Notes Ck'd by	Survey of Beach Erosion Studies	F.B. [illegible] Pg. 5
Map No.	W. O. 8412 Tape No. 129 St'd 84 °F	
Office Work	Surveyed by Blanchard	
Checked	Notes Blanchard Date 3-10-53	
Date	Indexed E. C. Johnson	

BEACH EROSION STUDIES

J.N. 8412

FROM MALAGA BAY NORTH TO EL SEGUNDO BREAK WATER

FEB. – MARCH – 1953

REF			
FB-930	Blanchard SHOEMAKER STANGELAND LIHARRIET ANDERSON VOGE GRANT SCHONFELDT KVAMMEN	SNYDER HAND SANDAVOL	ENGLISH CURTIS PETERSON WILLIAM

Changes on This Circled in Red of Lines

LOS

6FROGS 247 2-51

F.B. 1298 PG. 6

Tide Readings

Page	Date
7	16 Feb. 1953
25	17 Feb. 1953
43 & 54	20 Feb. 1953
79	24 Feb. 1953
123	25 Feb 1953
137	2 March 1953
149	3 March 1953
182A	4 March 1953
219	5 March 1953
53	19 Feb. 1953

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725 LOS ANGELES COUNTY
ENGINEERING BLDG.
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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.

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

F. B. 1298 Pg. 7

TIME	GAGE
10:00	5.6
1030	5.6
1100	5.6
1130	5.3
1200	4.8
1230	4.4
1300	3.7
1330	3.0
1400	2.1

MONDAY FEB 16, 1953

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76F309S 247 2-51

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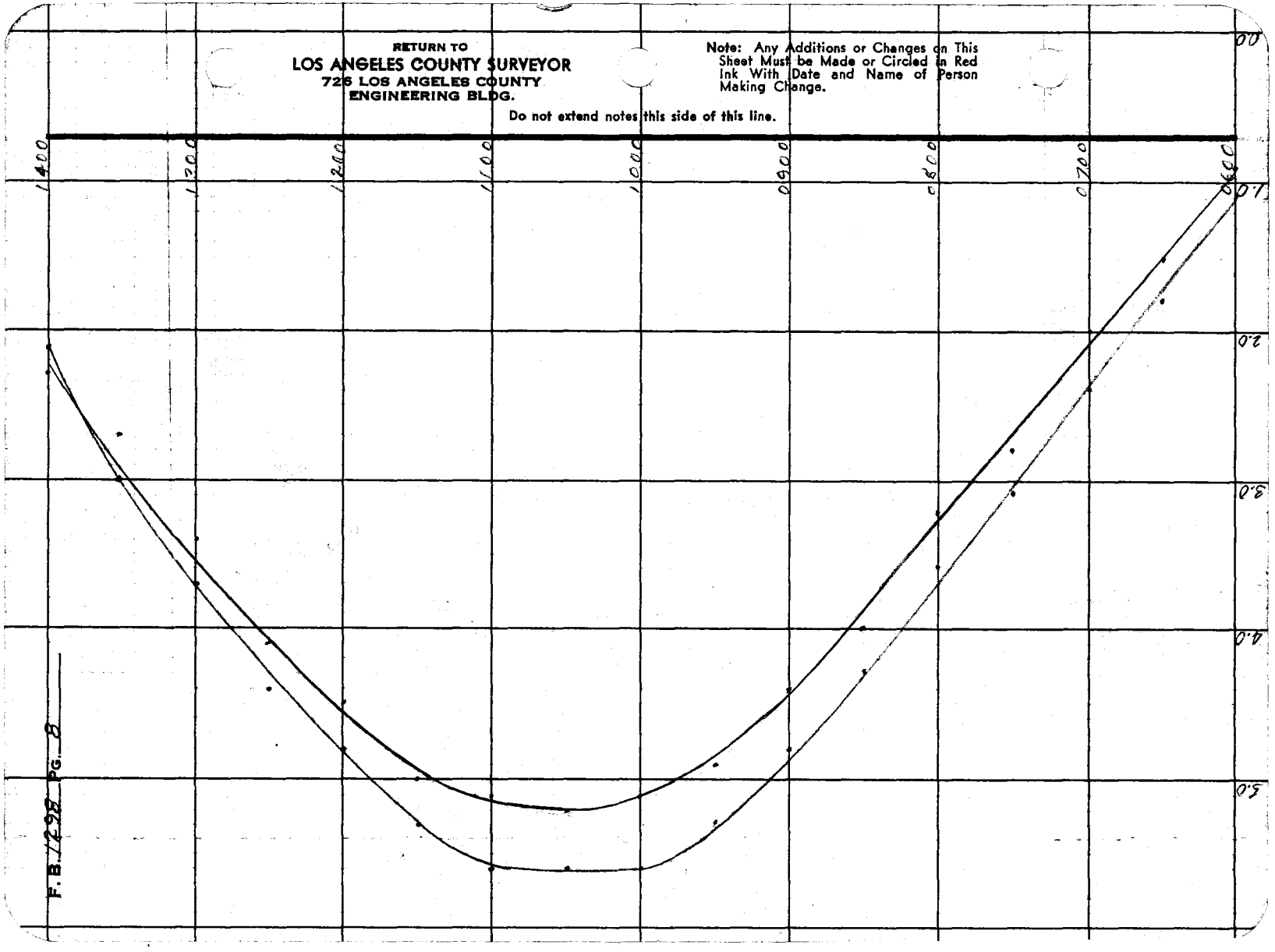

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1298	Pg. 9
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by English	Notes English	Date 2-16-53	
No.	Date	Date	Map No.	Indexed [redacted]	Date	

J.N. 8412

BEACH EROSION STUDIES

CROSS-SECTIONS

from

428+19 S

to

Feb. 16, 1953

English
Curtis
Peterson
Williams

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

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76L298 307 4-50

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.			
					Cut-In ∡ Inst. at 425+19 Sight on S-29		
428+19	3 15	11 88		8 73		✓	1 X 2
19⁵ R.			0 0	11 8		✓	Toe Slope
32° L.			6 2	5 7		✓	Slope
T. P.	2 48	6 75	7 61	4 27			rock
			5 7	1 0	22°43'	141 ✓	under water
			7 1	-0 4	31°55'	219 ✓	" "
			8 0	-1 3	38°28'	290 ✓	" "
			9 3	-2 6	44°04'	371 ✓	" "
			10 6	-3 9	47°19'	430 ✓	" "
			11 3	-4 6	50°00'	485 ✓	" "

Inshore 428+19 S

F. B. 1298 Pg. 10 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked
Indexed H. C. Johnson Date Date 4-17-53 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 RANGE 428+19 S
428+19	S-29	1	B&W	11 49	78° 21'	✓	
		2	R	-	78 58	✓	
		3	Y		78 04	✓	
		4	B&W	11 54	77 49	✓	
		5	R		78 12	✓	
		6	Y		77 47	✓	
		7	B&W	12 03	79 05	✓	
		8	R		78 21	✓	
		9	Y		77 20	✓	
		10	B&W	12 08	77 05	✓	
		11	R		78 21	✓	
		12	Y		78 21	✓	
		13	B&W	12 14	78 21	✓	
		14	R		77 45	✓	
		15	Y		81 16	✓	
		16	B&W	12 18	76 50	✓	
		17	R		80 07	✓	
		18	Y		79 09	✓	
		19	B&W	12 22	80 06	✓	

RANGE 428+19 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1298 Pg. 11
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-16-53
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. Hor. Ang.		Remarks RANGE 423+19 S
423+19	S-29	1	B & W	12 32	79° 18'	✓	RANGE 423+19S
		2	R		78 21	✓	
		3	Y		78 21	✓	
		4	B & W	12 46	79 03	✓	
		5	R		79 47	✓	
		6	Y		78 21	✓	
		7	B & W	12 52	79 50	✓	
		8	R		77 02	✓	
		9	Y		78 21	✓	
		10	B & W	12 58	77 32	✓	
		11	R		77 21	✓	
		12	Y		77 04	✓	
		13	B & W	1 10	77 33	✓	
		14	R		78 21	✓	
		15	Y		79 04	✓	
		16	B & W	1 15	81 11	✓	
		17	R		77 32	✓	

RANGE 423+19S

2-16-53

F. B. 1298 Pg. 12 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked
Indexed E. C. Johnson Date Date Date No.

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STATION		B. S.	H. I.	F. S.	ELEV.		428+19
Inst. Sight At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-28	S-29	1	B&W	11 49	60 06	✓	Cut in
		2	R		59 34	✓	CUT IN 428+19S
		3	Y		58 21	✓	
		4	B&W	11 53	57 51	✓	
		5	R		57 25	✓	
		6	Y		57 11	✓	
		7	B&W	12 03	56 51	✓	
		8	R		55 25	✓	
		9	Y		53 18	✓	
		10	B&W	12 08	51 47	✓	
		11	R		51 27	✓	
		12	Y		49 31	✓	
		13	B&W	12 13	48 30	✓	
		14	R		46 45	✓	
		15	Y		46 44	✓	
		16	B&W	12 17	42 40	✓	
		17	R		43 25	✓	
		18	Y		39 17	✓	
		19	B&W	12 22	38 02	✓	

Profile Notes Red. ____ Plotted ____ Job No. 841 Division No. ✓ F.B. 1298 Pg. 13
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by EHP Notes ____ Date 2-16-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date 1-28-56

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STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
428+19	5-28	1	B&W	12 32	81 59	✓	Cut in 423+19
		2	R		82 49	✓	CUT IN 423+19 S
		3	Y		80 38	✓	
		4	B&W	12 46	78 54	✓	
		5	R		76 02	✓	
		6	Y		76 11	✓	
		7	B&W	12 52	71 57	✓	
		8	R		73 01	✓	
		9	Y		69 26	✓	
		10	B&W	12 58	68 56	✓	
		11	R		67 19	✓	
		12	Y		63 25	✓	
		13	B&W	1 10	61 54	✓	
		14	R		59 44	✓	
		15	Y		56 02	✓	
		16	B&W	1 15	53 52	✓	
		17	R		55 14	✓	

2-16-53

F. S. 1298 Pg. 14
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date No. X-Sec.
Survey by FHB Notes Chkd. Checked
Indexed C. Johnson Date Date No.

76L298 307 5-49

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BOAT

Do not extend notes this side of this line. RANGE 428+19 S

STATION #	COLOR	B. S. TIME	H. I. MEAS. DEPTH	F. S. BOTTOM	ELEV. TIDE	ADJUSTED DEPTH	Distance	REMARKS
1	BW	11 48	335 311	31.9	5.1	26.8	1580	STANGELAND LEAD
2	R		313 289	29.7	5.1	24.6	1488	KVAMMEN RECORD
3	Y		303 280	28.8	5.0	23.8	1440	SCHONFELDT OARS
4	BW	11 54	290 269	27.6	5.0	22.6	1411	
5	R		289 258	26.8	5.0	21.8	1397	
6	Y		272 248	25.6	4.9	20.7	1370	
7	BW	12 03	268 240	24.9	4.9	20.0	1260	
8	R		263 230	24.1	4.8	19.3	1208	
9	Y		240 219	22.6	4.8	17.8	1121	
10	BW	12 09	228 200	20.9	4.7	16.2	1050	
11	R		212 187	19.5		14.8	988	
12	Y		200 176	18.4		13.7	901	
13	BW	12 13	184 165	17.1	4.7	12.4	860	
14	R		169 147	15.4	4.7	10.7	805	
15	Y		161 131	14.1	4.6	9.5	740	
16	BW	12 17	158 120	13.3	4.6	8.7	668	
17	R		140 110	12.0		7.4	656	
18	Y		122 95	10.4		5.8	564	
19	BW	12 22	109 81	9.0	4.6	4.4	526	

BOAT 428+19 S

Profile No. ____ Notes Red. PCW Plotted ____ Job No. 8412 Division No. ✓ F.B. 1298 Pg. 15
Date 4-15-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. KRK Checked ____ Survey by FHB Notes KRK Date 2-16-53
Date 4-23-53 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 5-49

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BOAT

Do not extend notes this side of this line. 423+195

F.B. 128 PG. 16
Profile No.
X-Sec. No.
Job No. 841
Division No.
Notes Red Plotted
Date 4-15-53 Date
Notes Chkd. KRK Checked
Date 4-23-53 Date
Survey of BEACH & ROSTON STROKES
Survey by KRK
Notes FHB
Indexed L. O. Johnson Date

STATION #	COLOR	TIME	B. S.	H. I. MEAS. DEPTH	F. S. BOTTOM	ELEV. TIDE	ADJUSTED DEPTH	Distance	REMARKS
				313					
1	BW	1232		289	29.7	4.4	25.3	1556	STANGELAND LEAD
				297					
2	R			271	28.0	4.3	23.7	1540	KVAMMEN RECORD
				285					
3	Y			260	26.8	4.1	22.7	1381	SCHONFELDT OARS
				271					
4	BW	1246		242	25.2	4.0	21.2	1310	⇧ long interval here
				262					
5	R			230	24.1	4.0	20.1	1183	because of trial change
				249					
6	Y			219	22.9	3.9	19.0	1130	or sounding line
				235					
7	BW	1252		207	21.6	3.9	17.7	1009	
				220				962	
8	R			190	20.0	3.9	16.1	BOAT	423+195
				203					
9	Y			179	18.7	3.8	14.9	880	
				197					
10	BW	1258		169	17.8	3.8	14.0	844	
				173					
11	R			143	15.3	3.8	11.5	800	
				156					
12	Y			130	13.9	3.7	10.2	706	
				148					
13	BW	1307		110	12.3	3.7	8.6	680	
				138					
14	R			102	11.4	3.6	7.8	649	
				130					
15	Y			90	10.3	3.5	6.8	591	
				110					
16	BW	1314		78	8.9	3.4	5.5	570	
				108					
17	R			79	8.3	3.4	4.9	561	

FB-16

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-In. ∡		
					Inst. at 426+19		
					Sight on S-28		
423+19	2 03	14 37 ✓		12 34 ✓		✓	1x2
9° R.			0 0	14 4 ✓		✓	toe cliff
44⁵ L.			8 5	5 9 ✓		✓	Slope
T.P.	4 21	6 74 ✓	11 84	02 53 ✓			rock
			7 5	-0 8 ✓	35°43'	193 ✓	under water
			9 5	-2 8 ✓	50°14'	299 ✓	" "
			10 1	-3 4 ✓	56°56'	361 ✓	" "
			11 9	-~~5 4~~ 5 2	64°14'	450 ✓	" "

