

DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING
SLOPE 1 TO 1. ROADWAY OF ANY WIDTH

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	0
1	1.00	1.10	1.20	1.30	1.40	1.50	1.60	1.70	1.80	1.90	1
2	2.00	2.10	2.20	2.30	2.40	2.50	2.60	2.70	2.80	2.90	2
3	3.00	3.10	3.20	3.30	3.40	3.50	3.60	3.70	3.80	3.90	3
4	4.00	4.10	4.20	4.30	4.40	4.50	4.60	4.70	4.80	4.90	4
5	5.00	5.10	5.20	5.30	5.40	5.50	5.60	5.70	5.80	5.90	5
6	6.00	6.10	6.20	6.30	6.40	6.50	6.60	6.70	6.80	6.90	6
7	7.00	7.10	7.20	7.30	7.40	7.50	7.60	7.70	7.80	7.90	7
8	8.00	8.10	8.20	8.30	8.40	8.50	8.60	8.70	8.80	8.90	8
9	9.00	9.10	9.20	9.30	9.40	9.50	9.60	9.70	9.80	9.90	9
10	10.00	10.10	10.20	10.30	10.40	10.50	10.60	10.70	10.80	10.90	10
11	11.00	11.10	11.20	11.30	11.40	11.50	11.60	11.70	11.80	11.90	11
12	12.00	12.10	12.20	12.30	12.40	12.50	12.60	12.70	12.80	12.90	12
13	13.00	13.10	13.20	13.30	13.40	13.50	13.60	13.70	13.80	13.90	13
14	14.00	14.10	14.20	14.30	14.40	14.50	14.60	14.70	14.80	14.90	14
15	15.00	15.10	15.20	15.30	15.40	15.50	15.60	15.70	15.80	15.90	15
16	16.00	16.10	16.20	16.30	16.40	16.50	16.60	16.70	16.80	16.90	16
17	17.00	17.10	17.20	17.30	17.40	17.50	17.60	17.70	17.80	17.90	17
18	18.00	18.10	18.20	18.30	18.40	18.50	18.60	18.70	18.80	18.90	18
19	19.00	19.10	19.20	19.30	19.40	19.50	19.60	19.70	19.80	19.90	19
20	20.00	20.10	20.20	20.30	20.40	20.50	20.60	20.70	20.80	20.90	20
21	21.00	21.10	21.20	21.30	21.40	21.50	21.60	21.70	21.80	21.90	21
22	22.00	22.10	22.20	22.30	22.40	22.50	22.60	22.70	22.80	22.90	22
23	23.00	23.10	23.20	23.30	23.40	23.50	23.60	23.70	23.80	23.90	23
24	24.00	24.10	24.20	24.30	24.40	24.50	24.60	24.70	24.80	24.90	24
25	25.00	25.10	25.20	25.30	25.40	25.50	25.60	25.70	25.80	25.90	25
26	26.00	26.10	26.20	26.30	26.40	26.50	26.60	26.70	26.80	26.90	26
27	27.00	27.10	27.20	27.30	27.40	27.50	27.60	27.70	27.80	27.90	27
28	28.00	28.10	28.20	28.30	28.40	28.50	28.60	28.70	28.80	28.90	28
29	29.00	29.10	29.20	29.30	29.40	29.50	29.60	29.70	29.80	29.90	29
30	30.00	30.10	30.20	30.30	30.40	30.50	30.60	30.70	30.80	30.90	30
31	31.00	31.10	31.20	31.30	31.40	31.50	31.60	31.70	31.80	31.90	31
32	32.00	32.10	32.20	32.30	32.40	32.50	32.60	32.70	32.80	32.90	32
33	33.00	33.10	33.20	33.30	33.40	33.50	33.60	33.70	33.80	33.90	33
34	34.00	34.10	34.20	34.30	34.40	34.50	34.60	34.70	34.80	34.90	34
35	35.00	35.10	35.20	35.30	35.40	35.50	35.60	35.70	35.80	35.90	35
36	36.00	36.10	36.20	36.30	36.40	36.50	36.60	36.70	36.80	36.90	36
37	37.00	37.10	37.20	37.30	37.40	37.50	37.60	37.70	37.80	37.90	37
38	38.00	38.10	38.20	38.30	38.40	38.50	38.60	38.70	38.80	38.90	38
39	39.00	39.10	39.20	39.30	39.40	39.50	39.60	39.70	39.80	39.90	39
40	40.00	40.10	40.20	40.30	40.40	40.50	40.60	40.70	40.80	40.90	40
41	41.00	41.10	41.20	41.30	41.40	41.50	41.60	41.70	41.80	41.90	41
42	42.00	42.10	42.20	42.30	42.40	42.50	42.60	42.70	42.80	42.90	42
43	43.00	43.10	43.20	43.30	43.40	43.50	43.60	43.70	43.80	43.90	43
44	44.00	44.10	44.20	44.30	44.40	44.50	44.60	44.70	44.80	44.90	44
45	45.00	45.10	45.20	45.30	45.40	45.50	45.60	45.70	45.80	45.90	45
46	46.00	46.10	46.20	46.30	46.40	46.50	46.60	46.70	46.80	46.90	46
47	47.00	47.10	47.20	47.30	47.40	47.50	47.60	47.70	47.80	47.90	47
48	48.00	48.10	48.20	48.30	48.40	48.50	48.60	48.70	48.80	48.90	48
49	49.00	49.10	49.20	49.30	49.40	49.50	49.60	49.70	49.80	49.90	49
50	50.00	50.10	50.20	50.30	50.40	50.50	50.60	50.70	50.80	50.90	50

Distance of slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If ground is nearly level, the cut or fill at side stake is located by the double entry method in left column and top row. The number in body of table in same row and column gives distance from side stake to slope stake. If ground is not level estimate the difference in elevation between the side stake and slope stake, lower target by this amount if cut, elevate if fill. Add this amount to cut or fill and find distance in table. Set up rod at this point, and line of sight should cut target. If it does not make the slight adjustment necessary.

Photos of
Sutherland DAM

1952 - 1954

835-A

MICROFILMED

JAN 10 1965

Pictures S-5 To S-228 Taken by R.A. Bergman.
 " S-229 " " Wm. Krooskos

Roll No.	Picture No.	Date	Description
1	1-4		used by City Office
	S-5	7/22/52	Looking North between But. #14+15
	S-7	"	" " " " #13+12
	S-8	"	" " " " #12+11
	S-9	"	" " " " #14+13
	S-10	"	" " " " #11+10
	S-11	"	" " " " # (West Side) 10+9
	S-12	"	" " " " # (east Side) 10+9
	S-13	7/23	" So. between But #14+15
	S-14	"	" " " " #13+14
	S-15	"	" " " " #12+13
	S-16	"	" " " " #11+12
	S-17	"	" " " " #10+11
	S-18	"	" " " " #9+10
	S-19	7/25	" No. " " #8+7
	S-20	"	" " " " #8+9
	S-21	"	" So. " " #7+8
	S-22	"	" So. " " #8+9
	S-23	7/28/52	Looking UP from foot of But. #10 Southerly Side To show flattening of easterly haunch westerly haunch westerly haunch seems identical

Note rule shows 0.7% rise

Roll No.	Picture No.	Date	Description
	S-24	7/28/52	Looking at right angles to But. #10 at top of additional block of concrete between the two haunches: Note rule shows rise of 1.1 ft. normal to buttress slope
5	S-25	7/28/52	Looking west across block of concrete between haunches at foot buttress #10
	S-26		Looking east across buttress #9 to show notch and irregular spacing of $\frac{5}{8}$ " steel
	S-27		Same as #5-28.
	S-28		Looking up along center of but. 9 toward the north to show notches + $\frac{5}{8}$ " steel.
	S-29		Looking east across but. 9 at notch.
	S-30		Looking west across But. 9 at notch.
6	S-31	7/29/52	Shows white lime stain 30' So. of axis on east face of But #9 near present channel grade
	S-32	"	Shows lime stain 20' So. of middle pilaster on east face of but. #9 near channel grade
	S-33	"	Shows lime stain 35' So. of third pilaster on east face of but. #9 near channel grade
	S-34	"	Looking No. over spillway from 40' So. of 1060 D

Roll No.	Picture No.	Date	Description
6	S-35	7/29/52	Looking west along axis from 1070 D.
	S-36		From 130' so. of 1270 D Looking west over excavation of arch ring foundations.
7	S-37	8/1/52	Spoiled
	S-38	"	From 40' above footing on slope of so. face of but. 11, Looking down on Jct. of arch rings.
	S-39	"	Same as above from But. #12.
	S-40	8/4/52	Looking east along axis of Dam from 2140 D
	S-41	"	Same as S-38 from But #10
	S-42	"	" " " " " #9
8	S-43	8/15/52	From west end of axis Looking north over westerly portions of reservoir.
	S-44	"	From west end of axis Looking over center portion of Reservoir.
	S-45	"	From west end of axis Looking north-east over east portion of reservoir.
	S-46	"	From 160' north of axis Looking at east end of Dam
	S-47	"	From 160' " " " " at center of Dam

Roll No.	Picture No.	Date	Description	
8	S-48	8/15/52	From 160' north of axis Looking at east slope of dam site.	
9	S-49	"	From City office Looking at Center Buttresses.	
	S-50	"	From " " " at west end of Dam.	
	S-51	"	" " " " " Buttresses 3 to 8,	
	S-52	"	" " " " " Spillway.	
	S-53	"	" at east face near So. toe of Buttress #13.	
	S-54	"	" " " " But. #13 bet. The Pilasters.	
	10	S-55	"	" So. but. 10 + 11 before shooting,
		S-56	"	" Steel yard looking north at west end of Dam
		S-57	"	" " " " Northeast at center of Dam
S-58		"	" " " " " at east end of Dam	
S-59		"	" 30' So. of But. #14 looking east along But 8-13.	
S-60		"	" " " " " " over arch ring 8-13.	
11	S-61	8/25/52	" into arch ring 8-9 from 10' So. of But 6-7.	
	S-62	"	" across stream from But. 6-7 showing Temporary earth dam + road.	
	S-63	"	Looking across excavation + toward But. 9 from 75' So. of But. 5.	

Roll No.	Picture No.	Date	Description
11	S-64	8/25/52	Looking into arch ring 8-9 from 50' So. of But. 6-7
	S-65	"	Looking N.E. over Temporary dam & road across stream from 100' So. of But. #10
	S-66	"	Looking No. into Bay 10-11 from So. end Load holes for blasting.
12	S-67	8/27/52	Looking on Northerly strut from Top of But. #10. Note drill holes.
	S-68	"	Same as above.
	S-69	"	" " "
	S-70	"	" " "
	S-71	"	" " "
	S-72	"	Looking No. Toward city office buildings from Top of But. #10
13	S-73	8/27/52	From No. Toe of Buttresses Looking So. up to shattered strut after shooting. Bet. Buttresses #10 & #11.
	S-74	8/28/52	From Arch ring 10-11 looking No. up to shattered strut after shooting.

Roll No.	Picture No.	Date	Description.
13	S-75	8/28/52	From Top of But. #10 looking down on shattered strut after shooting.
	S-76	8/28/52	Same as No. S-75.
	S-77	"	" " " S-75.
	S-78	"	" " " S-75.
14	S-79	9/3/52	From office Looking at explosion of shot in south strut But. #10 to #11.
	S-80	9/4/52	Looking So. Through bay 10-11 at shattered struts after 2 nd shot on No. strut + 1 st shot on So. strut.
	S-81	"	Looking north Through bay 10-11 at shattered struts after shooting
	S-82	"	From steel yard Looking N.E. at But. 9-14 after stripping of old forms.
	S-83	9/5/52	From steel yard Looking east over excavations on east slope of dam site.
15	S-84		From Office Looking over excavations bet. But. ⁷⁻¹
	S-85	9/8/52	From top of But. 9, looking east on arch rings for Buttresses 4-1

Roll No.	Picture No.	Date	Description
15	S-86	9/8/52	Same as S-85
	S-87	"	" " S-85
	S-88	"	From Top of But. 9 looking east over excavations at North ends of But 4-1.
	S-89	"	From Top of But #9 looking along south edge of But. 10 To 14.
	S-90	"	From Top of Buttress 9 looking over But. 10-14 + West end of dam site.
16	S-91	9/17/52	Back side of rear half of Res. Engrs. house
	S-92	"	Front " " " " of house showing section Thru center.
	S-93	"	Back side of front half of R. E.'s house showing section Thru center.
	S-94	9/19/52	Front side of front half of R. E. house on Track.
	S-95	"	Back side of front half of R. E. house showing section Thru center.
	S-96	"	From City Office looking Through But. 12-13 after 1 st shot of north strut.

