

Book #68 - Dr #8

SPILLYWAY SURVEY

BALD EAGLE LAKE

At North & West Ends

1928

~ ALIGNMENT ~

SPILLWAY AT WEST END OF
BALD EAGLE LAKE

π H.R. Petersen 5/21/28

Spillway at N. End. Bald Eagle Lake

Sta. Point. Δ -Lt. Δ -Rt. Bearing

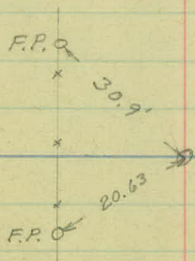
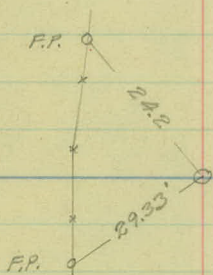
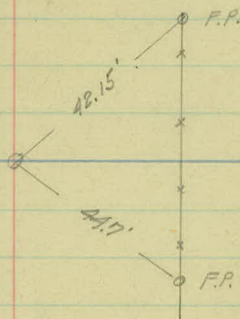
5+89.4 P.O.T.

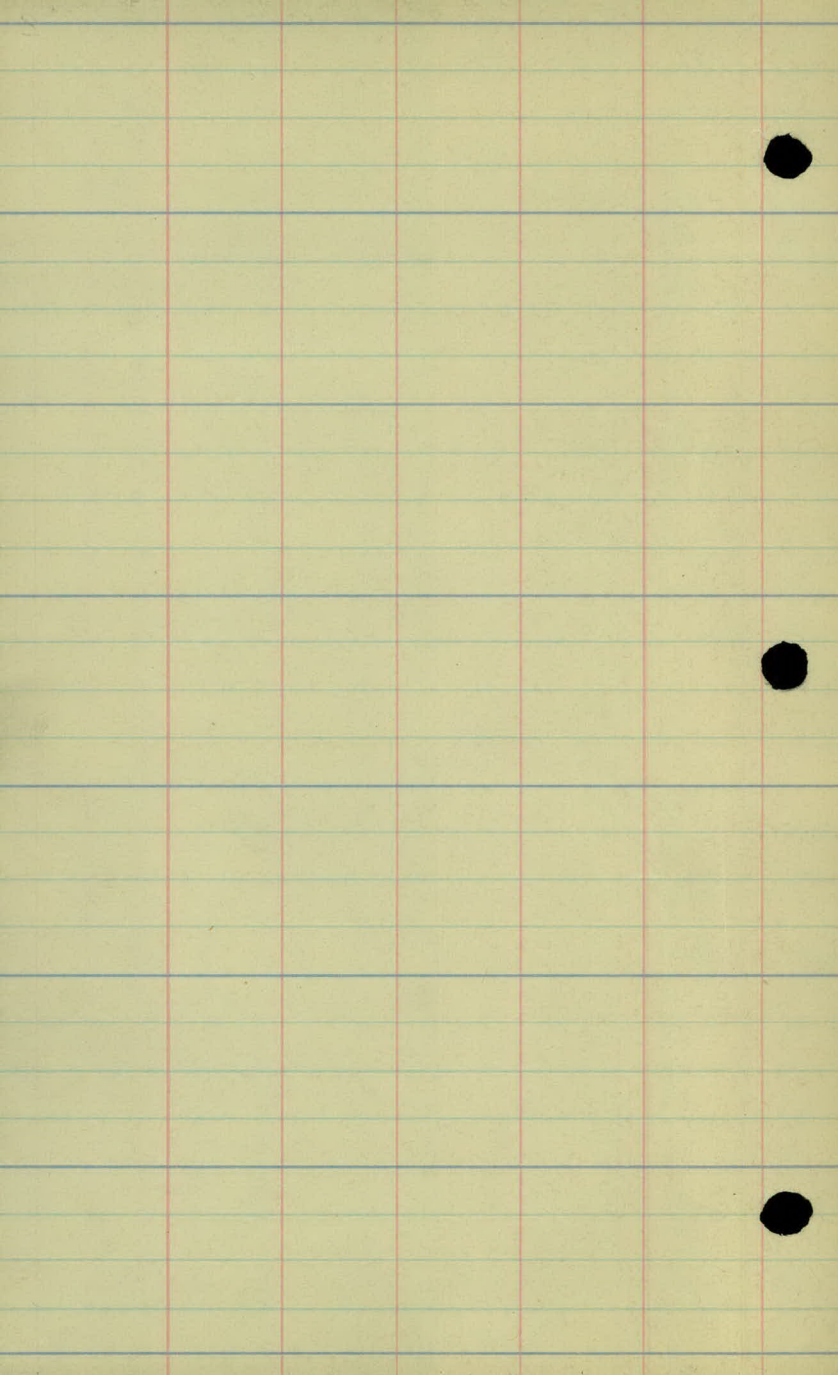
N. $1^{\circ}40'$ W.

1+76.4 P.I.

$29^{\circ}30'$

0+00 P.O.T.