Inshore
423+19 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 Pg. 17
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd Lewis Checked ____ Survey by English Notes English Date 2-16-53
No. ____ Date 4-17-53 Date ____ Map No. ____ Indexed Job Date ____

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 415+69		
					Sight on S-28		
418+19	2 52	13 44		10 92		✓	1 X 2
21⁵ R.			0 0	13 4		✓	Toe Cliff
47⁵ L.			7 8	5 6		✓	Slope
92° L.			11 6	1 8		✓	"
T.P.	3 27	6 02	10 69	2 75			rock
			7 6	-1 6	36°49'	187	under water
			7 9	-1.9 ~~-1 6~~	42°34'	230	" "
			8 1	-2 1	49°07'	289	" "
			9 3	-3 3	52°40'	328	" "
			10 0	-4 0	57°22'	390	" "
			11 1	-5 1	62°38'	483	" "
			11 6	-5 6	63°32'	502	

Inshore
418+19 S

F. B. 1298 Pg. 18
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by English Notes English Notes Chkd. Checked X-Sec.
Indexed A. O. Johnson Date Date 4-17-53 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 RANGE 418 + 19 S
418+19	S-28	1	B & W	9 43	89° 41'	✓	
		2	R		90 14	✓	
		3	Y		90 14	✓	
		4	B & W	9 49	90 00	✓	
		5	R		90 00	✓	
		6	Y		91 12	✓	
		7	B & W	10 00	90 00	✓	
		8	R		90 00	✓	
		9	Y		89 12	✓	
		10	B & W	10 06	90 00	✓	
		11	R		89 34	✓	
		12	Y		90 00	✓	
		13	B & W	10 13	90 00	✓	
		14	R		91 02	✓	
		15	Y		90 00	✓	
		16	B & W	10 19	91 00	✓	
		17	R		90 15	✓	
		18	Y		90 00	✓	
		19	B & W	10 23	89 17	✓	
		20	R		89 47	✓	

RANGE 418+19S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1298 Pg. 19
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-16-53
No. ____ Date ____ Date ____ Map No. ____ Kin. Johnson Date ____

76L29B 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
		21	Y		90 00	✓	
							RANGE 418+19S

RANGE 418+19S

F. B. 129B Pg. 20
Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes Notes Chkd Checked X-Sec.
Indexed A. O. Johnson 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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
413+19	S-28	1	B&W	9 43	70°49'	✓	Cut in 418+19
		2	R		70°27'	✓	
		3	Y		68°54'	✓	
		4	B&W	9 49	67°08'	✓	
		5	R		65°38'	✓	
		6	Y		65°50'	✓	
		7	B&W	10 00	64°07'	✓	
		8	R		61°27'	✓	
		9	Y		60°35'	✓	
		10	B&W	10 05	59°57'	✓	
		11	R		58°15'	✓	
		12	Y		55°56'	✓	
		13	B&W	10 13	54°04'	✓	
		14	R		51°48'	✓	
		15	Y		51°55'	✓	
		16	B&W	10 19	49°22'	✓	
		17	R		47°41'	✓	
		18	Y		44°06'	✓	
		19	B&W	10 23	42°50'	✓	
		20	R		39°16'	✓	

CUT IN 418+19S

Profile Notes Red. ____ Plotted ____ Job No. 84½ Division No. ____ F. B. 1298 Pg. 21
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-16-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1298 PG. 22 Job No. 8412 Division No. V Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed [redacted] Date Date Date No.

CUT IN 418+19S

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
413+19 5-28	21	Y		34°38'		Cut in 418+19

76L298 307 4-50

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76L298 307 5-49

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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.

BOAT

Do not extend notes this side of this line.

418+19S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED DEPTH		REMARKS
1	BW	9 43	321 300	30.7	5.5	252	1470	KVAMMEN-LEAD
2	R		301 290	29.4		239	1398	SCHON FELDT-RECORD
3	Y		297 283	28.8		233	1287	STANGELANG-OARS
4	BW	9 49	282 267	27.2	5.5	21.7	1190	
5	R		264 253	25.7		20.2	1107	
6	Y		250 240	24.3		18.8	1110	
7	BW	10 00	238 225	22.9	5.6	17.3	1032	
8	R		234 220	22.5		16.9	921	
9	Y		217 200	20.6		15.0	915	
10	BW	10 06	208 190	19.6	5.6	14.0	863	
11	R		198 178	18.5		12.9	821	
12	Y		171 161	16.4		10.8	740	
13	BW	10 13	156 145	14.9	5.6	9.3	690	
14	R		157 137	14.4		8.8	624	
15	Y		148 128	13.5		7.9	640	
16	BW	10 19	131 115	12.0	5.6	6.4	571	
17	R		130 105	11.3		5.7	548	
18	Y		110 92	9.8		4.2	483	
19	BW	10 28	105 78	8.7	5.6	3.1	470	
20	R		102 70	8.1		2.5	410	
21	Y		89 63	7.2		1.6	346	

Profile No. ____ Notes Red. LRW Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 PG. 23
Date 4-15-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. KRK Checked ____ Survey by FHB Notes US Date 2-16-53
Date 4-23-53 Date ____ Map No. ____ Indexed ____ Date ____

418+19S Boat

76L298 307 5-49

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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BOAT

Do not extend notes this side of this line. 413+19S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED DEPTH		REMARKS
1	BW	10 39	303 290	29.4	4.3	25.1	1433 ✓	KVAMMEN - LEAD
2	R		290 270	27.7	4.3	23.4	1351 ✓	STANGELAND - RECORD
3	Y		272 252	25.9	4.4	21.5	1270 ✓	SCHONFELDT - OARS
4	BW	10 48	248 230	23.6	4.5	19.1	1108 ✓	Much sea weed
5	R		232 217	22.2		17.7	1007 ✓	run into impeded
6	Y		220 198	20.5		16.0	924 ✓	sounding work to
7	BW	10 58	182 175	17.7		13.2	778 ✓	some extent
8	R		180 164	16.9	4.5	12.4	720 ✓	
9	Y		172 148	15.6		11.1	698 ✓	
10	BW	11 00	160 132	14.1 ~~14.8~~	4.5	9.6 ~~10.3~~	648 ✓	
11	R		135 114	12.1	4.5	7.6	591 ✓	
12	Y		108 90	9.6	4.6	5.0	547 ✓	
13	BW	11 15	101 78	8.6	4.6	4.0	494 ✓	

2-17-53

413+19S
Boat

F.B. 1298 PG. 24
Job No. 8412 Division No. V Notes Red. LCW Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-15-53 Date X-Sec.
Survey by FHB Notes AS Notes Chkd. KRK Checked No.
Indexed [illegible] Date Date 4-23-53 Date

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work LCW	Surveyed by
Checked	Notes Date
Date	Indexed K. C. Johnson

F. B. 1298 PG. 25

TIDE READING
FEB. 17, 1953
Santa Monica Pier

TIME	GAGE
0800	2.2
0830	2.8
0900	3.2
0930	3.6
1000	4.0
1030	4.3
1100	4.4
1130	4.6
1200	4.6
1230	4.3
1300	3.9
1330	3.6
1400	3.1

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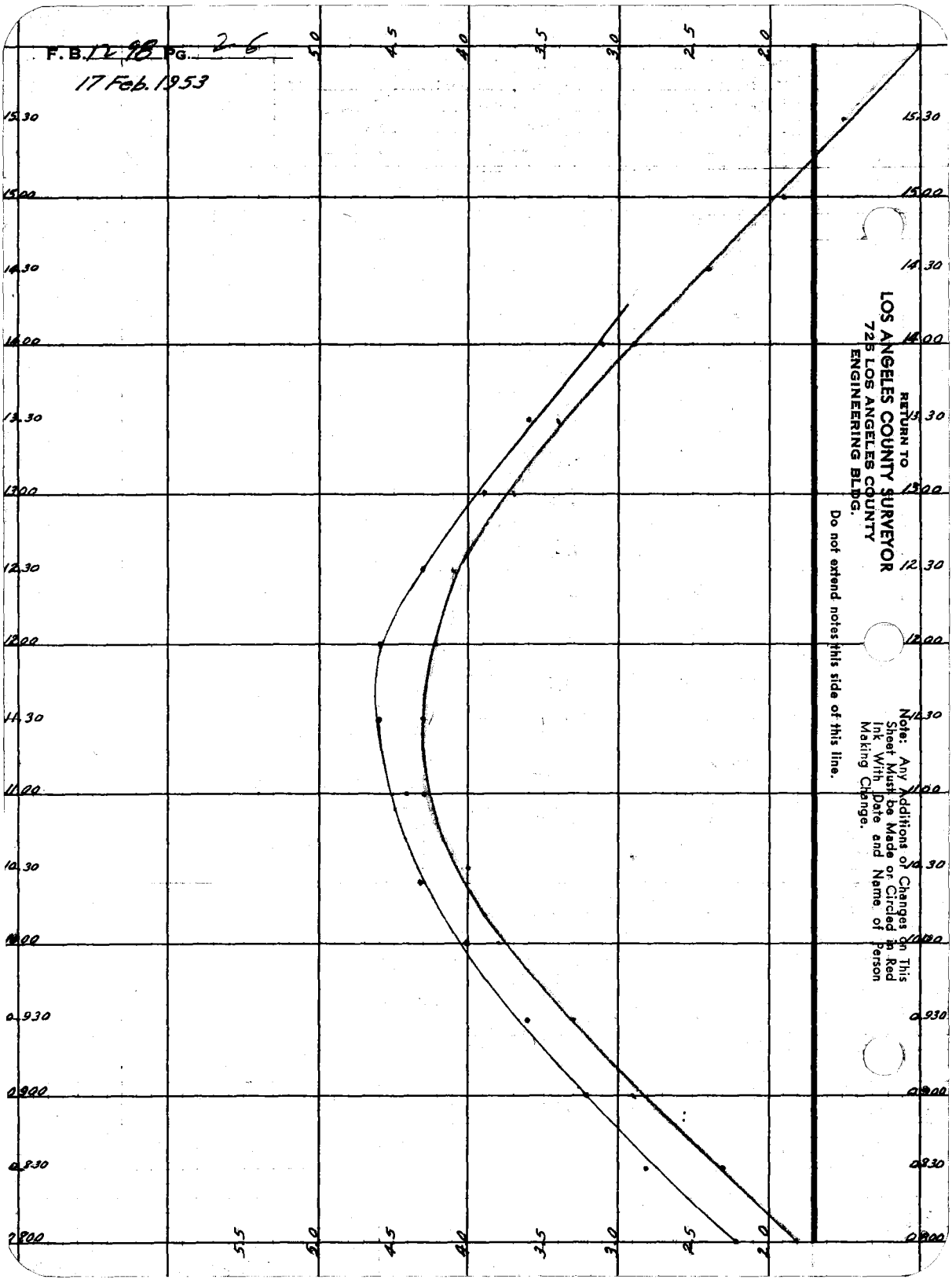
ENGINEERING BLDG.

76F3095 247 2-51

F.B. 1298 PG. 2-6

17 Feb. 1953



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Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1298	Pg. 27
No.	Date	Date	Survey of Beach Erosi n Studies			
X-Sec.	Notes Chkd. [illegible]	Checked	Survey by English	Notes English	Date 2-17-53	
No.	Date 4-17-53	Date	Map No.	Indexed D. Johnson	Date	

Inshore
413+19 S

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at 410+69	
					Sight on 413+19	
413+19	4 94	16 05		11 11		1x2
21° R.			1 6	14 4		Toe Cliff
5° L.			5 1	10 9		Slope
30° L.			9 0	7 0		"
T.P.	0 04	9 40	6 69	9 36		1x2
			8 6	0 8	20°07' 92	under water
			9 7	-0 3	31°26' 153	" "
			10 9	-1 5	39°41' 207	" "
			12 0	-2 6	46°19' 262	" "

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76L298 307 4-50

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at 410+69	
					Sight on 408+19	
408+19	5 95	17 37		11 42	✓ ✓	1X2
51° R.			0 1	17 3	✓ ✓	brk.
3° L.			5 2	12 2	✓ ✓	"
T.P.	0 36	10 13	7 60	9 77	✓	1X2
			9 9	0 2	✓ 21°03' 97 ✓	under Water
			11 4	-1 3	✓ 35°36' 180 ✓	" "
			12 9	-2 8	✓ 44°08" 243 ✓	" "
						" "

Inshore
408+19 S

F. B. 12 98 Pg. 28 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked
Indexed R. O. Johnson Date Date 4-17-53 Date No.

