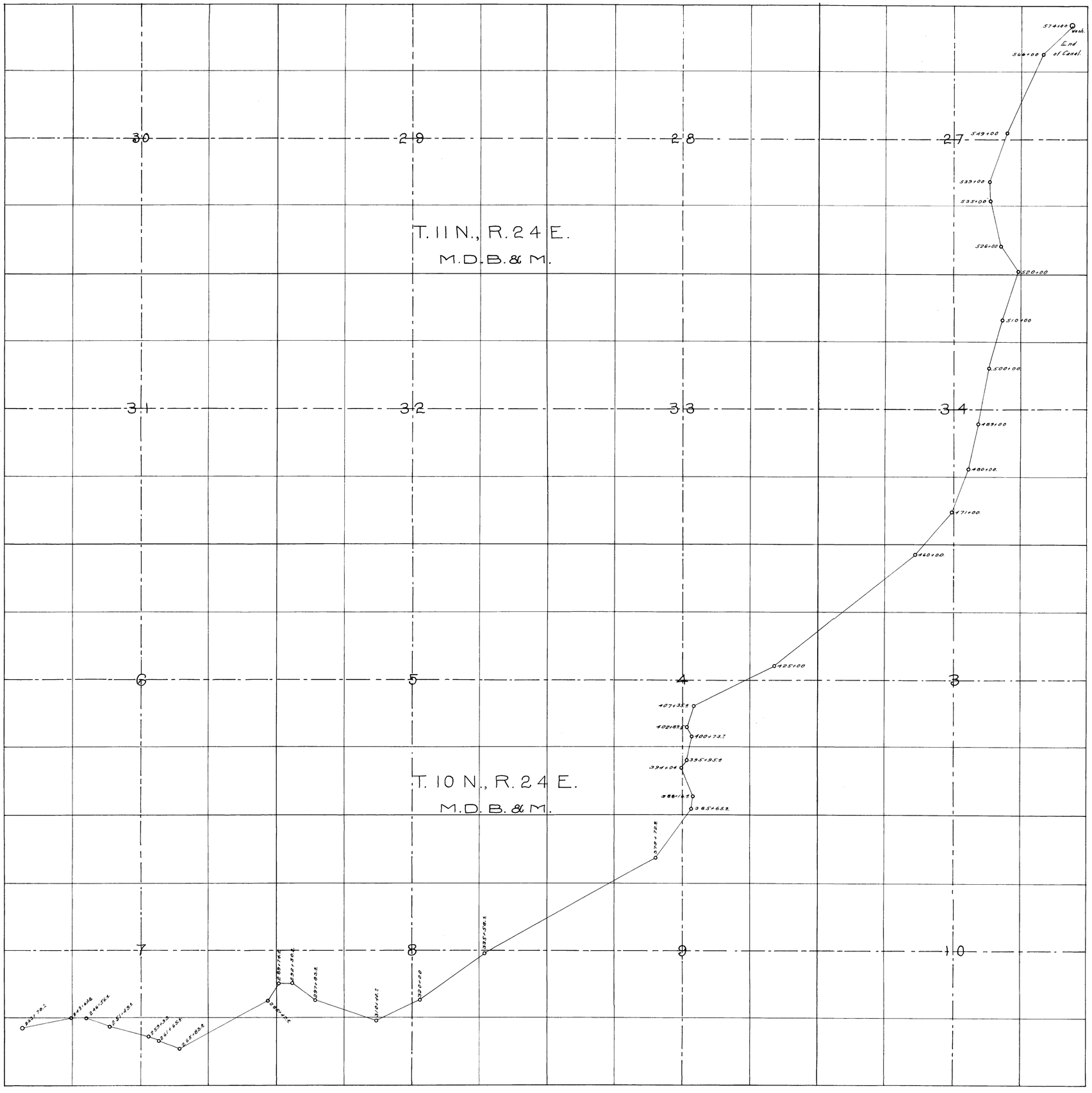
CONTOUR MAP OF RESERVOIR IN ANTELOPE VALLEY, DOUGLAS COUNTY, NEVADA.

UNDER PERMITS 1663 & 1700.

PLATE I.

Scale:— 1 Inch = 500 Feet.