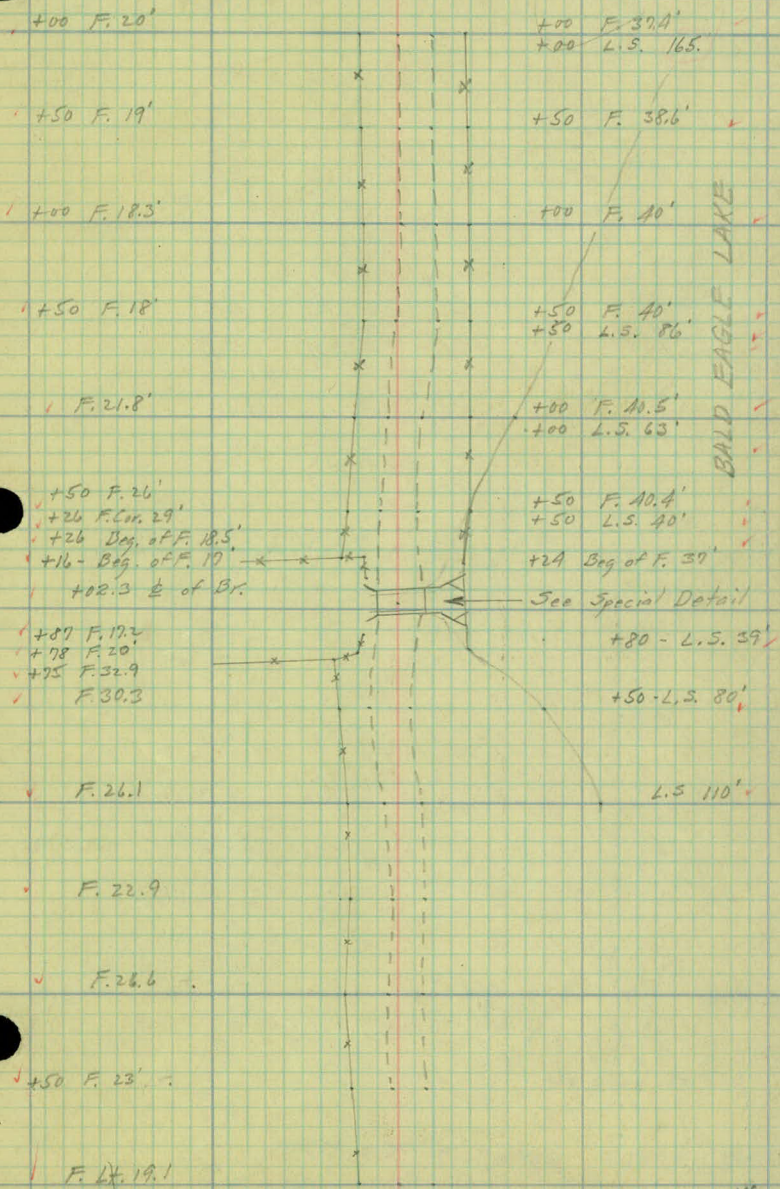


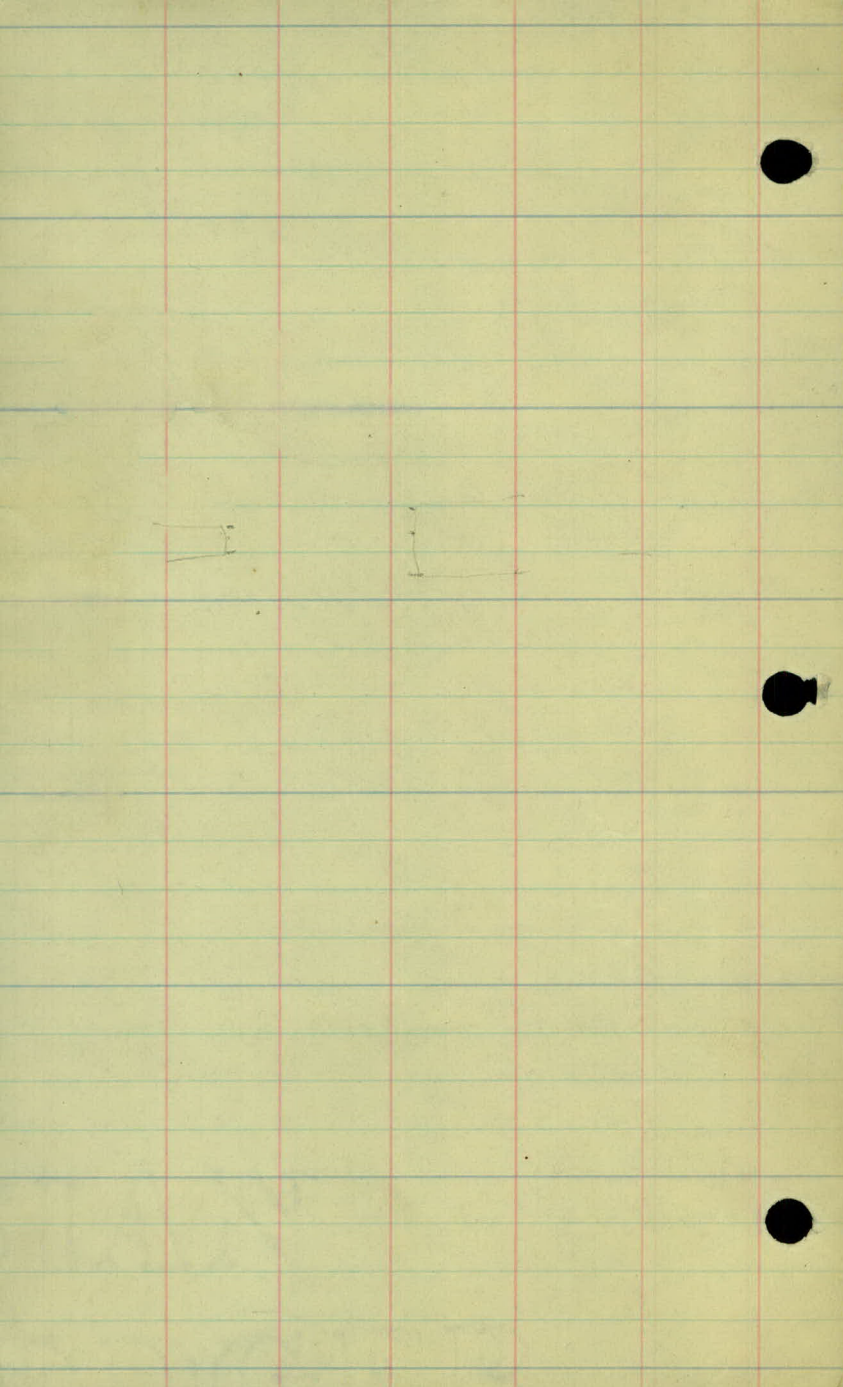
1.
~ TOPOGRAPHY ~

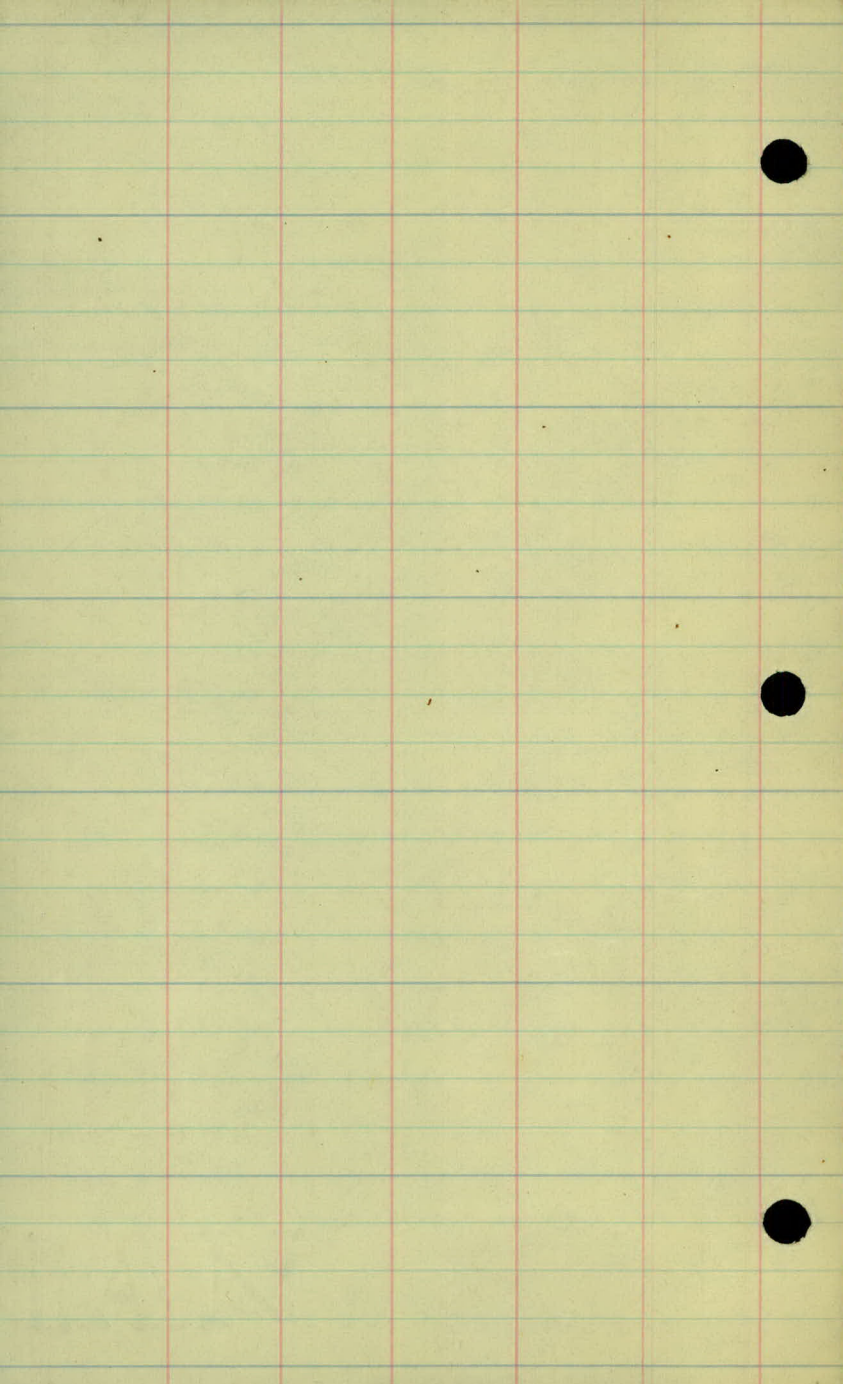
SPILLWAY AT WEST END OF
BALD EAGLE LAKE

π H.R. Petersen 5/21/28

Sta.	Old Road	
	Lt. Side	Rt. Side
6+00	0.0	18' Rt. ✓
+50	1' Rt.	18.4' Rt. ✓
5+00	1.5' Rt.	20.5' Rt. ✓
+50	1' Lt.	22' Rt. ✓
4+00	4.6' Lt.	13.3 Rt. ✓
+50	9.4' Lt.	11' Rt. ✓
3+00		
+50	13.5 Lt.	7' Rt. ✓
2+00	7.2 L.	12.6 R. ✓
+50	3' Lt.	14.9' R. ✓
1+00	4.9 Lt.	13.5 Rt. ✓
+50	3' Lt.	16.2 Rt. ✓
0+00	0.0	19.4 Rt. ✓







~LEVELS~

SPILLWAY AT WEST END OF
BALD EAGLE LAKE.

π H.R. Petersen 5/21/28

Levels & Sections - West Spillway - Bald E. Lake

Sta.	B.S.	H.I.	F.S.	Elev.
B.M.	7.72	918.42		910.70
B.M.			2.51	915.91
0+00			5.1	
+50			4.7	
1			4.3	
+50			4.6	
2			5.0	
+50			5.5	
+90			5.2	
3+02			4.86	
			5.72	
			9.37	