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks RANGE 413+19S
413+19	S-28	1	B&W	10 39	90 00 ✓	
		2	R		90 00 ✓	
		3	Y		89 35 ✓	
		4	B&W	10 48	91 10 ✓	
		5	R		89 30 ✓	
		6	Y		89 32 ✓	
		7	B&W	10 57	90 40 ✓	
		8	R		90 25 ✓	
		9	Y		91 12 ✓	
		10	B&W	11 01	90 00 ✓	
		11	R		90 00 ✓	
		12	Y		90 15 ✓	
		13	B&W	11 15	90 35 ✓	

RANGE 413+19S

Profile No. X-Sec. No. Notes Red Date Notes Chkd Date Plotted Date Checked Date Job No. 8412 Division No. Survey of BEACH EROSION STUDIES Survey by FHB Notes Date 2-12-53 Map No. Indexed Johnson Date

F.B. 1298 Pg. 29

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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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
408+19	S-28	1	B&W	11 35	90°00	✓	
		2	R		90°00	✓	
		3	Y		90°00	✓	
		4	B&W	11 37	89°51	✓	
		5	R		89°20	✓	
		6	Y		90°00	✓	
		7	B&W	11 41	89°20	✓	
		8	R		90°00	✓	
		9	Y		90°00	✓	
		10	B&W	11 45	90°00	✓	
		11	R		90°00	✓	
		12	Y		89°05	✓	
		13	B&W	11 50	91°12	✓	
		14	R		90°21	✓	
		15	Y		91°17	✓	
		16	B&W	11 55	90°00	✓	
		17	R		92°05	✓	

RANGE 408+19S

F.B. 1248 PG. 30
Job No. 8412 Division No. Notes Red Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd Checked
Indexed C. Johnson Date Date Date No.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
408+19	S-28	1	B&W	10 39	70°44'	✓	Cut in 413+19
		2	R		69°39'	✓	
		3	Y		68°03'	✓	
		4	B&W	10 48	66°38'	✓	
		5	R		63°10'	✓	
		6	Y		61°08'	✓	
		7	B&W	10 56	57°44'	✓	
		8	R		55°31'	✓	
		9	Y		54°24'	✓	
		10	B&W	11 00	52°22'	✓	
		11	R		49°25'	✓	
		12	Y		47°35'	✓	
		13	B&W	11 15	45°00'	✓	

Cut In 413+19 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1298 Pg. 31
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-17-53
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. Hor. Ang.		Remarks	
403+19	5-28	1	B&W	11 35	69°24'	✓	Cut in	408+19
		2	R		68°05'	✓		
		3	Y		66°53'	✓		
		4	B&W	11 37	65°20'	✓		
		5	R		62°50'	✓		
		6	Y		61°28'	✓		
		7	B&W	11 41	59°20'	✓		
		8	R		56°25'	✓		
		9	Y		54°20'	✓		
		10	B&W	11 45	51°22'	✓		
		11	R		49°06'	✓		
		12	Y		47°49'	✓		
		13	B&W	11 50	46°56'	✓		
		14	R		45°55'	✓		
		15	Y		44°30'	✓		
		16	B&W	11 54	41°57'	✓		
		17	R		35°33'	✓		

Cut In 408+19 S

3-17-53

F. B. 1298 Pg. 32
Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Chkd. Checked
Indexed A. O. Johnson Date Date No.

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BOAT

Do not extend notes this side of this line. 408+19 S

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	TIME	MEAS. DEPTH	BOTTOM	TIDE	ADJUSTED DEPTH	Distance	REMARKS
1	BW	11 35	301 288	29.2	4.6	24.6	1333	STANGELAND - LEAD
2	R		290 268	27.5		22.9	1240	KVAMMEN - RECORD
3	Y		283 258	26.6		22.0	1177	SCHONFELDT - OARS
4	BW	11 38	260 247	25.1	4.6	20.5	1095	
5	R		248 231	23.7		19.1	998	
6	Y		238 219	22.5		17.9	921	
7	BW	11 42	230 200	21.0	4.6	16.4	857	
8	R		205 187	19.3		14.7	754	
9	Y		188 170	17.6		13.0	698	
10	BW	11 45	172 150	15.7	4.6	11.1	627	
11	R		154 138	14.3		9.7	578	
12	Y		144 125	13.1		8.5	562	
13	BW	11 51	137 116	12.3	4.6	7.7	523	
14	R		122 101	10.8		6.2	514	
15	Y		112 90	9.7		5.1	478	
16	BW	11 55	101 70	8.0	4.6	3.4	450	
17	R		95 65	7.5		2.9	349	

Boat 408+19 S

Profile No. ____ Notes Red. RCW Plotted ____ Job No. 8412 Division No. V F.B. 1298 Pg. 33
Date 4-15-53 Date ____ Survey of BEACH & ROSCOE STUDIES
X-Sec. No. ____ Notes Chkd. KRK Checked ____ Survey by FHB Notes KRK Date 2-17-53
Date 4-23-53 Date ____ Map No. ____ Indexed ____ Date ____

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BOAT

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F.B. 128 PG. 34 | Job No. 5417 | Division No. V | Notes Red. RDW | Plotted | No.
Profile | X-Sec. | No.
Survey of BEACH ERROSION STUDIES | Date 4-15-53 | Date
Survey by T. H. | Notes KRK | Notes Chkd. KRK | Checked
Indexed L. A. Johnson | Date | Date 4-23-53 | Date

STATION #	COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
			306					
1	BW	1213	290	29.5	4.5	25.0	1253v	STANGELAND-LEAD
			292					
2	R	•	272	27.9		23.4	1190v	KWAMMEN-RECORD
			273					
3	Y		259	26.4		21.9	1058v	SCHONFELDT-OARS
			265					
4	BW	1216	240	24.8	4.5	20.3	982v	Boat caught by
			240					
5	R		222	22.8	4.5	18.3	890v	sudden wave in
			222					
6	Y		205	21.1	4.4	16.7	791v	surf + swamped
			213					
7	BW	1220	192	19.9	4.4	15.5	712v	
			193					
8	R		171	17.8		13.4	644v	
			175					
9	Y		150	15.8		11.4	603v	
			156					
10	BW	1225	138	14.4	4.4	10.0	565v	
			148					
11	R		128	13.4	4.4	9.1	528v	
			133					
12	Y		109	11.7	4.3	7.4	495v	
			120					
13	BW	1230	91	10.1	4.3	5.8	432v	

Boat
403+19 S

3-17-53

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-In ∡		
					Inst. at 400+69		
					Sight on 403+19		
403+19 S.	5 33	16 01		10 68			1X2
40° R.			1 8	14 2			Brk.
4° L.			5 0	11 0			"
35° L.			8 2	7 8			"
T.P.	0 00	7 92	8 09	7 92			1X2
			2 1	5 8	11° 56'	53	under water
			5 9	2 0	19° 47'	90	" "
			8 0	-0 1	29° 34'	142	" "
			8 8	-0 9	39° 39'	207	" "
			9 8	-1 9	45° 27'	254	" "
			10 5	-2 6	50° 09'	300	" "
			12 5	-4 6	57° 04'	386	" "

Inshore
403+19 S.

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 PG. 35
X-Sec. ____ Date ____ Date ____ Survey of Beach Erosion Studies
No. ____ Date 4-17-59 Notes Chkd. [illegible] Checked ____ Date ____ Survey by English Notes English Date 2-17
Map No. ____ Date ____ Indexed ____ Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 395+69		-Note-
					Sight on 398+19		-Storm, Feb. 18 & 19
398+19 S	7 11	17 66 ✓		10 55 ✓		✓	1X2 this pt. filled over with 2° of sand-
46' R.			0 9	16 8 ✓		✓	Brk.
6' L.			6 7	11 0 ✓		✓	"
64' L			11 7	6 0 ✓		✓	
T.P.	0 00	6 17 ✓	11 49	6 17 ✓			1X2
			8 2	-2 0 ✓	25° 37'	120 ✓	under water
			8 8	-2 6 ✓	39° 06'	203 ✓	" "
			12 0	-5 8 ✓	48° 08'	279 ✓	" "
			11 2	-5 0 ✓	54° 07'	346 ✓	" "
			11 0	-4 8 ✓	62° 29'	480 ✓	" "

Inshore 398+19 S

F.B. 1298 PG. 36 Job No. 8412 Division No. Notes Red. Plotted No. Profile

Survey of Beach Erosion Studies Date Date X-Sec.

Survey by [redacted] Notes English Notes Chkd [illegible] Checked No.

Indexed Date Date 4-17-59 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. Sight At	On	# Color	Time	Hor. Ang.		Remarks
4037+95	S-28 1	B&W	12 13	89°35	✓	
	2	R		90°00	✓	
	3	Y		90 00	✓	
	4	B&W	12 16	90°00	✓	
	5	R		90 00	✓	
	6	Y		90 00	✓	
	7	B&W	12 20	90 00	✓	
	8	R		90 00	✓	
	9	Y		90°45	✓	
	10	B&W	12 27	90 00	✓	
	11	R		90 10	✓	
	12	Y		90 00	✓	
	13	B&W	12 30	90 38	✓	

RANGE 4037+95

Profile Notes Red ____ Plotted ____ Job No. 541 Division No. EROSION STUDIES F. B. 1298 Pg. 37
No. ____ Date ____ Date ____ Survey of BEACH Notes ____ Date 1-17-53
X-Sec. Notes Chkd. ____ Checked ____ Survey by EHB
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1298 PG. 38

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

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed [redacted] Date Date Date No.

RANGE 398+195

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On 398+195 S-28		# Color	Time Hor. Ang.		
	1	B&W	704	90.00	
	2	R		"	
	3	Y		"	
	4	B&W	711	"	
	5	R		"	
	6	Y		"	
	7	B&W	714	"	
	8	R		"	
	9	Y		"	
	10	B&W	719	90.00	
	11	R		"	
	12	Y		"	
	13	B&W	724	"	
	14	R		"	
	15	Y		"	
	16	B&W	726	"	

2-20-53

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
398+19	S-28	1	B&W	12 13	68°13'	✓	Cut in 403+19
		2	R		67°09'	✓	
		3	Y		64°43'	✓	
		4	B&W	12 16	63°02'	✓	
		5	R		60°41'	✓	
		6	Y		57°41'	✓	
		7	B&W	12 20	55°02'	✓	
		8	R		52°08'	✓	
		9	Y		50°45'	✓	
		10	B&W	12 27	48°32'	✓	
		11	R		46°39'	✓	
		12	Y		44°45'	✓	
		13	B&W	12 30	41°06'	✓	

Profile Notes Red ____ Plotted ____ Job No. 841 Division No. ✓ F. B. 1298 Pg. 39
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd ____ Checked ____ Survey by FHD Notes ____ Date 2-12-59
No. ____ Date ____ Date ____ Map No. ____ Index Job No. ____ Date ____

CUT IN 403+19

76L298 307 4-50

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STATION Instr. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
393+19	S-28	1	B&W	7 04	67°47'	✓	Cut in 398+19
		2	R		67°34'	✓	
		3	Y		65°34'	✓	
		4	B&W	7 11	64°41'	✓	
		5	R		63°14'	✓	
		6	Y		62°15'	✓	
		7	B&W	7 14	60°55'	✓	
		8	R		59°34'	✓	
		9	Y		58°05'	✓	
		10	B&W	7 19	56°28'	✓	
		11	R		54°15'	✓	
		12	Y		51°40'	✓	
		13	B&W	7 24	50°46'	✓	
		14	R		49°17'	✓	
		15	Y		48°13'	✓	
		16	B&W	7 26	46°03'	✓	

Cut In 398+19 S

2-20-53

F. B. 1298 Pg. 40 Job No. 84126 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked
Indexed [illegible] Date Date No.

76L298 307 5-49

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Boat

Do not extend notes this side of this line.

398+19S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED DEPTH	Distance	REMARKS
1	BW	704	281 270	27.4	1.7	25.7	1224v	ANDERSEN - LEAD
2	R		275 262	26.6		24.9	1211v	KUAMMEN - RECORD
3	Y		275 262	26.6		24.9	1100v	STANGELAND - OARS
4	BW	711	253 245	24.8	1.7	23.1	1056v	Note same depth
5	R		247 235	23.9		22.2	991v	as in 2. Check if
6	Y		237 225	22.9		21.2	950v	same or near same
7	BW	714	232 213	21.9	1.7	20.2	899v	position.
8	R		214 200	20.5	1.7	18.8	851v	
9	Y		195 189	19.1	1.6	17.5	803v	
10	BW	719	195 174	18.1	1.6	16.5	754v	
11	R		183 163	17.0	1.6	15.4	694v	
12	Y		158 145	14.9	1.5	13.4	632v	
13	BW	724	158 132	14.1	1.5	12.6	612v	
14	R		137 122	12.7		11.2	581v	
15	Y		124 102	10.9		9.4	559v	
16	BW	726	110 88	9.5	1.5	8.0	519v	

Boat 398+19S

Profile No. ____ Notes Red. RCW Plotted ____ Job No. 8412 Division No. V F.B. 1298 Pg. 4
Date 4-15-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. KRK Checked ____ Survey by FHB Notes KRK Date 2-20-53
Date 4-23-53 Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 5-49

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BOAT

1st 393+19S RANGE VOID!!

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2ND 393+19S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED DEPTH	Distance	REMARKS
1	BW	8 14	272 260	26.4	1.0	25.4	1182V	ANDERSEN - LEAD
2	R		267 252	25.7		24.7	1138V	KUAMMEN - RECORD
3	Y		256 243	24.7		23.7	1083V	STANGELAND - OARS
4	BW	8 18	246 230	23.5	1.0	22.5	1004V	the first time this
5	R		230 213	21.9		20.9	920V	range was run
6	Y		213 185	19.4		18.4	811V	the flags singularly
7	BW	8 23	198 178	18.5	1.0	17.5	752V	were furled &
8	R		180 167	17.1		16.1	703V	many soundings
9	Y		170 140	15.0	0.9	14.1	665V	were missed on
10	BW	8 29	158 130	13.9	0.9	13.0	630V	shore.
11	R		153 129	13.7		12.8	595V	
12	Y		136 109	11.8		10.9	570V	

2-20-53

Boat 393+19S

F.B. 1298 PG. 42
Job No. 8412 Division No. V Notes Red. LCW Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-15-53 Date X-Sec.
Survey by FHB Notes FRK Notes Chkd. KRK Checked No.
Indexed A. C. Johnson Date Date 4-23-53 Date

F.B. 12 98 PG. 43

Notes Ck'd by
Map No.
Office Work RCW.
Checked
Date

Survey of
W. O. Tape No. St'd °F
Surveyed by
Notes Date
Indexed C. Johnson

TIDE GAGE READING
FEB 20, 1953

TIME	GAGE
0600	2.5
0630	2.1
0700	1.9
0730	1.4
0800	1.2
0830	0.9
0900	0.8
0930	0.7
1000	0.7
1030	0.8
1100	1.0
1130	1.1
1200	1.3
1230	1.6
1300	1.9
1330	2.1
1400	2.3

