F. B. 1884 Pg. 5

Map No.
Office Work
Checked
Date

W. O. Tape No. Sta.
Surveyed by
Notes Date
Indexed 11-5-53

BEACH EROSION STUDIES

~ Book 4 ~

J.N. 8412

OCTOBER 1953 SOUNDINGS

From Station 38+00N to Station 112+00N

For INSHORE SEE
C.H. CITY F.B.

[redacted] pages 32 to 59
and 23933 - pages 8 to 19

Microfilmed Jan '87

Book 3 = 1887
Book 5 = 1889

Party
Blanchard
Shoemaker
Ullarriet
Kuommen
Goodwin
Schonfeldt
Oben
McCrath
Rabbin

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

F.B. 1988 PG. 6

F. B. [illegible] PG. [illegible]

Map No. _____ W. O. _____ Tape No. _____ St'd. _____ °F
Office Work _____ Surveyed by _____
Checked _____ Notes _____ Date _____
Date _____ Indexed _____

TIDE GAGE

STANDARD TIME OCT 14 1953

HOUR	TIDE
5:00	3.4
5:30	3.4
6:00	3.4
6:30	3.5
7:00	3.7
7:30	3.8
8:00	4.0
8:30	4.2
9:00	4.4
9:30	4.6
10:00	4.7
10:30	4.9
11:00	5.1
11:30	5.1
12:00	5.1
12:30	5.1
1:00	5.0

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

F. B. 1888 PG. 8

TIDE GAGE

STANDARD TIME OCT 15 1953

HOUR	TIDE
6:00	3.6
6:30	3.6
7:00	3.6
7:30	3.7
8:00	3.7
8:30	3.8
9:00	3.8
9:30	3.9
10:00	4.0
10:30	4.2
11:00	4.3
11:30	4.5
12:00	4.6
12:30	4.7
1:00	4.7

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76F3098 247 4-53

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726 LOS ANGELES COUNTY
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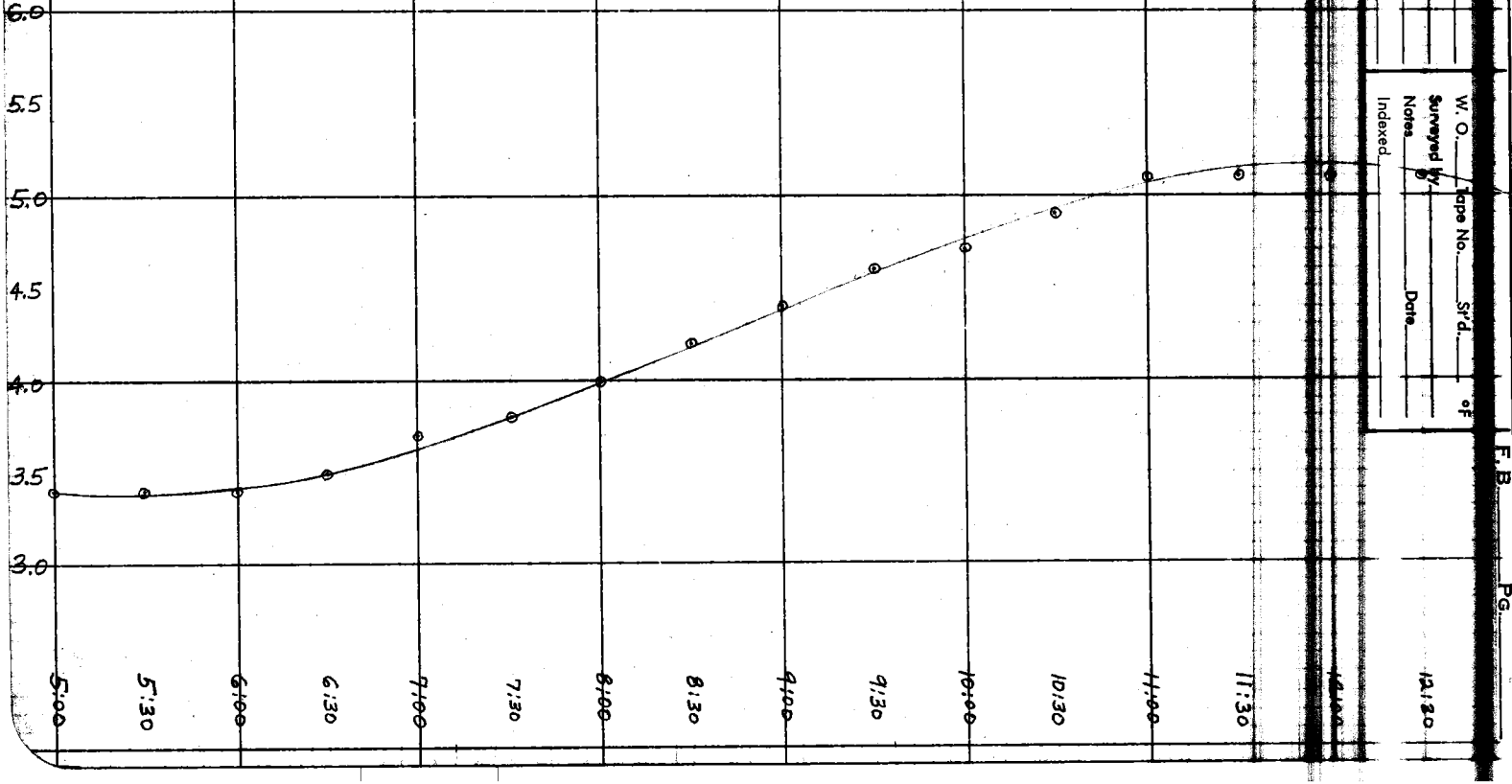
Do not extend notes this side of this line.

October 14, 1953



Map No.
Office Work
Checked
Date

W. O. Tape No. Sr'd. of
Surveyed by
Notes Date
Indexed

F. B. Pg.

F. B._____ PG._____

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76L298 307 10-51

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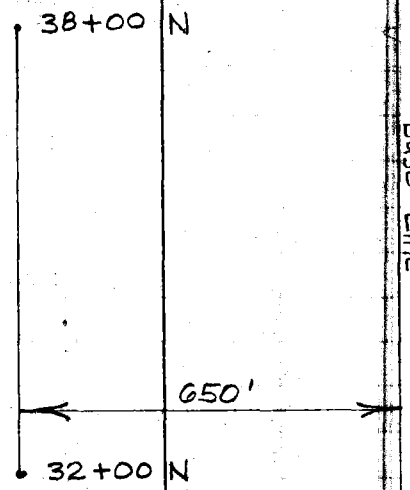
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	38+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
38+00 N	32+00 N	1	B & W	6:34	90° 00'		
		2	R		90° 00'		
		3	Y		90° 00'		
		4	B & W	6:37	90° 00'		
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B & W	6:40	90° 00'		
		8	R		89° 49'		
		9	Y		90° 00'		
		10	B & W	6:43	90° 00'		
		11	R		90° 00'		
		12	Y		90° 00'		
		13	B & W	6:45	89° 49'		
		14	R		90° 00'		
		15	Y		90° 00'		
		16	B & W	6:47	90° 00'		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B & W	6:50	90° 00'		
		20	R		90° 00'		



Profile Notes Red ____ Plotted ____ Job No. 9410 Division No. ____

X-Sec. Notes Chkd. ____ Checked ____ Survey by [illegible] Notes [illegible] Date [illegible]

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 Pg. 9

76L298 307 10-51

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Do not extend notes this side of this line.

F.B. 1888 PG. 10

Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ No. _____ Profile

Survey of Beach Erosion Study Date _____ Date _____ X-Sec.

Survey by FHB Notes CEM 10/14/53 Notes Chkd. _____ Checked _____

Indexed _____ Date _____ Date _____ No. _____

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	38+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B&W	6:53	90°00'		
		23	R		90°00'		
		24	Y		89°46'		
		25	B&W	6:55	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B&W	6:57	90°00'		
		29	R		90°00'		
		30	Y		90°00'		
		31	B&W	6:58	90°00'		
		32	R		90°00'		
		33	Y		90°00'		
		34	B&W	7:01	90°00'		
		35	R		90°00'		
		36	Y		90°00'		
		37	B&W	7:03	90°00'		
		38	R		90°00'		
		39	Y		90°00'		
		40	B&W	7:04	90°00'		

RANGE 38+00 N 38+00 N 32+00 N

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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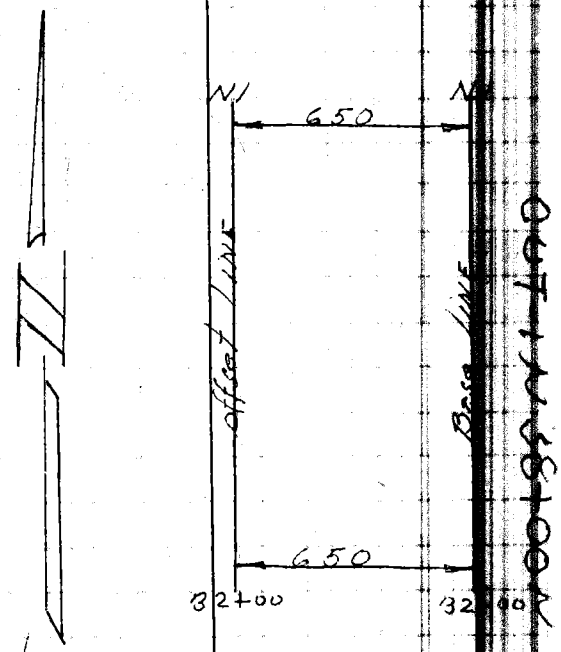
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
32+00	N1 650 off	1	B/W	6 [illegible]	72° 3[illegible]	
		2	R		[illegible]	
		3	Y		70° [illegible]	
		4	B/W	6 [illegible]	[illegible]	
		5	R		[illegible]° 51	
		6	Y		65° 09	
		7	B/W	[illegible]	[illegible]	
		* 8	R		[illegible]	
		9	Y		[illegible] 22	
		10	B/W	[illegible]	58° 43	
		11	R		57° 28	
		12	Y		55° 49	
		* 13	B/W	46	54° 19	
		14	R		52° 54	
		15	Y		50° 53	
		16	B/W	49	49° 09	
		17	R		49° 03	
		18	Y		50° 12	* Boat out
		19	B/W	6 52	50° 25	* "
		20	R		48° 53	

CUT IN 38+00

Note
Inst on 650 [illegible]



OUT IN 38+00

Profile Notes Red. Plotted Job No. [illegible] Division No.
No. Date Date Map No. Indexed Date
Notes Chkd. Checked Survey By [illegible] Notes [illegible] Date
F. B. [illegible] Pg. 11

76L298 307 4-50

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION ~~Inst. Sight~~ At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
32+00	N/ 6500 ft	21	Y		47 21	
		22	B/W	6 53	45 47	
		23	R		43 29	
		* 24	Y		4[illegible] 20	
		25	B/W	6 56	[illegible] 30	
		26	R		41 17	*
		27	Y		40 [illegible]	
		28	B/W	6 59	30 16	
		29	R		3[illegible] 22	
		30	Y		3[illegible] [illegible]1	*
		31	B/W	7 00	34 03	
		32	R		32 15	*
		33	Y		3[illegible] 11	
		34	B/W	7 02	3[illegible] 3	*
		35	R		3[illegible] [illegible]0	
		36	Y		3[illegible] [illegible]	*
		37	B/W	7 04	32 57	
		38	R		32 29	
		39	Y		31 3	
		40	B/W	7 06	2[illegible] 4	

CUT-IN 38+00

cut in 38+00

F. B. 1888 Pg. 12
Job No. 8412 Division No. 1 Notes Red. Plotted Profile
Survey of Beach Erodgn Hulles Date Date No.
Survey by FHB Notes JS Notes Chkd. Checked X-Sec.
Indexed 2 Date 10/14/53 Date Date No.

76L298 307 4-50

3.8

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	38+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B&W	6:34	33.6 32.7		3.5		2565
2	R		33.0 31.7	32.1	3.5	28.6	2460
3	Y		31.1 30.6	30.8	3.5	27.3	2313
4	B&W	6:39	30.1 29.4	29.6	3.5	26.1	2130
5	R		29.3 27.9	28.4	3.5	24.9	2052
6	Y		28.1 27.0	27.4	3.5	23.9	1941
7	B&W	6:42	27.7 25.9	26.5	3.5	23.0	1856
8	R		26.8 25.0	25.6	3.5	22.1	~~1789~~ 1784
9	Y		26.5 25.1	25.6	3.5	22.1	1704
10	B&W	6:44	25.9 24.5	25.0	3.5	21.5	1636
11	R		25.4 24.0	24.5	3.6	20.9	1590
12	Y		24.4 23.5	23.8	3.6	20.2	1533
13	B&W	6:47	24.1 23.0	23.4	3.6	19.8	1485
14	R		23.8 23.0	23.3	3.6	19.7	1443
15	Y		23.6 22.0	22.5	3.6	18.9	1397
16	B&W	6:49	23.3 21.0	21.8	3.6	18.2	1343
17	R		22.8 21.3	21.8	3.6	18.2	1346
18	Y		23.1 22.0	22.4	3.6	18.8	1370
19	B&W	6:53	23.4 22.0	22.5	3.6	18.9	1376
20	R		22.6 21.9	22.1	3.6	18.5	1337

Profile Notes Red. CEM Plotted ____ Job No. ____ Division No. ____ F. B. 1887 Pg. 13

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	38+00 N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		22.1 / 21.6	21.4	3.6	17.8	1301
22	B&W	6:55	21.9 / 20.9	21.2	3.6	17.6	1260
23	R		21.1 / 20.3	20.6	3.6	17.0	1219
24	Y		20.7 / 18.9	19.5	3.6	15.9	1177
25	B&W	6:57	18.9 / 17.1	18.1 ~~17.7~~	3.6	14.5 ~~14.1~~	1145
26	R		20.8 / 18.9	19.5	3.6	15.9	1186
27	Y		20.0 / 18.2	18.8	3.6	15.2	1166
28	B&W	6.58	18.0 / 17.0	17.3	3.6	13.7	1132
29	R		17.2 / 16.7	16.9	3.6	13.3	1110
30	Y		16.6 / 15.3	15.7	3.6	12.1	1080
31	B&W	7:00	16.0 / 15.0	15.3	3.6	11.7	1056
32	R		15.0 / 13.9	14.3	3.6	10.7	1036
33	Y		16.0 / 14.7	15.1	3.6	11.5	1042
34	B&W	7.03	15.6 / 14.3	14.7	3.6	11.1	1043
35	R		15.8 / 14.2	14.7	3.6	11.1	1047
36	Y		15.6 / 14.7	15.0	3.6	11.4	1054
37	B&W	7:05	15.1 / 13.2	13.8	3.6	10.2	1039
38	R		15.7 / 13.1	14.0	3.7	10.3	1032
39	Y		14.1 / 13.1	13.4	3.7	9.7	1012
40	B&W	7.07	13.7 / 12.9	13.2	3.7	9.5	984

F. B. 1887 Pg. 12
Job No. ERGSLOW Division No. Notes Red. CEM Plotted Profile
Survey of Notes GR. 10/14/53 Date 12/17/53 Date No. X-Sec.
Survey by FHB Date Notes Chkd. KPK Checked
Indexed Date Date 1-5-54 Date No.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	38+00N

Inst. At / Sight On

#	Color	Time	Hor. Ang.	Remarks
41	R		89° 44'	
42	Y		90° 00'	
43	BEW	7:07	90° 00'	
44	R		90° 00'	
45	Y		89° 48'	

RANGE 38+00N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____

F.B. 1888 Pg. 15

No. ____ Date ____ No. ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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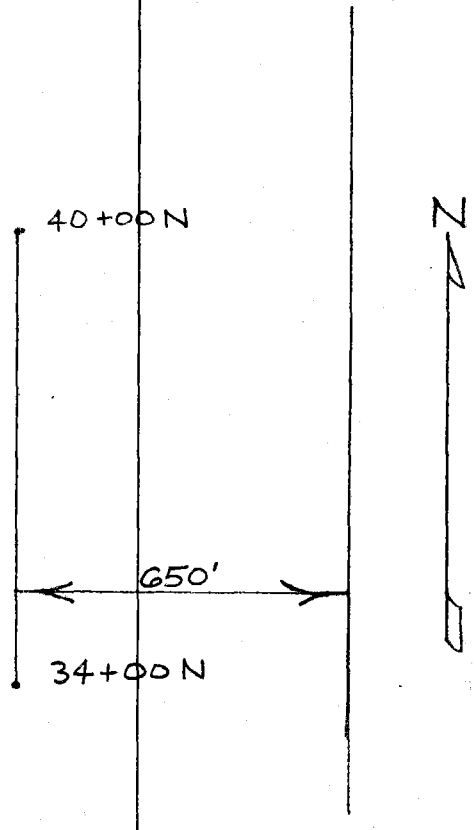
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	40+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	B&W	7:19	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	7:22	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
40+00 N	34+00 N	7	B&W	7:25	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	7:27	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	7:29	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	7:31	89°51'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	7:33	90°00'		
		20	R		90°00'		



F.B. 1888 PG. 16 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of Beach Erosion Study Date ____ Date ____ No. ____
Survey by FHB Notes CEM 10/14/53 Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ No. ____

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	CUT IN 38+00
32+00	N1	*41	R		26° 49		
		42	Y		24° 59		
		43	B/W	7 08	23° 23		
		44	R		20° 38		
		*45	Y		19° 26		

CUT-IN 38+00N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. [illegible] Pg. 17

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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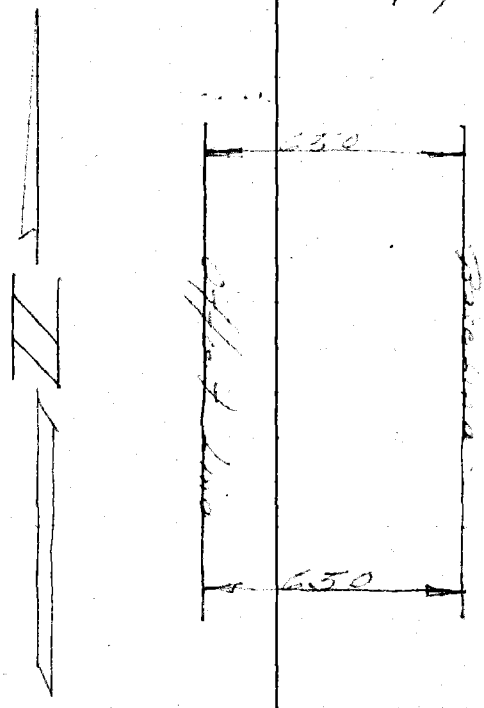
STATION ~~Inst. Sight~~ At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
34+00	N1 650 off	1	Btw	7 21	7	Note
		2	R		68 32	Inst on 650 foot offset
		3	Y		67 47	
		4	Btw	7 23	66 8	
		5	R		64 50	
		6	Y		63 42	
		7	Btw	7 27	63 3	
		8	R		60	
		9	Y		59 18	
		10	Btw	7 29	57 27	
		11	R		56 [illegible]	
		12	Y		54 25	
		13	Btw	7 31	52 17	
		14	R		53 33	
		15	Y		49 17	
		16	Btw	7 33	47 18	
		17	R		45 20	
		18	Y		43 31	
		19	Btw	7 35	41 23	
		20	R		38 45	

CUT-IN 40+00



F. B. 1888 Pg. 18
Job No. 2912 Division No. Notes Red Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F.H.B. Notes Notes Chkd Checked X-Sec.
Indexed Date 10/24/53 Date Date No.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	38+00

#	Color	Time	Meas. Depth	Bottom Side	Adj. Depth	Remarks
41	R		13.2 12.0	12.4	3.7	8.7 953
42	Y		11.9 11.0	11.3	3.7	7.6 930
43	R+W	7.09	11.2 10.0	10.4	3.7	6.7 910
44	R		10.2 8.7	9.2	3.7	5.5 876
45	Y		9.0 7.9	8.3	3.7	4.6 862

Profile Notes Red. CFM Plotted ____ Job No. ____ Division No. ____ F. B. 188 Pg. 19

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____

No. ____ Date 1-5-52 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	40+00 N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	7:21	32.1 31.2	31.5	3.7	27.8	2340
2	R		31.0 29.6	30.1	3.7	26.4	2201
3	Y		30.1 28.8	29.2	3.7	25.5	2120
4	B+W	7:23	29.0 28.4	28.6	3.8	24.8	2008
5	R		28.8 27.2	27.6	3.8	23.8	1929
6	Y		28.1 26.6	27.1	3.8	23.3	1865
7	B+W	7:26	26.9 26.0	26.3	3.8	22.5	1798
8	R		26.1 25.0	25.4	3.8	21.6	1730
9	Y		26.0 25.1	25.4	3.8	21.6	1681
10	B+W	7:28	25.8 24.9	25.2	3.8	21.4	1607
11	R		26.0 24.3	24.9	3.8	21.1	1556
12	Y		25.0 24.0	24.3	3.8	20.5	1493
13	B+W	7:31	24.9 23.0	23.6	3.8	19.8	1439
14	R		23.5 22.8	23.0	3.8	19.2	1472
15	Y		23.3 22.4	22.7	3.8	18.9	1347
16	B+W	7:33	22.2 21.2	21.5	3.8	17.7	1300
17	R		22.1 21.0	21.4	3.8	17.6	1256
18	Y		21.4 20.5	20.8	3.8	17.0	1219
19	B+W	7:35	20.9 19.5	20.0	3.8	16.2	1179
20	R		19.3 18.0	18.4	3.8	14.6	1130

F. B. 1888 Pg. 20

Job No. ____ Division No. ____ Notes Red. CEM Date 12/17/53 Plotted ____ Date ____ Profile ____ No. ____

Survey of ____ Notes ____ Date ____ Checked ____ Date 1-5-54 X-Sec. ____ No. ____

Survey by ____ Indexed ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		40+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B & W	7:35	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B & W	7:37	90°00'		
40+00 N	34+00 N	26	R		90°00'		
		27	Y		90°00'		
		28	B & W	7:38	90°00'		
		29	R		89°39		
		30	Y		90°00'		
		31	B & W	7:40	90°00'		
		32	R		90°00'		
		33	Y		90°00'		
		34	B & W	7:42	90°00'		
		35	R		90°00'		
		36	Y		90°00'		
		37	B & W	7:44	90°00'		

RANGE 40+00 N

Profile Notes Red. Plotted Job No. 8412 Division No.

No. Date Date Survey of [illegible]

Notes Chkd. Checked Survey by [illegible]

No. Date Date Map No. Indexed Date

F.B. 1888 PG. 21

76L298 307 10-51

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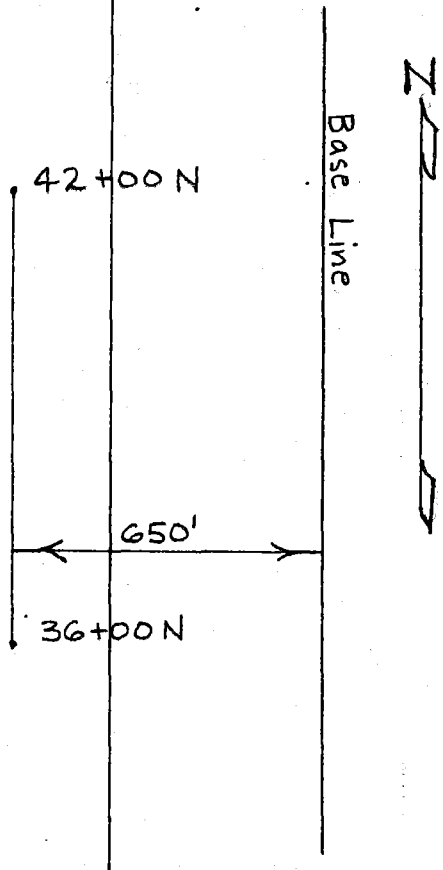
STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At On	#	Color	Time	Hor. Ang.
	1	B&W	7:57	90°00'
	2	R		90°00'
	3	Y		90°00'
	4	B&W	8:00	90°00'
	5	R		90°00'
N	6	Y		90°00'
42+00 N	7	B&W	8:02	90°00'
36+00 N	8	R		90°00'
	9	Y		90°00'
	10	B&W	8:05	90°00'
	11	R		90°00'
	12	Y		90°00'
	13	B&W	8:07	90°00'
	14	R		90°00'
	15	Y		90°00'
	16	B&W	8:08	90°00'
	17	R		90°00'
	18	Y		90°00'
	19	B&W	8:10	90°00'
	20	R		90°00'

RANGE 42+00N

RANGE 42+00N

Remarks



F.B. 1888 PG. 22 Job No. 8412 Division No. Notes Red. Plotted Profile No.
Survey of Beach Erosion Study Date Date X-Sec. No.
Survey by FHB Notes CEM 10/14/53 Notes Chkd. Checked
Indexed Date Date Date

76L298 307 4-50

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5

cut in 40+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
34+00	N1 65R off	21	Y		36° 57		
		22	B/W	7 37	35° 30		
		23	R		33° 44		
		24	Y		31° 51		
		25	B/W	7 39	30° 46		
		26	R		29° 20		
		27	Y		27° 00		
		28	B/W	7 40	30° 34	*	
		29	R		30° 59	*	
		30	Y		28° 29		
		31	B/W	7 42	26° 10		
		32	R		22° 15		
		33	Y		20° 27		
		34	B/W	7 44	19° 09		
		35	R		18° 51		
		36	Y		18° 30		
		37	B/W	7 45	24° 02	*	

CUT-IN 40+00N

Profile Notes Red.____ Plotted____ Job No. 5912 Division No.____ F. B. 1017 PG. 23

No.____ Date____ Date____ Date____ Map No.____ Indexed____ Date____

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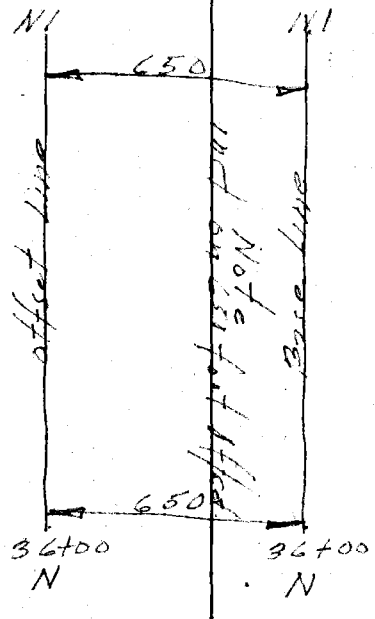
STATION ~~Inst. Sight~~ At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
36+00	N1 650 off	1	B/W	7 59	70° 14	
		2	R		68° 55	
		3			67° 48	
		4	B/W	8 02	66° 57	
		5	R		63° 50	
		6	Y		64° 43	
		7	B/W	8 04	6[illegible] 13	
		8	R		62° 4	
		9	Y		6[illegible] 8	
		10	B/W	8 06	59° 6	
		11	R		57° 9	
		12	Y		55° 7	
		13	B/W	8 08	54° 9	
		14	R		52° 4	
		15	Y		51° 0	
		16	B/W	8 10	49° 5	
		17	R		48° 2	
		18	Y		46° 2	
		19	B/W	8 12	44° 48	
		20	R		42° 19 *	

CUT-IN 42+00



F. B. 1888 Pg. 24
Survey of Base Erosion Studies
Survey by EHB
Indexed
Job No. 842 Division No.
Notes Red.
Date
Notes Chkd.
Date
Plotted
Date
Checked
Date
Profile
No.
X-Sec.
No.

76L298 307 4-50

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Inst. Sight
STATION On B. S. # Color F. S. Time Hor. Ang. BOAT Remarks 40+00 - N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		17.7 / 16.8	17.1	3.8	13.3	1101
22	B+W	7:36	16.8 / 15.8	16.1	3.8	12.3	1078
23	R		16.4 / 14.8	15.3	3.8	11.5	1050
24	Y		15.5 / 13.8	14.4	3.8	10.6	1023
25	B+W	7:38	14.9 / 13.6	14.0	3.8	10.2	1007
26	R		14.1 / 13.8	13.9	3.9	10.0	987
27	Y		13.4 / 12.0	12.5	3.9	8.6	956
28	B+W	7:40	14.5 / 13.5	13.8	3.9	9.9	1004
29	R		14.0 / 12.9	13.3	3.9	9.4	1010
30	Y		14.0 / 13.1	13.4	3.9	9.5	976
31	B+W	7:42	13.1 / 12.1	12.4	3.9	8.5	945
32	R		11.0 / 10.0	10.3	3.9	6.4	895
33	Y		10.3 / 9.2	9.6	3.9	5.7	874
34	B+W	7:44	9.9 / 8.7	9.1	3.9	5.2	858
35	R		9.0 / 8.4	8.6	3.9	4.7	855
36	Y		9.0 / 8.6	8.7	3.9	4.8	851
37	B+W	7:46	12.9 / 10.9	11.6	3.9	7.7	918
38	R						
39	Y						
40	B+W						

Profile Notes Red. CEM Plotted Job No. Division No.
Date 1-5-14 Date Map No. Indexed Date
F. B. 8 PG. 25

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	42+00 - N

#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks
1	B+W	7.59	32.0 31.6	31.3	4.0	27.3	2320
2	R		31.2 30.0	30.4	4.0	26.4	2208
3	Y		30.7 29.8	30.1	4.0	26.1	2120
4	B+W	8:02	29.8 28.9	29.2	4.0	25.2	2060
5	R		29.1 28.0	28.4	4.0	24.4	1994
6	Y		28.7 27.8	28.1	4.0	24.1	1911
7	B+W	8:04	28.2 27.0	27.4	4.0	23.4	1867
8	R		28.3 26.2	26.9	4.0	22.9	1790
9	Y		26.1 25.0	25.4	4.0	21.4	1718
10	B+W	8:07	25.5 24.8	25.0	4.0	21.0	1652
11	R		25.1 24.3	24.6	4.0	20.6	1579
12	Y		25.0 23.8	24.2	4.0	20.2	1527
13	B+W	8:09	24.3 23.1	23.5	4.0	19.5	1485
14	R		23.8 22.9	23.2 ~~22.2~~	4.0	19.2 ~~18.2~~	1439
15	Y		23.9 23.0	23.3	4.1	19.2	1395
16	B+W	8:11	23.0 22.1	22.4	4.1	18.3	1350
17	R		22.8 22.0	22.3	4.1	18.2	1317
18	Y		22.1 21.3	21.6	4.1	17.5	1283
19	B+W	8:13	22.1 21.0	21.4	4.1	17.3	1246
20	R		21.9 20.2	20.8	4.1	16.7	1206

F. B. 1888 PG. 26
Job No. Division No. Notes Red. CEM Date 12/17/53 Plotted Date No. Profile
Survey of Survey by Indexed Notes Date Notes Chkd. KK Date 1-5-54 Checked Date No. X-Sec.

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	42+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B & W	8:12	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B & W	8:14	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
42+00 N	36+00 N	28	B & W	8:16	90°00'		
		29	R		89°40'		
		30	Y		90°00'		
		31	B & W	8:18	90°00'		
		32	R		90°00'		
		33	Y		90°00'		
		34	B & W	8:19	90°00'		
		35	R		90°00'		
		36	Y		90°00'		
		37	B & W	8:20	90°00'		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____

No. ____ Date ____ Date ____ Survey of ____

Notes Chkd. ____ Checked ____ Survey By ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 PG. 27

76L298 307 10-51

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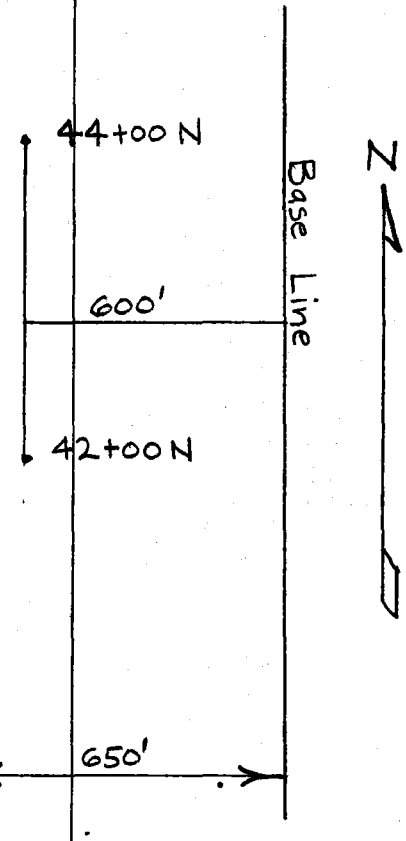
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	44+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
RANGE 44+00N (600' Offset)	42+00 N (600' Offset)	1	B&W	8:32	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	8:34	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	8:36	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	8:38	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	8:40	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	8:41	90°00'	Cut-in gun	
		17	R		90°00'	at 38+00 N	
		18	Y		90°00'		
		19	B&W	8:43	90°00'		
		20	R		90°00'		



F.B. 1888 PG. 28 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No. X-Sec.
Survey by FHB Notes CEM 10/14/53 Notes Chkd. Checked
Indexed Date Date Date No.

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7

CUT IN 42+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
36+00	N1 650	21	Y		41° 37		
		22	B+W	8 13	40° 11		
		23	R		40° 20 *		
		24	Y		38° 46		
		25	B+W	8 16	36° 19		
		26	R		35° 26		
		27	Y		33° 11		
		28	B+W	8 18	32° 27		
		29	R		31° 52		
		30	Y		30° 03		
		31	B+W	8 19	28° 27		
		32	R		26° 10		
		33	Y		23° 48		
		34	B+W	8 21	22° 04		
		35	R		21° 01		
		36	Y		18° 45		
		37	B+W	8 22	18° 18		

Profile Notes Red. ____ Plotted ____ Job No. 8416 Division No. ____ F. B. ____ Pg. 29

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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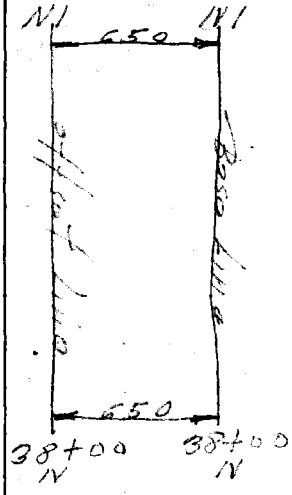
STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Her. Ang.	Remarks
38+00	N1 650 off	1	B/W	8 34	70° 30	
		2	R		68° 2	
		3	Y		66 3	
		4	B/W	8 36	64 9	
		5	R		61° 39	
		6	Y		59 34	
		7	B/W	8 38	57 19	
		8	R		54° 18	
		9	Y		52 36	
		10	B/W	8 40	50 36	
		11	R		48 34	
		12	Y		47° 31	
		13	B/W	8 41	45 19	
		14	R		43° 17	
		15	Y		41° 44	
		16	B/W	8 43	39° 59	
		17	R		37° 17	
		18	Y		36 27	
		19	B/W	8 45	34 43	
		20	R		33° 36	

CUT-IN 44+00 N

CUT IN 44+00

Not on 650 foot Offset



F. B. 1888 Pg. 50
Job No. 8712 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F.H.B. Notes Notes Chkd. Checked X-Sec.
Indexed Date 10/14/53 Date Date No.

74L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	42+00 -	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		21.8					
			19.5	20.3	4.1	16.2	1184	
22	B&W	8:13	20.2					
			19.1	19.5	4.1	15.4	1157	
23	R		20.3					
			19.4	19.7	4.1	15.6	1160	
24	Y		20.9					
			19.4	19.9	4.1	15.8	1132	
25	B&W	8:16	19.0					
			18.0	18.3	4.1	14.2	1101	
26	R		18.4					
			16.9	17.4	4.1	13.3	1077	
27	Y		17.4					
			15.6	16.2	4.1	12.1	1042	
28	B&W	8:18	16.4					
			15.2	15.6	4.1	11.5	1032	
29	R		16.8	15.3				
			14.6	~~15.1~~	4.1	~~11.0~~	1023	
30	Y		15.1					
			14.2	14.5	4.1	10.4	998	
31	B&W	8:20	18.0					
			13.5	14.0	4.1	9.9	975	
32	R		14.2					
			12.9	13.3	4.1	9.2	945	
33	Y		13.2					
			12.0	12.4	4.1	8.3	915	
34	B&W	8:21	12.1					
			11.0	11.4	4.1	7.3	893	
35	R		11.1					
			9.8	10.2	4.1	6.1	869	
36	Y		11.0					
			9.2	9.8	4.1	5.7	854	
37	B&W	8:22	11.0					
			8.2	9.1	4.1	5.0	848	
38	R							
39	Y							
40	B&W							

Profile Notes Red CEM Plotted ____ Job No. ____ Division No. ____
Notes Chkd. ____ Checked ____ Surveyed by ____
No. ____ Date 1-5-54 Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1888 Pg. 31

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	44+00 N

#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks
1	B+W	8:34	32.2 / 31.0	31.4	4.2	27.2	2344
2	R		30.4 / 29.1	29.5	4.2	25.3	2139
3	Y		29.1 / 27.9	28.3	4.2	24.1	2001
4	B+W	8:36	28.1 / 27.0	27.4	4.2	23.2	1888
5	R		27.1 / 25.9	26.3	4.2	22.1	1778
6	Y		26.1 / 25.0	25.4	4.2	21.2	1671
7	B+W	8:37	25.4 / 24.0	24.5	4.2	20.3	1585
8	R		24.8 / 23.4	23.9	4.2	19.7	1500
9	Y		24.5 / 23.0	23.5	4.2	19.3	1431
10	B+W	8:40	24.0 / 22.1	22.7	4.2	18.5	1380
11	R		23.6 / 21.9	22.5	4.2	18.3	1334
12	Y		23.0 / 22.0	22.3	4.3	18.0	1294
13	B+W	8:42	22.1 / 21.3	21.6	4.3	17.3	1256
14	R		22.0 / 21.0	21.3	4.3	17.0	1215
15	Y		21.9 / 20.5	21.0	4.3	16.7	1184
16	B+W	8:43	21.0 / 20.2	20.5	4.3	16.2	1152
17	R		20.4 / 19.8	19.5	4.3	15.2	1115
18	Y		19.0 / 18.0	18.3	4.3	14.0	1093
19	B+W	8:45	18.4 / 17.4	17.5	4.3	13.2	1065
20	R		18.0 / 16.0	16.7	4.3	12.4	1041

F. S. 1888 Pg. 32

Job No. ____ Division No. ____ Notes Red. CEM Date 12/17/53 Plotted ____ Date ____ Profile ____ No. ____

Survey of ____ Notes ____ Date ____ Notes Chkd. KK Date 1-5-50 Checked ____ Date ____ X-Sec. ____ No. ____

Survey by ____ Indexed ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	44+00 N

Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
44+00 N (600' offset)	42+00 N (600' offset)	21	Y		90°00'	
		22	B & W	8:44	90°00'	
		23	R		90°00'	
		24	Y		90°00'	
		25	B & W	8:46	90°00'	
		26	R		90°00'	
		27	Y		90°00'	
		28	B & W	8:48	90°00'	
		29	R		90°00'	
		30	Y		90°00'	
		31	B & W	8:50	90°00'	

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1888 Pg. 33

Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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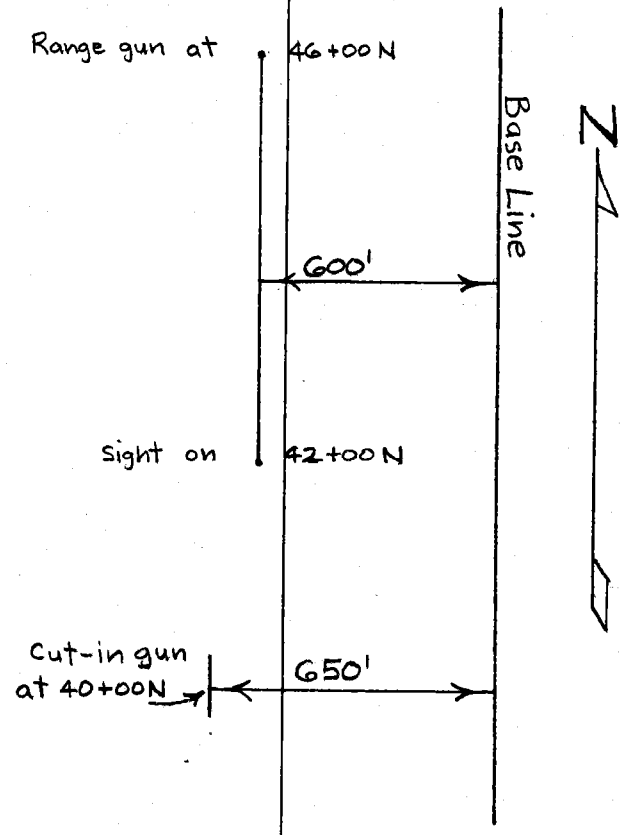
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	46+00 N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
RANGE 46+00 N (600' offset) / 42+00 N (600' offset)	1	B&W	9:02	90°00'		
	2	R		90°00'		
	3	Y		90°00'		
	4	B&W	9:05	90°00'		
	5	R		90°00'		
	6	Y		90°00'		
	7	B&W	9:07	90°00'		
	8	R		90°00'		
	9	Y		90°00'		
	10	B&W	9:08	90°00'		
	11	R		90°00'		
	12	Y		90°00'		
	13	B&W	9:10	90°00'		
	14	R		90°00'		
	15	Y		90°00'		
	16	B&W	9:12	90°00'		
	17	R		90°00'		
	18	Y		90°00'		
	19	B&W	9:13	90°00'		
	20	R		90°00'		



F.B. 1888 PG. 34 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile
Survey of Beach Erosion Study Date ____ Date ____ No. ____ X-Sec.
Survey by FHB Notes CEM 10/14/53 Notes Chkd. ____ Checked ____ No. ____
Indexed ____ Date ____ Date ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line.