			7.72	
			10.53	
3+15			5.2	
+50			5.8	
4			5.3	
+50			6.0	
5			5.5	
+50			4.5	
+89.4			4.2	
B.M.	6.00	916.70	7.72	910.70
			8.0	

Lt.			Rt.	
30'	20'	0	20'	30'

On top of So. end of Conc. Spillway (910.48 in 1924)

Spt. in N. Side of 15" Elm 52' Lt. of Sta. 0+00

12.6	12.4	13.3	14.2	13.0
5.8	6.0	5.1	4.2	5.4
12.3	12.3	13.7	13.7	12.5
6.1	6.1	4.7	4.7	5.9
11.9	12.5	14.1	12.7	12.5
6.5	5.9	4.3	5.7	5.9
10.2	11.5	13.8	13.2	12.3
8.1	6.9	4.6	5.2	6.1
11.0	11.4	13.2	11.4	11.3
7.4	7.0	5.0	7.0	7.1
10.5	11.5	12.9	10.9	10.7
7.9	6.9	5.5	7.5	7.7
10.5	10.7	13.2	12.6	11.7
7.9	7.7	5.2	5.8	6.7

Top of Br. Floor

Top Wing Wall S.E. Cor. = Top Flow Line of Br.

Bot. of Creek at E. end of Br.

On 1/2 of Spillway Sill (Water Level on 5/22/28 = 910.99)

Bot. of Creek at N. end of Br.

11.2	10.1	13.2	12.8	10.7
7.0	8.3	5.2	5.6	7.7
10.8	10.5	12.6	11.2	11.7