Roll No.	Picture No.	Date	Description
17	S-97	9/19/52	Looking So. Thru Bay 12-13 at North STRUT after shooting.
	S-98	"	Looking at east end of shot STRUT on But. 12 from north.
	S-99	"	Looking at West end of shot STRUT on But. #13, from north.
	S-100	"	Looking North Thru Bay 12-13 after shooting North STRUT.
	S-101	"	Looking north at West end of north STRUT on But. 13 after shooting.
	S-102	"	Looking north at East end of north STRUT on But. 12 after shooting.
18	S-103	9/23/52	Looking at shot of South STRUT But. 12-13
	S-104	"	From D900 axis Looking along east side of Spillway at drilling operations.
	S-105	"	From L900 on Spillway center Line Looking at drilling operations.
	S-106	"	From L725 on spillway center Line Looking east at rock being drilled.

Roll No.	Picture No.	Date	Description
18	S-107	9/23/52	View of Tractor + rooster working in Spillway
	S-108	"	" " " " " " " " " " " "
19	S-109	10/3/52	Looking down the spillway from axis at D950
	S-110	"	" across Canyon from spillway, shore excavating material Trap on west side of Canyon.
	S-111	"	New 1/2 yd. dragline with 60' boom.
	S-112	"	Looking at excavation of material yard.
	S-113	"	From L925 on center line spillway looking at east side of spillway after 1 st shot.
	S-114	"	From L700 on center line spillway Looking east side after 1 st shot.
20	S-115	10/10/52	From Toe But. 14 looking No. at con- crete mixing plant in course of erection.
	S-116	"	From 40' north of But. 12 looking at concrete mixing during erection
	S-117	"	Looking down on foundation forms of bridge between But. 8-9 from 20' north of But. 10.

Roll No.	Picture No.	Date	Description
	S-118	10/10/52	From But. 9 looking into abutment form showing rock foundation.
	S-119	"	From north end of bridge abutment looking into rock foundation.
	S-120	"	From south end of westerly pier looking into rock foundations.
	S-121	"	From southerly end of easterly pier of bridge looking into forms showing rock foundation.
	S-122	"	From southerly end of easterly bridge abutment looking into forms at rock foundation toward But [#] 8.
	S-123	"	From But. No. 8 looking into forms at rock foundations.
	S-124	"	Looking at mixing plant during erection.
	S-125	10/17/52	Westerly side of reservoir (No. 1 of panoramic)
	S-126	"	Second panoramic view of reservoir from 2130 axis

Roll No.	Picture No.	Date	Description
	S-127	10/17/52	3 rd panoramic of reservoir from axis 2130.
	S-128	"	(Spoiled - double exposure)
	S-129	"	4 th panoramic of reservoir from axis 2130.
	S-130	"	5 th " " " " " 2130.
	S-131	"	From axis 2130 looking over near part of west portion of reservoir.
	S-132	"	From axis 2130 looking over near portion of center of reservoir.
	S-133	10/23/52	South end of pier 4 from top of bank on north.
	S-134	"	North end of pier 4 from top of bank north side.
	S-135	"	Looking at pier 4 from south.
	S-136	"	" " " " " southwest.
	S-137	"	" " " 4 from 50' west of south end.
	S-138	"	" " " City + contractors' camp from L 800 on spillway
	S-139	10/24/52	Looking from south side of faulted rock on east wall of pier 4 excavation
	S-140	"	Looking from north side at faulted rock on east wall of pier 4 excavations.

Roll No.	Picture No.	Date	Description
	S-141	10/24/52	Looking in excavation of North end of Pier 4, excavation from south end.
	S-142	10/28/52	Hydraulic cleaning of rock subgrade in spillway.
	S-143	"	Excavating east side of spillway.
	S-144	"	Hydraulic cleaning of rock subgrade in spillway.
	S-145	10/29/52	Shows porous concrete in steps of cutoff wall But. #12 to #13.
	S-146	"	Porous concrete in But. #12
	S-147	"	" " in cutoff wall But. #11-12.
	S-148	"	View of east abutment of bridge between But. #8 & 9.
	S-149	11/4/52	From Top of south end of But #8 looking at excavation for walls & arches of But. #5 to 1
	S-150	"	Same as No. 149.
	S-151	"	From Top of north end of But 8, looking at north end of excavation for But #5 - #3.
	S-152	"	From Top of But. #8, looking at mixing plant under construction.
	S-153	"	Tunnel for cement belt to Bunker on plant

Roll No.	Picture No.	Date	Description
27	S-154	11/4/52	Mixing plant under construction.
	S-155	11/12/52	Looking No. bet. But. #14 + 15.
	S-156	"	" " " " 13 + 14
	S-157	"	" " " " #12 + 13 (Intrudes from on right)
	S-158	"	" No. bet. but. #11 + 12
	S-159	"	" " " " 10 + 11
	S-160	"	" " " " 9 + 10
28	S-161	11/13/52	Double exposure.
	S-162	"	Looking north at Buttresses 8, 9, 10 from 150' south of Buttress #8.
	S-163	"	Taken 25' N.W. of last flag looking S.S.E. toward Target #1 (taken by D. Leonard)
	S-164	"	same location as S-163 looking S.E. toward Island
	S-165	"	taken from Target #1 looking N.N.W. toward last flag set by King.
	S-166	"	Taken from a point about 1200 ft. west of The Island at about 2030 contour, looking N.E. toward last flag set by King. Difference in elevation between last flag + creek bed to south is 103 ft.

Taken by Don Leonard

Roll No.	Picture No.	Date	Description
29	S-167	11/14/52	Chipping cutoff wall Buttresses #12 - 13
	S-168	"	" of " " finished, buttress #13-#14. Looking down a long wall.
	S-169	"	Looking up cutoff wall, buttress #13-14, after chipping.
	S-170	11/19/52	Showing removal of poor concrete at middle of cutoff Buttress #11-12
(evidently spoiled in developing)	S-171	"	Showing removal of poor concrete at lower 1/3 of cutoff Buttress #11-12
	S-172	11/17/52	Finished removal of poor concrete at Lower 1/3 of cutoff Buttress #11-12
30	S-173	11/19/52	Shows chipped portion of east haunch of Buttress #30.
	S-174	"	Shows chipping operation of Lower But #10.
	S-175	"	" " " " But. #9.
	S-176	"	" " " of Lower But. #8.
	S-177	"	" chipped portion of But. #8.
	S-178	"	" primitive method of raising a Jack hammer to Top of Buttress 8 for chipping.

Roll No.	Picture No.	Date	Description.
31	S-179	11/19/52	From Center of Excavation Buttress #6 looking at North end. Note solid rock bottom from elevation 1925 to 1935 at end.
	S-180	"	Close up of solid rock bottom Elevation 1925 to 1935 B.U.T. #6.
	S-181	"	Looking South at center of excavation B.U.T. #6.
	S-182	"	" " at So. end of excavation for B.U.T. #6.
32	S-183	11/21/52	Looking east along axis of Dam from 2140 D (some as S-40)
	S-184	"	From West end of axis Looking N.E. over east portion of reservoir (same as S-45)
	S-185	"	From 160' north of axis Looking at east end of Dam. (same as S-46)
	S-186	"	From 160' north of axis Looking at center of Dam (same as S-47).
	S-187	"	From 160' north of axis looking at slope of Dam site (same as S-48)

Roll No.	Picture No.	Date	Description.
32	S-188	11/21/52	Diamond drill rig drilling hole 7C2 in But. #7
33	S-189	11/23/52	Looking North Bet. But. 8+9 (S-20).
	S-190	"	" " " " 7+8 (S-19).
	S-191	"	" South " " 7+8 (S-21).
	S-192	"	" " " " 8+9 (S-22).
	S-193	"	" " " " 8+9 Through bridge from 125' So. of Buttress.
	S-194	"	Looking south over Buttress 7.
34	S-195	11/28/52	From City Office looking at Center Buttresses (S-49)
	S-196	"	From City Office looking at west end of Dam (S-50).
	S-197	"	From City Office " " But 3 to 8 (S-51).
	S-198	"	From " " " " Spillway (S-52)
	S-199	"	Looking So. Bet. But. 14+15 (S-13)
	S-200	"	" " " " 13+14 (S-14)
35	S-201	12/2/52	" " " " 12+13 (S-15)
	S-202	"	" " " " 11+12 (S-16)

Roll No.	Picture No.	Date	Description.	(S17)
35	S-203	12/2/52	Looking South Bet. But. 10 + 11 from road	
	S-204	"	" " " " 9 + 10 " "	(S-18)
	S-205	"	" " " " 8 + 9 " bridge	(S-22)
	S-206	"	" " " " 7 + 8 from road	(S-21)
36	S-207	12/3/52	Frame work of 1 st section of form for Intradors But. 9 + 10.	
	S-208	"	Placing 1 st section But. #7 form-north from Pilaster #3.	
	S-209	"	From 40' above footing on slope of south face of But. #11, looking down on Junction of arch rings	(S-38)
	S-210	"	Looking up along center line of But. #9, toward the north to show noches and 5/8" steel.	(S-28)
	S-211	"	Looking north over spillway from 1060.D	(S-34)
	S-212	"	Bucyrus Crane raising West Tower (73' high)	
37	S-213	12/4/52	Looking up cutoff wall 10-11 at outlet before shooting.	

Roll No.	Picture No.	Date	Description.
37	S-214	12/4/52	Looking down cutoff wall 10-11 at outlet before shooting.
	S-215	"	Close up looking up cutoff wall at outlet.
	S-216	"	" " " down " " " "
	S-217	12/5/52	Looking into But. #6 excavation from South end. Gericke, Beermann, Rankin, Ley et al inspecting foundation.
	S-218	"	In distance looking at raising east tower from mixing plant.
38	S-219	"	Boyrus Crane raising 105 foot east tower of highline.
	S-220	"	Spoiled
	S-221	"	Looking south over buttress #7 at placing of lower forms.
	S-222	12/6/52	CITY Buildings
	S-223	"	From 180' South of 1270 D looking west over excavations of Arch ring foundations (S-36).
	S-224	"	From South of Bay 7-8 looking over Arch rings to But. 15.

Pictures Beginning # S-229

Taken by Wm. S. Krooskos

Roll No.	Picture No	Date	Description.
40	S-225		View of Intrado forms
	S-226		Showing old construction chipped-face of Buttress.
	S-227		Stanley Bent, Charles Milburn +
	S-228		H. Serriche-p, Bernmann + Prof. Brooks.
	S-229	12/24/52	Looking down cutoff wall 10-11 at outlet (same as S-214)
	S-230	"	Looking up cutoff wall 10-11 at outlet (same as S-213)
41	S-231	"	From L-1110.5, Looking north at steel reinforcement in But. No. 7 before 1 st pour.
	S-232	"	From L-958.00 looking south at steel reinforcement in But. #7 before 1 st pour.

Taken by Kirostros To S-236

" " Hogland From S-237

Roll No.	Picture No.	Date	Description
41 ↓ →	S-234	12/24/52	From edge of construction road (L-900) looking south of steel reinforcement But. #7 before 1 st Pour.
	S-233	"	From West face Pilaster #3 of But. #7 looking east at Pilaster steel reinforcement before 1 st Pour
41	S-236	"	From L-1080, inside But. No. 7 looking north at steel reinforcing mat between Step I + II
	S-235 (spoiled)		
42 ↓	S-237	1/7/53	Taken from down stream top of Buttress #8 looking south. showing flood condition if #3
	S-238	1/7/53	Taken from up stream top of Buttress #8 showing flood condition

Taken by Kropkas To 242
" " Haagland From 243

Roll No	Picture No	Date	Description
42	239	1/7/53	Taken from up stream top of Buttress #8 showing Buttress #7 stripped
42	240	1/7/53	Taken from ground looking N.E at Buttress #7 after stripping
42	241	1-15-53	Unloading chutes and stockpiles for aggregates
42	242	1-15-53	Stockpiles and loading hopper for direct loading from trucks to plant storage bins
43	S-249 [✓]	1-16-53	Looking west in east section ogee cutoff showing vertical steel in south edge.
"	S-250 [✓]	1-16-53	Looking North at excavation in spillway floor. Mr. Foster, Melburn, Lambert and Soyster
"	S-251 [✓]	1/23/53	Pier 4 Buttress 1 excavation from O.G. at haunch

Taken by Bergman To S-248
" " Hoagland From 252-53-54

Roll No. Picture No. Date
255-256

39 S-252^v 1/23/53

" S-253^v "

" S-254^v "

~~39~~ 39 S-243^v December 14 to 22

" S-244^v "

" S-245^v "

" S-246^v "

" S-247^v "

" S-248^v "

44 S-255^v 1/23/53

S-256^v "

Description.