9

CUT IN 44+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
38+00	N1 650	21	Y		31° 42		
		22	B+W	8 46	29° 59		
		23	R		28° 17		
		24	Y		26° 38		
		25	B+W	8 48	24° 40		
		26	R		22° 49		
		27	Y		20° 00		
		28	B+W	8 50	19° 19		
		29	R		18° 22		
		30	Y		16° 26		
		31	B+W	8 52	19° 41		

CUT IN 44+00

Profile Notes Red. ____ Plotted ____ Job No. 8417 Division No. ____ F. B. 1888 Pg. 35

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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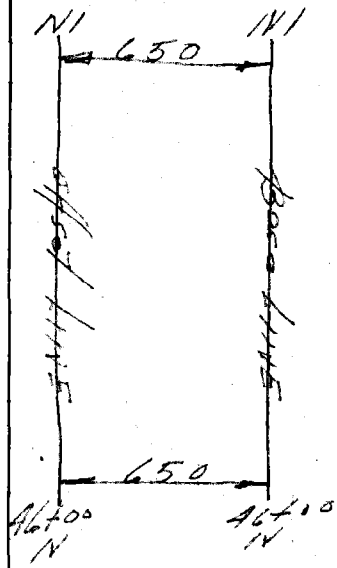
10
CUT IN 46+00

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
40+00	N1 650 OFF	1	Bhw	9 04	70° 35	
		2	R		69 [illegible]	
		3	Y		67 [illegible]	
		4	Bhw	9 05	65 [illegible]	
		5	R		65 36	
		6	Y		61° 18	
		7	Bhw	9 09	59° 03	
		8	R		56 59	
		9	Y		55 15	
		10	Bhw	9 10	52° 18	
		11	R		50° 35	
		12	Y		48° 7	
		13	Bhw	9 12	46° 8	
		14	R		44° 15	
		15	Y		42° 50	
		16	Bhw	9 13	41° 15	
		17	R		39° 59	
		18	Y		37° 45	
		19	Bhw	9 15	36° [illegible]	
		20	R		34 [illegible]	

CUT-IN 46+00 N

Note
Inst on 650 offset



F. B. 1888 Pg. 36
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F H B Notes US Notes Chkd. Checked X-Sec.
Indexed Date 10/14/53 Date Date No.

764298 307 4-50

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Boat	44+00 -
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21 Y		16.6 / 15.7	16.0	4.3	11.7	1020
22 B+W	8:46	16.1 / 14.9	15.3	4.3	11.0	996
23 R		15.5 / 13.9	14.4	4.3	10.1	973
24 Y		14.8 / 13.4	13.9	4.3	9.6	950
25 B+W	8:47	14.2 / 12.1	12.8	4.3	8.5	925
26 R		13.1 / 12.0	12.4	4.3	8.1	902
27 Y		11.9 / 10.9	11.2	4.3	6.9	868
28 B+W	8:49	11.8 / 9.3	10.1	4.3	5.8	860
29 R		10.0 / 9.0	9.3	4.3	5.0	849
30 Y		9.4 / 8.3	8.7	4.3	4.4	827
31 B+W	8:52	11.0 / 9.7	10.1	4.3	5.8	864
32 R						
33 Y						
34 B+W						
35 R						
36 Y						
37 B+W						
38 R						
39 Y						
40 B+W						

Profile Notes Red CEM Plotted ____ Job No. ____ Division No. ____

No. ____ Date ____ Checked ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1888 Pg. 37

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	46+00 N
Color Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks		
1 B&W	9:04	33.8 / 32.1	32.7	4.4	28.3	2351
2 R		31.8 / 30.4	30.9	4.4	26.5	2228
3 Y		30.1 / 29.1	29.4	4.4	25.0	2101
4 B&W	9:07	29.2 / 27.4	28.0	4.4	23.6	1975
5 R		28.1 / 27.3	27.6	4.4	23.2	1859
6 Y		27.3 / 26.1	26.5	4.4	22.1	1746
7 B&W	9:09	26.8 / 24.9	25.5	4.4	21.1	1650
8 R		25.8 / 24.0	24.6	4.4	20.2	1574
9 Y		25.0 / 24.0	24.3	4.4	19.9	1515
10 B&W	9:11	24.5 / 23.9	24.1	4.4	19.7	1440
11 R		24.0 / 23.1	23.4	4.5	18.9	1380
12 Y		23.0 / 22.0	22.3	4.5	17.8	1319
13 B&W	9:13	23.1 / 22.0	22.4	4.5	17.9	1274
14 R		22.5 / 21.6	21.9	4.5	17.4	1244
15 Y		23.7 / 20.9	21.8	4.5	17.3	1206
16 B&W	9.14	22.5 / 21.0	21.5	4.5	17.0	1176
17 R		21.8 / 20.4	20.9	4.5	16.4	1147
18 Y		20.7 / 19.8	20.1	4.5	15.6	1114
19 B&W	9:16	20.0 / 18.9	19.3	4.5	14.8	1085
20 R		18.6 / 18.0	18.2	4.5	13.7	1061

F. B. 1888 PG. 58

Job No. ____ Division No. ____ Notes Red. CEM Plotted ____ Profile ____
Survey of ____ Date 12/17/53 Date ____ No. ____
Survey by ____ Notes ____ Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date 10/14/53 Date 1-5-54 Date ____ No. ____

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	46+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
46+00 N (600' Offset)	42+00 N (600' Offset)	21	Y		90°00'		
		22	B&W	9:15	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B&W	9:16	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B&W	9:18	90°00'		
		29	R		90°00'		
		30	Y		90°00'		
		31	B&W	9:20	90°00'		
		32	R		90°00'		
		33	Y		90°00		
		34	B&W	9:21	90°00'		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1888 PG. 39

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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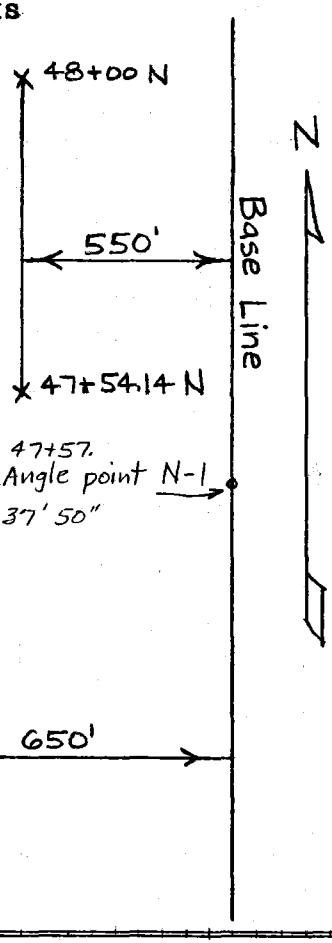
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	48+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
48+00 N (550' offset)	47+54.14 N (550' offset)	1	B&W	9:40	90°00'	Range gun at	48+00 N
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	9:43	90°00'		
		5	R		89°50'		550'
		6	Y		90°00'		
		7	B&W	9:45	90°00'		
		8	R		90°00'	Sight on	47+54.14 N
		9	Y		90°00'		
		10	B&W	9:46	90°00'	sta	47+57. Angle point N-1
		11	R		90°00'	angle	37' 50"
		12	Y		90°00'		
		13	B&W	9:48	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
			B&W	9:49	90°00'	Cut-in gun at 42+00N	650'
			R		90°00'		
			Y		90°00'		
			B&W	9:51	90°00'		
			R		90°00'		

RANGE 48+00 N



F.B. 1888 PG. 40 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of Beach Erosion Study Date ____ Date ____ No. ____
Survey by FHB Notes CEM 10/14/53 Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
10f00 / N1	21	Y		32° 36		
	22	B/W	9 16	30° 55		
	23	R		29° 17		
	24	Y		31° 34		
	25	B/W	9 18	30° 19		
	26	R		27° 57		
	27	Y		26° 03		
	28	B/W	9 19	24° 22		
	29	R		22° 00		
	30	Y		20° 55		
	31	B/W	9 21	19° 13		
	32	R		16° 39		
	33	Y		18° 27		
	34	B/W	9 23	14° 47		

Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. ____ Division No. ____ Survey of ____ Map No. ____ Indexed ____ Date ____

F. B. ____ Pg. 41

76L298 307 4-50

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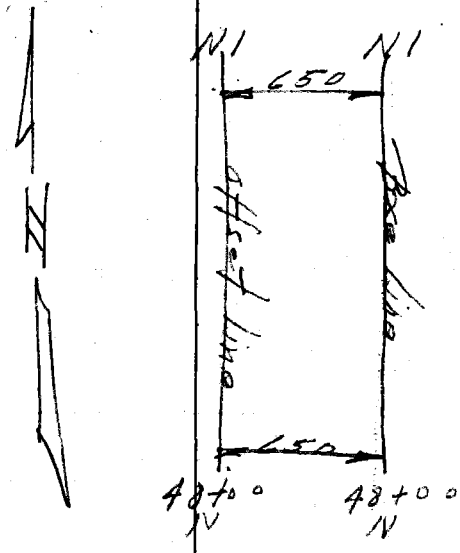
12

48+00

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
42+00	N1 650 off	1	B/W	9 42	68° 13	
		2	R		65° 17	
		3	Y		63° 24	
		4	B/W	9 45	61° 31	
		5	R		59° 40	
		6	Y		56° 39	
		7	B/W	9 46	53° 38	
		8	R		51° 40	
		9	Y		48° 52	
		10	B/W	9 48	46° 26	
		11	R		43° 44	
		12	Y		41° 32	
		13	B/W	9 50	39° 33	
		14	R		36° 48	
		15	Y		34° 54	
		16	B/W	9 51	32° 57	
		17	R		30° 12	
		18	Y		32° 52	
		19	B/W	9 53	30° 57	
		20	R		28° 58	

CUT-IN 48+00 N

Note
Inst on 650 out Offset



F. B. 1888 Pg. 42
Job No. 8712 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by FHB Notes JS Notes Chkd. Checked X-Sec.
Indexed Date 10/14/53 Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	46+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		18.4 / 17.5	17.8	4.5	13.3	1034
22	B+W	9:17	17.3 / 16.5	16.8	4.5	12.3	1009
23	R		16.5 / 15.1	15.6	4.5	11.1	986
24	Y		17.6 / 16.8	17.1	4.5	12.6	1018
25	B+W	9:18	17.1 / 16.0	16.4	4.5	11.9	1001
26	R		15.7 / 15.0	15.2	4.5	10.7	968
27	Y		15.6 / 14.0	14.6	4.5	10.1	943
28	B+W	9:20	14.9 / 13.1	13.7	4.5	9.2	922
29	R		13.4 / 12.0	12.5	4.5	8.0	892
30	Y		12.7 / 11.0	11.6	4.5	7.1	879
31	B+W	9:22	11.9 / 10.9	11.2	4.5	6.7	859
32	R		10.8 / 9.0	9.6	4.5	5.1	829
33	Y		11.1 / 10.2	10.5	4.5	6.0	850
34	B+W	9:24	10.1 / 7.6	8.4	4.5	3.9	808
35	R						
36	Y						
37	B+W						
38	R						
39	Y						
40	B+W						

BOAT 46+00 N

Profile Notes Red CEM Plotted Job No. Division No. F. B. 1888 PG. 43

No. Date 1-5-54 Date Map No. Indexed Date

76L29B 307 4-50

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F. B. 1888 Pg. 44 | Job No. | Division No. | Notes Red. CEM | Plotted | Profile
Survey of | Date 12/17/53 | Date | No.
Survey by | Notes | Notes Chkd. KK | Checked | X-Sec.
Indexed | Date | Date 1-5-54 | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		48+00 N
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1 B+W	9:42	31.3 30.7 29.9	30.9	4.7	26.2	2195	
2 R		28.9 28.1	29.2	4.7	24.5	2020	
3 Y		27.6 27.4	27.8	4.7	23.1	1875	
4 B+W	9:44	26.5 26.7	26.8	4.7	22.1	1780	
5 R		25.6 26.0	26.0	4.7	21.3	1695	
6 Y		24.9 25.0	25.3	4.7	20.6	1579	
7 B+W	9:46	23.8 24.7	24.2	4.7	19.5	1478	
8 R		23.1 23.9	23.6	4.7	18.9	1419	
9 Y		23.0 24.1	23.3	4.7	18.6	1346	
10 B+W	9:48	22.4 22.6	~~22.6~~ 23.0	4.7	~~17.9~~ 18.3	1289	
11 R		22.0 22.9	22.2	4.7	17.5	1231	
12 Y		21.2 22.0	21.8	4.7	17.1	1188	
13 B+W	9:50	21.0 21.3	21.3	4.7	16.6	1150	
14 R		20.6 20.8	20.8	4.7	16.1	1104	
15 Y		19.6 20.0	20.0	4.7	15.3	1072	
16 B+W	9:51	19.9 18.1	19.3	4.7	14.6	1042	
17 R		17.1 19.1	17.4	4.7	12.7	1002	
18 Y		18.0 17.9	18.4?	4.7	13.7 ?	1041	
19 B+W	9:53	17.0 17.3	17.3	4.7	12.6	1013	
20 R		16.5	17.1	4.7	12.4	985	

76L298 307 10-51

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	48+00 N
	#	Color	Time	Hor. Angle		
	21	Y		90°00'		
	22	B&W	9:52	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	B&W	9:54	90°00'		
	26	R		90°00'		
	27	Y		90°00'		
	28	B&W	9:55	90°00'		
	29	R		90°00'		

48+00 N (550' offset)

47+54.14 N (550' offset)

RANGE 48+00 N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____

No. ____ Date ____ Date ____ Survey of ____

Notes Chkd ____ Checked ____ Survey by ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 PG. 95

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1888 PG. 46 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Study | Notes CEM 10/14/53 | Date | Date | No.
Survey by FHB | Notes Chkd. | Checked | X-Sec.
Indexed | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 50+00 N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	1	B&W	10:11	90°00'	Range gun at 50+00N
	2	R		89°50'	
	3	Y		90°00'	
	4	B&W	10:14	90°00'	
	5	R		90°00'	550'
	6	Y		90°00'	
	7	B&W	10:16	90°00'	
	8	R		90°00'	Sight on 47+54.14N
	9	Y		90°00'	
	10	B&W	10:18	90°00'	angle point at 47+57.17 angle is 37°50"
	11	R		90°00'	
	12	Y		90°00'	
	13	B&W	10:19	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	10:20	90°00'	Cut-in gun at 44+00N 600'
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	10:22	90°00'	
	20	R		90°00'	

50+00N (550' Offset)

47+54.14N (550' Offset)

RANGE 50+00N

N

76L298 307 4-50

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Do not extend notes this side of this line.

13

CUTIN 48+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
42+00	N1	21	Y		27° 12		
		22	B/W	9 54	24° 57		
		23	R		23° 10		
		24	Y		21° 38		
		25	B/W	9 56	19° 16		
		26	R		20° 02		
		27	Y		16° 16		
		28	B/W	9 57	14° 00		
		29	R		13° 00		

Profile Notes Red. ____ Plotted ____ Job No. 8712 Division No. ____ F. B. 1858 Pg. 47

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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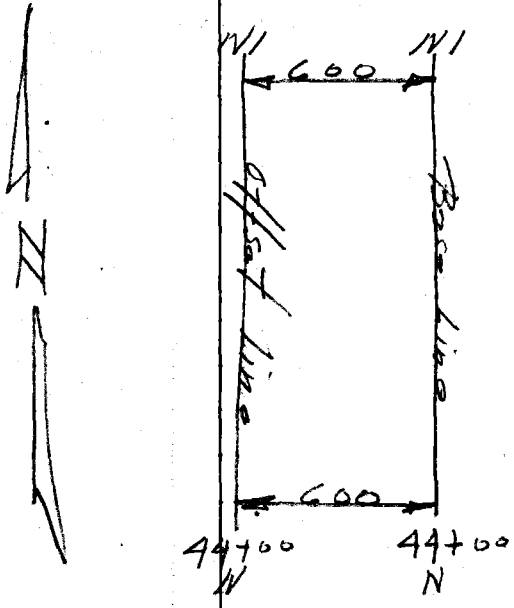
Do not extend notes this side of this line.

14

CUT IN 50+00

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
44+00	N1 600 off	1	B/W	10 13	67° 59	Note Inst on 600 foot offset.
CUT-IN 50+00 N		* 2	R		65° 23	
		3	Y		62° 54	
		4	B/W	10 15	60° 39	
		5	R		58° 19	
		6	Y		56° 04	
		7	B/W	10 18	53° 00	
		8	R		50° 59	
		9	Y		49° 18	
		10	B/W	10 19	47° 28	
		11	R		46° 07	
		12	Y		44° 46	
		13	B/W	10 21	42° 58	
		14	R		41° 46	
		15	Y		40° 01	
		16	B/W	10 22	38° 54	
		17	R		37° 38	
		18	Y		37° 03	
		19	B/W	10 23	35° 43	
		20	R		33° 48	



F. B. 1888 Pg. 48
Job No. 3412 Division No. Notes Red. Plotted Profile
Survey of Bench Erosion Studies Date Date No.
Survey by FHB Notes JS Notes Chkd. Checked X-Sec.
Indexed Date 10/14/53 Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		48+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		17.0 15.6	16.1	4.7	11.4	961	
22	B&W	9:54	15.4 14.6	14.9	4.7	10.2	931	
23	R		15.0 13.6	14.1	4.7	9.4	909	
24	Y		14.2 13.6	13.4	4.7	8.7	890	
25	B&W	9:56	13.2 11.0	11.4	4.7	6.7	861	
26	R		12.7 12.0	12.2	4.7	7.5	870	
27	Y		11.9 10.0	10.6	4.7	5.9	826	
28	B&W	9:57	10.1 8.6	9.1	4.7	4.4	801	
29	R		8.8 7.5	7.9	4.7	3.2	790	
30	Y							
31	B&W							
32	R							
33	Y							
34	B&W							
35	R							
36	Y							
37	B&W							
38	R							
39	Y							
40	B&W							

BOAT [illegible]

Profile No. ____ Date ____ Notes Red CEM Plotted ____ Job No. ____ Division No. ____ F. B. 1888 Pg. 49

Date 1-5-54 Date ____ Map No. ____ Indexed ____ Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	BAT	50+00 N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	10:13	30.8 / 29.9	30.2	4.8	25.4	2130
2	R		29.6 / 28.1	28.6	4.8	23.8	1946
3	Y		28.0 / 26.9	27.3	4.8	22.5	1804
4	B+W	10.15	27.0 / 25.5	26.0	4.8	21.2	1694
5	R		26.2 / 25.0	25.4	4.8	20.6	1591
6	Y		25.2 / 24.6	24.8	4.8	20.0	1508
7	B+W	10:17	24.6 / 23.5	23.9	4.9	19.0	1411
8	R		24.1 / 23.0	23.4	4.9	18.5	1353
9	Y		23.0 / 23.0	23.2	4.9	18.3	1309
10	B+W	10:19	23.3 / 22.5	22.8	4.9	17.9	1265
11	R		23.1 / 22.0	22.4	4.9	17.5	1233
12	Y		23.1 / 22.0	22.4	4.9	17.5	1205
13	B+W	10:21	22.3 / 21.3	21.7	4.9	16.8	1167
14	R		22.4 / 21.1	21.5	4.9	16.6	1144
15	Y		21.7 / 20.9	21.2	4.9	16.3	1111
16	B+W	10.23	21.3 / 20.5	20.8	4.9	15.9	1091
17	R		21.0 / 19.9	20.3	4.9	15.4	1070
18	Y		20.6 / 19.9	20.1	4.9	15.2	1060
19	B+W	10:24	19.7 / 19.0	19.2	4.9	14.3	1037
20	R		19.0 / 18.0	18.3	4.9	13.4	1007

F. B. Pg. 50

Job No. Division No. Notes Red CEM Plotted Profile

Survey of Notes Date 12/17/53 Date No. X-Sec.

Survey by 10/14/53 Notes Chkd. KK Checked

Indexed Date 1-5-54 Date No.

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	50+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
50+00 N (550' offset)	47+54.14 N (550' offset)	21	Y		90°00'		
		22	B & W	10:23	90°00'		
		23	R		89°50'		
		24	Y		90°00'		
		25	B & W	10:26	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B & W	10:27	90°00'		
		29	R		90°00'		
		30	Y		90°00'		
		31	B & W	10:28	90°00'		
		32	R		90°00'		
		33	Y		90°00'		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1888 PG. 51

No. ____ Date ____ Date ____ Survey of [illegible]

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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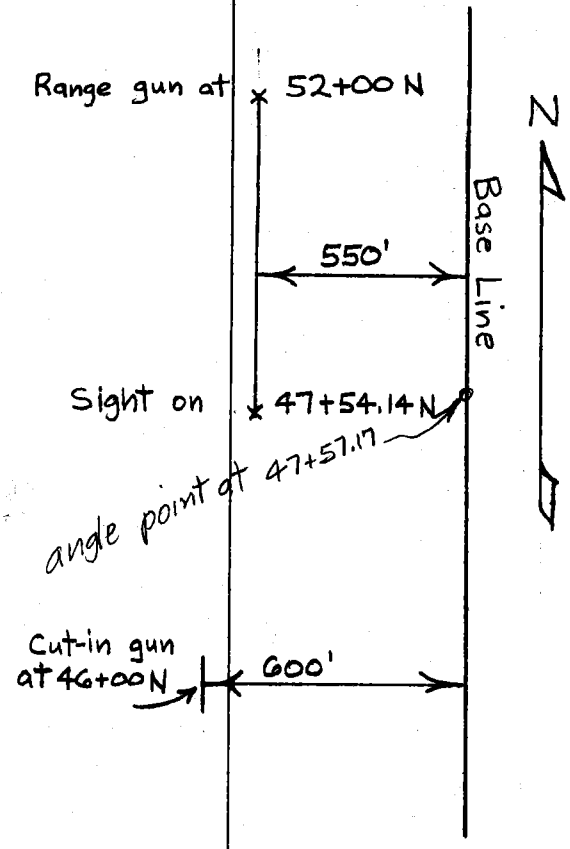
Do not extend notes this side of this line.

F.B. 1888 Pg. 52 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ No. ____ Profile
Survey of Beach Erosion Study Date ____ Date ____ No. ____ X-Sec.
Survey by EHB Notes CEM 10/14/53 Notes Chkd. ____ Checked ____
Indexed ____ Date ____ Date ____ Date ____

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	52+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
52+00 N (550' offset)	47+54.14 N (550' offset)	1	B&W	10:41	90°00'	
		2	R		90°00'	
		3	Y		90°00'	
		4	B&W	10:43	90°00'	
		5	R		90°00'	
		6	Y		90°00'	
		7	B&W	10:45	90°00'	
		8	R		90°00'	
		9	Y		90°00'	
		10	B&W	10:46	90°00'	
		11	R		90°00'	
		12	Y		90°00'	
		13	B&W	10:48	90°00'	
		14	R		90°00'	
		15	Y		90°00'	
		16	B&W	10:49	90°00'	
		17	R		90°00'	
		18	Y		90°00'	
		19	B&W	10:51	90°00'	
		20	R		90°00'	

RANGE 52+00 N



76L298 307 4-50

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15
CUT IN 50+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
44+00	N1 690 off	21	Y		31° 57		
		22	B/W	1025	31° 35		
		* 23	R		29° 34		
		24	Y		26° 27		
		25	B/W	1027	23° 36		
		26	R		22° 57		
		27	Y		20° 07		
		28	B/W	1028	19° 41		
		29	R		19° 29		
		30	Y		18° 41		
		31	B/W	1029	17° 05		
		32	R		15° 50		
		33	Y		18° 41	*	

CUT-IN 50+00 N

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. [illegible] Pg. 53
No. ____ Date ____ Date ____ Survey of ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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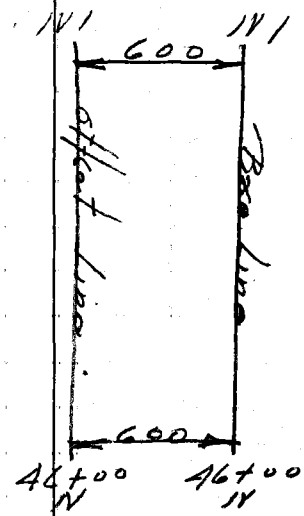
16

CUT IN 52+00

STATION ~~Inst. Sight~~ At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
46+00	N1 600 off	1	B/W	10 43	69° 38	
		2	R		67° 36	Note!
		3	Y		65° 50	Inst on 600 foot Offset
		4	B/W	10 45	63° 50	
		5	R		61° 54	
		6	Y		59° 38	
		7	B/W	10 46	56° 45	
		8	R		54° 22	
		9	Y		51° 56	
		10	B/W	10 48	49° 25	
		11	R		48° 33	
		12	Y		46° 32	
		13	B/W	10 49	44° 37	
		14	R		42° 24	
		15	Y		40° 09	
		16	B/W	10 51	37° 48	
		17	R		35° 57	
		18	Y		33° 48	
		19	B/W	10 53	32° 17	
		20	R		31° 06	

CUT-IN 52+00



F. B. 1888 Pg. 54
Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of Beach Erosion Studies Date ____ Date ____ No. ____
Survey by FHB Notes JS Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date 10/14/53 Date ____ Date ____ No. ____

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	50+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		18.1 16.6	17.1	4.9	12.2	979
22	B+W	10:25	17.9 16.5	17.0	4.9	12.1	974
23	R		16.9 15.6	16.0	4.9	11.1	944
24	Y		15.7 14.4	14.8	4.9	9.9	903
25	B+W	10:28	14.5 13.2	13.6	4.9	8.7	866
26	R		13.3 12.1	12.5	4.9	7.6	858
27	Y		12.0 10.8	11.2	4.9	6.3	824
28	B+W	10:29	11.3 10.5	10.8	4.9	5.9	818
29	R		11.4 10.5	10.8	4.9	5.9	816
30	Y		11.3 10.0	10.4	4.9	5.5	806
31	B+W	10:30	9.3 8.1	8.5	4.9	3.6	788
32	R		8.1 7.0	7.4	4.9	2.5	773
33	Y		10.7 9.7	10.0	4.9	5.1	806
34	B+W						
35	R						
36	Y						
37	B+W						
38	R						
39	Y						
40	B+W						

BOAT 50+00 N

Profile Notes Red CEM Plotted Job No. Division No.
No. Date 12/11/58 Date Survey of
No. Date 1-5-54 Date Map No. Indexed Date
F. B. 1888 Pg. 55

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STATION	B. S.	H. I.	F. S.	ELEV.	Boat	52+00 N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	10:43	32.1 / 31.9	32.0	5.0	27.0	2269
2	R		31.0 / 29.9	30.3	5.0	25.3	2100
3	Y		30.1 / 28.7	29.2	5.0	24.2	1976
4	B+W	10:45	28.9 / 27.0	27.6	5.0	22.6	1855
5	R		27.9 / 26.5	27.0	5.0	22.0	1753
6	Y		27.1 / 25.5	26.0	5.0	21.0	1649
7	B+W	10:47	26.0 / 24.7	25.1	5.0	20.1	1536
8	R		25.2 / 24.6	24.8	5.0	19.8	1455
9	Y		24.9 / 23.5	24.0	5.0	19.0	1382
10	B+W	10:48	23.7 / 23.0	23.2	5.0	18.2	1315
11	R		24.1 / 22.9	23.3	5.0	18.3	1293
12	Y		22.9 / 22.5	23.0	5.0	18.0	1244
13	B+W	10:50	23.0 / 21.9	22.3	5.0	17.3	1204
14	R		23.0 / 21.9	22.3	5.0	17.3	1158
15	Y		22.0 / 21.0	21.3	5.0	16.3	1115
16	B+W	10:51	21.7 / 20.6	21.0	5.0	16.0	1074
17	R		21.1 / 19.9	20.3	5.0	15.3	1043
18	Y		18.9 / 18.1	18.4	5.0	13.4	1009
19	B+W	10:53	18.9 / 17.0	17.6	5.0	12.6	986
20	R		18.4 / 17.0	17.5	5.0	12.5	969

Profile ____ No. ____ X-Sec. ____ No. ____

Job No. ____ Division No. ____ Notes Red. CEM Plotted ____

Date 12/17/53 Date ____

Notes ____ Notes Chkd. KK Checked ____

Date 10/14/53 Date 1-5-54 Date ____

Survey of ____

Survey by ____

Indexed ____

F. B. 1899 Pg. 38

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	52+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90° 00'		
	22	B & W	10:52	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	B & W	10:54	90°00'		
	26	R		90°00'		
	27	Y		90°00'		
	28	B & W	10:57	90°00'		
	29	R		90°00'		
	30	Y		90°00'		
	31	B & W	10:58	90°00'		
52+00 N (550' offset)	47+54.14 N (550' offset)					

RANGE 52+00 N

Profile No.____ Notes Red____ Date____ Plotted____ Date____ Job No. 8412 Division No.____ Survey of [illegible]

No.____ Date____ Date____ Map No.____ Indexed____ Date____

F.B. 1888 Pg. 57

76L298 307 10-51

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ENGINEERING BLDG.

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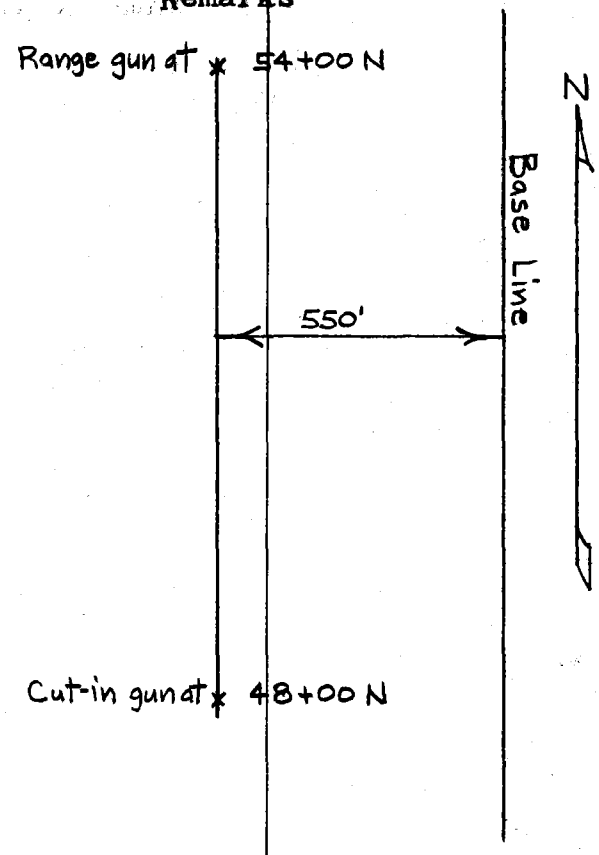
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	54+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
54+00 N (550' Offset)	48+00 N (550' Offset)	1	B&W	11:12	90°00'	Range gun at 54+00 N	
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	11:14	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	11:16	90°00'	550'	
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	11:18	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	11:19	90°00'		
		14	R		90°00'		
		15	Y		90°00'	Cut-in gun at 48+00 N	
		16	B&W	11:20	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	11:21	90°00'		
		20	R		90°00'		

RANGE 54+00 N



F.B. 1888 PG. 58 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No. X-Sec.
Survey by FHB Notes CEM 10/14/53 Notes Chkd. Checked
Indexed Date Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

17

CUT IN 52+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
46+00	N1 600 off	21	Y		29° 37		
		22	B+W	10 54	28° 17		
		23	R		26° 24		
		24	Y		25° 05		
		25	B+W	10 55	22° 27		
		26	R		20° 19		
		27	Y		18° 00		
		28	B+W	10 58	20° 46		
		29	R		19° 22		
		30	Y		16° 43		
		31	B+W	11 00	15° 30		

CUT IN 52+00 N

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. Pg. 59

No. Date Date Survey of

No. Date Date Map No. Indexed Date

76L298 307 4-50

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18

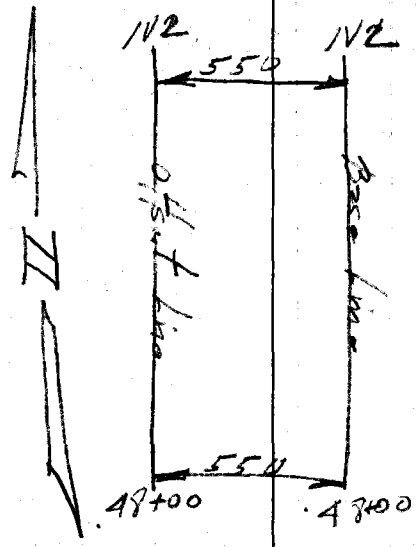
CUT IN 54+00

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.
48+00	N2 550 off	1	B/W	11 14	68° 27
		2	R		65° 33
		3	Y		63° 40
		4	B/W	11 16	61° 06
		5	R		58° 39
		6	Y		56° 32
		7	B/W	11 18	53° 20
		8	R		49° 48
		9	Y		46° 34
		10	B/W	11 19	43° 35
		11	R		41° 20
		12	Y		38° 23
		13	B/W	11 21	37° 19
		14	R		35° 57
		15	Y		34° 11
		16	B/W	11 22	33° 05
		17	R		31° 42
		18	Y		30° 39
		19	B/W	11 23	29° 48
		20	R		28° 15

CUT-IN 54+00N

Remarks

Note
Inst on 550 offset



F. B. 1888 PG. 60
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by EHB Notes IS Notes Chkd. Checked
Indexed Date 10/14/53 Date Date No.

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	52+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		17.0 15.8	16.2	5.0	11.2	948
22	B&W	10:56	16.5 15.1	15.6	5.0	10.6	930
23	R		15.5 15.0	15.2	5.0	10.2	904
24	Y		15.2 14.0	14.4	5.1	9.3	887
25	B&W	10:58	14.2 12.5	13.1	5.1	8.0	854
26	R		12.3 11.7	11.9	5.1	6.8	828
27	Y		10.9 9.5	10.0	5.1	4.9	800
28	B&W	10.59	13.0 11.5	12.0	5.1	6.9	833
29	R		12.0 10.5	11.0	5.1	5.9	816
30	Y		9.8 8.5	8.9	5.1	3.8	785
31	B&W	11.00	8.0 7.0	7.3	5.1	2.2	772
32	R						
33	Y						
34	B&W						
35	R						
36	Y						
37	B&W						
38	R						
39	Y						
40	B&W						

Profile No. ____ Notes Red CEM Plotted ____ Job No. ____ Division No. ____ F. B. 1888 Pg. 61

Date 1-5-54 Date ____ Survey of ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	54+00-N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1.	B&W	11.14	31.4 / 29.[illegible]	30.4?	5.1	25.3 ?	2070
2.	R		29.3 / 27.9	28.4	5.1	23.3	1871
3.	Y		28.2 / 27.0	27.4	5.1	22.3	1762
4.	B&W	11:16	27.9 / 25.9	26.3	5.1	21.2	1639
5.	R		26.0 / 24.6	25.1	5.1	20.0	1535
6	Y		25.5 / 24.6	24.5	5.1	19.4	1456
7	B&W	11:18	24.5 / 23.1	23.6	5.1	18.5	1355
8	R		23.9 / 22.8	23.2	5.1	18.1	1260
9	Y		23.7 / 23.0	23.2	5.1	18.1	1184
10	B&W	11:20	22.2 / 21.0	21.4	5.1	16.3	1120
11	R		22.0 / 20.0	20.7	5.1	15.6	1077
12	Y		20.3 / 19.0	19.4	5.1	14.3	1025
13	B&W	11:21	19.1 / 17.9	18.3	5.1	13.2	1007
14	R		18.7 / 17.1	17.6	5.1	12.5	985
15	Y		17.2 / 16.3	16.6	5.1	11.5	957
16	B&W	11.23	16.2 / 15.2	15.5	5.1	10.4	941
17	R		15.2 / 14.6	14.8	5.1	9.7	920
18	Y		16.0 / 15.0	15.3	5.1	10.2	906
19	B&W		15.6 / 14.0	14.5	5.1	9.4	894
20	R		14.7 / 13.0	13.6	5.1	8.5	872

F. B. 1888 Pg. 62
Job No. ____ Division No. ____ Notes Red. CEM Date 12/17/53 Plotted ____ Date ____ Profile ____ No. ____
Survey of ____ Notes ____ Date 10/14/53 Notes Chkd. KK Date 1-5-54 Checked ____ Date ____ X-Sec. ____ No. ____
Survey by ____ Indexed ____

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	54+00 N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
54+00 N (550' Offset) / 48+00 N (550' Offset)	21	Y		90°00'		
	22	B & W	11:23	90°00'		
	23	R		90°00'		
	24	Y		90°00'		
	25	B & W	11:24	90°00'		
	26	R		90°00'		
	27	Y		90°00'		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1888 Pg. 63

No. ____ Date ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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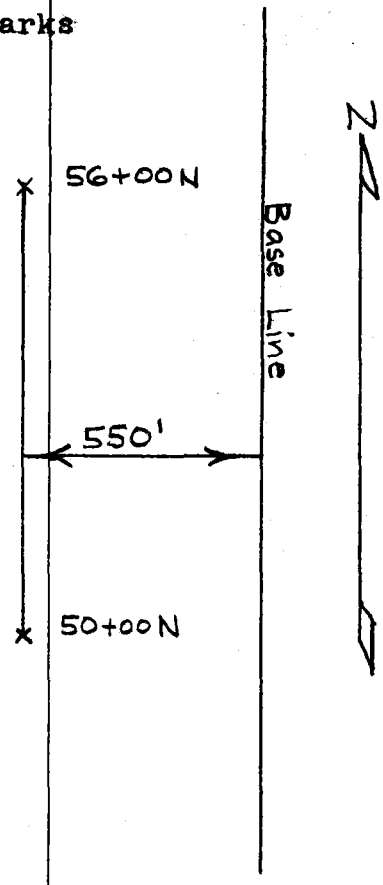
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	56+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
56+00 N (550' Offset)	50+00 N (550' offset) RANGE 56+00 N	1	B & W	11:37	90°00'		
		2	R		90°00'		
		3	Y		90°00'	Range gun at	56+00 N
		4	B & W	11:39	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B & W	11:41	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B & W	11:42	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B & W	11:44	90°00'	Cut-in gun at	50+00 N
		14	R		90°00'		
		15	Y		90°00'		
		16	B & W	11:45	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B & W	11:47	90°00'		
		20	R		90°00'		



F.B. 1888 PG. 62 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No. X-Sec.
Survey by FHB Notes CEM 10/14/53 Notes Chkd. Checked
Indexed Date Date Date No.

