

W.O. 16-6-9

749



CITY OF SAN DIEGO

DECD



CITY OF SAN DIEGO
OFFICE OF HYDRAULIC ENGINEER

WATER DEPARTMENT

INFORMATION REQUEST

No. 52

W.O. NO. 16-6-9

DATE 10/4/48

TO Don E. Leonard FROM W.C. Brown

Perform routine staking and checking
for Alvarado Regulating Reservoir Roof
and Lining from day to day as required by
field conditions and as directed.

REFERENCES: DRAWING NO. Plans & Spec.
for Alv. Reg. Res. Roof & Lining

USE REVERSE SIDE IF NEEDED
FIELD BOOK NO. 749

REPORT BY _____ TO _____ DATE _____

INFORMATION ON DRAWING NO. _____
DATA IN BOOK _____

NOTE: PINK COPY TO ASSISTANT HYDRAULIC ENGINEER

Distance
ground in
column
side stake
side stake
cut or fill
If it does not make the slight adjustment necessary.

FORM 211-A

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W.O. 16-6-9



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

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

Set slope stake from side or shoulder stake for any width roadway, slope 1 to 1. If roadway level, the cut or fill at side stake is located by the double entry method in left and right rows. The number in body of table in same row and column gives distance from side stake. If ground is not level estimate the difference in elevation between the side slope stake, lower target by this amount if cut, elevate if fill. Add this amount to the 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.

749

CITY OF SAN DIEGO

RECD
OCT 5 1948

RESIDENT ENGINEER

TABLE XIII—CORRECTIONS FOR TANGENTS AND EXTERNALS

These corrections are to be added to the approximate values, found by dividing the tangent, or external, for a 1° curve (Table VIII) by the degree of curve, in order to obtain the true tangents, or externals. Intermediate values may be obtained by interpolation.

FOR TANGENTS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.03	.06	.09	.13	.16	.19	.22	.25	.28	.31	.34	.38	.42	.46
15°	.04	.10	.14	.19	.24	.29	.34	.39	.45	.51	.53	.58	.63	.68
20°	.06	.13	.19	.26	.32	.39	.45	.51	.58	.65	.72	.79	.84	.90
25°	.08	.16	.24	.33	.40	.49	.58	.67	.75	.83	.90	.99	1.06	1.14
30°	.10	.19	.29	.39	.49	.59	.69	.79	.89	.99	1.09	1.20	1.29	1.39
35°	.11	.22	.34	.47	.58	.69	.79	.81	.92	1.04	1.29	1.42	1.54	1.66
40°	.13	.26	.40	.53	.67	.80	.93	1.06	1.20	1.34	1.49	1.64	1.79	1.94
45°	.15	.30	.44	.60	.76	.91	1.06	1.21	1.37	1.52	1.70	1.87	2.04	2.21
50°	.17	.34	.51	.68	.85	1.02	1.19	1.36	1.54	1.72	1.91	2.10	2.29	2.48
55°	.19	.38	.57	.76	.95	1.14	1.32	1.52	1.72	1.92	2.14	2.35	2.56	2.77
60°	.21	.42	.63	.84	1.05	1.27	1.49	1.71	1.94	2.17	2.38	2.60	2.83	3.07
65°	.23	.46	.69	.93	1.16	1.40	1.64	1.88	2.13	2.38	2.63	2.88	3.13	3.39
70°	.25	.51	.76	1.02	1.28	1.54	1.80	2.06	2.33	2.60	2.88	3.16	3.44	3.72
75°	.27	.56	.83	1.12	1.40	1.69	1.98	2.27	2.57	2.87	3.16	3.47	3.78	4.09
80°	.30	.61	.91	1.22	1.53	1.84	2.15	2.46	2.78	3.10	3.44	3.78	4.12	4.46
85°	.33	.66	1.00	1.33	1.68	2.02	2.36	2.70	3.05	3.40	3.77	4.14	4.55	4.89
90°	.36	.72	1.09	1.45	1.83	2.20	2.57	2.94	3.32	3.70	4.10	4.50	4.91	5.32
95°	.39	.79	1.19	1.55	2.00	2.40	2.80	3.20	3.61	4.02	4.40	4.85	5.38	5.83
100°	.43	.86	1.30	1.74	2.18	2.62	3.06	3.50	3.95	4.40	4.88	5.37	5.85	6.34
110°	.51	1.03	1.56	2.08	2.61	3.14	3.67	4.21	4.76	5.31	5.86	6.43	7.01	7.60
120°	.62	1.25	1.93	2.52	3.16	3.81	4.45	5.11	5.77	6.44	7.12	7.80	8.50	9.22

FOR EXTERNALS ADD

Central Angle	DEGREE OF CURVE													
	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°	70°
10°	.001	.003	.004	.006	.007	.008	.009	.011	.012	.014	.015	.017	.018	.020
15°	.003	.007	.010	.014	.018	.023	.027	.029	.032	.035	.039	.043	.047	.051
20°	.006	.011	.017	.022	.028	.034	.038	.045	.051	.057	.063	.070	.076	.083
25°	.009	.018	.027	.036	.046	.056	.065	.074	.083	.093	.106	.120	.127	.135
30°	.013	.025	.038	.051	.065	.078	.090	.103	.116	.129	.149	.170	.179	.188
35°	.018	.035	.054	.072	.086	.109	.131	.153	.175	.197	.213	.230	.247	.264
40°	.023	.046	.070	.093	.117	.141	.172	.203	.234	.265	.277	.290	.315	.341
45°	.030	.060	.093	.119	.153	.184	.216	.254	.289	.325	.351	.378	.411	.445
50°	.037	.075	.116	.151	.189	.227	.266	.305	.345	.384	.425	.467	.508	.550
55°	.046	.093	.142	.188	.236	.283	.332	.381	.420	.479	.530	.582	.641	.700
60°	.056	.112	.168	.225	.283	.340	.398	.457	.516	.575	.636	.697	.774	.851
65°	.067	.135	.204	.273	.343	.412	.483	.554	.625	.697	.711	.845	.922	1.01
70°	.080	.159	.240	.321	.403	.485	.568	.652	.735	.819	.906	.994	1.08	1.17
75°	.095	.182	.266	.353	.440	.528	.617	.707	.797	.877	.977	1.07	1.18	1.29
80°	.110	.220	.332	.445	.558	.671	.787	.903	1.02	1.13	1.25	1.38	1.50	1.62
85°	.128	.259	.391	.524	.657	.790	.926	1.06	1.20	1.34	1.47	1.62	1.76	1.91
90°	.149	.299	.450	.603	.756	.910	1.07	1.22	1.38	1.54	1.70	1.87	2.03	2.20
95°	.174	.350	.522	.706	.885	1.06	1.25	1.43	1.62	1.80	1.99	2.18	2.38	2.58
100°	.200	.401	.604	.809	1.01	1.22	1.43	1.64	1.85	2.06	2.28	2.50	2.73	2.96
110°	.268	.536	.806	1.08	1.35	1.63	1.91	2.20	2.48	2.76	3.05	3.35	3.66	3.96
120°	.360	.721	1.08	1.45	1.82	2.19	2.57	2.95	3.33	3.72	4.11	4.50	4.91	5.32

ALVORADO REGULATING RESERVOIR.

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CONTROL MONUMENTS:

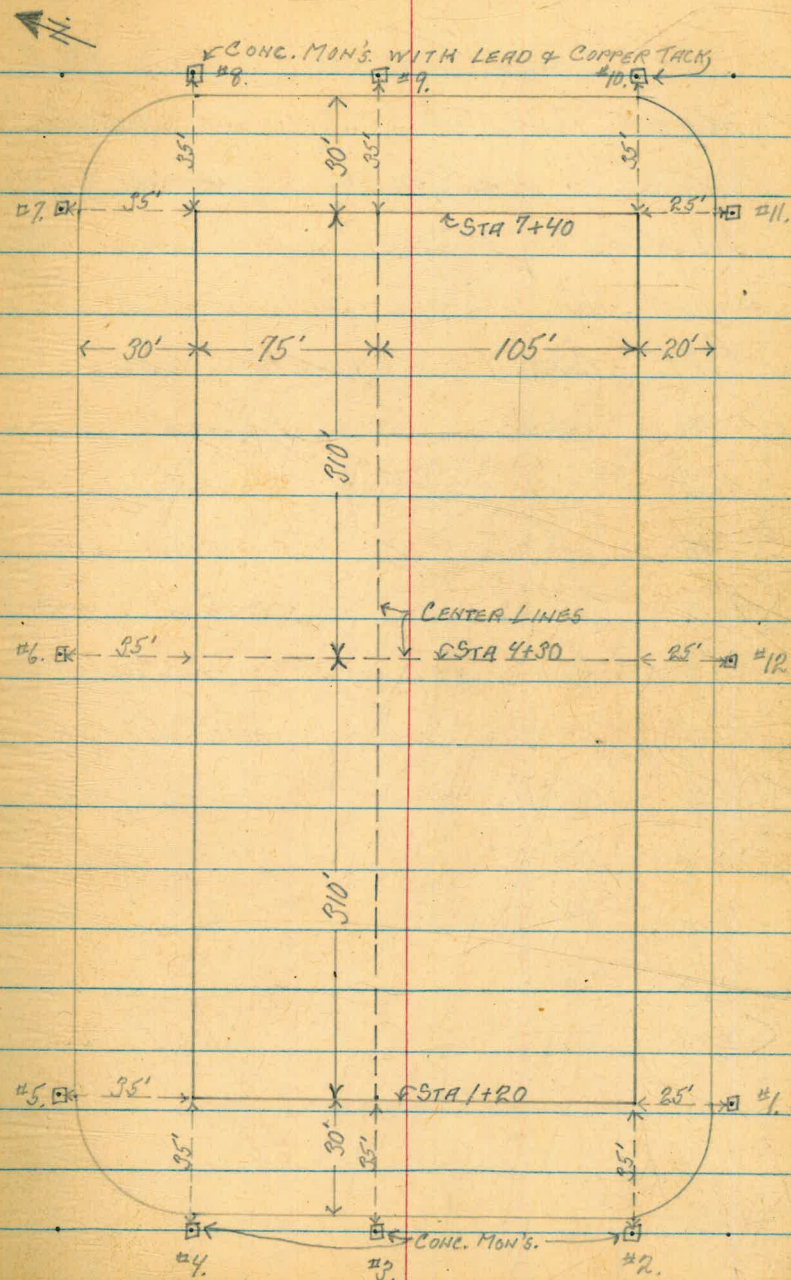
ALVARADO REGULATING RESERVOIR.

OCT. 25, 1948. LEONARD SHIPTON WEST. 1.

NOTE: 12 CONCRETE MONUMENTS WITH LEAD PLUG AND COPPER TACK AS CENTER SET AROUND TOP OF RESERVOIR AS INDICATED ON OPPOSITE PAGE.

EACH MONUMENT IS ABOUT 1' IN DIAMETER BY 1.5' IN DEPTH, WITH THE TOP RECESSED ABOUT 8" BELOW THE SURFACE OF THE ROADWAY.

CONTROL POINTS SET FROM R.P.'s AT THE S.W. CORNER OF THE RESERVOIR AS SHOWN IN F.R. 691, AND USING THE NUB & TACK SET ON THE NORTH SLOPE OF THE CANYON TO ESTABLISH THE LINE OF STATION 1+20.



ALVARADO REGULATING
RESERVOIR.

NOV. 3, 1948 LEONARD
SHIPMAN
WEST.

2.

X-SECTIONS RECHECK. EAST END

STATION.	+	H.d.	-	ELEV.
B.M. ON DAM.	+0.93	537.32		536.39
T.P. ON E MAX.	+3.15	532.32	-8.15	529.17
STA. 7+70.6 105 S		GRADE 530.00	2.20	530.12
" 85 S		"	2.19	30.13
" 65 S		"	2.21	30.11
" 45 S		"	2.34	29.98
" 25 S		"	2.19	30.13
" 5 S		"	2.39	29.93
" 15 N		"	2.25	30.07
" 35 N		"	2.18	30.14
" 55 N		"	2.25	30.07
" 75 N		"	2.26	30.06
7+67.6 75 H		GRADE 528.00	4.16	28.16
" 55 H		"	4.07	28.25
" 35 H		"	3.98	28.34
" 15 H ON RAMP		"	2.24	
" 5 S		"	2.50	
" 25 S		"	4.26	28.06

STATION	+	Hid.	-	ELEV.
7+67.6 cont'd 45s		532.32 ✓	4.16	528.16
" 65s	GRADE =	528.00	3.90	28.47
" 85s	"	"	4.02	28.30
" 105s	"	"	4.09	28.23
7+64.6 105s	GRADE =	526.00	6.19	526.13
" 85s			5.93	26.39
" 65s			5.91	26.41
" 45s			6.26	26.06
" 25s			6.34	25.98
" 35N			6.02	26.30
" 55N			6.17	26.15
" 75N			6.14	26.18
7+61.6 75N	GRADE =	524.00	8.10	24.22
" 55N			8.15	24.17
" 35N			7.94	24.38
" 25s			8.16	24.16
" 45s			8.08	24.24
" 65s			7.79	24.53
" 85s			8.09	24.23
" 105s			8.19	24.13

9.

STATION:	+	Hid.	-	ELEV.
7+58.6 105s		532.32 ✓	10.21	522.11
" 85s	GRADE =	522.00	10.00	22.32
" 65s			9.78	22.54
" 45s			11.09	22.23
" 25s			9.90	22.42
" 35N			9.98	22.34
" 55N			10.32	22.00
" 75N			10.08	22.24
7+55.6 75N	GRADE =	520.00	11.99	20.33
" 55N			12.18	20.14
" 35N			12.04	20.28
" 25s			11.97	20.35
" 45s			12.10	20.22
" 65s			11.77	20.55
" 85s			11.94	20.38
" 105s			11.92	20.40
T.P. ROCK, S.E. COR.			-13.03	519.29 ✓
	+1.47	520.76		

		+	H.d.	-	ELEV.
7+52.6	105s		520.76 ✓	2.48	518.33
	85s	GRADE =	518.00	2.14	18.62
	65s			2.20	18.46
	45s			2.37	18.39
	25s			2.28	18.48
	35N			2.48	18.28
	55N			2.52	18.24
	75N			2.26	18.50
7+49.6	75N	GRADE =	516.00	4.25	16.51
"	55N			4.28	16.48
"	35N			4.27	16.49
"	25s			4.22	16.54
"	45s			4.18	16.58
"	65s			4.10	16.66
"	85s			4.09	16.67
"	105s			4.45	16.31

4.

		+	H.d.	-	ELEV.
7+46.6	105s		520.76 ✓	6.23	514.53
	85s	GRADE =	514.00	6.07	14.69
	65s			6.01	14.75
	45s			6.16	14.60
	25s			6.22	14.54
	35N			6.21	14.55
	55N			6.20	14.56
	75N			6.23	14.53
7+43.6	75N	GRADE =	512.00	8.29	512.47
	55N			8.10	12.66
	35N			8.04	12.72
	25s			8.09	12.67
	45s			8.18	12.58
	65s			8.04	12.72
	85s			8.15	12.61
	105s			8.39	12.37
				-1.47	519.29 ✓
				+11.47	520.76 ✓
				-1.60	529.16 ✓
				+9.23	538.39 ✓
				-2.01	536.38 =
					536.39

T.P. ROCK, S.E. COR.
T.P. MON. & 7+75
CHECK R.M. ON DAM.

Nov. 4, 1948

LEONARD
SHIPMAN
WEST.

5.

X-SECTIONS - RECHECK

WEST END.