Rubber stop & key way in West Bulkhead spillway cutoff excavation

Rubber stop & key way in East ^{section} Bulkhead spillway cutoff excavation

From East end of spillway cutoff excavation showing 2" grout pipes & bottom

Looking south from engineers office at Sky hook testing sky hook

Looking west; beginning of arch-intradisform construction from Buttress 9 to 14

Buttress #7 looking north prior to placing inside ^{of steel} & 1st pour of concrete

Looking north at outlet pipes between Buttresses 10-11

From north end of Buttress #7 looking south at form work prior to placing steel & 1st pour

From engineers' office looking at dam concrete Basin; also sky hook in 1st test operation

From middle of the East section of the spillway cutoff looking East showing 2" grout pipe & bottom

Same as S-255 looking West

Taken By R.W. Hoagland

Roll No.	Picture No.	Date	Description
44	S-257 ✓	1/23/53	From The S.E. Corner of Spillway looking West - spillway floor excavation.
	S-258 ✓	"	Same as - 257 but looking North
	S-259 ✓	"	from ^{spillway} S.W. corner Looking North - Spillway floor excavation
	S-260 ✓	"	From S.W. corner Spillway Looking East - Spillway floor excavation.
#45	S-261 ✓	"	From Middle ^{of} East edge ^{of} Spillway floor excavation looking southwest
	S-262 ✓	"	Same as S-261 " North West
	S-263 ✓	"	" " S-261 " Due West
	S-264 ✓	"	Buttress #1 Pier 4 excavation from center of East edge

Taken by R. W. Hoagland

Roll No.	Picture No.	Date	Description
45	S-265 ✓	1/23/53	Buttress #6 excavation from West side looking North
	S-266 ✓	"	From south end of Buttress #6 looking North.
46	S-267 ✓	"	Buttress #6 excavation looking down from east side - South end. Spilled double tip
46	S-268 ✓	"	Buttress 8 in foreground - Contractors' Skyhook. Taken from south end of Buttress #6 looking West showing InTrados arch forms 9-10, 10-11, 11-12, 12-13, 13-14
46	S-269 ✓	"	Buttress #8 in the foreground also showing Contractors' Skyhook placing wooden stakes on face of South end Buttress #6 looking North from south end of excavation.
46	S-270 ✓	"	Same place as 269 showing central portion also showing Contractors' crew cleaning up minor cave in from East side of central excavation

Roll No.	Picture No.	Date	Description
46	S-2 71 ✓	1/23/53	Taken from west side of central portion Buttress #6 excavation Looking East showing site of minor slide
46	272 ✓	"	Midway between South end of Buttress 6 + 7 looking North showing Buttress #7 + water both cure of pour #2 (Jan. 20/53) To elevation 1940
47	273	1-27-53	In spillway <u>floor</u> , Mr Bendelow has his finger pointing to finish concrete grade on 6' rule, bottom of which is resting on base of powder hole made at this location
47	274	1/28/53	Same as 273
47	275	1/28/53	Buttress #1 as of to-date Looking North
47	276	1/28/53	Buttress #2 as of to day Looking North

Taken by J.J. De Vorské

ROLL

Pict. No

Date

Description

48

S-277

1/30/53

Pouring foundation buttress #6
standing downstream looking upstream

48

278

1/30/53

upstream end of buttress #6
showing re-steel

48

279

2/2/53

up stream face of buttresses
14 to 8' Looking N.E.

48

280

2/2/53

up stream face of buttress #14
shown from Reservoir Area

48

281

2/2/53

looking downstream at buttress
#6 showing bulkhead and first
pour.

48

282

2/2/53

showing upstream faces of buttresses
8 to 14 Looking N.W.

Taken by J J Le Vorse

Roll No	Pict No	Date	Description
#49	S-283	2/2/53	Location of buttress #5 - looking down stream, before excavation
49	284	2/2/53	showing excavation for buttress #4 looking down stream
49	285	2/2/53	showing excavation for buttress #3 looking down stream
49	286	2/2/53	showing excavation for buttress #2 looking down stream
49	287	2/2/53	showing excavation for buttress #1 looking down stream
49	288	2/2/53	showing excavation for Arch ring between buttresses #1 & #2 looking West

Taken by Dick Hoagland

Roll No	Pict No	Date	Description
50	S-289	2/2/53	West end east section spillway cutoff, showing 6" rubber waterstop and 2"x12"x12" checker board keys.
50	290	2/2/53	Buttress #7 from upstream end
50	291	2/2/53	Rect. Strut #13-#14
50	292	2/4/53	From Top of But. #9 (elevation 2030) looking east
50	293	"	" " " "
50	294	2-6-53	From west showing existing condition of Arch cutoff excavation 6-7.
51	295	2-19-53	West side of haunch on Butt #9 showing hooks doweled in face prior to pouring arch 9-10
51	296	2-24-53	Arch 9-10, showing forms, steel and new hooks doweled into
51	297	"	buttress #9
51	298	"	"
51	299	"	"
51	300	"	"
52	301-2-3-4-5-6	2/25/53	Gay Bro Concrete Bucket
53	307-8-9-10-11-12	"	" " " "

<u>Roll #</u>	<u>Picture #</u>	<u>Date</u>	<u>Description</u>	<u>Photographed by</u>
54,,	S-313	3-2-53	Slide due to rain in Butt #1 excavation	R.W. Hoagland
54	314	"	Looking west from upstream end Butt 1	"
54	315	"	Showing snow on Peak North of Job	"
54	316	"	Same as Picture # 313	"
54,,	317	"	Butt 13-14 and rect Strut between conc. 20 days old	"
54.	318	"	Looking east showing aftermath of 1.86" rain, hail and snow weekend of 3-1-53	"
55	319	3-4-53	Arch 9-10 after stripping	"
55	320	"	" " " "	"
55	321	"	" " " "	"
55	322	"	Forming Butt 7 haunch	"
55	323	"	Butt #1, Pier 4 exc.	"
56	324	"	Pier 1 exc	"

Roll #	Picture #	Date	Description	Photographed by
56	S-325	3-10-53	From top looking down Top Butt 8 Eastside	R.W. Hoagland
56	326	"	" " " West "	"
56	327	"	" " 9 East "	"
56	328	"	" " " West "	"
56	329	"	" " 10 East "	"
56	330	"	" " " West "	"
57	331	"	" " 11 East "	"
57	332	"	" " " West "	"
57	333	"	" " 12 East "	"
57	334	"	" " " West "	"
58	335	"	" " 13 East "	"
58	336	"	" " " West "	"
58	337	"	" " 14 East "	"
58	338	"	" " " West "	"
58	339	"	Chipping Butt 7 Just head stripped	"
58	340	"	From head Butt 7 looking West	"
58	341	"	Arch cutoff exc. 6-7	"
58	342	"	Placing steel above elec 1928 Butt 7	"

<u>Roll #</u>	<u>Picture #</u>	<u>Date</u>	<u>Description</u>	<u>Photographed by</u>
59	S-343	3-12-53	In spillway showing over drilled powder hole, near east section cutoff.	R.W.H.
59	344	3-20-53	From south end of spillway, center	R.W.H.
59	345	" "	looking N.E.	"
59	346	" "	looking N	"
59	347	" "	looking N.W.	"
59	348	" "	Arch 9-10	"
60	349	3-26-53	Spillway from center of cutoff looking N.E.	"
60	350	" "	" " " " "	"
60	351	" "	" " " N " "	"
60	352	" "	" " " N.W. " "	"
60	353	" "	Pier 4, Butt #1 excavation from upstream	"
60	354	" "	Arch 1-2 excavation from head Butt # 2	"
60	354	" "	Butt # 2 excavation from head Butt # 2	"

<u>Roll #</u>	<u>Picture #</u>	<u>Date</u>	<u>Description</u>	<u>Photographed by</u>
61	S-355	3-26-53	Butt #3 excavation	R.W. Hoagland
61	356	"	Butt #4 excavation	"
61	357	"	Butt #5 excavation	"
61	358	"	Butt #6 excavation	"
61	359	"	Butt #7 and part of arch 7-8 form	"
61	360	"	Butt #8 " "	"
62	361	"	From head Butt 7 showing Pour for 3-27-53 to Feb 1952 (before Pour)	"
62	362		Arch 9-10	"
62	363		Arch 10-11	"
62	364		Buttresses 13 & 14	"
62	365		Curing Arch 11-12	"
62	366		Extrados Forms	"
63	367	4/13/53	BUTTRESS #4 EXCAVATION AFTER WASHING DOWN SHOWING ROCK FORMATION	H.E. BROWN
63	368	"	"	"
63	369	"	"	"
63	370	"	"	"
63	371	"	LOOKING NO. BUTTRESS 7 & 8	"
63	372	"	LOOKING NO. BUTTRESS 9 & 10	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
64	S-373	4/13/53	ARCH 10-11 SAWING TRASH RACK & BUTT #11	H.E. BROWN
64	374	"	LOOKING NO. BUTT. 12 & 13	"
64	375	"	LOOKING NO. BUTT. #14	"
64	376	"	LOOKING NO. BUTT. #15	"
64	377	"	PROGRESS PHOTO LOOKING NORTH BUTT. 11-15	"
64	378	"	PROGRESS PHOTO LOOKING NORTH BUTT 7-10	"
65	379	4/22/53	STEEL BUTT HEAD #6 CUTOFF ARCH 6-7 & 5-6	"
65	380	"	STEEL & ROCK BUTT #6 UP STREAM END	"
65	381	"	STEEL & ROCK CUTOFF ARCH 5-6	"
65	382	"	ROCK IN CUTOFF ARCH 6-7	"
65	383	"	STEEL & ROCK CUTOFF ARCH 6-7	"
65	384	"	FLOOR ROCK & STEEL CUTOFF ARCH 6-7	"
66	385 to 390	4/22/53	CRANE AFTER BOOM WENT OVER CAB	"
67	391	4-27-53	Clean out of downstream end of Buttress #5	N.G. Neg BLANK Lloyd Eugene Sanders
67	392	"	N.G. Neg. BLANK	" " "
67	393	"	" " north	" " "
67	394	"	" " south	" " "
67	395	"	" " north	" " "
67	396	"	N.G. Neg. BLANK	" " "

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
68	S-397	4/29/53	STEEL & ROCK ARCH CUTOFF 1-2	HE BROWN
68	398	"	"	"
68	399	"	"	"
68	400	"	"	"
68	401	"	POURING CONC. ARCH CUTOFF 1-2	"
68	402	"	"	"
69	409	4/30/53	BUTT #1 EXCAVATION LOOKING NORTH	"
69	410	"	CUTOFF EXCAVATION 1-2 LOOKING EAST	"
69	411	"	BUTT #2 EXCAVATION LOOKING NORTH	"
69	412	"	Do. LOOKING SOUTH	"
69	413	"	UPSTREAM END BUTT #2 EXCAVATION LOOKING NORTH	"
69	414	"	CUTOFF 2-3 EXCAVATION LOOKING EAST	"
70	403	"	BUTTRESS #3 EXCIV. LOOKING SOUTH	"
70	404	"	Do LOOKING NORTH	"
70	405	"	CUTOFF 3-4 EXCIV. LOOKING WEST	"
70	406	"	BUTT #4 EXCIV. LOOKING SOUTH	"
70	407	"	CUTOFF 3-4 EXCIV. AFTER SHOT LOOKING EAST	"
70	408	"	BUTT #5 EXCIV. LOOKING SOUTH	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
71	S-415	5/1/53	TOP OF ARCH 11-12 SHOWING CONC. POUR OF 4/29/53 SEC. NEAR ♀	H E BROWN
71	416	"	SAME TAKEN NEAR BUTT 12	"
71	417	"	PORTION NEAR BUTT 11 SHOWING UNCUT SECTION	"
71	418	"	PORTION NEAR BUTT 12 SHOWING UNCUT SECTION	"
71	419	"	PORTION EAST OF ♀ AFTER CUTTING WITH H ₂ O	"
71	420	"	SAME AS PICTURE 418 AFTER CUTTING WITH H ₂ O	"