76L298 307 4-50

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19

CUTIN 5440

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
48+00	N2	21	Y		26°47		
		22	B&W	11 24	24°07		
		23	R		24°07		
		24	Y		22°12		
		25	B&W	11 26	21°48		
		26	R		22°19	*	
		27	Y		25 07	*	

CUTIN 5440

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. [illegible] Pg. 65

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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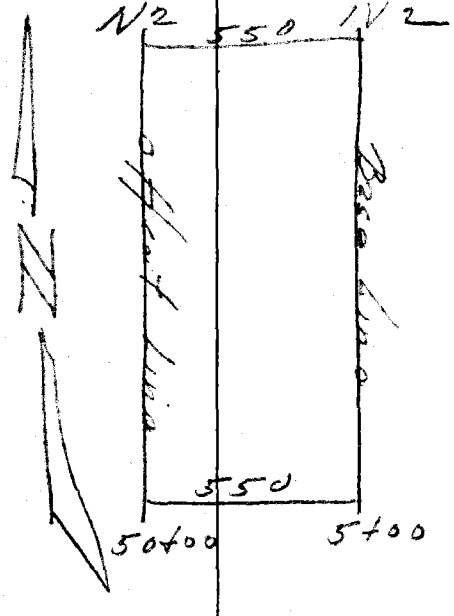
20

cut in 56+00

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
50+00	N2 550 off	1	B/W	11 39	69 [illegible]	Note Inst on 550 Offset
		2	R		67 [illegible]	
		3	Y		65° [illegible]5	
		4	B/W	11 41	63 [illegible]5	
		5	R		60 [illegible]7	
		6	Y		58° [illegible]9	
		7	B/W	11 42	56 [illegible]	
		8	R		54 [illegible]4	
		9	Y		52° [illegible]3	
		10	B/W	11 44	49 [illegible]7	
		11	R		47 [illegible]2	
		12	Y		44° [illegible]5	
		13	B/W	11 46	42° [illegible]8	
		14	R		40° [illegible]1	
		15	Y		37 [illegible]5	
		16	B/W	11 47	34° [illegible]8	
		17	R		35° [illegible]5	
		18	Y		32° [illegible]8	
		19	B/W	11 49	30 [illegible]9	
		20	R		28° [illegible]6	

CUT-IN 56+00



F. B. 1888 Pg. 66
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Bazah Erosion Studies Date Date No. X-Sec.
Survey by FHB Notes JS Notes Chkd. Checked
Indexed Date 10/14/53 Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Boat	54+00
# Color	Time	Head Depth	Bottom	Tide	Adj. Depth	Remarks
		13.3				
21 Y		12.2	12.6	5.1	7.5	853
22 B+W	11 25	11.1 / 10.2	10.5	5.1	5.4	819
23 R		11.8 / 10.0	10.6	5.1	5.5	819
24 Y		10.7 / 8.5	9.2	5.1	4.1	795
25 B+W	11.27	10.0 / 9.0	9.3	5.1	4.2	790
26 R		10.5 / 8.8	9.4	5.1	4.3	796
27 Y		12.7 / 10.8	11.4	5.1	6.3	831
28 B+W						
29 R						
30 Y						
31 B+W						
32 R						
33 Y						
34 B+W						
35 R						
36 Y						
37 B+W						
38 R						
39 Y						
40 B+W						

Profile Notes Red CEM Plotted _____ Job No. _____ Division No. _____ F. B. 1887 Pg. 67

No. _____ Date 1-5-54 Date _____ Map No. _____ Indexed _____ Date _____

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Boat	56+00-N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj.	Depth	Remarks
1	B&W	11:37	31.9 / 30.4	30.9		5.2	25.7	2171
2	R		30.7 / 29.8	30.1		5.2	24.9	1992
3	Y		29.0 / 27.9	28.3		5.2	23.1	1871
4	B&W	11:40	27.8 / 26.5	26.9		5.2	21.7	1732
5	R		27.0 / 26.0	26.3		5.2	21.1	1622
6	Y		25.9 / 24.9	25.2		5.2	20.0	1530
7	B&W	11:42	25.8 / 24.1	24.7		5.2	19.5	1445
8	R		24.4 / 23.1	23.5		5.2	18.3	1384
9	Y		24.2 / 23.3	23.6		5.2	18.4	1320
10	B&W		24.0 / 23.0	23.3		5.2	18.1	1250
11	R		23.3 / 23.0	23.1		5.2	17.9	1214
12	Y		23.1 / 21.9	22.3		5.2	17.1	1149
13	B&W	11:45	22.8 / 21.0	21.6		5.2	16.4	1100
14	R		21.3 / 20.2	20.6		5.2	15.4	1056
15	Y		19.7 / 18.8	19.1		5.2	13.9	1017
16	B&W	11:47	18.2 / 17.0	17.4		5.2	12.2	969
17	R		18.2 / 18.0	18.4		5.2	13.2	984
18	Y		16.8 / 16.0	16.3		5.2	11.1	934
19	B&W	11:49	15.4 / 15.5	15.8		5.2	10.6	910
20	R		14.9 / 14.0	14.3		5.2	9.1	892

Profile ____ No. ____ X-Sec. ____ No. ____

Division No. ____ Notes Red. CEM Plotted ____

Date 12/17/53 Date ____

Job No. ____ Notes ____ Notes Chkd. FC Checked ____

Date 10/14/53 Date 1-5-54 Date ____

F. B. 1888 Pg. 68

Survey of ____

Survey by ____

Indexed ____

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	56+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B & W	11:48	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B & W	11:49	90°00'		
		26	R		90°00'		
56+00N (550' Offset)	50+00N (550' Offset)						

RANGE 56+00N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1888 Pg. 69

No. ____ Date ____ Date ____ Survey of [illegible]

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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F.B. 1888 PG. 70 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Study | Notes CEM 10/14/53 | Date | Date | No. | X-Sec.
Survey by FHB | Notes Chkd. | Checked | No.
Indexed | Date | Date | Date

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 58 +00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
58 +00 N (550' offset) 52 +00 N (550' offset) RANGE 58+00 N	1	B&W	12:00	90°00'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	12:03	90°00'	Range gun at 58 +00 N
	5	R		90°00'	
	6	Y		90°00'	
	7	B&W	12:04	90°00'	
	8	R		90°00	
	9	Y		90°00'	550'
	10	B&W	12:06	90°00'	
	11	R		90°00'	
	12	Y		90°00'	Cut-in gun at 52+00 N
	13	B&W	12:07	90°00	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	12:09	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	12:10	90°00'	
	20	R		90°00'	

76L298 307 4-50

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21
cut in 56+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
50+00	N2 550	21	Y		26° 39		
		22	B+W	11 50	25° 26		
		23	R		23° 45		
		24	Y		22° 29		
		25	B+W	11 51	21° 03		
		26	R		21° 57		

Profile No. ____ Date ____ Notes Red. ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of ____ Map No. ____ Indexed ____ Date ____ F. B. 1888 Pg. 71

76L298 307 4-50

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22

58+00

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
52+00	N2 550 off	1	B/W	12 02	70° 17	Note
		2	R		67° 52	Inst on 550 foot offset
		3	Y		65° 27	
		4	B/W	12 04	62° 52	
		5	R		60° 01	
		6	Y		57° 21	
		7	B/W	12 06	54° 16	
		8	R		51° 55	
		9	Y		49° 43	
		10	B/W	12 07	47° 26	
		11	R		45° 07	
		12	Y		42° 32	
		13	B/W	12 09	40° 01	
		14	R		38° 09	
		15	Y		35° 43	
		16	B/W	12 10	33° 20	
		17	R		30° 46	
		18	Y		31° 36	
		19	B/W	12 11	30° 36	
		20	R		29° 47	

CUT-IN 58+00N

F. B. 1888 Pg. 72
Job No. 8412 Division No. 1 Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by FHB Notes JS Notes Chkd. Checked X-Sec.
Indexed Date 10/14/53 Date Date No.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	56+00 N
#	Color	Time	Meas. Depth	Bottom Tide		Adj. Depth	Remarks
21	Y		14.2 12.9	13.3	5.2	8.1	851
22	B+W	11.50	11.7 10.7	11.0	5.2	5.8	835
23	R		11.5 10.6	10.9	5.2	5.7	814
24	Y		10.5 9.6	9.9	5.2	4.7	798
25	B+W	11.52	9.0 8.0	8.3	5.2	3.1	781
26	R		10.8 9.9	10.2	5.2	5.0	792
27	Y						
28	B+W						
29	R						
30	Y						
31	B+W						
32	R						
33	Y						
34	B+W						
35	R						
36	Y						
37	B+W						
38	R						
39	Y						
40	B+W						

BOAT 56+00 N

Profile Notes Red. CEM Plotted Job No. Division No. F. B. 1888 Pg. 73

No. Date 12/11/53 Date Survey of

No. Date 1-5-54 Date Map No. Indexed Date

76L298 307 4-50

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	58+00 W

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	12:02	32.8 31.7	32.0	5.2	26.8	2222
2	R		31.0 29.2	29.8	5.2	24.6	2023
3	Y		29.0 27.5	28.0	5.2	22.8	1863
4	B+W	12:04	28.3 27.1	27.5	5.2	22.3	1720
5	R		26.8 25.9	26.2	5.2	21.0	1590
6	Y		25.8 25.0	25.3	5.2	20.1	1486
7	B+W	12:06	25.5 23.9	24.4	5.2	19.2	1384
8	R		24.8 22.9	23.5	5.2	18.3	1315
9	Y		24.1 22.9	23.3	5.2	18.1	1258
10	B+W	12:07	24.2 22.4	23.0	5.2	17.8	1204
11	R		23.1 21.8	22.2	5.2	17.0	1152
12	Y		22.7 21.9	22.2	5.2	17.0	1100
13	B+W	12:09	21.6 20.0	20.5	5.2	15.3	1054
14	R		20.8 19.1	19.7	5.2	14.5	1021
15	Y		19.3 18.0	18.4	5.2	13.2	981
16	B+W	12:11	17.8 17.0	17.3	5.2	12.1	944
17	R		16.0 15.4	15.6	5.2	10.4	907
18	Y		16.7 16.1	16.2	5.2	11.0	919
19	B+W		16.3 15.2	15.6	5.2	10.4	905
20	R		15.7 14.8	15.1	5.2	9.9	894

F. B. 1888 Pg. 74
Job No. Division No. Notes Red. CEM Date 12/17/53 Plotted Date No. Profile
Survey of Notes Date 10/14/53 Notes Chkd. KB Date 1-5-54 Checked Date No. X-Sec.
Survey by Indexed

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	58+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90° 00'		
		22	B&W	12:11	90° 00'		
		23	R		90° 00'		
		24	Y		90° 00'		
		25	B&W	12:12	90° 00'		
		26	R		90° 00'		
58+00 N (550' Offset)	52+00 N (550' Offset)						

RANGE 58+00 N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1888 PG. 75

No. ____ Date ____ Date ____ Survey of [illegible]

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Job No. Division No. Notes Date

Survey of Survey by Indexed

F.B. 1888 PG: 76

76L298 307 4-50

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Do not extend notes this side of this line.

23

CUT IN 58+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
52+00	IV 2	21	Y		29° 08		
		22	B/W	12 12	27° 38		
		23	R		26° 21		
		24	Y		24° 26		
		25	B/W	12 13	23° 08		
		26	R		20° 27		

CUT IN 58+00

Profile Notes Red. ____ Plotted ____ Job No. 2412 Division No. ____ F. B. 1888 PG. 77

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	

F. B. 1888 PG. 78

Job No. ____ Division No. ____ Notes Red. ____ Plotted ____ Profile ____

Survey of ____ Date ____ Date ____ No. ____

Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	58400 -	
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21 Y		15.8					
		14.0	14.6	5.2	9.4	884	
22 B+W	12:12	15.0					
		13.8	14.2	5.2	9.0	864	
23 R		13.8					
		12.8	13.1	5.2	7.9	847	
24 Y		12.8					
		11.2	11.7	5.2	6.5	823	
25 B+W	12:13	11.2					
		9.5	10.1	5.2	4.9	806	
26 R		8.7					
		7.0	7.6	5.2	2.4	774	
27 Y							
28 B+W							
29 R							
30 Y							
31 B+W							
32 R							
33 Y							
34 B+W							
35 R							
36 Y							
37 B+W							
38 R							
39 Y							
40 B+W							

BOAT 58400 N

Profile Notes Red CEM Plotted ____ Job No. ____ Division No. ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1888 Pg. 79

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. Job No. Notes Date

F. B. 1818 PG. 80

Survey of

Survey by

Indexed

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	60+00 N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
60+00 N (550' Offset) / 54+00 N (550' Offset)	1	B&W	6:34	90°00'		
	2	R		90°00'		
	3	Y		90°00'		
	4	B&W	6:36	90°00'		
	5	R		90°00'	Range gun at	60+00 N
	6	Y		90°00'		
	7	B&W	6:39	90°00'		
	8	R		90°00'		
	9	Y		90°00'		
	10	B&W	6:41	90°00'		
	11	R		90°00'		
	12	Y		90°00'	Cut-in gun at	54+00N
	13	B&W	6:43	90°00'		
	14	R		90°00'		
	15	Y		90°00'		
	16	B&W	6:46	90°00'		
	17	R		90°00'		
	18	Y		90°00'		
	19	B&W	6:48	90°00'		
	20	R		90°00'		

Offset Line

550'

Base Line

Profile Notes Red. Plotted Job No. 8412 Division No.

No. Date Date Survey of

Notes Chkd. Checked Survey by

No. Date Date Map No. Indexed Date

F.B. 1888 Pg. 81

76L298 307 10-51

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ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	60+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
60+00 N (550' offset)	54+00 N (550' offset) RANGE 60+00 N	21	Y		90° 00'		
		22	B&W	6:49	90° 00'		
		23	R		90° 00'		
		24	Y		90° 00'		
		25	B&W	6:51	89° 37'		
		26	R		90° 00'		
		27	Y		90° 00'		
		28	B&W	6:53	90° 00'		
		29	R		90° 00'		
		30	Y		90° 00'		
		31	B&W	6:54	90° 00'		
		32	R		90° 00'		
		33	Y		90° 00'		
		34	B&W	6:55	90° 00'		
		35	R		90° 00'		
		36	Y		90° 00'		
		37	B&W	6:57	90° 00'		
		38	R		90° 00'		
		39	Y		90° 00'		
		40	B&W	6:59	90° 00'		

F.B. 1888 PG. 82 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of Beach Erosion Study Date ____ Date ____ No. ____ X-Sec. ____
Survey by FHB Notes CEM 10/15/53 Notes Chkd. ____ Checked ____ No. ____
Indexed ____ Date ____ Date ____ Date ____

76L298 307 4-50

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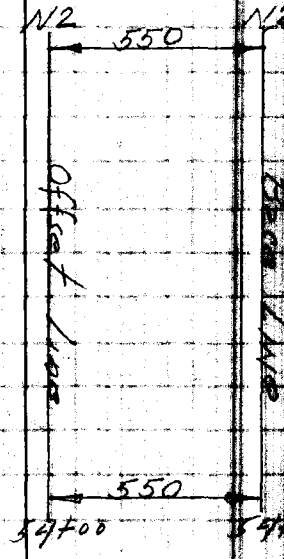
STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
54+00	N2 550 off	1	B+W	6 34	70° 57	
		2	R		69° 49	
		3	Y		68° 15	
		4	B+W	6 36	66° 45	
		5	R		64° 54	
		6	Y		62° 27	
		7	B+W	6 39	61° 08	
		8	R		59° 32	
		9	Y		58° 13	
		10	B+W	6 41	56° 45	
		11	R		55° 09	
		12	Y		53° 58	
		13	B+W	6 43	52° 16	
		14	R		49° 24	
		15	Y		47° 36	
		16	B+W	6 46	45° 22	
		17	R		42° 41	
		18	Y		41° 41	
		19	B+W	6 48	42° 25	*
		20	R		40° 45	

Cut in 60+00

Note
Inst on 550 off



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1888 Pg. 83

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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2

CUT IN 60+00

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
CUT-IN 60+00	N2	21	Y		39° 32	
		22	B/W	6 49	38° 25	
		23	R		36° 12	
		24	Y		35° 16	
		25	B/W	6 51	37° 1	
		26	R		3[illegible] 3	
		27	Y		3[illegible] [illegible]	*
		28	B/W	6 52	34° 1	
		29	R		32° 5	
		30	Y		31° 1	
		31	B/W	6 54	3[illegible] 8	
		32	R		29° [illegible]	
		33	Y		28° 13	
		34	B/W	6 55	26° 6	
		35	R		25° 13	
		36	Y		25° 33	
		37	B/W	6 57	27° 1	*
		38	R		25° 21	
		39	Y		24° 16	
		40	B/W	6 59	22° 24	

F. B. 1888 Pg. 84 Job No. 2412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by FHB Notes JS Notes Chkd. Checked X-Sec.
Indexed Date 10/15/53 Date Date No.

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	60+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1.	B+W	6:34	31.5 30.6	30.9	3.6	27.3	2288
2	R		30.4 29.7	29.9	3.6	26.3	2172
3	Y		29.7 28.4	28.8	3.6	25.2	2052
4.	B+W	6:36	28.9 27.2	27.8	3.6	24.2	1948
5.	R		27.2 25.8	26.3	3.6	22.7	1830
6.	Y		26.6 24.5	25.2	3.6	21.6	1700
7.	B+W	6:39	26.1 24.6	25.1	3.6	21.5	1639
8	R		25.0 23.9	24.3	3.6	20.7	1570
9.	Y		24.9 23.4	23.9	3.6	20.3	1519
10	B+W	6:41	24.9 22.5	23.3	3.6	19.7	1465
11	R		23.9 22.6	23.0	3.6	19.4	1410
12	Y		23.8 22.2	22.7	3.6	19.1	1375
13	B+W	6:43	23.1 22.0	22.4	3.6	18.8	1326
14	R		22.4 22.0	22.1	3.6	18.5	1250
15	Y		22.8 21.3	21.8	3.6	18.2	1207
16	B+W	6:46	21.4 20.8	21.0	3.6	17.4	1156
17	R		21.2 19.8	20.3	3.6	16.7	1104
18	Y		20.8 19.8	20.1	3.6	16.5	1085
19	B+W	6:48	21.1 19.8	20.2	3.6	16.6	1099
20	R		20.2 19.5	19.7	3.6	16.1	1066

BOAT 60+00 N

Profile Notes Red. CEM Plotted Job No. 9410 Division No.
Notes Chkd. Checked Survey By Notes
No. Date 1-5-54 Date Map No. Indexed Date
F. B. 1888 Pg. 85

76L298 307 4-50

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F. B. 1888 PG. 86

Job No. ____ Division No. ____ Notes Red. CEM Plotted ____ Profile No. ____
Date 12/17/53 Date ____
Survey of ____ Notes ____ Notes Chkd. KC Checked ____ X-Sec. No. ____
Survey by ____ Date 1-5-54 Date ____
Indexed ____

STATION: BOAT — 60+00 N

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
21	Y		19.9 / 19.0	19.3	3.6	15.7	1045
22	B&W	6.49	19.6 / 19.5	18.4	3.6	14.8	1020
23	R		19.1 / 17.2	17.8	3.6	14.2	998
24	Y		18.4 / 15.9	16.7	3.6	13.1	982
25	B&W	6.52	15.0 / 17.8	17.3	3.6	13.7	1008
26	R		18.6 / 16.9	17.3	3.6	13.7	988
27	Y		17.7 / 16.8	17.1	3.6	13.5	989
28	B&W	6.53	15.8 / 15.8	15.9	3.6	12.3	965
29	R		16.0 / 14.2	14.8	3.6	11.2	931
30	Y		15.6 / 14.5	14.9	3.6	11.3	921
31	B&W	6.55	13.5 / 13.2	13.6	3.6	10.0	908
32	R		14.0 / 13.0	13.3	3.6	9.7	888
33	Y		13.7 / 12.0	12.6	3.6	9.0	872
34	B&W	6.56	12.6 / 11.2	11.7	3.6	8.1	855
35	R		11.6 / 10.0	10.5	3.6	6.9	833
36	Y		11.6 / 10.2	10.7	3.6	7.1	831
37	B&W	6.58	13.0 / 12.0	12.3	3.6	8.7	863
38	R		12.7 / 10.0	10.7	3.6	7.1	839
39	Y		10.9 / 9.5	10.0	3.6	6.4	821
40	B&W	7.00	9.2 / 8.8	9.3	3.6	5.7	796

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	62+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
62+00N (550' Offset)	56+00N (550' Offset)	1	B&W	7:10	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	7:13	90°00'	Range gun at 62+00N	
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	7:15	90°00'		
		8	R		90°00'	B&W waved first, then red	
		9	Y		90°00'	550'	
		10	B&W	7:18	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	7:19	90°00'	Cut-in gun at 56+00N	
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	7:22	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	7:23	90°00'		
		20	R		90°00'		

Offset Line

Base Line

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____

No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 PG. 87

76L298 307 10-51

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1888 PG. 88 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Notes CEM 12/15/53 Date Date No. X-Sec.
Survey by FHB Notes Chkd. Checked
Indexed Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	62+00 N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
62+00 N (550' offset) / 56+00 N (550' offset) RANGE 62+00 N	21	Y		90° 00'		
	22	B&W	7:25	90° 00'		
	23	R		90° 00'		
	24	Y		90° 00'		
	25	B&W	7:27	90° 00'		
	26	R		90° 00'		
	27	Y		90° 00'		
	28	B&W	7:28	90° 00'		
	29	R		90° 00'		
	30	Y		90° 00'		
	31	B&W	7:29	90° 00'		
	32	R		90° 00'		
	33	Y		90° 00'		
	34	B&W	7:30	90° 00'		
	35	R		90° 00'		
	36	Y		90° 00'		
	37	B&W	7:32	90° 00'		
	38	R		90° 00'		
	39	Y		90° 00'		
	40	B&W	7:34	90° 00'		

761.298 307 4-50

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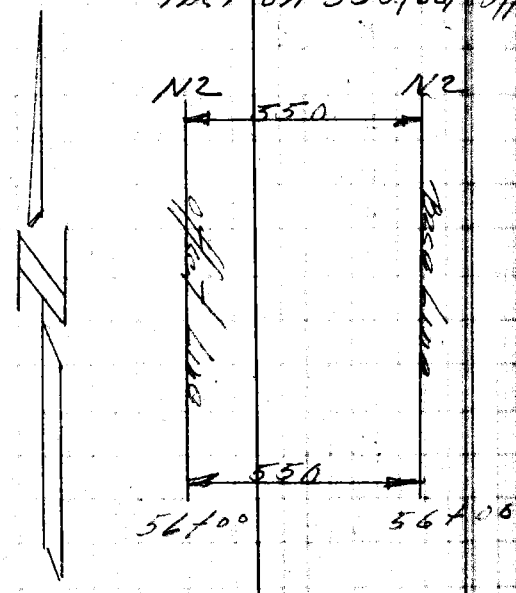
3

CUT IN 62+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
56+00	N2 550 off	1	B/W	7 10	69° 34	Note Inst on 550 foot Offset	
		2	R		68° 02		
		3	Y		66° 15		
		4	B/W	7 13	64° 56		
		5	R		63° 07		
		6	Y		61° 16		
		7	B/W	7 15	58° 59		
		8	R		57° 14		
		9	Y		55° 20		
		10	B/W	7 17	53° 03		
		11	R		49° 27		
		12	Y		46° 12		
		13	B/W	7 19	43° 34		
		14	R		41° 13		
		15	Y		38° 39		
		16	B/W	7 22	42° 03 *		
		17	R		41° 49		
		18	Y		40° 17		
		19	B/W	7 23	38° 44		
		20	R		37° 46		



CUT IN 62+00

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of
No. Date Date Map No. Indexed Date
F. B. 888 Pg. 89

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

4

cut-in 62+00

STATION Inst. At	Sight On	S. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
56+00	N2	21	Y		36 09		
CUT-IN 62+00		22	B/W	7 25	39 19	*	
		23	R		38 31		
		24	Y		39 01	*	
		25	B/W	7 21	39 08	*	
		26	R		38 33		
		27	Y		38 10		
		28	B/W	7 28	36 19		
		29	R		33 23		
		30	Y		34 23		
		31	B/W	7 29	33 [illegible]		
		32	R		31 19		
		33	Y		30 18		
		34	B/W	7 30	28 14		
		35	R		27 01		
		36	Y		25 25		
		37	B/W	7 31	25 07		
		38	R		23 24		
		39	Y		23 12		
		40	B/W	7 34	25 57	*	

F. B. 1888 Pg. 90
Survey of Bazda Erickson Fuller
Survey by F H B
Indexed
Job No. 8412 Division No.
Notes Red. Date
Notes Chkd. Date
Plotted Date
Checked Date
Profile No.
X-Sec. No.

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	62+00 N
#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth		Remarks
1	B&W	7:11	30.8 29.3	29.8	3.6	26.2	2160
2	R		29.1 28.0	28.4	3.6	24.8	2038
3	Y		28.1 27.0	27.4	3.6	23.8	1910
4	B&W	7:13	27.5 26.8	27.0	3.6	23.4	1831
5	R		26.4 25.9	26.1	3.6	22.5	1732
6	Y		26.2 24.9	25.3	3.6	21.7	1643
7	B&W	7:16	25.0 23.8	24.2	3.6	20.6	1547
8	R		25.0 23.5	24.0	3.6	20.4	1482
9	Y		24.1 22.9	23.3	3.6	19.7	1416
10	B&W	7:18	23.9 22.5	23.0	3.6	19.4	1349
11	R		23.0 22.0	22.3	3.6	18.7	1251
12	Y		22.1 21.0	21.4	3.6	17.8	1175
13	B&W	7:20	21.9 20.5	21.0	3.6	17.4	1120
14	R		20.4 19.5	19.8	3.6	16.2	1076
15	Y		19.4 17.9	18.4	3.6	14.8	1030
16	B&W	7:22	20.9 19.2	19.8	3.6	16.2	1092
17	R		21.0 19.5	20.0	3.6	16.4	1087
18	Y		20.0 19.2	19.5	3.6	15.9	1055
19	B&W	7:23	19.4 18.5	18.8	3.6	15.2	1031
20	R		19.2 18.0	18.4	3.6	14.8	1015

Profile Notes Red. CEM Plotted Job No. 8412 Division No.
Notes Chkd. Checked Survey by
No. Date 1-5-54 Date Map No. Indexed Date
F. B. 1588 Pg. 91

76L290 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED IN INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	62+00-N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		18.4 16.3	17.0	3.6	13.4	989
22	B&W	7:26	19.5 18.6	18.9	3.6	15.3	1041
23	R		20.1 18.0	18.7	3.6	15.1	1028
24	Y		19.6 18.0	18.5	3.7	14.8	1037
25	B&W	7:28	19.1 18.3	18.6	3.7	14.9	1041
26	R		19.4 18.0	18.5	3.7	14.8	1028
27	Y		19.8 17.9	18.6	3.7	14.9	1020
28	B&W	7:29	18.1 16.7	17.2	3.7	13.5	991
29	R		17.2 16.1	16.5	3.7	12.8	976
30	Y		16.2 15.0	15.4	3.7	11.7	960
31	B&W	7:29	16.0 14.1	14.7	3.7	11.0	953
32	R		16.0 13.9	14.6	3.7	10.9	915
33	Y		14.9 13.9	14.2	3.7	10.5	901
34	B&W	7:31	13.6 12.8	13.1	3.7	9.4	872
35	R		13.1 11.8	12.2	3.7	8.5	856
36	Y		12.0 10.0	10.7	3.7	7.0	836
37	B&W	7:33	10.9 9.3	10.0	3.7	6.3	832
38	R		10.8 8.4	9.2	3.7	5.5	810
39	Y		9.9 8.4	8.9	3.7	5.2	805
40	B&W	7:35	12.0 10.6	11.1	3.7	7.4	842

F. B. 1887 Pg. 92
Job No. ____ Division No. ____ Notes Red. CEM Plotted ____ Profile ____
Date 12/17/53 Date ____ No. ____
Survey of ____ Notes ____ Notes Chkd. CCK Checked ____ X-Sec. ____
Survey by ____ Date ____ Date 1-5-54 Date ____ No. ____
Indexed ____

76L298 307 10-51

PLEASE RETURN TO

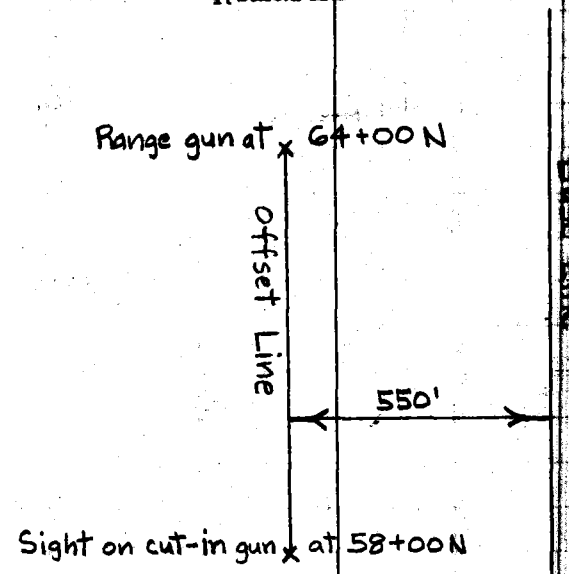
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	64 +00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
64+00 N (550' Offset)	58+00 N (550' Offset)	1	B&W	7:46	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	7:49	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	7:51	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	7:53	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	7:55	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	7:58	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	8:00	90°00'		
		20	R		90°00'		



Profile Notes Red. Plotted Job No. 8412 Division No.

X-Sec. Notes Chkd. Checked Survey by FAB Notes Date

No. Date Date Map No. Indexed Date

F.B. 1888 PG. 93

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1888 PG. 94
Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ No. ____ Profile
Survey of Beach Erosion Study Date ____ Date ____ X-Sec.
Survey by EHB Notes CEM 10/15/53 Notes Chkd. ____ Checked ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	64+00 N
Inst. Sight At OR	#	Color	Time	Hor. Ang.		Remarks
	21	Y		90° 00'		
	22	B&W	8:02	90° 00'		
	23	R		90° 00'		
	24	Y		90° 00'		
	25	B&W	8:03	90° 00'		
	26	R		90° 00'		
	27	Y		90° 00'		
	28	B&W	8:06	90° 00'		
	29	R		90° 00'		
	30	Y		90° 00'		
	31	B&W	8:07	90° 00'		
	32	R		90° 00'		
	33	Y		90° 00'		
	34	B&W	8:08	90° 00'		
	35	R		90° 00'		

64+00 N (550' offset)
58+00 N (550' offset)
RANGE 64+00 N

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

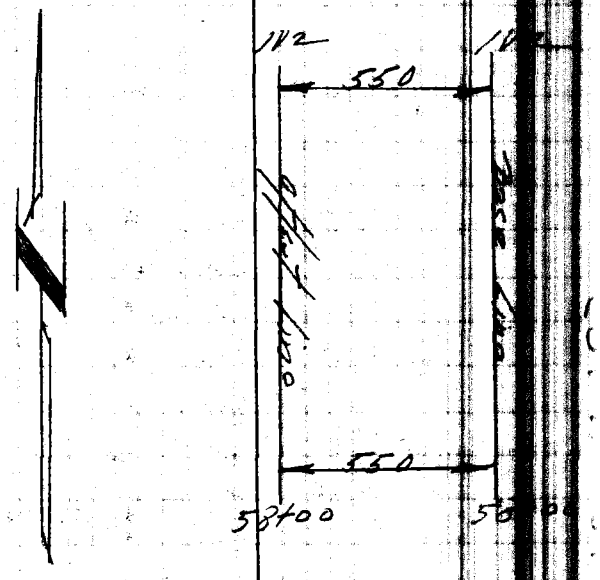
NOTE:- ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

5

cutin 64

STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Not ...
58+00	N2 550 off	1	B/W	7 46	69° 32		Inst on 550 feet off
		2	R		67° 59		
		3	Y		66° 39		
		4	B/W	7 48	65° 12		
		5	R		63° 42		
		6	Y		62° 13		
		7	B/W	7 51	59° 41		
		8	R		59° 54		
		9	Y		54° 53		
		10	B/W	7 53	51° 40		
		11	R		48° 35		
		12	Y		45° 29		
		13	B/W	7 55	42° 41		
		14	R		45° 55 *		
		15	Y		45° 06		
		16	B/W	7 58	42° 10		
		17	R		40° 16		
		18	Y		39° 18		
		19	B/W	7 59	37° 33		
		20	[illegible]		37° 29		



Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of ____ Map No. ____ Indexed ____ Date ____

F. B. [illegible] Pg. 95

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

6

CUT-IN 64+00

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
58+00	N2	21	Y		37° 50	
		22	B/W	8 01	37° 12	
		23	R		37° 23 *	
		24	Y		36° 07	
		25	B/W	8 03	34° 56	
		26	R		33° 05	
		27	Y		31° 41	
		28	B/W	8 05	29° 12	
		29	R		27° 42	
		30	Y		27° 48 *	
		31	B/W	8 07	25° 58	
		32	R		24° 31	
		33	Y		24° 23	
		34	B/W	8 08	22° 12	
		35	R		22° 42 *	

CUT-IN 64+00

F. B. 1888 Pg. 96
Job No. 2412 Division No. Notes Red. Plotted Profile
Survey of Bazar Erosion Studies Date Date No.
Survey by F.H.B. Notes Notes Chkd. Checked X-Sec.
Indexed Date 10/15/53 Date Date No.

FORM 807 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Boat 64400

STATION	B. S.	H. I.	F. S.	ELEV.			
#	Color Time	Meas. Depth	Bottom Tide	Adj. Depth		Remarks	
1	B&W 7:46	31.3 30.1	30.5	3.7	26.8	2157	
2	R	29.1 28.0	28.4	3.7	24.7	2032	
3	Y	29.0 27.1	27.7	3.7	24.0	1940	
4	B&W 7:49	28.1 27.0	27.4	3.7	23.7	1849	
5	R	27.1 25.9	26.3	3.7	22.6	1762	
[illegible]	Y	26.9 25.0	25.6	3.7	21.9	1689	
[illegible]	[illegible]W 7:51	25.2 24.8	24.9	3.7	21.2	1576	
[illegible]	R	24.8 24.0	24.3	3.7	20.6	1583	
9	Y	24.0 22.7	23.1	3.7	19.4	1404	
10	B&W 7:54	23.6 22.0	22.5	3.7	18.8	1309	
11	R	23.0 21.5	22.0	3.7	18.3	1230	
12	Y	21.8 20.9	21.2	3.7	17.5	1160	
13	B&W 7:56	21.2 20.0	20.4	3.7	16.7	1104	
14	R	22.0 21.0	21.3	3.7	17.6	1169	
15	Y	22.0 21.0	21.3	3.7	17.6	1152	
16	B&W 7.58	20.9 19.2	19.8	3.7	16.1	1094	
17	R	20.0 19.1	19.4	3.7	15.7	1059	
18	Y	20.1 18.7	19.2	3.7	15.5	1041	
19	B&W 8:00	18.9 17.9	18.2	3.7	14.5	1010	
20	R	18.0 17.2	18.1	3.7	14.4	1010	

Profile Notes Red CEM Plotted _____ Job No. 8412 Division No. _____ F.B. 1118 PG. 97

No. _____ Date _____ Checked _____ Map No. _____ Indexed _____ Date _____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I. Meas.	F. S.	ELEV. Ht.	Boat		64+00 N
#	Color	Time	Depth	Botom	Tide	Adj. Depth		Remarks
21	Y		18.9 17.6	18.0	3.7	14.3	1016	
22	B+W	8:02	18.8 17.1	17.7	3.7	14.0	1005	
23	R		19.1 17.6	18.1	3.7	14.4	1009	
24	Y		18.0 17.0	17.3	3.7	13.6	988	
25	B+W	8:04	17.8 16.0	16.6	3.7	12.9	969	
26	R		16.6 15.0	15.5	3.7	11.8	941	
27	Y		16.0 14.2	14.8	3.7	11.1	921	
28	B+W	8:06	15.0 12.7	13.5	3.7	9.8	886	
29	R		13.8 11.3	12.1	3.7	8.4	865	
30	Y		13.4 11.3	12.0	3.7	8.3	866	
31	B+W	8:08	11.9 10.8	11.2	3.7	7.5	842	
32	R		11.3 9.9	10.4	3.7	6.7	824	
33	Y		10.2 9.9	10.0	3.7	6.3	822	
34	B+W	8:09	9.9 8.9	9.2	3.7	5.5	795	
35	R		9.1 8.2	8.5	3.7	4.8	801	
36	Y							
37	B+W							
38	R							
39	Y							
40	B+W							

F.B. 1888 PG. 99

Job No. ____ Division No. ____ Notes Red CEM Plotted ____ Profile

Survey of ____ Date 12/17/53 Date ____ No. ____

Survey by ____ Notes Chkd. [illegible] Checked ____ X-Sec.

Indexed ____ Date ____ Date ____ No. ____

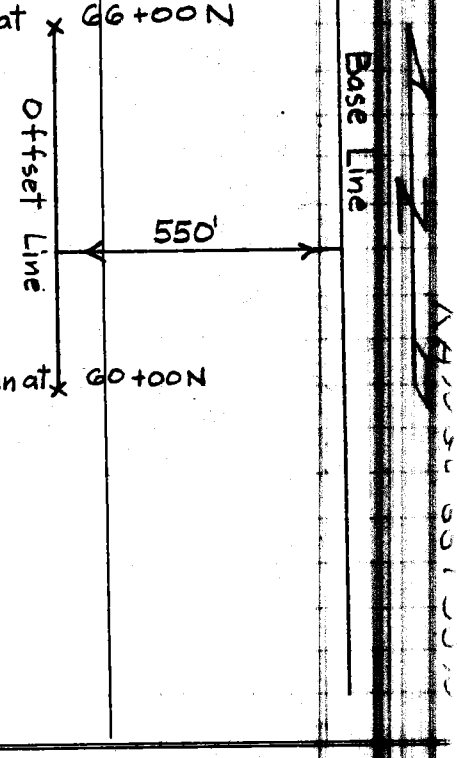
76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE 66+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
66+00 N (550' offset)	60+00 N (550' offset)	1	B&W	8:20	90°00'	
		2	R		90°00'	
		3	Y		90°00'	
		4	B&W	8:22	90°00'	Range gun at 66+00 N
		5	R		90°00'	
		6	Y		90°00'	
		7	B&W	8:24	90°00'	
		8	R		90°00'	
		9	Y		90°00'	
		10	B&W	8:27	90°00'	
		11	R		90°00'	
		12	Y		90°00'	Sight on cut-in gun at 60+00 N
		13	B&W	8:28	90°00'	
		14	R		90°00'	
		15	Y		90°00'	
		16	B&W	8:30	90°00'	
		17	R		90°00'	
		18	Y		90°00'	
		19	B&W	8:32	90°00'	
		20	R		90°00'	



Profile Notes Red ____ Plotted ____ Job No. 9412 Division No. ____ F. B. 1888 Pg. 99

X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this-side of this line.