B.M. on Dam	+	H.I.	-	536.89	T.B.M. CONC. MON. STA 1+20 5130	+4.71	534.46		529.75
	2.12'	538.51 ✓			STA. 0+89.4	105 S	GRADE = 530.00	-4.34	530.12
T.B.M. CONC. MON. Q. AXIS 7+75			-9.84	529.17 ✓	"	85 S	"	-4.71	29.75
	+6.10	535.27 ✓			"	65 S	"	-4.61	29.85
Mon. AT 1+20, S. 130			-5.52	529.75 ✓	"	45 S	"	-4.69	29.77
Mon. AT 4+30, S. 130			-5.44	529.83	"	25 S	"	-4.57	29.89
					"	05 S	"	-4.61	29.85
					"	15 N	"	-4.64	29.87
					"	35 N	"	-4.80	29.66
					"	55 N	"	-4.81	29.65
					"	75 N	"	-4.72	530.24
					0+95.4	75 N	GRADE = 526.00	-8.24	526.22
					"	55 N		-8.42	26.04
X-SECTIONS - CONT'D.		H.I. 534.46	-		"	35 N		-8.60	25.86
0+95.4	85 S	GRADE = 526.00	-8.49	25.99	"	15 N		-8.52	25.94
"	105 S	"	-8.38	26.08	"	05 S		-8.70	25.76
CHECK T.B.M.			-4.71	529.75	"	25 S		-8.55	25.91
					"	45 S		-8.48	25.98
					"	65 S		-8.46	26.00

← contd.

Nov. 17, 1948 LEONARD - CORNS
WEST - R 6.
PAYNE - ROD

T.B.M.'s.
CHECK LEVELS IN BOTTOM OF REGULATING RES.

R.M.	+1.02	537.41		536.39 ON DAM
T.B.M. MON. 2 RES. 725			-8.26	529.15
T.P. GAD	+0.265	525.265	-12.41	525.00
T.P. GAD	+1.20	514.415	-16.05	513.215
W. BRIDGE OF INLET BOX. CHECK R.M. IN SILL.			-4.445	509.27 = (PRINTED 510.04)
	+4.38	514.30		
T.P. GAD	+11.21	524.48	-1.08	513.27
T.P. GAD	+12.40	536.47	-0.36	524.07
			-0.14	536.33 ON DAM
R.M.	+1.10	537.49		536.39 ON DAM (PAGE 2.)
T.P. MON. ON E RES.			-8.32	529.17 = 529.17
	+1.61	530.78		
T.P. GAD			-10.32	520.46
	+0.50	520.96		
R.M. IN SILL OF INLET BOX			-10.92	510.04 = 510.04
T.B.M. SE COR. N. OUTLET STR.			-8.95	512.00
	+2.51	514.51		
T.B.M. N.E. COR. W. OUTLET STR.			-2.51	512.00
CHECK R.M.	+2.63	514.63	-4.59	510.04

Nov. 17, 1948
Clear.

LEONARD, Book 7.
WEST, R
RYNE, Rod

CHECK SUR. GRADE HUBS IN RESERVOIR FLOOR.

LOCATION	+	H.d.	-	ELEV. of hub
B.M.	+ 4.43	514.47		510.04
5+787 72 N			- 2.81	510.66
" " HUB		509.63	- 4.85	509.64 + 01
" 60.75 HUB		" .41	- 5.06	509.41 OK
7+10 102.5 "		" .63	- 4.79	509.68 + 05 105 HI
" 60.75 "		" .41	- 5.09	509.38 - 03
" 20 S "		" .63	- 4.84	509.63 OK
" 32.5 N "		" .37	- 5.09	509.38 + 01
" 72 N "		" .63	- 4.87	509.60 - 03
6+80 72 N "		" .63	- 4.86	509.61 - 02
" 32.5 N "		" .37	- 5.10	509.37 OK
" 20 S "		" .63	- 4.86	509.61 - 02
" 60.75 "		" .41	- 5.07	509.40 - 01
" 102.5 "		" .63	- 4.86	509.61 - 02
6+80 102.5 "		" .63	- 4.84	509.63 OK
" 60.75 "		" .41	- 5.08	509.39 - 02
" 20 S "		" .63	- 4.85	509.62 - 01
" 06.2 N "		" .50	- 4.99	509.48 - 02
" 32.5 N "		" .37	- 5.12	509.35 - 02
" 72 N "		" .63	- 4.89	509.58 .05 LOW - 05

STATION	+	H.d. 514.47 SUB. GRADE	-	ELEV.	
5+80	72N	509.63	-4.86	509.61	-02
"	32.5N	.57	-5.10	509.37	OK
"	62.5N	.50	-4.98	509.54	+04
"	20.5	.63	-4.85	509.62	-01
"	60.75	.41	-5.05	509.47	+01
"	102.5	.63	-4.86	509.61	-02
5+90	102.5	.63	-4.87	509.65	+02
"	60.75	.41	-5.08	509.39	-02
"	20.5	.63	-4.84	509.63	OK
"	62.5N	.50	-4.99	509.48	-02
"	32.5N	506.54 HUR IN DITCH	-7.39	507.08	INV. GRADE IS 507.14
"	72N	509.63	-4.87	509.60	-03
4+80	72N	.63	-4.85	509.62	-01
	32.5N	.37	-5.08	509.39	+02
	62.5N	.50	-4.98	509.49	-01
	20.5	.63	-4.85	509.62	-01
	60.75	.41	-	RURIED 4'	
	102.5	.63	-	RURIED	
		NORTH BANK			
		T.B.M. SE. COR. OUTLET STR.	-2.47	512.00	

STATION:	t	H.d.	-	FLEV.	
					N. OUTLET STR. S.E. COR.
T.R.M.	2.57	514.57		512.00	
		SUB. GRADE.			
4+30 72N		509.63	-4.99	509.58	-03
" 32.5N		.37	-5.24	509.33	-04
" 62.5N		.50	-5.08	509.49	-01
" 20.5		.63	-4.96	509.61	-02
" 60.75		.41	-5.12	509.45	+04
" 102.5		.63	-4.96	509.61	-02
8+80 102.5		.63	-4.97	509.60	-03
" 60.75		.41	-5.20	509.37	-04
" 20.5		.63	-4.97	509.60	-03
" 62.5N		.50	-5.09	509.48	-02
" 32.5N		.37	-5.23	509.34	-03
" 72N		.63	-4.99	509.58	-05
8+50 72N		.63	-4.98	509.59	-04
" 32.5N		.37	-5.21	509.36	-01
" 62.5N		.50	-5.10	509.47	-03
" 20.5		.63	-4.98	509.59	-04
" 60.75		.41	-5.21	509.36	-05
" 102.5		.63	-4.94	509.63	OK

STATION	+	H.d.	-	ELEV.
		514.57		
		SUB. GRADE		
2+80 102.5		509.63	-4.94	509.63 OK
" 60.75		.41	-5.18	509.39 -02
" 20.5		.63	-4.95	509.62 -01
" 62.5N		.50	-5.10	509.47 -03
" 82.5N		.37	-5.22	509.35 -02
" 72.N		.63	-4.98	509.59 -04
2+80 72.N		.68	-4.97	509.60 -03
" 82.5N		.37	-5.21	509.36 -01
" 62.5N		.50	-5.11	509.46 -04
" 20.5		.63	-4.96	509.61 -02
" 60.75		.41	-5.20	509.37 -04
" 102.5		.63	-	HUB LOST (SPINTERED)
1+80 102.5		.63	-4.94	509.63 OK
" 60.75		.41	-5.16	509.41 OK
" 20.5		*.58	-4.94	509.63 +0.5
" 62.5N		*.55	-5.13	509.44 -11
" 82.5N		.37	-5.20	509.37 OK
" 72.N		.63	-4.97	509.60 -03

* PROPORTIONATE DUE TO ANGLE IN DIVERSION WALL.

	+	H. I.	-	ELEV.	
		514.57			
		SUB. GRADE			
1+50 72 N		509.63	-4.96	509.61	-02
" 82.5 N		.37	-5.24	509.83	-04
" 62.5 N	*	.60	-5.10	509.47	-13
" 20.5	*	.53	-4.95	509.62	+09
" 60.75		.41	-5.19	509.88	-03
" 102.5		.63	-4.94	509.63	OK
1+23 102.5		.63		BURIED	
" 60.75		.41	-5.20	509.87	-04
" 20.5	*	.53	-4.96	509.61	+08
" 62.5 N	*	.58	-5.11	509.46	-12
" 82.5 N				NO HUB OUTLET STR.	
" 72 N		.63		BURIED	
T.B.M. N.E. COR. WEST END OUTLET STR.			-2.58	511.99 = 512.00	
	+8.53	520.53			
T.P.	+12.80	531.19	-2.14	518.99	HUB IN BANK
CHECK					
T.B.M. M.M. 2 P.S. 275			-2.02	529.17 = 529.17	

* PROPORTIONATE DUE TO ANGLE IN DIVERSION WALL.

Nov. 18, 1948

LEONARD

12.

CLEAR.

WEST

PAYNE.

CHECK GROUND ELEV. IN BOTTOM OF RESERVOIR:

B.M.	+4.91	H. & 514.45	-	510.04
7+87 72N			3.80	510.65 +02
" 32.5N			4.60	509.85 +48
" 20.5			4.98	.47 -10
" 60.7S			4.94	.51 +10
" 102.5			4.91	.54 -09
7+10 102S			4.98	.47 -16
" 60.7S			4.93	.52 +11
" 20.5			4.85	.60 -03
" 32.5N			5.01	.44 +07
" 72.1N			4.60	.85 +22
6+80 72.1N			4.73	.72 +09
" 32.5N			4.99	.46 +09
" 20.5			4.86	.59 -04
" 60.7S			4.95	.50 +09
" 102.5			4.67	.78 +15
6+30 102.5			4.72	.73 +10
" 60.7S			4.91	.54 +13
" 20.5			4.70	.75 +12
" 6.25			4.98	.47 -03

STATION	OFFSET	+	HI	-	ELEV.
			514.45	-	
6+30	32.5 N			5.05	509.40 ⁺⁰³
"	72 N			4.72	.73 ⁺¹⁰
5+80	72 N			4.74	.71 ⁺⁰⁸
"	32.5 N			5.17	.28 ⁻⁰⁹
"	6.25 N			4.87	.58 ⁺⁰⁸
	20 S			4.84	.61 ⁻⁰²
	60.7 S			4.93	.52 ⁺¹¹
	102 S			4.78	.67 ⁺⁰⁴
5+30	102 S			4.74	.71 ⁺⁰⁸
	60.7 S			4.98	.47 ⁺⁰⁶
	20 S			4.85	.60 ⁻⁰³
	6.25 N			5.00	.45 ⁻⁰⁵
	32.5 N		506.64	8.21	506.24
	72 N			4.64	.81 ⁺¹⁸
T.R.M. S.E. COR. NORTH OUTLET STR.				2.45	512.00
		2.24	514.24		
T.R.M. N.E. COR. WEST OUTLET STR.				2.24	512.00

STATION	OFFSET	+	HI	-	ELEV.
			514.24		
4+80	72 N			4.58	509.66 ⁺⁰³
"	37.5 N			4.96	.28 ⁻⁰⁹
"	6.25 N			4.80	.44 ⁻⁰⁶
"	20 S			4.64	.60 ⁻⁰³
"	60.7 S			4.93	.31 ⁻¹⁰
"	102 S			4.39	.85 ⁺²²
4+30	102 S			4.47	.77 ⁺¹⁴
"	60.7 S			4.65	.59 ⁺¹⁸
"	20 S			4.73	.41 ⁻²²
"	6.25 N			4.87	.37 ⁻¹³
"	32.5 N			4.86	.38 ⁺⁰¹
"	72 N			4.65	.59 ⁻⁰⁴
3+80	72 N			4.61	.63 ^{OK}
	37.5 N			4.92	.32 ⁻⁰⁵
	6.25 N			4.67	.57 ⁺⁰⁷
	20 S			4.52	.72 ⁺⁰⁹
	60.7 S			4.71	.53 ⁺¹²
	102 S			4.64	.60 ⁻⁰³

STATION	OFFSET	+	HI	-	ELEV.
			514.24	-	
3+30	102 S			4.51	509.73 ⁺¹⁰
"	60.7 S			4.77	4.7 ⁺⁰⁶
"	20 S			4.65	.59 ⁻⁰⁴
"	6.25 N			4.74	.50 ^{OK}
"	32.5 N			4.88	.36 ⁻⁰¹
"	72 N			4.54	.70 ⁺⁰⁷
2+80	72 N			4.60	.64 ⁺⁰¹
"	32.5 N			4.97	.27 ⁻¹⁰
"	6.25 N			4.71	.53 ⁺⁰³
"	20 S			4.66	.58 ⁻⁰⁵
"	60.7 S			4.68	.56 ⁺¹⁵
"	102 S			4.45	.79 ⁺¹⁶
2+30	102 S			4.48	.76 ⁺¹³
"	60.7 S			4.74	.50 ⁺⁰⁹
"	20 S			4.58	.66 ⁺⁰³
"	6.25 N			4.76	.48 ⁻⁰²
"	32.5 N			4.97	.27 ⁻¹⁰
"	72 N			4.75	.49 ⁻¹⁴

STATION	OFFSET	+	H.d.	-	ELEV.
			514.24	-	
1+80	72 N			4.69	509.55 ⁻⁰⁸
"	32.5 N			4.83	.41 ⁺⁰⁴
"	6.25 N			4.87	.37 ⁻¹³
"	20 S			4.49	.75 ⁺¹²
"	60.7 S			4.80	.44 ⁺⁰³
"	102 S			4.61	.63 ^{OK}
1+50	102 S			4.76	.48 ⁻¹⁵
"	60.7 S			4.71	.53 ⁺¹²
"	20 S			4.60	.64 ⁺⁰¹
"	6.25 N			4.72	.52 ⁺⁰²
"	32.5 N			4.52	.72 ⁺³⁵
"	72 N			4.75	.49 ⁻¹⁴
1+23	72 N			4.81	.43 ⁻²⁰
"	40 N			4.52	.72 ⁺³⁵
	6.25 N			4.39	.85 ⁺⁴⁸
	20 S			4.56	.68 ⁺⁰⁵
	60.7 S			4.70	.54 ⁺¹³
	102 S			4.79	.45 ⁻¹⁸

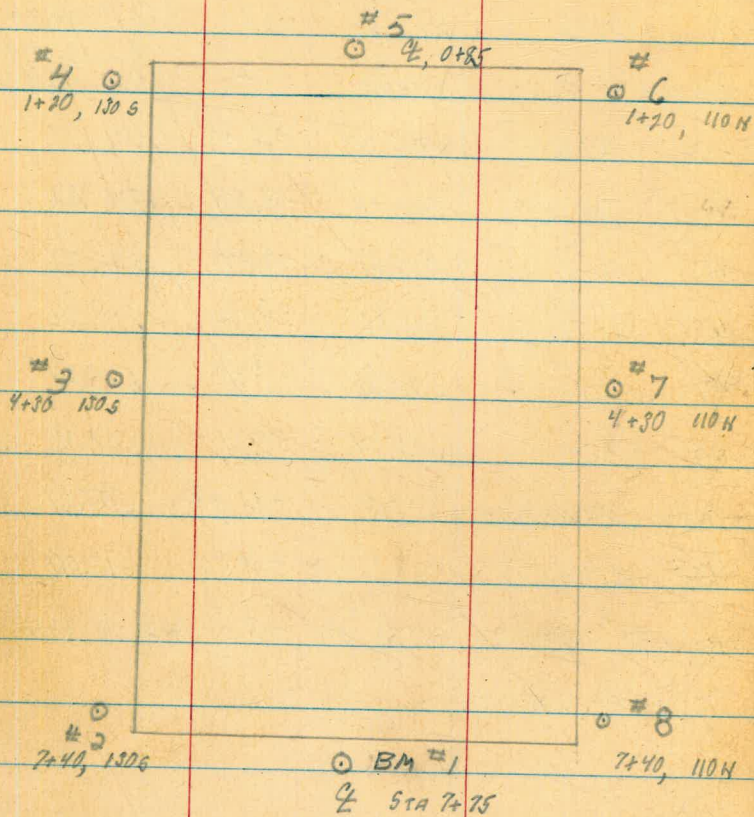
NOV. 18, 1948 LEONARD
WEST
PAYNE.