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76F309S 247 2-51

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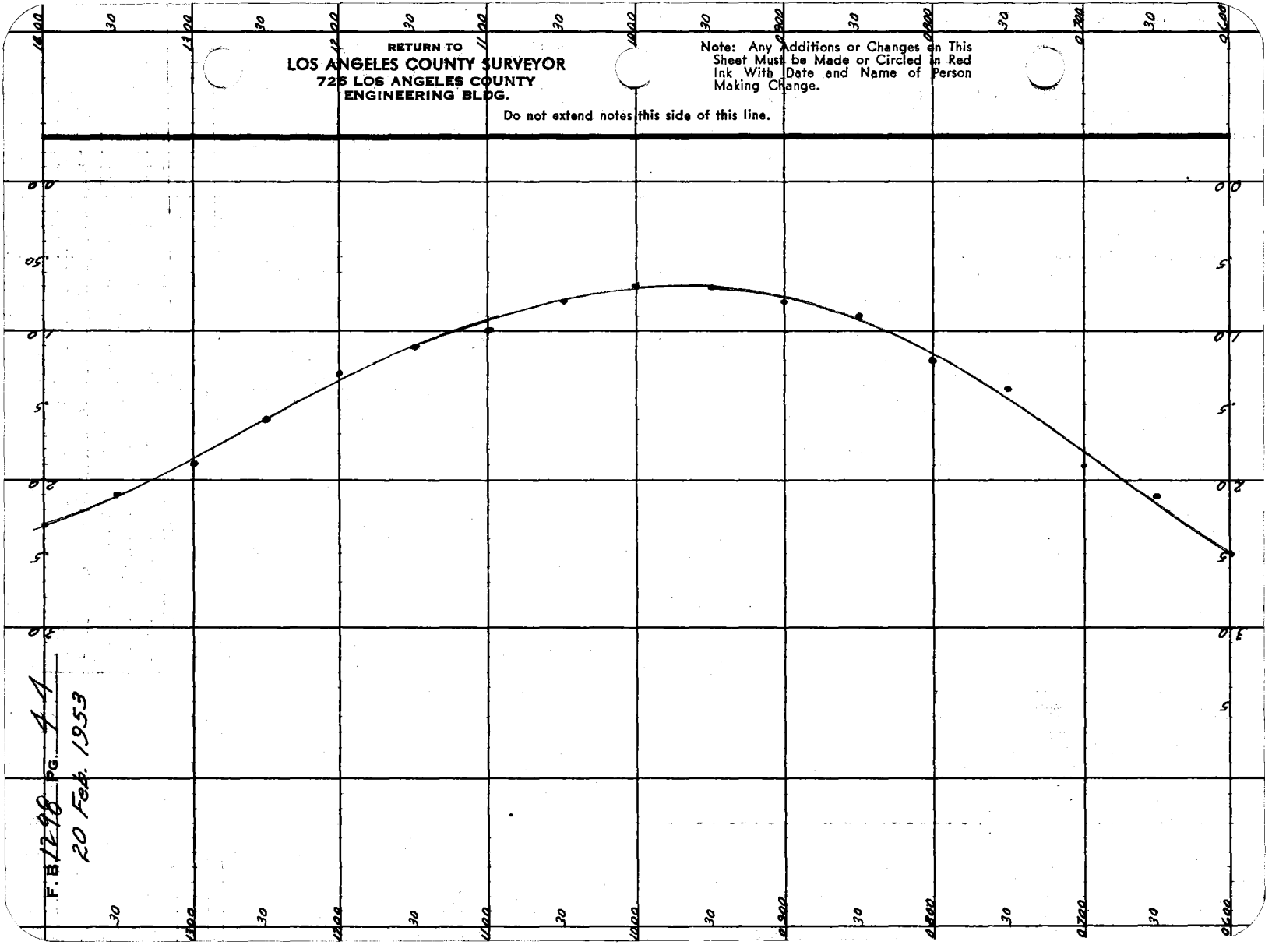

F.B. 1278 PG. 44
20 Feb. 1953

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1298	Pg. 45
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd. Law	Checked	Survey by English	Notes English	Date 2-20-53	
No.	Date 4-17-53	Date	Map No.	Indexed C. Johnson	Date	

Inshore
393+19 S

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at 395+69	
					Sight on 393+19	
393+19	A 99	16 80		11 81		1x2
27' R.			0 0	16 8		Brk.
60' L.			10 0	6 8		"
T.P.	0 19	5 77	11 22	5 58		1x2
			6 6	-0 8	29°16'	140 under water
			7 9	-2 1	38°24'	198 "
			12 1	-6 3	60°30'	441 "

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76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at 385+50	
					Sight on 388+00	
388+00	4 05	18 64		14 59		1X2
27 R.			0 0	18 6		Brk.
22 L.			5 3	13 3		"
50 L.			11 0	7 6		"
T.P.	1 64	9 15	11 13	07 51		1X2
T.P.	0 70	4 89	4 96	4 19		1X2
			5 5	-0 6	21° 11' 97	under water
			6 5	-1 6	31° 53' 156	" "
			9 6	-4 7	41° 28' 221	" "
			9 9	-5 0	59° 41' 428	" "
			14 1	-9 2	61° 11' 454	" "

Inshore 388+00 S

F. B. 10/298 Pg. 46
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked
Indexed [illegible] Date Date 4-17-53 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 RANGE 388+00-S	
388+00 / 8-27	1	B+W	9:03	9000'		
	2	R		9000		
	3	Y		9000		
	4	B+W	9:08	9000		
	5	R		9000		
	6	Y		9000		
	7	B+W	9:12	9000		
	8	R		9000		
	9	Y		9000		
	10	B+W	9:15	9000		
	11	R		9000		

Range 388+00S

Profile Notes Red ____ Plotted ____ Job No. 841 Division No. V F. B. 1288 Pg. 47
No. ____ Date ____ Date ____ Survey of BEACH EROSION SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by FH B Notes ____ Date 2-10-53
No. ____ Date ____ Date ____ Map No. ____ 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. Sight At On	#	Color	Time	Hor. Ang.		Remarks
393+19 S-28	1	B+W	8 14	9[illegible]0	✓	RANGE 393+19-S
	2	R		[illegible]	✓	
	3	Y		[illegible]	✓	
	4	B+W	8 18	[illegible]	✓	
	5	R		91[illegible]0	✓	
	6	Y		9000	✓	
	7	B+W	8 28	[illegible]	✓	
	8	R		8976	✓	
	9	Y		90[illegible]0	✓	
	10	B+W	8 29	90[illegible]0	✓	
	11	R		9[illegible]0	✓	
	12	Y		90[illegible]0	✓	

RANGE 393+19S

2-20-53

F. B. 1298 Pg. 48 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by F.H.B. Notes Notes Chkd. Checked X-Sec.
Indexed [illegible] 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.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks
398+19	S-27	1	B&W	8 14	68°07'	✓	Cut in 393+19
		2	R		66°22'	✓	
		3	Y		65°16'	✓	
		4	B&W	8 18	63°35'	✓	
		5	R		61°29'	✓	
		6	Y		58°23'	✓	
		7	B&W	8 23	56°22'	✓	
		8	R		55°08'	✓	
		9	Y		53°04'	✓	
		10	B&W	8 29	51°31'	✓	
		11	R		49°54'	✓	
		12	Y		48°43'	✓	

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1298 Pg. 49
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-20-53
No. ____ Date ____ Date ____ Map No. ____ Date ____

CUT IN 393+19S

76L298 307 4-50

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STATION ~~Inst. Sight~~ At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
383+00	S-27	1	B&W	9 03	68° 07'	✓✓	Cut in 388+00
		2	R		66° 33'	✓✓	
		3	Y		65° 02'	✓✓	
		4	B&W	9 08	63° 41'	✓✓	
		5	R		61° 41'	✓✓	
		6	Y		59° 34'	✓✓	
		7	B&W	9 12	57° 41'	✓✓	
		8	R		54° 42'	✓✓	
		9	Y		52° 39'	✓✓	
		10	B&W	9 15	50° 43'	✓✓	
		11	R		48° 03'	✓	

388+00 S

Cut In ~~388+00 S~~

2-20-53

F. B. 1298 Pg. 50 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked
Indexed R. A. Johnson Date Date Date No.

76L298 307 5-49

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BOAT

Do not extend notes this side of this line. 383+19S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
1	BW	955	290 265	27.3	0.7	26.6	1078v	ANDERSEN - LEAD
2	R		280 240	25.3		24.6	1019v	KUHMMEN - RECORD
3	Y		265 240	24.8		24.1	919v	STANGELAND - OARS
4	BW	959	243 210	22.1	0.7	21.4	846v	
5	R		232 202	21.2		20.5	757v	
6	Y		205 188	19.4		18.7	681v	
7	BW	1004	200 170	18.0	0.7	17.3	664v	
8	R		165 148	15.4		14.7	608v	
9	Y		140 123	12.9		12.2	543v	
10	BW	1010	133 113	12.0	0.7	11.3	534v	

Range
Boat 383+19S

Profile No. ____ Notes Red. SCW Plotted ____ Date 4-16-53 Date ____ Job No. 8412 Division No. ____ Survey of BEACH EROSION SURVEY
X-Sec. No. ____ Notes Chkd. KRK Checked ____ Date 1-23-53 Date ____ Survey by FHE Notes KRK Date 2-20-53 Map No. ____ Indexed ____ Date ____

F.B. 1298 PG. 51

76L298 307 5-49

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BOAT

Do not extend notes this side of this line. 388+19S RANGE

STATION #	COLOR	B. S. TIME	H. I. MEAS. DEPTH	F. S. BOTTOM	ELEV. TIDE	ADJUSTED	DEPTH Distance	REMARKS
1	BW	903	292 267	27.5	0.8	26.7	1245 ✓	ANDERSEN - LEAD
2	R		280 255	26.3		25.5	1153 ✓	KVAMMEN - RECORD
3	Y		267 238	24.8		24.0	1073 ✓	STANGELAND - OARS
4	BW	908	254 235	24.1	0.8	23.3	1011 ✓	
5	R		240 220	22.7		21.9	928 ✓	
6	Y		232 205	21.4		20.6	851 ✓	
7	BW	912	205 180	18.8	0.7	18.1	790 ✓	
8	R		185 162	17.0		16.3	711 ✓	
9	Y		183 145	15.8		15.1	655 ✓	
10	BW	915	163 128	14.0	0.7	13.3	611 ✓	
11	R		143 104	11.7		11.0	556 ✓	

Boat 388+00S

2-20-53

F.B. 1298 PG. 52
Job No. 8412 Division No. Notes Red. PCW Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-16-53 Date X-Sec.
Survey by FHB Notes KRK Notes Chkd KRK Checked No.
Indexed C. Johnson Date Date 4-23-53 Date

76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.		
Time		GAGE			Feb 19 1953	
06:00		1.4				
0630		1.0				
0700		0.8				
0730		0.6				
0800		0.5				
0830		0.6				
0900		0.7				
0930		0.8				
1000		1.0				
1030		1.3				
1100		1.7				
1130		1.9				
1200		2.2				
1230		2.4				
1300		2.5				
1330		2.7				
1400		2.7				
14.30		2.6				
1500		2.6				

no notes taken on Feb 19th

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

X-Sec. No. ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey by ____ Map No. ____ Notes ____ Indexed ____ Date ____ Date ____

F.B. 1298 Pg. 53

F.B. 1298 PG. 54

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

Survey of _____ Date _____ Date _____ No. _____

Survey by A. C. Johnson Notes _____ Notes Chkd. _____ Checked _____ X-Sec.

Indexed _____ Date _____ Date _____ Date _____ No. _____

76L286 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.
TIME		GAGE		
0600		2.5		
0630		2.1		
0700		1.9		
0730		1.4		
0800		1.2		
0830		0.9		
0900		0.8		
1000		0.7		
1030		0.8		
1100		1.0		
1130		1.1		
1200		1.3		
1230		1.6		
1300		1.9		
1330		2.1		
1400		2.3		
14[illegible]				

see page 43 for graph

See page No. 43 and No. 44 for graph

Jul 20 1953

Profile	Notes Red.	Plotted	Job No. 8412	Division No. 1	F. B. 12 98	Pg. 55
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd. [illegible]	Checked	Survey by English	Notes English	Date 2-20-53	
No.	Date 4-17-53	Date	Map No.	Indexed A. C. Johnson	Date	

Inshore
383+00 S

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡ Inst. at 385+50 sight on 383+00		
383+00 S	9 46	19 98		10 52		1x2	
22° R			4 2	15 8		Brk.	
58° R			1 3	18 7		"	
30° L			14 0	6 0		"	
T.P.	1 14	9 98	11 14	08 84		1x2	
T.P.	0 30	5 76	4 52	5 46		"	
			5 5	+0 3	15°42'	70	under Water
			10 0	-4 2	31°50'	155	"
			10 5	-4 7	40°31'	214	
			10 0	-4 2	46°55'	267	
			10 8	-5 0	59°55'	432	
			13 8	-8 0	62°16'	476	

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76L298 307 4-50

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at 375+50	
					Sight on 378+00	
378+00	3 58	11 31		7 73	✓	1x2
10' R.			2 0	9 3	✓ 1	Brk.
69' R.			+6 0	17 3	✓ ✓	"
30' L.			7 6	3 7	✓ ✓	"
T. P.	0 36	5 25	6 42	4 89	✓	1x2
			4 7	+0 5	✓ 11°54' 52 ✓	under water
			8 9	-3 7	✓ 25°50' 121 ✓	" "
			9 5	-4 3	✓ 49°35' 294 ✓	" "
			12 8	-7 6	✓ 55°14' 360 ✓	

Inshore
378+00 S

2-20-53

F. B. 1298 Pg. 56 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by English Notes English Notes Chkd. Checked X-Sec.
Indexed E. C. Johnson Date Date 4-17-53 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.		
Inst. Sight At ON	#	Color	Time	Hor. Ang.		Remarks RANGE 383+00-S
383+00 27S	1	B+W	9:55	90°00 ✓		
	2	R		90°00 ✓		
	3	Y		90°00 ✓		
	4	B+W	9:59	90°00 ✓		
	5	R		90°24 ✓		
	6	Y		90°00 ✓		
	7	B+W	10:04	89°22 ✓		
	8	R		89°36 ✓		
	9	Y		90°00		
	10	B+W	10:10	91°25 ✓		

RANGE 383+00S

Profile Notes Red ____ Plotted ____ Job No. 841 Division No. ✓ F. B. 1298 Pg. 57
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-20-53
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 RANGE 378+00-S
378+00	27-S	1	B+W	10:30	9000 ✓		
		2	R		9000 ✓		
		3	Y		9000 ✓		
		4	B+W	10 34	9000 ✓		
		5	R		900[illegible] ✓		
		6	Y		900[illegible] ✓		
		7	B+W	10:38	90[illegible] ✓		
		8	R		8845 ✓		

RANGE 378+00 S

2-20-53

F. B. 1298 PG. 58 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson 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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
378+00	S-27	1	B&W	9 55	65°07' ✓	Cut in 383+00	
		2	R		63°52' ✓	Cut in Angle 1 ft. W. of Line	
		3	Y		61°27' ✓		
		4	B&W	9 59	59°25' ✓		
		5	R		56°48' ✓		
		6	Y		54°04' ✓		
		7	B&W	10 04	52°33' ✓		
		* 8	R		50°09' ✓		
		9	Y		47°22'		
		10	B&W	10 10	47°46' ✓		

Profile Notes Red. ____ Plotted ____ Job No. 84/2 Division No. ✓ F. B. 1298 Pg. 59
No. ____ Date ____ Date ____ Survey of BEACH EROSION SURVEY
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-20-53
No. ____ Date ____ Date ____ Map No. ____ Date ____

CUT IN 383+00 S

F. B. 1298 Pg. 60 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed [redacted] Date Date Date No.

76L29B 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. Sight At On	#	Color	Time	Hor. Ang.		Remarks
373+00 S-27	1	B&W	10 30	62° 40' ✓		Cut in 378+00
	2	R		60° 23' ✓		
	3	Y		58° 03' ✓		
	4	B&W	10 34	54° 38' ✓		
	5	R		52° 39' ✓		
	6	Y		47° 26' ✓		
	7	B&W	10 38	45° 04' ✓		
	8	R		43° 15' ✓		