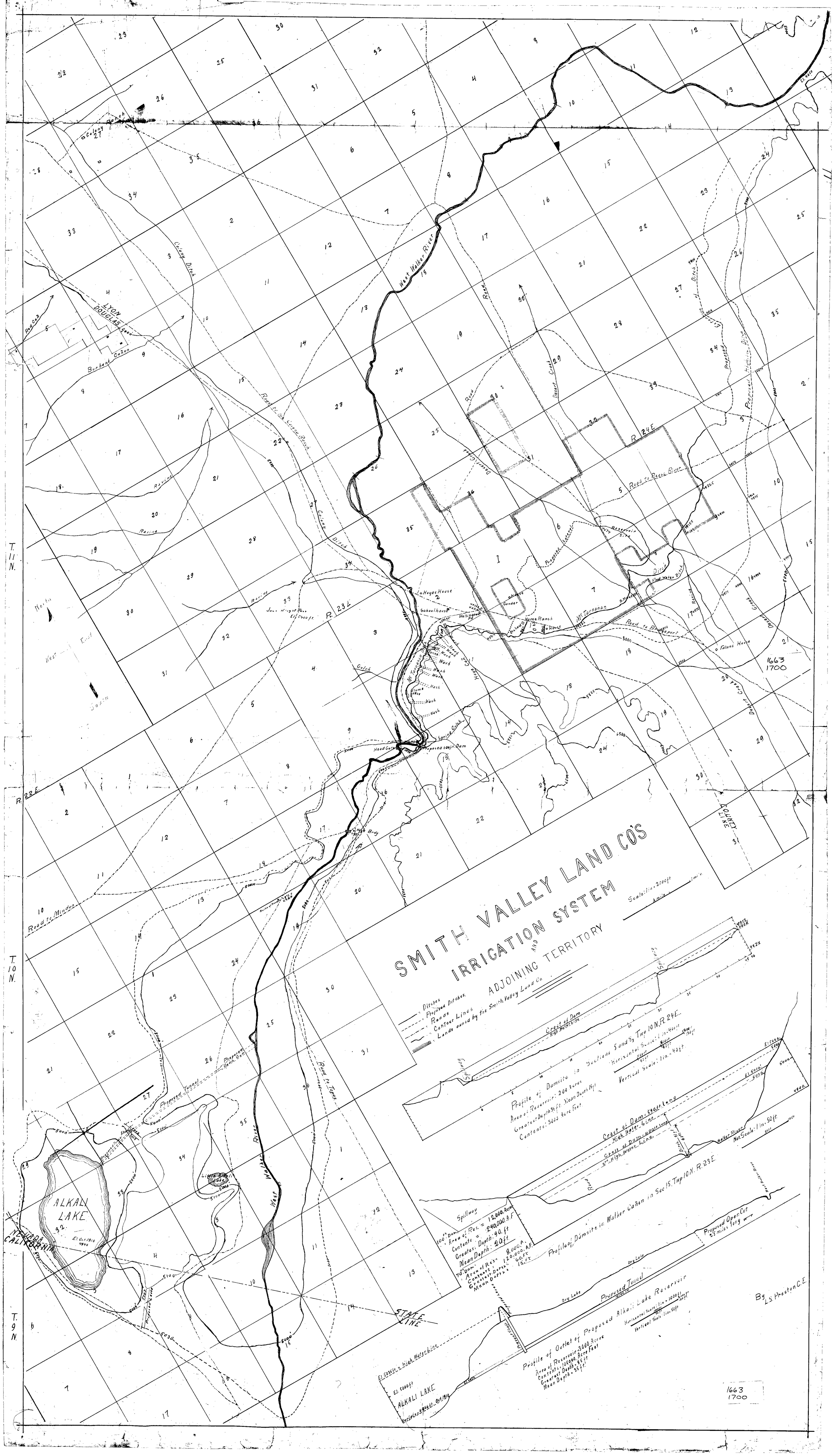
1663-1700



Cross Section of Canal.
233+78±, to 402+89±, Canal, 17' on top, 5' on bottom, 4' deep; Side 1½ on 1; Grade, 2.2' per Mile. Capacity, 111 second feet.
402+89.5 to 574+00 Canal, 13' on top, 4' on bottom, 3' deep; Side slope, 1½ on 1; Capacity, 67.2 second feet. Grade, 5' per Mile.

PLATE II.

1663-1700


SMITH VALLEY LAND CO'S
IRRIGATION SYSTEM
AND
ADJOINING TERRITORY
Ditches
Proposed Ditches.
Roads
Contour Lines
Lands owned by the Smith Valley Land Co.
Profile of Damsite in Sections 5 and 8, Twp 10 N. R. 24 E.
Profile of Damsite in Walker Cañon in Sec 15, Twp 10 N. R. 23 E.
Profile of Outlet of Proposed Alkali Lake Reservoir
ALKALI LAKE
STATE LINE
COUNTY LINE
LYON
DOUGLAS
West Walker River
Walker River
Desert Creek
Colony Ditch
Burbank Cañon
Ravine
Spring Gulch
Head Gate
Proposed 100 ft. Dam
Proposed Tunnel
Proposed Open Cut
Road to Topaz
Road to Minden
Road to Reese River
Road to Bridgeport
Schoolhouse
Home Ranch
Reservoir Site
Proposed Lateral
Proposed Tighlin Ditch
Flood Water Ditch
Dry Lake
Proposed Canal
Proposed Line
Spillway
Crest of Dam
High Water Line
Scale: 1 in = 2000 ft
By L.S. Preston C.E.
1663
1700
T. 11 N.
T. 10 N.
T. 9 N.
R. 22 E.
R. 23 E.
R. 24 E.