17.

CHECK ELEV. OF 10" I.O. STEEL DRAIN IN RESERVOIR.

LOCATION	H. d.	CORRECT GRADE	-	NORTH OUTLET 512.00 S.E. COR. ACTUAL GRADE INV. ELEV.
B.M. + 2.36	514.36			
5+05	60.25	506.30	-8.04	506.32
"	20 S INLET	505.83	-8.54	505.82
"	32 N. INLET	505.21	-9.09	505.27
"	32.5 N	505.21	-9.12	505.24
"	OUTLET 33 N	505.21	-9.12	505.24
5+80	32.5 N	507.14	-7.31	507.05 .09 LOW
CONNECTION TO EXIST LINE		503.3	-11.09	503.87
CHECK T.R.M.			-2.36	512.00

NOTE: .88' ADDED TO SHOTS ON TOP OF PIPE TO SHOW
INVERT GRADE.



See page #1 for accurate location of monuments

Elev on monuments
at Alvarado Regulating
Reservoir

Nov 26

Windy

Cold

West
Payne 18.

Station	+	HI	-	Elevation
BM on Dam	0.69	537.08		536.39
TP. BM #1	5.68	534.84	7.92	529.16
BM #2			5.37	529.47
BM #3			5.01	529.83 <small>JAN 25. 1948. SETTLED .015</small>
BM #4			5.09	529.75 <small>.76 ADJUSTED</small>
BM #5			5.21	529.63 <small>.64 ADJUSTED</small>
BM #6	USE LEAD PLUG.		5.00	529.84
BM #7	USE LEAD PLUG.		4.91	529.93 <small>.92 ADJUSTED</small>
BM #8	NAIL IN SQUARE		4.95	529.89 <small>.90 ADJUSTED</small>
check #1			5.68	529.16

Nov. 30, 1948.

NOTE: CONCRETE NAILS DRIVEN INTO B.M.'s ABOVE, EXCEPT #7,
AND CEMENT SMOOTHED OFF AROUND NAILS TO MAKE
IMPROVED B.M.'s. SEE NEXT PAGE FOR LEVELS OVER
B.M.'s AFTER SETTING NAILS.

19. Bernard.

Nov. 30, 1948

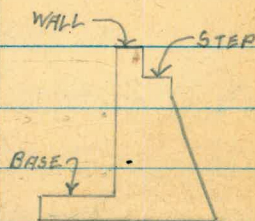
LEONARD
WEST
PINELeonard
West
Payne

Nov. 29, 30, 1948

Check forms on north
doping wallFair
Warm

RECHECK B.M.'s ON MON'S AROUND RESERVOIR.

B.M. ON DAM.	+0.910	537.900	536.89	Station	+	H _i	-	Elevation
NAIL IN SQUARE, B.M. #8 N.E. COR.			Adj. .904 529.903	BM #6	+3.86	533.71		529.85
	+3.935	533.838				Grade	Grade rod	
B.M. #7, LEAD PLUG IN MON. CENTER. NORTH SIDE			Adj. .919 529.916	Top of Base		530.00	3.91	
	+3.794	533.710		Step Elev		531.84	1.87	
B.M. #6, MON. N.W. COR. NAIL IN SQUARE LEAD PLUG IN MON. AT N.W. COR. SAME AS #6.			Adj. .855 529.851	Top of wall		532.26	1.45	
			Adj. .830 529.826	FORM #1. 6TA 1+15.27	Base		-3.77	529.94 .06 Low
	+5.105	534.931		"	Wall		-1.47	532.24 .02 Low
B.M. #5, MON. W. Q NAIL IN E STA 0+85			Adj. .643 529.638	"	Steps		-1.88	531.83 .01 Low
	5.188	534.826		1+41.5	Base		-3.85	529.86 .14 Low
B.M. #4, MON. S.W. COR. NAIL IN D STA 1+20 1305			Adj. .761 529.755	"	Wall		-1.47	532.24 .02 Low
	+3.945	533.700		"	Steps		-1.87	531.84 O.K.
B.M. #3, MON. Q S. SIDE. NAIL IN E STA 4+20 1305			Adj. .825 529.818	1+67.7	Base		-3.75	529.96 .04 Low
	+3.788	533.606		"	Wall		-1.46	532.25 .01 Low
B.M. #2, MON. S.E. COR. NAIL IN D 7+40 1305			Adj. .470 529.462	"	Steps		-1.87	531.84 O.K.
	+4.868	533.825		FORM #2.				
B.M. #1, MON. Q E. END NAIL IN D 7+75			Adj. .164 529.155	2+20.14	Base		-3.77	529.94 .06 Low
	+11.187	540.342		"	Wall		-1.47	532.24 .02 Low
CHECK B.M. ON DAM			-3.961 536.891 = 536.890 RECOND. .009 OFF	"	Steps		-1.87	531.84 O.K.



CHECK FORMS - NORTH COPING WALL - CONT'D

20.

H.d.
533.71

- ELEV.

H.d.
533.71

- ELEV.

Sta	Description	Offset	Elev.	Remarks	Offset	Elev.	Remarks
2+46.4	Base	-3.72	529.99	.01 Low Form #4			
"	Wall	-1.48	532.25	.03 Low	4+29.97	-3.68	530.03 .03 Hi
"	Step	-1.87	531.84	O.K.	"	-1.47	532.24 .02 Low
2+72.59	Base	-3.72	529.99	.01 Low	"	-1.88	531.83 .01 Low
"	Wall	-1.47	532.24	.02 Low	4+56.2	-3.76	529.95 .05 Low
"	Step	-1	531.84	O.K.	"	-1.45	532.26 O.K.
Form #3					"	-1.86	531.86 .02 Hi
3+25.05	Base	-3.72	529.99	.01 Low	4+82.46	-3.72	529.99 .01 Low
"	Wall	-1.45	532.26	O.K.	"	-1.47	532.24 .02 Low
"	Step	-1.86	531.85	.01 Hi	"	-1.87	531.84 O.K.
3+51.3	Base	-3.78	529.93	.07 Low			
"	Wall	-1.46	532.25	.01 Low	CHECK R.M. # 6	-3.86	529.85 CONC. MAX. HWY. COR.
"	Step	-1.87	531.84	O.K.			
3+77.52	Base	-3.75	529.98	.07 Low			
"	Wall	-1.46	532.25	.01 Low			
"	Step	-1.86	531.85	.01 Hi			

Nov. 30, 1948 LEONARD
WEST,
PAYNE.

CHECK FORMS FOR FOOTINGS, NORTH BANK

N.E. CORNER					
B.M. OUTLET, W. END	+7.30	519.80		512.00	
STA 1+15.24 N86.67	" 1.	GRADE: 518.91	-0.89	ACTUAL ELEV. 518.91	
" 1+41.47	" 2.	518.41	-0.89	518.41	
" 1+67.70	" 3.	"	-0.90	518.40	
" 1+95.95	" 4.	"	-0.89	518.41	
" 2+20.16	" 6.	"	-0.90	518.40	
" 2+46.89	" 6.	"	-0.89	518.41	
" 2+72.62	" 7.	"	-0.89	518.41	
" 2+98.85	" 8.	"	-0.89	518.41	
CHECK B.M.			-7.30	512.00	

NOTE: A 13 1/2" SQUARE BLOCK, 1" THICK, WILL BE SET IN THE CENTER OF EACH FOOTING FORM AS THE CONCRETE IS POURED, TO FORM THE 1" DEEP RECESS FOR THE END OF EACH PILLER. THIS 1" RECESS BELOW TOP OF FORM AS GIVEN ABOVE WILL MAKE THE CORRECT GRADE WITHIN .01' ON EACH FORM.

Dec. 5, 1948 LEONARD,
WEST,
PAYNE. 21.

CHECK SUB-GRADE AFTER BLADING, NORTH HALL.

B.M.	+7.30	514.85		512.00 W. OUTLET.
STATION	OFFSET	GRADE		ACTUAL ELEV
1+28	53.75N	509.50	-4.83	509.50
"	72 N	509.61	-4.95	509.88 HUB
"	06.2 N	509.63	-4.78	509.60
"	72 N	509.61	-4.82	509.61 Set Hub.
"	75 N	509.38	-4.85	509.48 .15 H
1+50	6.65N	509.60	4.71	509.62 HUB
"	32.5N	509.87	-4.98	509.35 HUB
"	53.7 N	509.50	-4.82	509.51 HUB
"	72.0 N	509.61	-4.51	509.52 GROUND
"	76.0 N	509.61	-4.72	509.61 Set HUB
"	76.0 N	509.38	-4.87	509.46 12 H
1+80	6.25N	509.50	-4.91	509.52 HUB
"	32.5N	509.87	-4.95	509.58 HUB
"	53.7 N	509.50	-4.83	509.50
"	72.0 N	509.50	-4.80	509.58 HUB
"	72.0 N	509.61	-4.78	509.60 HUB
"	76.0 N	509.38	-4.79	509.54 .21 H
B.M. W. END			-2.32	LEVEL SETTLED .01
CHECK H.d.				512.01 = 512.00

CHECK SUB GRADE - NORTH SIDE, CONT'D.

STATION:	OFFSET:	GRADE:	-	ELEV.	STATION:	OFFSET:	GRADE:	-	ELEV.
H.d.		514.32			H.d.		514.32		
2+30	6.25 N.	509.50	4.85	509.47 HUB	3+80	72.0 N	509.61	-4.78	509.59 HUB 14 H.
"	32.5 N.	" .37	4.95	" .37 HUB	"	76.0 N	" .38	-4.55	" .77 GROUND
"	53.7 N	" .50	-4.81	" .51 HUB	4+30	6.25 N	" .50	-4.82	" .50 SET HUB
"	72.0 N	" .61	-4.72	" .60 HUB	"	32.5 N	" .37	-4.96	" .36 HUB
"	75.0 N	" .33	-4.66	" .67 GND	"	53.7 N	" .50	-4.81	" .51 HUB
2+80	6.25 N	" .50	-4.82	" .50 HUB	"	72.0 N	" .61	-4.78	" .59 HUB
"	32.5 N	" .37	-4.95	" .37 HUB	"	76.0 N	" .38	-4.68	" .64 GROUND 14 H.
"	53.7 N	" .50	-4.82	" .50 HUB	4+90	6.25 N	" .50	-4.82	" .50 HUB
"	72.0 N	" .61	-4.72	" .60 HUB	"	32.5 N	" .37	-4.95	" .37
"	76.0 N	" .38	-4.42	" .90 GND	"	53.7 N	" .50	-4.82	" .59 HUB
3+30	6.25 N	" .50	-4.88	" .49 HUB	"	53.7 N	" .50	-4.82	" .50
"	32.5 N	" .37	-4.94	" .38 HUB	"	72.0 N	" .61	-4.71	" .61
"	54 N 53.7 N	" .50	-4.82	" .49 HUB	"	75.0 N	" .38	-4.29	" .63 HUB 80 H.
"	72.0 N	" .61	-4.72	" .60 HUB	5+30	6.25 N	" .50	-4.82	509.50 HUB
"	75.0 N	" .33	-4.75	" .57 GND	"	32.5 N	507.14	-7.25	507.07 PIPE INVERT
3+80	6.25 N	" .50	-4.82	" .50 HUB	"	53.7 N	508.44	-5.98	508.44 TOP SUMP
"	32.5 N	" .37	-4.96	" .36 HUB	"	53.7 N	509.50	-4.92	509.50 HUB
"	53.7 N	" .50	-4.82	" .50	"	72.0 N	" .61	-4.71	" .61 HUB
		" .50	-4.82	" .50	"	75.0 N	" .38	-4.29	510.13 GROUND 80 H.
		" .50	-4.82	" .50	NORTH OUTLET STR. CHECK D.M.			-2.31	512.01 = 512.00

CHECK SUB-GRADE, NORTH SIDE, CONT'D,

STATION		GRADE	-	ELEV.		GRADE	-	ELEV.
R.M.	+2.11	H.d. 514.11		512.00 N. OUTLET.	H.d.	514.11		
5+80	6.25 N	509.50	4.61	509.50	7+10	72 N	509.61	4.61 509.60 HUB
"	32.5 N	" .87	4.61	509.54 Set HUB	"	76 N	" .83	4.29 " .82
"	53.7 N	" .50	4.61	" .80 GROUND				
"	72.0 N	" .61	4.74	" .87 HUB SET	7+37	NOT READY FOR CHECKING.		
"	75.0 N	" .83	-4.61	" .50 "	CHECK			
6+80	6.25 N	" .50	-4.61	" .60 "	R.M. INLET STR.	-4.08	510.03 = 510.04	REC.
"	32.5 N	" .87	-4.60	" .51 GROUND	5+05 32.5 N			
"	53.7 N	" .50	-4.60	" .49 HUB	SUMP INLET	507.56	-6.58	507.53 .03 LOW
"	72.0 N	" .61	-4.60	" .30 HUB	5+05 32.5 N			
"	76.0 N	" .83	-4.60	" .30 HUB	PIPE INVERT	505.21	-8.90	505.21
6+80	6.25 N	" .50	-4.61	" .50 HUB	5+05 60.75			
"	32.5 N	" .87	-4.61	" .59 HUB	SUMP INLET	507.60	-6.51	507.60
"	53.7 N	" .50	-4.61	" .59 HUB	5+05 60.75			
"	72.0 N	" .61	-4.52	" .89 GROUND	PIPE INVERT	506.30	-7.80	506.31 .01 HI
"	76.0 N	" .83	-4.52	" .89 GROUND	5+30 32.5 N			
6+80	6.25 N	" .50	-	" RAMP	SUMP INLET	508.44	-5.67	508.44
"	32.5 N	" .87	4.67	" BURIED-ROCKS	5+30 32.5 N			
"	53.7 N	" .50	4.67	" .44 GROUND	PIPE INVERT	507.14	-7.04	507.07 .07 LOW
"	72.0 N	" .61	4.62	" .49 HUB				
"	75.0 N	" .83	4.73	" .59 HUB				
7+10	6.25 N	" .50		" .89 GROUND				
"	32.5 N	" .87		" RAMP				
"	53.7 N	" .50	-4.60	" BURIED				
"	72.0 N	" .61	-4.60	" .51 HUB				

DEC. 8, 1948

LEONARD
WEST
PAYNE

24.

CHECK COPING WALL FORMS, N. SIDE.