Cut In 378+00 S

2-20-53

76L298 307 5-49

997.68

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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BOAT

Do not extend notes this side of this line. 373 +19S ~~RANGE~~

STATION	B. S.	H. I.	F. S.	ELEV.			
					999.9		
# COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
1 BW	1056	263 250	25.4	0.9	24.5	955	ANDERSON - LEAD
2 R		243 230	23.4		22.5	850	KVAMMEN - RECORD
3 Y		220 205	21.0		20.1	765	STANGELAND - OAKS
4 BW	1059	207 190	19.6	0.9	18.7	735	
5 R		195 180	18.5		17.6	648	
6 Y		187 167	17.4		16.5	586	
7 BW	1104	165 150	15.5	0.9	14.6	550	
8 R		163 140	14.8	0.9	13.9	540	
9 Y		145 100	11.5	1.0	10.5	495	
10 BW	1109	113 80	9.1	1.0	8.1	410	

REVERSED

Boat 373+19S

Profile No. ____ Notes Red. RCW Plotted ____ Job No. 8412 Division No. ✓ F.B. 1298 PG. 61
Date 4-16-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. KRK Checked ____ Survey by F. H. BLANCHARD Notes KRK Date 2-20-53
Date 4-23-53 Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 5-49

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BOAT

Do not extend notes this side of this line. 378+19S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
1	BW	1030	272 255	26.1	0.8	25.3	970	ANDERSEN - LEAD
2	R		253 238	24.3		23.5	880	KVAMMEN - RECORD
3	Y		240 220	22.7		21.9	802	STANGELAND - OARS
4	BW	1034	207 193	19.8	0.8	~~19.8~~ 19.0	703	
5	R		197 179	18.5		17.7	653	
6	Y		172 145	15.4		14.6	547	
7	BW	1038	153 120	13.1		12.3	502	
8	R		150 108	12.2	0.8	11.4	482	

Boat 378+19 S

2-20-53

F.B. 1298 Pg. 62 Job No. 8412 Division No. ✓ Notes Red. LCW Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 4-16-53 Date X-Sec.
Survey by F. H. BLANCHARD Notes F. H. BLANCHARD Notes Chkd. KRK Checked No.
Indexed A. O. Johnson Date Date 4-23-53 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.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 375+50		
					Sight on 373+00		
373+00	2 51	10 91		8 40		✓	1X2
40' L.	Reversed?		+25	13 4		✓	Brk.
80' L.			+7 8	18 7		✓	"
25' R.			4 8	6 1		✓	"
T.P.	0 86	5 27	6 50	4 41			1X2
			4 3	+1 0	13°57'	62✓	under water
			8 5	-3 2	29°53'	144✓	" "
			10 5	-5 2	47°07'	269✓	" "
			10 8	-5 6	57°41'	395✓	" "

Inshore
373+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1298 Pg. 63
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Lewis Checked ____ Survey by English Notes English Date 2-20-53
No. ____ Date 4-17-53 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. 1298 Pg. 64 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | No.
Survey by Engl/sh Notes 2-20-53 | Notes Chkd. | Checked | X-Sec.
Indexed | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 370+50		
					Sight on 368+00		
368+00	3 22	19 65		16 43			1 X 2
34' R.			2 0	17 6			Brk.
3' L.			3 0	16 6			"
50' L.			10 5	9 1			"
T.P.	-0 83	6 90	11 92	0 73			1 X 2
			3 8	3 1	21° 53'	100	under water
			10 1	-3 2	31° 52'	155	" "
			9 1	-2 2	44° 16'	244	" "
			9 3	-2 4	48° 58'	287	" "
			9 7	-2 8	51° 55'	319	" "
			11 5	-4 6	56° 52'	383	" "

Inshore 368+00 S

FORM 307 10M 10-46

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.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks RANGE 373+00-S
373+00	27-S	1	B+W	10:56	90°58' ✓	
		2	R		9036 ✓	
		3	Y		9000 ✓	
		4	B+W	10:59	8925 ✓	
		5	R		9000 ✓	
		6	Y		9000 ✓	
		7	B+W	11:04	9000 ✓	
		8	R		9050 ✓	
		9	Y		8934 ✓	
		10	B+W	11:09	9000 ✓	

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 Pg. 65
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-20-53
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

Range 373+00 S

FORM 307 10M 10-46

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.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor, Ang.	Remarks	
368+00	S-27	1	B+W	11:23	9000 ✓		RANGE 368+00-S
		2	R		9000 ✓		
		3	Y		9000 ✓		
		4	B+W	11:27	9000 ✓		
		5	R		9031 ✓		
		6	Y		8926 ✓		
		7	B+W	11:32	8902 ✓		
		8	R		9000 ✓		
		9	Y		9103 ✓		
		10	B+W	11:34	9000 ✓		
		11	R		9131		

RANGE 368+00 S

2-20-53

F.B. 1298 PG. 66 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date Date X-Sec.
Survey by FHB Notes Notes Chkd. Checked No.
Indexed C. Johnson Date Date 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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
368+00	S-27	1	B&W	10 56	63°09' ✓		Cut in 373+00
		2	R		60°01' ✓		
		3	Y		56°50' ✓		
		4	B&W	10 59	55°18' ✓		
		5	R		52°25' ✓		
		6	Y		49°34' ✓		
		7	B&W	11 04	47°48' ✓		
		8	R		47°40' ✓		
		9	Y		44°43' ✓		
		10	B&W	11 09	39°25' ✓		

Profile Notes Red.: Plotted Job No. 0412 Division No.
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by FHB Notes Date 2-20-53
No. Date Date Map No. ~~Indexed~~ Date

F. B. 1298 Pg. 67

Cut in 373+00 S

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
373+00	S-26	1	B&W	11 23	64°47' ✓	Cut in 368+00
		2	R		62°12' ✓	
		3	Y		60°02' ✓	
		4	B&W	11 27	53°08' ✓	
		5	R		54°01' ✓	
		6	Y		5[illegible]°32' ✓	
		7	B&W	11 32	48°50' ✓	
		8	R		47°03' ✓	
		9	Y		45°00' ✓	
		10	B&W	11 34	43°37' ✓	

CUT IN 368+00 S

2-20-53

F. B. 1298 PG. 68 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked
Indexed ~~J. O. Johnson~~ Date Date Date No.

Profile	Notes Red. LCW.	Plotted	Job No. 8412	Division No. ✓	F. B. 1298	Pg. 69
No.	Date 4-16-53	Date	Survey of BEACH EROSION STUDIES			
X-Sec.	Notes Chkd. KRK	Checked	Survey by FHB	Notes KRK	Date 2-20-53	
No.	Date 4-23-53	Date	Map No.	Indexed K. C. Johnson	Date	

BOAT 368+19 S.

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STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	B&W	11 23	28 5	26.5	1.1	25.4	1060	
2	R		25 5	24.5		23.4	950	
3	Y		25 5	22.5		21.4	870	
4	B&W	11 27	24 0	21.0	1.1	19.9	805	
5	R		23 5	19.4		18.3	695	
6	Y		22 0	17.7		16.6	625	
7	B&W	11 32	20 0	16.0	1.1	14.9	560	
8	R		20 3	15.0		13.9	540	
9	Y		19 0	13.6		12.5	510	
10	B&W	11 34	19 0	12.2	1.1	11.1	478	
11	R		17 0	10.6		9.5		

76L298 307 4-50

76L298 307 4-50

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BOAT

Do not extend notes this side of this line. 363+19S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	1238	290 270	27.7	1.6	26.1	1066	
2	R		280 260	26.7	1.6	25.1	1020	
3	Y		271 250	25.7	1.7	24.0	975	
4	BW	1245	260 235	24.3	1.7	22.6	885	
5	R		233 215	22.1	1.7	20.4	813	
6	Y		212 190	19.7	1.8	17.9	694	
7	BW	1250	197 178	18.4	1.8	16.6	645	
8	R		182 165	17.1		15.3	618	
9	Y		162 147	15.2		13.4	548	
10	BW	1252	144 130	13.6	1.8	11.8	508	

Boat 363+19 S

2-20-53

F. B. 12-98 Pg. 70
Job No. 6412 Division No. ✓ Notes Red. Pow Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES Date 4-16-53 Date ____ No. ____
Survey by FHB Notes KRK Notes Chkd. KRK Checked ____ X-Sec. ____
Indexed ____ Date ____ 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.	Cut-in ∡		
					Inst. at. 360+50		
					Sight on 363+00		
363+00	3 35	17 74 ✓		14 39 ✓	✓		1 x 2
30' R.			1 4	16 3 ✓	✓		Brk.
20' L.			5 6	12 1 ✓	✓		"
50' L.			9 2	8 5 ✓	✓		"
T. P.	1 21	6 81 ✓	12 14	5 60 ✓			1 x 2
			4 9	1 9 ✓	23°19'	108 ✓	under water
			9 6	-2 8 ✓	36°11'	183 ✓	" "
			9 6	-2 8 ✓	44°20'	244 ✓	" "
			9 9	-3 1 ✓	52°32'	326 ✓	" "
			12 3	-5 5 ✓	56°04'	372 ✓	" "

Inshore
363+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ✓ F. B. 1298 Pg. 71
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by English Notes English Date 2-20-53
No. ____ Date 4-17-53 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut in ∡		
					Inst. at 355+50		
					Sight on 358+00		
358+00 S.	5 12	17 57		12 45			1 X 2
32' R.			1 1	16 5			Brk.
5' L.			5 0	12 6			"
50' L.			9 3	~~8 5~~ 8.3			"
T.P.	0 64	8 34	9 87	7 70			1 X 2
			4 3	4 0	20°02'	91	under Water
			9 1	-0 8	30°50'	149	" "
			12 5	-4 2	42°31'	229	" "
			11 5	-3 2	51°18'	312	" "
			14 1	-5. 8	56°24'	376	" "

Inshore 358+00 S.

F. B. 1298 Pg. 72 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by English Notes English Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date 4-17-53 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. Sight At OH	#	Color	Time	Hor. Ang.		Remarks RANGE 363+00-S
363+00 S-26	1	B+W	12:38	9000 ✓		
	2	R		9000 ✓		
	3	Y		9120 ✓		
	4	B+W	12:45	9000 ✓		
	5	R		9000 ✓		
	6	Y		9000 ✓		
	7	B+W	12:50	9000 ✓		
	8	R		9100 ✓		
	9	Y		9000 ✓		
	10	B+W	12:52	9058		

RANGE 363+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ✓ F. B. 1298 Pg. 73
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes ____ Date 2-20-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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F. B. 1298 Pg. 74 Job No. 8412 Division No. V Notes Red. ✓ Plotted ____ Profile
Survey of BEACH EROSION STUDIES Date ____ No. ____
Survey by FHB Notes ____ Notes Chkd. ____ Checked ____ X-Sec.
Indexed J. C. Johnson Date ____ Date ____ Date ____ No. ____

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks RANGE 358+00-S
358+00	S-26	1	B+W	7 15	9000 ✓		
		2	R		9000 ✓		
		3	Y		9[illegible] ✓		
		4	B+W	7 20	9[illegible] ✓		
		5	R		9000 ✓		
		6	Y		90[illegible] ✓		
		7	B+W	7 25	8918 ✓		
		8	R		90[illegible] ✓		
		9	Y		900[illegible] ✓		
		10	B+W	7 35	9000 ✓		
		11	R		902[illegible] ✓		
		12	Y		91[illegible] ✓		
		13	B+W	7 41	9016 ✓		

RANGE 358+00 S

2-24-53

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	
358+00	S-26	1	B&W	1238	64°49'	cut in	363+00
		2	R		63°53'		
		3	Y		63°25'		
		4	B&W	1245	60°35'		
		5	R		58°25'		
		6	Y		54°15'		
		7	B&W	1250	52°12'		
		8	R		51°31'		
		9	Y		47°25'		
		10	B&W	1252	45°54'		

CUT IN 363+00 S

Profile Notes Red ____ Plotted ____ Job No. 8417 Division No. ✓ F. B. 1298 PG. 75
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-20-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76E298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
363+00	S 25	1	B&W	7 15	62° 52' ✓	Cut in	358+00
		2	R		[illegible] ✓		
		3	Y		61° 31' ✓		
		4	B&W	7 20	[illegible] ✓		
		5	R		[illegible] ✓		
		6	Y		[illegible] 29' ✓		
		7	B&W	7 25	[illegible] 28' ✓		
		8	R		5[illegible] 01' ✓		
		9	Y		51° 54' ✓		
		10	B&W	7 35	4[illegible] 11' ✓		
		11	R		46° 03' ✓		
		12	Y		4[illegible] 03' ✓		
		13	B&W	7 41	4[illegible] 26' ✓		

Cut in 358+00 S

2-2X-53

F. B. 1298 Pg. 76
Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes Notes Chkd. Checked X-Sec.
Indexed M. O. Johnson Date Date Date No.