F. B. 1888 Pg. 100
Job No. 8412 Division No. Notes Red. Plotted Profile No.
Survey of Beach Erosion Study Date Date X-Sec. No.
Survey by EHB Notes CEM 10/15/53 Notes Chkd. Checked
Indexed Date Date Date

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Her. Ang.	RANGE 66+00N Remarks
RANGE 66+00N		21	Y		90°00'	
		22	B&W	8:33	90°00'	
		23	R		90°00'	
		24	Y		90°00'	
		25	B&W	8:35	90°00'	
		26	R		90°00'	
		27	Y		90°00'	
		28	B&W	8:37	90°00'	
		29	R		90°00'	
		30	Y		90°00'	
66+00 N	60+00 N	31	B&W	8:38	90°00'	
		32	R		90°00'	
		33	Y		90°00'	
		34	B&W	8:40	90°00'	

76L298 307 4-50

[redacted] RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

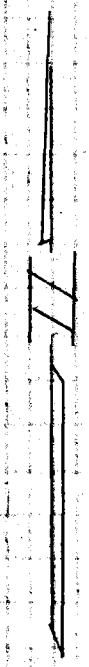
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

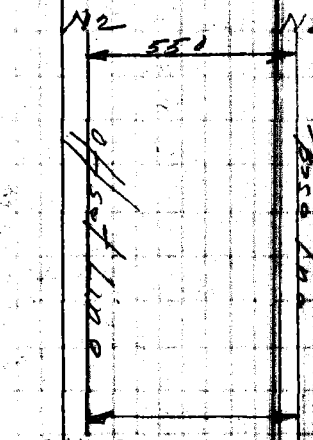
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
60+00	N2 550 off	1	B/W	8 20	69° 43	
		2	R		67° 46	
		3	Y		66° 05	
		4	B/W	8 22	64° 10	
		5	R		62° 40	
		6	Y		60° 34	
		7	B/W	8 25	58° 03	
		8	R		56° 04	
		9	Y		53° 43	
		10	B/W	8 26	51° 35	
		11	R		46° 47	
		12	Y		44° 35	
		13	B/W	8 27	42° 16	
		14	R		40° 02	
		15	Y		37° 55	
		16	B/W	8 29	35° 38	
		17	R		38° 33	
		18	Y		37° 21	
		19	B/W	8 31	35° 44	
		20	R		34° 19	

Cutting to

Note
Inst on 550 foot off





Profile Notes Red. Plotted Job No. 8417 Division No.
No. Date Date Date Date Date Map No. Indexed Date
F. B. 1888 Pg. 101

76L298 307 4-50

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Do not extend notes this side of this line.

8

cut in 66+00

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
60+00	N2	21	Y		31° 50	
		22	B/W	8 33	30° 07	
		23	R		27° 42	
		24	Y		30° 13	
		25	B/W	8 34	28° 34	
		26	R		26° 37	
		27	Y		25 15	
		28	B/W	8 37	25° 46 *	
		29	R		24° 55	
		30	Y		24° 46	
		31	B/W	8 38	23° 51	
		32	R		22° 04	
		33	Y		20° 31	
		34	B/W	8 39	21° 57 *	

CUT-IN 66+00

F. B. 1888 Pg. 102
Job No. 8416 Division No. Notes Red. Plotted Profile
Survey of Barch Erasmus Judas Date Date No.
Survey by E H B Notes J S Notes Chkd. Checked X-Sec.
Indexed Date 10/15/53 Date Date No.

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	Boat	66+00	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	Bell	8:20	31.1 / 29.5	30.0	3.7	26.3	2090	
2	R		29.2 / 28.3	28.6 / ~~29.1~~	3.7	24.9 / ~~25.4~~	2019	
3			28.0 / 27.0	27.3	3.7	23.6	1942	
4	Bell	8:23	27.1 / 26.0	26.4	3.7	22.7	1849	
5	R		26.8 / 25.6	26.0	3.7	22.3	1710	
6			25.7 / 24.0	24.6	3.8	20.8	1632	
7	Bell	8:25	24.9 / 24.0	24.3	3.8	20.5	1612	
8	R		24.8 / 22.9	23.5	3.8	19.7	1543	
9			23.9 / 22.0	23.0	3.8	19.2	1368	
10	Bell	8:27	23.8 / 22.4	22.9	3.8	19.1	1306	
11	R		22.9 / 21.0	21.6	3.8	17.8	1189	
12			22.0 / 20.5	21.0	3.8	17.2	1141	
13	Bell	8:29	21.2 / 19.9	20.3	3.8	16.5	1096	
14			20.3 / 19.1	19.5	3.8	15.7	1055	
15			20.1 / 18.7	19.2	3.8	15.4	1017	
16	Bell	8:30	18.8 / 16.7	17.4	3.8	13.6	980	
17	R		19.0 / 17.8	18.2	3.8	14.4	1028	
18			19.0 / 18.0	18.3	3.8	14.5	1008	
19	Bell	8:31	18.8 / 16.9	17.5	3.8	13.7	981	
20	R		17.3 / 15.8	16.3	3.8	12.5	960	

Boat 66+00 N

Profile Notes Red CEM Plotted ____ Job No. 811.2 Division No. ____ F.B. ____ Pg. 65

Notes Chkd. ____ Checked ____ Survey By ____ Note ____

No. ____ Date 1-6-59 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	[illegible]		16.0 / 14.6	15.1	3.8	11.3	923
22	Bott	8:33	15.0 / 13.9	14.3	3.8	10.5	898
23	R		14.8 / 12.0	12.9	3.8	9.1	865
24	Y		14.8 / 13.1	13.7	3.8	9.9	900
25	Bott	8:35	14.2 / 13.0	13.4	3.8	9.6	877
26	R		12.9 / 11.6	12.0	3.8	8.2	851
27	Y		11.8 / 10.9	11.2	3.8	7.4	833
28	Bott	8:37	12.0 / 9.5	10.3	3.8	6.5	840
29	R		11.9 / 10.7	11.1	3.8	7.3	829
30	Y		11.6 / 10.6	10.9	3.8	7.1	823
31	Bott	8:39	10.9 / 9.2	9.8	3.8	6.0	815
32	Y		10.1 / 9.0	9.4	3.8	5.6	800
33	Y		7.8 / 6.7	7.1	3.8	3.3	775
34	Bott	8:40	10.0 / 8.0	8.7	3.8	4.9	792
35	R						
36	Y						
37	[illegible]						
38	Y						
39							
40	[illegible]						

F.B. 1888 PG. 104

Job No. ____ Division No. ____ Notes Red CEM Plotted ____ Profile ____

Survey of ____ Date 12/17/53 Date ____ No. ____

Survey by ____ Notes ____ Notes Chkd. [illegible] Checked ____ X-Sec. ____

Indexed ____ Date ____ Date 1-5-54 Date ____ No. ____

76L298 307 4-50

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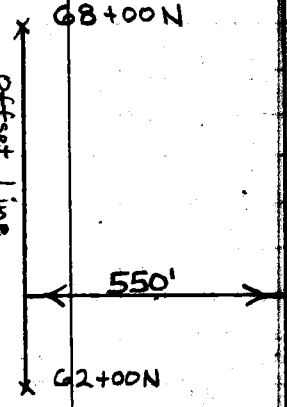
STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 68+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1	B&W	8:52	90°00'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	8:55	89°54'	Range gun at 68+00N
	5	R		90°00'	
	6	Y		90°00'	
	7	B&W	8:57	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
68+00N (550' offset) 62+00N (550' offset)	10	B&W	8:59	90°00'	
	11	R		90°00'	
	12	Y		90°00'	Sight on cut-in gun at 62+00N
	13	B&W	9:01	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	9:03	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	9:04	90°00'	
	20	R		90°00'	



Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Map No. Indexed Date
F. B. 18888 Pg. 105

76L298 307 4-50

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F. B. 1888 Pg. 1096 Job No. 8412 Division No. Notes Red. Plotted Profile No.
Survey of Beach Erosion Study Date Date X-Sec. No.
Survey by EHB Notes CEM 10/15/53 Notes Chkd. Checked
Indexed Date Date Date Date

Instrument At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	RANGE Remarks	68+00N
RANGE 68+00N		21	Y		90°00'		
		22	B&W	9:06	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B&W	9:08	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B&W	9:10	90°00'		
		29	R		90°00'		
68+00N	62+00N						

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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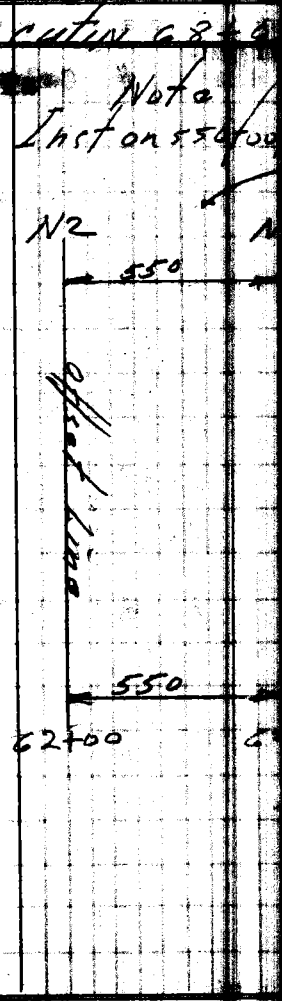
STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
62+00 N2 55P off	1	B/W	8 52	69° 38	
	2	R		67° 44	
	3	Y		66° 15	
	4	B/W	8 54	64° 05	
	5	R		62° 29	
	6	Y		60° 20	
	7	B/W	8 56	58° 04	
	8	R		59° 19	
	9	Y		56° 47	
	10	B/W	8 58	55° 08	
	11	R		52° 24	
	12	Y		48° 43	
	13	B/W	9:00	46° 17	
	14	R		43° 25	
	15	Y		40° 42	
	16	B/W	9 02	38° 10	
	17	R		40° 41	
	18	Y		39° 97	
	19	B/W	9 04	37° 42	
	20	R		34° 46	



Profile Notes Red ____ Plotted ____ Job No. 2412 Division No. ____ F. B. ____ Pg. 107

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
62+00	N2	21	Y		33° 11		
		22	B/W	9 06	30° 32		
		23	R		28° 36		
		24	Y		30° 14		
		25	B/W	9 08	27° 09		
		26	R		25° 57		
		27	Y		23° 46		
		28	B/W	9 09	21° 44		
		29	R		20° 51		

CUT-IN 68+00 N

+0
C4/NV 68+00

F. B. 1888 Pg. 108
Job No. 8412 Division No. 1
Survey of Bazch Erosion Hollow
Survey by EHB Notes J
Indexed Date 10/15/53
Notes Red Date
Notes Chkd Date
Plotted Date
Checked Date
Profile No.
X-Sec. No.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	68+00-N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B&W	8:52	30.8 / 29.2	29.7	3.8	25.9	2165
2	R		29.9 / 28.2	28.8	3.8	25.0	2018
3	Y		29.0 / 27.7	28.1	3.8	24.3	1914
4	B&W	8:54	27.8 / 26.1	26.7	3.8	22.9	1785
5	R		27.0 / 25.9	26.3	3.8	22.5	1701
6	Y		26.0 / 25.0	25.3	3.8	21.5	1603
7	B&W	8:57	25.1 / 23.4	24.0	3.8	20.2	1514
8	R		25.3 / 24.0	24.4	3.8	20.6	1560
9	Y		24.8 / 23.7	24.1	3.8	20.3	1466
10	B&W	8:59	24.0 / 23.0	23.3	3.8	19.5	1410
11	R		23.3 / 22.6	22.8	3.8	19.0	1329
12	Y		22.6 / 21.5	21.9	3.8	18.1	1233
13	B&W	9:01	24.0 / 21.0	22.0	3.8	18.2	1178
14	R		21.9 / 20.1	20.7	3.8	16.9	1118
15	Y		21.0 / 19.7	20.1	3.8	16.3	1066
16	B&W	9:03	20.1 / 18.2	18.8	3.8	15.0	1021
17	R		21.8 / 19.9	20.5	3.8	16.7	1066
18	Y		21.0 / 19.1	19.7	3.8	15.9	1050
19	B&W	9:05	19.8 / 18.0	18.6	3.8	14.8	1014
20	R		18.8 / 16.8	17.5	3.8	13.7	967

BOAT 68+00 N

Profile No. ____ Notes Red CEM Plotted ____ Job No. [illegible] Division No. ____ F.B. [illegible] PG. 109

Date [illegible] Date ____ Survey of ____

No. ____ Date 1-6-54 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	68+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		17.3 15.2	15.9	3.8	12.1	942
22	B+W	9:07	16.1 15.0	15.4	3.8	11.6	904
23	R		14.1 13.0	13.4	3.8	9.6	877
24	Y		15.0 14.0	14.3	3.8	10.5	900
25	B+W	9:09	13.8 12.0	12.6	3.8	8.8	858
26	R		12.1 11.0	11.4	3.8	7.6	842
27	Y		11.6 10.1	10.6	3.8	6.8	814
28	B+W	9:10	10.3 9.0	9.4	3.8	5.6	789
29	R		9.6 8.0	8.5	3.8	4.7	778
30	Y						
31	B+W						
32	R						
33	Y						
34	B+W						
35	R						
36	Y						
37	B+W						
38	R						
39	Y						
40	B+W						

BOAT 68+00N

F.B. 1888 PG. 110 Job No. Division No. Notes Red. CEM Plotted Date 12/17/53 Date No. Profile

Survey of Notes Checked Date X-Sec.

Survey by Notes Date

Indexed Date 1-6-54 Date No.

76L298 307 4-50

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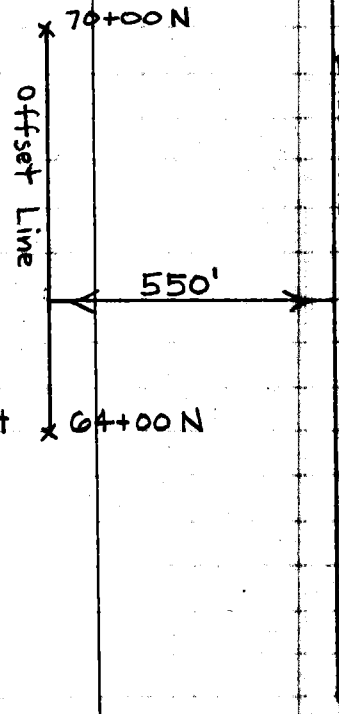
STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 70+00 N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	1	BEW	9:19	90° 00'	
	2	R		90° 00'	
	3	Y		90° 00'	Broke Shear Pin
	4	BEW	9:39	90° 00'	Range gun at 70+00 N
	5	R		90° 00'	
	6	Y		90° 00'	
	7	BEW	9:42	90° 00'	
	8	R		90° 00'	
	9	Y		90° 00'	
70+00 N (550' offset) / 64+00 N (550' offset)	10	BEW	9:43	90° 00'	
	11	R		90° 00'	
	12	Y		90° 00'	
	13	BEW	9:45	90° 00'	Sight on cut-in gun at 64+00 N
	14	R		90° 00'	
	15	Y		90° 00'	
	16	BEW	9:46	90° 00'	
	17	R		90° 00'	
	18	Y		90° 00'	
	19	BEW	9:48	90° 00'	
	20	R		90° 00'	



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1888 Pg. 111

F. B. 1888 Pg. 112 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date _____ Date _____ No. _____

Survey by FHB Notes CEM 10/15/53 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

RANGE 70+00N 70+00 N

64+00 N

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	RANGE	Remarks	70+00 N
		21	Y		90° 00'			
		22	B&W	9:50	90° 00'			
		23	R		90° 00'			
		24	Y		90° 00'			
		25	B&W	9:52	90° 00'			

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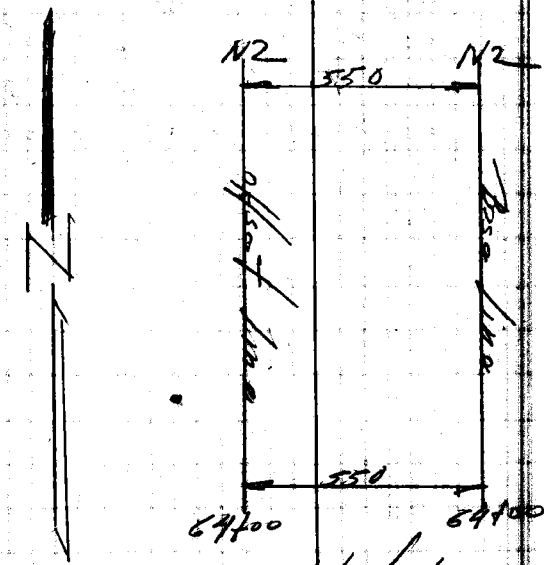
11
CUTIN 70+0

STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		
64+00	N2 550 off	1	B/W	9 19	68° 27		
		2	R		65° 58		
		3	Y		63° 28		
		4	B/W	9 39	61° 37		
		5	R		59° 28		
		6	Y		57° 11		
		7	B/W	9 42	54° 04		
		8	R		50° 41		
		9	Y		47° 43		
		10	B/W	9 43	45° 33		
		11	R		43° 41		
		12	Y		41° 38		
		13	B/W	9 44	39° 32		
		14	R		37° 23		
		15	Y		35° 07		
		16	B/W	9 46	36° 52 *		
		17	R		33° 56		
		18	Y		32° 14		
		19	D/W	9 47	30° 36		
		20	R		28° 19		



Note:
Inst on 550 offset

Profile Notes Red. ____ Plotted ____ Job No. 8-11 Division No. ____
No. ____ Date ____ Date ____ Survey of ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____
F. B. 1888 PG. 113

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
64+00	N2	21	Y		25° 03		
		22	B/W	9 50	26° 30		
		23	R		23° 58		
		2-1	Y		23° 19		
		25	B/W	9 52	21° 31		

Cut-in 70+00N

F. B. 1878 Pg. 114 Job No. 841C Division No. 1 Notes Red Plotted Profile
Survey of Bazar Erosion Studies Date Date No.
Survey by F+B Notes 1C Notes Chkd. Checked X-Sec.
Indexed Date 10/15/53 Date Date No.

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	10+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B&W	9:19	30.7 / 28.8	29.4	3.9	25.5	2070
2	R		29.0 / 27.0	27.7	3.9	23.8	1896
3	Y		28.0 / 25.6	26.4	3.9	22.5	1751
4	B&W	9:39	26.8 / 25.0	25.6	3.9	21.7	1661
5	R		26.4 / 24.6	25.2	3.9	21.3	1569
6	Y		25.0 / 23.8	24.2	3.9	20.3	1480
7	B&W	9:41	24.9 / 22.7	23.4	3.9	19.5	1378
8	R		23.4 / 21.9	22.4	3.9	18.5	1283
9	Y		22.8 / 22.0	22.3	3.9	18.4	1210
10	B&W	9:44	22.9 / 21.0	21.6	4.0	17.6	1161
11	R		22.7 / 20.5	21.2	4.0	17.2	1123
12	Y		22.0 / 20.1	20.7	4.0	16.7	1084
13	B&W	9:45	21.6 / 20.0	20.3	4.0	16.3	1045
14	R		20.6 / 19.0	19.5	4.0	15.5	1009
15	Y		18.7 / 17.0	17.6	4.0	13.6	972
16	B&W	9:46	18.9 / 18.0	18.3	4.0	14.3	1000
17	R		17.4 / 16.2	16.6	4.0	12.6	954
18	Y		17.0 / 15.4	15.7	4.0	11.7	928
19	B&W	9:47	15.1 / 14.0	14.4	4.0	10.4	905
20	R		14.2 / 13.0	13.4	4.0	9.4	874

BOAT BOTTOM

Profile

Notes Red. CEM Plotted ____ Job No. ____ Division No. ____

Notes Chkd. ____ Checked ____ Survey By ____ Notes ____

No. ____ Date 1-6-54 Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 PG. 115

76L298 307 10-51

PLEASE RETURN TO

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	70+00-N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		12.9 11.2 13.3	11.8	4.0	7.8	831
22	B&W	9.50	11.9 12.0	12.4	4.0	8.4	849
23	R		9.0 11.0	10.0	4.0	6.0	817
24	Y		9.6 10.2	10.1	4.0	6.1	809
25	B&W	9:52	8.0	8.7	4.0	4.7	786
26	R						
27	Y						
28	B&W						
29	R						
30	Y						
31	B&W						
32	R						
33	Y						
34	B&W						
35	R						
36	Y						
37	B&W						
38	R						
39	Y						
40	B&W						

BOAT 70+00N

F.B. 1888 PG. 116

Job No. ____ Division No. ____ Notes Red CEM Date 12/17/53 Plotted ____ Date ____ No. ____ Profile ____

Survey of ____ Notes ____ Notes Chkd FK Date 1-6-54 Checked ____ Date ____ No. ____ X-Sec. ____

Survey by ____ Date ____ Date ____ Date ____ Date ____ No. ____

Indexed ____

76L298 307 4-56

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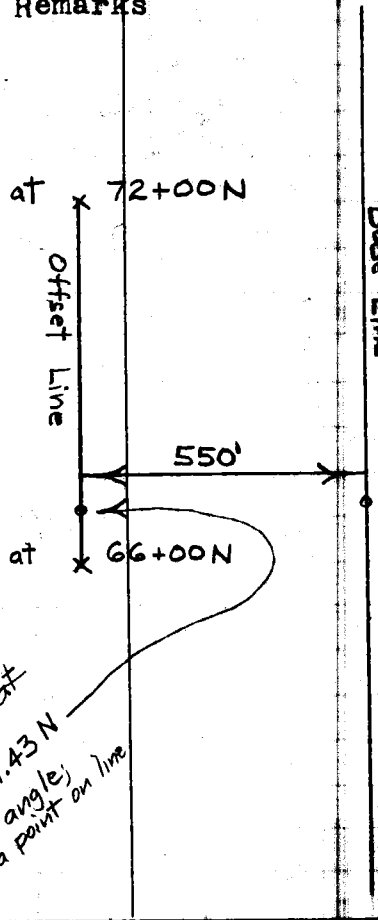
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 72+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1	B&W	10:03	90°00	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	10:05	90°00'	Range gun at 72+00N
	5	R		90°00'	
	6	Y		90°00'	
	7	B&W	10:07	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
72+00N (550' Offset) 66+00N (550' Offset)	10	B&W	10:09	90°00'	
	11	R		90°00'	
	12	Y		90°00'	Sight on cut-in gun at 66+00N
	13	B&W	10:11	90°00'	
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	10:13	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	10:14	90°00'	
	20	R		90°00'	



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 18888 Pg. 117

No. ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line.

F. B. 1888 Pg. 118 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date No. X-Sec.
Survey by EHB Notes CEM 10/15/53 Notes Chkd. Checked
Indexed Date Date Date No.

STATION ~~Inst. Sight~~ At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Her. Ang.	RANGE Remarks	72+00 N
		21	Y		90° 00'		
		22	B & W	10:16	90° 00'		
		23	R		90° 00'		
72+00 N	66+00 N	24	Y		90° 00'		
		25	B & W	10:18	90° 00'		
		26	R		90° 00'		
		27	Y		90° 00'		
		28	B & W	10:20	90° 00'		
RANGE 72+00 N							

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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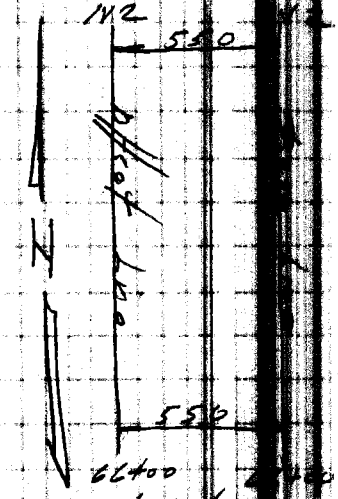
Do not extend notes this side of this line.

13

Cutin 72+00

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	On	#	Color	Time	Hor. Ang.	
66+00	N2 550 off	1	B/W	10 02	68° 48	
		2	R		66° 55	
		3	Y		64° 21	
		4	B/W	10 05	61° 53	
		5	R		58° 53	
		6	Y		55° 18	
		7	B/W	10 07	51° 48	
		8	R		52° 51	
		9	Y		48° 52	
		10	B/W	10 09	46° 49	
		11	R		47° 50	
		12	Y		43° 15	
		13	B/W	10 11	40 27	
		14	R		38° 30	
		15	Y		36° 25	
		16	B/W	10 12	33° 23	
		17	R		35° 10	
		18	Y		30° 43	
		19	B/W	10 14	33° 16	
		20	R		31° 45	



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1888 Pg. 119

No. ____ Date ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

Survey of ____

Cut 1172+00

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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14

STATION		B. S.	H. I.	F. S.	ELEV.	cut in 72+00
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
66+00	N2	21	Y		29° 24	
		22	B/W	10 16	27° 29	
		23	R		24° 06	
		24	Y		26° 08	
		25	B/W	10 17	25° 24	
		26	R		23° 23	
		27	Y		22° 29	
		28	B/W	10 20	21° 08	

CUT-IN 72+00N

F. B. 1888 Pg. 120
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Bass Erosion Studies Date Date No.
Survey by FHB Notes US Notes Chkd. Checked X-Sec.
Indexed Date 10/15/53 Date Date No.

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	72+00 -
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B&W	10:03	31.7 / 29.3	30.1	4.0	26.1	2098
2	R		29.6 / 28.1	28.6	4.0	24.6	1892
3	Y		27.1 / 26.9	27.0	4.0	23.0	1800
4	B&W	10:05	27.1 / 25.0	25.7	4.0	21.7	1672
5	R		25.8 / 24.6	25.0	4.0	21.0	1544
6	Y		25.0 / 23.9	24.3	4.0	20.3	1415
7	B&W	10:07	23.6 / 22.2	22.7	4.0	18.7	1312
8	R		24.1 / 22.7	23.2	4.0	19.2	1342
9	Y		23.1 / 22.5	22.7	4.0	18.7	1237
10	B&W	10:09	22.5 / 20.9	21.4	4.1	17.3	1166
11	R		23.0 / 21.9	22.3	4.1	18.2	1190
12	Y		21.3 / 20.8	21.0	4.1	16.9	1115
13	B&W	10:11	21.8 / 19.9	20.5	4.1	16.4	1062
14	R		20.7 / 18.9	19.5	4.1	15.4	1027
15	Y		19.0 / 18.0	18.3	4.1	14.2	990
16	B&W	10:13	17.1 / 16.1	16.4	4.1	12.3	945
17	R		18.1 / 16.8	17.2	4.1	13.1	973
18	Y		16.0 / 14.1	14.7	4.1	10.6	906
19	B&W	10:15	17.5 / 15.5	16.2	4.1	12.1	944
20	R		16.0 / 15.1	15.4	4.1	11.3	921

BOAT

Profile No. ____ Date ____ Notes Red CEM Plotted ____ Date ____ Job No. 2412 Division No. ____ Survey of ____

No. ____ Date 1-8-54 Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 PG. 121

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1888 PG. 122

Job No. ____ Division No. ____ Notes Red. CEM Plotted ____ Profile No. ____
Date 12/17/53 Date ____
Notes Chkd. KK Checked ____ X-Sec. No. ____
Date 1-8-54 Date ____
Notes ____ Date ____
Survey of ____
Survey by ____
Indexed ____

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	72+00 -N-
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		15.0 / 14.1	14.4	4.1	10.3	888
22	B&W	10:16	14.0 / 13.6	13.3	4.1	9.2	862
23	R		12.0 / 10.0	10.7	4.1	6.6	818
24	Y		13.1 / 12.9	13.0	4.1	8.9	844
25	B&W	10:18	12.8 / 11.0	11.6	4.1	7.5	835
26	R		11.2 / 10.2	10.5	4.1	6.4	810
27	Y		10.3 / 9.1	9.5	4.1	5.4	798
28	B&W	10:20	10.1 / 8.0	8.7	4.1	4.6	782
29	R						
30	Y						
31	B&W						
32	R						
33	Y						
34	B&W						
35	R						
36	Y						
37	B&W						
38	R						
39	Y						
40	B&W						

BOAT 72+00N

76L298 307 4-50

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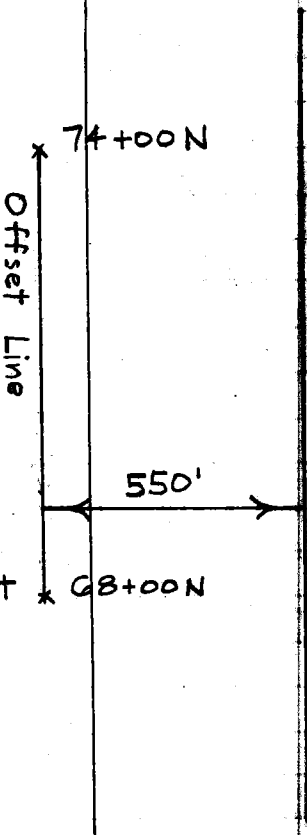
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. B.	H. I.	F. S.	ELEV.	RANGE 74+00N	
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
74+00 N (550' offset)	68+00 N (550' offset)	1	B&W	10:29	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	10:31	90°00'		Range gun at 74+00 N
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	10:33	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	10:34	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	10:36	90°00'		
		14	R		90°00'		Sight on cut-in gun at 68+00 N
		15	Y		90°00'		
		16	B&W	10:37	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	10:39	90°00'		
		20	R		90°00'		



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1888 Pg. 43

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1888 Pg. 124 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No. X-Sec.
Survey by FHB Notes CEM 10 15 53 Notes Chkd. Checked
Indexed Date Date Date No.

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Her. Ang.	RANGE	74+00N Remarks
		21	Y		90° 00'		
		22	B&W	10:41	90° 00'		
		23	R		90° 00'		
		24	Y		90° 00'		
74+00 N	68+00 N	25	B&W	10:43	90° 00'		
		26	R		90° 00'		
		27	Y		90° 00'		
		28	B&W	10:45	90° 00'		
		29	R		90° 00'		
RANGE 74+00N							

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

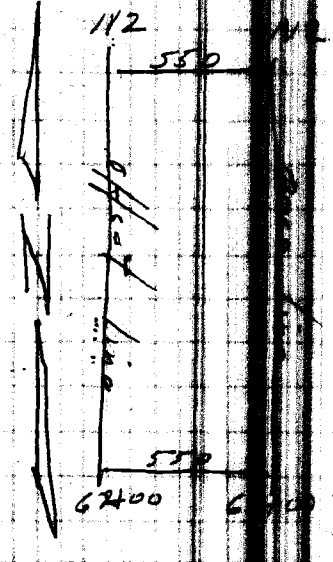
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
68+00	N2 550 off	1	B/W	1029	68° 18		
		2	R		66° 13		
		3	Y		63° 31		
		4	B/W	1030	60° 11		
		5	R		57° 12		
		6	Y		54° 36		
		7	B/W	1033	52° 01		
		8	R		49° 54		
		9	Y		48° 08		
		10	B/W	1034	45° 38		
		11	R		43° 40		
		12	Y		41° 41		
		13	B/W	1035	39° 45		
		14	R		37° 38		
		15	Y		35° 08		
		16	B/W	1037	33° 40		
		17	R		34° 45 *		
		18	Y		31° 13		
		19	B/W	1039	29° 36		
		20	R		30° 39		

15
Cut in 74+00

Note
Inst on 550 offset



Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1888 Pg. 125
No. Date Date Survey of
No. Date Date Map No. Indexed Date

76L298 307 4-50

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16

CUT IN 74+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks
68+00	N2	21	Y		29° 39		
		22	B/W	10 40	27° 12		
		23	R		26° 05		
		34	Y		28° 12		
		25	B/W	10 42	24° 54		
		26	R		23° 20		
		27	Y		23° 59	*	
		28	B/W	10 44	21° 44		
		29	R		22° 36	*	

CUT-IN 74+00 N

F. B. 1888 Pg. 126
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F H B Notes Checked X-Sec.
Indexed Date 11/15/55 Notes Chkd. Date No.

76L298 307 10-51

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	74700	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	10:30	31.0 / 27.5 / 29.1	30.0	4.2	25.8	2059
2	R		27.9 / 29.0	28.3	4.2	24.1	1912
3	Y		26.7 / 26.1	27.5	4.2	23.3	1754
4	B+W	10:31	25.2 / 25.2	25.5	4.2	21.3	1598
5	R		24.8 / 24.5	24.9	4.2	20.7	1481
6	Y		23.4 / 23.8	23.8	4.2	19.6	1394
7	B+W	10:33	22.7 / 23.3	23.1	4.2	18.9	1319
8	R		22.0 / 23.1	22.4	4.2	18.2	1263
9	Y		22.7 / 22.8	22.8	4.2	18.6	1220
10	B+W	10:34	21.2 / 22.2	21.7	4.2	17.5	1164
11	R		21.0 / 22.0	21.4	4.2	17.2	1124
12	Y		20.0 / 21.2	20.7	4.2	16.5	1085
13	B+W		19.6 / 19.9	20.1	4.2	15.9	1049
14	R		18.4 / 18.9	18.9	4.2	14.7	1013
15	Y		18.0 / 18.0	18.3	4.2	14.1	972
16	B+W	10:36	16.0 / 18.6	16.7	4.2	12.5	950
17	R		17.0 / 16.5	17.5	4.2	13.3	966
18	Y		15.5 / 15.0	15.8	4.2	11.6	914
19	B+W	10:39	14.0 / 16.4	14.3	4.2	10.1	891
20	R		15.0	15.5	4.2	11.3	916

BOAT 1777-XX

Profile No. ____ Notes Red CEM Plotted ____ Job No. 2X2 Division No. ____ F.B. 1298 Pg. 127

Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	74+00 N-
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		15.6 14.0	14.5	4.2	10.3	892
22	B&W	10:40	14.5 13.0	13.5	4.2	9.3	865
23	R		13.9 12.0	12.6	4.2	8.4	844
24	Y		15.0 13.0	13.7	4.2	9.5	872
25	B&W	10:42	12.8 11.0	11.6	4.2	7.4	828
26	R		10.9 9.8	10.2	4.2	6.0	809
27	Y		11.6 10.3	10.7	4.2	6.5	817
28	B&W	10:45	9.4 7.9	8.4	4.2	4.2	790
29	R		10.6 9.7	10.0	4.2	5.8	800
30	Y						
31	B&W						
32	R						
33	Y						
34	B&W						
35	R						
36	Y						
37	B&W						
38	R						
39	Y						
40	B&W						

BOAT 74+00N

Waves Confused

F.B. 1888 PG. 128 Job No. Division No. Notes Red. CEM Plotted Profile
Survey of Date 12/17/53 Date No. X-Sec.
Survey by Notes Checked
Indexed Date 1-6-54 Date No.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 76+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
	1	B&W	10:55	90°00'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	10:57	90°00'	Range gun at 76+00 N
	5	R		90°00'	
	6	Y		90°00'	
	7	B&W	10:59	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
	10	B&W	11:01	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B&W	11:02	90°00'	
	14	R		90°00'	Sight on cut-in gun at 70+00 N
	15	Y		90°00'	
	16	B&W	11:04	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	11:06	90°00'	
	20	R		90°00'	

76+00 N (550' offset)

70+00 N (550 offset)

Offset Line

550'

Base Line

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1888 Pg. 129

F. B. 1888 Pg. 130 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No.
Survey by EHB Notes GEM 10/15/53 Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION ~~Inst. Sight~~ At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	RANGE Remarks	76+00 N
		21	Y		90°00'		
		22	B&W	11:08	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
76+00 N	70+00 N	25	B&W	11:10	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
RANGE 76+00 N							

76L298 307 4-50

[redacted] PLEASE RETURN TO
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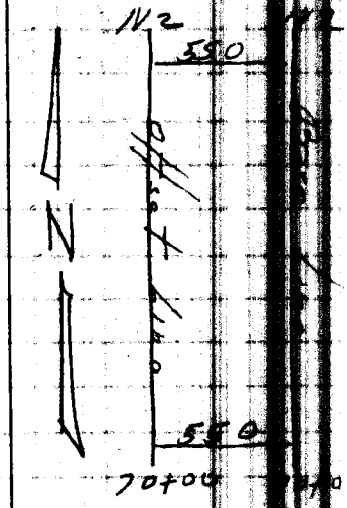
17

cutin 76+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
70+00	N2	1	B/W	10 54	68°41		
	550 off	2	R		65°46		Not
		3	Y		62°56		Inct on 550
		4	B/W	10 57	59°43		
		5	R		57°26		
		6	Y		54°36		
		7	B/W	10 59	52°35		
		8	R		50°38		
		9	Y		47°41		
		10	B/W	11 00	45°25		
		11	R		43°37		
		12	Y		41°36		
		13	B/W	11 02	39°19		
		14	R		35°18		
		15	Y		33°09		
		16	B/W	11 03	33°50		
		17	R		31°40		
		18	Y		29°15		
		19	B/W	11 05	28°18		
		20	R		26°55		



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1888 Pg. 131

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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7P

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
70+00	1V2	21	Y		25° 41	
		22	B/W	11 07	23° 14	
		23	R		25° 10	
		24	Y		24° 45	
		25	B/W	11 10	22° 57	
		26	R		21° 26	
		27	Y		19° 50	

CUT-IN 76+00

CUT-IN 76+00

F. B. 1888 Pg. 132 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Bezak Erosion Studies Date Date No.
Survey by F.H.B. Notes JC Notes Chkd. Checked X-Sec.
Indexed Date 10/15/53 Date Date No.

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Boat	76+00	N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B&W	10:55	31.1 29.9	30.3	4.3	26.0	2089	
2	R		29.2 28.0	28.4	4.3	24.1	1883	
3	Y		28.5 27.0	27.5	4.3	23.2	1724	
4	B&W	10:58	26.1 25.0	25.4	4.3	21.1	1578	
5	R		25.1 24.0	24.4	4.3	20.1	1490	
6	Y		25.6 23.1	23.9	4.3	19.6	1394	
7	B&W	10 59	24.0 23.0	23.3	4.3	19.0	1335	
8	R		23.7 22.0	22.6	4.3	18.3	1281	
9	Y		23.7 22.0	22.6	4.3	18.3	1210	
10	B&W	11.01	22.0 21.3	21.5	4.3	17.2	1159	
11	R		23.0 20.6	21.4	4.3	17.1	1123	
12	Y		22.8 20.4	21.2	4.3	16.9	1083	
13	B&W	11:02	20.9 19.0	19.6	4.3	15.3	1041	
14	R		19.0 18.0	18.3	4.3	14.0	975	
15	Y		18.7 16.0	16.6	4.3	12.3	942	
16	B&W	11:04	18.6 16.9	17.5	4.3	13.2	953	
17	R		17.5 15.9	16.4	4.4	12.0	920	
18	Y		16.0 14.7	15.1	4.4	10.7	886	
19	B&W	11:06	15.0 13.0	13.7	4.4	9.3	873	
20	R		14.0 12.0	12.7	4.4	8.3	855	

Profile No. ____ Date ____ Notes Red CEM Plotted ____ Date ____ Job No. ____ Division No. ____ Survey of ____

No. ____ Date 1-6-54 Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 Pg. 133

BOAT 76+00

76L298 307 10-51

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	76+00 N

#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks
21	Y		13.8 11.6	12.1	4.4	7.7	838
22	B&W	11.08	11.7 14.0	10.6	4.4	6.2	808
23	R		13.2 11.0	11.7?	4.4	7.3?	832
24	Y		12.5 11.0	11.5	4.4	7.1	816
25	B&W	11.10	12.0 9.2	10.1	4.4	5.7	804
26	R		9.8 7.0	7.9 ~~7.6~~	4.4	3.5 ~~3.2~~	786
27	Y		8.9 6.5	7.3	4.4	2.9	766
28	B&W					
29	R					
30	Y					
31	B&W					
32	R					
33	Y					
34	B&W					
35	R					
36	Y					
37	B&W					
38	R					
39	Y					
40	B&W					

BOAT 76+00N

F.B. 1888 PG. 134

Job No. ____ Division No. ____ Notes Red. CEM Date 12/17/53 Plotted ____ Date ____ No. ____ Profile

Survey of ____ Survey by ____ Notes ____ Date ____ Notes Chkd. KK Date 1-6-54 Checked ____ Date ____ No. ____ X-Sec.