529.90

B.M.	+ 5.07	H.d. 534.90	LEAD PLUG IN 529.88 Mon. 26, N.W. COR.							
STA 1+68	BASE	530.00	-4.98	29.92	08' LOW	"	BASE	530.00	-4.91	29.99
"	WALL	532.26	-2.65	32.25		"	WALL	532.26	-2.65	32.25
"	STEP	531.84	-3.06	31.84		"	STEP	531.84	-3.05	31.85
1+94	BASE		-5.06	29.84	16' LOW	4+04	BASE		-4.94	29.96
"	WALL		-2.64	32.26		"	WALL		-2.65	32.25
"	STEP		-3.05	31.85		"	STEP		-3.06	31.84
2+10	BASE		-4.98	29.97		4+29	BASE		-4.86	30.10
"	WALL		-2.65	32.25		"	WALL		-2.65	32.25
"	STEP		-3.05	31.85		"	STEP		-3.06	31.84
2+25	BASE		-4.92	29.98		5+34.87	BASE		-4.89	30.01
"	WALL		-2.66	32.24		"	WALL		-2.63	32.27
"	STEP		-3.05	31.85		"	STEP		-3.05	31.85
2+99	BASE		-5.05	29.85	15' LOW	5+61.10	BASE		-4.94	29.96
"	WALL		-2.65	32.25		"	WALL		-2.64	32.26
"	STEP		-3.06	31.84		"	STEP		-3.04	31.86
3+25	BASE		-4.91	29.99		5+87.33	BASE		-4.90	30.00
"	WALL		-2.64	32.26		"	WALL		-2.63	32.27
"	STEP		-3.06	31.84		"	STEP		-3.05	31.85

CHECK B.M.

-4.98

LEAD, CONC. MON 4+30, N.

529.92 = 529.92

Dec. 8, 1948

CHECK BUTTRESS BLOCK FORMS - W. END

B.M.	+5.16	534.99		529.85	LEAD III MON. 06
0+89	86.66 N	GRADE: 532.46	-2.57	32.77	FORM ELEV.
"	"	531.00	-3.98	31.01	
"	67.33 N	532.55	-2.48	32.56	
"	"	531.00	-3.97	31.02	
"	48.00 N	532.65	-2.34	32.65	
"	"	531.00	-3.98	31.01	
"	28.66 N	532.75	-2.24	32.75	
"	"	531.00	-3.99	31.00	
"	9.33 N	532.84	-2.14	32.85	
"	"	531.00	-3.98	31.01	
"	10.0 S	532.94	-2.06	32.93	
"	"	531.00	-3.99	31.00	
CHECK B.M.			-5.35	529.64	MON 05.

Dec. 8, 1948

CHECK FOOTING FORMS, N. BANK

B.M.	+7.92	519.97		512.00	N. Outlet Str.
3+25.08	86.67 N	GRADE: 518.41	-1.57	518.40	.01 Low
3+51.31	"	"	-1.51	518.41	
3+77.54	"	"	-1.57	518.40	.01 Low
4+03.77	"	"	-1.53	518.39	.02 Low
4+30.00	"	"	-1.51	518.41	
4+56.23	"	"	-1.51	518.41	
4+82.46	"	"	-1.53	518.39	.02 Low
5+08.69	"	"	-1.54	518.38	.03 Low
CHECK B.M.	+8.50	H.D. 520.50	-7.92	512.00	DEC. 15.
5+34.92	86.67 N	GRADE: 518.41	-2.09	518.41	
5+61.15	"	"	-2.10	518.40	.01 Low
5+87.38	"	"	-2.09	518.41	
6+13.61	"	"	-2.09	518.41	
6+39.84	"	"	-2.09	518.41	
6+66.07	"	"	-2.09	518.41	
6+92.30	"	"	-2.09	518.41	
7+18.53	"	"	-2.10	518.40	.01 Low
7+44.76	"	518.91	-1.60	518.90	.01 Low
CHECK B.M.	Inlet Str.		-10.46	510.04	O.K.

LEONARD
WEST
PAYNE.

25.

DEC. 15, 1945

LEONARD
WEST
PAYNE.

CHECK CARING WALL FORMS, N. BANK.

B.M. Mon. #	2.97	H.d. 539.87		529.90
4282.46	BASE	GRADE: 530.00	-3.88	529.99
"	WALL	532.26	-1.61	532.26
"	STEP	531.84	-2.02	531.85 .01 H
5208.69	BASE		-3.92	529.95
"	WALL		-1.60	532.27
"	STEP		-2.03	531.84 .01 H
5284.92	BASE		-3.87	530.00
"	WALL		-1.59	532.29
"	STEP		-2.01	531.86 .02 H
6289.84	BASE		-3.86	530.01
"	WALL		-1.59	532.28
"	STEP		-2.01	531.86 .02 H
6266.07	BASE		-3.85	530.02
"	WALL		-1.59	532.28
"	STEP		-2.02	531.85 .01 H
6292.30	BASE		-3.91	529.96
"	WALL		-1.61	532.26
"	STEP		-2.02	531.85 .01 H
CHECK R.M. #1			-4.72	529.15 = 529.16 REC.

DEC. 16, 1948

LEONARD
WEST
PAYNE

26.

CHECK FOOTING FORMS IN FLOOR OF RESERVOIR

B.M.	+2.33	514.33		512.00	OUTLET STR. W. END
STATION:	OFFSET:	GRADE:			
1+41.47	N 48.00	510.60	-3.74	510.59	
"	N 67.33	510.50	-3.84	" .49	
1+67.70	N 48.00	.60	-3.73	" .60	
"	N 67.33	.50	-3.95	" .48	
1+98.93	N 48.00	.60	-3.74	" .59	
"	N 67.33	.50	-3.84	" .49	
2+20.16	N 48.	.60	-3.73	" .60	
"	N 67.33	.50	-3.84	" .49	
2+46.39	N 48.00	.60	-3.73	" .60	
"	N 67.33	.50	-3.84	" .49	
2+72.62	N 48.00	.60	-3.73	" .60	
"	N 67.30	.50	-3.83	" .50	
2+98.85	N 48.00	.60	-3.72	" .61	
"	N 67.30	.50	-3.82	" .51	
3+25.08	N 48.00	.60	-3.72	" .61	
"	N 67.30	.50	-3.83	" .50	

CONT'D NEXT PAGE:

NOTE .08' ADDED FOR 1" FILLER.

DEC. 21, 1948 LEONARD 27.
WEST
PAYNE

514.33				CHECK COPING WALL FORMS, NORTH SIDE			
STATION: OFFSET:				R.M.	+5.51	5+549	529.92 Mon. #7
2+51.81 N48.00	510.60	-3.72	510.61	5+87.28	BASE	5.80	-5.42 530.01
" N67.33	" .50	-3.83	" .50	"	WALL	532.76	-3.16 532.27
3+77.54 N48.00	" .60	-3.73	" .60	"	STEP	531.84	-3.56 531.87 .03 H.
" N67.33	" .50	-3.83	" .60	612.61	BASE		-5.62 529.81
4+03.77 N48.00	" .60	-3.73	" .60	"	WALL		-3.17 532.26
" N67.33	" .50	-3.83	" .50	"	STEP		-3.58 531.85 .01 H.
4+30.00 N48.00	" .60	-3.73	" .60	639.84	BASE		-5.99 530.04
" N67.33	" .50	-3.83	" .60	"	WALL		-3.15 532.28
4+56.23 N48.00	" .60	-3.73	" .60	"	STEP		-3.57 531.86 .02 H.
" N67.33	" .50	-3.82	" .51	6+92.30	BASE		-5.47 529.96
4+82.46 N48.00	" .60	-3.73	" .60	"	WALL		-3.17 532.26
" N67.33	" .50	-3.84	" .49	"	STEP		-3.56 531.87 .03 H.
5+08.69 N48.00	" .60	-3.72	" .61	7+18.58	BASE		-5.50 529.98
CHECK R.M.		-2.33	512.00	"	WALL		-3.17 532.26
				"	STEP		-3.56 531.87 .03 H.
+5.53	535.49		529.90	7+44.76			-5.42 530.01
		-2.95	532.48	"			-3.17 532.26
				"			-3.58 531.85 .01 H.
				CHECK R.M. = 1.			-6.27 529.16 = 529.16

Dec. 26, 1948.

Jan 4, 1948 LEONARD
WEST
PAYNE

28.

CHECK COPING WALL FORMS - SOUTH SIDE.

R.M. #4	5.41	H.d. 535.17	529.76	
1+15.27 BASE	530.	-5.41	529.96	
" WALL	532.26	-2.90	532.27	
" STEP	531.84	-3.87	531.85	.01 HI
1+41.50 BASE		-5.23	529.94	
" WALL		-2.90	532.27	
" STEP		-3.87	531.85	.01 HI
1+67.75 BASE		-5.19	529.98	
" WALL		-2.91	532.26	
" STEP		-3.82	531.85	.01 HI
2+15.19 BASE		-5.19	529.98	
" WALL		-2.91	532.26	
" STEP		-3.83	531.84	O.K.
2+46.46 BASE		-5.23	529.94	
" WALL		-2.92	532.25	
" STEP		-3.33	531.84	O.K.
2+72.65 BASE		-5.15	530.12	
" WALL		-2.91	532.26	
" STEP		-3.32	531.85	O.K.
CHECK R.M. #5.		-5.35	529.92	= 529.92

CHECK FOOTING FORMS - WEST END

R.M.	+2.69	H.d. 514.69		512.00	OUTLET STR. WEST END
STA 1+15.24	1428.67	GRADE (FORMS) 513.85	-0.75	513.94	.01 LOW
"	1409.89	514.04	-0.66	514.08	.01 LOW
"	510.00	514.14	-0.56	514.18	.01 LOW
"	529.33	514.04	-0.65	514.04	
"	548.67	513.85	-0.74	513.85	
"	568.00	513.85	-0.84	513.85	
"	587.38	513.75	-0.94	513.75	
"	5106.67	ACTUAL GRADE 514.58	-0.15	514.54	.04 LOW CHECK AS COMPLETED
"	1448.06	513.77	-0.93	513.76	.01 LOW "
"	1467.33	513.67	-1.08	513.66	.01 LOW "
CHECK R.M.			-2.69	512.00	
CHECK FOOTINGS AS COMPLETED ALONG SOUTH SIDE:					
STA 1+41.47	5106.67	511.83	-2.88	511.81	.02 LOW
1+67.70		"	-2.86	511.83	
1+93.93		"	-2.87	511.82	.01 LOW
2+20.16		"	-2.86	511.83	
2+46.89		"	-2.86	511.83	
2+72.62		"	-2.86	511.83	

FOOTINGS, S. SIDE, CINTO.

		H.d. 514.69			
Sta 2+98.85	5106.67	GRADE 511.93	-2.87	511.82	.01 LOW
3+75.08	"	"	-2.87	511.82	.01 LOW
3+51.31	"	"	-2.86	511.83	
T.P.	+3.81	H.d. 514.50	-4.00	510.69	ON FOOTING
3+77.54	"	511.83	-2.70	511.80	.03 LOW
4+03.77	"	"	-2.69	511.81	.03 LOW
4+30	"	"	-2.69	511.81	.02 LOW
4+56.23	"	"	-2.69	511.81	.02 LOW
4+82.46	"	"	-2.69	511.81	.02 LOW
5+08.69	"	"	-2.69	511.81	.02 LOW
CHECK FORMS FOR FOOTINGS - S. SIDE					
5+34.92	5106.67	511.91	-2.61	511.89	.02 LOW
5+61.15	"	"	-2.61	511.89	.02 LOW
5+87.38	"	"	-2.62	511.88	.03 LOW
6+13.61	"	"	-2.61	511.89	.02 LOW
6+39.84	"	"	-2.60	511.90	.01 LOW
6+66.07	"	"	-2.61	511.89	.02 LOW
6+92.30	"	"	-2.62	511.88	.03 LOW
7+18.53	"	"	-2.60	511.90	.01 LOW
CHECK R.M. INLET STR.			-4.46	510	.04 = 510.04

JAN. 5, 1949

LEONARD
WEST
PHYNE

29.

CHECK ⁹⁰⁰ GRADE OF FLOOR BEFORE POURING, N. SIDE TO 4+30

	GRADE H.d.	G. ROD	REMARKS
R.M. + 2.23	514.28		512.00 W. OUTLET AT STA 4+30
N 75.0' TOP OF FORMS	510.00	4.23	VARIES .01 TO .08' HIGH NORTH SIDE O.K. TO 4+30
N 74 TO 75' GROUND	509.33	4.90	HIGH ALONG W. END NARROW STRIP 15' LONG
N 72.0' "	509.65	4.58	STA 385 TO 385' .04 HIGH
N 68.33' "	509.62	4.61	O.K. WITHIN OR ALL OVER
N 58.0' "	509.56	4.67	O.K. WITHIN OR
N 48.0' "	509.50	4.73	O.K. WITHIN OR
N 68.08 TOP FORMS	509.96	4.27	VARIES TO .02' ±
N 66.58 " "	509.95	4.28	VARIES TO .02' ±
N 48.75 " "	509.84	4.39	VARIES TO .02' ±
N 48.0' " "	509.83	4.40	FORMS NOT SET YET.
CHECK R.M.		-2.23	512.00
RECHECK BUTTRESS FORMS W. END			JAN 18 '49 LEONARD, WEST, PHYNE.
R.M. MON. # 5	+5.29	534.93	529.64
329.33	532.84	-2.09	532.84
348.67	532.75	-2.18	532.75
368.00	532.65	-2.28	532.65
387.33	532.55	-2.38	532.55
5106.67	532.46	-2.47	532.46
CHECK R.M. # 4		-5.17	529.76 = 529.76

JAN. 5, 1949

LEONARD
WEST
PAYNE

30.

CHECK GIRDER ELEV.

N. SIDE, N 86.66

	H.d.	GRADE		R.M. #3.
R.M. +5.14	534.97		529.83	
Sta 0+89 W.END OUTPRESS.	532.46	-2.50	532.47	
1+15.24 COLUMN	"	-2.50	" .47	
1+46.47 "	"	-2.48	" .49	
1+67.70 "	"	-2.51	" .46	
1+93.93 "	"	-2.50	" .47	
2+20.16 "	"	-2.50	" .47	
2+46.39 "	"	-2.50	" .47	
2+72.62 "	"	-2.51	" .46	
2+98.85 "	"	-2.51	" .46	
3+25.08 "	"	-2.51	" .46	
3+51.31 "	"	-2.50	" .47	
3+77.54 "	"	-2.52	" .45	
4+03.77 "	"	-2.52	" .45	
4+30 "	"	-2.50	" .47	
4+56.23 "	"	-2.50	" .47	
4+82.46 "	"	-2.52	" .45	
5+08.69 "	"	-2.51	" .46	
5+34.92 "	"	-2.50	" .47	

CHECK GIRDER ELEV. - CONT'D.

	H.d.	GRADE		
	534.97			
Sta. 5+61.15	532.46	-2.51	532.46	
5+87.38 COLUMN	"	-2.51	" .46	
6+13.61 "	"	-2.51	" .46	
6+39.84 "	"	-2.50	" .47	
6+66.07 "	"	-2.51	" .46	
6+92.30 "	"	-2.50	" .47	
7+18.53 "	"	-2.52	" .45	
7+44.76 "	"	-2.51	" .46	
7+71 OUTPRESS. E.END	"	-2.48	" .49	.03 HIGH
CHECK R.M. #2.		-5.50	529.47	
CHECK OUTPRES FORMS; WEST END.				
	H.d.			FORM ELEV.
	534.97			
	GRADE			
529.33	532.84	-2.13	532.84	
548.67	532.75	-2.22	532.75	
568.00	532.65	-2.32	532.65	
587.33	532.55	-2.42	532.55	
5106.67	532.46	-2.51	532.46	

JAN 5, 1949

LEONARD
WEST
PINE.

91.

