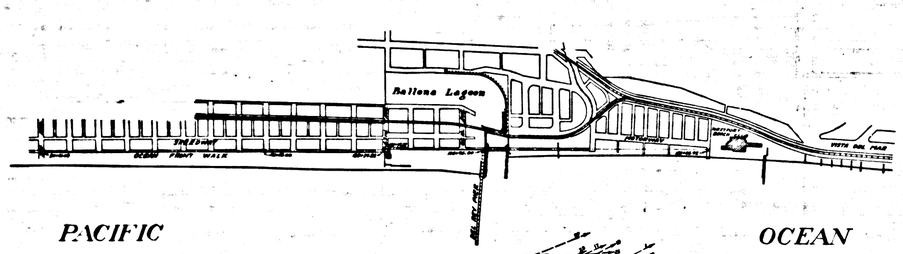
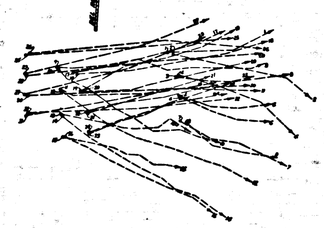
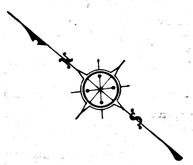






DEC. 20, 1935

FLOAT NUMBER	TIME SET	TIME TAKEN UP	FEET TRAVELED PER MINUTE	TIDE	HEIGHT OF FLOAT IN FEET
1	8:46 AM	9:17 AM	13	EBB	12
2	8:47	9:32	19	EBB	6
3	8:48	9:31	15	EBB	12
4	8:49	9:55	17	EBB	6
5	8:50	9:53	13	EBB	12
6	8:51	9:54	13	EBB	6
7	8:52	9:56	15	EBB	12
8	8:53	9:57	13	EBB	6
9	10:03	12:34 PM	12	EBB	12
10	10:03	12:36	10	EBB	6
11	10:06	12:35	12	EBB	12
12	10:07	12:40	12	EBB	6
13	10:08	12:37	8	EBB	12
14	10:09	12:41	11	EBB	6
15	10:10	12:39	7	EBB	12
16	10:11	12:42	9	EBB	6
17	1:16 PM	2:30	17	FLOOD	12
18	1:17	2:32	22	FLOOD	6
19	1:18	2:31	20	FLOOD	12
20	1:19	2:33	20	FLOOD	6
21	1:20	2:35	15	FLOOD	12
22	1:22	2:34	19	FLOOD	6
23	1:23	2:37	16	FLOOD	12
24	1:24	2:38	16	FLOOD	6
25	2:45	3:56	25	FLOOD	12
26	2:45	3:55	29	FLOOD	6
27	2:46	3:57	23	FLOOD	12
28	2:47	3:59	28	FLOOD	6
29	2:47	3:58	22	FLOOD	12
30	2:48	4:00	26	FLOOD	6
31	2:49	4:02	23	FLOOD	12
32	2:50	4:01	27	FLOOD	6

TIME	DIRECTION AND VELOCITY OF WIND	DIRECTION AND HEIGHT OF WAVES
8:46 AM	N 70° E. 8 M.P.H	N 70° E. 3" High
9:00	N 60° E. 10 "	N 70° E. 3" "
9:30	N 35° E. 18 "	N 70° E. 3½" "
10:00	N 70° E. 3 "	N 70° E. 3.7" "
10:30	N 50° E. 5 "	N 70° E. 3.7" "
11:00	N 50° E. 7 "	N 70° E. 3.7" "
11:30	N 35° E. 6 "	N 70° E. 3.7" "
12:00 M	N 30° E. 4 "	N 70° E. 3.7" "
12:30 PM	N 30° E. 3 "	N 70° E. 3.7" "
1:16	S 70° W. 8 "	N 70° E. 3.7" "
2:00	S 70° W. 8 "	N 70° E. 3½" "
2:30	WEST 8 "	N 70° E. 3" "
3:00	S 70° W. 5 "	N 70° E. 2.7" "
3:30	S 70° W. 7 "	N 70° E. 3" "
4:00	N 45° W. 14 "	N 70° E. 3½" "

NOTE— Direction of wind is that from which it is blowing. Direction of waves is that towards which they are moving.

MAP SHOWING

CURRENT STUDIES AT MOUTH OF BALLONA CREEK

COUNTY SURVEYORS MAP Nº B-1155.

SCALE - 1 INCH = 400 FT.

JOB NUMBER 8109

ALFRED JONES - COUNTY SURVEYOR.

SURVEYED ---- DECEMBER 1935.

SURVEYED UNDER INSTRUCTIONS OF THE BOARD OF SUPERVISORS PER ORDER DATED SEPT. 16, 1935.

BEARINGS ARE BASED ON THE BEARING OF

CONTROL BY LOS ANGELES CITY ENGINEER FLOAT DRIFT - F. B'S 618, 619 & 620, PAGES 101-122, 133-144.