7.6	7.9	5.8	7.2	6.7
11.5	12.1	13.1	12.6	11.5
6.9	6.3	5.3	5.8	6.9
10.8	10.9	13.2	13.2	12.5
7.6	7.5	6.0	5.0	5.9
10.9	10.9	12.9	13.2	13.8
7.5	7.5	5.5	5.0	4.6
11.3	11.1	13.9	13.8	13.4
7.1	7.3	4.5	4.6	5.0
12.3	11.8	14.2	14.1	13.2
6.1	6.6	4.2	4.3	5.2

On So. end of Conc. Spillway.

In Bottom at Foot of spillway.

10.10.10

~ ALIGNMENT ~

SPILLWAY AT NORTH END OF
BALD EAGLE LAKE

✶ H.R. Petersen 5/22/28

Sta.	Point	Δ -Lt.	Δ -Rt.	Bearing
------	-------	---------------	---------------	---------

6+20.23	P.O.T.			
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S. $46^{\circ}40'$ W.

3+61.8	P.I.	$46^{\circ}59'$		
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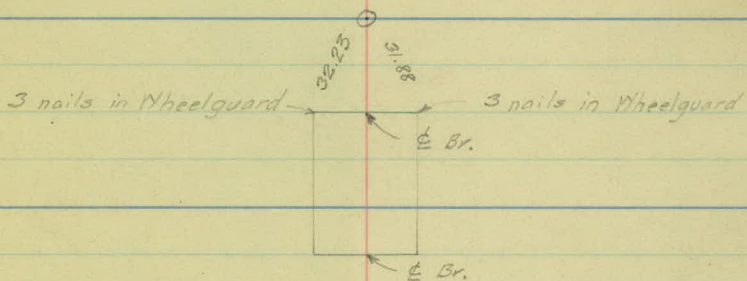
3+32.10	P.O.T.	W. end of Br.		
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N. $86^{\circ}15'$ W.