76L298 307 10-51

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BOAT

Do not extend notes this side of this line. 358+00 S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
1	BW	715	320 305	31.0	5.8	25.2	977	ANDERSON - DEAD
2	R		317 293	30.1		24.3	955	KVAMMEN - RECORD
3	Y		307 280	28.9		23.1	920	STANGELAND - OARS
4	BW	720	295 268	27.7	5.7	22.0	868	
5	R		280 248	25.9		20.2	810	
6	Y		260 240	24.7		19.0	760	
7	BW	726	254 230	23.8	5.7	18.1	712	
8	R		236 212	22.0	5.7	16.3	663	
9	Y		227 200	20.9	5.6	15.3	640	
10	BW	736	202 172	18.2	5.6	12.6	560	
11	R		180 158	16.5		10.9	525	
12	Y		172 140	15.1		9.5	472	
13	BW	743	158 128	13.8	5.6	8.2	460	

Profile
No. X-Sec. Notes Red RAW Plotted Job No. 8412 Division No. V
Date 4-16-53 Date Survey of BEACH EROSION STUDIES
Notes Chkd KRK Checked Survey by FHB Notes KRK Date 2-2Y-53
No. Date 4-23-53 Date Map No. Indexed Date

F.B. 1298 Pg. 77

Boat 358+00 S

76L298 307 10-51

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BOAT

Do not extend notes this side of this line. 353+00 S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
1	BW	813	312 295	30.1	5.1	25.0	1046	ANDERSON - LEAD
2	R		310 265	28.0	5.1	22.9	920	KVAMMEN - RECORD
3	Y		288 259	26.9	5.0	21.9	845	STANGELAND - OARS
4	BW	824	260 239	24.6	4.9	19.7	753	
5	R		237 220	22.6	4.9	17.7	700	
6	Y		229 195	20.6	4.8	15.8	655	
7	BW	830	190 174	17.9	4.8	13.1	568	
8	R		182 164	17.0	4.8	12.2	545	
9	Y		174 149	15.7	4.7	11.0	509	
10	BW	835	162 135	14.4	4.7	9.7	460	
11	R		140 120	12.7	4.7	8.0	448	

Boat
353+00 S

2-24-53

F.B. 1298 PG. 78 Job No. 8412 Division No. ✓ Notes Red. RCW Plotted ____ No. ____ Profile
Survey of BEACH EROSION STUDIES Date 4-16-53 Date ____ X-Sec.
Survey by FHB Notes KRK Notes Chkd. KRK Checked ____
Indexed R. O. Johnson Date ____ Date 4-23-53 Date ____ No. ____

F. B. 1298 Pg. 78-A

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work LCW.	Surveyed by
Checked	Notes Date
Date	Indexed

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726 LOS ANGELES COUNTY
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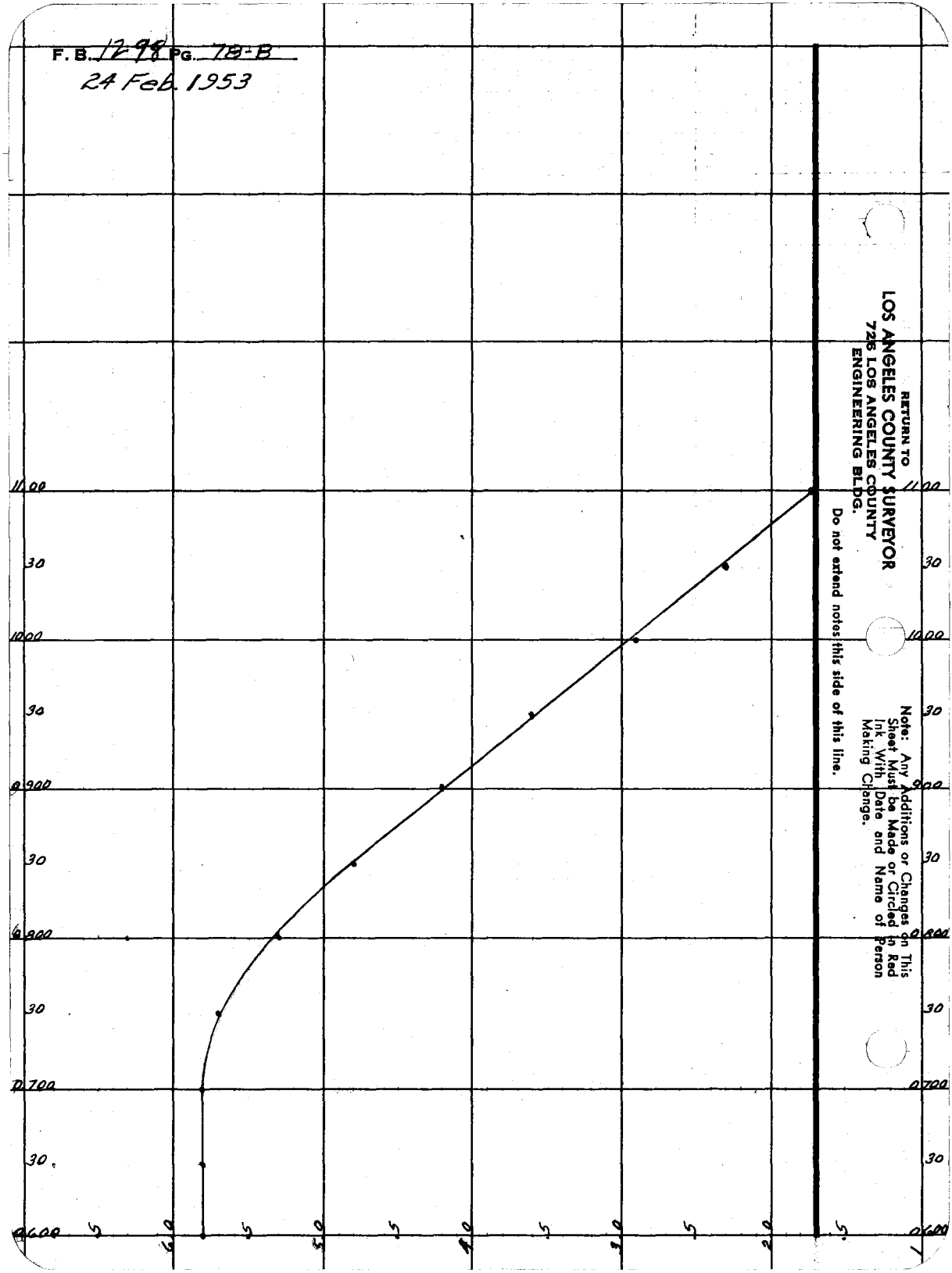
76F3085 247 2-51

F. B. 1298 PG. 78-B

24 Feb. 1953



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F. B. 1298 Pg. 79

Notes Ck'd by
Map No.
Office Work LCW.
Checked
Date

Survey of
W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed A. C. Johnson

FEB. 24 1953

SANTA MONICA PIER

TIME	GAGE
0600	5.8
0630	5.8
0700	5.8
0730	5.7
0800	5.3
0830	4.8
0900	4.2
0930	3.6
1000	2.9
1030	2.3
1100	1.7
1130	1.1
1200	0.6
1230	0.2
1300	-0.1
1330	-0.2
1400	-0.2
1430	-0.1

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ENGINEERING BLDG.

76F309S 247 2-51

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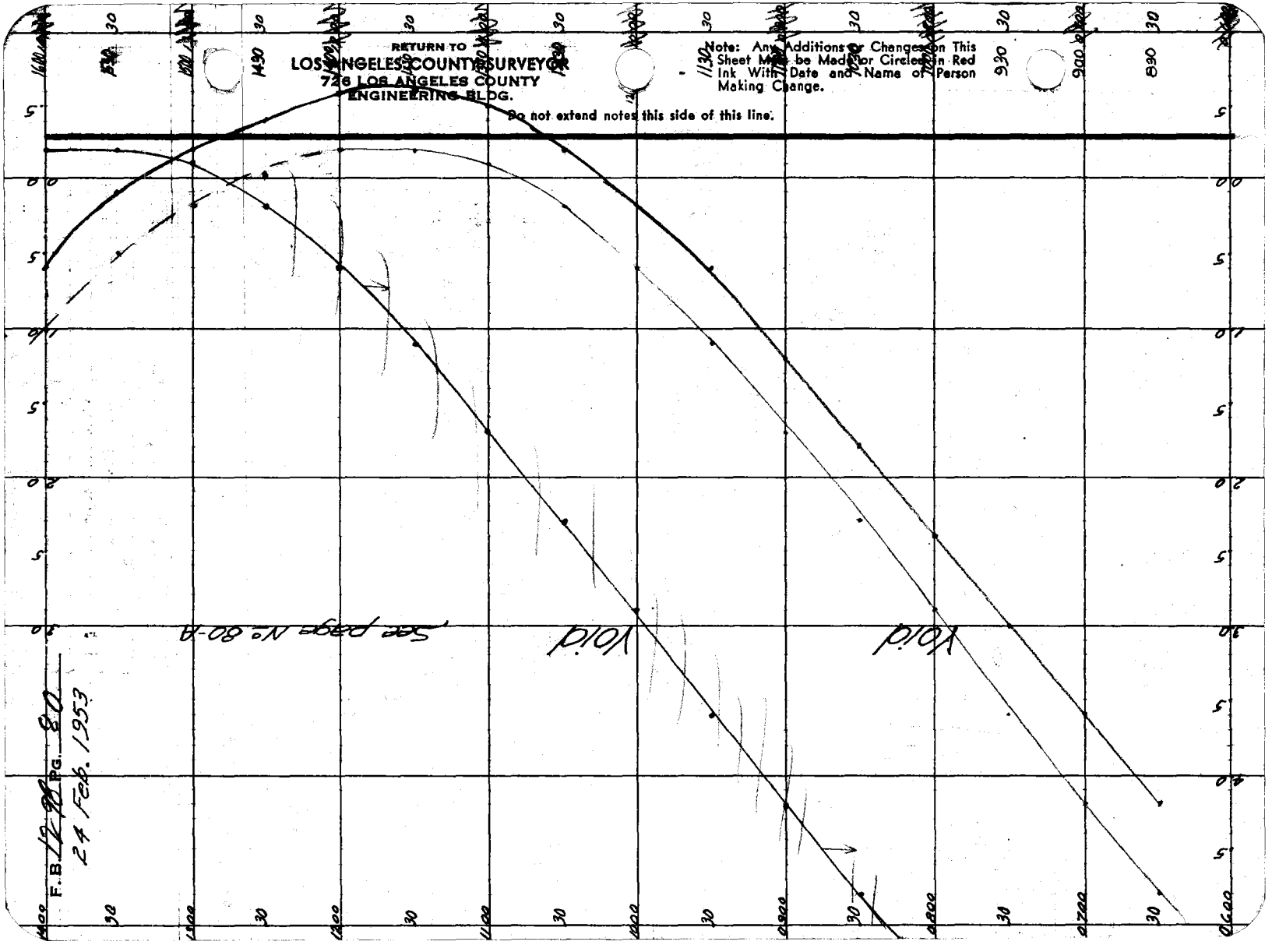

76F3095 247 2-51

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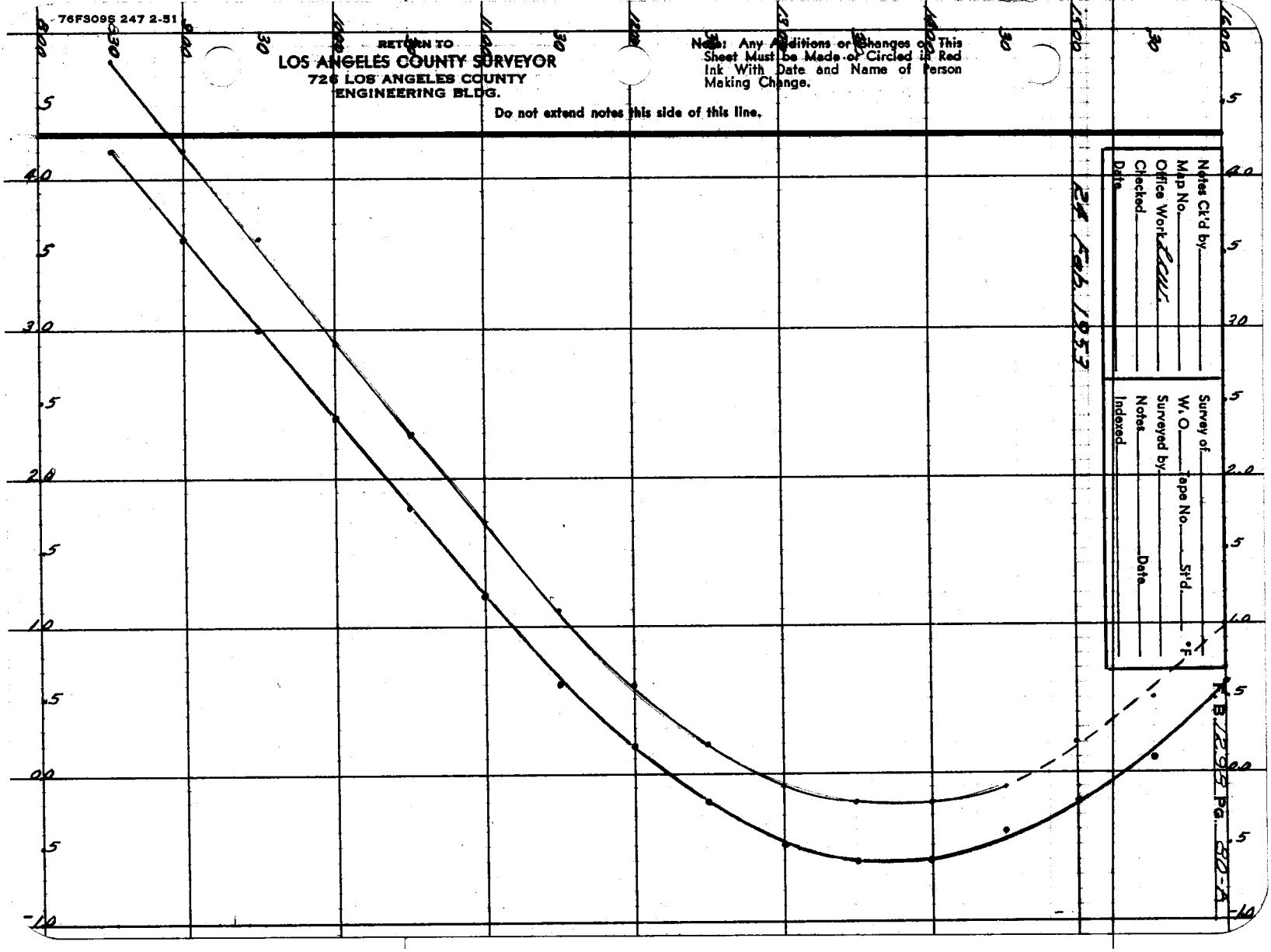

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723 LOS ANGELES COUNTY
ENGINEERING BLDG.

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F.B. _____ PG. _____

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.			
					Cut-in ℄		
					Inst. at	353+00	?
					Sight on	355+50	?
353+00.	3 33	17 32		13 99			1x2
14' R.			1 2	16 1			Brk.
10' L.			3 7	13 6			"
50' L.			9 1	8 2			"
T. P.	1 25	6 38	12 19	5 13			1x2
			7 0	-0 6	24°58	116	under water
			10 0	-3 6	35°26	178	" "
			8 5	-2 1	43°12	235	" "
			11 0	-4 6	53°45	341	" "
			13 5	-7 1	58°01	400	" "

Inshore
353+00 S.