NOTE: PICTURES 415-420 INC. SHOWS
AN ARCH THAT WAS POURED 48 HRS
BEFORE THIS CUTTING TOOK PLACE

72	421	5/4/53	PROGRESS PHOTOS BUTT 11-15 INC. ✓ PROGRESS	H E BROWN
72	422	"	BUTT 7-10 INC. ✓	"
72	423	"	FROM SPILLWAY LOOKING WEST BUTT 7-15 INC. PROGRESS	"
72	424	"	FORMS, ROCK & STEEL PIER #1 SPILLWAY ✓	"
72	425	5/5/53	ROCK & STEEL UPSTREAM END BUTT #6	"
72	426	"	"	"
73	427	5/8/53	COMPLETED SECTION DRAINS & ROCK - SPILLWAY	H E BROWN
73	428	"	PLACING ROCK IN DRAIN AREAS SPILLWAY	"
73	429	"	POURING CONC BUTT #1	"
73	430	"	REMOVING ROCK FROM BUTT #4 EXCAVATION	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
73	S-431	5/8/53	DRILLING DOWEL HOLES CUTOFF 5-6	H E BROWN
73	432	"	DRILLING DOWEL HOLES FOR ADDITIONAL HOOK BARS UNSYMMETRICAL ARCH SECTION (BUTT #7)	"
74	433	"	FORMING & PLACE STEEL BUTT HEAD #6	"
74	434	"	CLEANING TOP ARCH CUTOFF 8-9	"
74	435	5/13/53	BUTT #5 EXCAVATION FROM UPSTREAM END	"
74	436	"	PROGRESS PHOTO BUTT 7-10	"
74	437	"	PROGRESS PHOTO BUTT 1-3	"
74	438	"	PROGRESS PHOTO BUTT 11-15	"
75	439	5/18/53	PROGRESS PHOTO BUTT 11-15	"
75	440	"	PROGRESS PHOTO BUTT 6-10	"
75	441	"	BUTT 1 & PIER 4 LOOKING NORTH	"
75	442	"	PROGRESS PHOTO BUTT 7-15 LOOKING WEST	"
75	443	"	PROGRESS PHOTO BUTT 15 - PIER 1 SPILLWAY LOOKING EAST	"
75	444	"	PROGRESS PHOTO LOOKING NORTH SHOWING COMPLETE STRUCTURE	"
76	445	5/29/53	LOOKING EAST FROM BUTT HEAD #4 SHOWING STEEL & BULK HEAD CUTOFF	"
76	446	"	LOOKING WEST FROM BUTT #4 SHOWING STEEL IN CUTOFF	"
76	447	"	LOOKING NORTH SHOWING STEEL & ROCK BUTT. HEAD #4	"
76	448	"	LOOKING SOUTH SHOWING STEEL & ROCK BUTT. HEAD #4	"
76	449	"	LOOKING NORTH SHOWING STEEL & ROCK 60' NORTH BUTT HEAD #4	"
76	450	"	LOOKING SOUTH SHOWING STEEL IN FORWARD FOREIGN BUTT #4	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
77	S-451	6/3/53	PROGRESS PHOTO - LOOKING NORTH SHOWING COMPLETE DAM	H.E. BROWN
77	452	"	PROGRESS PHOTO PART C. BUTT 15-12	"
77	453	"	PROGRESS PHOTO PART B BUTT 12-B	"
77	454	"	PROGRESS PHOTO PART A BUTT 8-SPILLWAY	"
77	455	"	PROGRESS PHOTO BUTT 10-6	"
77	456	"	DOWN STREAM END I BEAM PIER 1 SPILLWAY.	"
78	457	6/11/53	STEEL & ROCK CUTOFF BUTT 3 EAST TO "M" LINE	"
78	458	6/11/53	STEEL & ROCK BUTT 3 BELOW 1979	"
78	459	"	do	"
78	460	"	STEEL & ROCK CUTOFF 3-4	"
78	461	6/19/53	DRILLING GROUT HOLES SPILLWAY CUTOFF	"
78	462	"	FILLING UPSTREAM SIDE ARCHES 7-8 TO 9-10	"
79	463	"	FILLING UPSTREAM SIDE ARCHES 7-8 TO 9-10	"
79	464	"	ROCK TO BE REMOVED EAST HAUNCH BUTT 3	"
79	465	"	ROCK DOWNSTREAM END BUTT 2	"
79	466	"	ROCK MIDDLE SECTION BUTT 2	"
79	467	"	HEAD STEEL & ROCK BUTT 2	"
79	468	6/24/53	STEEL & ROCK ARCH CUTOFF 2-3	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
80	S-469	6/24/53	STEEL & ROCK ARCH CUTOFF 2-3	HE BROWN
80	470	"	Do	"
80	471	"	Do	"
80	472	6/26/53	ARCH 5-6 BELOW 1940 SHOWING WAVES IN CONC. INTRADOS FORM	"
80	473	"	ARCH 3-4 (CORRUGATED IRON)	"
80	474	"	Do	"
81	475	7/21/53	SPILLWAY SLAB #5 SHOWING ROCK & STEEL	"
81	476	"	PIER #4 SPILLWAY PROGRESS	"
81	477	"	BUTT 4 TO 8 INCL. PROGRESS	"
81	478	"	BUTT 8 TO 13 INCL PROGRESS	"
81	479	"	PART C, B, & A PROGRESS PANORAMA UPSTREAM SIDE OF DAM BUTT 15 TO PIER 1 SPILLWAY	"
81	480	"		"
82	481	"		"
82	482	7/29/53	ARCH #5-6 SHOWING ROCK & FORM (INTRADOS)	"
82	483	"	Do	"
82	484	"	Do.	"
82	485	"	Do.	"
82	486	"	LOOKING WEST UPSTREAM SIDE ARCH 8-9 TO 14-15	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
83	S-487	8-13-53	BEFORE EXCAVATION BUTT 10 (PROGRESS)	HE BROWN
83	488	"	BEFORE EXCAVATION BUTT 17 (PROGRESS)	"
83	489	"	BEFORE EXCAVATION BUTT 16 (PROGRESS)	"
83	490	"	DRILLING HIGH ROCK ARCH 4-5	"
83	491	"	DO.	"
83	492	"	FORMING ARCH 3-4	"
84	493	"	PROGRESS BUTT 1 PIER 4	"
	494	"	FORMS ARCH 1-2	"
	495 (missing)	"	STEEL - SPILLWAY WALL	"
	496	"	FORMS - SPILLWAY WALL	"
	497	"	ROCK SPILLWAY SLAB SECTIONS 16-19 INC.	"
84	498	"	SETTING CONC. DRAIN PIPE - SPILLWAY SECT. 16-19 INC.	"
85	499	"	BOOM & FORM ARCH 5-6 AFTER SMASHING	"
	500	"	DO	"
	501	"	DO	"
	502	"	DO	"
	503	"	DO	"
	504	"	DO	"

Roll #	Picture #	DATE	DESCRIPTION	PHOTOGRAPHED BY
86	S-505	8-26-53	BUTTRESS 16, 17, 18 - FOUND. EXCAVATION - LOOKING NORTH	H. G. HICKEY
86	506	8-26-53	BUTTRESS 16, 17, 18 - FOUND. EXC. - LOOKING WEST	"
86	507	8-26-53	BUTTRESS 16, 17, 18 - FOUND. EXC. LOOKING WEST S.-WEST	"
86	508	8-26-53	BUTTRESS 16, 17, 18 - FOUND EXC. LOOKING NORTH E. NORTH	"
86	509	8-26-53	GENERAL VIEW OF UPSTREAM SIDE OF DAM - LOOKING E.N.E.	"
86	510	8-26-53	EXCAVATION FOR BUTTRESS 16, 17, 18 LOOKING WEST FROM Hook	"
87	511	8-26-53	GENERAL VIEW OF EAST SIDE OF DAM - TAKEN FROM OFFICE PORCH	"
87	512	8-26-53	GENERAL VIEW OF WEST SIDE OF DAM - TAKEN FROM OFFICE PORCH	"
87	513	8-26-53	POURING ARCH #3-#4 LOOKING WEST	"
87	514	8-26-53	SPILLWAY CREST TAKEN FROM PIER #4	"
87	515	8-26-53	BUTTRESSES LOOKING WEST FROM TOP OF PIER #4	"
87	516	8-26-53	SPILLWAY WALLS LOOKING EAST FROM PIER #4	"
88	517	8-27-53	GENERAL VIEW OF DAM LOOKING WEST FROM TOP OF HILL NEAR PIER #1	"
88	518	8-27-53	PIER #4 - UPSTREAM VIEW LOOKING NORTH	"
88	519	8-27-53	POURING BUTT. #5 - STANDING SOUTH OF BUTT. #2 LOOKING N.W.	"
88	520	8-27-53	ARCH #3-#4 - STANDING SOUTH OF BUTT. #2 LOOKING W. N.W.	"
88	521	8-27-53	PIER #4 & BUTT. #1 - STANDING SOUTH OF BUTT. #2 LOOKING NORTH EAST	"
88	522	8-27-53	ARCH #1-#2 LOOKING N.E.N. FROM CLIFF SOUTH OF BUTT. #2	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
89	5-523	8-27-53	ARCH #2-3 LOOKING N.E. FROM MOUND S. OF ARCH 3-4	H. HICKEY
89	524		FORMS ON ARCH #4-#5 LOOKING W.N.W. FROM POSITION SOUTH OF BUTT. #3	"
89	525		ARCH 5-6 LOOKING W.N.W. STANDING SOUTH OF BUTT. #4	"
89	526		POURING BUTT. #5- STANDING S. OF BUTT #4 LOOKING N.W.N.	"
89	527		S. SIDE OF BUTT. #9, 10, 11, #12 STANDING S. OF ARCH. 10-11 LOOKING NORTH	"
89	528	8-27-53	CRANE PUTTING FORMS ON ARCH 7-8 - ALSO SETTING STEEL IN ARCH 8-9. TAKEN FROM SPOT 100' SOUTH OF BUTTRESS #10 LOOKING N.E.	H. HICKEY "
90	529	9-3-53	Ogee - LOOKING WEST FROM CENTER OF SPILLWAY	H. HICKEY
90	530		Ogee FOUNDATION - AT ABOUT D-890 - LOOKING SOUTH	"
90	531		CARPENTERS WORKING ON ARCH 2-3 LOOKING WEST	"
90	532		PARTIAL ARCH 2-3 @ BUTT. #2 LOOKING SW	"
90	533		LOOKING DOWN BUTT. #3 AT ARCH 3-4	"
90	534		POURING BUTT. #4 - LOOKING WEST FROM BUTT #3	"
91	535		POURING HEAD OF BUTT. #4	"
91	536		VIBRATING CONC. IN TOP OF BUTT. #4	"
91	537	9-3-53	LIFTING INTRADOS FORM ON ARCH 6-7 TAKEN FROM ARCH 5-6 LOOKING WEST	H. HICKEY

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
91	538	9-3-53	CLEANING OUT ARCH 5-6 TAKEN FROM ABOVE	H. HICKEY
91	539		EXCAVATION FOR ARCH 15-16 CUTOFF WALL - LOOKING N.W. FROM SPOT SOUTH OF ARCH 15-16	"
91	540	9-3-53	EXC. FOR ARCH 15-16 CUTOFF WALL - LOOKING N.	"
92	541		GRAVITY SECT. EXCAVATION LOOKING N.W.	"
92	542		GRAVITY SECT. EXCAVATION LOOKING N.W. STANDING 80' SOUTH OF BUTT. #17	"
92	543	9-3-53	GENERAL UPSTREAM VIEW OF DAM LOOKING E.N.E.	"
92	544		LOOKING S.W. DOWN INTO GRAVITY SECT. FOUND. TAKEN FROM SPOT 40' N.W. OF BUTT. #17	"
92	545		GRAVITY EXC. - BUTT. #17 IS OUTLINED IN CHALK ON GROUND. TAKEN FROM TOP OF BUTT. #15	"
92	546	9-3-53	STANDING S. OF BUTT. #17 LOOKING N.W. AT CRACK IN SIDE OF GRAVITY SECT. EXCAVATION	H. HICKEY (STANDING ON S. NEAT LINE)
93	547	9-3-53	LOOKING N. AT BUTT 18 EXCAVATION SHOWING COLLAPSED W. BANK.	N. NEAT LINE STAKE SHOWN
93	548	9-3-53	LOOKING S. AT BUTT 18 EXCAVATION STANDING ON N. NEAT LINE	N. S. NEAT LINE STAKE SHOWN
93	549	9-3-53	LOOKING W. AT COLLAPSED W. BANK BUTT 18	
93	550	9-3-53	LOOKING N.W. AT W. BANK BUTT 18	