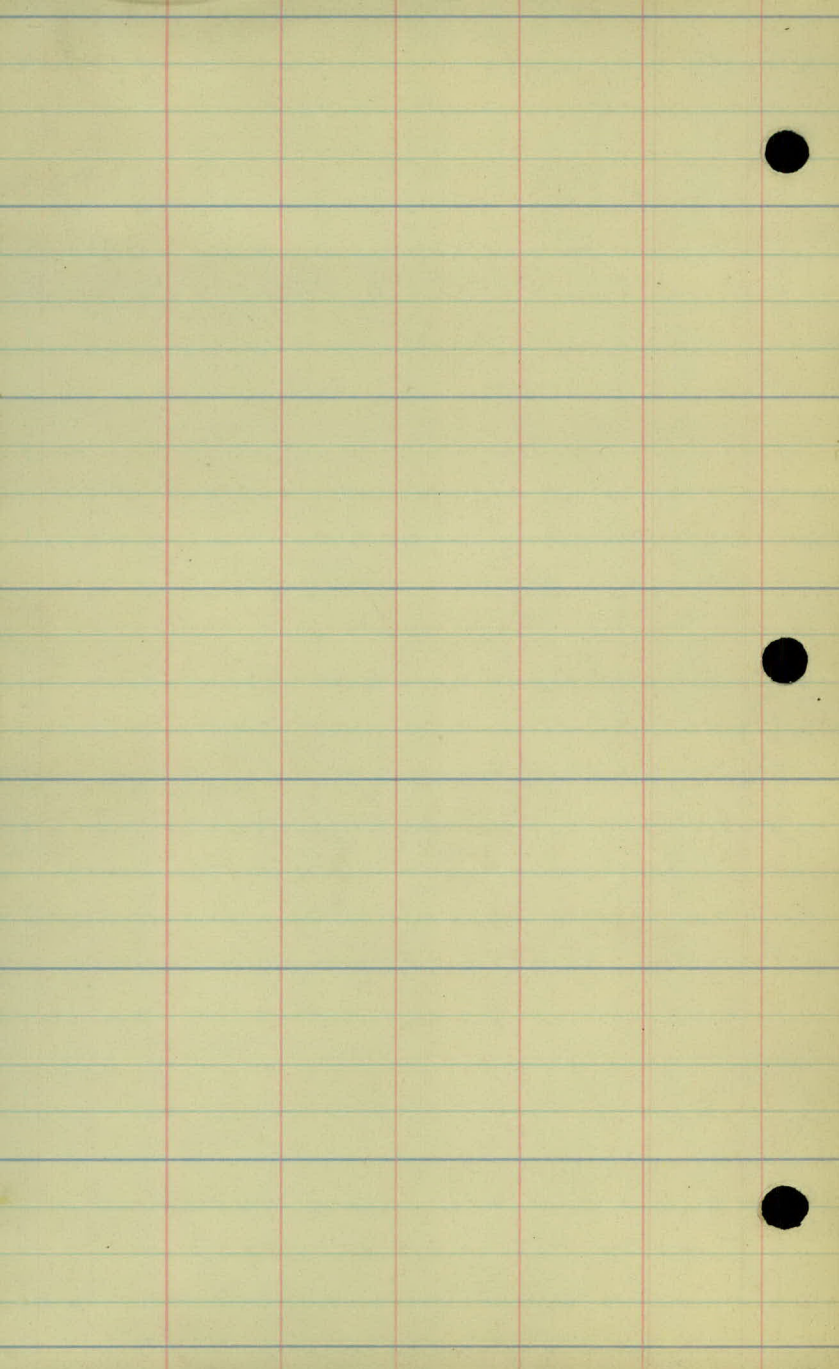
2+99.8	P.O.T.	E. end of Br.		
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0+00	P.O.T.			
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○ Could not tie



○ Could not tie



1
TOPOGRAPHY -

SPILLWAY AT NORTH END OF
BALD EAGLE LAKE.

T H.R. Petersen 5/22/28

Sta.

Old Road
So. Side No. Side

+20

0.0 17' Rt. ✓

6+00

3' Lt. 13' Rt. ✓

+50

10.6' Lt. 8' Rt. ✓

5+00

12' Lt. 6' Rt. ✓

+50

11' Lt. 6' Rt. ✓

4+00

12' Lt. 5' Rt. ✓

+50

16' Lt. 4' Rt. ✓

3+00

11.5' Lt. 11.5' Rt. ✓

+50

7' Lt. 10' Rt. ✓

2+00

4.3' Lt. 14' Rt. ✓

+50

0.0 18.6 Rt. ✓

1+00

2' Rt. 20' Rt. ✓

+50

5' Rt. 23.4 Rt. ✓

0+00

7' Rt. 26.3 Rt. ✓

+20 L.S. 13'

+40 L.S. 19'

+50 L.S. 26'

+40 L.S. 20'

+50 L.S. 21'

+40 L.S. 20'

+50 L.S. 24'

+51 End G.R. 18.6'

+33 Beg of G.R. 12'

+32.1 End of Br.