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1288 Pg. 61
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by English Notes English Date 2-24-53
No. Date 4-17-53 Date Map No. Indexed Date

Indexed

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.	Cut-in ∡	
					Inst. at 345+50	
					Sight on 348+00	
348+00 S.	3 53	16 13		12 60	✓	1x2
18' R.			1 0	15 1	✓	Brk.
15' L.			3 8	12 3	✓	"
65' L.			9 3	6 8	✓	"
T.P.	1 29	5 18	12 24	3 89		1x2
			3 4	+1 8	23° 05' 106	under Water
			7 0	-1 8	34° 04' 169	" "
			8 0	-2 8	39° 26' 206	" "
			9 0	-3 8	45° 44' 256	" "
			9 5	-4 3	50° 43' 306	" "
			9 6	-4 4	55° 08' 359	" "
			10 0	-4 8	55° 52' 369	" "
			13 5	-8 3	59° 57' 432	" "

Inshore 348+00 S.

F. B. 1298 Pg. 82 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. Checked
Indexed A. C. Johnson Date Date 4-17-53 Date No.

76L298 307 4-50

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3

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 348+00-S
348+00	S-26	1	B+W	8:52	9000 ✓		
		2	R		8937 ✓		
		3	Y		9000 ✓		
		4	B+W	859	8914 ✓		
		5	R		8931 ✓		
		6	Y		8925 ✓		
		7	B+W	9:11	9000 ✓		
		8	R		9000 ✓		
		9	Y		8900 ✓		
		10	B+W	918	9000 ✓		
		11	R		8919 ✓		
		12	Y		9000 ✓		
		13	B+W	923	8929 ✓		
		14	R		8903 ✓		

REVERSED

RANGE 348+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ✓ F. S. 1298 Pg. 63
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-24-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76829B 307 4-50

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2

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
353+00	S-26	1	B+W	8 12	9000 ✓		RANGE 353+00-S
		2	R		9034 ✓		
		3	Y		9000 ✓		
		4	B+W	8 23	9110 ✓		
		5	R		90[illegible] ✓		
		6	Y		9000 ✓		
		7	B+W	8 29	9000 ✓		
		8	R		9059 ✓		
		9	Y		8920 ✓		
		10	B+W	8 35	9044 ✓		
		11	R		9000		

RANGE 353+00 S

2-24-53

F. B. 1298 Pg. 84 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes Notes Chkd. Checked X-Sec.
Indexed R. O. Johnson 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	
348+00	S-26	1	B&W	8 12	64°24' ✓	Cut in	353+00
		2	R		61°48' ✓		
		3	Y		59°26' ✓		
		4	B&W	8 23	57°08' ✓		
		5	R		54°36' ✓		
		6	Y		52°41' ✓		
		7	B&W	8 29	48°41' ✓		
		8	R		47°44' ✓		
		9	Y		45°08' ✓		
		10	B&W	8 35	43°15' ✓		
		11	R		41°54'		

CUT IN ~~353+00~~ 353+00S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ✓ F. B. 1298 Pg. 85
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-2-53
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
358+00	S-25	1	B&W	8 52	66° 26' ✓	Cut in 348+00
		2	R		66° 13' ✓	
		3	Y		[illegible] 51' ✓	
		4	B&W	8 59	[illegible] 16' ✓	
		5	R		[illegible] 27' ✓	
		6	Y		[illegible] 08' ✓	
		7	B&W	9 11	[illegible] 30' ✓	
		8	R		[illegible] 51' ✓	
		9	Y		[illegible] 29' ✓	
		10	B&W	9 18	[illegible] 02' ✓	
		11	R		49° 13' ✓	
		12	Y		49° 39' ✓	
		13	B&W	9 23	[illegible] 29' ✓	
		14	R		[illegible] 47' ✓	

Cut In 348+00 S

2-24-53

F. B. 1298 Pg. 86 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Chkd. Checked
Indexed [illegible] Date Date Date No.

76L298 307 10-51

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BOAT

Do not extend notes this side of this line. 348+00 S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
1	BW	8.52	330 305	31.3	4.3	27.0	1150v	ANDERSON - LEAD
2	R		320 299	30.6	4.3	26.3	1110v	KUAMMEN - RECORD
3	Y		302 280	28.7	4.2	24.5	1020v	STANGELAND - OARS
4	BW	8.59	289 270	27.6	4.2	23.4	965v	
5	R		290 260	27.0	4.1	22.9	940v	
6	Y		269 243	25.2	4.0	21.2	895v	
7	BW	9.11	252 230	23.7	3.9	19.8	817v	
8	R		240 215	22.3	3.9	18.4	800v	
9	Y		240 200	21.3	3.8	17.5	737v	
10	BW	9.18	230 190	20.3	3.8	16.5	665v	
11	R		185 170	17.5	3.8	13.7	578v	
12	Y		186 158	16.7	3.8	12.9	570v	
13	BW	9 23 24	170 142	15.1	3.7	11.4	506v	
14	R		152 132	13.9	3.7	10.2	500v	

Boat 348+00 S

Profile
No. ____ Notes Red LOW Plotted ____ Job No. 8412 Division No. V
Date 4-16-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. ____ Notes Chkd KRK Checked ____ Survey by FHB Notes KRK Date 2-24-53
No. ____ Date 4-24-53 Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1298 Pg. 67

76L298 307 10-51

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BOAT

Do not extend notes this side of this line. 343+00 RANGE 5

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS. DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
1	BW	946	297 275	28.2	3.2	25.0	1038✓	ANDERSON — LEAD
2	R		290 265	27.3	3.2	24.1	1000✓	KVAMMEN — RECORD
3	Y		272 245	25.4	3.1	22.3	921✓	STANGELAND — OARS
4	BW	957	255 232	24.0	3.1	20.9	861✓	
5	R		240 215	22.3	3.0	19.3	797✓	
6	Y		220 198	20.5	3.0	17.5	730✓	
7	BW	1003	216 182	19.3	2.9	16.4	708✓	
8	R		205 188	19.4	2.9	16.5	677✓	
9	Y		180 150	16.0	2.8	13.2	586✓	
10	BW	1009	170 142	15.1	2.8	12.3	570✓	
11	R		165 132	14.3		11.5	530✓	
12	Y		164 122	13.6		10.8	500✓	

Boat 343+00 S

2-24-53

F.B. 1298 PG. 88 Job No. 8412 Division No. ✓ Notes Red. Rcur. Plotted ____ No. ____ Profile
Survey of BEACH EROSION SURVEY Date 4-16-53 Date ____ X-Sec.
Survey by FHK Notes KRK Notes Chkd KRK Checked ____ No. ____
Indexed A. C. Johnson Date ____ Date 4-24-53 Date ____

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at S-25	
					Sight on. 343+00	
343+00	3.08	17 03		13 95		1x2
40' R.			1 3	15 7		Brk.
32' L.			4 8	12 2		"
70' L.			9 7	7 3		"
T.P.	0 58	5 41	12 20	4 83		1x2
			4 5	0 9	48° 09' 120	under water
			7 0	-1 6	51° 57' 138	"
			8 0	-2 6	55° 58' 153	
			6 2	-0 8	59° 49' 174	
			6 7	-1 3	69° 39' 248	
			8 6	-3 2	74° 27' 302	
			13 3	-8 9	82° 01' 450	

Inshore
343+00 S.

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1298 Pg. 89
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. [illegible] Checked Survey by English Notes English Date 2-24-53
No. Date 4-17-53 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 ∡		
					Inst. at 338+00		
					Sight on 340+50		
340+50 S.	1 41	21 81		20 40			N.& T.
22' L.			2 0	19 8			T. BK.
34' L.			4 2	17 6			B. "
100' L.			14 6	7 2			"
T.P.	1 10	12 21	10 70	11 11			1 x 2
"	1 11	5 32	8 00	4 21			"
130' L.			1 1	4 2			Brk.
			6 5	-1 2	32° 30'	178	under water
			8 8	-3 5	40° 11'	241	
			9 9	-4 6	44° 47'	291	
			8 7	-3 4	47° 08'	321	
			10 9	-5 6	52° 20'	400	
			12 5	-7 2	54° 21'	440	

Inshore 340+50 S.

F. B. 1298 PG. 90 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. Checked
Indexed [illegible] Date Date 4-17-53 Date No.

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4

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 343+00-S
343+00	S-25	1	B+W	9:45	8130'	✓	
		2	R		8200	✓	
		3	Y		8200	✓	
		4	B+W	9:56	8200	✓	
		5	R		8200	✓	
		6	Y		8200	✓	
		7	B+W	10:02	8200	✓	
		8	R		8200	✓	
		9	Y		8200	✓	
		10	B+W	10:08	8200	✓	
		11	R		8258	✓	
		12	Y		8200	✓	

Range 343+00S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1298 Pg. 91
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FH B Notes ____ Date 2-2X-53
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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5

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 340+50-S
340+50	S-25	1	B+W	10:28	8237	✓	
		2	R		8309	✓	
		3	Y		8238	✓	
		4	B+W	10:33	8200	✓	
		5	R		8200	✓	
		6	Y		8256	✓	
		7	B+W	10:37	8200	✓	
		8	R		8320	✓	
		9	Y		8318	✓	
		10	B+W	10:41	8239	✓	
		11	R		8314	✓	
		12	Y		8330	✓	
		13	B+W	10:44	8404	✓	
		14	R		8200	✓	

RANGE 340+50 S

2-24-53

F. B. 1298 Pg. 92
Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes Notes Chkd. Checked X-Sec.
Indexed A. A. Johnson Date Date Date No.

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
338+00	S-25	1	B&W	9 45	57° 28'	✓	Cut in 343+00
		2	R		57° 10'	✓	
		3	Y		55° 28'	✓	
		4	B&W	9 56	54° 00'	✓	
		5	R		52° 11'	✓	
		6	Y		50° 16'	✓	
		7	B&W	10 02	49° 31'	✓	
		8	R		48° 26'	✓	
		9	Y		44° 49'	✓	
		10	B&W	10 08	44° 10'	✓	
		11	R		42° 54'	✓	
		12	Y		40° 59'	✓	

Cut in 318+00 S

343+00

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ✓ F. B. 1298 Pg. 93
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHE Notes ____ Date 2-24-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-25	S-24	1	B&W	10 28	77° 47'	✓	Cut in 340+50
		2	R		[illegible] 46'	✓	
		3	Y		[illegible] 24'	✓	
		4	B&W	10 33	74° 48'	✓	
		5	R		74° 16'	✓	
		6	Y		72° 43'	✓	
		7	B&W	10 37	72° 22'	✓	
		8	R		6[illegible]° 41'	✓	
		9	Y		67° 37'	✓	
		10	B&W	10 40	67° 11'	✓	
		11	R		65° 12'	✓	
		12	Y		6[illegible]° 46'	✓	
		13	B&W	10 44	62° 34'	✓	
		14	R		62° 00'	✓	

Cut In 340+50 S

2-24-53

F. B. 1298 Pg. 94 Job No. 8412 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 C. Johnson Date Date Date No.

76L298 307 10-51

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ROAT

Do not extend notes this side of this line. 340-50 S RANGE

STATION	B. S.	H. I.	F. S.	ELEV.			
# COLOR	TIME	MEAS DEPTH	BOTTOM	TIDE	ADJUSTED DEPTH	DEPTH Distance	REMARKS
		290					
1 BW	1029	265	27.3	2.3	25.0	1090V	ANDERSON - LEAD
		275					
2 R		250	25.8		23.5	1014V	KUAMMEN - RECORD
		265					
3 Y		240	24.8		22.5	978V	STANGELAND - OAKS
		257					
4 BW	1034	235	24.2	2.3	21.9	921V	
		242					
5 R		220	22.7	2.3	20.4	900V	
		232					
6 Y		215	22.1	2.2	19.9	870V	
		230					
7 BW	1038	205	21.3	2.2	19.1	829V	
		225					
8 R		195	20.5	2.2	18.3	725V	
		198					
9 Y		185	18.9	2.1	16.8	716V	
		199					
10 BW	1041	173	18.2	2.1	16.1	690V	
		188					
11 R		150	16.3		14.2	653V	
		170					
12 Y		150	15.7		13.6	627V	
		182					
13 BW	1044	145	15.7	2.1	13.6	608V	
		150					
14 R		120	13.0		10.9	563V	

BOOT 340-50 S

Profile
No. Notes Red EDWE Plotted Job No. 541 Division No. V F.B. 1298 Pg. 95
X-Sec. Date 4-16-53 Date Survey of BEACH EROSION STUDIES
No. Chkd KPK Checked Survey by EHB Notes KPK Date 1-24-53
Date 4-24-53 Date Map No. Indexed Johnson Date

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BOAT

Do not extend notes this side of this line. 338+00 S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	COLOR	TIME	MEAS. DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
1	BW	1104	280 260	26.7	1.6	25.1	1108✓	ANDERSON - LEAD
2	R		270 245	25.3	1.5	23.8	1070✓	KUAMMEN - RECORD
3	Y		253 230	23.8	1.4	22.4	1003✓	STANGELAND - OARS
4	BW	1112	240 220	22.7	1.4	21.3	928✓	
5	R		228 205	21.3	1.4	19.9	904✓	
6	Y		208 192	19.7	1.3	18.4	812✓	
7	BW	1121	188 165	17.3	1.3	16.0	690✓	
8	R		180 150	16.0	1.3	14.7	649✓	
9	Y		160 140	14.7	1.2	13.5	617✓	
10	BW	1124	148 118	12.8	1.2	11.6	590✓	

Boat 338+00 S

2-24-53

F.B. 1298 Pg. 96 Job No. 8412 Division No. ✓ Notes Red. LRW Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES Date 4-16-53 Date ____ No. ____
Survey by FAB Notes KRK Notes Chkd. KRK Checked ____ X-Sec. ____
Indexed R. C. Johnson Date ____ Date 4-24-54 Date ____ No. ____

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 338+00		
					Sight on 340+50		
338+00 S.	1 44	23 83		22 39			N.&T.
13' L.			1 0	22 8			Brk
28' L.			6 7	17 1			"
55' L.			9 0	14 8			"
T.P.	0 0	10 02	13 81	10 02			1x2
117' L			4 0	6 0			Brk.
147' L.			7 5	2 5			"
T.P.	0 19	3 45	6 76	3 26			1x2
			6 7	-3 2	40° 22'	192	under water
			6 2	-2 7	46° 00'	228	" "
			6 6	-3 1	51° 11'	270	" "
			7 5	-4 0	56° 32'	318	" "
			8 9	-5 4	61° 13'	370	" "
			10 0	-6 5	65° 07'	420	" "
			13 0	-9 5	68° 17'	470	" "

Inshore
338+00 S.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 Pg. 97
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. LOUE Checked ____ Survey by English Notes English Date 2-24-53
Date 4-17-53 Date ____ Map No. ____ Indexed ____ Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡	
					Inst. at S-24 Sight on 335+50	
335+50.S	1 28	22 57		21 29		N.& T.
12' L.			1 2	2[illegible] 4		Brk.
27' L.			6 0	1[illegible] 6		"
45' L.			6 9	15 7		"
T.P.	1 00	10 87	12 70	[illegible] 87		1x2
100' L.			3 1	7 8		"
128' L.			6 3	4 6		"
T.P.	1 02	6 02	5 87	5 00		1x2
			5 7	0 3	47°31' 179	under water
			8 2	-2 2	50°55' 201	" "
			7 3	-1 3	58° 16' 264	" "
			7 7	-1 7	64° 26' 342	" "
			10 5	-4 5	71° 40' 493	" "
			13 0	-7 0	76° 22' 674	" "

Inshore 335+50 S.