Indexed ____

76L298 307 4-50

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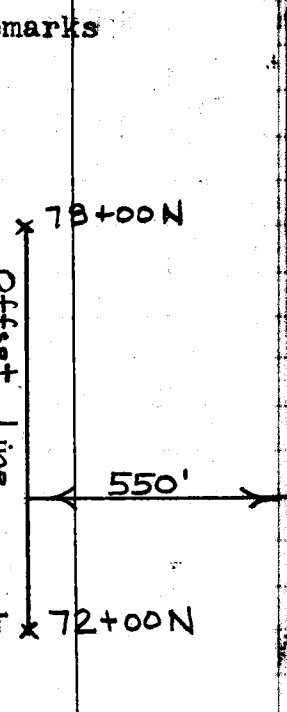
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 78+00N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
	1	B&W	11:18	90°00'	
	2	R		90°00'	
	3	Y		90°00'	
	4	B&W	11:21	90°00'	Range gun at 78+00N
	5	R		90°00'	
	6	Y		90°00'	
	7	B&W	11:23	90°00'	
	8	R		90°00'	
	9	Y		90°00'	
78+00 N (550' offset) / 72+00 N (550' offset)	10	B&W	11:24	90°00'	
	11	R		90°00'	
	12	Y		90°00'	
	13	B&W	11:25	90°00'	Sight on cut-in gun at 72+00N
	14	R		90°00'	
	15	Y		90°00'	
	16	B&W	11:27	90°00'	
	17	R		90°00'	
	18	Y		90°00'	
	19	B&W	11:28	90°00'	
	20	R		90°00'	



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1888 Pg. 135

No. ____ Date ____ Date ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

Survey of [illegible]

76L298 307 4-50

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F. B. 1888 Pg. 136 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No.
Survey by EHB Notes CEM 10/15/53 Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	78+00N
~~Inst. Sight~~ At	On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B&W	11:29	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
78+00N	72+00N	25	B&W	11:32	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B&W	11:33	90°00'		
		29	R		90°00'		
RANGE 78+00N							

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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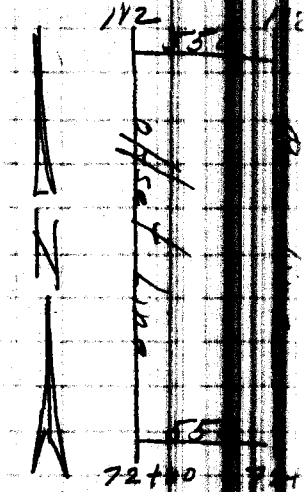
Do not extend notes this side of this line.

19

cut in 78+00

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
72+00	N2	1	B/W	11 18	69°25		
	550 off	2	R		66°48		Not
		3	Y		63°59		Inst on 550
		4	B/W	11 20	60°41		
		5	R		57°31		
		6	Y		54°34		
		7	B/W	11 22	52°01		
		8	R		50°08		
		9	Y		48°21		
		10	B/W	11 24	46°42		
		11	R		44°39		
		12	Y		42°48		
		13	B/W	11 25	40°44		
		14	R		38°26		
		15	Y		36°26		
		16	B/W	11 26	35°07		
		17	R		33°55		
		18	Y		32°07		
		19	B/W	11 27	30°42		
		20	R		29°10		



CST-1 N 78+00 N

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of
No. Date Date Map No. Indexed Date
F. B. Pg. 137

76L298 307 4-50

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Do not extend notes this side of this line.

270

CUT-IN 78+00

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On #	Color	Time Hor.	Ang.		
72+00 N2	21	Y	[illegible]	31° 08	
	22	B/W	11 29	28° 56	
	23	R		27° 32	
	24	Y		26° 59	
	25	B/W	11 31	24° 58	
	26	R		24° 02	
	27	Y		22° 28	
	28	B/W	11 33	21° 19	
	29	R		21° 13	

CUT-IN 78+00 N

F. B. 1288 Pg. 138 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E H B Notes JS Notes Chkd. Checked X-Sec.
Indexed Date 10/15/53 Date Date No.

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	78+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	11:18	32.0 30.1	30.7	4.4	26.3	2148
2	R		30.1 28.1	28.8	4.4	24.4	1950
3	Y		28.1 27.0	27.4	4.4	23.0	1779
4	B+W	11:20	27.6 26.0	26.5	4.4	22.1	1618
5	R		26.0 24.9	25.3	4.4	20.9	1491
6	Y		24.8 23.6	24.0	4.4	19.6	1393
7	B+W	11:22	24.0 22.4	22.9	4.4	18.5	1319
8	R		23.6 22.0	22.5	4.5	18.0	1268
9	Y		22.7 21.6	22.0	4.5	17.5	1224
10	B+W	11:23	23.0 22.0	22.3	4.5	17.8	1186
11	R		22.2 21.2	21.5	4.5	17.0	1144
12	Y		22.1 21.0	21.4	4.5	16.9	1105
13	B+W	11:25	21.9 21.0	21.3	4.5	16.8	1066
14	R		20.6 19.7	20.0	4.5	15.5	1026
15	Y		20.0 18.0	18.7	4.5	14.2	994
16	B+W	11:27	19.3 17.7	18.2	4.5	13.7	972
17	R		18.1 17.0	17.4	4.5	12.9	954
18	Y		17.6 16.0	16.5	4.5	12.0	927
19	B+W	11:28	16.7 15.7	16.0	4.5	11.5	906
20	R		16.1 14.0	14.7	4.5	10.2	885

BOAT 78+00

Profile No. ____ Date ____ Notes Red CEM Plotted ____ Date ____ Job No. [illegible] Division No. ____ Survey of ____

No. ____ Date 1-6-54 Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 PG. 139

76L298 307 10-51

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F.B. 188 PG. 140 Job No. Division No. Notes Red CEM Plotted Date 12/17/53 Date Notes Chkd. KK Checked Date 1-6-54 Date Profile No. X-Sec. No.

Survey of
Survey by Notes
Indexed Date

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	78+00 N
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21 Y		17.0 16.0	16.3	4.5	11.8	912
22 B+W	11:29	15.6 14.5	14.9	4.5	10.4	882
23 R		14.1 13.0	13.4	4.5	8.9	863
24 Y		13.7 12.1	12.6	4.5	8.1	856
25 B+W	11:32	12.9 11.0	11.6	4.5	7.1	830
26 R		11.5 10.3	10.7	4.5	6.2	818
27 Y		10.1 8.9	9.3	4.5	4.8	798
28 B+W	1133	9.0 7.0	7.7	4.5	3.2	784
29 R		5.0 6.6	7.1	4.5	2.6	783
30 Y						
31 B+W						
32 R						
33 Y						
34 B+W						
35 R						
36 Y						
37 B+W						
38 R						
39 Y						
40 B+W						

BOAT 78+00N

76F3095 247 4-53

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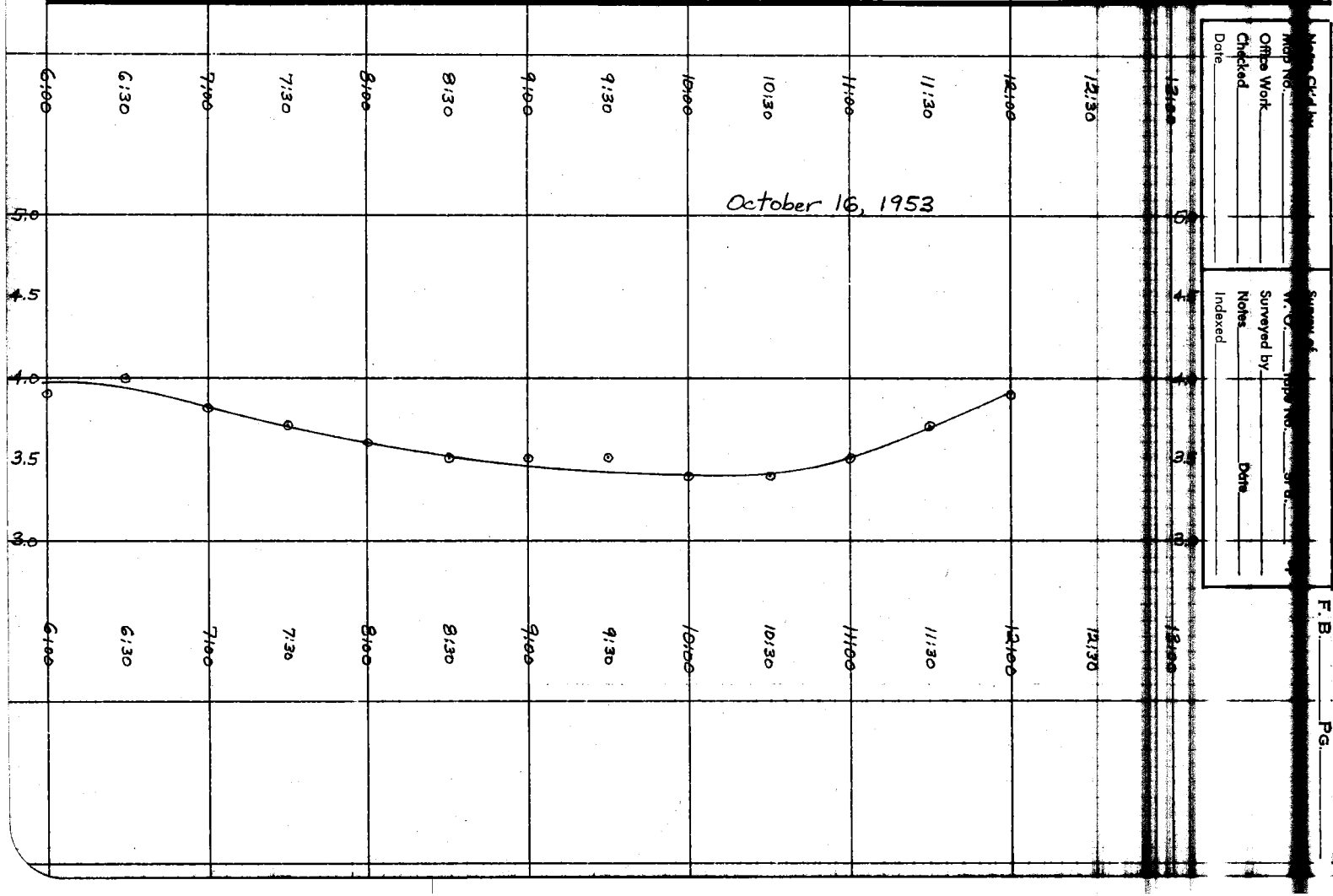

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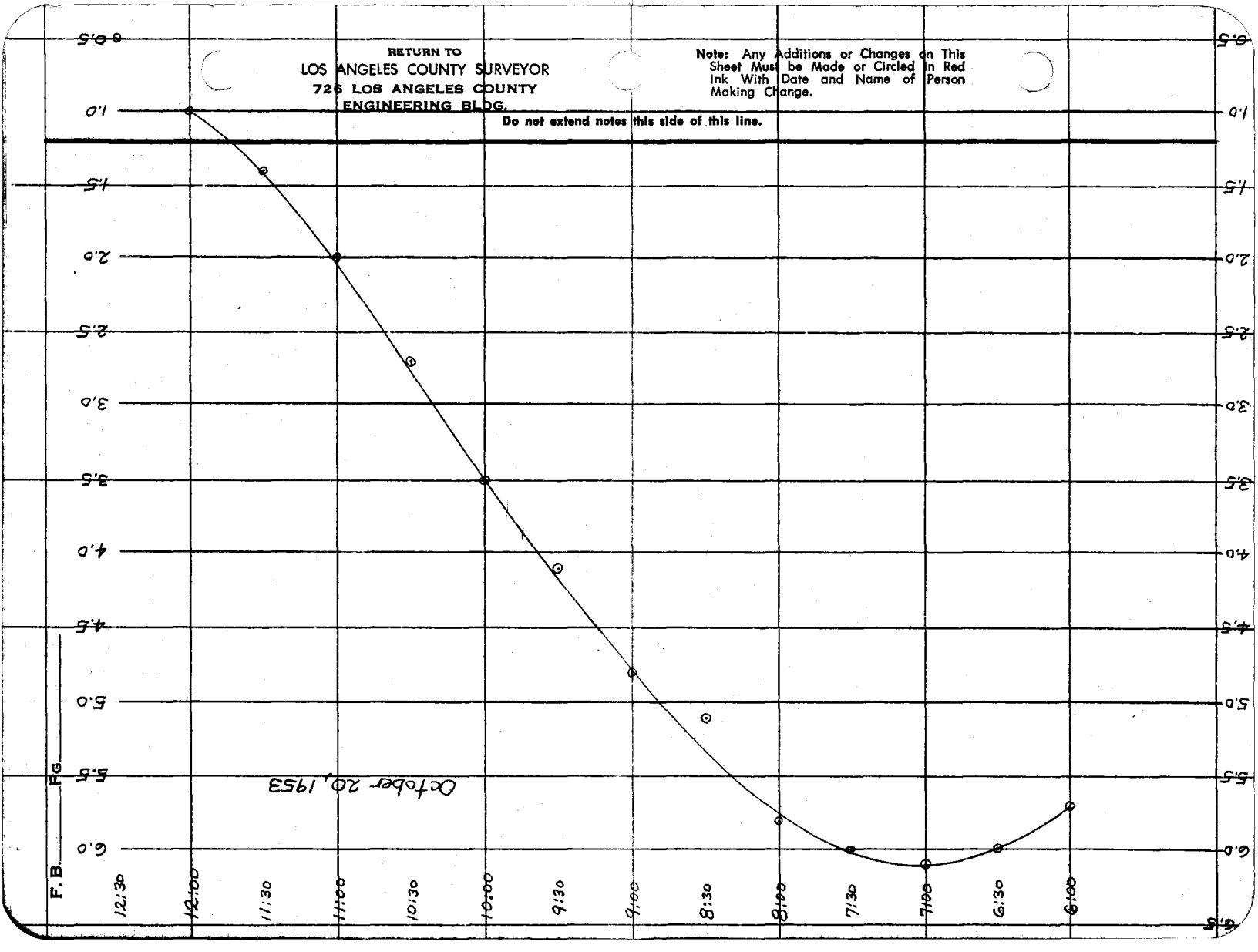

F. B. [illegible] PG. [illegible]

Map No.
Office Work
Checked
Date

W. O. Tape No. Sr'd.
Surveyed by
Notes Date
Indexed

TIDE GAGE

STANDARD TIME OCT 16 1953

HOUR	TIDE
6:00	3.9
6:30	4.0
7:00	3.8
7:30	3.7
8:00	3.6
8:30	3.5
9:00	3.5
9:30	3.5
10:00	3.4
10:30	3.4
11:00	3.5
11:30	3.7
12:00	3.9

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

F. B. 1888 PG. 164

TIDE GAGE

STANDARD TIME OCT 20 1953

HOUR	TIME
6:00	5.7
6:30	6.0
7:00	6.1
7:30	6.0
8:00	5.8
8:30	5.1
9:00	4.8
9:30	4.1
10:00	3.5
10:30	2.7
11:00	2.0
11:30	1.4
12:00	1.0
12:30	0.5
1:00	0.2

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76L298 307 4-50

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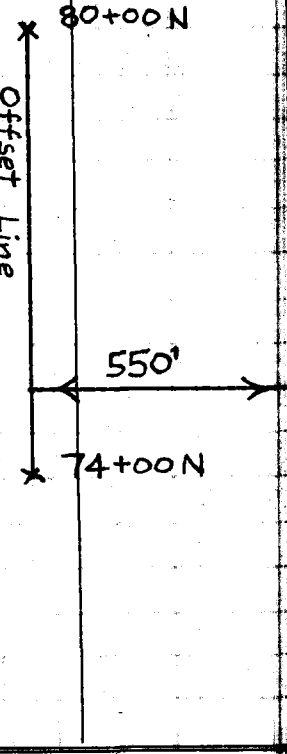
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	80+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	B&W	8:37	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	8:40	90°00'	Range gun at	80+00N
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	8:43	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
80+00N	74+00N	10	B&W	8:44	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	8:46	90°00'		
		14	R		90°00'	Sight on cut-in gun at	74+00N
		15	Y		90°00'		
		16	B&W	8:47	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	8:49	90°00'		
		20	R		90°00'		

Offset Line

Base Line

550'



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1888 PG. 1 43

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 1888 Pg. 144 Job No. 8412 Division No. Notes Red Plotted Profile No.
Survey of Beach Erosion Study Date Date X-Sec. No.
Survey by FHB Notes CEM 10/16/53 Notes Chkd Checked
Indexed Date Date Date

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	80+00 N
Inst. At	Sight On	#	Color	Time	Hor. Rng.	Remarks	
		21	Y		90° 00'		
		22	B & W	8:50	90° 00'		
		23	R		90° 00'		
		24	Y		90° 00'		
		25	B & W	8:52	90° 00'		
		26	R		90° 00'		
		27	Y		90° 00'		
		28	B & W	8:55	90° 00'		
RANGE 80+00 N	80+00 N / 74+00 N						

76L298 307 4-50

[redacted] RETURN TO
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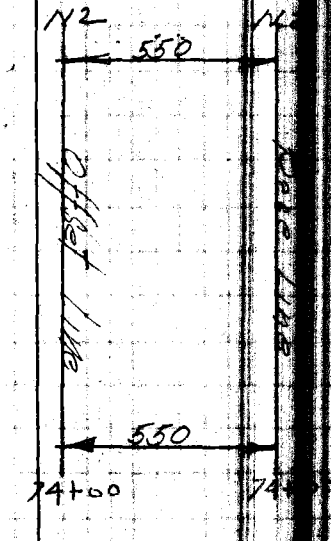
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.
74+00 N	N2 550 off	1	B/W	8 37	70° 15
		2	R		63° 34
		3	Y		66° 20
		4	B/W	8 40	63° 56
		5	R		60° 33
		6	Y		57° 22
		7	B/W	8 43	54° 44
		8	R		52° 35
		9	Y		50° 03
		10	B/W	8 45	47° 36
		11	R		45° 55
		12	Y		43° 52
		13	B/W	8 46	42° 03
		14	R		40° 19
		15	Y		38° 49
		16	B/W	8 48	37° 02
		17	R		35° 22
		18	Y		33° 42
		19	B/W	8 49	31° 13
		20	R		33° 06

Remarks

cut in 80+

Note
Inst on 550 off



Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1888 Pg. 145

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line.

2

CUT IN 80+00

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
	N2	21	Y		31 15	
		22	B/W	8 50	29 39	
		23	R		28 9	
		24	Y		26 17	
		25	B/W	8 52	25 37	
		26	R		24 34	
		27	Y		22 52	
		28	B/W	8 55	22 18	

OUT-IN 80+00

F. B. 1888 Pg. 146 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Bazin EROSION Studies Date Date No. X-Sec.
Survey by F H B Notes JS Notes Chkd. Checked
Indexed Date 10/16/53 Date Date No.

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	80+00-N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	8:38	31.1 30.5	30.7	3.5	27.2	2220
2	R		30.0 29.2	29.5	3.5	26.0	2080
3	Y		28.6 27.8	28.1	3.5	24.6	1920
4	B+W	8:40	27.6 26.0	26.5	3.5	23.0	1777
5	R		25.8 24.9	25.2	3.5	21.7	1611
6	Y		25.0 23.0	23.7	3.5	20.2	1523
7	B+W	8:43	24.0 22.8	23.2	3.5	19.7	1396
8	R		23.6 21.8	22.4	3.5	18.9	1333
9	Y		22.2 21.6	21.8	3.5	18.3	1266
10	B+W	8:45	21.7 20.6	21.0	3.5	17.5	1206
11	R		21.8 20.5	20.9	3.5	17.4	1169
12	Y		21.7 20.0	20.6	3.5	17.1	1127
13	B+W	8:46	21.0 20.1	20.4	3.5	16.9	1091
14	R		20.4 19.3	19.7	3.5	16.2	1059
15			19.8 18.9	19.2	3.5	15.7	1033
16	B+W	8:48	19.9 18.1	18.7	3.5	15.2	1003
17	R		19.0 17.2	17.8	3.5	14.3	975
18	Y		17.3 16.0	16.4	3.5	12.9	950
19	B+W	8:50	15.5 14.1	14.6	3.5	11.1	914
20	R		17.3 15.0	15.8	3.5	12.3	951

BOAT 80+00-N

Profile Notes Red CEM Plotted ____ Job No. ____ Division No. ____ F. B. ____ Pg. 147

No. ____ Date 12/18/53 Date ____ Survey of ____

No. ____ Date 1-6-54 Date ____ Map No. ____ Indexed ____ Date ____

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	80+00 N
#	Color Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y	15.3 13.8	14.3 ?	3.5	10.8 ?	914
22	B&W	8:51 15.0 13.1	13.7	3.5	10.2	892
23	R	13.8 12.2	12.7	3.5	9.2	874
24	Y	12.3 11.0	11.4	3.5	7.9	854
25	B&W	8:52 11.2 9.9	10.3	3.5	6.8	838
26	R	10.9 9.0	9.6	3.5	6.1	824
27	Y	10.0 9.0	9.3	3.5	5.8	803
28	B&W	8:55 9.1 8.0	8.4	3.5	4.9	796
29	R					
30	Y					
31	B&W					
32	R					
33	Y					
34	B&W					
35	R					
36	Y					
37	B&W					
38	R					
39	Y					
40	B&W					

BOAT 80+00N

Job No. ____ Division No. ____ Notes Red. CEM Plotted ____ Profile ____
Survey of ____ Date 12/18/53 Date ____ No. ____
Survey by ____ Notes 10/16/53 Notes Chkd. KK Checked ____ X-Sec. ____
Indexed ____ Date ____ Date 1-6-54 Date ____ No. ____

F. S. 1888 Pg. 148

76L298 307 10-51

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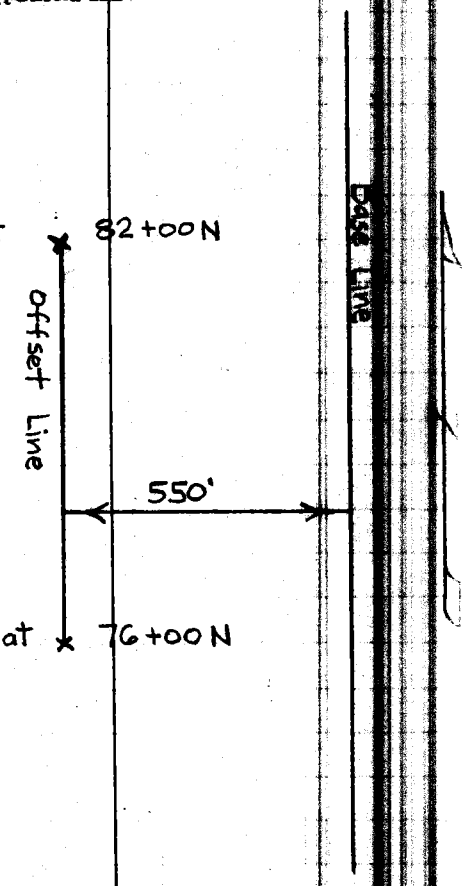
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	82+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
82+00 N (550' offset)	76+00 N (550' offset)	1	B&W	9:05	90°00'		
		2	R		90°00'		
		3	Y		90°07'		
		4	B&W	9:07	90°00'		
		5	R		90°00'	Range gun at	82+00 N
		6	Y		90°00'		
		7	B&W	9:09	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	9:11	90°00'		
		11	R		90°00'		
		12	Y		89°48'		
		13	B&W	9:12	90°00'		
		14	R		90°00'	Sight on cut-in gun at	76+00 N
		15	Y		90°00'		
		16	B&W	9:14	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	9:16	90°00'		
		20	R		90°00'		



Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1888 Pg. 1/49

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 10-51

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ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	82+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B&W	9:18	90°00'		
		23	R		90°00'		
		24	Y		89°24'		
		25	B&W	9:20	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B&W	9:22	90°00'		
RANGE 82+00N	82+00N						
	76+00N						

F.B. 1888 PG. 150 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____

Survey of Beach Erosion Study Date ____ Date ____ No. ____

Survey by FHB Notes CEM 10/16/53 Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 4-50

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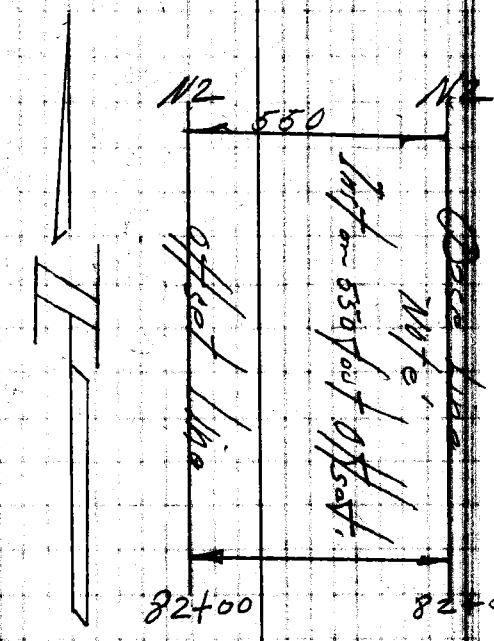
3

CATIN 82+00

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
76+00	N2	1	B/W	9 05	69° 59
		2	R		67° 35
		3	Y		65° 08
		4	B/W	9 07	63° 22
		5	R		61° 02
		6	Y		58° 29
		7	B/W	9 09	55° 22
		8	R		52° 39
		9	Y		49° 47
		10	B/W	9 11	47° 13
		11	R		44° 19
		12	Y		41° 13
		13	B/W	9 13	39° 05
		14	R		36° 34
		15	Y		35° 09
		16	B/W	9 14	32° 55
		17	R		34° 34 *
		18	Y		34° 21
		19	B/W	9 16	33° 20
		20	R		31° 46

Remarks



Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of
No. Date Date Map No. Indexed Date
F. B. 1888 Pg. 151

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	cut in 82+00
67+00	N2	21	Y		31° 24		
		22	B/W	9 18	30° 40		
		23	R		29 15		
		24	Y		25° 52		
		25	B/W	9 20	26° 39		
		26	R		23° 21		
		27	Y		21° 30		
		28	B/W	9 22	21 14		

CUT-IN 82+00N

Profile No. X-Sec. No.
Plotted Date
Notes Red. Date
Notes Chkd. Date
Job No. 8412 Division No. EPISON Studio
Survey of Bezel
Survey by FHB Notes JS
Indexed Date 10/16/53
Pg. 152
1888

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		82+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B+W	9:05	30.9 / 30.2	30.4	3.4	27.0	2199	
2	R		29.8 / 28.0	28.6	3.4	25.2	2011	
3	Y		28.0 / 27.5	27.7	3.4	24.3	1845	
4	B+W	9:07	27.1 / 26.2	26.5	3.4	23.1	1748	
5	R		25.9 / 25.0	25.3	3.4	21.9	1635	
6	Y		25.2 / 24.0	24.4	3.4	21.0	1529	
7	B+W	9:09	24.2 / 23.0	23.4	3.4	20.0	1418	
8	R		23.3 / 22.1	22.5	3.4	19.1	1336	
9	Y		22.5 / 21.4	21.8	3.4	18.4	1259	
10	B+W	9:11	22.0 / 21.0	21.3	3.4	17.9	1198	
11	R		22.0 / 20.3	20.9	3.4	17.5	1135	
12	Y		21.1 / 20.0	20.4	3.4	17.0	1076	
13	B+W	9:13	19.9 / 19.0	19.3	3.4	15.9	1038	
14	R		18.9 / 18.1	18.4	3.4	15.0	995	
15	Y		17.7 / 17.0	17.2	3.4	13.8	972	
16	B+W	9:14	16.2 / 15.1	15.5	3.4	12.1	938	
17	R		17.2 / 16.8	16.9	3.4	13.5	964	
18	Y		17.8 / 16.4	16.9	3.4	13.5	960	
19	B+W	9:16	17.7 / 15.0	15.9	3.4	12.5	944	
20	R		15.0 / 14.0	14.3	3.4	10.9	922	

Profile Notes Red. CEM Plotted ____ Job No. 1412 Division No. ____ F. B. [illegible] Pg. 153

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	82+00 -N-
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		15.1 14.0	14.4	3.4	11.0	916
22	B+W	9:18	14.9 13.7	14.1	3.4	10.7	906
23	R		15.0 12.8	13.5	3.4	10.1	886
24	Y		11.2 10.3	10.6	3.4	7.2	841
25	B+W	9:20	11.5 10.3	10.7	3.4	7.3	844
26	R		10.4 9.0	9.5	3.4	6.1	809
27	Y		8.2 7.0	7.4	3.4	4.0	790
28	B+W	9:22	6.8 6.1	6.3	3.4	2.9	739
29	R						
30	Y						
31	B+W						
32	R						
33	Y						
34	B+W						
35	R						
36	Y						
37	B+W						
38	R						
39	Y						
40	B+W						

BOAT 82+00 N

F. S. 888 Pg. 154

Job No. ____ Division No. ____ Notes Red. CEM Date 12/18/53 Plotted ____ Date ____ Profile ____ No. ____

Survey of ____ Notes ____ Checked ____ Date ____ X-Sec. ____ No. ____

Survey by ____ Date ____

Indexed ____

76L298 307 10-51

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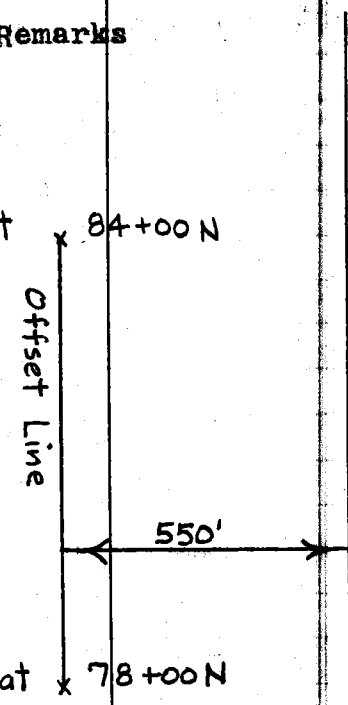
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	84+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
84+00 N (550' Offset)	78+00 N (550' Offset)	1	B&W	9:32	90° 00'		
		2	R		90° 00'		
		3	Y		90° 00'		
		4	B&W	9:34	90° 00'	Range gun at 84+00 N	
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B&W	9:35	90° 00'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B&W	9:37	90° 00'		
		11	R		90° 00'		
		12	Y		90° 00'		
		13	B&W	9:39	90° 00'		
		14	R		90° 00'	Sight on cut-in gun at 78+00 N	
		15	Y		90° 00'		
		16	B&W	9:41	90° 00'		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B&W	9:44	90° 00'		
		20	R		90° 00'		



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1888 PG. 155

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

RANGE R4+00 N

F.B. 1888 PG 156 Job No 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Study Date Date No.

Survey by FHB Notes CEM 10/16/53 Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

RANGE 84+00N

STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	Remarks
84+00 N						
78+00 N						
Inst. sight At OH						
	#	Color	Time	Hor. Ang.		
	21	Y		90°00'		
	22	B&W	9:46	90°00'		
	23	R		90°00'		

76L298 307 10-51

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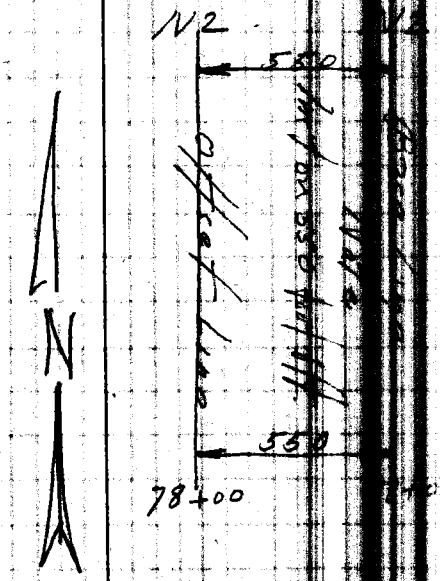
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
78+00	N2	1	B/W	9 31	68° 11		
		2	R		65° 38		
		3	Y		63° 07		
		4	B/W	9 34	60° 13		
		5	R		57° 48		
		6	Y		55° 02		
		7	B/W	9 35	52° 28		
		8	R		49° 26		
		9	Y		46° 41		
		10	B/W	9 37	44° 31		
		11	R		42° 21		
		12	Y		40° 20		
		13	B/W	9 39	38° 20		
		14	R		36° 39		
		15	Y		33° 19		
		16	B/W	9 41	31° 01		
		17	R		32° 35 *		
		18	Y		30° 27		
		19	B/W	9 43	28° 16		
		20	R		26° 54		

CUT IN 84+0



Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of ____ Map No. ____ Indexed ____ Date ____

F. B. 1888 Pg. 152

F. B. 1888 Pg. 158

Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date _____ Date _____ No. _____

Survey by F H B Notes JS Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date 10/16/53 Date _____ Date _____ No. _____

CUT-IN 84+00N

STATION	B.S.	H.I.	F.S.	ELEV.		
~~Intersection~~ At On	#	~~Color~~	Time	Hor. Ang.		Remarks
76+00 N2	21	Y		25°34		
	22	B/W	9 46	24°16		
	23	R		22°59		
	21					
	25					

CUT-IN 84+00

5

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	S. B.	H. I.	F. S.	ELEV.	BOAT	84+00
#	Color	Time	Depth	Bottom	Tide	Adj. Depth	Remarks
1.	B&W	9.30	29.5 / 28.6	28.9	3.4	25.5	2040
2.	R		28.3 / 27.1	27.5	3.4	24.1	1874
3.	Y		26.6 / 25.8	26.1	3.4	22.7	1733
4.	B&W	9:33	25.9 / 24.2	24.8	3.4	21.4	1600
5	R		24.3 / 23.7	23.9	3.4	20.5	1502
6.	Y		23.6 / 22.7	23.0	3.4	19.6	1408
7.	B&W	9:35	23.1 / 22.0	22.4	3.4	19.0	1331
8	R		22.4 / 21.3	21.7	3.4	18.3	1250
9.	Y		22.1 / 20.0	20.7	3.4	17.3	1186
10	B&W	9:37	23.3 / 19.9	21.0	3.4	17.6	1140
11	R		20.7 / 20.0	20.2	3.4	16.8	1096
12	Y		20.7 / 19.0	19.6	3.4	16.2	1059
13	B&W	9:39	20.6 / 18.5	19.2	3.4	15.8	1025
14	R		19.6 / 17.5	18.2	3.4	14.8	996
15	Y		17.1 / 16.2	16.5	3.4	13.1	944
16	B&W	9:41	16.1 / 14.2	14.8	3.4	11.4	911
17	R		16.8 / 15.0	15.6	3.4	12.2	934
18	Y		14.8 / 14.0	14.3	3.4	10.9	904
19	B&W	9:43	13.2 / 12.3	12.6	3.4	9.2	873
20	R		12.0 / 11.0	11.3	3.4	7.9	855

Profile Notes Red CEM Plotted Job No. 8412 Division No.
No. Date 1-6-59 Date Survey of
No. Date 1-6-59 Date Map No. Indexed Date
F. B. 1878 Pg. 459

76L298 307 4-50

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F. B. 1888 PG. 160

Job No. ____ Division No. ____ Notes Red. CEM Plotted ____ Profile

Survey of ____ Date 12/18/53 Date ____ No. ____

Survey by ____ Notes ____ Notes Chkd. KK Checked ____ X-Sec.

Indexed ____ Date ____ Date 1-6-54 Date ____ No. ____

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		84+00-N-
# Color	Time	Depth	Bottom	Tide	Adj. Depth		Remarks
21 Y		10.8 / 10.0	10.3	3.4	6.9	837	
22 B+W	9:46	11.1 / 9.5	10.0	3.4	6.6	827	
23 R		9.8 / 8.2	8.7	3.4	5.3	804	
24 Y							
25 B+W							
26 R							
27 Y							
28 B+W							
29 R							
30 Y							
31 B+W							
32 R							
33 Y							
34 B+W							
35 R							
36 Y							
37 B+W							
38 R							
39 Y							
40 B+W							

BOAT 84+00N

76L298 307 10-51

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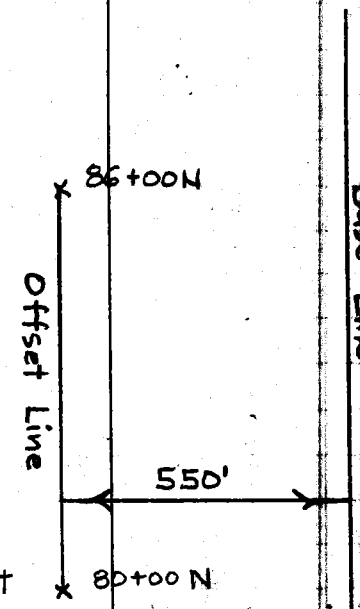
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	86+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
86+00 N (550' offset)	80+00 N (550' offset)	1	B&W	9:56	90° 00'		
		2	R		90° 00'		
		3	Y		90° 00'		
		4	B&W	9:58	90° 00'	Range gun at	86+00N
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B&W	10:00	90° 00'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B&W	10:02	90° 00'		
		11	R		90° 00'		
		12	Y		90° 00'		
		13	B&W	10:08	90° 00'	Sight on cut-in gun at	80+00 N
		14	R		90° 00'		
		15	Y		90° 00'		
		16	B&W	10:10	90° 00'		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B&W	10:12	90° 00'		
		20	R		90° 00'		



Profile Notes Red ___ Plotted ___ Job No. 8412 Division No. ___ F.B. 1888 PG. 461

No. ___ Date ___ Date ___ Survey of ___

No. ___ Date ___ Date ___ Map No. ___ Indexed ___ Date ___

Range 86+00 N

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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Do not extend notes this side of this line.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. Date Notes Chkd. Date

Division No. Job No. 8412 Notes CEM 10/16/53 Date

Survey of Beach Erosion Study

Survey by FHB Indexed

F.B. 1888 PG 62

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	86+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B&W	10:13	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B&W	10:14	90°00'		
86+00 N	80+00 N	26	R		90°00'		
		27	Y		90°00'		
		28	B&W	10:16	90°00'		
		29	R		90°00'		
		30	Y		90°00'		
		31	B&W	10:17	90°00'		
		32	R		90°00'		
		33	Y		90°00'		
		34	B&W	10:18	90°00'		
		35	R		90°00'		
		36	Y		90°00'		

RANGE 86+00 N

76L29[illegible] 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

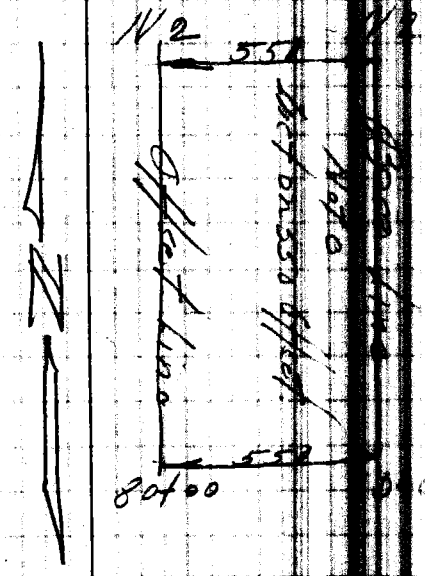
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

6

CUT IN 86+00

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	On	#	Color	Time	Hor. Ang.	
80+00	N2	1	B/W	9 56	67° 27	
		2	R		65° 33	
		3	Y		63° 48	
		4	B/W	9 58	62° 12	
		5	R		60° 06	
		6	Y		58° 34	
		7	B/W	10 00	56° 22	
		8	R		54° 23	
		9	Y		52° 45	
		10	B/W	10 02	50° 53	
		11	R		48° 48	
		12	Y		46° 13	
		13	B/W	10 08	51° 58	
		14	R		50° 08	
		15	Y		47° 52	
		16	B/W	10 10	46° 17	
		17	R		44° 46	
		18	Y		42° 15	
		19	B/W	10 12	39° 43	
		20	R		36° 28	



CUT-11,86+00

Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of ____ Map No. ____ Indexed ____ Date ____

F. B. 1888 Pg. 163

76L298 307 4-50

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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

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F. B. 1388 Pg. 164 Tab No. 2412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E. H. B. Notes Chkd. Checked X-Sec.
Indexed Date 10/16/53 Date Date No.