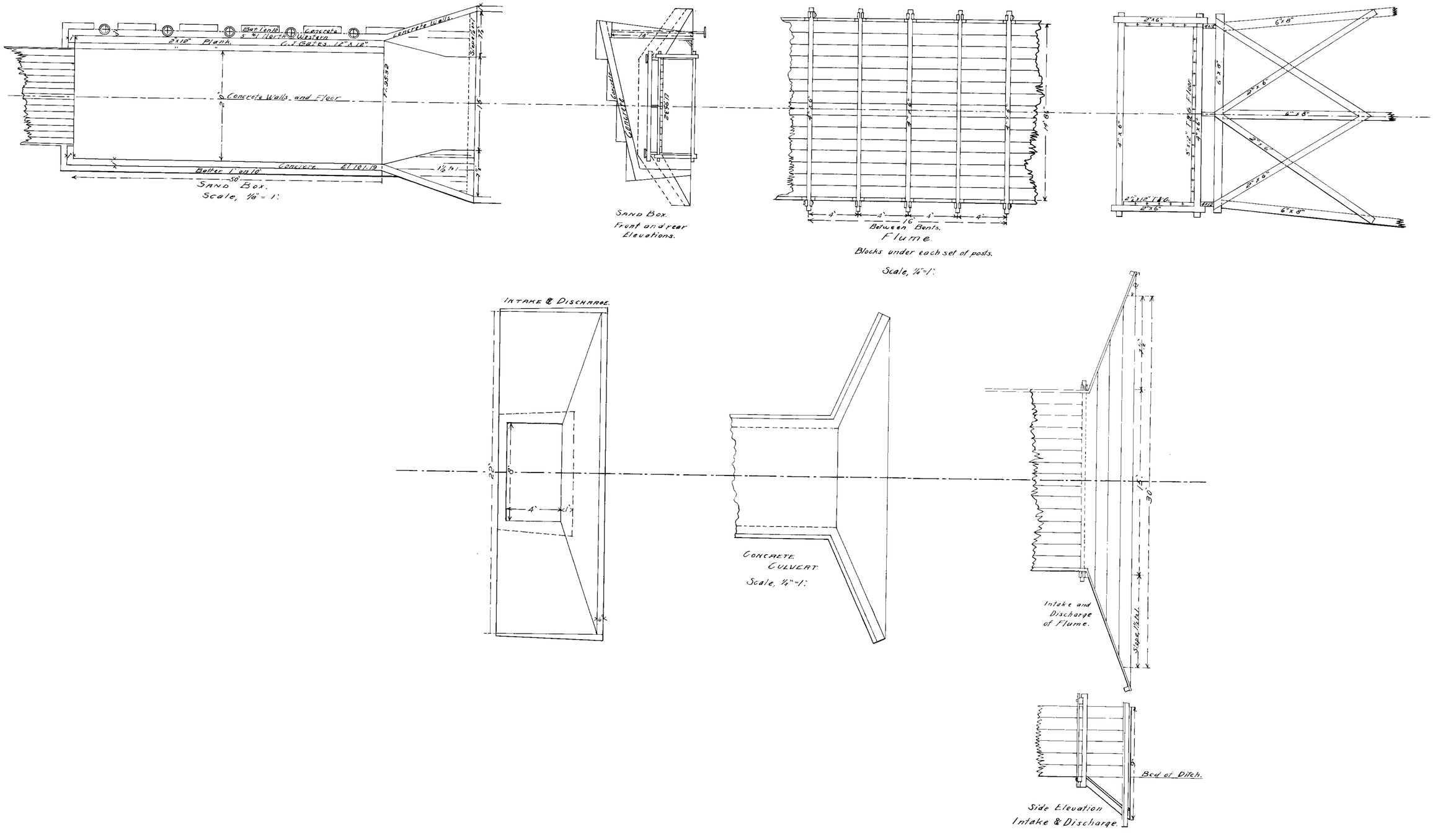


PLATE III.

File
1663-1700