CHECK COPING WALL FORMS: S. SIDE:

B.M. #	+	H.d.	529.97	529.89
STA.		GRADE:	5.00	FORM ELEV.
1+67.70	BASE	530.00	5.00	529.97 .02 LOW
"	WALL	532.26	2.70	532.27
"	STEP	531.84	-3.12	531.85
1+93.93	BASE		5.09	529.88
"	WALL		-2.70	532.27
"	STEP		-3.13	531.84
2+70.16	BASE		-5.00	529.97
"	WALL		-2.70	532.27
"	STEP		-3.12	531.85
3+25.08	BASE		-4.98	529.99
"	WALL		-2.71	532.26
"	STEP		-3.12	531.85
3+51.21	BASE		-4.95	532.04
"	WALL		-2.70	532.27
"	STEP		-3.12	531.85
3+77.54	BASE		-4.98	529.99
"	WALL		-2.71	532.26
"	STEP		-3.12	531.85

H.d.

534.97.

4+30	BASE	-4.98	529.99
"	WALL	-2.71	532.26
"	STEP	-3.12	531.85
4+56.23	BASE	-5.00	529.97
"	WALL	-2.70	532.27
"	STEP	-3.12	531.85
4+82.46	BASE	-4.99	529.98
"	WALL	-2.71	532.26
"	STEP	-3.12	531.85
5+34.92	BASE	-4.97	530.00
"	WALL	-2.70	532.27
"	STEP	-3.11	531.86
5+61.15	BASE	-5.05	529.92
"	WALL	-2.69	532.25
"	STEP	-3.11	531.86
5+87.38	BASE	-5.00	529.97
"	WALL	-2.72	532.25
"	STEP	-3.12	531.85
CHECK B.M. #2.		-5.50	529.47

CHECK CORING WALL FORMS, S. SIDE

B.M. #	Grade	Offset	Form Grade
2+76.67	Base	5.15	529.98
"	Wall	-2.85	532.28
"	Step	-3.27	531.86
2+98.85	Base	-5.28	529.85
"	Wall	-2.87	532.26
"	Step	-3.27	531.86
3+26.08	Base	-5.10	530.08
"	Wall	-2.85	532.28
"	Step	-3.27	531.86
3+77.54	Base	-5.13	530.00
"	Wall	-2.86	532.27
"	Step	-3.27	531.96
4+08.77	Base	5.20	529.93
"	Wall	-2.86	532.27
"	Step	-3.27	531.86
4+30	Base	5.10	530.08
"	Wall	2.86	532.27
"	Step	3.27	531.86
CHECK B.M. #4		-5.87	529.76

CHECK SUR-GRADE & FORMS IN FLOOR, N. SIDE, 4+50 TO 7+40

B.M.	Grade	G. Rod	Remarks
2.47	514.47		512.00 H. OUTLET
N 75.0	510.00	4.47	O.K. WITHIN ±.01
N 74 TO 75	509.88	5.14	O.K. EXCEPT BETWEEN 6+40 TO 6+92. 1' HIGH
N 72	509.65	4.82	O.K. ALL PLACES.
N 67.33	509.62	4.85	" " "
N 58.0	509.56	4.91	" " "
N 48.0	509.50	4.97	" " "
* N 68.08	509.96	4.51	O.K. WITHIN ±.01'
N 66.58	509.95	4.52	" " "
N 48.76	509.84	4.63	" " "
* N 48.00	509.88	4.64	" " "
CHECK B.M.		-2.47	512.00

NOTE: SECTION BETWEEN 5+35 AND 5+61 NOT CHECKED
DUE TO BEING POURED BEFORE SURVEY PARTY
ARRIVED.

JAN. 18, 1949

LEONARD
WEST
ARINE.

55.

CHECK FOOTING FORMS, 387.50

514.47

B.M.	+2.29	514.29		512.00 w. OUTLET	5+61.15	510.50	-3.97	510.60
1+41.97		510.50	-3.78	510. ⁵⁰ 51	5+87.38	"	-3.97	510.50
1+67.70		"	-3.79	510. ⁴⁹ 50	6+15.61	"	-3.97	510.50
1+98.98		"	-3.78	510. ⁵⁰ 51	6+39.84	"	-3.97	510.50
2+20.16		"	-3.78	510. ⁵⁰ 51	6+66.07	"	-3.98	510.49
2+46.39		"	-3.77	510. ⁵¹ 52	6+92.30	"	-3.98	510.49
2+77.67		"	-3.78	510. ⁵⁰ 51	7+18.68	"	-3.98	510.49
2+98.86		"	-3.78	510. ⁵⁰ 51	CHECK B.M. INLET STR		-4.44	510.03 = 510.04
3+25.08		"	-3.77	510. ⁵¹ 52	CHECK B.M. N. OUTLET		-2.47	512.00
3+56.31		"	-3.78	510. ⁵⁰ 51				
3+77.54		"	-3.78	510. ⁵⁰ 51				
4+03.77		"	-3.78	510. ⁵⁰ 51				
4+30.		"	-3.79	510. ⁵¹ 52				
T.P. - B.M. N. OUTLET			-2.30	511.99 = 512.00				
	+2.47	514.47						
4+56.28		510.50	-3.97	510.50				
4+82.46		"	-3.97	510.50				
5+09.69		"	-3.97	510.50				
5+34.97		"	-3.97	510.50				

JAN. 19, 1949

LEONARD
WEST
PAYNE.

94.

CHECK FOOTING		FORMS	S 68.0	
R.M.	+ 2.80	514.80		512.00 W. OUTLET
		GRADE		
STA 1+	41.47	510.60	- 3.70	510.60
	1+67.70	"	- 3.70	510.60
	1+98.99	"	- 3.69	510.61
	2+20.16	"	- 3.69	510.61
	2+46.39	"	- 3.70	510.60
	2+74.67	"	- 3.70	510.60
	2+99.85	"	- 3.70	510.60
	3+25.05	"	- 3.69	510.61
	3+51.21	"	- 3.69	510.61
	3+77.54	"	- 3.70	510.60
	4+08.77	"	- 3.70	510.60
	4+30	"	- 3.69	510.61
T.P.			- 4.74	509.56
	+ 4.86	H.d. 514.42		4+30 POLT HEAD
	4+56.29	510.60	- 3.81	610.61
	4+82.46	"	- 3.83	510.59
	5+08.69	"	- 3.82	510.60
	5+37.92	"	- 3.82	510.60

		514.42		
	5+61.15		- 3.82	510.60
	5+87.38		- 3.82	510.60
	6+13.61		- 3.82	510.60
	6+39.84		- 3.82	510.60
	6+66.07		- 3.82	510.60
	6+92.30		- 3.83	510.59
	7+18.58		- 3.82	510.60
	CHECK R.M.		- 2.42	512.00 N. OUTLET
	" "		- 4.985	510.035 = 510.04 INLET STR.
				JAN 25 '49 LEONARD WEST.
				CHECK FLOOR FORMS S 87.83 TO S 105.00
	R.M.	+ 4.49	514.47	510.04 SILL OF INLET
			GRADE	NO LOW SPOTS.
	S 105.		510.00	- 4.47
				O.K. WITHIN +.01'
	S 87.33		509.91	- 4.56
			H.d.	NO LOW SPOTS.
	T.P.	+ 2.17	514.17	- 2.47
				512.00 N. OUTLET
	6105			- 4.17
				NO LOW SPOTS 1 SPOT.
	397.39			- 4.26
				O.K. EXCEPT .03 IN CORNER
				NO LOW SPOTS.
	CHECK R.M.		- 2.17	512.00 W. OUTLET

JAN 25, 1949

LEONARD
WEST
PAYNE

FEB 11, 1949

LEONARD
WEST
PAYNE 35.

CHECK COPING WALL

FORMS, S. SIDE,

R.M. #1.		H.d. 504.92		529.16	
5+87.28	BASE	GRADE 530.00	-4.90	530.02	.02 H.
"	WALL	532.26	-2.66	532.26	O.K.
"	STEP	531.84	-3.07	531.95	.01 H.
6+18.61	BASE		-4.91	530.01	.01 H.
"	WALL		-2.65	532.27	.01 H.
"	STEP		-3.06	531.86	.02 H.
6+22.84	BASE		-4.88	530.04	.04 H.
"	WALL		-2.66	532.26	O.K.
"	STEP		-3.06	531.86	.02 H.
6+26.00	BASE		-4.96	532.96	.04 LOW
"	WALL		-2.65	532.27	.01 H.
"	STEP		-3.06	531.86	.02 H.
7+18.63	BASE		-4.97	532.95	.05 LOW
"	WALL		-2.66	532.26	O.K.
"	STEP		-3.06	531.86	.02 H.
7+44.76	BASE		-4.91	530.01	.01 H.
"	WALL		-2.66	532.26	O.K.
"	STEP		-3.06	531.86	.02 H.
CHECK R.M. # 9			-5.02	529.90.	

CHECK INVERT ELEV. OF GUTTERS:

R.M. + R.38	H.d. 514.38		512.00	H. OUTLET.
N 32.25 STA: 5+05	GRADE: 507.81		-6.58	507.80
" 4+85	507.92		-6.47	507.91
" 4+69	507.99		-6.41	507.97
" 4+55	508.06		-6.34	508.04
" 4+40	508.12		-6.27	508.11
" 4+30	508.18		-6.20	508.19
" 4+00	508.31		-6.06	508.32
" 3+78	508.42		-5.94	508.44
" 3+63	508.50		-5.96	508.52
" 3+51	508.56		-5.81	508.57
" 3+38	508.62		-5.75	508.63
" 3+25	508.69		-5.69	508.69
" 3+00	508.84		-5.54	508.84
" 2+73	508.97		-5.41	508.97
" 2+59	509.04		-5.35	509.03
" 2+46	509.11		-5.26	509.12
" 2+33	509.17		-5.22	509.16
" 2+20	509.24		-5.15	509.23

CHECK GUTTER - CONT'D.

H.S.	514.38			
N 32.25.	GRADE			
7+00	509.39	-5.06	509.32	.02 LOW
1+68	509.50	-4.97	509.41	.09 LOW
CHECK B.M.		-2.38	512.00	
+2.30	H.S.			
	514.30			
	GRADE			
5+14	509.26	-5.09	509.21	.05 LOW
5+21	509.47	-4.20	509.40	.07 LOW
5+30	508.69	-5.62	508.68	.01 LOW
5+35	508.71	-5.61	508.69	.02 LOW
5+49	508.79	-5.55	508.75	.04 LOW
5+61	508.85	-5.47	508.83	.02 LOW
5+75	508.91	-5.41	508.89	.02 LOW
5+87.4	508.98	-5.32	508.98	
6+00	509.04	-5.25	509.05	.01 HI
6+40	509.24	-5.09	509.21	.02 LOW
6+58	509.33	-5.04	509.26	.07 LOW
6+66	509.37	-4.94	509.26	.01 LOW
6+80	509.44	-4.88	509.42	.02 LOW
6+92	509.50	-4.80	509.50	
CHECK B.M.		-2.30	512.00	

CHECK ELEV. ON FOOTINGS AT 548.67

B.M.	+2.36	514.36		512.00 W. OUTLET
		GRADE		
STA: 1+41.47		510.70	-3.66	510.70
1+67.70		"	-3.66	" .70
			-3.66	" .70
1+95.93		"	-3.64	" .72
2+20.16		"	-3.66	" .70
2+46.39		"	-3.66	" .70
2+72.67		"	-3.65	" .71
2+98.85		"	-3.66	" .70
3+25.08		"	-3.65	" .71
3+51.30		"	-3.66	" .70
3+77.54		"	-3.65	" .71
4+03.77		"	-3.66	" .70
4+30		"	-3.66	" .70
T.P.			-4.63	509.73 Bolt Head
	+4.69	514.42		
		GRADE		
4+56.23		510.70	-3.72	510.70
4+82.46		"	-3.71	" .71
5+08.69		"	-3.72	" .70
5+34.92		"	-3.72	" .70

MARCH 8, 1949

LEONARD.
PAYNE.

97.

CHECK FOOTINGS: 548.67 - CONT'D

H.S.	514.4R		
STA: 5+61.15	GRADE 510.70	-3.72	510.70
5+87.38	"	-3.72	" .70
6+13.61	"	-3.72	" .70
6+39.84	"	-3.72	" .70
6+66.07	"	-3.72	" .69
6+92.30	"	-3.72	" .70
7+18.53	"	-3.72	" .70
CHECK R.17.		-4.38	510.04 = 510.04

CHECK SUB-GRADE UNDER FLOOR, AND FLOOR FORMS:

R.17. + R.32	514.32	512.00	W. OUTLET.
LOCATION	G. ROD	ELEV.	REMARKS
N 09.38 TOP OF FORMS, STA 1+41.5 TO 1+57.7	-4.47	509.85	O.K. WITHIN ± .02'
" WEST END	-4.32	510.00	Hump .04 Ht.
SUB. GRADE N 09.4	-4.80	509.52	O.K. ± .04'
" " N 28.6	-4.89	509.43	O.K. ± .04'
CHECK R.17.	-2.82	512.00	

MARCH 4, '49 LEONARD
PAYNE

FEB 15, 1949,

LEONARD
WEST
PAYNE:

38.

ELEV. ON ROOF AFTER REMOVING FORMS N96.33

ELEV. ON ROOF SLAB BEFORE REMOVING FORMS: N96.33.

B.M. + 5.660 535.490 529.85 ON LEAD PLUG Mon. #6.

B.M. + 5.425 535.255 529.83 ON LEAD PLUG Mon. #6.

STA 1+41.5	-2.768	537.727
1+54.6	-2.776	" .714
1+67.7	-2.772	" .718
1+80.8	-2.761	" .729
1+93.9	-2.750	" .740
2+07.	-2.756	" .754
2+20.2	-2.757	" .753
2+33.3	-2.750	" .740
2+46.4	-2.769	" .721
2+59.5	-2.758	" .732
2+72.6	-2.760	" .730
2+85.7	-2.755	" .737
2+98.8	-2.764	" .726
3+11.9	-2.775	" .717
3+25.1	-2.778	" .712
3+38.2	-2.768	" .722
3+51.3	-2.757	" .733
3+64.4	-2.741	" .749

STA: 1+41.5	-2.502	532.759
1+54.6	-2.513	532.742
1+67.7	-2.513	532.742
1+80.8	-2.500	532.755
1+93.9	-2.488	532.767
2+07	-2.482	532.773
2+20.2	-2.480	532.776
2+33.3	-2.494	532.761
2+46.4	-2.513	532.742
2+59.5	-2.505	532.750
2+72.6	-2.509	532.746
2+85.7	-2.506	532.749
2+98.8	-2.507	532.748
3+11.9	-2.515	532.740
3+25.1	-2.523	532.732
3+38.2	-2.515	532.740
3+51.3	-2.505	532.747
3+64.4	-2.498	532.757

ELEV. ON ROOF AFTER REMOVING FORMS, CONT'D.

H.d.	535.490		
STA. 3+77.5		-2.772	532.718
3+90.6		-2.760	" .750
4+05.8		-2.760	" .750
4+16.9		-2.759	" .781
4+30		-2.754	" .796
B.M. #7 ON LEAD PILE		-5.572	529.918
+5.508	535.426		
4+43.1		-2.697	532.729
4+56.2		-2.697	" .729
4+69.3		-2.707	" .719
4+82.4		-2.707	" .719
4+95.6		-2.712	" .714
5+08.7		-2.694	" .732
5+21.8		-2.708	" .718
5+34.9		-2.707	" .719
5+48		-2.708	" .718
5+61.2		-2.706	" .720
5+74.3		-2.696	" .730

ELEV. ON ROOF SLABS BEFORE REMOVING FORMS - CONT'D.