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
80+00	N2	21	Y		35°07	cut N 86+00
		22	B/W	10/13	32°59	
		23	R		32°24	
		24	Y		30°55	
		25	B/W	10/14	29°48	
		26	R		31°54	
		27	Y		29°46	
		28	B/W	10/15	28°28	
		29	R		27°50	
		30	Y		27°00	
		31	B/W	10/18	23°19	
		32	R		26°34	
		33	Y		25°57	
		34	B/W	10/20	24°17	
		35	R		25°46	
		36	Y		22°35	

CUT-IN 86+00

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	86+00
#	Color	Time	Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	9:56	30.1 28.6	29.1	3.4	25.7	1996
2	R		28.1 26.1	26.8 21.8	3.4	28.4 18.4	1870
3	Y		27.0 26.4	26.6	3.4	23.2	1770
4	B+W	9:58	27.0 26.0	26.3	3.4	22.9	1689
5	R		25.2 24.1	24.5	3.4	21.1	1595
6	Y		24.8 23.9	24.2	3.4	20.8	1531
7	B+W	9:59	23.7 23.0	23.2	3.4	19.8	1451
8	R		23.3 22.4	22.7	3.4	19.3	1387
9	Y		23.1 22.5	22.7	3.4	19.3	1339
10	B+W	10:02	23.3 21.7	22.2	3.4	18.8	1288
11	R		22.0 20.9	21.3	3.4	17.9	1235
12	Y		21.6 20.6	20.9	3.4	17.5	1176
13	B+W	10:08	23.0 21.2	21.8	3.4	18.4	1317
14	R		22.0 21.3	21.5	3.4	18.1	1269
15	Y		22.2 21.1	21.5	3.4	18.1	1214
16	B+W	10:10	22.0 20.7	21.1	3.4	17.7	1178
17	R		22.0 20.7	21.1	3.4	17.7	1145
18	Y		21.4 19.8	20.3	3.4	16.9	1095
19	B+W	10:12	20.3 19.0	19.4	3.4	16.0	1049
20	R		18.8 18.0	18.3	3.4	14.9	995

Profile
Notes Red CEM Plotted
Job No. 8412 Division No.
Date 12/18/63 Date
Notes Chkd. RR Checked
Date 1-6-54 Date
Map No. Indexed Date
F. B. 1888 Pg. 165

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	86+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		18.3 17.4	17.7	3.4	14.3	972
22	B+W	10:13	17.0 16.0	16.3	3.4	12.9	940
23	R		16.7 15.2	15.7	3.4	12.3	931
24	Y		15.7 14.4	14.8	3.4	11.4	910
25	B+W	10:14	15.0 12.6	13.4	3.4	10.0	894
26	R		15.9 14.0	14.6	3.4	11.2	924
27	Y		14.4 13.0	13.5	3.4	10.1	893
28	B+W	10:16	14.0 12.0	12.7	3.4	9.3	876
29	R		13.3 12.0	12.4	3.4	9.0	867
30	Y		12.7 11.7	12.0	3.4	8.6	856
31	B+W	10:17	11.0 9.6	10.1	3.4	6.7	834
32	R		12.9 11.1	11.7	3.4	8.3	850
33	Y		11.9 11.0	11.3	3.4	7.9	842
34	B+W	10:20	10.7 9.2	9.7	3.4	6.3	820
35	R		11.0 10.1	10.4	3.4	7.0	840
36	Y		10.0 8.0	8.7	3.4	5.3	800
37	B+W						
38	R						
39	Y						
40	B+W						

BOAT 86+00 N

F. B. 1888 Pg. 166

Job No. ____ Division No. ____ Notes Red. CEM Date 12/18/53 Plotted ____ Date ____ Profile ____ No. ____

Survey of ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____

Survey by ____ Date ____ Date 1-6-54 Date ____ No. ____

Indexed ____

76L298 307 10-51

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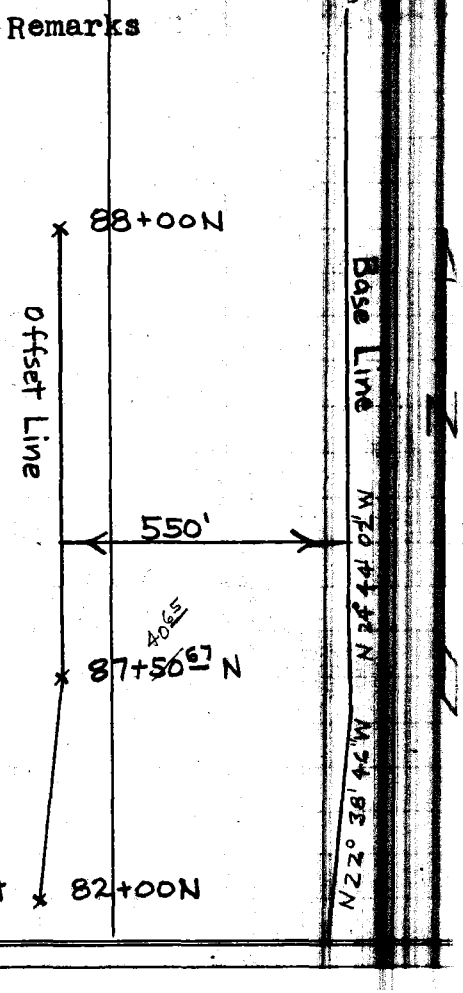
STATION	B. S.	H. I.	F. S.	ELEV.

RANGE 88+00 N

Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
88+00 N (550' offset)	87+50 67 N (550' offset)	1	B&W	10:29	90°00'	
		2	R		90°00'	
		3	Y		90°00'	
		4	B&W	10:31	90°15'	Range gun at 88+00N
		5	R		90°00'	
		6	Y		90°00'	
		7	B&W	10:34	90°00'	
		8	R		90°00'	
		9	Y		90°00'	
		10	B&W	10:35	90°00'	
		11	R		90°00'	
		12	Y		90°00'	
		13	B&W	10:37	90°00'	
		14	R		90°00'	Sight on stake at 87+50 67 N (40.65)
		15	Y		90°00'	
		16	B&W	10:38	90°00'	
		17	R		90°00'	
		18	Y		90°00'	
		19	B&W	10:41	90°00'	Cut-in gun at 82+00N
		20	R		90°00'	



Profile
Notes Red_____ Plotted_____ Job No. 8412 Division No.
Notes Chkd_____ Checked_____ Survey by_____
No._____ Date_____ Date_____ Map No._____ Indexed_____ Date_____

F.B. 1888 PG. 167

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	88+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B&W	10:43	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
88+00 N	87+50 67 N	25	B&W	10:45	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B&W	10:46	90°00'		
		29	R		90°00'		
		30	Y		90°00'		
		31	B&W	10:47	90°00'		
		32	R		90°00'		
		33	Y		90°00'		

RANGE 88+00 N

F.B. 1888 PG/68 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No. X-Sec.
Survey by FHB Notes CEM 10/16/53 Notes Chkd. Checked
Indexed Date Date Date No.

76L298 307 4-50

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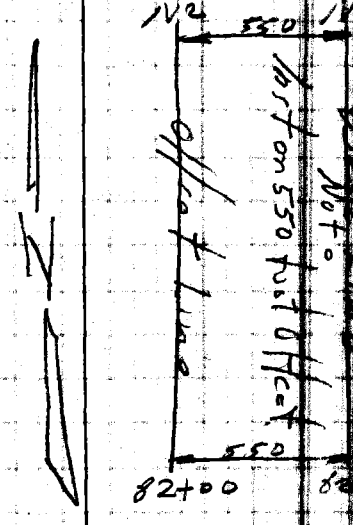
9

cut in 88+0

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
82+00 N2	1	B/W	10 29	71° 04	
	2	R		68° 42	
	3	Y		66° 31	
	4	B/W	10 31	64° 06	
	5	R		60° 42	
	6	Y		58° 33	
	7	B/W	10 34	55° 44	
	8	R		54° 03	
	9	Y		51° 59	
	10	B/W	10 35	50° 40	
	11	R		48° 44	
	12	Y		46° 26	
	13	B/W	10 37	44° 33	
	14	R		42° 17	
	15	Y		40° 29	
	16	B/W	10 38	38° 25	
	17	R		36° 53	
	18	Y		33° 48	
	19	B/W	10 40	34° 34	
	20	R		34 46	



Profile Notes Red. Plotted Job No. Division No.
X-Sec. Notes Chkd. Checked Survey by Notes Date
No. Date Date Map No. Indexed Date
F. B. Pg. 469

76L298 307 4-50

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10

CUT IN 88+00

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
82+00	N2	21	Y		37° 07	
		22	B/W	10 43	34° 49	
		23	R		33° 17	
		24	Y		31° 18	
		25	B/W	10 45	32° 48	
		26	R		31° 22	
		27	Y		30° 15	
		28	B/W	10 46	27° 47	
		29	R		26° 42	
		30	Y		24° 37	
		31	B/W	10 47	24° 09	
		32	R		22° 52	
		33	Y		26° 20	

OUT-IN 88+00

F. B. 1888 Pg. 170 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Bezch Erosion Studies Date Date No.
Survey by F H B Notes SS Notes Chkd. Checked X-Sec.
Indexed Date 10/16/53 Date Date No.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		88+00 N	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks		
1.	B&W	10:28	30.3 29.8	30.0	3.4	26.6	2140	2073	1523 +550
2.	R		27.9 27.0	28.0	3.4	24.6	1958	1910	1360
3.	Y		27.6 26.2	26.7	3.4	23.3	1822	1778	1228
4	B&W	10:30	27.2 26.0	26.4	3.4	23.0	1700	1666	1116
5	R		26.0 24.2	24.8	3.4	21.4	1554	1520	970
6	Y		24.1 23.0	23.4	3.4	20.0	1475	1341	891
7	B&W	10:33	24.0 22.5	23.0	3.4	19.6	1385	1355	805
8	R		23.0 22.5	22.7	3.4	19.3	1336	1310	760
9	Y		22.4 19.6	20.5	3.4	17.1	1282	1256	706
10	B&W	10:35	22.6 20.6	21.3	3.4	17.9	1252	1227	677
11	R		21.3 19.9	20.4	3.4	17.0	1206	1183	633
12	Y		21.9 19.8	20.5	3.4	17.1	1156	1136	586
13	B&W	10:37	20.3 19.3	19.6	3.4	16.2	1119	1100	550
14	R		20.8 18.4	19.2	3.4	15.8	1076	1060	510
15	Y		19.0 18.2	18.5	3.4	15.1	1045	1030	480
16	B&W	10:38	19.0 17.2	17.8	3.4	14.4	1010	995	445
17	R		17.5 16.8	17.0	3.4	13.6	987	971	421
18	Y		16.2 15.2	15.5	3.4	12.1	940	928	378
19	B&W	10:41	16.2 15.0	15.4	3.4	12.0	952	940	390
20	R		17.4 15.0	15.8	3.4	12.4	955	942	392

Some of these computations are in error

550' offset added to cut-in distances

Profile Notes Red. CEM Plotted Job No. Division No. F. B. 1588 Pg. 171

X-Sec. Notes Chkd. [illegible] Checked Survey by [illegible] Notes [illegible] Date

No. Date 1-6-55 Date Map No. Indexed Date

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		88+00 N.
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		18.0 16.2	16.8	3.4	13.4	990	976 426 +550
22	B+W	10:43	17.0 16.0	16.3	3.4	12.9	955	942 392
23	R		15.8 14.8	15.2	3.4	11.8	933	921 371
29	Y		14.7 13.3	13.8	3.4	10.4	906	893 343
25	B+W	10:45	15.0 14.0	14.3	3.4	10.9	926	915 365
26	R		14.0 13.1	13.4	3.4	10.0	906	897 347
27	Y		13.9 12.0	12.6	3.4	9.2	891	881 331
28	B+W	10:47	11.5 10.5	10.8	3.5	7.3	859	850 300
29	R		10.8 10.2	10.4	3.5	6.9	845	835 285
30	Y		9.5 8.5	8.8	3.5	5.3	819	810 260
31	B+W	10 48	9.7 8.2	8.7	3.5	5.2	813	803 253
32	R		8.8 7.2	7.7	3.5	4.2	798	790 240
33	Y		10.6 9.0	9.5	3.5	6.0	840	831 281
34	B+W							
35	R							
36	Y							
37	B+W							
38	R							
39	Y							
40	B+W							

BOAT 88+00N

F. S. 1888 PG. 172

Job No. ____ Division No. ____ Notes Red. CEM Plotted ____ Profile ____
Date 12/18/53 Date ____ No. ____
Survey of ____ Notes ____ Checked ____ X-Sec. ____
Survey by ____ Date ____ Date 1-8-54 No. ____
Indexed ____

76L298 307 10-51

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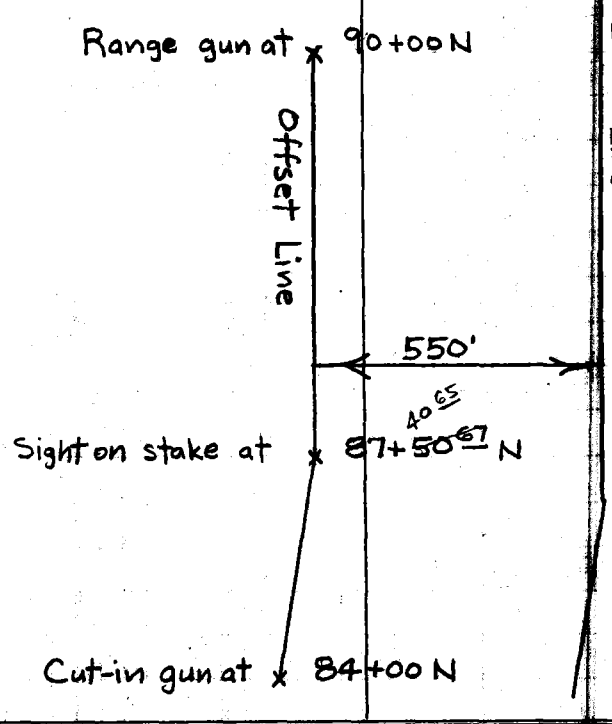
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	90+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
90+00N (550' Offset)	87+50 67 N (550' Offset)	1	B&W	10:57	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	11:00	90°00'		
		5	R		90°00'	Range gun at 90+00N	
		6	Y		90°00'		
		7	B&W	11:02	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	11:04	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	11:05	90°00'		
		14	R		90°00'	Sight on stake at 87+50 67 N (40 65)	
		15	Y		90°00'		
		16	B&W	11:06	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	11:08	90°00'	Cut-in gun at 84+00 N	
		20	R		90°00'		



Profile Notes Red ____ Plotted ____ Job No. 8410 Division No. ____

X-Sec. Notes Chkd. ____ Checked ____ Survey by EHB Notes CEM Date 10/10/55

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 PG. 173

76L298 307 10-51

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ENGINEERING BLDG.

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Do not extend notes this side of this line.

F.B. 1888 PG. 174 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of Beach Erosion Study ____ Date ____ No. ____ X-Sec. ____
Survey by FHB Notes CEM 10/16/53 Notes Chkd. ____ Checked ____
Indexed ____ Date ____ Date ____ No. ____

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	90+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
RANGE 90+00 N	87+50 N	21	Y		90°00'		
		22	B&W	11:10	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B&W	11:12	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B&W	11:14	90°00'		
		29	R		90°00'		
		30	Y		90°00'		
		31	B&W	11:16	90°00'		
		32	R		90°00'		
		33	Y		90°00'		
		34	B&W	11:18	90°00'		
		35	R		90°00'		
		36	Y		90°00'		
		37	B&W	11:20	90°00'		
		38	R		90°00'		
		39	Y		90°00'		

76L298 307 4-50

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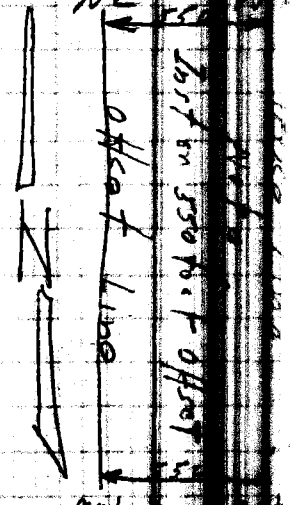
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
84+00	N2	1	B&W	10 57	71° 56		
		2	R		70° 02		
		3	Y		68° 04		
		4	B&W	10 59	66° 12		
		5	R		63° 47		
		6	Y		61° 44		
		7	B&W	11 02	59° 33		
		8	R		57° 24		
		9	Y		55° 23		
		10	B&W	11 03	53° 40		
		11	R		51° 52		
		12	Y		50° 30		
		13	B&W	11 05	48 40		
		14	R		47° 28		
		15	Y		45° 54		
		16	B&W	11 06	44° 23		
		17	R		43° 16		
		18	Y		41° 45		
		19	B&W	11 07	38° 52		
		20	R		39° 17		

cut in 90+



Profile Notes Red. Plotted Job No. 2417 Division No.
X-Sec. Notes Chkd. Checked Survey By Notes Date
No. Date Date Map No. Indexed Date
F. B. PG. 175

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR [redacted] ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

12

CUT-IN 90+00

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
89+00	N2	21	Y		38° 21	
		22	B/W	11 10	36° 44	
		23	R		35° 00	
		24	Y		33° 56	
		25	B/W	11 12	32° 56	
		26	R		32° 05	
		27	Y		29° 55	
		28	B/W	11 14	30° 45	
		29	R		30° 05	
		30	Y		29° 39	
		31	B/W	11 15	28° 46	
		32	R		31° 00 *	
		33	Y		29° 48	
		34	B/W	11 17	28° 27	
		35	R		26° 33	
		36	Y		24° 44	
		37	B/W	11 20	26° 09	
		38	R		23° 01	
		39	Y		27° 27	
		40	[illegible]	11		

CUT-IN 90+00

Profile
Plotted ____ No. ____
Date ____
X-Sec.
Checked ____ No. ____
Date ____
Notes Red ____
Date ____
Notes Chkd ____
Date ____
Job No. 8412 Division No. ____
Survey of Beach Erosion Studies
Survey by FHB Notes JS
Indexed ____ Date 10/16/53
P.B. 2888 PG. 176

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	90+00		
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks		
		31.2						
1 B&W	10:57	30.3	30.6	3.5	27.1	2198	2139	1589 + 5[illegible]
		30.0						
2 R		29.0	29.3	3.5	25.8	2128	1988	1438
		29.0						
3 Y		28.2	28.5	3.5	25.0	1911	1856	1306
		27.6						
4 B&W	10:59	26.1	26.6	3.5	23.1	1802	1751	1201
		26.7						
5 R		25.3	25.8	3.5	22.3	1678	1635	1085
		25.7						
6 Y		24.9	25.2	3.5	21.7	1590	1550	1000
		25.1						
7 B&W	11:01	24.1	24.4	3.5	20.9	1508	1469	919
		25.0						
8 R		23.1	23.7	3.5	20.2	1429	1398	848
		24.0						
9 Y		23.0	23.3	3.5	19.8	1368	1340	790
		23.0						
10 B&W	11:03	22.5	22.7	3.5	19.2	1319	1290	740
		23.5						
11 R		22.2	22.6	3.5	19.1	1273	1243	693
		23.0						
12 Y		21.8	22.2	3.5	18.7	1239	1211	661
		22.7						
13 B&W	11:05	21.8	22.1	3.5	18.6	1197	1176	626
		22.2						
14 R		21.8	21.9	3.5	18.4	1170	1147	597
		23.1						
15 Y		21.3	21.9	3.5	18.4	1139	1118	568
		21.1						
16 B&W	11:07	20.0	20.4	3.5	16.9	1108	1090	540
		21.2						
17 R		19.3	19.9	3.5	16.4	1088	1069	519
		21.0						
18 Y		18.0	19.0	3.5	15.5	1054	1040	490
		18.0						
19 B&W	11:08	17.9	18.3	3.5	14.8	1012	993	443
		18.8						
20 R		17.2	17.7	3.5	14.2	1018	1000	450

Some of these distances are in error
550' offset added to cutwin distances

Profile
Notes Red CFM Plotted
Chkd. X-Sec.
Notes Checked
Date Date
Job No.
Survey by
Map No.
Division No.
Indexed
Notes
Date
Date
F. B. 1586
Pg. 177

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		90+00 N	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks		
21	Y		19.0 / 16.9	17.6	3.6	14.0	1003	985	435 +550
22	B&W	11:10	17.7 / 15.8	16.4	3.6	12.8	978	960	410
23	R		17.0 / 14.6	15.4	3.6	11.8	951	937	387
24	Y		16.0 / 14.9	15.3	3.6	11.7	936	921	371
25	B&W	11:11	16.2 / 13.5	14.4	3.6	10.8	922	909	359
26	R		15.0 / 13.7	14.1	3.6	10.5	909	896	346
27	Y		13.7 / 12.0	12.6	3.6	9.0	880	868	318
28	B&W	11:14	14.3 / 13.0	13.4	3.6	9.8	891	880	330
29	R		14.0 / 12.7	13.1	3.6	9.5	882	870	320
30	Y		14.0 / 12.4	12.9	3.6	9.3	877	864	314
31	B&W	11:15	14.0 / 12.0	12.7	3.6	9.1	865	852	302
32	R		13.2 / 13.0	13.1	3.6	9.5	895	881	331
33	Y		14.0 / 12.7	13.1	3.6	9.5	878	868	318
34	B&W	11:17	13.1 / 12.2	12.5	3.6	8.9	861	850	300
35	R		12.2 / 11.0	11.4	3.6	7.8	836	826	276
36	Y		10.0 / 8.7	9.1	3.6	5.5	813	803	253
37	B&W	11:20	11.2 / 9.0	9.7	3.6	6.1	830	821	271
38	R		9.0 / 7.7	8.1	3.6	4.5	792	781	231
39	Y		12.3 / 10.0	10.8	3.6	7.2	847	837	287
40	B&W								

BOAT 90+00 N

Some of these distances are in error

F. B. 1888 PG. 178

Job No. ____ Division No. ____ Notes Red. CEM Date 12/18/53 Plotted ____ Date ____ No. ____ Profile

Survey of ____ Notes ____ Date ____ Checked ____ Date ____ No. ____ X-Sec.

Survey by ____ Date ____ Indexed ____ Date ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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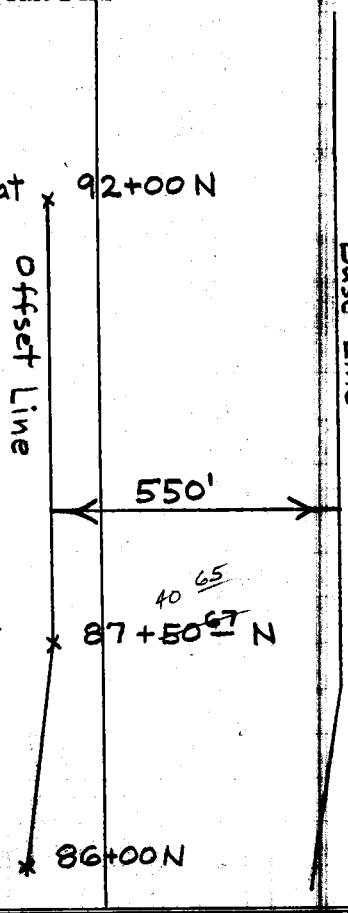
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	92+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
92+00 N (550' offset)	87+50 67 N (550' offset)	1	B & W	11:33	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B & W	11:36	90°00'	Range gun at	92+00 N
		5	R		90°00'		
		6	Y		90°00'		
		7	B & W	11:38	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B & W	11:39	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B & W	11:41	90°34'		
		14	R		90°00'	Sight on stake at	87+~~50 67~~ 40 65 N
		15	Y		90°00'		
		16	B & W	11:43	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B & W	11:45	90°00'	Cut-in gun at	86+00 N
		20	R		90°00'		



Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____

Notes Chkd ____ Checked ____ Survey by ____ Notes ____ Date ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 Pg. 179

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	92+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B&W	11:46	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B&W	11:47	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B&W	11:49	90°00'		
		29	R		90°00'		
		30	Y		90°00'		
		31	B&W	11:49	90°00'	Void this shot	
		32	R		90°00'		
		33	Y		90°00'		
		34	B&W	11:50	90°00'		

RANGE 92+00N 92+00 N

87+50 67 N

F.B. 1888 PG. 180 Job No. 8412 Division No. Notes Red. Plotted No. Profile

Survey of Beach Erosion Study Date Date X-Sec.

Survey by FHB Notes CEM 10/16/53 Notes Chkd. Checked

Indexed Date Date Date No.

76L298 307 4-50

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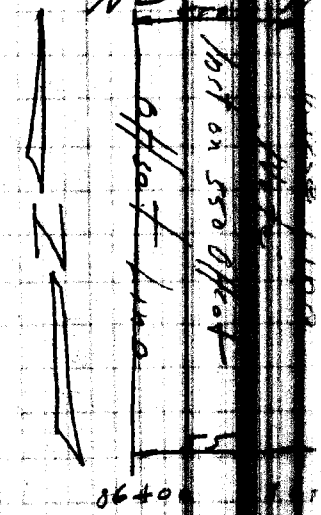
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

13

routin 92+00

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	On	#	Color	Time	Hor. Ang.	
86+00	N2	1	B/W	11 33	70° 45	
		2	R		68° 43	
		3	Y		66° 33	
		4	B/W	11 35	64° 29	
		5	R		62° 03	
		6	Y		59° 42	
		7	B/W	11 38	57° 39	
		8	R		55° 09	
		9	Y		52° 58	
		10	B/W	11 39	50° 24	
		11	R		47° 23	
		12	Y		44° 46	
		* 13	B/W	11 41	41° 44	
		14	R		39° 58	
		15	Y		38° 11	
		16	B/W	11 43	36° 08	
		17	R		34° 50	
		18	Y		32° 26	
		19	B/W	11 45	32° 38 *	
		20	R		32° 30	



Profile Notes Red. Plotted Job No. 2417 Division No. F. B. 1882 Pg. 487

Notes Chkd. Checked Survey By Notes Date

No. Date Date Map No. Indexed Date

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
86+00	1V2	21	Y		31° 52		
		22	B+W	11 46	31° 21		
		23	R		30° 08		
		24	Y		29° 47		
		25	B+W	11 47	28° 52		
		26	R		27° 41		
		27	Y		27° 10		
		28	B+W	11 48	26° 55		
		29	R		26° 28		
		30	Y		25° 42		
		31	~~B+W~~	~~11 49~~	~~25° 46~~	Void	
		32	R		24° 54		
		33	Y		24° 02		
		34	B+W	11 50	23° 52		

Cut-in 92+00

Cut-in 92+00

F. B. 1888 Pg. 172 Job No. 8412 Division No. Notes Red Plotted Profile
Survey of Bench E Rollins, Studios Date No. X-Sec.
Survey by E H B Notes Chkd Checked
Indexed Date 10/16/53 Date No.

76L298 307 4-60

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT		92+00 -N-	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1.	B+W	11:33	30.5 30.0	30.2	3.7	26.5	2088	2045 1495
2.	R		29.2 28.1	28.5	3.7	24.8	1944	1898 1348
3.	Y		28.0 27.1	27.4	3.7	23.7	1812	1765 1215
4	B+W	11:35	27.4 25.8	26.3	3.7	22.6	1704	1662 1112
5	R		25.7 24.0	24.6	3.7	20.9	1593	1557 1007
6	Y		25.0 24.0	24.3	3.7	20.6	1500	1470 920
7	B+W	11.37	24.0 23.0	23.3	3.7	19.6	1430	1402 852
8	R		23.7 22.9	23.2	3.7	19.5	1353	1330 780
9	Y		23.6 22.0	22.5	3.7	18.8	1292	1269 719
10	B+W	11.39	22.8 22.0	22.3	3.7	18.6	1228	1206 650
11	R		22.0 21.1	21.4	3.8	17.6	1160	1142 592
12	Y		21.4 20.1	20.5	3.8	16.7	1109	1092 54[illegible]
*13	B+W	11.40	21.0 19.0	19.7	3.8	15.9	1053	1034 48[illegible]
14	R		19.5 17.7	18.3	3.8	14.5	1022	1110 56[illegible]
15	Y		18.7 17.8	18.1	3.8	14.3	992	980 43[illegible]
16	B+W	11.42	18.6 17.0	17.5	3.8	13.7	961	949 39[illegible]
17	R		17.0 16.0	16.3	3.8	12.5	941	930 38[illegible]
18	Y		16.5 15.0	15.5	3.8	11.7	906	898 34[illegible]
19	B+W	11.45	15.8 15.0	15.3	3.8	11.5	909	900 3[illegible]
20	R		16.0 14.8	15.2	3.8	11.4	902	899 3[illegible]

Some of these distances are in error

550' offset added to cut-in calculations

Profile Notes Red. CEM Plotted Job No. [illegible] Division No. F. B. Pg. 183

X-Sec. Notes Chkd. XX Checked Survey By [illegible] Notes [illegible] Date

No. Date 1-6-56 Date Map No. Indexed Date

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

Profile No. X-Sec. No.

Job No. Division No. Notes Red. CEM Plotted
Date 12/18/53 Date
Notes Chkd. Checked
Date 1-6-54 Date

F. B. 1888 PG. 194

Survey of
Survey by
Indexed

STATION #	Color	B. S. Time	H. I. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks	
						BOAT	92700 N	
21	Y		15.0 / 13.8	14.2	3.8	10.4	889	889 339 + 550
22	B+W	1146	14.9 / 13.2	13.8	3.8	10.0	881	882 332
23	R		14.0 / 12.2	12.8	3.8	9.0	875	866 316
24	Y		14.6 / 12.9	13.3	3.8	9.5	870	861 311
25	B+W	1147	14.1 / 12.0	12.7	3.8	8.9	858	850 300
26	R		13.0 / 11.0	11.7	3.8	7.9	843	834 284
27	Y		12.5 / 10.1	10.9	3.8	7.1	836	830 280
28	B+W	1149	11.6 / 11.0	11.2	3.8	7.4	833	825 275
29	R		11.8 / 10.6	11.0	3.8	7.2	827	820 270
30	Y		11.6 / 10.6	10.5	3.8	6.7	817	810 260
~~31~~	~~B+W~~	~~1151~~	~~11.7 / 9.2~~					VOID
32	R		11.1 / 10.0	10.4	3.8	6.6	807	800 250
33	Y		10.4 / 9.0	9.5	3.8	5.7	797	790 240
34	B+W	1149	10.8 / 8.0	8.9	3.8	5.1	795	787 237
35	R							
36	Y							
37	B+W							
38	R							
39	Y							
40	B+W							

BOAT 92700 N

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 94+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
94+00 N (550' Offset Line)	1	B&W	6:24	89° 52'	Swells exceptionally large
	2	R		90° 00'	
	3	Y		90° 00'	Range gun at 94+00 N
	4	B&W	6:27	90° 00'	
	5	R		90° 00'	
	6	Y		90° 00'	
	7	B&W	6:29	90° 00'	
	8	R		90° 00'	
	9	Y		90° 00'	
	10	B&W	6:31	90° 00'	550'
	11	R		90° 00'	
	12	Y		90° 00'	
88+00 N (550' Offset Line)	13	B&W	6:33	90° 00'	Sight on cut-in gun at 88+00 N
	14	R		90° 00'	
	15	Y		90° 00'	
	16	B&W	6:35	90° 00'	
	17	R		90° 00'	
	18	Y		90° 00'	
	19	B&W	6:37	90° 00'	
	20	R		90° 00'	

Offset Line

Base Line

Profile Notes Red ____ Plotted ____ Job No. 9412 Division No. ____

Notes Chkd ____ Checked ____ Survey by ____ Notes ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 Pg. 18

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1888 PG. 186 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ No. _____ Profile
Survey of Beach Erosion Study Date _____ Date _____ No. _____ X-Sec.
Survey by FHB Notes CEM 10/20/53 Notes Chkd. _____ Checked _____
Indexed _____ Date _____ Date _____

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	94+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90° 00'		
		22	B & W	6:39	90° 00'		
		23	R		90° 00'		
		24	Y		90° 00'		
		25	B & W	6:41	90° 00'		
94+00 N	88+00 N	26	R		90° 00'		
		27	Y		90° 00'		
		28	B & W	6:43	90° 00'		
		29	R		90° 00'		
		30	Y		90° 00'		
		31	B & W	6:45	90° 00'		
		32	R		90° 00'		
		33	Y		90° 00'		
RANGE 94+00 N		34	B & W	6:47	90° 00'		
		35	R		90° 00'		
		36	Y		90° 00'		
		37	B & W	6:49	90° 00'		
		38	R		90° 00'		
		39	Y		90° 24'		
		40	B & W	6:52	90° 00'		

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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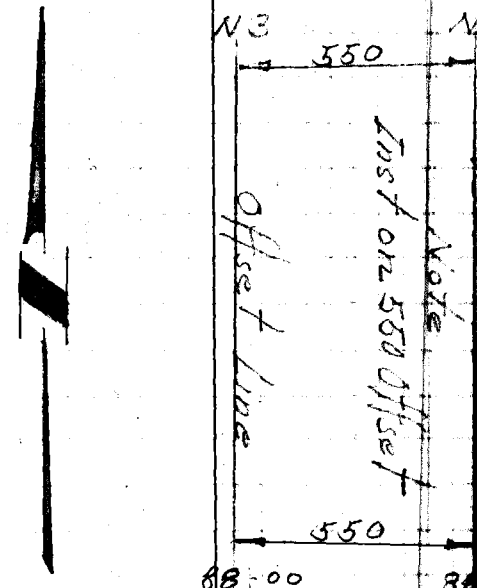
Do not extend notes this side of this line.

CUT IN 94+00

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
88+00	N 3 55 0	1	B & W	6:26	69°40	
		2	R		[illegible]	
		3	Y		[illegible]	
		4	B & W	[illegible]	[illegible]	
		5	R		53°[illegible]	
		6	Y		[illegible]	
		7	B & W	6:[illegible]	[illegible]	
		8	R		[illegible]	
		9	Y			
		10	B & W	[illegible]	[illegible]	
		11	R		[illegible]	
		12	Y		[illegible]	
		13	B & W	[illegible]	[illegible]	
		14	R		[illegible]	
		15	Y		45°18	
		16	B & W	6:32	43°21	
		17	R		41°[illegible]	
		18	Y		40°[illegible]	
		19	B & W	6:39	[illegible]	
		20	R		38°34	



Profile Notes Red. Plotted Job No. Division No. F. B. Pg. 187

X-Sec. Notes Chkd. Checked Survey of

No. Date Date Map No. Indexed Date

F.B. Pg. 188 Job No. Division No. Notes Red. Plotted Profile 2

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Cut In 94+00 N

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At	#	Color	Time	Hor. Ang.		Remarks

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 8-53

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Boat	94+10 N
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
		34.3				
1 B&W	624	32.8	33.3	5.9	27.4	2170
		32.1				
2 R		31.0	31.4	5.9	25.5	1964
		32.3				
3 Y		30.0	30.8	6.0	24.8	1888
		30.6				
4 B&W	627	30.0	30.2	6.0	24.2	1831
		30.1				
5 R		29.2	29.5	6.0	23.5	1760
		28.8				
6 Y		29.0	29.3	6.0	23.3	1690
		28.2				
7 B&W	629	27.0	27.4	6.0	21.4	1578
		28.7				
8 R		27.0	27.6	6.0	21.6	1537
		27.4				
9 Y		26.0	26.5	6.0	20.5	1476
		27.1				
10 B&W	631	25.3	25.9	6.0	19.9	1431
		26.9				
11 R		25.1	25.7	6.0	19.7	1385
		26.1				
12 Y		24.8	25.2	6.0	19.2	1330
		25.3				
13 B&W	633	24.3	24.6	6.0	18.6	1253
		24.6				
14 R		23.3	23.7	6.0	17.7	1197
		24.8				
15 Y		22.5	23.1	6.0	17.1	1156
		24.1				
16 B&W	636	22.7	23.2	6.0	17.2	1116
		24.0				
17 R		22.9	23.3	6.0	17.3	1077
		24.2				
18 Y		22.1	22.8	6.0	16.8	1064
		23.1				
19 B&W	637	21.9	22.3	6.0	16.3	1056
		23.3				
20 R		21.6	22.2	6.0	16.2	1029

BOAT STATION

Profile Notes Red. EM Plotted ____ Job No. ____ Division No. ____ F. B. 12511 Pg. 189
X-Sec. Notes Chkd. AM Checked ____ Survey by ____ Notes ____ Date ____
Date 1-6-54 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Boat	94+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		22.6 21.0	21.5	6.0	15.5	1001
22	B&W	6 39	21.6 20.1	20.6	6.0	14.6	975
23	R		21.2 19.9	20.3	6.0	14.3	965
24	Y		20.0 19.0	19.3	6.0	13.3	942
25	B&W	6.41	19.0 18.0	18.3	6.0	12.3	920
26	R		18.6 17.0	17.5	6.1	11.4	902
27	Y		18.1 15.7	16.5	6.1	10.4	888
28	B&W	6.43	17.5 16.5	16.8	6.1	10.7	883
29	R		16.2 14.5	15.1	6.1	9.0	861
30	Y		19.6 16.9	17.8	6.1	11.7	885
31	B&W	6 45	18.2 16.9	17.3	6.1	11.2	891
32	R		18.0 16.0	16.7	6.1	10.6	890
33	Y		18.0 16.1	16.7	6.1	10.6	874
34	B&W	6 47	18.1 16.0	16.7	6.1	10.6	878
35	R		17.0 15.4	15.9	6.1	9.8	872
36	Y		18.0 16.0	16.7	6.1	10.6	879
37	B&W	6 49	17.2 15.6	16.1	6.1	10.0	874
38	R		15.0 13.5	14.0	6.1	7.9	840
39	Y		16.0 14.6	15.1	6.1	9.0	851
40	B&W	1 52	15.8 15.2	15.4	6.1	9.3	854

Boat 94+00 N

F. B. 1818 Pg. 190

Job No. ____ Division No. ____ Notes Red. CEM Date 12/18/53 Plotted ____ Date ____ No. ____ Profile ____

Survey of ____ Notes ____ Notes Chkd. KK Date 1-6-54 Checked ____ Date ____ X-Sec. ____ No. ____

Survey by ____ Date ____

Indexed ____

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	94+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		41	R		90°00'		
		42	Y		90°00'		
		43	B&W	6:54	90°00'		
		44	R		90°00'		
		45	Y		90°00'		
94+00N	88+00N	46	B&W	6:55	90°00'		
		47	R		90°00'		
					90°00'		

RANGE 94+00N

Profile Notes Red ____ Plotted ____ Job No. 9412 Division No. ____

X-Sec. Notes Chkd. ____ Checked ____ Survey by FHD Notes CEM Date [illegible]

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 Pg. 191

76L298 307 10-51

PLEASE RETURN TO

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

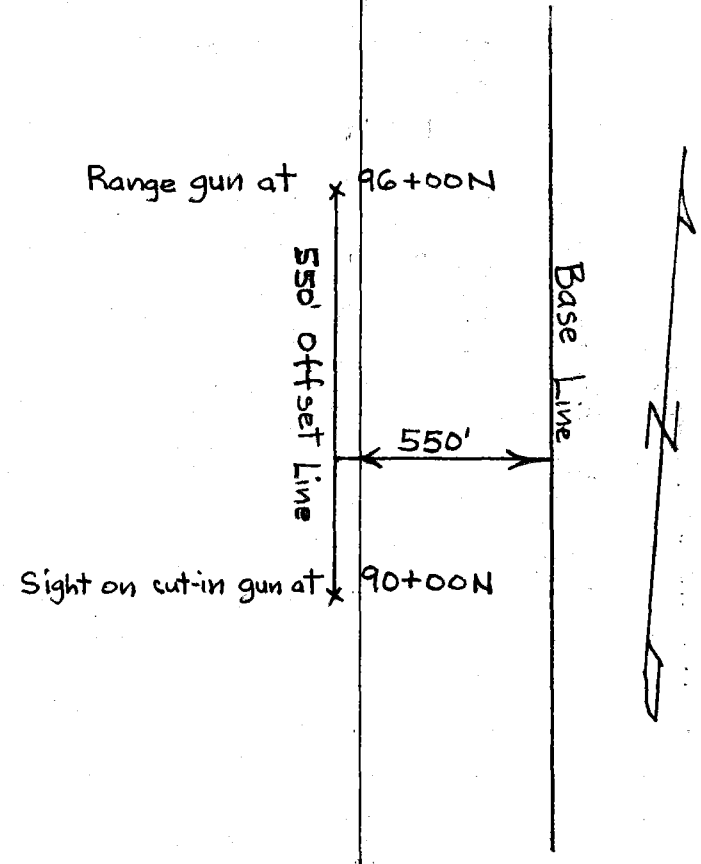
B. 1888 PG. 192 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date _____ Date _____ No. _____ X-Sec. _____

Survey by FHB Notes CEM 10/20/53 Notes Chkd. _____ Checked _____ No. _____

Indexed _____ Date _____ Date _____ Date _____

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	96+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
RANGE 96+00 N	96+00 N (550' offset)	1	B & W	7:06	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B & W	7:08	90°00'	Range gun at	96+00N
		5	R		90°00'		
		6	Y		90°00'		
		7	B & W	7:10	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B & W	7:13	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B & W	7:15	90°00'	Sight on cut-in gun at	90+00N
		14	R		90°00'		
		15	Y		90°00'		
		16	B & W	7:17	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B & W	7:19	90°00'		
		20	R		90°00'		



76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
88+00						

Profile Notes Red. Plotted Job No. Division No. F. B. Pg. 193

X-Sec. Notes Chkd. Checked Survey by Notes Date

No. Date Date Map No. Indexed Date

76L298 307 8-53

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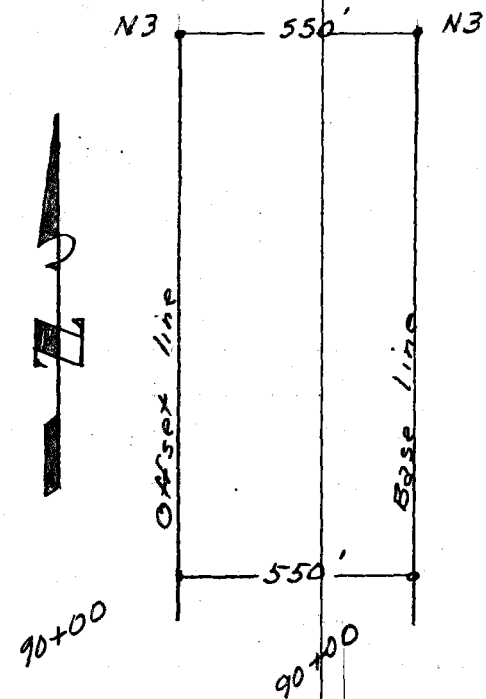
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut In	96+00
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
90+00 N-3 550' Offset	1	[illegible]	7:07	67° 46'		
	2	[illegible]		66° 17'		
	3			65° 02'		
	4	[illegible]	7:09	63° 52'		
	5	[illegible]		62° 39'		
	6	[illegible]		60° 21'		
	7	[illegible]	7:12	58° 06'		
	8	[illegible]		56° 31'		
	9	[illegible]		54° 47'		
	10	[illegible]	7:14	52° 33'		
	11	R		50° 22'		
	12	Y		48° 34'		
	13	[illegible]	7:16	46° 11'		
	14	R		43° 29'		
	15	Y		40° 41'		
	16	[illegible]	7:18	38° 55'		
	17	R		37° 21'		
	18	Y		35° 11'		
	19	[illegible]	7:20	32° 43'		
	20	R		29° 59'		



Cut In 96+00

E. B. 1888 Pg. 194 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F.H.B. Notes Chkd. Checked X-Sec.
Indexed Date 10-20-53 Date Date No.