+99.8 End of Br.

+99 End of G.R. 12'

+83 G.R. 11.3'

BALD EAGLE LAKE

See Detail on next sheet.

+25 End G.R. 9.5'

+40 G.R. 10'

+50 G.R. 7'

+33 Beg G.R. 12'

+40 F. 60'

+99 End G.R. 12'

+82 Beg G.R. 11.5'

+50 F. 23.8'

+40 F. 24'

+50 F. 28'

+40 F. 34'

+50 F. 36.6'

+40 F. 37'



BRIDGE NOTE

Length 32.0'

Roadway 23.0'

Type - Plank Floor on "I" Beam Stringers

10-12" "I" Beams

2-12" "L" Beams

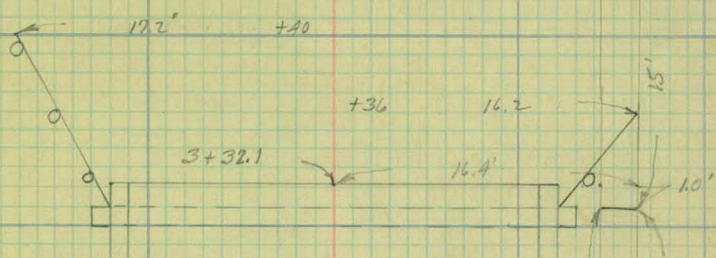
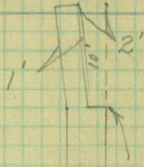
Abutments -

6 Wood Piling in each capped
with 12" x 12" Mudsill & backed
with 2" x 12" Plank

Wings - Plank (2" x 12") backed by
wood piling.

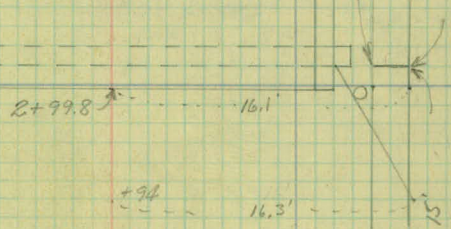
Wheelguards - 4" x 6" Timber

Railing - 4' high - "L" Iron supports &
top & lower rail & latticed with
1/4" x 1" Iron straps between upper
and lower rail

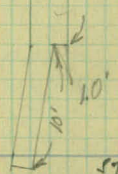


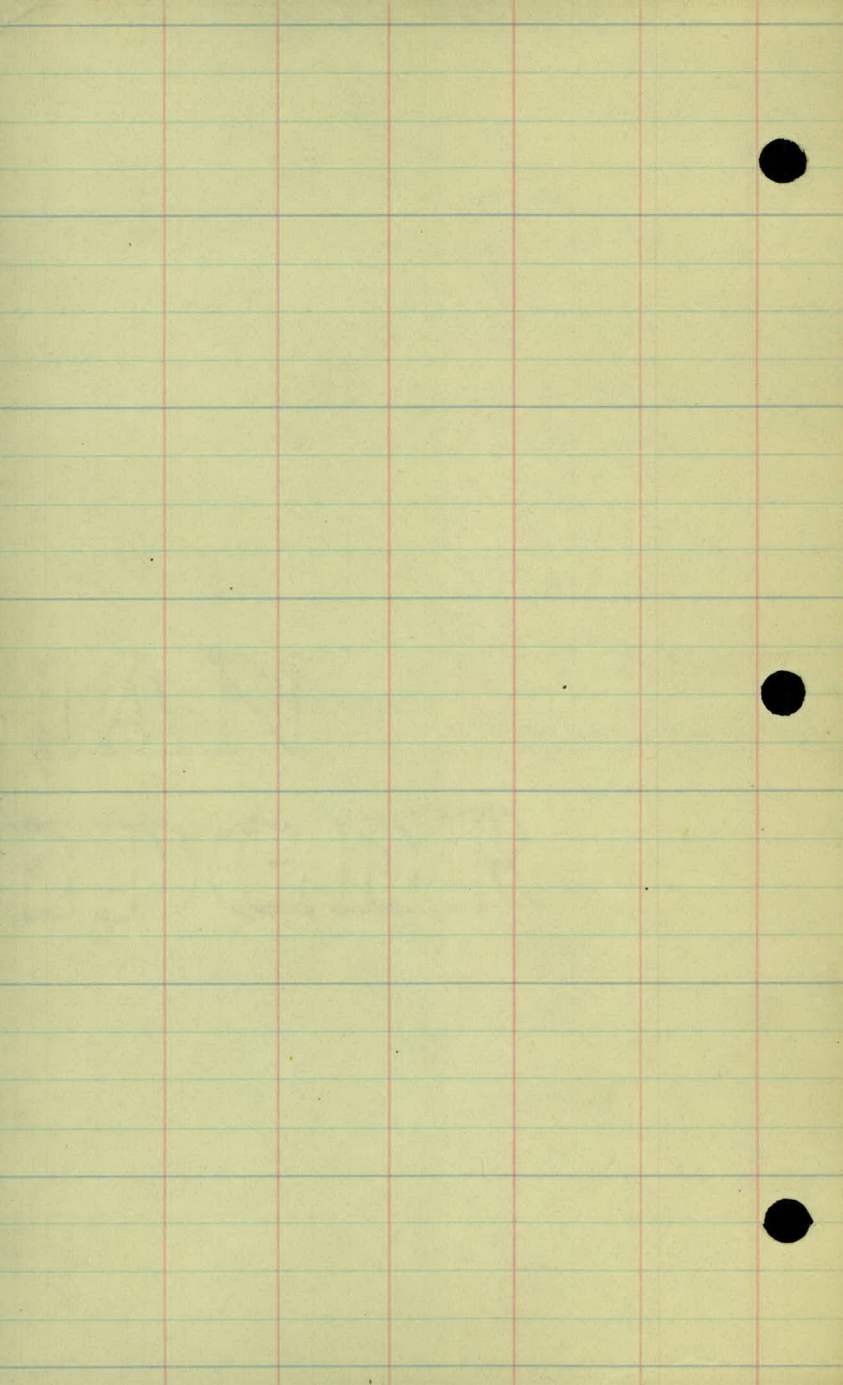
Conc. Spillway Wall
 Overflow Sill is stepped 90°
 lower than balance of wall