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
93	551	9-8-53	HOLE IN SEC. V-8 OF W. SPILLWAY RETAINING WALL LOOKING WSW	H. HICKEY
93	552	9-8-53	HOLES IN SEC. V-8 SEC. V-9 W. SPILLWAY RETAINING WALL LOOKING N.W.	H. HICKEY
94	553	9-9-53	POURING OGEE - AREA ABOUT 35' W. OF PIER #1 LOOKING WSW	H. HICKEY
94	554	9-9-53	POURING OGEE - AREA ABOUT 35' W. OF PIER #1 LOOKING S.E.	"
94	555	9-9-53	STANDING UNDER OGEE AT SPOT 120' W. OF PIER #1 - LOOKING AT OGEE POUR	"
94	556	9-9-53	AREA 35' W. OF PIER #1 OF OGEE BEING TRAMPLED INTO PLACE BECAUSE VIBRATORS BROKE DOWN. LOOKING WSW	"
94	557	9-10-53	SPILLWAY WEIR BEING CHIPPED OUT TO RE POUR LOOKING S.W.	H. HICKEY
94	558	9-10-53	OGEE - LOOKING EAST FROM STAIRWAY LANDING ON PIER #4	H. HICKEY
95	559	9-10-53	ROCK POCKETS IN ARCH #2-3 ON EAST FACE JUST ABOVE CUTOFF WALL LOOKING N.W.	"
95	560	9-10-53	ROCK POCKETS IN ARCH #2-3 ON EAST FACE LOOKING N.W AND DOWN	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
95	561	9-10-53	GENERAL VIEW OF WEST 2/3 OF DAM. STANDING 200' S. OF BUTT. #1 LOOKING WSW	H. HICKEY
	*FOR PICTURE #562 SEE BELOW			
95	563	9-10-53	POURING ARCH #4-5 LOOKING N & DOWN	"
95	564	9-10-53	GENERAL VIEW OF E. SIDE OF DAM TAKEN FROM OFFICE PORCH	"
95	* 562	9-10-53	VIEW OF E. END OF DAM. STANDING 100' S. OF ARCH 4-5 LOOKING N. E.	H. HICKEY
96	565	9-11-53	EXC. FOR CUTOFF WALLS 15-16 & 16-17 LOOKING DOWN & EAST FROM POINT 100' E. OF CARPENTERS PLATFORM	"
96	566	9-11-53	EXC. FOR BUTT. 16 & 17 LOOKING WEST. TAKEN FROM TOP OF BUTT. 15	"
96	567	9-11-53	SAME AS 566 BUT LOOKING WSW	"
96	568	9-11-53	SAME AS 566 BUT LOOKING SW	"
96	569	9-11-53	STANDING ON E OF BUTT. #18 12' NORTH OF L-1087 LOOKING NWN AT EXC.	"
96	570	9-11-53	SAME AS 569 BUT LOOKING N. AT EXC.	"
97	571	9-16-53	TRUCK UNLOADING GRAVEL LOOKING WEST	"
97	572	9-16-53	SHOVEL DIGGING IN AREA S. OF BUTT. 17. STANDING @ E 18 & L 985 TO LOOKING SSE	"
97	573	9-16-53	LOOKING S. AT EXC. FOR BUTT. #18. STANDING @ L 985 TO ON E OF BUTT. #18	H. HICKEY

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
97	574	9-16-53	DOUBLE EXPOSURE	H. HICKEY
97	575	9-16-53	EXC. BETWEEN BUTT. 17 & 18. LOOKING NINE	"
97	576	9-16-53	STANDING @ L 1087.86 ON ϕ OF BUTT. #18. EXC. FOR BUTT. #18. STANDING @ L 1087- ϕ #18. LOOKING NORTH	"
98	577	9-16-53	DRILLING HOLES FOR VERT. DOWELS IN ROCK POCKET REPAIR. PATCH ON E. SIDE OF ARCH 2-3. LOOKING DOWN ϕ SOUTH	HICKEY
98	578	9-16-53	WEST END EXC. - BUTT. 15 THRU 18 LOOKING W. FROM TOP OF BUTT. #15	HICKEY
98	579	9-16-53	SAME AS #578 EXCEPT LOOKING SW FROM TOP BUTT. #15	HICKEY
98	580	9-16-53	DOZER FILLING AREA ABOUT 500' S. OF BUTT. #15. TAKEN FROM TOP OF BUTT. #15 LOOKING S.	H. HICKEY
98	581	9-16-53	EXC. FOR BUTT. #16. STANDING ON ϕ LOOKING N.	"
98	582	9-16-53	STANDING S. OF ARCH EXC. 16-17 LOOKING WNW AT EXC. FOR BUTT. #18	H. HICKEY
99	583	9-16-53	GENERAL VIEW OF W. SIDE OF DAM TAKEN FROM SPOT 500' S. OF BUTT. #16	(HICKEY)
99	584	9-16-53	VIEW OF E. SIDE OF DAM - TAKEN FROM SPOT 500' S. OF BUTT. #16	"
99	585	9-16-53	EXC. FOR OUTLET VALVE SUPPORTS ON DOWNSTREAM SIDE OF ARCH 10-11. LOOKING SW FROM PERCH ON PILASTER #2 ON BUTT. #10	H. HICKEY

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
99	586	9-16-53	PATCH IN ARCH 2-3 JUST ABOVE CUTOFF - LOOKING TOWARDS BUTT. #2	H. HICKEY
99	587	9-16-53	PATCH IN ARCH 2-3 LOOKING DOWN & S.W. FROM BUTT. 1-2	HICKEY
99	588	9-16-53	FORMS ON TOP OF PIER #4 STANDING ON TOP OF PIER #4 LOOKING SOUTH	HICKEY
100	589	9-17-53	OGEE LOOKING EAST FROM TOP OF RETAINING WALL ADJACANT TO PLATFORM ON PIER #4	HICKEY
100	590	9-17-53	OGEE SECT. FROM ABOUT D-970 TO D-1030. LOOKING S.E. FROM TOP OF TRUCK ON SPILLWAY	HICKEY
100	591	9-17-53	PATCH ON ARCH 2-3 LOOKING N.W. AND DOWN	H. HICKEY
100	592	9-22-53	EXCAVATION BETWEEN BUTT'S. NO. 10 & NO. 11. LOOKING S.S.W. FROM SPOT 15 FT. W. OF N. END OF BUTT. #10	HICKEY
100	593	9-22-53	EXCAVATION BETWEEN BUTT'S. NO. 10 & NO. 11. STANDING MIDWAY BETWEEN PILASTER #2 & #3 - 15 FT. W. OF BUTT. #10 LOOKING SW. AT EXC. BELOW PILASTER #2 - BUTT. #11	HICKEY
100	594	9-22-53	LOOKING N.W. AT EXC. BETWEEN BUTT. #10 & #11 TOWARD PILASTER #3 - BUTT. #11. STANDING AT N.W. CORNER OF PILASTER #2 - BUTT. #10	"
101	595	9-22-53	STANDING ON TOP OF PIER #1 - S. END. LOOKING AT OGEE	"
101	596	9-22-53	SPILLWAY OGEE SECT. LOOKING N.E. FROM SPOT 250' S. OF TOP OF BUTT. #2	" "

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
101	597	9-22-53	OGEE SECT. FROM ABOUT D-970 TO D-1030 BEING POURED. TAKEN FROM S. END OF TOP OF PIER #4	H. Hickey
101	598-599-600 599	9-22-53	PANORAMA PROGRESS VIEW OF S. SIDE OF DAM. TAKEN FROM TARGET 100' N.E. OF STEEL CONTRACTORS FIELD OFFICE	"
102	601	9-24-53	LOOKING N. INTO EXCAVATION FOR BUTT. #16	H. Hickey
102	602	9-24-53	LOOKING N. INTO EXCAVATION FOR BUTT. #17	"
102	603	9-24-53	STANDING 33' E. OF E. OF BUTT. #18 @ L 1087	"
			LOOKING W.W.W. INTO EXCAVATION FOR BUTT. #18	"
102	604	9-24-53	SAME AS PICTURE #603 EXCEPT LOOKING N.W.	"
102	605	9-24-53	ARTESIAN WELL AT S. END OF BUTT. #16. LOOKING S.E.	"
102	606	9-24-53	EXC. FOR BUTT. #17 & #18	"
			LOOKING E. FROM TOP OF BUTT. #15	"
103	607	9-24-53	SAME AS PICTURE #606 EXCEPT LOOKING SW.	"
103	608	9-24-53	EARTH BANK ROADWAYS TO ARCH 8-9 STANDING S. OF ARCH 11-12 LOOKING E.E.N.	"
103	609	9-24-53	SAME AS PICTURE #608 EXCEPT LOOKING E.	"
103	610	9-24-53	LOOKING W. AT EXCAVATION ON E. SIDE OF BUTT. #11 AT PILASTER #1	"
103	611	9-24-53	LOOKING SW. AT EXC. ON E. SIDE OF BUTT. #11 AT PILASTER #2	"
103	612	9-24-53	STANDING BETWEEN BUTT. #10 & #11 AT PILASTER #3	"
			LOOKING S. AT DRAGLINE DIGGING OUTLET PIPE EXC.	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
104	613	10-1-53	DRILLING CONC. TEST CORE #3 6' FROM BUTT. FACE #12 ON ARCH 11-12. STANDING ON LADDER ON BUTT. #12 LOOKING S.E.	H. Hickey
104	614	10-1-53	PICTURE OF TEST CORE HOLE #1 IN ARCH 11-12 ABOUT 15' FROM FACE OF BUTT. #11	Hickey
104	615	10-1-53	PICTURE OF TEST CORE HOLE #2 LOCATED APPROX. 4' WEST OF $\frac{1}{2}$ OF ARCH 11-12. LOOKING N.W.	Hickey
104	616	10-1-53	CONC. TEST CORES #1, #2, #3 (FROM LEFT TO RIGHT). INSIDE ENDS ARE UP. CYLINDERS ARE DRY.	Hickey
104	617	10-1-53	CONC. TEST CORES #1, #2, #3 (FROM L. TO RIGHT). OUTSIDE ENDS ARE OUT. CYLINDERS ARE WET TO EMPHASIZE TEXTURE.	Hickey
104	618	10-1-53	CORE HOLE #3 ABOUT 6' FROM BUTT. 12 ON ARCH 11-12. LOOKING N.W. AT	"
105	619	10-1-53	TRASH RACK	"
105	620	10-1-53	STANDING 3' W. OF PILASTER #1 BUTT. #11 LOOKING S. AT	"
105	621	10-1-53	FORMS FOR OUTLET PIPE FOUNDATION BETWEEN BUTTS 10 & 11 SAME AS PICTURE #620	"
105	622	10-5-53	EXCEPT TAKEN FROM SPOT FARTHER N. PANORAMA PROGRESS VIEW OF S. SIDE OF DAM. TAKEN FROM SURVEYORS TARGET 100' N.E. OF STEEL CONTRACTORS FIELD OFFICE	"
105	623	10-5-53	LOOKING N.E. SAME AS PICTURE #622 EXCEPT LOOKING N.	Hickey
105	624	10-5-53	STANDING 15' W. OF PILASTER #2 BUTT. #10 LOOKING S. AT OUTLET WORKS	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
106	625	10-9-53	LOOKING NW AT OUTLET WORKS BETWEEN BUTT.#10 & #11	H. Hickey
106	626	10-12-53	LOOKING N.N.W. AT EXC. FOR BUTT. #17	H. Hickey
106	627	10-12-53	LOOKING N.W. AT FORMS FOR CUTOFF OF S. END OF BUTT. 18	"
106	628	10-12-53	LOOKING N.E. AND DOWN AT EXC. FOR CUTOFF 15-16	"
106	629	10-12-53	LOOKING N. INTO EXCAVATION FOR BUTT. 16	"
106	630	10-12-53	LOOKING N. AT CEMENT FINISHER FILLING KEYWAY IN FACE OF BUTT. #13	Hickey
107	631	10-15-53	LOOKING E.E.S. AND DOWN AT FORMS FOR FOUNDATION OF BUTT. HEAD #18 AND WEST PORTION OF CUTOFF WALL #17-18	Hickey
107	632	10-15-53	LOOKING DOWN & N.W. AT CUTOFF 17-18 FOUNDATION ADJACENT TO HEAD OF BUTTRESS #18	"
107	633	10-15-53	LOOKING DOWN AND N.W. AT FOUNDATION AREA ABOUT 15' N. OF CUTOFF WALL UNDER BUTT. 18	"
107	634	10-15-53	CUTOFF 17-18 FOUNDATION. AREA ABOUT 5' S.E. OF FACE OF BUTT. 18. LOOKING DOWN AND NORTH	"
107	635	10-15-53	STANDING AT FACE OF BUTT. #18 LOOKING S.S.E. AT FOUNDATION AND EXTRADOS SIDE WALL FOR CUTOFF 17-18.	"
107	636	10-15-53	STANDING 5' N. OF FACE OF BUTT. #18 LOOKING SOUTH AT FOUNDATION UNDER CENTER OF CUTOFF 17-18	"