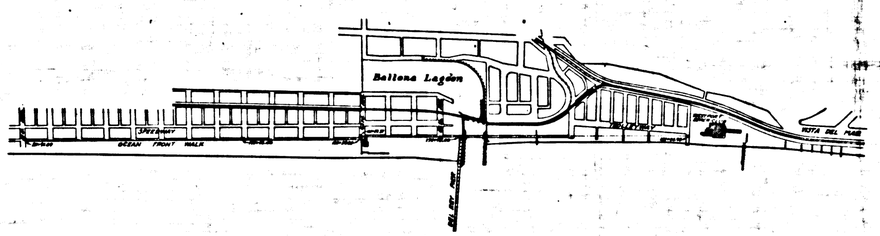
FIELD WORK BY..... S.E. BUTLER.
OFFICE WORK BY..... J.D. PRICE.
H.N. BRADSHREET.
F.A. WOOD.
CHECKED BY..... A.A. ROESER.

INDEX 23

CS B-1155
A1 OF A3

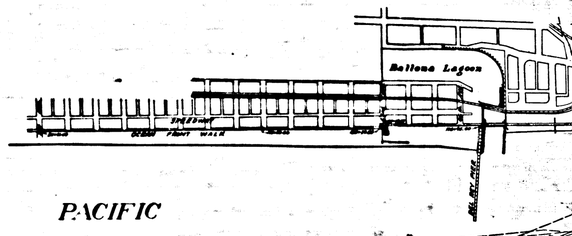
FOR BLUE PRINTING
WIDTH OF MAP = 24 INCHES
AREA / FOOT LENGTH = 2 ☐'
TOTAL AREA OF MAP = 20 ☐'

COUNTY SURVEYORS MAP No. B-1155



PACIFIC

OCEAN



PACIFIC

DEC. 18, 1935

FLOAT NUMBER	TIME SET	TIME TAKEN UP	FEET TRAVELED PER MINUTE	TIDE	HEIGHT OF FLOAT IN FEET
1	8:03 A.M.	10:59 A.M.	7	EBB	12
2	8:04	10:57	10	EBB	6
3	8:06	11:03	5	EBB	12
4	8:07	10:58	9	EBB	6
5	8:08	11:02	7	EBB	12
6	8:09	11:01	8	EBB	6
7	8:10	11:05	5	EBB	12
8	8:11	11:00	9	EBB	6
9	11:41	3:44 P.M.	5	FLOOD	12
10	11:42	2:41	11	FLOOD	6
11	11:43	3:46	3	FLOOD	12
12	11:43	2:49	8	FLOOD	6
13	11:44	3:43	7	FLOOD	12
14	11:45	3:41	7	FLOOD	6
15	11:46	3:49	3	FLOOD	12
16	11:47	3:45	5	FLOOD	6
17	2:52 P.M.	3:47	3	FLOOD	6
18	2:53	3:50	3	FLOOD	6

TIME	DIRECTION AND VELOCITY OF WIND	DIRECTION AND HEIGHT OF WAVES
8:03 A.M.	N. 38°E. 10 M.P.H.	N. 60°E. 3' High
8:30	N. 48°E. 8 "	N. 60°E. 3' "
9:00	N. 45°E. 10 "	N. 60°E. 2½' "
9:30	N. 45°E. 15 "	N. 60°E. 3½' "
10:00	N. 45°E. 10 "	N. 60°E. 3½' "
10:30	N. 60°E. 10 "	N. 65°E. 3½' "
11:00	N. 45°E. 8 "	N. 60°E. 3½' "
11:30	N. 60°E. 8 "	N. 60°E. 3½' "
12:00 M.	N. 60°E. 8 "	N. 65°E. 3' "
12:30 P.M.	N. 40°E. 10 "	N. 65°E. 3' "
1:00	N. 50°E. 5 "	N. 60°E. 2½' "
1:30	N. 45°E. 4 "	N. 60°E. 2½' "
2:00	N. 45°E. 6 "	N. 65°E. 2½' "
2:30	S. 15°E. 3 "	N. 70°E. 2½' "
3:00	S. 45°W. 3 "	N. 75°E. 3' "
3:30	S. 45°W. 3 "	N. 75°E. 3' "
3:52	S. 40°W. 5 "	N. 75°E. 2½' "