30'



Wing Wall in poor
 Condition.





LEVELS FOR SPILLWAY
NO. END OF BALD EAGLE LAKE

At H.R. Petersen 5/22/28

Sta.	B.S.	H.I.	F.S.	Elev.
B.M.	8.04	919.80		911.76
0+00			8.9	
+50			8.8	
1+00			7.8	
+50			7.8	
2+00			7.8	
+50			6.4	
3+00			4.3	
			8.10	
			8.80	
			7.96	
			12.30	
3+32			4.30	
+50			4.4	
4+00			5.3	
+50			5.7	
5+00			5.9	
+50			5.7	
6+00			5.9	
B.M.			5.70	914.10

R.R. Spk. in Wood Piling - N.W. Wing of Br.

30'	20'		20'	30'
11.1	11.1	10.9	12.2	11.9
8.7	8.7	8.9	7.6	7.9
11.2	11.0	11.0	12.0	10.8
8.6	8.8	8.8	7.8	9.0
11.0	11.0	12.0	12.0	11.1
8.8	8.8	7.8	7.8	8.7
11.0	10.9	12.0	10.8	10.2
8.8	8.9	7.8	9.0	9.6
11.0	9.9	12.0	9.2	10.1
8.8	9.9	7.8	10.6	9.7
10.9	10.1	13.4	8.7	10.8
8.9	9.7	6.4	11.1	9.0

E. End of Br. on Floor

Top of Spillway Wall E. end of Sill.