PHOTOGRAPHED

ROLL #	PICTURE #	DATE	DESCRIPTION	By
108	637	10-16-53	WORKMAN STANDING ON ARCH 13-14 INTRADOS FORM NOTE NARROW WALKWAY AND NO HANDRAIL (ABOUT 80' STRAIGHT DOWN). STANDING ON ARCH 13-14 LOOKING N.E. TOWARDS BUTT. #13	HICKEY
108	638	10-16-53	DEBRIS ON ARCH 13-14 INTRADOS FORM. LOOKING EAST	HICKEY
108	639	10-16-53	STANDING ON LADDER LOOKING DOWN FACE OF BUTT #14 AT ACCUMULATED BOARDS, ROCKS ETC. LODGED NEXT TO LADDER	HICKEY
108	640	10-16-53	STANDING 5' W. OF E. OF ARCH 6-7 LOOKING WEST AT ROCK POCKETS	HICKEY
108	641	10-16-53	STANDING 12' E. OF E. OF ARCH 6-7 LOOKING W. AT ROCK POCKETS	HICKEY
108	642	10-16-53	HUMP IN WEST SIDE OF ARCH 1-2. STANDING ON CUTOFF LOOKING TOWARDS BUTT. #2	HICKEY
109	643	10-19-53	HUMP IN WEST SIDE OF ARCH 1-2. STANDING 10' SOUTH OF ARCH 1-2 LOOKING TOWARDS BUTT. #2	HICKEY
109	644	10-19-53	IRREGULAR SURFACE OF ARCH 1-2. STANDING ON W. SIDE OF ARCH 1-2 LOOKING DOWN	"
109	645	10-19-53	HUMP ON E. SIDE OF ARCH 2-3. STANDING AT E. OF ARCH 2-3 LOOKING N.E.	"
109	646	10-20-53	PLACING OUTLET PIPE. STANDING BUTT'S. #10 & #11 LOOKING SOUTH	HICKEY
109	647	10-20-53	ANGLE IRON CHAIRS SUPPORTING NEEDLE VALVE. STANDING BETWEEN BUTT. #10 & OUTLET VALVE FOUNDATION.	"

PHOTOGRAPHED

ROLL #	PICTURE #	DATE	DESCRIPTION	BY
109	648	10-20-53	DRY. PACKING SEAT FOR WEST OUTLET PIPE ON 3 RD PIER N. OF ARCH 10-11. LOOKING S.E.	Hickey
110	649	10-20-53	CHIPPING OPENING IN EAST WALL OF OUTLET VALVE FOUNDATION. FOR EAST OUTLET PIPE	Hickey
110	650	10-20-53	STANDING ABOVE N. WALL OF VALVE HOUSING LOOKING SOUTH AT OUTLET PIPES	"
110	651	10-20-53	TYPICAL DEBRIS LITTERED BUTTRESS FACE. LOOKING N.E. AT STAIRWAY ON BASE OF BUTT. #14	"
110	652	10-20-53	MISSING STAIR TREAD ON BUTT. #13 LADDER AT ABOUT EL. 2035.	"
110	653-654	10-21-53	PANORAMA PROGRESS VIEW OF S. SIDE OF DAM. TAKEN FROM TARGET 100' N.E. OF CHAMBERS STEEL FIELD OFFICE	"
111	655	10-22-53	POURING BUTT. 18 UP TO EL. 2024 STANDING AT L 985 ⁷⁰ ON E OF BUTT. 18 LOOKING DOWN AND SOUTH	"
111	656	10-22-53	POURING BUTT. 18 UP TO EL. STANDING AT L 1083 ⁹⁰ AT E OF BUTT. 18 LOOKING NORTH AND DOWN.	"
111	657	10-22-53	LOOKING WEST AND DOWN AT POURING OF BUTT. 18	"
111	658-659	10-22-53	PANORAMA OF BUTT. 18 BEING POURED. STANDING ON E OF BUTT. 18 LOOKING SOUTH	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
111	660	10-22-53	FOUNDATION ROCK UNDER N. END OF BUTT. 18 POUR ABOVE EL. 2016. LOOKING WEST	H. HICKEY
112	661	10-22-53	EXC. FOR BUTT. #16. STANDING AT & BUTT. #16 LOOKING SOUTH	"
112	662-663	10-22-53	PANORAMA OF BUTT. #16 EXCAVATION. STANDING ON & BUTT. #16 LOOKING N.	"
112	664-665	10-22-53	PANORAMA OF BUTT. #17 EXCAVATION. STANDING ON & BUTT. #17 LOOKING N.	"
112	666	10-22-53	ROCK FOUNDATION FOR CUTOFF 17-18. STANDING AT & BUTT. 17 LOOKING W.	"
113	667	10-27-53	W. SIDE EXTRADOS FORM FOR ARCH 14-15. FORM WAS CONDEMNED BECAUSE OF WORN OUT BOARDS ON FACE	"
113	668	10-27-53	INSIDE FACE OF W. SIDE EXTRADOS FORM - ARCH 14-15 AS IT IS BEING LOWERED	"
113	669	10-27-53	SAME AS 668	HICKEY
113	670	10-27-53	LOADING DYNAMITE AND DRILLING AT SAME TIME IN CUTOFF FOR ARCH 15-16. LOOKING WEST.	"
113	671	10-27-53	RIDGES IN W. EXTRADOS FACE OF ARCH 14-15. STANDING ON BUTT. #15 LOOKING UP	"
113	672	10-27-53	RIDGES IN W. SIDE EXTRADOS FACE OF ARCH 14-15 CAUSED BY WORN OUT EXTRADOS FORM WHICH WAS CONDEMNED FOR ANY FURTHER USE. STANDING ON BUTT. #15 LADDER LOOKING UP.	HICKEY
114	673	10-27-53	LOOKING S. AT LOADING DYNAMITE AND DRILLING SIMULTANEOUSLY IN S. END OF BUTT. #16	HICKEY
114	674	10-27-53	INSIDE FACE OF E. SIDE EXTRADOS FORM FOR ARCH 14-15. PICTURE WAS TAKEN AS FORM WAS BEING LOWERED AFTER BEING CONDEMNED	HICKEY

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
114	675	10-28-53	PORTRAIT OF GEORGE DALEY STANDING NEAR SPILLWAY.	H. HICKEY
114	677	10-29-53	LOOKING W. AT CRACKS AROUND ANCHOR BOLTS IN E. FACE OF TRASH RACK ASSEMBLY	H. HICKEY
114	676	10-29-53	DRILLING GROUT HOLES IN W. GRAVITY SECT.	"
114	678	10-29-53	LOOKING E. AT FACE OF CUTOFF 15-16 AS PLACED IN 1928	"
115	679	11-4-53	STANDING SOUTH OF BUTT. #16 LOOKING N.E. AT EXCAVATION FOR CUTOFF 15-16	"
115	680-681	11-4-53	PANORAMA PROGRESS VIEW OF S. SIDE OF DAM. TAKEN FROM TARGET 100' N.E. OF CHAMBERS STEEL FIELD OFFICE	"
115	682	11-6-53	LOOKING S.W. AND DOWN AT REINFORCING STEEL AND GROUT PIPES IN BUTT. 18	HICKEY
115	683	11-6-53	LOOKING N.E. AT HOWELL-BUNGER VALVE HOUSING	HICKEY
115	684	11-6-53	STANDING AT S. END OF GRAVITY SECT. (EL. 2036) LOOKING N. AT GROUT PIPES AND EXC. SIDE WALL	"
116	685	11-13-53	GROUP PICTURE OF CITY EMPLOYEES AT SUTHERLAND DAM.	MRS. DEVORSKE
116	686	11-13-53	SAME AS #685	" "

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
116	687	11-13-53	STANDING 20'E. OF \perp OF BUTT.#17 LOOKING S.W. AND DOWN AT FOUNDATION FOR BUTT. HEAD #17	H. Hickey
116	688	11-13-53	STANDING 20'E. OF \perp OF BUTT.#17 LOOKING W. AT ROCK FOUNDATION FOR CUTOFF #17-18	"
116	689	11-13-53	STANDING AT \perp OF CUTOFF 17-18 LOOKING N.W. TOWARD BUTT. 18 AT FOUNDATION FOR CUTOFF #17-18	"
116	690	11-13-53	STANDING AT \perp OF CUTOFF 17-18 LOOKING N.E. TOWARD BUTT. #17 AT FOUNDATION FOR CUTOFF #17-18	"
117	691-692	11-19-53	PANORAMA PROGRESS VIEW OF S. SIDE OF DAM. TAKEN FROM TARGET 100' N.E. OF CHAMBERS STEEL FIELD OFFICE	"
117	693	11-19-53	LOOKING WEST AT CAVE IN OF BANK ON W. SIDE OF W. GRAVITY SEC.	"
117	694	11-19-53	SAME AS #693 SHOWING FURTHER CAVE IN 5 MIN. LATER	"
117	695	11-19-53	STANDING IN CUTOFF 15-16 AT ABOUT EL. 1990 LOOKING DOWN AT EXCAVATION ADJACENT TO BUTT. #15	"
117	696	11-19-53	STANDING AT ABOUT \perp OF CUTOFF 15-16	"
118	697	11-23-53	CITY & STATE OFFICIALS ON SPILLWAY	"
118	698	11-23-53	CITY & STATE OFFICIALS ON SPILLWAY	"

ROLL #118 WAS
SPOILED DURING
DEVELOPING

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY	
Roll 118 WAS SPOILED	118	699	11-23-53	LOOKING DOWN FROM DEE AT GROUP OF CITY & STATE OFFICIALS	HICKEY
	118	700	11-23-53	GROUP OF CITY & STATE OFFICIALS	HICKEY
	118	701	11-23-53	GROUP PICTURE OF CITY & STATE OFFICIALS NEAR SPILLWAY	HICKEY
	118	702	11-23-53	LOOKING N. AT OFFICIALS INSPECTING BUTT. #5	HICKEY
119	703	11-23-53	GROUP OF OFFICIALS	"	
119	704	11-23-53	" " "	"	
119	705	11-23-53	" " "	"	
119	706	11-24-53	LOOKING S.W. AT SAND BLASTED STEEL & KEYWAYS ON E. SIDE OF BUTT. #7 FOR UPSTREAM DIAPHRAM #6-7	"	
119	707	11-24-53	LOOKING S. AT BUTT. #17 PARTIAL POOR	"	
119	708	11-24-53	STANDING S. OF BUTT. #16 LOOKING N. AT EXCAVATION FOR BUTT. #16	"	