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
41	R		13.4 12.6	12.9	6.1	6.8	826
42	Y		14.4 12.1	12.9	6.1	6.8	823
43	B&W	6.54	12.0 11.8	11.9	6.1	5.8	815
44	R		11.9 10.7	11.2	6.1	5.1	806
45	Y		11.9 10.5	11.0	6.1	4.9	806
46	B&W	6.57	10.5 9.0	9.5	6.1	3.4	804
47	R		10.5 8.6	9.2	6.1	3.1	786
48	Y						
49							
50							
11							
12							

Profile Notes Red. [illegible] Plotted ____ Job No. ____ Division No. ____

X-Sec. Notes Chkd. [illegible] Checked ____ Survey by ____ Notes ____ Date [illegible]

No. ____ Date 1-6-54 Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1889 Pg. 195

[illegible]

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	96+00 N

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	7:06	33.0 / 31.6	32.1	6.1	26.0	2018
2	R		31.4 / 30.1	30.5	6.1	24.4	1916
3	Y		31.1 / 30.1	30.4	6.1	24.3	1840
4	B+W	7:08	31.0 / 29.5	29.9	6.1	23.8	1772
5	R		30.1 / 28.7	29.2	6.1	23.1	1710
6	Y		29.5 / 27.9	28.4	6.1	22.3	1603
7	B+W	7:10	28.4 / 26.2	26.9	6.1	20.8	1514
8	R		27.9 / 25.2	26.1	6.1	20.0	1456
9	Y		26.6 / 25.6	25.9	6.1	19.8	1400
10	B+W	7:12	26.0 / 25.3	25.5	6.1	19.4	1332
11	R		25.4 / 24.0	24.5	6.1	18.4	1274
12	Y		25.1 / 23.5	24.0	6.1	17.9	1230
13	B+W	7:15	24.1 / 23.0	23.4	6.1	17.3	1175
14	R		24.8 / 22.3	23.1	6.1	17.0	1120
15	Y		22.5 / 22.0	22.2	6.1	16.1	1066
16	B+W	7:17	23.1 / 20.6	21.4	6.1	15.3	1035
17	R		21.5 / 20.8	20.7	6.1	14.6	1007
18	Y		21.0 / 19.2	20.1	6.1	14.0	973
19	B+W	7:19	19.2 / 18.7	18.9	6.1	12.8	936
20	R		19.3 / 15.9	17.1	6.1	11.0	896

BOAT 96+00 N

F. S. 1888 PG. 146

Job No. ____ Division No. ____ Notes Red. CEM Plotted ____ Profile ____
Survey of ____ Date 12/18/53 Date ____ No. ____
Survey by ____ Notes ____ Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ No. ____

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	96+00N
Inst at	Sight on	#	Color	Time	Hor. Ang.	
		21	Y		90°00'	
		22	B&W	7:21	90°00'	
		23	R		90°00'	
		24	Y		90°00'	
		25	B&W	7:24	90°00'	
96+00N	90+00N	26	R		90°00'	
		27	Y		90°00'	
		28	B&W	7:25	90°00'	
		29	R		90°00'	
		30	Y		90°00'	
		31	B&W	7:28	90°00'	
		32	R		90°00'	
		33	Y		90°00'	
		34	B&W	7:30	90°00'	
		35	R		90°00'	
		36	Y		90°00'	
		37	B&W	7:33	90°00'	
		38	R		90°00'	
		39	Y		90°00'	
		40	B&W	7:35	90°00'	

RANGE 96+00N

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____

No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by ____ Notes ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 PG. 197

F.B. 1888 PG. 198 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Study Date _____ Date _____ No. _____

Survey by FHB Notes CEM 10/20/53 Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L298 307 10-51

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STATION	B.S.	H.I.	F.S.	ELEV.	RANGE	96+00N
Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks	
96+00N	41	R		90°00'		
	42	Y		90°00'		
	43	BEW	7:37	90°00'	Waved red flag, not BEW	
	44	R		90°00'		
	45	Y		90°00'		
	46	BEW	7:38	90°00'		
	47	R		90°00'		
RANGE 96+00N						
90+00N						

76L298 307 8-53

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Cut In 96+00

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.	
90+00 N-3 550' Offset	21	Y		35° 30'	
	22	B & W	7:23	36° 13	* Pick up
	23	R		36° 23'	* " "
	24	Y		34° 05	
	25	B & W	7:25	33° 01'	
	26	R		32° 11'	
	27	Y		29° 42'	
	28	B & W	7:27	28° 20'	
	29	R		31° 50'	* " "
	30	Y		30° 52'	* " "
	31	B & W	7:29	29° 11'	
	32	R		26° 49'	
	33	Y		26° 08	
	34	B & W	7:31	24° 40'	
	35	R		29° 56	
	36	Y		27° 13	
	37	B & W	7:34	25 58	
	38	R		24 48	*
	39	Y		25° 34	
	40	B & W	7:36	25° 18	

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1888 Pg. 199

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1888 PG. 200 Job No. Division No. Notes Red. Plotted Profile 6

Survey of Beach Erosion Studies Date Date No.

Survey by F.H.B. Notes C.E.S. Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut In	96+00 N
Inst. Sight At 90+00 N N-3 550 offset	#	Color	Time	Hor. Ang.	Remarks	
	41	R		24° 53'		
	42	Y		23° 40'		
	43	B & W	7:37	24° 14' *		
	44	R		23° 55'		
	45	Y		22° 32'		
	46	B & W	7:39	21° 58'		
	47	R		22° 21'		

Cut In 96+00 N

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	96+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		21.0 19.5	20.0	6.1	13.9	979
22	B+W	7:21	21.1 19.5	20.0	6.1	13.9	990
23	R		20.5 19.9	20.1	6.1	14.0	991
24	Y		20.0 18.7	19.1	6.1	13.0	956
25	B+W	7:23	19.9 17.8	18.5	6.1	12.4	940
26	R		20.0 17.6	18.4	6.1	12.3	927
27	Y		18.6 17.0	17.5	6.1	11.4	892
28	B+W	7:25	16.3 15.0	15.4	6.0	9.4	874
29	R		19.0 17.0	17.7	6.0	11.7	922
30	Y		19.4 16.1	17.2	6.0	11.2	909
31	B+W	7:28	16.3 15.5	15.8	6.0	9.8	885
32	R		15.0 14.0	14.3	6.0	8.3	854
33	Y		15.3 13.7	14.2	6.0	8.2	844
34	B+W	7:29	14.0 12.0	12.7	6.0	6.7	826
35	R		18.0 ? 17.0	17.3?	6.0	11.3?	896
36	Y		16.3 15.0	15.4	6.0	9.4	858
37	B+W	7:32	15.3 14.0	14.4	6.0	8.4	842
38	R		14.2 12.0	12.7	6.0	6.7	827
39	Y		15.1 13.4	14.0	6.0	8.0	837
40	B+W	7:34	13.9 12.9	13.2	6.0	7.2	834

Profile Notes Red CEM Plotted Job No. Division No. F. B. 1888 Pg. 201

No. Date 1-6-54 Date Map No. Indexed Date

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	96+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
41	R		12.7 12.1	12.3	6.0	6.3	828
42	Y		12.0 10.9	11.3	6.0	5.3	813
43	B+W	7:36	12.6 11.2	11.7	6.0	5.7	819
44	R		11.8 10.4	10.9	6.0	4.9	816
45	Y		11.0 9.9	10.3	6.0	4.3	799
46	B+W	7:38	11.0 9.0	9.7	6.0	3.7	792
47	R		11.0 8.0	9.0	6.0	3.0	796
48	Y						
49	B+W						
50	R						
51	Y						

BOAT 96+50 N

F. B. 1888 PG. 202 Job No. Division No. Notes Red. CEM Date 12/18/53 Plotted Date Profile No. X-Sec.
Survey of Survey by Notes Checked Date 1-6-53 Checked Date No.
Indexed Date

76L298 307 10-51

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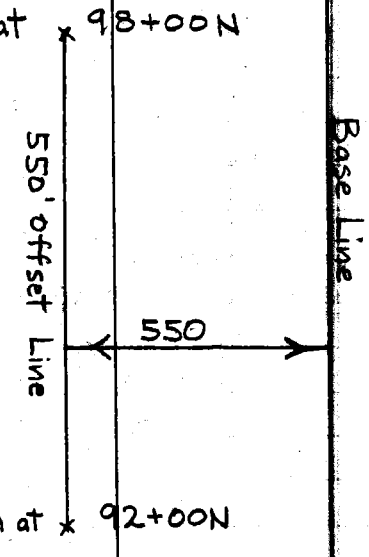
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	98+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
98+00 N (550' offset Line)	92+00 N (550' offset Line)	1	B&W	7:53	90° 00'		
		2	R		90° 00'		
		3	Y		90° 00'	Range gun at 98+00 N	
		4	B&W	7:56	90° 00'		
		5	R		90° 00'		
		6	Y		90° 00'		
		7	B&W	7:58	90° 00'		
		8	R		90° 00'		
		9	Y		90° 00'		
		10	B&W	8:00	90° 00'		
		11	R		90° 00'		
		12	Y		90° 00'		
		13	B&W	8:02	90° 00'		
		14	R		90° 00'	Sight on cut-in gun at 92+00 N	
		15	Y		90° 00'		
		16	B&W	8:04	90° 00'		
		17	R		90° 00'		
		18	Y		90° 00'		
		19	B&W	8:06	90° 00'		
		20	R		90° 00'		



Profile
Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
Notes Chkd. ____ Checked ____ Survey by ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 PG. 203

RANGE 98+00 N

76L298 307 10-51

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	98+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B&W	8:08	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B&W	8:10	90°00'		
		26	R		90°00'		
98+00N	92+00N	27	Y		90°00'		
		28	B&W	8:13	90°00'		
		29	R		90°00'		
		30	Y		90°00'		
		31	B&W	8:15	90°00'		
		32	R		90°00'		
		33	Y		90°00'		
		34	B&W	8:17	90°00'		
		35	R		90°00'		
		36	Y		90°00'		
		37	B&W	8:19	90°00'		
		38	R		90°00'		
		39	Y		90°00'		
		40	B&W	8:21	90°00'		

RANGE 98+00N

F.B. 1888 PG. 204 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____

Survey of Beach Erosion Study Date ____ Date ____ No. ____

Survey by FHB Notes CEM 10/20/53 Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 8-53

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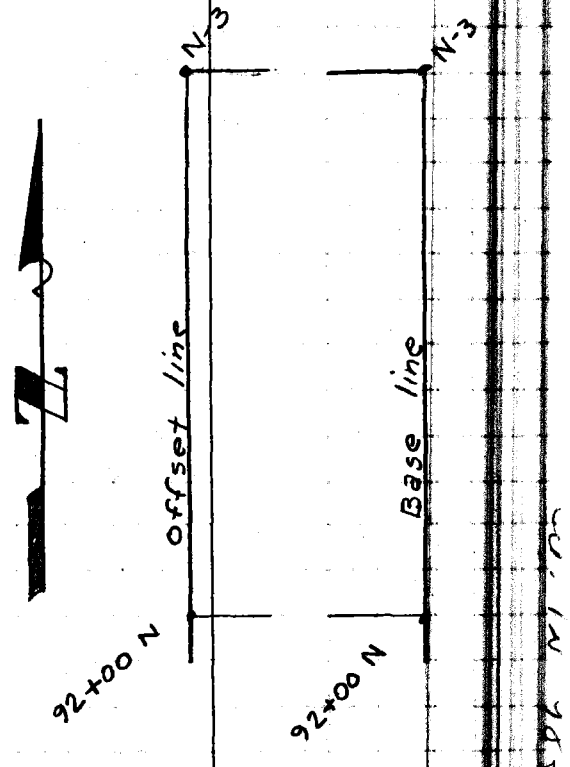
STATION	B. S.	H. I.	F. S.	ELEV.	Cut In 98+00
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
92+00 N / N-3, 550' offset	1	B & W	7:54	68° 18'	
	2	R		66° 12'	
	3	Y		63° 53'	
	4	B & W	7:57	62° 15'	
	5	R		60° 38'	
	6	Y		58° 01'	
	7	B & W	7:59	55° 13'	
	8	R		52° 29'	
	9	Y		50° 52'	
	10	B & W	8 02	49° 07'	
	11	R		47° 54'	
	12	Y		45° 55'	
	13	B & W	8:04	43° 42'	
	14	R		41° 57'	
	15	Y		40° 18'	
	16	B & W	8:06	38° 07'	
	17	R		40° 57'	*
	18	Y		40° 36'	
	19	B & W	8:07	39° 06'	
	20	R		36° 38'	



Profile Notes Red. Plotted Job No. 8417 Division No.
X-Sec. Notes Chkd. Checked Survey By [illegible]
No. Date Date Map No. Indexed Date
F. B. 1888 PG. 205

76L298 307 8-53

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut In	98+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
N-3 92+00N 550 offset	21	Y		34° 45'		
	22	B & W	8:10	36° 27	*	
	23	R		36° 37		
	24	Y		36° 34		
	25	B & W	8:12	36° 01		
	26	R		35° 19		
	27	Y		34° 18		
	28	B & W	8 14	33° 25		
	29	R		32° 11		
	30	Y		30° 42		
	31	B & W	8:16	29° 29		
	32	R		30° 41		
	33	Y		30° 15		
	34	B & W	8:18	30° 37	*	
	35	R		30° 13		
	36	Y		29° 11		
	37	B & W	8:20	28° 16		
	38	R		26° 52		
	39	Y		25° 37		
	40	B & W	8:22	26° 01		

Cut In 98-00 N

F. S. 1888 Pg. 206 Job No. 8412 Division No. Notes Red. Plotted No. Profile 8
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by F.H.B. Notes C.E.S. Notes Chkd. Checked No.
Indexed Date Date Date

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	98+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	7:53	33.1 / 32.0	33.0	5.8	27.2	2059
2	R		32.6 / 31.5	31.9	5.8	26.1	1910
3	Y		31.0 / 29.1	29.7	5.8	23.9	1775
4	B+W	7:55	30.0 / 28.2	28.9	5.8	23.1	1691
5	R		28.6 / 27.9	28.1	5.8	22.3	1618
6	Y		28.5 / 27.0	27.5	5.8	21.7	1510
7	B+W	7:58	28.2 / 26.8	27.3	5.8	21.5	1415
8	R		26.8 / 25.3	25.8	5.8	20.0	1331
9	Y		25.1 / 24.0	24.4	5.8	18.6	1287
10	B+W	8:00	24.8 / 24.2	24.4	5.8	18.6	1242
11	R		24.8 / 23.9	24.2	5.7	18.5	1214
12	Y		24.3 / 23.3	23.6	5.7	17.[illegible]	1169
13	B+W	8:02	24.0 / 23.0	23.3	5.7	17.6	1124
14	R		23.2 / 22.1	22.5	5.7	16.8	1089
15	Y		23.0 / 21.7	22.1	5.7	16.4	1059
16	B+W	8:04	22.0 / 20.1	20.7	5.7	15.0	1020
17	R		23.2 / 21.3	21.9	5.7	16.2	1070
18	Y		23.3 / 20.8	21.6	5.7	15.9	1065
19	B+W	8:06	23.0 / 21.0	21.7	5.7	16.0	1037
20	R		21.0 / 19.9	20.3	5.7	14.6	996

Profile Notes Red CEM Plotted Job No. Division No.
X-Sec. Notes Chkd. Checked Survey By Notes
No. Date 1-6-58 Date Map No. Indexed Date
F. B. 1888

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STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	98+00N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		20.9 / 18.3	19.~~1~~ .2	5.7	13.~~4~~ .5	966
22	B+W	8:10	21.1 / 19.9	20.3	5.6	14.7	994
23	K		21.4 / 19.0	19.8	5.6	14.2	996
24	Y		20.6 / 19.0	19.5	5.6	13.9	995
25	B+W		20.9 / 20.0	20.3	5.6	14.7	986
26	R		20.9 / 19.6	20.0	5.6	14.4	975
27	Y		20.0 / 17.8	18.5	5.6	12.9	960
28	B+W	8:12	19.0 / 17.9	18.3	5.6	12.7	946
29	R		18.0 / 16.9	17.3	5.6	11.7	928
30	Y		17.9 / 16.2	16.8	5.6	11.2	906
31	B+W	8:15	17.4 / 16.0	16.5	5.6	10.9	889
32	R		17.1 / 16.0	16.4	5.6	10.8	906
33	Y		17.0 / 16.0	16.3	5.5	10.8	900
34	B+W	8:17	17.8 / 16.3	16.8	5.5	11.3	905
35	K		17.1 / 16.0	16.4	5.5	10.9	900
36	Y		16.6 / 15.7	16.0	5.5	10.5	885
37	B+W	8:19	16.0 / 14.9	15.3	5.5	9.8	872
38	R		14.2 / 13.8	13.9	5.5	8.4	854
39	Y		14.1 / 10.9	11.~~1~~ .0	5.5	5.~~6~~ .5	838

BOAT 98+00N

Job No. ____ Division No. ____ Notes Red CEM Date 12/18/53 Plotted ____ Date ____ Profile ____ No. ____
Notes ____ Date 10/20/53 Notes Chkd. ____ Date ____ Checked ____ Date ____ X-Sec. ____ No. ____
Pg. 208

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	98+00N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	41	R		90°00'		
	42	Y			waved red, not yellow	
	43	B & W	8:22	90°00'		
	44	R		90°00'		
	45	Y		90°00'		
	46	B & W	8:24	90°00'		
	47	R		90°00'		
	48	Y		90°00'		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____

Notes Chkd. ____ Checked ____ Survey by ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 Pg. 209

76L298 307 10-51

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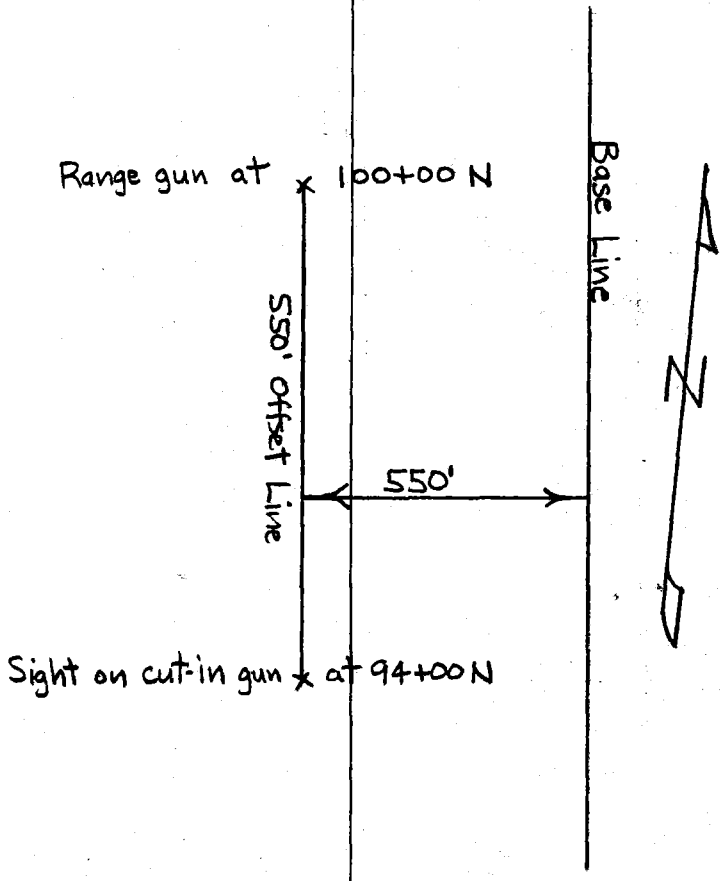
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	100+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
100+00 N (550' Offset Line)	94+00 N (550' Offset Line)	1	B&W	8:36	90°00'		
		2	R		90°00'		
		3	Y		90°00'		
		4	B&W	8:38	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	8:40	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	8:43	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	8:44	90°00'		
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	8:46	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	8:48	90°00'		
		20	R		90°00'		



RANGE = 100+00 N

F.B. 1888 PG 210 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No. X-Sec.
Survey by FHB Notes CEM 10/20/53 Notes Chkd. Checked
Indexed Date Date Date No.

76L298 307 8-53

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Cut In	98+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
92+00N	N-3 550 Offet	41	R		26° 23'		
		42	Y		25° 40		
		43	B & W	8:24	24° 28		
		44	R		23° 35'		
		45	Y		22° 14		
		46	B & W	8:26	21° 53		
		47	R		22° 25		
		48	Y		23° 38		

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1888 Pg. 211

X-Sec. Notes Chkd. Checked Survey by [illegible]

No. Date Date Map No. Indexed Date

Cut In 98+00N

76L298 307 8-53

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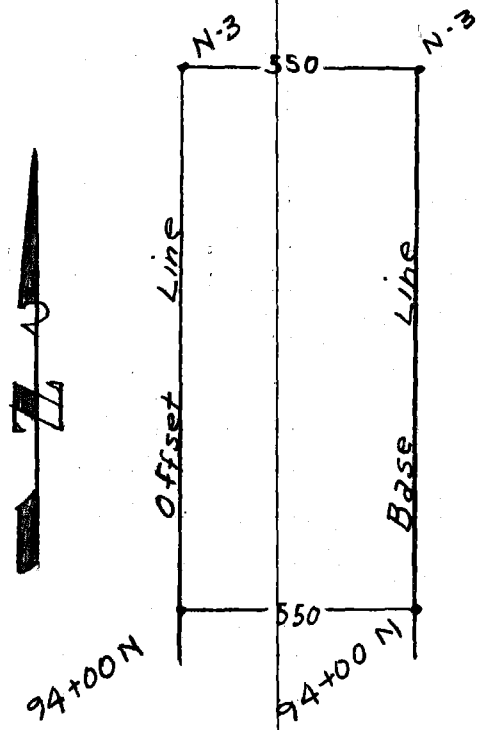
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut In 100+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
94+00N N-3 550 offset	1	B & W	8:37	66°39	
	2	R		64°58	
	3	Y		62°46	
	4	B & W	8:39	61°03	
	5	R		58°58	
	6	Y		56°57	
	7	B & W	8:41	55°08	
	8	R		53°00	
	9	Y		50°41	
	10	B & W	8:44	48°28	
	11	R		46°22	
	12	Y		44°05	
	13	B & W	8:46	41°46	
	14	R		39°20	
	15	Y		37°04	
	16	B & W	8:47	34°07	
	17	R		34°35	
	18	Y		35°29 *	
	19	B & W	49	33°18	
	20	R		31°60	

Cut In 100+00 N



F.B. 1888 Pg. 212 Job No. 8412 Division No. Notes Red. Plotted No. Profile 10
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by F.H.B. Notes C E S Notes Chkd. Checked No.
Indexed Date Date Date

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	98+00	
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
40	B+W	8 20	13.1 / 12.2	12.5	5.5	7.0	843
41	R		14.8 / 13.1	13.7	5.5	8.2	848
42	Y		14.1 / 12.2	12.8	5.5	7.3	838
43	B+W	8:22	13.0 / 11.0	11.7	5.5	6.2	823
44	R		11.2 / 10.0	10.4	5.5	4.9	812
45	Y		11.0 / 8.0	9.0	5.4	3.6	795
46	B+W	8:24	9.7 / 7.8	8.4	5.4	3.0	791
47	R		10.5 / 8.5	9.2	5.4	3.8	798
48	Y		10.9 / 9.1	9.7	5.4	4.3	813
49							

Profile

Notes Red CEM Plotted _____ Job No. [illegible] Division No. _____

Notes Chkd. [illegible] Checked _____ Survey by [illegible] Notes [illegible] Date _____

No. _____ Date 1-6-54 Date _____ Map No. _____ Indexed _____ Date _____

F.B. 1888 Pg. 213

BOAT 90+00

76L298 307 10-51

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ENGINEERING BLDG.

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Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____

Job No. 8412 Division No. ____ Notes Red. CEM Plotted ____
Date 12/18/53 Date ____
Notes ____ Notes Chkd. KK Checked ____
Date 10/20/53 Date 1-6-54 Date ____
Notes ____
Date ____

Survey of ____
Survey by ____
Indexed ____

B. 188 PG 214

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	100+00 N
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1 B+W	8.36	32.5 / 30.1	30.9	5.2	25.7	1940
2 R		30.4 / 29.0	29.5	5.2	24.3	1833
3 Y		29.4 / 28.0	28.5	5.2	23.3	1715
4 B+W	8:38	28.9 / 27.0	27.6	5.2	22.4	1634
5 R		28.1 / 26.0	26.7	5.2	21.5	1546
6 Y		26.5 / 25.0	25.5	5.2	20.3	1470
7 B+W	8:40	26.0 / 24.1	24.7	5.2	19.5	1410
8 R		25.0 / 23.4	23.9	5.1	18.8	1345
9 Y		25.1 / 22.3	23.2	5.1	18.1	1281
10 B+W	8:42	24.1 / 22.9	23.3	5.1	18.2	1227
11 R		23.1 / 22.1	22.4	5.1	17.3	1179
12 Y		24.0 / 21.1	22.1	5.1	17.0	1131
13 B+W	8:44	22.6 / 20.7	21.3	5.1	16.2	1085
14 R		22.0 / 19.9	20.6	5.1	15.5	1041
15 Y		20.1 / 19.3	19.9	5.1	14.8	1004
16 B+W	8:46	19.0 / 18.0	18.3	5.1	13.2	956
17 R		19.4 / 18.0	18.5	5.1	13.4	964
18 Y		20.6 / 18.9	19.5	5.0	14.5	978
19 B+W	8:47	18.4 / 17.1	17.5	5.0	12.5	944
20 R		17.3 / 16.0	16.4	5.0	11.4	925

100+00 N

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	100+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B & W	8:49	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B & W	8:51	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
		28	B & W	8:53	90°00'		
100+00 N	94+00 N						

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____

F.B. 1888 Pg. 215

No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by ____ Map No. ____ Indexed ____ Date ____

Range Inst-ATN

76L298 307 10-51

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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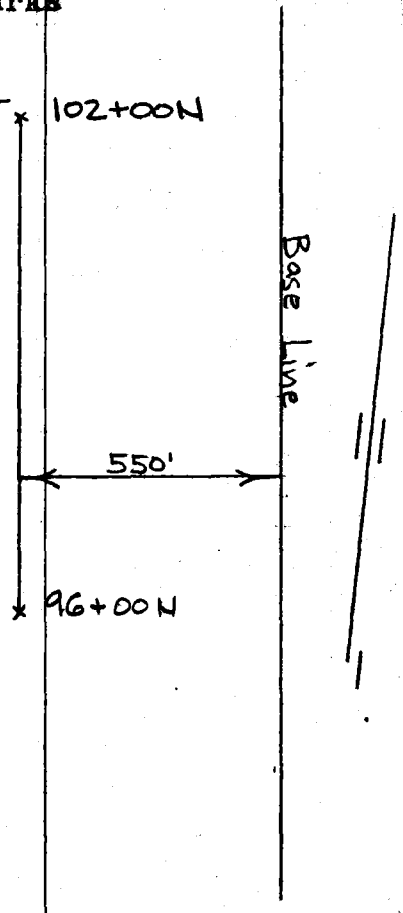
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	102+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
102+00 N (550' Offset) RANGE 102+00 N	96+00 N (550' Offset)	1	B&W	8:59	90°00'		
		2	R		90°00'	Range gun at	102+00N
		3	Y		90°00'		
		4	B&W	9:02	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	9:05	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	9:07	90°00'		
		11	R		90°00'		
		12	Y		90°00'		
		13	B&W	9:10	90°00'	Sight on cut-in gun at	96+00 N
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	9:12	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	9:14	90°00'		
		20	R		90°00'		



F.B. 1888 PG. 216 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Study Date Date X-Sec.
Survey by FHB Notes CEM 10/20/53 Notes Chkd. Checked No.
Indexed Date Date Date

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut In	100+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
N 3						
94+00N 550	21	Y		29° 24'		
	22	B & W	8 50	27° 28'		
	23	R		26° 28		
	24	Y		25° 14		
	25	B & W	8 52	24° 33		
	26	R		24° 07		
	27	Y		23° 22		
	28	B & W	8 54	22° 18		

Cut In 100+00N

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1888 Pg. 217

X-Sec. Notes Chkd. Checked Survey by [illegible] Notes [illegible] Date [illegible]

No. Date Date Map No. Indexed Date

76L298 307 8-53

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

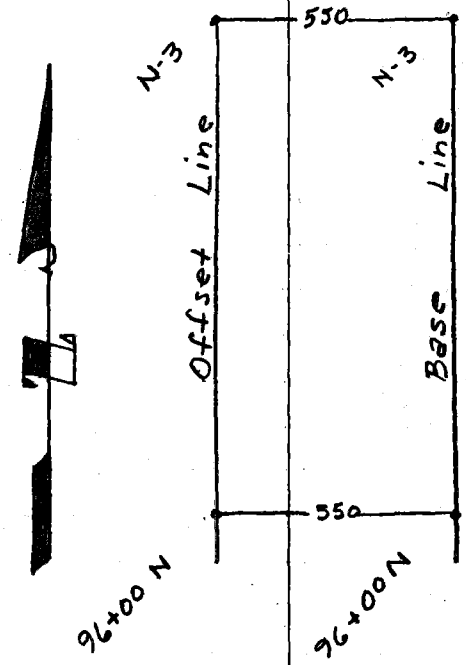
Do not extend notes this side of this line.

F. B. 1888 Pg. 218 Job No. 8412 Division No. Notes Red. Plotted No. Profile 12
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by F.H.B. Notes C.E.S. Notes Chkd. Checked
Indexed Date Date Date No.

Cut In 102+00N

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At 96+00 N Sight On N-3 550 Offset	#	Color	Time	Hor. Ang.	
	1	B & W	9:01	63° 32	
	2	R		67° 34	*
	3	Y		65° 46	
	4	B & W	9:04	64° 04	
	5	R		62° 31	
	6	Y		60° 51	
	7	B & W	9:06	58° 42	
	8	R		56° 44	
	9	Y		53° 43	
	10	B & W	9:08	51° 00	
	11	R		48° 56	
	12	Y		45° 32	
	13	B & W	9:11	42° 43	
	14	R		39° 04	
	15	Y		36° 43	
	16	B & W	9:13	33° 54	
	17	R		35° 26	
	18	Y		36° 02	
	19	B & W	9:15	33° 46	
	20	R		29° 36	

Cut In 102+00N



76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.			100X00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
21	Y		17.1 15.0	15.7	5.0	10.7	888	
22	B+W	8:50	16.1 13.16	14.2	5.0	9.2	862	
23	R		13.9 12.4	12.9	5.0	7.9	849	
24	Y		14.0 12.0	12.7	5.0	7.7	833	
25	B+W	8:51	13.4 10.9	11.7	5.0	6.7	824	
26	R		12.9 10.2	11.1	4.9	6.2	819	
27	Y		11.7 9.4	10.2	4.9	5.3	809	
28	B+W	8:53	10.3 8.3	9.0	4.9	4.1	796	
29	R							
30	Y							
31	B+W							
32	R							
33	Y							
34	B+W							
35	R							
36	Y							
37	B+W							
38	R							
39	Y							
40	B+W							

Profile Notes Red. CEM Plotted Job No. Division No.
Notes Chkd. Checked Survey By Notes Date
No. Date 1-6-54 Date Map No. Indexed Date
F. B. 1866 Pg. 8-9

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Boat	102+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1.	B&W	9:00	29.2 27.0	27.7	4.8	22.9	1755
2.	R		31.6 30.0	30.5	4.8	25.7	2002
3.	Y		30.2 29.0	29.4	4.8	24.6	1882
4.	B&W	9:02	30.0 27.0	28.0	4.8	23.2	1785
5	R		27.9 27.0	27.3	4.7	22.6	1703
6	Y		27.1 26.0	26.4	4.7	21.7	1625
7	B&W	9:04	26.0 25.5	25.7	4.7	21.0	1536
8	R		26.5 25.0	25.5	4.7	20.8	1464
9	Y		25.0 24.0	24.3	4.7	19.6	1366
10	B&W	9:07	24.1 22.5	23.0	4.7	18.3	1291
11	R		24.1 22.2	22.8	4.6	18.2	1239
12	Y		22.5 21.5	21.8	4.6	17.2	1160
13	B&W	9:10	22.1 21.0	21.4	4.6	16.8	1104
14	R		23.3 19.9	21.0	4.6	16.4	1038
15	Y		20.0 19.0	19.3	4.6	14.7	997
16	B&W	9:12	19.8 16.1	17.3	4.5	12.8	953
17	R		20.0 17.0	18.0	4.5	13.5	978
18	Y		20.2 18.0	18.7	4.5	14.2	986
19	B&W	9:14	19.0 18.0	18.3	4.5	13.8	951
20	R		17.4 15.0	15.8?	4.5	11.3?	891

Boat 102+00 N

Job No. 8412 Division No. 3 Notes Red. CEM Plotted Date 12/18/53 Checked Date 1-6-54 Notes Chkd. Date 10/20/53 Notes Date Survey of Survey by Indexed Profile No. X-Sec. No.

1888 Pg. 320

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	102+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B&W	9:16	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B&W	9:18	90°00'		
102+00 N	96+00 N	26	R		90°00'		
		27	Y		90°00'		
		28	B&W	9:22	90°00'		

Profile Notes Red. Plotted Job No. 8412 Division No.