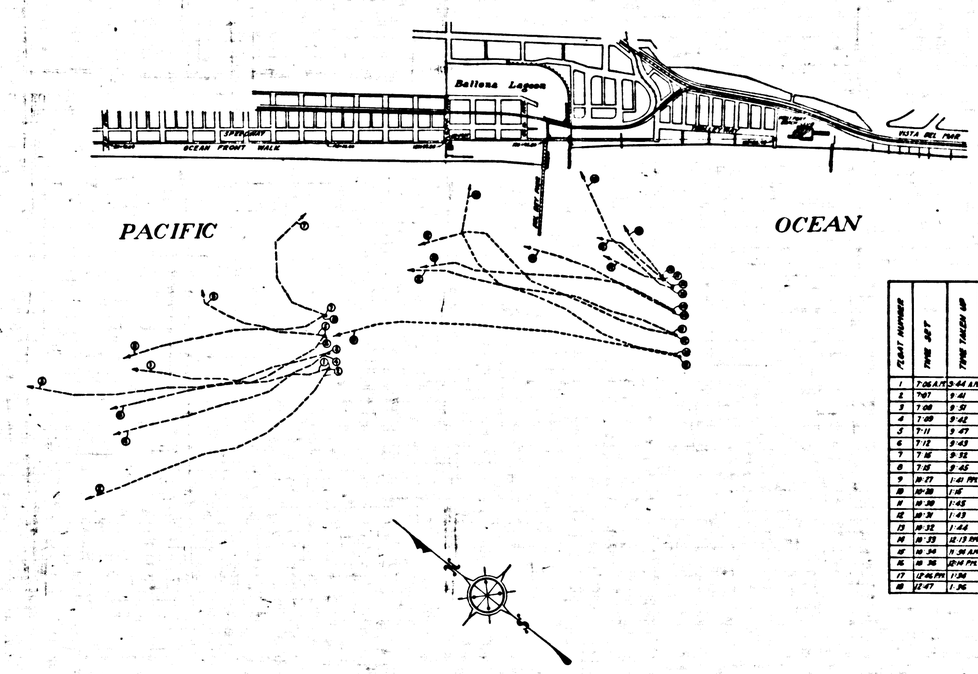
NOTE:—
Direction of wind is that from which it is blowing — direction of waves is that toward which they are going.

DIRECTION AND VELOCITY OF WIND	DIRECTION AND HEIGHT OF WAVES
...TH 15 M.P.H.	N. 60°E. 4' High
...TH 12 "	N. 60°E. 4' "
...E 10 "	N. 60°E. 4' "
...E 8 "	N. 60°E. 4' "
...0°E 8 "	N. 60°E. 4' "
...5°E 5 "	N. 60°E. 3½' "
...0°E 5 "	N. 60°E. 3½' "
...M.	N. 70°E. 3' "
...W. 3 "	N. 70°E. 3' "
...W. 5 "	N. 70°E. 3' "
...W. 3 "	N. 70°E. 2½' "
...ST 8 "	N. 70°E. 2½' "
...ST 3 "	N. 75°E. 2½' "
...W. 3 "	N. 75°E. 2½' "

...of wind is that from which ...g — direction of waves is that ...which they are moving.

CS B-1155
A2 OF A3

COUNTY SURVEYORS MAP No B-1155



DEC. 17, 1935

FLOAT NUMBER	TIME SET	TIME TAKEN UP	FEET TRAVELED PER MINUTE	TIDE	HEIGHT OF FLOAT IN FEET
1	7:06 A.M.	9:44 A.M.	11	EBB	12
2	7:07	9:41	16	EBB	6
3	7:08	9:51	16	EBB	12
4	7:09	9:42	13	EBB	6
5	7:11	9:47	8	EBB	12
6	7:12	9:43	13	EBB	6
7	7:16	9:52	9	EBB	12
8	7:18	9:45	12	EBB	6
9	11:17	1:41 P.M.	16	FLOOD	12
10	11:20	1:15	16	FLOOD	6
11	11:30	1:45	12	FLOOD	12
12	11:31	1:43	12	FLOOD	6
13	11:32	1:46	11	FLOOD	12
14	11:33	12:13 P.M.	14	FLOOD	6
15	11:34	9:34 A.M.	9	FLOOD	12
16	11:36	12:14 P.M.	13	FLOOD	6
17	12:46 P.M.	1:34	8	FLOOD	12
18	12:47	1:36	12	FLOOD	6

TIME	DIRECTION AND VELOCITY OF WIND	DIRECTION AND HEIGHT OF WAVES
7:00 A.M.	NORTH 15 M.P.H.	N.60°E 4' high
7:29	NORTH 12 "	N.60°E 4' "
8:00	N.10°E 10 "	N.60°E. 4' "
8:20	N.45°E 8 "	N.60°E 4' "
9:00	N.40°E 8 "	N.60°E. 4' "
9:30	N.65°E 6 "	N.60°E. 3½' "
10:00	N.60°E 5 "	N.60°E 1½' "
10:30	CALM	N.70°E. 3' "
11:00	S.85°W 3 "	N.70°E. 3' "
11:29	S.45°W 5 "	N.70°E 3' "
11:30 P.M.	S.60°W 3 "	N.70°E. 2½' "
12:30 P.M.	WEST 8 "	N.70°E. 2½' "
1:00	WEST 3 "	N.75°E. 2½' "
1:30	N.25°W. 3 "	N.75°E. 2½ "

NOTE:— Direction of wind is that from which it is blowing — direction of waves is that toward which they are moving.

CS B 1155
A3 OF A3

COUNTY SURVEYOR'S MAP No B-1155