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY	
ROLL #120 WAS RUINED	120	709-710	11-27-53	PANORAMA OF ROCK POCKET IN 1928 PORTION OF E. SIDE OF BUTT. #13. LOOKING WEST	HICKEY
	120	711	12-2-53	LOOKING DOWN & NORTH AT PARTIALLY Poured BUTT. #16	HICKEY
	120	712	12-2-53	LOOKING AT GROUP SURROUNDING FIELD TEST TO DETERMINE QUANTITY OF AIR INTRAINED IN MIXED CONCRETE	HICKEY
	120	713	12-2-53	LOOKING S.W. AND DOWN AT STEEL BEING PLACED IN BUTT. #18	"
	120	714	12-2-53	STANDING 5' E. OF & OF BUTT. #17	"
	121	715-716	12-11-53	LOOKING S. & DOWN AT REINF. STEEL PANORAMA PROGRESS VIEW OF S. SIDE OF DAM. TAKEN FROM TARGET 100' N.E. OF CHAMBERS STEEL FIELD OFFICE	"
	121	717	12-11-53	LOOKING DOWN AND N.E. AT REINFORCING STEEL IN CUTOFF 15-16	"
	121	718	12-11-53	STANDING ON BUTT. #15 STAIRWAY LOOKING UP AT SECTION OF STAIRWAY BEING LOWERED ONTO BUTT. #15.	"
	121	719	12-11-53	STANDING ON BUTT. #15 LOOKING DOWN AND S.W. AT POUR OF CUTOFF 15-16	"
	121	720	12-14-53	LOOKING EAST AT FORM BRACES ON TOP OF BUTT. #2	"
	122	721	12-17-53	STANDING AT EAST "M" LINE OF ARCH 13-14 LOOKING N.E. AT REINFORCING STEEL AND FORMS FOR WALKWAY	HICKEY
	122	722	12-17-53	STANDING NEAR & OF ARCH 13-14 LOOKING N.W. AT REINF. STEEL AND FORMS FOR WALKWAY	"
	122	723	12-17-53	STANDING OVER BUTT. #13 LOOKING WEST AT FORMS FOR WALKWAY	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
122	724	12-17-53	STANDING OVER ϕ OF BUTT. 13 LOOKING W. AT MAT OF REINF. STEEL IN WALKWAY AT INTERSECTION OF ARCH AND BUTTRESS	Hickey
122	725-726	12-17-53	PANORAMA OF BUTT. #16. STANDING ON ϕ LOOKING S.	"
123	727-728	12-28-53	PANORAMA PROGRESS VIEW OF S. SIDE OF DAM. TAKEN FROM TARGET 100' N.E. OF CHAMBERS STEEL FIELD OFFICE	"
123	729	12-28-53	STANDING AT EAST "M" LINE OF ARCH 9-10 LOOKING DOWN AT DEBRIS LITTERED STAIRWAY ON FACE OF BUTT. #9	"
123	730	12-28-53	STANDING S. OF ARCH 16-17 LOOKING N.W. AT INTRADOS FORM FOR ARCH 17-18	"
123	731	12-28-53	LOOKING N. AT STILLING WELL PIPE PROTRUDING THROUGH TRASH RACK	"
123	732	12-28-53	STANDING S. OF ARCH 6-7 LOOKING W. AT POND BEHIND DAM - WATER EL. 1930	"
124	733	12-28-53	FLOYD HICKS - SUPT. FOR CHAMBERS STEEL Co. - REINF. STEEL SUB-CONTRACTOR	"
124	734	12-28-53	M. D. STEPHENS - CARPENTER FOREMAN	"
124	735	12-28-53	ROBERT WALTER - FOREMAN FOR CHAMBERS STEEL Co.	"
124	736	12-28-53	LYSLE HOLDEN - FOREMAN OF CONCRETE POURING CREW	"
124	737	12-29-53	CHUCK MILBURN JR. ASSISTANT SUPT.	"
124	738	12-29-53	FRANK ATKINS CARPENTER FOREMAN	"
125	739-740	1-11-54	PANORAMA PROGRESS VIEW OF S. SIDE OF DAM. TAKEN FROM TARGET 100' N.E. OF CHAMBERS STEEL FIELD OFFICE	"

ROLL #	PICTURE #	DATE	DESCRIPTION	PHOTOGRAPHED BY
125	741-742	1-11-54	PANORAMA OF WEST END OF DAM (BUTTRESSES #16 AND #17 PARTIALLY COMPLETED) STANDING SOUTH OF WEST EDGE OF GRAVITY SEC. LOOKING EAST	H. HICKEY
125	743	1-11-54	STANDING N. OF BUTT. #14 LOOKING UP AND S.W. AT FORM FOR WALKWAY 14-15	"
125	744	1-11-54	LOOKING UP AT MEN GROUTING DOWELS IN EAST FACE OF BUTTRESS #11 FOR DOWNSTREAM DIAPHRAM #10-11	H. HICKEY
126	745	1-11-54	CONC. WETTING AND DRYING TEST. LOOKING AT PIECE OF CONC. CYLINDER (AT 6' DISTANCE) AFTER SOAKING FOR 64 HOURS IN WATER AND THEN COOKING FOR 2 HRS. AT 90°C.	HICKEY
126	746	1-11-54	NOTE POWDERY FILM ON SURFACE. SAME AS #745 EXCEPT TAKEN AT A DISTANCE OF 3'	"
126	747	1-11-54	PICTURE OF SAME SPECIMEN AS SHOWN IN PICTURES #745 AND 746 WITH THE POWDERY FILM REMOVED.	"
126	748	1-11-54	TAKEN AT A DISTANCE OF 3' SAME AS PICTURE #747 EXCEPT TAKEN AT A DISTANCE OF 6'	"
126	749	1-11-54	LOOKING UP AND SOUTH AT SEAT FOR ARCHED STRUT IN EAST FACE OF BUTT. #9	"
126	750	1-11-54	LOOKING SOUTH AT MID-BUTTRESS DIAPHRAM BETWEEN BUTT. #6 & #7	"
127	751-752	1-11-54	PANORAMA OF WATER LEVEL IN RESERVOIR TAKEN FROM WALKWAY 14-15	"
127	753	1-11-54	ROBERT GREENOUGH FORMER CARPENTER FOREMAN	"

ROLL No.	PICTURE No.	DATE	DESCRIPTION	PHOTOGRAPHED BY
127	754	1-11-54	STANDING ON ARCH 11-12 LOOKING E. AT POUR OF ARCH 10-11	H. Hickey
127	755	1-11-54	DON ROSEBERRY CARPENTER FOREMAN	H. Hickey
127	756	1-11-54	HERMAN C. BROWN CARPENTER FOREMAN	" "
128	757	1-13-54	DAVID DUPLISEN CARPENTER FOREMAN	" "
128	758	1-13-54	AL RING - CONTRACTORS ENG. FRANK MEYERS - INSTRUMENT MAN	" "
128	759	1-14-54	ERNEST BRENNER - CEMENT FINISHING FOREMAN	" "
128	760	1-14-54	CARPENTER SCRAPING CONC. SCALE FROM EXTRADOS FORM ARCH 9-10	" "
128	761	1-14-54	STANDING ON ARCH 11-12 LOOKING WEST AT WHITE COATING ON CONCRETE ON ARCH 10-11	H. Hickey
128	762	1-14-54	SAME AS 761	H. Hickey
129	763	1-22-54	STANDING S. OF ARCH 14-15 LOOKING N.W. AT WEST END OF DAM	" "
129	764	1-22-54	STANDING ON TOP OF BUTT. 15 LOOKING W. AT RUTRESSES NO'S. 17 & 18	" "
129	765-766	1-22-54	PANORAMA PROGRESS VIEW OF S. SIDE OF DAM. TAKEN FROM TARGET 100' N.E. OF CHAMBERS	" "
129	767	1-22-54	STEEL FIELD OFFICE LOOKING DUE N. AT UPSTREAM SIDE OF DAM	" "
129	768	1-22-54	LOOKING N.N.W. AT DOWNSTREAM SIDE OF DAM	" "
130	769	1-22-54	STANDING N. OF BUTT. 15 LOOKING EAST AT DOWNSTREAM SIDE OF DAM	" "
130	770	1-22-54	RAY HENRY DRILLING FOREMAN	" "

ROLL No.	PICTURE No.	DATE	DESCRIPTION	PHOTOGRAPHED BY
130	771	1-22-54	W. B. (RUSTY) ERLER LABOR FOREMAN	H. HICKEY
130	772	1-22-54	SAND BLASTING PARAPET WALL CONSTRUCTION JOINT ON WALKWAY 13-14.	"
130	773	1-22-54	ROUGHING FACE OF BUTT. 16 FOR BOND WITH ARCH 16-17	H. HICKEY
130	774	1-26-54	CHARLES MILBURN SR. GENERAL Supt. - BENT-DALEY CONTRACT.	H. HICKEY
131	775	1-28-54	LOOKING S.W. AT STRUT SEATS IN E. FACE OF BUTT. 8 FOR ARCHED STRUT 7-8 (EL. 1940)	"
131	776	1-28-54	LOOKING S.E. AT PORTION OF EAST SPILLWAY WALL DAMAGED BY LANDSLIDE	"
131	777	1-28-54	LOOKING SOUTH ALONG EAST SPILLWAY WALL AT PORTION OF WALL DAMAGED BY LANDSLIDE	"
131	778	1-28-54	LOOKING UP AND S.E. AT PORTION OF EAST SPILLWAY WALL DAMAGED BY LANDSLIDE	"
131	779-780	1-28-54	PANORAMA OF RESERVOIR FROM WALKWAY 13-14 (WATER EL. 1946)	"
132	781-782-783	2-12-54	PANORAMA PROGRESS VIEW OF S. SIDE OF DAM, TAKEN FROM TARGET 100' N.E. OF CHAMBERS STEEL FIELD OFFICE	"
132	784	2-12-54	STANDING S. OF GRAVITY SECT. LOOKING E. AT ARCHES 15-16 AND 16-17	"
132	785	2-12-54	LOOKING E. AT TOP OF WEST GRAVITY SECTION (EL. 2068 1/2)	"
132	786	2-12-54	STANDING N. OF BUTT. 18 LOOKING E. AT PARTIALLY COMPLETED BUTTRESSES #16 & #17	"

ROLL No.	PICTURE No.	DATE	DESCRIPTION	PHOTOGRAPHED By
133	787	2-12-54	IRON WORKERS PLACING STEEL IN ARCH 15-16	H. HICKEY
133	788	2-12-54	PATCHING SHEE BOLT HOLES IN PARAPET WALL 13-14 AFTER REMOVING FORM.	"
133	789	2-12-54	REINFORCING STEEL FOR PARAPET WALL 12-13	"
133	790	2-12-54	CARPENTERS OILING FORMS FOR WALKWAY 10-11	"
133	791-792	2-12-54	PANORAMA OF N. SIDE OF DAM. TAKEN FROM CITY OFFICE PORCH.	"
134	793	2-17-54	HARVEY E. BROWN AND MRS T.V. HUFF WITH BOB CAT PICKED UP ON ROAD BETWEEN RAMONA AND DAM	"
134	794	2-17-54	SAME AS #793	"
134	795	2-18-54	LOOKING N.W. AT GROUT PIPES IN WEST GRAVITY SEC.	"
134	796	2-18-54	FORMS FOR MID-BUTT. ARCHED STRUT 5-6	"
134	797-798	2-19-54	PANORAMA OF RESERVOIR. LOOKING E. AND S.E. FROM TOP OF HILL WEST OF DAM. WATER EL. 1952.5	"
135	799-800	2-25-54	PANORAMA PROGRESS VIEW OF S. SIDE OF DAM - TAKEN FROM TARGET 100' N.E. OF CHAMBERS STEEL FIELD OFFICE	"
135	801	2-25-54	GENERAL PICTURE OF S. SIDE OF DAM - TAKEN FROM ROADWAY ABOUT 500' S.W. OF BUTT. 18.	"
135	802	2-25-54	LOOKING S. AT LEAKS IN ARCH 8-9 THROUGH HORIZONTAL CRACK. AIR TEMP. 80°F.	"

ROLL No.	PICTURE No.	DATE	DESCRIPTION	PHOTOGRAPHED BY
135	803	2-25-54	LOOKING S. AT DOWNSTREAM SIDE OF ARCH 9-10. WATER LEAKING THROUGH HORIZONTAL CRACK. AIR TEMP. = 80°F.	H. HICKEY
135	804		LOOKING N. AT UPSTREAM SIDE OF WEST END OF DAM	HICKEY

Roll from camera of Doyle
Buchanan - flash bulb pictures

Taken by D. Buchanan

Film #1	805		Rock pocket on Buttr. #9 looking toward Arch 10 + 11
Film #2	806		Same as 805
Film #3	807		Same as 805
Film #7	808		Leak in arch 8-9 showing vertical cracks
Film #8	809		Same as #7
" #15	810		Buttress #16-17-18 looking east across Buttress #3

ROLL No	PICTURE No.	DATE	DESCRIPTION	PHOTOGRAPHED BY
136	811	3-10-54	PRESSURE GROUTING CUTOFF 16-17	H. HICKEY
136	812	3-10-54	GROUTING MIXER & PRESSURE PUMP	"
136	813	3-10-54	GROUT HOSE CONNECTION TO GROUT PIPE - NOTE PRESSURE GAGE	"
136	814 (spoiled at Lab)	3-10-54	WORKMEN REMOVING SHEE BOLTS - STANDING ON INTRADOS WALKWAY FORM SUSPENDED FROM HIGH LINE	"
136	815	3-10-54	LOOKING DOWN & E. AT FORMS FOR TOP POUR ON DOWNSTREAM DIAPH. 6-7	"
136	816	3-15-54	HIGHLINE & OPERATOR AFTER MECHANICAL TROUBLE FORCED HIGHLINE TO STOP POUR ON ARCH 8-9	"
137	817-818	3-25-54	PANORAMA OF RESERVOIR. TAKEN FROM HILL WEST OF BUTT. 18 LOOKING EAST. WATER EL. 1975.0 ±	"
137	819	3-25-54	GENERAL VIEW OF UPSTREAM SIDE OF DAM, LOOKING EAST	"
137	820	3/26/54	1 ST WATER THRU. SUTHERLAND- SAN VICENTE CONDUIT AT OPEN TEND. V. OUTLET	HUFF
137	821	"	SHOWING GRATING OVER END OF OUTLET	" "
137	822	"	SHOWING HEIGHT OF WATER AGAINST BAFFLE	" "
138	823	"	LOOKING DOWNSTREAM FROM OUTLET	" "
138	824	"	LOOKING DOWN STREAM, SHOWING, HEIGHT OF WATER AGAINST BAFFLE	" "
138	825	"	LOOKING UPSTREAM FROM 100' BELOW OUTLET	" "

ROLL No.	PICTURE No.	DATE	DESCRIPTION	PHOTOGRAPHED BY
138	826	3-29-54	LOOKING UPSTREAM SHOWING EROSION TAK	T. V. HUFF
138	827	"	LOOKING FROM DOWNSTREAM OF OUTLET, SHOWING EROSION	"
138	828	"	" " "	"
139	829	4-9,54	T.V.H.	
139	830	4,9,54	LOOKING EAST & DOWN ON CUTOFF, EXC. WEST GRADY, SEC.	D. Buchanan
	831			
	832			
	833			
	834			
140	835			
	836			
	837			

ROLL No.