H.d.	535.255		
STA. 3+77.5		-2.525	532.730
3+90.6		-2.508	" .747
4+05.8		-2.508	" .747
4+16.9		-2.510	" .745
4+30		-2.505	" .747
T.P. B.M. #7 ON LEAD PILE		-5.340	529.915 ON PILE.
H.d. +5.332	535.247		
4+43.1		-2.498	532.757
4+56.2		-2.498	" .757
4+69.3		-2.515	" .740
4+82.4		-2.521	" .726
4+95.6		-2.521	" .726
5+08.7		-2.496	" .751
5+21.8		-2.509	" .738
5+34.9		-2.511	" .736
5+48		-2.513	" .734
5+61.2		-2.513	" .734
5+74.3		-2.505	" .742

F ELEV. ON ROOF AFTER REMOVING FORMS, CONT'D.

H.d.	535.426		
STA. 5+87.4	-2.696	532.730	
6+00.5	-2.682	" .744	
6+15.6	-2.709	" .717	
6+26.7	-2.692	" .734	
6+39.8	-2.696	" .730	
6+52.9	-2.656	" .740	
6+66.1	-2.681	" .745	
B.M. NAIL IN MON #8.	-5.492	529.934	
B.M. #7.	-5.508	529.918	

ELEV. ON ROOF SLABS BEFORE REMOVING FORMS CONT'D.

H.d.	535.247		
STA. 5+87.4	-2.504	532.743	
6+00.5	-2.494	" .753	
6+15.6	-2.510	" .737	
6+26.7	-2.494	" .753	
6+39.8	-2.494	" .750	
6+52.9	-2.487	" .760	
6+66.1	-2.488	" .759	
B.M. #8 NAIL IN MON.	-5.324	529.904 529.928 =	
RECHECK ELEV. ON B.M.'S	FEB 16, '49	LEONARD, WEST.	
B.M. IN DAM +2.850		536.89	
B.M. #8 NAIL IN MON.	-9.316	529.924	
B.M. #1 NAIL IN MON.	-10.082	529.158	
B.M. #2 NAIL IN MON.	-9.776	529.464	
CHECK B.M. IN DAM.	-2.850	536.39	

FEB. 16, 1949

LEONARD
WEST.
PAYNE

41.

ELEV. ON ROOF OVER GIRDERS, BEFORE REMOVING FORMS:

R.M. + 5399	535.223	529.85	ON LEAD P.V. MON #6
STA 1+54.6 AT N 86.7		-2.419	532.804
" 1+80.8		-2.420	532.803
" 2+07		-2.428	532.800
" 2+33.3		-2.418	532.805
" 2+59.5		-2.419	532.814
" 2+85.7		-2.418	532.805
" 3+11.9		-2.416	532.807
" 3+38.2		-2.417	532.806
" 3+64.4		-2.423	532.800
" 3+90.6		-2.425	532.798
" 4+16.9		-2.426	532.797
T.P. Mon. #7 ON LEAD.		-5.308	529.915
+ 5.353	535.268		
STA 4+43.1		-2.464	532.804
" 4+69.3		-2.479	532.789
" 4+95.6		-2.490	532.778
" 5+21.8		-2.480	532.788
" 5+48		-2.474	532.794

H.d.	535.268	
STA. 5+74.3	-2.482	532.786
6+00.5	-2.471	532.797
6+26.7	-2.463	532.805
6+52.9	-2.461	532.807
CHECK R.M. MON #8 ON NAUL.	-5.350	529.918
CHECK R.M. MON #7 ON LEAD.	-5.354	529.914
	0.004	DIFF.
PEG LEVEL; MON #7.	5.306	
SET ROD ON:	5.310	

FEB. 17, '49.

RECHECK ELEV'S, 1ST SECTION, AFTER FORMS REMOVED.			
R.M. #6 +5.398	535.228	529.83	
N 96.3 Sta 1+46.5	-2.498	532.730	-0.23
" 1+54.6	-2.498	532.725	-0.17
" 1+67.7	-2.489	532.734	-0.08
N 86.7 1+54.6	-2.417	532.806	+0.02
CHECK R.M.	-5.394		

FEB. 23 '49.

LEONARD
WEST 48.
PRYNE

CHECK LEVELS UNDER-SIDE OF ROOF SLAB, N 96.30

B.M.	+18.31	525.81		512.00	W. OUTLET
STA.				Bottom.	Top.
	1+41.5		+7.25	532.66	.753
	1+54.6		+7.18	" .49	.742
	1+67.7		+7.18	" .49	.742
	1+80.8		+7.14	" .48	.735
	1+93.9		+7.22	" .53	.767
	2+07.		+7.15	" .49	.778
	2+20.2		+7.17	" .48	.785
	2+33.3		+7.16	" .47	.761
	2+46.4		+7.22	" .53	.742
	2+59.5		+7.20	" .51	.750
	2+72.6		+7.20	" .51	.746
	2+85.7		+7.20	" .51	.749
CHECK	B.M.		-18.31		

MARCH 2, 49. LEONARD
PAYNE. 44.

CHECK FOOTING FORMS :

N 09.3V

				R.M. + 2.86	514.36	512.00 W. OUTLET
					GRADE	
				STA 1+47.47	510.79	-3.57 510.79
				1+67.70	"	-3.57 .79
				1+98.98	"	-3.57 .79
				2+20.16	"	-3.58 .78
				2+46.59	"	-3.56 .80
				2+72.62	"	-3.56 .80
				2+98.85	"	-3.56 .80
				3+26.08	"	-3.56 .80
				3+51.31	"	-3.56 .80
				3+77.54	"	-3.57 .79
				4+03.77	"	-3.57 .79
				4+30.00	"	-3.57 .79
				T.B.M. + 2.25	514.28	-2.86 512.00 N. OUTLET
				H.d.	514.28	
				5+87.38	GRADE = 510.79	-3.50 510.78
				6+13.61	"	-3.50 .78
				6+39.84	"	-3.51 .77
				CHECK R.M.	INLET STR. SILL	-4.26 510.02 =
						510.04 Re.

← CONT'D

MAY 9, 1949 PAYNE
CARYER

MARCH 7, 1949

LEONARD
PAYNE

45.

N77.00

ELEV. ON ROOF AFTER REMOVING FORMS

CHECK ELEVATIONS ON ROOF BEFORE REMOVING FORMS: N77.00

BM + 5156	534.986	529.83	R.M. + 5.465	535.285	529.85
STA. 0+89		-2.136 532.850	STA. 0+89		-2.450 532.835
1+02.1		-2.193 ".793	" 1+02.1		-2.429 ".856
1+15.2		-2.172 ".814	" 1+15.2		-2.429 ".856
1+28.3		-2.199 ".787	" 1+28.3		-2.426 ".849
1+41.5		-2.212 ".774	" 1+41.5		-2.451 ".834
1+54.6		-2.208 ".778	" 1+54.6		-2.448 ".837
1+67.7		-2.208 ".778	" 1+67.7		-2.464 ".821
1+80.8		-2.208 532.778	" 1+80.8		-2.450 ".835
1+93.9		-2.179 ".807	" 1+93.9		-2.491 ".854
2+07		-2.179 ".807	" 2+07		-2.480 ".855
2+20.2		-2.169 ".817	" 2+20.2		-2.424 ".861
2+33.3		-2.176 ".810	" 2+33.3		-2.494 ".851
2+46.4		-2.215 ".771	" 2+46.4		-2.469 ".816
+59.5		-2.188 ".798	" 2+59.5		-2.448 ".842
+72.6		-2.201 ".785	" 2+72.6		-2.466 ".819
+85.7		-2.193 ".793	" 2+85.7		-2.451 ".834
+98.8		-2.196 ".790	" 2+98.8		-2.450 ".835
CHECK B.M.#7		-5.067 529.919	CHECK R.M.		-5.465 529.85

MARCH 15, 1949 LEONARD
PAYNE - 46.
CARYER

ELEV. ON ROOF AFTER REMOVING FORMS CONT'D

ELEVATIONS ON ROOF BEFORE REMOVING FORMS; N770'

H.I.	534.986			B.M. MON #7	535.414 +5.494	539.92 ON LEAD,
STA. 3+11.9		-2.164	532.822	3+11.9	-2.548	532.866
3+25.1		-2.176	532.810	3+25.1	-2.562	" .852
3+38.2		-2.189	532.797	3+38.2	-2.572	" .847
3+51.3		-2.179	532.807	3+51.3	-2.559	" .855
3+64.4		-2.179	532.807	3+64.4	-2.562	" .852
3+77.5		-2.186	532.800	3+77.5	-2.572	" .847
3+90.6		-2.178	" .808	3+90.6	-2.571	" .843
4+03.8		-2.184	" .802	4+03.8	-2.569	" .845
4+16.9		-2.184	" .802	4+16.9	-2.565	" .849
4+30		-2.190	" .796	4+30	-2.573	" .841
4+43.1		-2.178	" .808	4+43.1	-2.563	" .851
4+56.2		-2.199	" .787	4+56.2	-2.583	" .831
4+69.3		-2.184	" .802	4+69.3	-2.566	" .848
4+82.4		-2.174	" .812	4+82.4	-2.567	" .847
4+95.6		-2.190	" .796	4+95.6	-2.570	" .844
5+08.7		-2.174	" .812	5+08.7	-2.560	" .854
5+21.8		-2.174	" .812	5+21.8	-2.558	" .856
5+34.9		-2.169	532.817	5+34.9	-2.559	" .855
CHECK B.M. #6		-5.156	529.83			

MARCH 15, 1949

LEONARD
PAYNE
CARVER

47.

ELEV. ON ROOF AFTER REMOVING FORMS. CONT'D

ELEVATIONS ON ROOF BEFORE REMOVING FORMS. N 77.0

BM # 7 + 5.485	535.405		529.92	H.d.	535.414		
5+48		-2.604	532.801	5+48		-2.572	532.842
5+61.2		-2.608	" 897	5+61.2		-2.564	" .850
5+74.3		-2.604	" .801	5+74.3		-2.560	" .854
5+87.4		-2.604	" .801	5+87.4		-2.564	" .850
6+00.5		-2.600	" 805	6+00.5		-2.559	" .855
6+13.6		-2.616	532.789	6+13.6		-2.574	" .840
CHECK B.M. # 6		-5.586	529.818	CHECK B.M. # 7		-5.495	529.921

MARCH 8, 1949 LEONARD 48.
PAYNE.

CHECK FOOTINGS.	5 29.33	GRADE = 510.79 ON TOP OF FORM.
R.M. + 2.88	514.88	512.00 W. OUTLET.
STA. 1+46.47		-4.07 510.81
1+67.70		-4.08 510.80
1+98.93		-4.08 510.80
2+20.16		-4.08 510.80
2+46.39		-4.08 510.80
2+72.62		-4.09 510.79
2+98.85		-4.09 510.79
3+25.08		-4.09 510.79
3+51.31		-4.09 510.79
3+77.54		-4.09 510.79
4+03.77		-4.08 510.80
4+30.		-4.08 510.80
4+56.28		-4.08 510.80
4+82.46		-4.09 510.79
5+08.69		-4.09 510.79
5+34.92		-4.09 510.79
5+61.15		-4.09 510.79
5+87.38		-4.09 510.79

MARCH 10, 1999 LEONARD
 RAYNE 49.
 CARVER

CHECK FOOTINGS	529.88		
H. I.	514.88		
Sta. 6+13.61		-4.09	510.79
6+39.84		-4.09	510.79
6+66.07		-4.09	510.79
6+92.30		-4.09	510.79
7+18.53		-4.09	510.79
CHECK R.M.	4.84	510.04	X IN GILL. INLET STR.

CHECK OUTPASS Blocks 4 TOP OF COPING WALL - E. END			
R.M. on DAM +4.72	541.11		536.39
OUTPASS 5106.67	532.46	-8.65	532.46
" 587.33	532.55	-8.54	532.57
" 368.00	532.65	-8.44	532.67
" 548.67	532.25	-8.34	532.77
" 529.33	532.84	-8.25	532.86
CHECK R.M.		-4.72	536.39 ON DAM.

MARCH 11, 1949 LEONARD.
PAYNE. 50.
CARVER.

CHECK ELEVATIONS ON CIRCULAR COPING WALL, S.E. COR.

P.M.	P. 51	539.90		536.39 ON DAM.
STA 751.67		GRADE		
5126.42	R.C.	532.26	-7.62	532.28
"	STEP	531.84		
2.6'	WALL	532.27	-7.62	532.28
"	STEP	531.85		
5.2'	WALL	532.28	-7.62	532.29
"	STEP	531.86		
7.8'	WALL	532.29	-7.61	532.29
"	STEP	531.87		
10.4'	WALL	532.30	-7.60	532.30
"	STEP	531.88		
13.0'	WALL	532.31	-7.59	532.31
"	STEP	531.89		
15.6'	WALL	532.32	-7.58	532.32
"	STEP	531.90		
18.2'	WALL	532.33	-7.57	532.33
"	STEP	531.91		
20.8'	WALL	532.34	-7.56	532.34
"	STEP	531.92		

CHECK ELEV'S. ON CIRCULAR COPING WALL, S.E. COR.

H.d.		532.90		
		GRADE:		
23.4'	WALL	532.35	-7.56	532.34
	STEP	531.95		
26.0'	WALL	532.36	-7.55	532.35
"	STEP	531.94		
STA. 7+71.42	WALL,			
5107.67	E.C.	532.37	-7.53	532.37
"	STEP	531.95		

1ST. SECTION OF COPING WALL - S.E. END. STA 7+71.42

5105.67	WALL	532.38	-7.55	532.35
"	STEP	531.96		
588.33	WALL	532.45	-7.45	532.47
"	STEP	532.03		

APRIL 1, 1949. LEONARD
PAYNE
CARVER,

51.

LEVELS ON ROOF DURING POURING OPERATIONS

LOAD CONSISTED OF BARRON FULL OF CONCRETE AND
MAN PUSHING SAME.

POSITION #1	FIRST ROW.	RD:
BEFORE:		2.456
DURING LOAD		2.458
AFTER.		2.457

POSITION #2	SECOND ROW.	
BEFORE:		2.341
DURING LOAD		2.341
AFTER		2.340

POSITION #3	THIRD ROW.	
BEFORE:		2.252
DURING LOAD		2.254
AFTER		2.251

SEE NEXT PAGE FOR #4.

APRIL 26, 1949. LEONARD
PAYNE
CARVER

52.

CHECK SUB GRADE UNDER DIVISION WALL.

POSITION #4	THIRD ROW.	ROD:	B.M. + 2.55	514.55		512.00 N. OUTLET
BEFORE		-R. 235				
DURING LOAD		R. 235				
AFTER.		R. 235				

SUB GRADE:	GRADE ROD	
S 10	509.58	4.97 SOME HIGH SPOTS.
S 20	509.50	5.05 O.K. TO LOW 1'
S 29.93	509.58	4.97 SOME HIGH SPOTS.
KEY UNDER WALL	509.87*	4.68 O.K. .00 TO -.02'
UNDER WALL, 1/2" HIGH.	SET FOR	
SUB GRADE MARKS	509.63	4.92 O.K. TO -.02'

AUG. 4, 1949. LEONARD, BAKER
PAYNE, CARVER.

CHECK LEVELS ON B.M.'S.