F.B. 1888 PG. 221

Notes Chkd. Checked Survey by [illegible] Notes [illegible]

No. Date Date Map No. Indexed Date

RANGE 102+00 N

76L298 307 10-51

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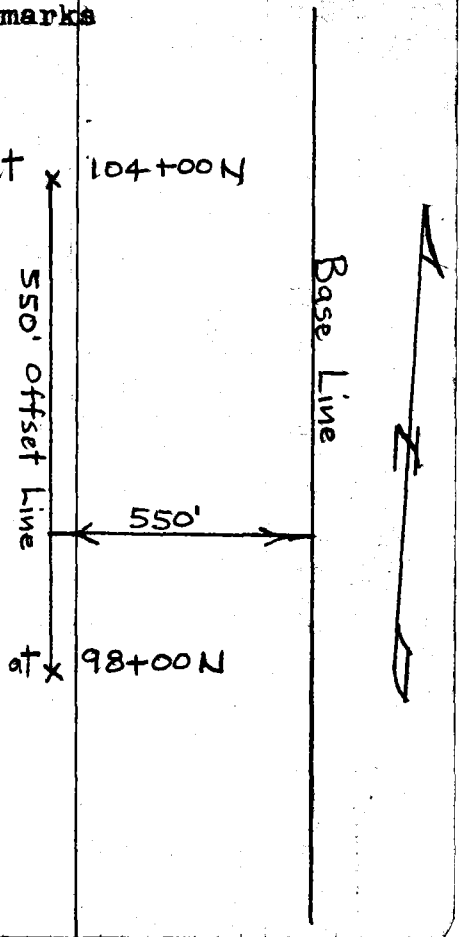
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	104+00N
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
104+00N (550' Offset Line) / 98+00N (550' Offset Line)	1	B&W	9:32	90°00'		
	2	R		90°00'		
	3	Y		90°00'	Range gun at	104+00N
	4	B&W	9:34	90°00'		
	5	R		90°00'		
	6	Y		90°00'		
	7	B&W	9:36	90°00'		
	8	R		90°00'		
	9	Y		90°00'		
	10	B&W	9:39	90°00'		
	11	R		90°00'		
	12	Y		90°00'		
	13	B&W	9:40	90°00'		
	14	R		90°00'	Sight on cut-in gun at	98+00N
	15	Y		90°00'		
	16	B&W	9:42	90°00'		
	17	R		89°45'		
	18	Y		90°00'		
	19	B&W	9:44	90°00'		
	20	R		90°00'		



F.B. 1888 PG. 222 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile
Survey of Beach Erosion Study Date ____ Date ____ No. ____
Survey by FHB Notes CEM 10/20/53 Notes Chkd. ____ Checked ____ X-Sec.
Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Cut In 102+00	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
	N-3						
96+00N	550	21	Y		27°29		
	offset	22	B & W	9:17	27°54 *		
		23	R		26°37		
		24	Y		25°18		
		25	B & W	9:19	24°04		
		26	R		24°11		
		27	Y		22°43		
		28	B & W	9:23	23°41 *		

Cut In

13 Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1888 Pg. 223

No. Date Date Survey of Beach Erosion Studies

No. Date Date Map No. Indexed Date

76L298 307 4-50

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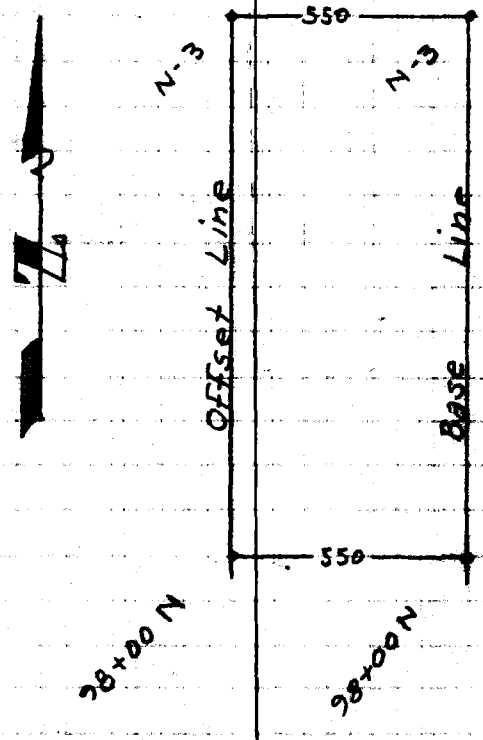
Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Cut In	104+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
98+00N	N-3 550 Offset	1	B & W	9:33	69° 25		
		2	R		67° 55		
		3	Y		66° 51		
		4	B & W	9:35	65° 20		
		5	R		64° 08		
		6	Y		62° 54		
		7	B & W	9:37	61° 04		
		8	R		58° 43		
		9	Y		56° 08		
		10	B & W	9:39	53° 38		
		11	R		52° 19		
		12	Y		49° 48		
		13	B & W	9:41	47° 33		
		14	R		47° 59		
		15	Y		45° 39		
		16	B & W	9:43	43° 12		
		17	R		40° 41		
		18	Y		38° 07		
		19	B & W	9:45	35° 15		
		20	R		33° 13		

Cut In 104+00N



F. B. 1888 Pg. 924 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by EHB Notes CES Notes Chkd. Checked Date No.
Indexed Date Date

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	102+00 N	~ BOAT
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		14.8 13.2	13.7	4.5	9.2	862
22	B+W	9:16	15.5 13.8	14.4	4.5	9.9	868
23	R		14.0 12.3	12.9	4.4	8.5	851
24	Y		13.0 11.0	11.7	4.4	7.3	834
25	B+W	9:18	12.2 11.0	11.4	4.4	7.0	818
26	R		12.9 10.0	11.0	4.4	6.6	820
27	Y		10.4 9.0	9.5	4.3	5.2	802
28	B+W	9:23	11.8 9.8	10.5	4.3	6.2	813
29	R						
30	Y						
31	B+W						
32	R						
33	Y						
34	B+W						
35	R						
36	Y						
37	B+W						
38	R						
39	Y						
40	B+W						

Profile No. ____ Date ____ Notes Red. CEM Date 12/15/53 Plotted ____ Date ____ Job No. 8412 Survey of ____ Division No. ____ F. B. 1810

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	104+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1.	B&W	9:32	31.2 30.1	30.5	4.1	26.4	2149
2.	R		31.2 28.2	29.2	4.1	25.1	2029
3.	Y		30.1 28.7	29.2	4.1	25.1	1952
4	B&W	9:34	29.8 26.0	27.3	4.1	23.2	1858
5	R		27.9 27.0	27.3	4.1	23.2	1787
6	Y		29.0 26.5	27.3	4.1	23.2	1722
7	B&W	9:36	26.6 25.0	25.5	4.1	21.4	1635
8	R		25.1 24.5	24.7	4.1	20.6	1537
9	Y		26.0 23.8	24.5	4.0	20.5	1444
10	B&W	9:38	25.6 23.0	23.9	4.0	19.9	1365
11	R		23.7 22.8	23.1	4.0	19.1	1326
12	Y		23.8 22.2	22.7	4.0	18.7	1260
13	B&W	9:40	22.9 20.5	21.3	4.0	17.3	1206
14	R		22.9 20.9	21.6	3.9	17.7	1216
15	Y		22.5 21.0	21.5	3.9	17.6	1165
16	B&W	9:42	22.1 20.1	20.8	3.9	16.9	1114
17	R		21.6 20.0	20.5	3.9	16.6	1066
18	Y		20.5 19.0	19.5	3.9	15.6	1020
19	B&W	9:43	20.5 17.5	18.5	3.9	14.6	975
20	R		18.0 16.0	16.7	3.9	12.8	943

Job No. 8412 Division No. Notes Red. CEM Plotted Profile
Survey of Beach Erosion Studies Date 12/18/53 Date No.
Survey by F.H.B. Notes 10/20/53 Notes Chkd. K.K. Checked X-Sec.
Indexed Date Date 1-6-54 Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	RANGE 104 +00 N

Inst. Sight At	Inst. Sight On	#	Color	Time	Hor. Ang.	Remarks
		21	Y		90°00'	
		22	B&W	9:46	90°00'	
		23	R		90°00'	
		24	Y		90°00'	
		25	B&W	9:47	90°00'	
		26	R		90°00'	
104 +00 N	98 +00 N	27	Y		90°00'	
		28	B&W	9:50	90°00'	
		29	R		90°00'	
		30	Y		90°00'	
		31	B&W	9:53	90°00'	
		32	R		90°00'	
		33	Y		90°00'	
		34	B&W	9:54	90°00'	
		35	R		90°00'	
		36	Y		90°00'	
		37	B&W	9:56	90°00'	

Profile No. ____ Date ____ Notes Red ____ Date ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of Beach Erosion Study

Map No. ____ Date ____ Indexed ____ Date ____

F. B. 1888 Pg. 227

76L298 307 4-50

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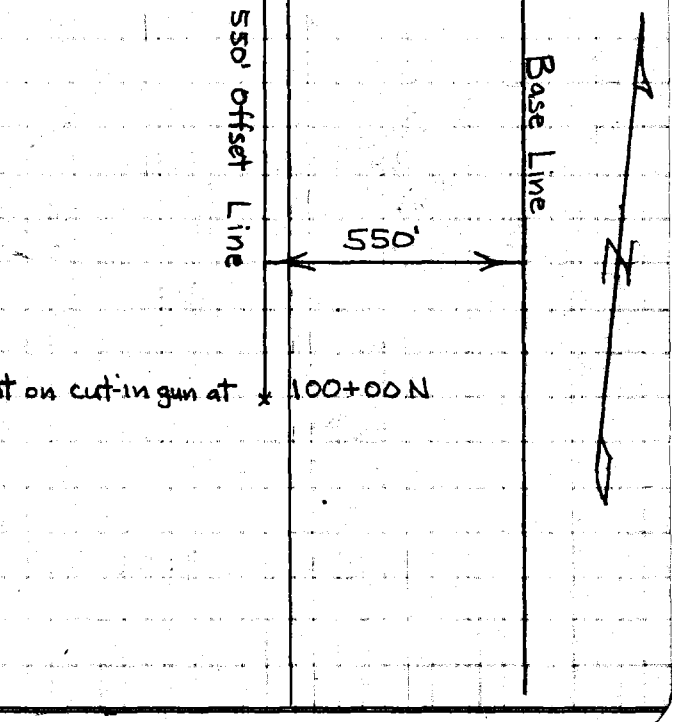
STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	106+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		1	B&W	10:07	90°00'		
		2	R		90°00'		
		3	Y		90°00'	Range gun at	106+00N
		4	B&W	10:11	90°00'		
		5	R		90°00'		
		6	Y		90°00'		
		7	B&W	10:13	90°00'		
		8	R		90°00'		
		9	Y		90°00'		
		10	B&W	10:16	90°00'		
106+00N	100+00N	11	R		90°00'		
		12	Y		90°00'		
		13	B&W	10:18	90°00'	Sight on cut-in gun at	100+00N
		14	R		90°00'		
		15	Y		90°00'		
		16	B&W	10:20	90°00'		
		17	R		90°00'		
		18	Y		90°00'		
		19	B&W	10:22	90°00'		
		20	R		90°00'		



F. B. 1888 Pg. 228 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No. X-Sec.
Survey by EHB Notes CEM 10/20/53 Notes Chkd. Checked
Indexed Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Cut In 104+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
98+00N	N-3 550' offset	21	Y		33°58	
		22	B & W	9:47	32°43	
		23	R		31°27	
		24	Y		29°52	
		25	B & W	9:49	27°43	
		26	R		28°09	*
		27	Y		29°20	*
		28	B & W	9:51	24°46	
		29	R		25°24	
		30	Y		27°25	*
		31	B & W	9:53	26°43	
		32	R		24°27	
		33	Y		25°29	*
		34	B & W	9:55	23°21	
		35	R		24°29	*
		36	Y		25°15	*
		37	B & W	9 57	25°57	*

15 Profile · Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1888 Pg. 229

No. ____ Date ____ Date ____ Survey of Beach Erosion Studies

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

PLEASE RETURN TO
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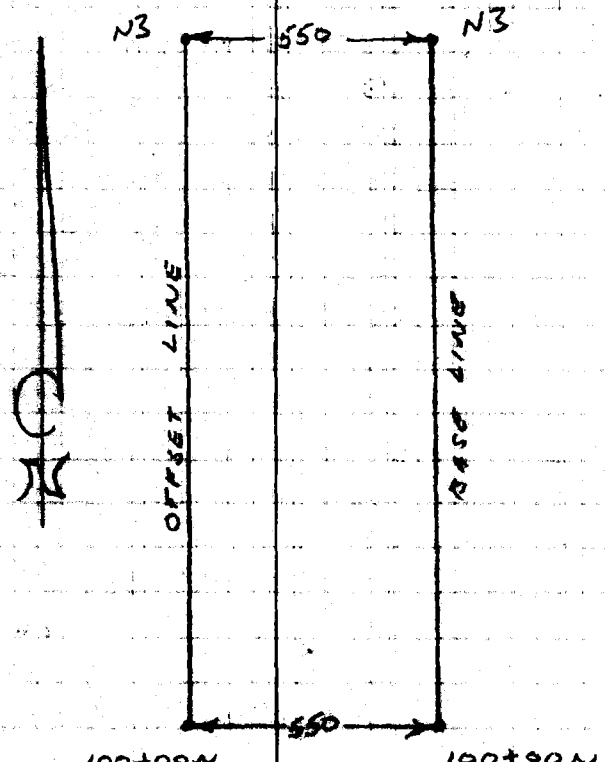
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	CUT-IN 106+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
100+00N	N-3	1	B+W	10:08	70°21	
550 OFF	550 OFF	2	R		68°28	
		3	Y		66°50	
		4	B+W	10:12	65°33	
		5	R		64°24	
		6	Y		63°03	
		7	B+W	10:14	61°30	
		8	R		61°48	*
		9	Y		60°15	
		10	B+W	10:17	58°11	
		11	R		56°39	
		12	Y		54°49	
		13	B+W	10:19	52°33	
		14	R		50°07	
		15	Y		47°26	
		16	B+W	10:21	45°17	
		17	R		42°55	
		18	Y		41°04	
		19	B+W	10:23	39°06	
		20	R		36°31	



NOTE: * BOAT WENT BACK OUT

Profile No. X-Sec. No.
Plotted Date Checked Date
Notes Red Date Notes Chkd Date
Division No. Job No. Notes Date
Survey of Survey by Indexed
F. B. [illegible] Pg. 720

76L298 307 10-51

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726 LOS ANGELES COUNTY
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NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	104+00 N
#	Color	Time	Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		18.0 / 17.0	17.3	3.9	13.4	954
22	B+W	9:46	17.4 / 16.3	16.7	3.8	12.9	935
23	R		17.9 / 15.8	16.5	3.8	12.7	917
24	Y		16.5 / 15.0	15.5	3.8	11.7	894
25	B+W	9:48	15.0 / 12.5	13.3	3.8	9.5	865
26	R		15.0 / 12.9	13.6	3.8	9.8	871
27	Y		16.0 / 14.0	14.7	3.8	10.9	887
28	B+W	9:49	11.5 / 10.0	10.5	3.8	6.7	827
29	R		12.9 / 10.5	11.3	3.8	7.5	835
30	Y		14.0 / 12.2	12.8	3.7	9.1	861
31	B+W	9:53	14.0 / 13.0	13.3	3.7	9.6	852
32	R		11.2 / 10.0	10.4	3.7	6.7	823
33	Y		12.7 / 10.0	10.9	3.7	7.2	836
34	B+W	9:55	11.0 / 8.0	9.0	3.6	5.4	809
35	R		10.9 / 9.0	9.6	3.6	6.0	823
36	Y		12.8 / 10.0	10.9	3.6	7.3	833
37	B+W	9.57	13.7 / 10.5	11.6	3.6	8.0	842
	R						
	Y						
	B+W						

Profile No. ____ Date ____ Notes Red CEM Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of ____ Map No. ____ Indexed ____ Date ____

F.B. 1888 Pg. 231

76L298 307 10-51

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	106+00
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	B+W	10:10	31.0 / 30.0	30.3	3.2	27.1	2230
2	R		30.4 / 29.0	29.5	3.2	26.3	2070
3	Y		30.0 / 27.2	28.1	3.2	24.9	1952
4	B+W	10:11	29.0 / 25.9	26.9	3.2	23.7	1870
5	R		26.8 / 25.9	26.2	3.2	23.0	1802
6	Y		27.0 / 26.0	26.3	3.2	23.1	1730
7	B+W	10:13	27.5 / 24.2	25.3	3.2	22.1	1657
8	R		26.9 / 24.5	25.3	3.2	22.1	1660
9	Y		25.8 / 24.2	24.7	3.1	21.6	1600
10	B+W	10:15	25.6 / 23.3	24.1	3.1	21.0	1516
11	R		24.8 / 21.9	22.9	3.1	19.8	1462
12	Y		23.3 / 22.0	22.4	3.1	19.3	1401
13	B+W	10:18	22.6 / 21.9	22.1	3.1	19.0	1333
14	R		22.0 / 21.0	21.3	3.1	18.2	1268
15	Y		22.1 / 20.0	20.7	3.0	17.7	1204
16	B+W	10:20	22.0 / 20.0	20.7	3.0	17.7	1156
17	R		21.0 / 19.2	19.8	3.0	16.8	1108
18	Y		20.1 / 18.8	19.2	3.0	16.2	1074
19	B+W	10:22	20.0 / 18.1	18.7	3.0	15.7	1038
20	R		18.7 / 17.1	17.6	3.0	14.6	994

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red CEM Date 12/18/53 Notes Chkd KK Date 1-6-54

Division No. Notes 10/20/53 Date

Job No. Survey of Survey by Indexed

B. 1898 PG. 232

761.298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	106+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
		21	Y		90°00'		
		22	B&W	10:24	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B&W	10:26	90°00'		
		26	R		90°00'		
		27	Y		90°00'		
106+00 N	100+00 N	28	B&W	10:28	90°00'		
		29	R		90°00'		
		30	Y		90°00'		
		31	B&W	10:30	90°00'		
		32	R		90°00'		
		33	Y		90°00'		
		34	B&W	10:33	90°00'		

Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of Beach Erosion Study

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1888 PG. 233

76L298 307 4-50

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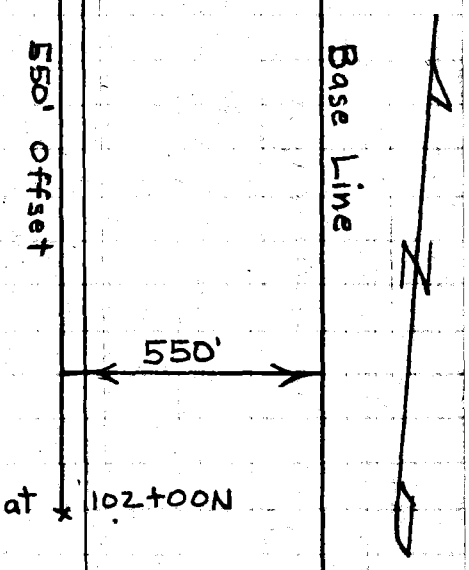
STATION Inst. Sight At	STATION Inst. Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	RANGE 108+00N Remarks
108+00N (550' Offset Line)	102+00N (550' Offset Line)	1	B&W	10:45	90°00'	
		2	R		90°00'	
		3	Y		90°00'	Range gun at 108+00N
		4	B&W	10:48	90°00'	
		5	R		90°00'	
		6	Y		90°00'	
		7	B&W	10:51	90°00'	
		8	R		90°00'	
		9	Y		90°00'	
		10	B&W	10:53	90°00'	
		11	R		90°00'	
		12	Y		90°00'	
		13	B&W	10:55	90°00'	
		14	R		90°00'	
		15	Y		90°00'	Sight on cut-in gun at 102+00N
		16	B&W	10:57	90°00'	
		17	R		90°00'	
		18	Y		90°00'	
		19	B&W	10:59	90°00'	
		20	R		90°00'	



F. S. 1888 Pg. 234 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Study Date Date No. X-Sec.
Survey by EHB Notes CEM 10/20/53 Notes Chkd. Checked
Indexed Date Date Date No.

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	CUT-IN 106+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
100+00N N-3	21	Y		34°22	
550 OFF 550 OFF	22	B&W	10:25	32°37	
	23	R		33°50 *	
	24	Y		31:10	
	25	B&W	10:27	29°31	
	26	R		31°30 *	
	27	Y		29°08	
	28	B&W	10:29	29°55 *	
	29	R		28°19	
	30	Y		26°15	
	31	B&W	10:31	26°42 *	
	32	R		24°16	
	33	Y		22°42	
	34	B&W	10:35	24°37 *	

NOTE: * BOAT WENT BACK

Profile No. ____ Date ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ Survey of [illegible] Map No. ____ Indexed ____ Date ____

F. B. 1888 Pg. 235

76L298 307 4-50

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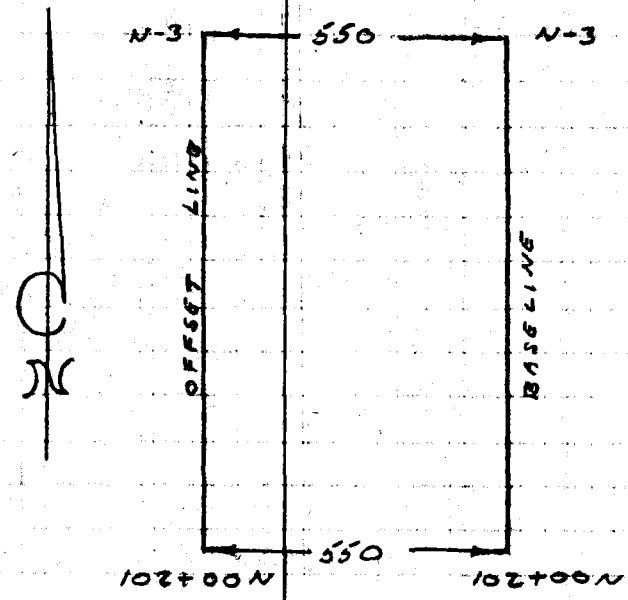
Do not extend notes this side of this line.

CUT-IN 108+00N

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.
102+00N	N-3	1	B&W	10 45	66° 30
550 off	550 off	2	R		64° 12
		3	Y		62° 21
		4	B&W	10 48	62° 21
		5	R		59° 45
		6	Y		57° 35
		7	B&W	10 50	57° 38
		8	R		56° 09
		9	Y		54° 25
		10	B&W	10 52	52° 10
		11	R		49° 08
		12	Y		45° 41
		13	B&W	10 54	43° 07
		14	R		40° 44
		15	Y		37° 41
		16	B&W	10 57	38° 19
		17	R		35° 44
		18	Y		33° 42
		19	B&W	10 59	32° 12
		20	R		30° 54

Remarks



F. S. 9888 PS 2 3/4

Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F H B Notes JS Notes Chkd. Checked X-Sec.
Indexed Date 10/20/53 Date Date No.

76L298 307 10-51

PLEASE RETURN TO
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726 LOS ANGELES COUNTY
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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	BOAT	106+00

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y		18.0 16.0	16.7	3.0	13.7	960
22	B&W	10:24	17.0 14.5	15.3	2.9	12.4	934
23	R		17.0 15.2	15.8	2.9	12.9	953
24	Y		15.6 14.0	14.5	2.9	11.6	913
25	B&W	10:26	14.6 12.0	12.9	2.9	10.0	890
26	R		16.3 15.0	15.4	2.9	12.5	918
27	Y		14.3 12.3	13.0	2.8	10.2	884
28	B&W	10:28	15.7 13.0	13.9	2.8	11.1	895
29	R		14.1 12.0	12.7	2.8	9.9	874
30	Y		13.0 10.8	11.5	2.8	8.7	846
31	B&W	10:30	12.0 10.1	10.7	2.8	7.9	852
32	R		10.8 8.0	8.9	2.8	6.1	821
33	Y		8.2 7.0	7.4	2.8	4.6	801
34	B&W	10:31	11.8 8.7	9.9	2.8	7.1	825

Profile No.____ Notes Red CEM Plotted____ Job No.____ Division No.____
Date____ Date____ Date____ Survey of____
No.____ Date 1-8-57 Date____ Map No.____ Indexed____ Date____

F.B. 18888 PG. 237

76L298 307 10-51

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT		108+00 N
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1	B&W	10:45	29.0 27.0	27.7	2.4	25.3	1930	
2	R		28.0 25.4	26.3	2.4	23.9	1791	
3	Y		27.0 23.9	24.9	2.4	22.5	1696	
4	B&W	10:47	26.8 24.5	25.3	2.4	22.9	1696	
5	R		24.9 23.9	24.2	2.3	21.9	1578	
6	Y		24.3 22.0	22.8	2.3	20.5	1494	
7	B&W	10:50	24.5 22.9	23.4	2.3	21.1	1496	
8	R		24.5 22.0	22.8	2.3	20.5	1444	
9	Y		23.2 20.9	21.7	2.3	19.4	1339	
10	B&W	10:52	24.1 20.1	21.4	2.3	19.1	1322	
11	R		22.0 20.0	20.7	2.2	18.5	1243	
12	Y		20.5 19.0	19.5	2.2	17.3	1165	
13	B&W	10:54	20.8 19.0	19.6	2.2	17.4	1131	
14	R		19.6 18.0	18.5	2.2	16.3	1066	
15	Y		18.1 16.2	16.8	2.2	14.6	1014	
16	B&W	10:56	19.0 16.9	17.6	2.1	15.5	1025	
17	R		17.4 15.0	15.8	2.1	13.7	982	
18	Y		15.9 14.5	15.0	2.1	12.9	950	
19	B&W	10:58	18.1 14.3	15.6	2.1	13.5	928	
20	R		15.0 13.1	13.7	2.1	11.6	909	

F.B. 1888 PG. 238

Job No. ____ Division No. ____ Notes Red. CEM Date 12/18/53 Plotted ____ Date ____ No. ____ Profile

Survey of ____ Notes ____ Date ____ Notes Chkd. [illegible] Date 1-6-54 Checked ____ Date ____ No. ____ X-Sec.

Survey by ____ Date ____ Date ____ Date ____ No. ____

Indexed ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	RANGE	108+00N
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
		21	Y		90°00'		
		22	B&W	11:01	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B&W	11:04	90°00'		
		26	R		90°00'		
108+00N	102+00N	27	Y		89°48'	Waved red, not yellow	
		28	B&W	11:05	90°00'		

Profile No.____ Date____ Notes Red No.____ Date____ Plotted____ Date____ Job No. 8412 Division No.____ Survey of Beach [illegible] Map No.____ Indexed____ Date____

F. B. 1888 PG. 238

76L298 307 4-50

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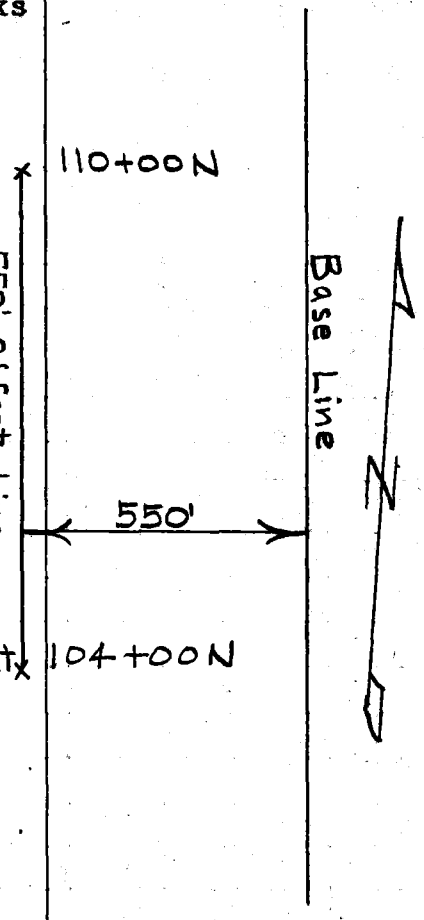
STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	110+00N
Inst. At 110+00N (550' Offset Line) Sight On 104+00N (550' Offset Line)	#	Color	Time	Hor. Ang.	Remarks	
	1	B&W	11:13	90°00'		
	2	R		90°00'		
	3	Y		90°00'	Range gun at	110+00N
	4	B&W	11:16	90°00'		
	5	R		90°00'		
	6	Y		90°00'		
	7	B&W	11:18	90°00'		
	8	R		90°00'		
	9	Y		90°00'		
	10	B&W	11:20	90°00'		
	11	R		90°00'		
	12	Y		89°50'		
	13	B&W	11:22	90°00'		
	14	R		90°00'	Sight on cut-in gun at	104+00N
	15	Y		90°00'		
	16	B&W	11:23	90°00'		
	17	R		90°00'		
	18	Y		90°00'		
	19	B&W	11:25	90°00'		
	20			90°00'		



F. B. 1888 Pg. 246
Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of Beach Erosion Study Date ____ Date ____ No. ____
Survey by FHB Notes CEM 10/20/53 Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	[redacted]	
102+00 N-3	21	Y		29° 25		
	22	B+W	11:00	28° 24		
	23	R		27° 27		
	24	Y		27° 39		
	25	B+W	11 03	30° 08		
	26	R		29° 49		
	27	Y		29° 03		
	28	B+W	11 05	25° 52		

Profile Notes Red. ____ Plotted ____ Job No. 8417 Division No. ____ F. B. 1288 Pg. 241

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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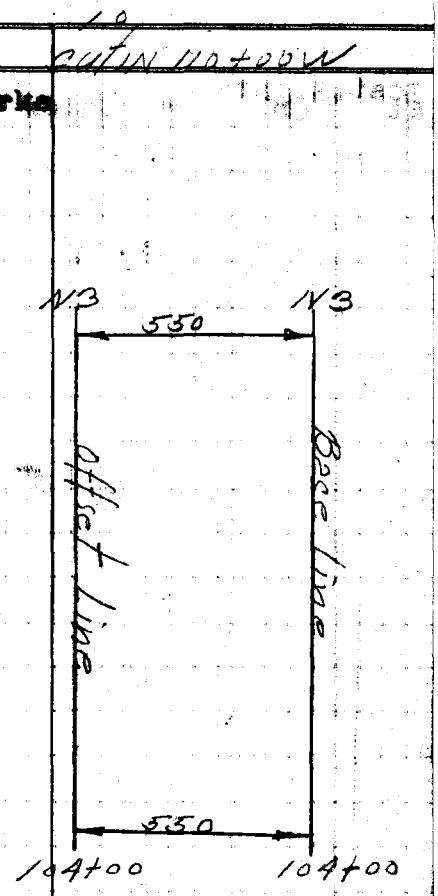
STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		
104+00 off	N-3 550 off	1	B+W	11 12	64° 29		
		2	R		65° 51		
		3	Y		68° 15		
		4	B+W	11 15	66° 52		
		5	R		64° 37		
		6	Y		62° 15		
		7	B+W	11 18	62° 28		
		8	R		60° 39		
		9	Y		59° 00		
		10	B+W	11 20	56° 45		
		11	R		54° 47		
		12	Y		53° 15		
		13	B+W	11 22	51° 01		
		14	R		48° 27		
		15	Y		45° 36		
		16	B+W	11 23	43° 34		
		17	R		40° 17		
		18	Y		40° 50 *		
		19	B+W	11 25	37° 46		
		20	R		34° 01		



F. B. 1888 Pg. 242
Survey of Beach Erosion Studies
Survey by FHB
Indexed
Job No. 8912 Division No.
Notes JS
Date 10/20/53
Notes Red. Date
Notes Chkd. Date
Plotted Date
Checked Date
Profile No.
X-Sec. No.

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.			108+00
Inst. At	Sight On	Tiny	~~Color~~	~~Time~~	Hor. Ang.		Remarks	
21	Y		16.0 / 13.0	14.0	2.0	12.0	888	
22	B&W	11:01	13.1 / 11.9	12.3	2.0	10.3	874	
23	R		13.1 / 10.0	11.0	2.0	9.0	862	
24	Y		14.0 / 10.0	11.3	2.0	9.3	864	
25	B&W	11:04	14.0 / 11.9	12.6	2.0	10.6	898	
26	R		15.0 / 12.0	13.0	2.0	11.0	893	
27	Y		14.5 / 11.0	12.2	1.9	10.3	884	
28	B&W	11:06	12.1 / 9.0	10.0	1.9	8.1	841	
29	R							
30	Y							
31	B&W							
32	R							
33	Y							
34	B&W							
35	R							
36	Y							
37	B&W							
38	R							
39	Y							
40	B&W							

Profile Notes Red. CEM Plotted Job No. 1412 Division No.
No. Date 1-6-54 Date Map No. Indexed Date
F. B. 1888 PG. 243

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	110+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
1.	B&W	11:13	27.0 25.1	25.8	1.8	23.9 ~~24.0~~	1808
2.	R		27.6 25.0	25.9	1.8	24.1	1889
3.	Y		29.1 27.1	27.8	1.7	26.1	2052
4.	B&W	11:15	29.7 26.9	27.8 ~~27.2~~	1.7	26.1 ~~25.5~~	1952
5	R		28.0 25.3	26.2	1.7	24.5	1814
6	Y		25.1 23.5	24.0	1.7	22.3	1690
7	B&W	11:17	25.7 23.5	24.2	1.7	22.5	1701
8	R		24.8 22.9	23.5	1.7	21.8	1618
9	Y		24.1 22.0	22.7	1.7	21.0	1549
10	B&W	11:20	23.0 21.8	22.2	1.6	20.6	1464
11	R		22.4 21.2	21.6	1.6	20.0	1400
12	Y		22.7 19.9	20.8	1.6	19.2	1354
13	B&W	11:22	21.0 19.1	19.7	1.6	18.1	1291
14			20.9 19.1	19.7	1.6	18.1	1228
15			21.0 18.7	19.5	1.6	17.9	1162
16	B&W	11:23	19.9 17.6	18.4	1.5	16.9	1120
17			18.3 16.1	16.8	1.5	15.3	1059
18			18.0 17.0	17.3	1.5	15.8	1069
19	B&W	11:25	17.5 15.5	16.2	1.5	14.7	1015
20	R		18.2 14.2	15.5	1.5	14.0	955

Profile
Plotted
Date
X-Sec.
Checked
Date
Notes Red. CEM
Date 12/18/53
Notes Chkd. KK
Date 1-6-54
Division No.
Job No.
Notes
Date
Survey of
Survey by
Indexed
F. B. 1888 Pg. 244

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	110+00 N
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21	Y		90° 00'		
	22	B&W	11:28	90° 00'		
	23	R		90° 00'		
	24	Y		89° 40'		
	25	B&W	11:30	90° 00'		
	26	R		90° 00'		
110+00 N 100+00 N	27	Y		90° 00'		
	28	B&W	11:32	90° 00'		

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1888 Pg. 241

No. ____ Date ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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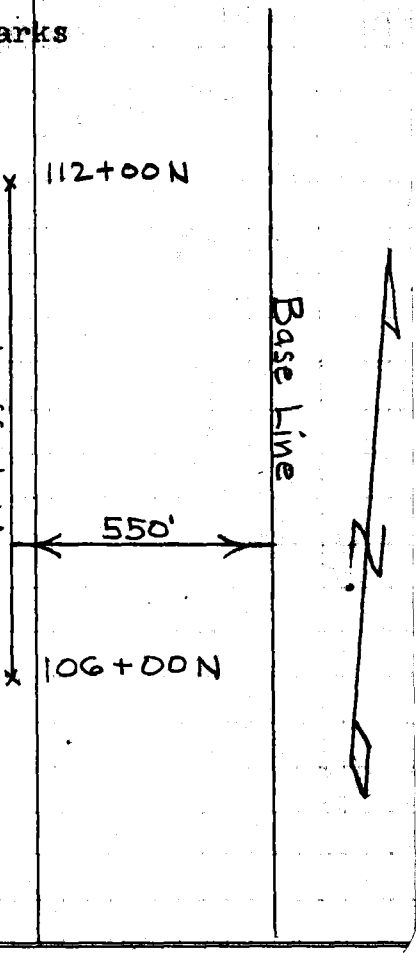
STATION	B. S.	H. I.	F. S.	ELEV.	RANGE	112+00N
Inst. Sight At / On	#	Color	Time	Hor. Ang.	Remarks	
112+00N (550' Offset Line) / 106+00N (550' Offset Line)	1	BEW	11:41	90° 00'		
	2	R		90° 00'		
	3	Y		90° 00'	Range gun at	112+00N
	4	BEW	11:44	90° 00'		
	5	R		90° 00'		
	6	Y		90° 00'		
	7	BEW	11:46	90° 00'		
	8	R		90° 00'		
	9	Y		90° 00'		
	10	BEW	11:48	90° 09'		
	11	R		90° 00'		
	12	Y		90° 00'		
	13	BEW	11:50	90° 00'		
	14	R		90° 00'	Sight on cut-in gun at	106+00N
	15	Y		90° 00'		
	16	BEW	11:52	90° 00'		
	17	R		90° 00'		
	18	Y		90° 00'		
	19	BEW	11:54	90° 00'		
	20	R		90° 00'		



F. B. 1888 Pg. 14
Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile
Survey of Beach Erosion Study Date ____ No. ____ X-Sec.
Survey by EHB Notes CEM 10/20/53 Notes Chkd. ____ Checked ____
Indexed ____ Date ____ Date ____ Date ____ No. ____

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
104+00	N-3	21	Y		31° 17		
		22	B+W	11 27	27° 28		
		23	R		29° 35	*Boat went Back out	
		24	Y		27° 23		
		25	B+W	11 29	27° 57	*	
		26	R		25° 14		
		27	Y		23° 28		
		28	B+W	11 31	25° 48		

Profile Notes Red. ____ Plotted ____ Job No. 8912 Division No. ____ F. B. 1888 Pg. 247

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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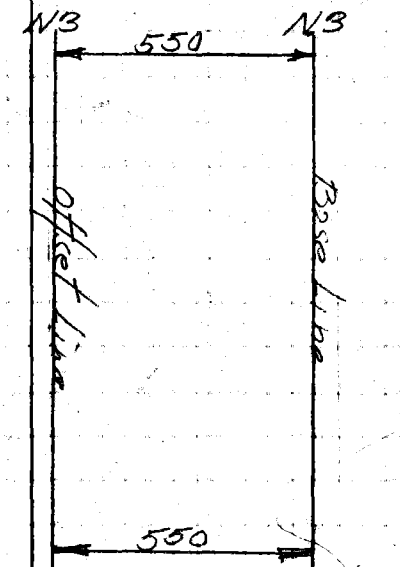
12

CUT IN 112+00 W

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
106+00 550 off	N-3 550 off	1	B+W	11 41	68° 57	
		2	R		66° 51	
		3	Y		65° 42	
		4	B+W	11 43	60° 33	
		5	R		61° 33	
		6	Y		59° 58	
		7	B+W	11 45	57° 28	
		8	R		55° 09	
		9	Y		52° 59	
		10	B+W	11 47	50° 19	
		11	R		47° 23	
		12	Y		43° 49	
		13	B+W	11 50	40° 03	
		14	R		37° 38	
		15	Y		33° 50	
		16	B+W	11 52	33° 11	
		17	R		31° 13	
		18	Y		31° 36 *	
		19	B+W	11 54	31° 17	
		20	R		29° 02	



F. S. 1888 Pg. 348
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E H B Notes J.S. Notes Chkd. Checked X-Sec.
Indexed Date 10/20/53 Date Date No.

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Boat	110+00

Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
21	Y		14.9 / 12.9	13.6	1.5	12.1	915
22	B&W	11:27	14.0 / 10.0	11.3	1.5	9.8	862
23	R		14.6 / 12.0	12.9	1.5	11.4	890
24	Y		11.7 / 10.0	10.6	1.5	9.1	861
25	B&W	11:29	13.7 / 10.4	11.5	1.5	10.0	868
26	R		11.4 / 9.0	9.8	1.4	8.4	833
27	Y		9.6 / 6.0	7.2	1.4	5.8	810
28	B&W	11:32	10.0 / 8.0	8.7	1.4	7.3	840
29	R						
30	Y						
31	B&W						
32	R						
33	Y						
34	B&W						
35	R						
36	Y						
37	B&W						
38	R						
39	Y						
40	B&W						

Profile Notes Red CEM Plotted ____ Job No. ____ Division No. ____ F. B. 1888 Pg. 245

No. ____ Date 1-8-59 Date ____ Map No. ____ Indexed ____ Date ____

Survey of

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	112+00 N
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
1	B&W	11:41	30.0 27.2	28.1	1.2	26.9	2109
2	R		27.7 25.0	25.9	1.2	24.7	1951
3	Y		26.3 25.0	25.4	1.2	24.2	1878
4	B&W	11:43	25.8 24.0	24.6	1.2	23.4	1756
5	R		24.6 22.9	23.5	1.2	22.3	1649
6	Y		24.0 22.0	22.7	1.2	21.5	1589
7	B&W	11:45	23.1 22.0	22.4	1.2	21.2	1490
8	R		22.0 20.9	21.3	1.2	20.1	1410
9	Y		21.9 20.1	20.7	1.2	19.5	1345
10	B&W	11:47	21.1 19.0	19.7	1.2	18.5	1272
11	R		20.4 18.3	19.0	1.1	17.9	1205
12	Y		19.9 17.0	18.0	1.1	16.9	1126
13	B&W	11:49	18.0 17.0	17.3	1.1	16.2	1055
14	R		18.0 16.0	16.7	1.1	15.6	1013
15	Y		15.9 14.8	15.2	1.1	14.1	953
16	B&W	11:51	15.3 13.7	14.2	1.1	13.1	942
17	R		13.4 12.2	12.6	1.1	11.5	914
18	Y		14.1 12.4	13.0	1.1	11.9	920
19	B&W	11:53	13.1 12.9	13.0	1.1	11.9	915
20	R		13.0 11.6	12.1	1.1	11.0	883

F. B. 1888 Pg. 250

Job No. ____ Division No. ____ Notes Red CEM Date 12/18/53 Plotted ____ Date ____ Profile ____ No. ____

Survey of ____ Notes 10/20/53 Notes Chkd K K Checked ____ X-Sec. ____ No. ____

Survey by ____ Date 1-6-54 Date ____

Indexed ____

76L298 307 4-50

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STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	RANGE Remarks	112+00N
		21	Y		90°00'		
		22	B&W	11:55	90°00'		
		23	R		90°00'		
		24	Y		90°00'		
		25	B&W	11:57	90°00'		
112+00N	106+00N	26	R		90°00'		
		27	Y		90°00'		

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1888 Pg. 251

No. Date Date Survey of Bank Erosion Study

No. Date Date Map No. Indexed Date

F. B. 1188 Pg. 252

Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

76L298 307 4-56

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LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	

76L298 307 4-50

[redacted] LEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
106+00	N-3	21	Y		29° 09		
		22	B+W	11 55	29° 08		
		23	R		28° 48		
		24	Y		28° 09		
		25	B+W	11 56	27° 24		
		26	R		25° 06		
		27	Y		26° 32 *		

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1888 Pg. 253

No. ____ Date ____ Date ____ Survey of ____

No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.		
~~Inst. Sight~~ At	On	#	Color	Time	Hor. Ang.	Remarks	

Survey of Beach Erosion Studies
Survey by FHB
Indexed
Job No. 3412 Division No.
Notes Red. Date
Notes Chkd. Date
Plotted Date
Checked Date
Profile No.
X-SEC. No.
F. B. 1888 PG. 254

76L298 307 4-50

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	BOAT	112+00
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
21	Y		12.6 10.9	11.5	1.1	10.4	885
22	B+W	11.55	12.5 11.2	11.6	1.1	10.5	885
23	R		13.5 10.5	11.5	1.0	10.5	880
24	Y		12.9 10.6	11.4	1.0	10.4	871
25	B+W	11:57	11.5 9.8	10.4	1.0	9.4	861
26	R		10.0 7.9	8.6	1.0	7.6	831
27	Y		11.8 8.8	9.8	1.0	8.8	850
28	B+W						
29	R						
30	Y						
31	B+W						
32	R						
33	Y						
34	B+W						
35	R						
36	Y						
37	B+W						
38	R						
39	Y						
40	B+W						

Profile Notes Red CEM Plotted Job No. Division No.
No. Date Date Survey of
No. Date 1-6-52 Date Map No. Indexed Date

F. B. 1488 Pg. 255

F. B. 1880 Pg. 256

Job No. _____ Division No. _____ Notes Red. _____ Plotted _____

Survey of _____ Date _____ Date _____

Survey by _____ Notes _____ Notes Chkd. _____ Checked _____

Indexed _____ Date _____ Date _____ Date _____

Profile

Inst. Bigh

At

On

Remarks