PICTURE No.

DATE

DESCRIPTION

PHOTOGRAPHED
BY

838

839

840

#6 - Reservoir at water elev
Roll "B"

#5 - Top of dam. looking

#4 - Slot in bank for an
looking west from vicinity

#3 - West cutoff west of Grav
looking down from main

Roll

4/20/54

Roll "A"

#3 - West cutoff west of Gravity Section and Buttress #18.
Looking down from main road on west side of canyon.

#4 - Slot in bank for end of parapet wall.
Looking west from vicinity of buttress #18.

#5 - Top of dam. Looking east from west highline tower.

#6 - Reservoir at water elevation 1975
Roll "B"

#1 - West highline tower showing hooks

#2 - ~~Anchors~~ and counterweights for highline traction cables.

#3 - Buttress #1 - Pier #4. Looking Southwest from center of spillway apron

#4 - Buttress #1 - Pier #4 - looking west from ~~center of apron~~ spillway apron

#5 - General view of upstream side of dam.

#6 - ~~Down~~ Upstream end of Buttress #1 - Pier #4.

ROLL No.

PICTURE No.

DATE

DESCRIPTION

PHOTOGRAPHED
BY

838

839

840

ROLL No.

PICTURE No.

DATE

DESCRIPTION

PHOTOGRAPHED
BY

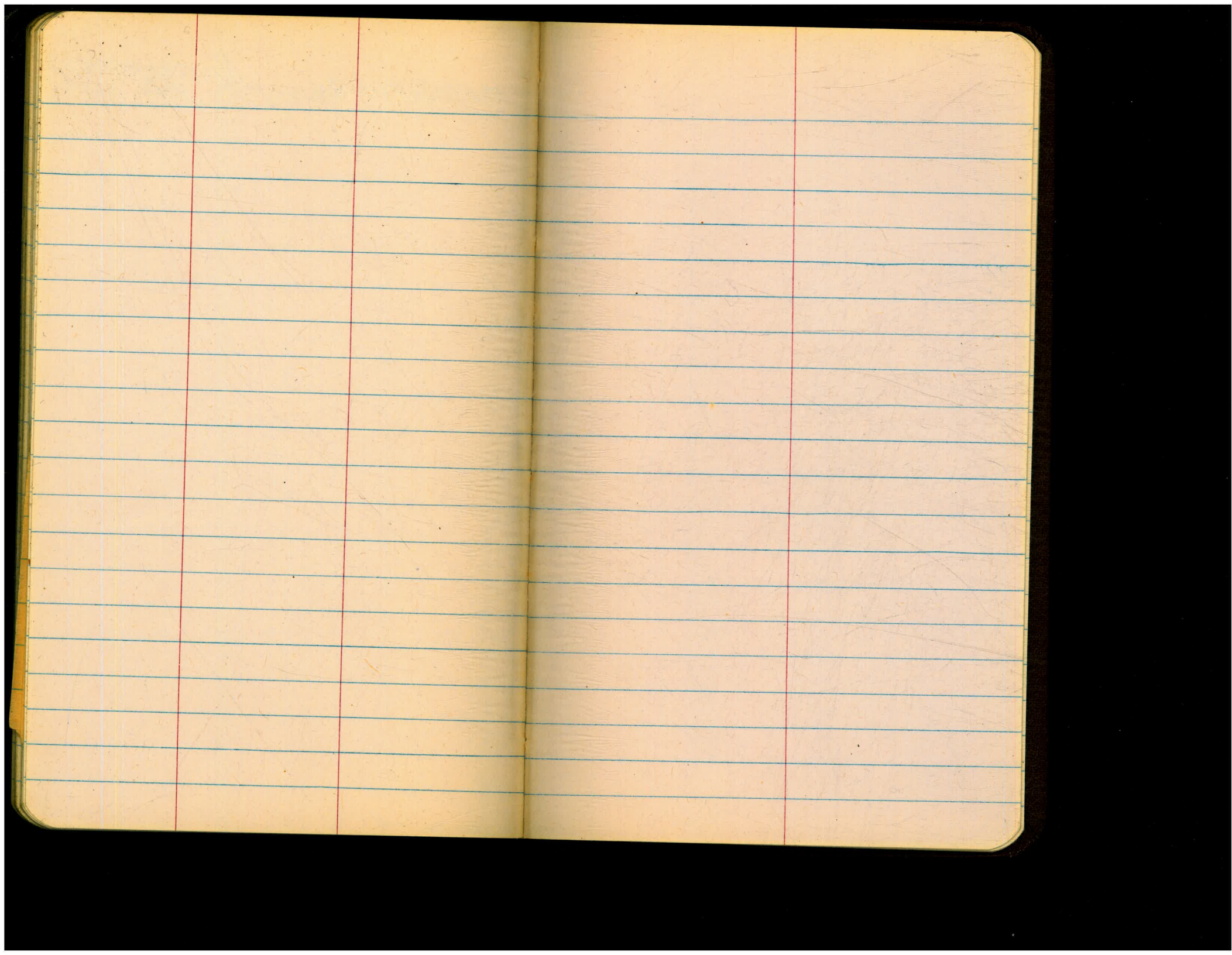
ROLL No.

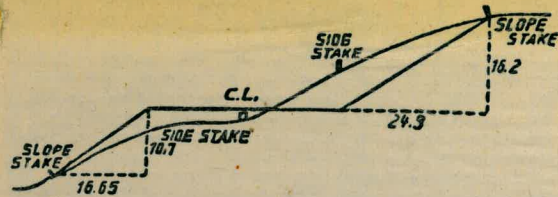
PICTURE No.

DATE

DESCRIPTION

PHOTOGRAPHED
BY





DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.

SLOPE $1\frac{1}{2}$ TO 1. ROADWAY OF ANY WIDTH.

	0	.1	.2	.3	.4	.5	.6	.7	.8	.9	
0	0.00	0.15	0.30	0.45	0.60	0.75	0.90	1.05	1.20	1.35	0
1	1.50	1.65	1.80	1.95	2.10	2.25	2.40	2.55	2.70	2.85	1
2	3.00	3.15	3.30	3.45	3.60	3.75	3.90	4.05	4.20	4.35	2
3	4.50	4.65	4.80	4.95	5.10	5.25	5.40	5.55	5.70	5.85	3
4	6.00	6.15	6.30	6.45	6.60	6.75	6.90	7.05	7.20	7.35	4
5	7.50	7.65	7.80	7.95	8.10	8.25	8.40	8.55	8.70	8.85	5
6	9.00	9.15	9.30	9.45	9.60	9.75	9.90	10.05	10.20	10.35	6
7	10.50	10.65	10.80	10.95	11.10	11.25	11.40	11.55	11.70	11.85	7
8	12.00	12.15	12.30	12.45	12.60	12.75	12.90	13.05	13.20	13.35	8
9	13.50	13.65	13.80	13.95	14.10	14.25	14.40	14.55	14.70	14.85	9
10	15.00	15.15	15.30	15.45	15.60	15.75	15.90	16.05	16.20	16.35	10
11	16.50	16.65	16.80	16.95	17.10	17.25	17.40	17.55	17.70	17.85	11
12	18.00	18.15	18.30	18.45	18.60	18.75	18.90	19.05	19.20	19.35	12
13	19.50	19.65	19.80	19.95	20.10	20.25	20.40	20.55	20.70	20.85	13
14	21.00	21.15	21.30	21.45	21.60	21.75	21.90	22.05	22.20	22.35	14
15	22.50	22.65	22.80	22.95	23.10	23.25	23.40	23.55	23.70	23.85	15
16	24.00	24.15	24.30	24.45	24.60	24.75	24.90	25.05	25.20	25.35	16
17	25.50	25.65	25.80	25.95	26.10	26.25	26.40	26.55	26.70	26.85	17
18	27.00	27.15	27.30	27.45	27.60	27.75	27.90	28.05	28.20	28.35	18
19	28.50	28.65	28.80	28.95	29.10	29.25	29.40	29.55	29.70	29.85	19
20	30.00	30.15	30.30	30.45	30.60	30.75	30.90	31.05	31.20	31.35	20
21	31.50	31.65	31.80	31.95	32.10	32.25	32.40	32.55	32.70	32.85	21
22	33.00	33.15	33.30	33.45	33.60	33.75	33.90	34.05	34.20	34.35	22
23	34.50	34.65	34.80	34.95	35.10	35.25	35.40	35.55	35.70	35.85	23
24	36.00	36.15	36.30	36.45	36.60	36.75	36.90	37.05	37.20	37.35	24
25	37.50	37.65	37.80	37.95	38.10	38.25	38.40	38.55	38.70	38.85	25
26	39.00	39.15	39.30	39.45	39.60	39.75	39.90	40.05	40.20	40.35	26
27	40.50	40.65	40.80	40.95	41.10	41.25	41.40	41.55	41.70	41.85	27
28	42.00	42.15	42.30	42.45	42.60	42.75	42.90	43.05	43.20	43.35	28
29	43.50	43.65	43.80	43.95	44.10	44.25	44.40	44.55	44.70	44.85	29
30	45.00	45.15	45.30	45.45	45.60	45.75	45.90	46.05	46.20	46.35	30
31	46.50	46.65	46.80	46.95	47.10	47.25	47.40	47.55	47.70	47.85	31
32	48.00	48.15	48.30	48.45	48.60	48.75	48.90	49.05	49.20	49.35	32
33	49.50	49.65	49.80	49.95	50.10	50.25	50.40	50.55	50.70	50.85	33
34	51.00	51.15	51.30	51.45	51.60	51.75	51.90	52.05	52.20	52.35	34
35	52.50	52.65	52.80	52.95	53.10	53.25	53.40	53.55	53.70	53.85	35
36	54.00	54.15	54.30	54.45	54.60	54.75	54.90	55.05	55.20	55.35	36
37	55.50	55.65	55.80	55.95	56.10	56.25	56.40	56.55	56.70	56.85	37
38	57.00	57.15	57.30	57.45	57.60	57.75	57.90	58.05	58.20	58.35	38
39	58.50	58.65	58.80	58.95	59.10	59.25	59.40	59.55	59.70	59.85	39
40	60.00	60.15	60.30	60.45	60.60	60.75	60.90	61.05	61.20	61.35	40
41	61.50	61.65	61.80	61.95	62.10	62.25	62.40	62.55	62.70	62.85	41
42	63.00	63.15	63.30	63.45	63.60	63.75	63.90	64.05	64.20	64.35	42
43	64.50	64.65	64.80	64.95	65.10	65.25	65.40	65.55	65.70	65.85	43
44	66.00	66.15	66.30	66.45	66.60	66.75	66.90	67.05	67.20	67.35	44
45	67.50	67.65	67.80	67.95	68.10	68.25	68.40	68.55	68.70	68.85	45
46	69.00	69.15	69.30	69.45	69.60	69.75	69.90	70.05	70.20	70.35	46
47	70.50	70.65	70.80	70.95	71.10	71.25	71.40	71.55	71.70	71.85	47
48	72.00	72.15	72.30	72.45	72.60	72.75	72.90	73.05	73.20	73.35	48
49	73.50	73.65	73.80	73.95	74.10	74.25	74.40	74.55	74.70	74.85	49
50	75.00	75.15	75.30	75.45	75.60	75.75	75.90	76.05	76.20	76.35	50

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