B.M. + .25	536.64		536.39 ON DAM.
CHECK B.M. #8		-6.70	529.94 = 529.90 REC.
+5.40	535.84		
CHECK B.M. #7.		-5.42	529.92 = 529.92 REC.
+5.47	535.89		
CHECK B.M. #6.		-5.55	529.84 = 529.83 REC.

CHECK B.M. - R. 55 512.00

* CONTRACTOR USED 1/2" MATERIAL FOR KEY FORMS.

APRIL 29, 1949

LEONARD
PAYNE
CARVER,

53.

ELEV. ON ROOF BEFORE REMOVING FORMS. N 19.00

R.M. 5204	535.124		529.92 ^{MON. #7.}
N19	326.1	-2.009	533.115
"	338.2	-2.008	.116
	351.3	-1.985	.139
	364.4	-1.989	.135
	377.5	-1.992	.132
	390.7	-1.990	.134
	403.8	-1.978	.146
	416.9	-1.985	.139
	430.0	-1.988	.136
	443.1	-1.986	.138
	456.2	-1.973	.151
	469.3	-1.985	.139
	482.4	-1.995	.129
	495.5	-1.988	.136
	508.6	-1.965	.159
CHECK R.M.		-5.204	529.92

APRIL 29, 1949 LEONARD.
PAINE.
CARVER. 54.

ELEV. ON ROOF	BEFORE	REMOVING FORMS:	
B.M. + 553.5	535.455	529.92	MON 57
N 38.33			
5108.7		-2.403	533.052
521.8		-2.417	.038
534.9		-2.405	.050
548.0		-2.421	.034
561.1		-2.394	.061
574.3		-2.413	.042
587.4		-2.409	.046
600.5		-2.404	.051
613.6		-2.408	.047
626.7		-2.421	.034
639.8		-2.420	.035
652.9		-2.425	.030
666.0		-2.403	.052
CHECK B.M.		-5.535	529.92

July 15, 1949

LEONARD
BAKER
PAINE
CARVER

55.

REGULATING RESERVOIR.
PROFILE FOR 12" DRAIN TILE FROM ROADWAY:

	B.M. + 5.28	535.11	529.83	MON. #6.
AT WEST END 0+00 = STA 0+72, 18.61 N.	0+00 WEST END.		-5.0	530.1
LINE RUNS PARALLEL TO DELAWARE ST., 10' SOUTH OF CITY PROP. LINE ON N. SIDE OF DELAWARE.	0+11 TOP OF BANK		-6.6	529.5
	0+16		-9.1	526.0
	0+21		-13.0	522.1
SEE PAGE 69 FOR ALTERNATE LOCATION.	T.P. PROP. COR. ON HUB.		-12.29	522.82
	+2.67	525.49		
	0+26 TOE OF SLOPE.		-6.3	519.2
	0+28 PROPOSED STILLING CHAMBER.		-6.5	519.0
	^{SET} T.B.M. N.E. COR. 9'x9' BOX.		-9.05	516.44
	+12.67	529.11		
	T.P. ROCK		-1.75	527.36
	+7.53	534.89		
	CHECK B.M.		-5.08	529.81 = 529.83

AT EAST END 0+00 = STA. 7+87, 86.66 N.

LINE BEARS 7° LEFT OF RESERVOIR AXIS.

	B.M.	+1.94	534.41	COR. OF 532.47 CURBRESS
	0+00 EAST END.		-4.4	530.0
	0+21		-4.6	529.8
	0+43 IN EXIST. CUT		-6.8	527.6

PLOTTED 7-18-49-ACK

July 21st, 49LEONARD
BAKER T & NOTES
PAYNE INC
CARVER, R.C.

56.

X-SECTION OF AREA EAST OF RESERVOIR
USING EAST WEST AXIS OF RESERVOIR
AS A BASE LINE STARTING AT N-0/47780

B.M. ON DAM	+1.53	H.I. 537.92	536.39
		R.O.D.	ELEV.
7780	N-0	-7.8	530.1 ✓
	N-10	-8.0	529.9 ✓
	N-20	-7.9	530.0 ✓
	N-30	-7.7	530.2 ✓
	N-40	-7.7	530.2 ✓
	N-50	-7.8	530.1 ✓
	N-60	-7.7	530.2 ✓
	N-70	-7.8	530.1 ✓
	S-10	-7.7	530.2 ✓
	S-20	-7.7	530.2 ✓
	S-30	-7.7	530.2 ✓
	S-40	-7.9	530.0 ✓
	S-50	-7.7	530.2 ✓
	S-60	-8.2	529.7 ✓
	S-70	-8.2	529.7 ✓
	S-80	-8.2	529.7 ✓

H.I.
537.92

	ROD	ELEV.
7480 S-90	-8.0	529.9 [✓]
S100	-7.9	530.0 [✓]
7490 N-0	-8.1	529.8 [✓]
N10	-8.2	529.7 [✓]
N20	-8.2	529.7 [✓]
N30	-8.1	529.8 [✓]
N40	-8.2	529.7 [✓]
N50	-8.2	529.7 [✓]
N60	-8.3	529.6 [✓]
N70	-8.3	529.6 [✓]
S10	-8.0	529.9 [✓]
S20	-8.0	529.9 [✓]
S30	-8.1	529.8 [✓]
S40	-8.0	529.9 [✓]
S50	-8.0	529.9 [✓]
S60	-7.9	530.0 [✓]
S70	-7.4	530.5 [✓]
S80	-7.5	530.4 [✓]

H.I.
537.92

	ROD	ELEV.
7490 S-90	-7.5	530.4 [✓]
S-100	-7.5	530.4 [✓]
8100 N-0	-5.0	532.9 [✓]
N-02	-4.5	533.4 [✓]
N10	-6.4	531.5 [✓]
N15	-7.5	530.4 [✓]
N20	-8.0	529.9 [✓]
N30	-8.4	529.5 [✓]
N40	-8.6	529.3 [✓]
N50	-8.6	529.3 [✓]
N60	-8.6	529.3 [✓]
N70	-8.5	529.4 [✓]
S.10.	-4.5	533.4 [✓]
S20	-4.4	533.5 [✓]
S30	-4.6	533.3 [✓]
S40	-5.1	532.8 [✓]
S50	-7.3	530.6 [✓]
S60	-7.6	530.3 [✓]
S70	-6.6	531.3 [✓]
S80	-5.8	532.1 [✓]

	H.E.	ROD	ELEV.		H.E.	ROD	ELEV.
8100 S 90	537.92	-5.1	532.8 ^v	8710 S 100	537.92	-3.6	534.3 ^v
" S 100		-4.5	533.4 ^v	8710 N-0		-4.1	533.8 ^v
8710 N-0		-4.1	533.8 ^v	N 10		-4.2	533.7 ^v
N 10		-4.3	533.6 ^v	N 20		-7.2	530.7 ^v
N 20		-7.4	530.5 ^v	N 30		-8.9	529.0 ^v
N 30		-8.9	529.0 ^v	N 40		-9.0	528.9 ^v
N 40		-8.9	529.0 ^v	N 50		-9.0	528.9 ^v
N 50		-8.9	529.0 ^v	N 60		-9.1	528.8 ^v
N 60		-8.9	529.0 ^v	N 70		-9.0	528.9 ^v
N 70		-8.6	529.3 ^v	S 04		-3.7	534.2 ^v
S 04		-3.3	534.6 ^v	S 10		-1.8	536.1 ^v
S 10		-1.7	536.2 ^v	S 20		-1.8	536.1 ^v
S 20		-1.7	536.2 ^v	S 30		-1.8	536.1 ^v
S 30		-1.7	536.2 ^v	S 40		-4.5	533.4 ^v
S 40		-4.0	533.9 ^v	S 50		-4.7	533.2 ^v
S 50		-4.9	533.0 ^v	S 60		-5.0	532.9 ^v
S 60		-6.0	531.9 ^v	S 70		-5.1	532.8 ^v
S 70		-6.1	531.8 ^v	S 80		-4.7	533.2 ^v
S 80		-5.3	532.6 ^v	S 90		-4.1	533.8 ^v
S 90		-4.4	533.5 ^v				

		H.I. 537.92	
		ROD	ELEV.
8+30	S100	-3.0	534.9 ^v
8+30	N-0	-4.4	533.5 ^v
	N 10	-4.6	533.3 ^v
	N 20	-7.9	530.0 ^v
	N 30	-8.9	529.0 ^v
	N 40	-9.1	528.8 ^v
	N 50	-9.3	528.6 ^v
	N 60	-9.1	528.8 ^v
	N 70	-9.1	528.8 ^v
	S 03	-4.3	533.6 ^v
	S 10	-1.9	536.0 ^v
	S 20	-1.9	536.0 ^v
	S 30	-1.9	536.0 ^v
	S 40	-3.9	534.0 ^v
	S 50	-4.3	533.6 ^v
	S 60	-4.3	533.6 ^v
	S 70	-4.2	533.7 ^v
	S 80	-3.7	534.2 ^v
	S 90	-3.1	534.8 ^v

		H.I. 537.92	
		ROD	ELEV.
8+30	S100	-2.6	535.3 ^v
8+40	N 0	-4.4	533.5 ^v
	N 03	-4.3	533.6 ^v
	N 10	-5.3	532.6 ^v
	N 14	-5.2	532.7 ^v
	N 20	-6.9	531.0 ^v
	N 30	-9.1	528.8 ^v
	N 40	-9.1	528.8 ^v
	N 50	-9.2	528.7 ^v
	N 60	-9.0	528.9 ^v
	N 70	-9.8	528.1 ^v
	S 08	-4.9	533.0 ^v
	S 10	-5.1	532.8 ^v
	S 21	4.6	533.3 ^v
	S 30	-4.6	533.3 ^v
	S 40	-4.3	533.6 ^v
	S 50	-4.0	533.9 ^v
	S 60	-3.7	534.2 ^v
	S 70	3.8	534.1 ^v
	S 80	-3.1	534.8 ^v
	S 90	-2.6	535.3 ^v

537.92		ROD	ELEV.	537.92		ROD	ELEV.
8 8140	S 100	-2.1	535.8	8150		-2.0	535.9 ^v
8 8150	N 0	-4.9	533.0 ^v	8160	N 0	-3.8	534.1 ^v
	N 10	-5.2	532.7 ^v		N 10	-4.2	533.7 ^v
	N 20	-6.4	531.5 ^v		N 20	-4.8	533.1 ^v
	N 30	-7.7	530.2 ^v		N 30	-5.6	532.3 ^v
	40	-8.2	529.7 ^v		N 40	-6.4	531.5 ^v
	50	-8.6	529.3 ^v		N 50	-6.6	531.3 ^v
	60	-8.8	529.1 ^v		N 60	-7.1	530.8 ^v
	70	-9.4	528.5 ^v		N 70	-7.6	530.3 ^v
	S 10	-4.6	533.3 ^v		S 10	-3.6	534.3 ^v
	S 20	-4.5	533.4 ^v		S 20	-3.8	534.1 ^v
	S 30	-4.3	533.6 ^v		S 30	-3.8	534.1 ^v
	S 40	-4.0	533.9 ^v		S 40	-3.7	534.2 ^v
	S 50	-3.6	534.3 ^v		S 50	-3.5	534.4 ^v
	S 60	-3.4	534.5 ^v		S 60	-3.3	534.6 ^v
	S 70	-3.3	534.6 ^v		S 70	-3.0	534.9 ^v
	S 80	-3.0	534.9 ^v		S 80	-2.7	535.2 ^v
	S 90	2.3	535.6 ^v		S 90	-2.3	535.6 ^v

H.I.
537.92

H.I.
537.92

	ROD	ELEV.
8+60 S100	-2.0	535.9 ✓
8+70 N0	-1.8	536.1 ✓
10	-1.7	536.2 ✓
20	-1.9	536.0 ✓
30	-2.5	535.4 ✓
40	-3.4	534.5 ✓
50	-4.5	533.4 ✓
60	-5.1	532.8 ✓
70	-5.7	532.2 ✓
S 10	-2.6	535.3 ✓
20	-2.7	535.2 ✓
30	-3.0	534.9 ✓
40	-3.0	534.9 ✓
50	-3.0	534.9 ✓
60	-2.9	535.0 ✓
70	-2.8	535.1 ✓
80	-0.90	537.02 ✓
90	-2.2	535.7 ✓

	ROD	ELEV.
8+70 S100	-1.9	536.0 ✓
CHECK B.M. ON DAM.	-1.53	536.39 = 536.39
B.M. ON DAM + 1.45	H.I. 537.84	536.39
7+80 N80	ROD -7.7	ELEV. 530.1 ✓
7+90 N80	-8.0	529.8 ✓
8+00 N80	-8.3	529.5 ✓
8+10 N80	-8.2	529.6 ✓
8+20 N80	-8.7	529.1 ✓
8+30 N80	-9.7	528.1 ✓
8+40 N80	-10.2	527.6 ✓
8+50 N80	-10.1	527.7 ✓
8+60 N80	-8.0	529.8 ✓
8+70 N80	-6.2	531.6 ✓
7+80 N90	-7.6	530.2 ✓
7+90 N90	-8.0	529.8 ✓
8+00 N90	-8.1	529.7 ✓
8+10 N90	-7.7	530.1 ✓
8+20 N90	-8.8	529.0 ✓

	H.I. 537.84	ROD	
8+29 N 90	EDGE OF DITCH WEST	-10.2	527.6 ✓
8+40 N 90	EAST EDGE OF DITCH	-11.1	526.7 ✓
8+50 N 90		-10.5	527.3 ✓
8+60 N 90		-8.5	529.3 ✓
8+70 N 90		-7.0	530.8 ✓
CHECK B.M.		-1.45	536.39 ✓

JULY 22, 1949 LEONARD
 BAKER
 HYING
 CARVER.

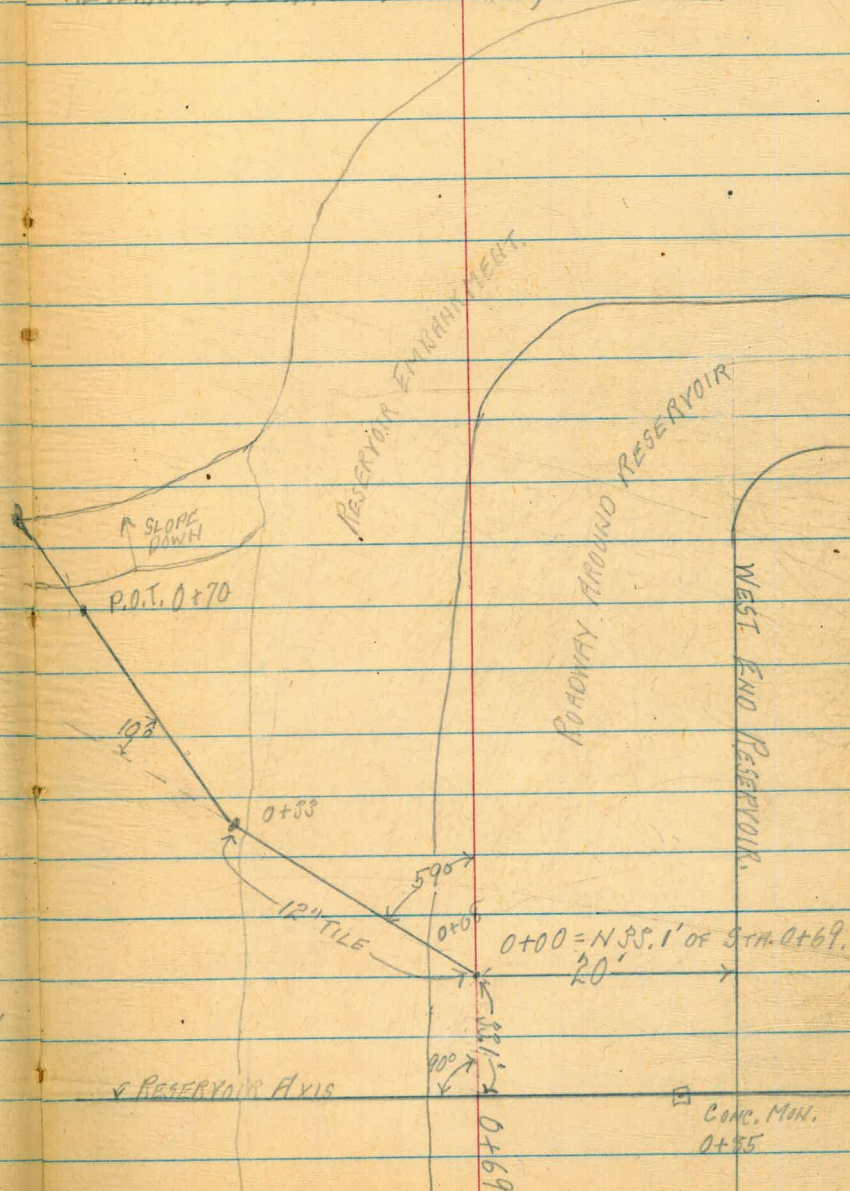
63.