E of Spillway Sill

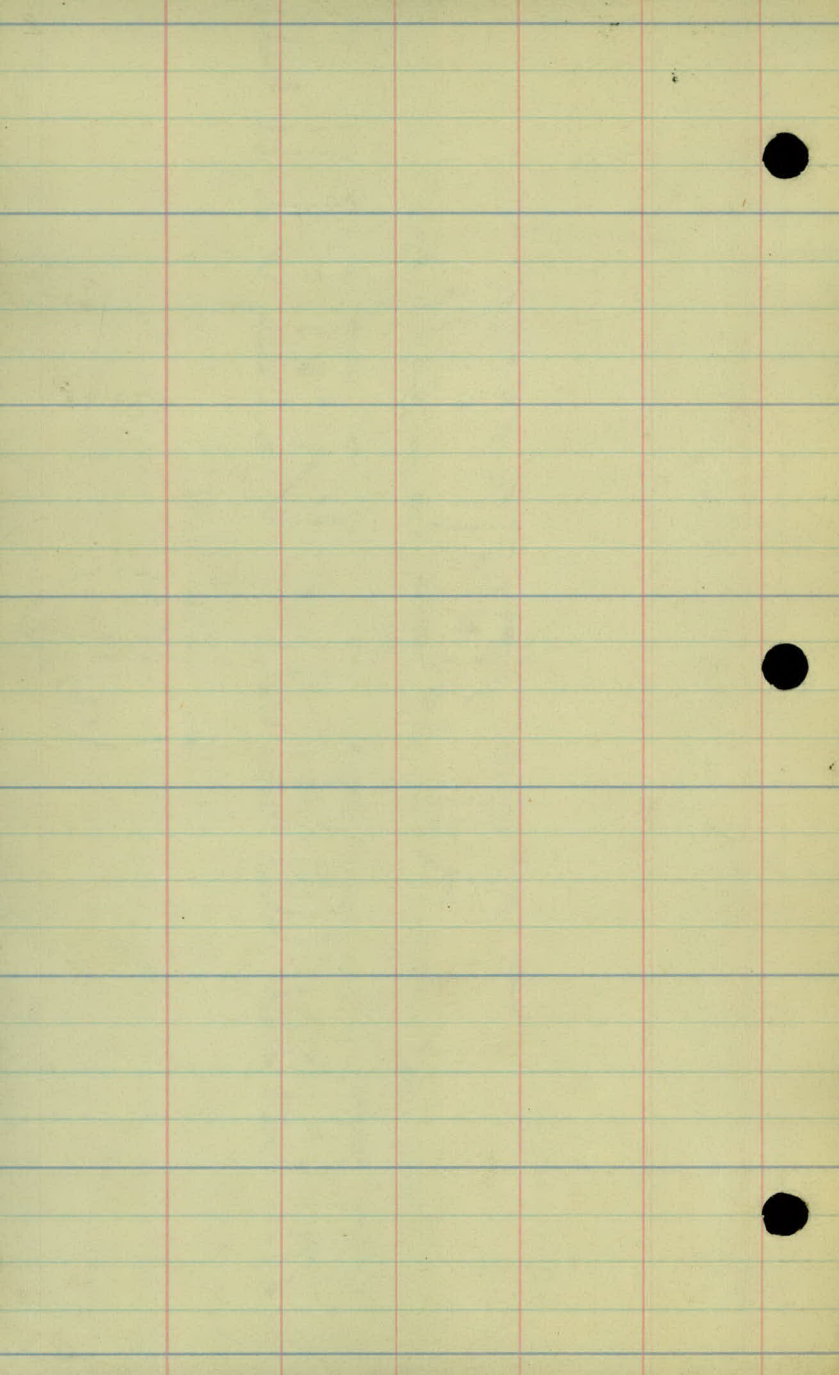
Top of Spillway Wall at W. end of Sill

Bottom of Creek below spillway.

W. end of Br. on Floor

11.3	13.3	15.4	9.2	9.2
8.5	6.5	4.4	10.6	10.6
10.3	11.6	14.5	10.5	10.5
9.5	8.2	5.3	9.3	9.3
10.3	11.7	14.1	10.5	10.6
9.5	8.1	5.7	9.3	9.2
10.0	11.2	13.9	10.9	11.1
9.8	8.6	5.9	8.9	8.7
9.9	12.3	14.1	12.0	11.4
9.9	7.5	5.7	7.8	8.4
9.0	11.0	13.9	12.4	11.6
10.8	8.8	5.9	7.4	8.2

914.10 R.R. Spk. in 18" Tree E. end of Cottage W. of Br.



BALD EAGLE LAKE SPILLWAY
NORTH END.

FLYING LEVELS

From Spillway on West Shore
To " on North Shore

π H.R. Petersen 5/22/28

Flying Levels from W. Spillway to North Spillway on B.E. Lake

Sta.	B.S.	H.I.	F.S.	Elev.
B.M.	8.18	918.88		910.70
Ck. Pt.			3.8	15.1
T.P.	4.36	919.48	3.76	915.12
Check.			4.4	15.1 ✓
Ck. Pt.			0.5	19.0
T.P.	4.24	923.31	0.41	919.07
Check			4.30	19.0 ✓
Ck. Pt.			7.4	15.9
T.P.	3.27	918.33	8.25	915.06
Check			2.3	16.0 ✓
Ck. Pt.			3.2	15.1
T.P.	9.47	924.50	3.30	915.03
Check			9.3	15.2 ✓
Ck. Pt.			0.5	24.0
T.P.	13.22	937.37	0.35	924.15
Check			13.3	24.1 ✓
Ck. Pt.			0.4	37.0
T.P.	13.39	949.71	1.05	936.32
Check			12.9	36.8 ✓
Ck. Pt.			11.1	38.6
T.P.	0.26	938.72	11.25	938.46
Check			0.2	38.5 ✓
T.P.	0.51	925.63	13.60	925.12
B.M.	1.49	920.34	6.78	918.85
Ck. Pt.			1.3	19.0
T.P.	3.47	922.74	1.07	919.27

Sta	B.S.	H.I.	F.S.	Elev.
Check.		922.74	3.6	19.1 ✓
Ck. Pt.			6.9	15.8
T.P.	3.95	919.67	7.02	915.72
Check			3.9	15.8 ✓
Ck. Pt.			5.4	14.3
T.P.	5.80	920.51	4.96	914.71
Check			6.3	14.2 ✓
Ck. Pt.			5.0	15.5
T.P.	4.27	919.30	5.48	915.03
Check			3.9	15.4 ✓
Ck. Pt.			5.9	13.4
T.P.	6.61	920.15	5.76	913.54
Check			6.7	13.5 ✓
			9.16	910.99
B.M.			6.05	914.10
B.M.			8.39	911.76

☐ of Spillway = Water Level on 5/22/28
R.R. Spk. 18" Tree. at E. end of Cottage West of Br.
R.R. Spk. in Pile in N.W. Wing of Br.