PROFILE OVER ALTERNATE LOCATION.

ALTERNATE LOCATION 12" DRAIN, WEST END.

B.M.	+5.04	534.87	529.83 Mon. '6.
0+00		-4.9	530.0
0+08 EDGE BANK		-5.3	539.6
0+18		11.4	523.5
T.P.		-12.08	522.79 ✓
	+0.27	525.06 ✓	
0+29		-4.9	518.2
0+38 TOE BANK		-6.8	516.3
0+50		-7.4	515.7
0+72 TOP BANK		-8.0	515.1
T.P.		-12.55	510.51 ✓
	+0.56	511.07 ✓	
0+90 TOE OF SLOPE		-5.3	505.8
0+95 ORIGINAL GO.		-5.8	505.3
T.P.		-2.09	508.98 ✓
	+11.54	520.52 ✓	
CHECK T.P.M.		-4.05	516.47 = 516.44

OK.



Conc. Man.
 0+55

AUG. 4, 1949 LEONARD
 BAKER T. NO. 64,
 MYKE H.C.
 CARVER R.C.

ELEV. ON ROOF OVER COLUMNS; RESERVOIR EMPTY.

B.M. +8.42	538.26		529.84 Min. $\frac{2}{6}$
STATION OFFSET			
115.24 N 86.67		- 5.45	532.81
" N 67.33		- 5.37	532.89
" N 48.00		- 5.26	533.00
" N 28.67		- 5.20	533.06
" N 09.33		- 5.08	533.18
" S 10.00		- 4.98	533.28
" S 29.33		- 5.09	533.17
" S 48.67		- 5.17	533.09
" S 68.00		- 5.26	533.00
" S 87.33		- 5.38	532.88
" S 106.67		- 5.44	532.82
141.47 N 86.67		- 5.45	532.81
" N 67.33		- 5.37	532.89
" N 48.00		- 5.26	533.00
" N 28.67		- 5.15	533.11
" N 09.33		- 5.07	533.19
" S 10.00		- 4.97	533.29
" S 29.33		- 5.06	533.20
" S 48.67		- 5.16	533.10

H.I. = 538.26

141.47 S 68.00	- 5.26	533.00
S 87.33	- 5.37	532.89
S 106.67	- 5.45	532.81
167.70 N 86.67	- 5.47	532.79
N 67.33	- 5.39	532.87
N 48.00	- 5.28	532.98
N 28.67	- 5.19	533.07
N 09.33	- 5.08	533.18
S 10.00	- 4.99	533.27
S 29.33	- 5.08	533.18
S 48.67	- 5.18	533.08
S 68.00	- 5.26	533.00
S 87.33	- 5.37	532.89
S 106.67	- 5.46	532.80
193.93 N 86.67	- 5.45	532.81
N 67.33	- 5.38	532.88
N 48.00	- 5.27	532.99
N 28.67	- 5.16	533.10
N 09.33	- 5.08	533.18
S 10.00	- 4.98	533.28

H.I. = 538.26

193.93529.33	5.08	533.18
S 48.67	- 5.16	533.10
S 68.00	- 5.26	533.00
S 87.33	- 5.36	532.90
106.67	- 5.45	532.81
220.16 N 86.67	- 5.45	532.81
N 67.33	- 5.36	532.90
N 48.00	- 5.27	532.99
N 28.67	- 5.17	533.09
N 09.33	- 5.10	533.16
S 10.00	- 5.00	533.26
S 29.33	- 5.09	533.17
S 48.67	- 5.18	533.08
S 68.00	- 5.27	532.99
S 87.33	- 5.37	532.89
S 106.67	- 5.46	532.80
246.39 N 86.67	- 5.47	532.79
N 67.33	- 5.37	532.89
N 48.00	- 5.25	533.01
N 28.67	- 5.15	533.11

H.I. 538.26

a

246.39 N 09.33	- 5.07	533.19
S 10.00	- 4.97	533.29
S 29.33	- 5.07	533.19
S 48.67	- 5.16	533.10
S 68.00	- 5.25	533.01
S 87.33	- 5.36	532.90
S 106.67	- 5.44	532.82
272.62 N 86.67	- 5.47	532.79
N 67.33	- 5.39	532.87
N 48.00	- 5.27	532.99
N 28.67	- 5.18	533.08
N 09.33	- 5.10	533.16
S 10.00	- 4.98	533.28
S 29.33	- 5.09	533.17
S 48.67	- 5.17	533.09
S 68.00	- 5.28	532.98
S 87.33	- 5.36	532.90
S 106.67	- 5.45	532.81
298.85 N 86.67	- 5.44	532.82
N 67.33	- 5.35	532.91

H.I. = 538.26

298.85 N48.00	- 5.25	533.01
N28.67	- 5.16	533.10
N09.33	- 5.08	533.18
S10.00	- 4.96	533.30
S29.33	- 5.08	533.18
S48.67	- 5.17	533.09
S68.00	- 5.26	533.00
S87.33	- 5.37	532.89
S106.67	- 5.46	532.80
325.08 N86.67	- 5.45	532.81
N67.33	- 5.36	532.90
N48.00	- 5.26	533.00
N28.67	- 5.17	533.09
N09.33	- 5.09	533.17
N10.00	- 4.99	533.27
N29.33	- 5.09	533.17
1 48.67	- 5.14	533.12
S68.00	- 5.25	533.01
S87.33	- 5.38	532.88
S106.67	- 5.45	532.81

H.I. 538.26		or	
H.I.			
T.P. 1 ⁴ on Res. + 4.29	537.10	-5.45	532.81
351.31	N 86.67	-4.26	532.84
	N 67.33	-4.18	532.92
	N 48.00	-4.10	533.00
	N 28.67	-3.99	533.11
	N 09.33	-3.91	533.19
	S 10.00	-3.80	533.30
	S 29.33	-3.89	533.21
	S 48.67	-4.00	533.10
	S 68.00	-4.09	533.01
	S 87.33	-4.22	532.88
	S 106.67	-4.29	532.81
377.51	N 86.67	-4.30	532.80
	N 67.33	-4.21	532.89
	N 48.00	-4.10	533.00
	N 28.67	-4.01	533.09
	N 09.33	-3.93	533.17
	S 10.00	-3.81	533.29
	S 29.33	-3.91	533.19
	S 48.67	-4.02	533.08

HJ 537.10

ok

377.5/568.00	- 4.11	532.99
587.33	- 4.22	532.88
S106.67	- 4.32	532.78
403.77/86.67	- 4.29	532.81
N67.33	- 4.19	532.91
N48.00	- 4.10	533.00
N28.67	- 4.01	533.09
N09.33	- 3.88	533.22
S10.00	- 3.81	533.29
S29.33	- 3.93	533.17
S48.67	- 4.02	533.08
S68.00	- 4.11	532.99
S87.33	- 4.21	532.89
S106.67	- 4.30	532.80
430.00 N86.67	- 4.29	532.81
N67.33	- 4.20	532.90
N48.00	- 4.10	533.00
N28.67	- 4.01	533.09
N09.33	- 3.93	533.17
S10.00	- 3.80	533.30

H.I. 537.10

430.00	29.33	- 3.92	533.18
S 48.67		- 4.01	533.09
S 68.00		- 4.12	532.98
S 87.33		- 4.22	532.88
S 106.67		- 4.30	532.80
456.23N	86.67	4.31	532.79
N 67.33		- 4.19	532.91
N 48.00		- 4.09	533.01
N 28.67		- 4.00	533.10
N 09.33		- 3.89	533.21
S 10.00		- 3.81	533.29
S 29.33		- 3.91	533.19
S 48.67		- 4.00	533.10
S 68.00		- 4.09	533.01
S 87.33		- 4.19	532.91
S 106.67		- 4.29	532.81
482.46N	86.67	- 4.31	532.79
N 67.33		- 4.22	532.88
N 48.00		- 4.12	532.98
N 28.67		- 4.03	533.07

H.I. 53710

482.46N 09.33	- 3.94	533.16
S 10.00	- 3.83	533.27
S 29.33	- 3.93	533.17
S 48.67	- 4.01	533.09
S 68.00	- 4.13	532.97
S 87.33	- 4.21	532.89
S 106.67	- 4.31	532.79
508.69N 86.67	- 4.29	532.81
N 67.33	- 4.19	532.91
N 48.00	- 4.10	533.00
N 28.67	- 4.00	533.10
N 09.33	- 3.91	533.19
S 10.00	- 3.81	533.29
S 29.33	- 3.93	533.17
S 48.67	- 4.00	533.10
S 68.00	- 4.10	533.00
S 87.33	- 4.21	532.89
534.92S 106.67	- 4.29	532.81
534.92N 86.67	- 4.31	532.79
N 67.33	- 4.20	532.90

H.I. 53710

ok

534.92	48.00	-4.10	533.00
-4.00	28.67	-4.00	533.10
3.93	09.33	-3.93	533.17
3.83	10.00	-3.83	533.27
3.94	29.33	-3.94	533.16
4.02	48.67	-4.02	533.08
4.10	68.00	-4.10	533.00
4.20	87.33	-4.20	532.90
4.31	106.67	-4.31	532.79
561.15 N	86.67	-4.30	532.80
	N 67.33	-4.21	532.89
	- N 48.00	-4.08	533.02
	N 58.67	-4.00	533.10
	N 09.33	-3.90	533.20
	S 10.00	-3.79	533.31
	S 29.33	-3.90	533.20
	S 48.67	-4.00	533.10
	S 68.00	-4.11	532.99
	S 87.33	4.18	532.92
	S 106.67	-4.29	532.81

4.7. 537.10

T.P. 2 ⁰⁰ Res. Top	+5.27	H.I. 538.09	-4.28	532.82
587.30 N 86.67			-5.29	532.80
N 67.33			-5.18	532.91
N 48.00			-5.09	533.00
N 28.67			-5.00	533.09
N 09.33			-4.89	533.20
S 10.00			-4.80	533.29
S 29.33			-4.92	533.17
S 48.67			-5.00	533.09
S 68.00			-5.09	533.00
S 87.33			-5.20	532.89
S 106.67			-5.28	532.81
613.61 N 86.67			-5.28	532.81
N 67.33			-5.18	532.91
N 48.00			-5.08	533.01
N 28.67			-4.97	533.12
N 09.33			-4.88	533.21
S 10.00			-4.80	533.29
S 29.33			-4.89	533.20
S 48.67			-4.99	533.10

H.I. 538.09

S 68.00	- 5.08	533.01
S 87.33	- 5.20	532.89
S 106.67	- 5.28	532.81
639.84 N 86.67	- 5.26	532.83
H 67.33	- 5.19	532.90
H 48.00	- 5.09	533.00
H 28.67	- 5.00	533.09
N 09.33	- 4.93	533.16
S 10.00	- 4.80	533.29
S 29.33	- 4.92	533.17
S 48.67	- 5.00	533.09
S 68.00	- 5.10	532.99
S 87.33	- 5.20	532.89
S 106.67	- 5.28	532.81
666.07 N 86.67	- 5.29	532.80
H 67.33	- 5.18	532.91
H 48.00	- 5.08	533.01
N 28.67	- 4.98	533.11
N 09.33	- 4.89	533.20
BM. ON DAM + 1.78	HF = 538.17	536.39
S 10.00	- 4.86	533.31

H.I. 538.17

666.07	529.33	-4.97	533.20
	548.67	-5.06	533.11
	568.00	-5.16	533.01
	587.33	-5.27	532.90
	5106.67	-5.37	532.80
692.30	N 86.67	-5.28	532.81
	N 67.33	-5.20	532.89
	N 48.00	-5.09	533.00
	N 28.67	-5.00	533.09
	N 09.33	-4.90	533.19
B.M. ON DAM	+1.78	H.I. 538.17	534.39
	5 10	-4.90	533.27
	5 29.33	-4.99	533.18
	5 48.67	-5.05	533.12
	5 68.00	-5.17	533.00
	5 87.33	-5.23	532.94
	5 106.67	-5.36	532.81
718.53	N 86.67	-5.29	532.80
	N 67.33	-5.20	532.89
	N 48.00	-5.08	533.01
	N 28.67	-5.00	533.09

	H.I. 538.09		
718.53 N 69.33		- 4.91	533.18
B.M. ON DAM +1.78	H.I. 538.17		536.39
.510		- 4.89	533.28
S 29.33		- 4.95	533.22
S 48.67		- 5.06	533.11
S 68.00		- 5.17	533.00
S 87.33		- 5.26	532.91
S 106.67		- 5.36	532.81
	H.I. 538.09		
744.76 N 86.67		- 5.29	532.80
N 67.33		- 5.18	532.91
N 48.00		- 5.11	532.98
N 28.67		- 5.03	533.06
N 09.33		- 4.90	533.19
CK B.M. MON # 8		8.18	529.91
MON # 7		- 8.16	529.93
B. Mon DAM +1.78	538.17		536.39
744.76 S 10		- 4.85	533.32
S 29.33		- 4.96	533.21
S 48.67		- 5.07	533.10
S 68.00		- 5.14	533.03

H.I. = 538.17

744.76 S 87.33	-5.28	532.89
S 106.107	-5.38	532.79
CK BM.	-1.78	= 536.390K
		= 536.390K.

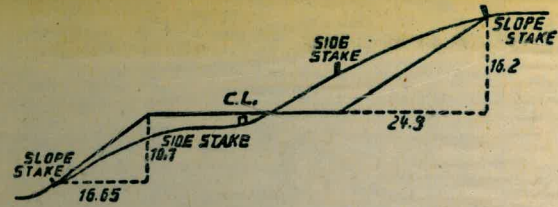
$$\begin{array}{r} 538.03 \\ + 4.067 \\ \hline 542.097 \\ - 4.08 \\ \hline 538.017 \end{array}$$
$$\begin{array}{r} 538.09 \\ 529.92 \\ \hline 8.17 \\ 538.09 \\ 529.90 \\ \hline 8.19 \end{array}$$

CITY OF SAN DIEGO

REED

OCT 5 1948

RESIDENT ENGINEER



DISTANCES FROM SIDE STAKES FOR CROSS-SECTIONING.
SLOPE 1½ 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

THE NATIONAL BLANK BOOK COMPANY
 HOLYOKE MASSACHUSETTS
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