F.B. 1298 Pg. 98 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked No.
Indexed R. C. Johnson Date Date 4-17-53 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 RANGE 338+00-S
338+00	S-25	1	B+W	11:03	82°59'	✓	
		2	R		8200	✓	
		3	Y		8200	✓	
		4	B+W	11:12	8245	✓	
		5	R		8200	✓	
		6	Y		8200	✓	
		7	B+W	11:20	8200	✓	
		8	R		8200	✓	
		9	Y		8311	✓	
		10	B+W	11:23	8547	✓	

RANGE 338+00 S

Profile Notes Red ____ Plotted ____ Job No. 84112 Division No. V F. B. 1298 Pg. 99
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd ____ Checked ____ Survey by FHG Notes ____ Date 2-24-53
No. ____ Date ____ Date ____ Map No. ____ [redacted] Date ____

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	RANGE 335+50-S
335+50	S-24	1	B+W	11:37	9159'	✓	
		2	R		9055	✓	
		3	Y		9000	✓	
		4	B+W	11:44	9000	✓	
		5	R		9000	✓	
		6	Y		9000	✓	
		7	B+W	11:49	8933	✓	
		8	R		8857	✓	
		9	Y		8908	✓	
		10	B+W	11:53	9000	✓	
		11	R		9000'	✓	
		12	Y		9000'	✓	
		13	B+W	11:57	8911'	✓	

RANGE 335+50 S

2-2X-53

F. B. 1298 Pg. 100 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked
Indexed K. C. Johnson Date Date Date No.

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-25	S-24	1	B&W	11 03	66° 00'	✓	Cut in 338+00
		2	R		66° 00'	✓	
		3	Y		63° 58'	✓	
		4	B&W	11 12	61° 06'	✓	
		5	R		60° 52'	✓	
		6	Y		57° 36'	✓	
		7	B&W	11 21	52° 18'	✓	
		8	R		50° 15'	✓	
		9	Y		47° 55'	✓	
		10	B&W	11 23	45° 28'	✓	

Profile Notes Red. ____ Plotted ____ Job No. 8K12 Division No. ✓ F. B. 1298 Pg. 101
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-2-X-53
No. ____ Date ____ Date ____ Map No. ____ Inspected ____ Date ____

Cut in 338+00S

F. B. 1298 Pg. 102 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

761298 307 4-50

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STATION		B. S.	H. I.	F. S.	ELEV.			
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks	
340+50	S-24	1	B&W	11 37	70° 45'	✓	Cut in	335+50
		2	R		70 48	✓		
		3	Y		70 27'	✓		
		4	B&W	11 44	68 18'	✓		
		5	R		65° 57'	✓		
		6	Y		6[illegible] 40'	✓		
		7	B&W	11 49	6[illegible] 49'	✓		
		8	R		[illegible] 04'	✓		
		9	Y		58° 52'	✓		
		10	B&W	11 54	57° 07'	✓		
		11	R		53° 48'	✓		
		12	Y		52° 02'	✓		
		13	B&W	11 58	5[illegible]° 12'	✓		

CUT IN 335+50 S

2-24-53

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BOAT

Do not extend notes this side of this line. 335+50 S RANGE

STATION	B. S.	H. I.	F. S.	ELEV.			
# COLOR	TIME	MEAS. DEPTH	BOTTOM	TIDE	ADJUSTED DEPTH	Distance	REMARKS
1 BW	1138	298 270	27.9	1.0	26.9	1200✓	ANDERSON - LEAD
2 R		280 260	26.7	1.0	25.7	1155✓	KUAMMEN - RECORD
3 Y		271 251	25.8	0.9	24.9	1095✓	STANGELAND - OARS
4 BW	1145	250 228	23.5	0.8	22.7	1000✓	
5 R		240 225	23.0	0.8	22.2	910✓	
6 Y		217 198	20.4	0.7	19.7	832✓	
7 BW	1150	208 180	18.9	0.7	18.2	800✓	
8 R		198 170	17.9	0.7	17.2	738✓	
9 Y		180 159	16.6	0.7	15.9	685✓	
10 BW	1154	180 150	16.0	0.7	15.3	682✓	
11 R		150 130	13.7	0.6	13.1	592✓	
12 Y		140 120	12.7	0.6	12.1	559✓	
13 BW	1158	130 105	11.3	0.6	10.7	535✓	

Boat 335+50 S

Profile No. ____ Notes Red. ROW Plotted ____ Job No. SYN Division No. ✓ F.B. 1298 Pg. 103
Date 4-16-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd KRK Checked ____ Survey by FHB Notes KRK Date 2-24-53
Date 4-24-54 Date ____ Map No. ____ Date ____

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BOAT

Do not extend notes this side of this line. 333+00S RANGE

STATION		B. S.	H. I.	F. S.	ELEV.			
#	OCCOR	TIME	MEAS. DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
1	BW	1222	272 247	25.5	0.3	25.2	1068	ANDERSON — LEAD
2	R		255 230	23.8	0.3	23.5	958	KVAMMEN — RECORD
3	Y		226 210	21.5	0.2	21.3	890	STANGELAND — OARS
4	BW	1227	223 200	20.8	0.2	20.6	847	
5	R		215 190	19.8		19.6	843	
6	Y		225 180	19.5		19.3	795	2 BIG WAVES
7	BW	1232	230 180	19.7	0.2	19.5	792	
8	R		197 172	18.0	0.2	17.8	755	
9	Y		200 161	17.4	0.1	17.3	709	
10	BW	1238	162 142	14.9	0.1	14.8	590	
11	R		148 122	13.1		13.0	538	
12	Y		140 100	11.3		11.2	510	

Boat 333+00 S

2-24-53

F.B. 1298 PG. 104 Job No. 8412 Division No. ✓ Notes Red. RCW Plotted ____ No. ____ Profile

Survey of BEACH EROSION STUDIES Date 4-16-53 Date ____ X-Sec.

Survey by FHB Notes KRK Notes Chkd. KRK Checked ____ No. ____

Indexed C. Johnson Date ____ Date 4-24-53 Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 331+50		
					Sight on 333+00		
333+00	1 76	21 88		20 12			N.& T.
17' L.			1 7	20 2			Brk.
32' L.			7 1	14 8			"
43' L.			8 5	13 4			"
80 L.			15 3	6 6			"
T.P.	0 00	6 70	15 18	6 70			1 X 2
			5 2	1 5	38°31'	119	under Water
			9 4	-2 7	46°43'	159	" "
			10 7	-4 0	55°04'	215	" "
			13 0	-6 3	65°05'	323	" "

Inshore
333+00 S.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 12 Pg. 105
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. [illegible] Date 4-17-53 Checked ____ Date ____ Survey by English Notes English Date 2-24-53
Map No. ____ Indexed Johnson Date ____

76L298 307 10-51

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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.	Cut-in ∡	
					Inst. at 328+44	
					Sight on 330+50	
330+50 S.	2 36	22 53		20 17	✓ ✓	N.&T.
14' L.			1 9	20 6	✓ ✓	Brk.
31' L.			9 5	13 0	✓ ✓	"
T.P.	2 00	11 38	13 15	9 38	✓	1x2
75' L.			6 5	4 9	✓ ✓	Brk.
T.P.	0 76	5 59	6 55	4 83	✓	1x2
			3 6	2 0	✓ 24° 50' 95 ✓	under water
			7 3	-1 7	✓ 35° 07' 145 ✓	" "
			6 5	-0 9	✓ 40° 43' 177 ✓	" "
			7 5	-1 9	✓ 48° 00' 229 ✓	" "
			9 3	-3 7	✓ 54° 05' 284 ✓	" "
			10 3	-4 7	✓ 56° 21' 309 ✓	" "
			12 5	-6 9	✓ 59° 18' 347	" "

Inshore 330+50 S.

F.B. 1298 PG. 106 Job No. 8412 Division No. Notes Red. Plotted K.R.K. Profile
Survey of Beach Erosion Studies Date Date 6-16-53 No. X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked [illegible] No.
Indexed K. C. Johnson Date Date 4-17-53 Date 6-16-53 No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
333+00 S-23	1	B&W	12:21	91° 36'	✓	
	2	R		90°00'	✓	
	3	Y		90° 00	✓	
	4	B&W	12 26	90° 00	✓	
	5	R		91° 26'	✓	
	6	Y		90° 00	✓	
	7	B&W	12:31	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B&W	12:37	91°45'	✓	
	11	R		90°51'	✓	
	12	Y		90°00'	✓	

RANGE 333+00 S

Profile Notes Red 1 Plotted Job No. 8412 Division No. V F. B. 1298 Pg. 107
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by FHB Notes Date 2-24-53
No. Date Date Map No. Indexed J. C. Johnson Date

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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 RANGE 330+50-S
330+50	S-23	1	B+W	1:02	90°47'	✓	
		2	R		90°00'	✓	
		3	Y		91°00'	✓	
		4	B+W	1:06	90°00'	✓	
		5	R		90°57'	✓	
		6	Y		91°41'	✓	
		7	B+W	1:11	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		90°00'		
		10	B+W			✓	

RANGE 330+50 S

2-24-53

F. B. 1298 Pg. 108 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FH B Notes Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson Date Date Date No.

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STATION		B. S.	H. I.	F. S.	ELEV.			
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks	
328+30	S-23	1	B&W	12 21	66° 41'	✓	Cut in	333+00
		2	R		63° 50'	✓		
		3	Y		62° 10'	✓		
		4	B&W	12 26	60° 56'	✓		
		5	R		61° 54'	✓		
		6	Y		59° 20'	✓		
		7	B&W	12 31	59° 15'	✓		
		8	R		57° 59'	✓		
		9	Y		56° 26'	✓		
		10	B&W	12 37	52° 24'	✓		
		11	R		49° 14'	✓		
		12	Y		47° 13'	✓		

Cut in 333+00 S

Profile Notes Red. ____ Plotted ____ Job No. BY12 Division No. V F. B. 1298 Pg. 109
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-24-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1298 Pg. 110 Job No. 84120 Division No. V Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by F.H.B. Notes Notes Chkd. Checked X-Sec.
Indexed [redacted] O. Johnson Date Date Date No.

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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
325+50	S-23	1	B&W	1:02	62° 45'	✓	Cut in 330+50
		2	R		61° 57'	✓	
		3	Y		60° 55'	✓	
		4	B&W	1.06	59° 29'	✓	
		5	R		56° 38'	✓	
		6	Y		55° 57'	✓	
		7	B&W	1.12	5[illegible]° 31'	✓	
		8	R		47° 52'	✓	
		9	Y				
		10	B&W	1.15	43° 57'	✓	

Cut in 330+50 S

2-24-55

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BOAT

Do not extend notes this side of this line. 330+50 S ~~RANGE~~

*STATION	B. S.	H. I.	F. S.	ELEV.			
# COLOR	TIME	MEAS. DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
1 BW	~~102~~ 1302	265 245	25.2	-0.1	25.3	947	ANDERSON - LEAD
2 R		256 234	24.1		24.2	938	KUAMMEN - RECORD
3 Y		240 210	22.0		22.1	870	STANGELAND - OARS
4 BW	~~107~~ 1307	245 195	21.2	-0.1	21.3	849	
5 R		224 183	19.7		19.8	742	
6 Y		200 170	18.0		18.1	713	
7 BW	~~112~~ 1312	182 153	16.3	-0.1	16.4	630	
8 R		167 135	14.6	-0.1	16.7	552	
9 Y		160 115	13.0	-0.2	13.2		
10 BW	~~116~~ 1316	130 103	11.2	-0.2	11.4	481	

Boat 330+50 S

Profile Notes Red LOW Plotted ____ Job No. 8412 Division No. V F.B. 1298 Pg. 111
No. ____ Date 4-16-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd KRK Checked ____ Survey by FHB Notes KRK Date 2-24-53
No. ____ Date 4-24-53 Date ____ Map No. ____ Indexed Johnson Date ____

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Do not extend notes this side of this line. 328+30 S Boat

STATION #	COLOR	B. S. TIME	H. I. MEAS DEPTH	F. S. BOTTOM	ELEV. TIDE	ADJUSTED	DEPTH Distance	REMARKS
1	BW	1347 ~~147~~	545 530	53.5	-0.2	53.7	2450	ANDERSON — LEAD
2	R		515 509	51.1		51.3	2448	KUAMMEN — RECORD
3	Y		510 499	50.3		50.5	2410	STANGELAND — OARS
4	BW	1356 ~~156~~	500 486	49.1	-0.2	49.3	2390	
5	R		488 464	47.2		47.4	2360	Targets appear to be set on C.L.
6	Y		470 454	45.9		46.1	2220	
7	BW	1405 ~~205~~	460 444	44.9	-0.2	45.1	2250	of groin.
8	R		450 433	43.9		44.1	2262	If so, range
9	Y		432 417	42.2		42.4	2098	distance logged above
10	BW	1414 ~~214~~	414 405	40.8	-0.2	41.0	1970	is incorrect.
11	R		407 395	39.9		40.1	1880	
12	Y		403 390	39.4		39.6	1718	
13	BW	1426 ~~226~~	404 380	38.8	-0.1	38.9	1520	
14	R		383 365	37.1	-0.1	37.2	1580	
15	Y		367 353	35.8	-0.1	35.9	1335	
16	BW	1435 ~~235~~	354 340	34.5	0.0	34.5	1316	
17	R		349 323	33.2		33.2	1290	
18	Y		319 302	30.8		30.8	1132	
19	BW	1441 ~~241~~	310 290	29.7	0.0	29.7	1055	
20	R		281 265	27.0		27.0	980	

Boat 328+30 S

2-24-53

F.B. 1298 PG. 112 Job No. 8412 Division No. ✓ Notes Red [illegible] Plotted ____ No. ____ Profile
Survey of BEACH EROSION SURVEY Date 4-16-53 Date ____ X-Sec.
Survey by FHB Notes KRK Notes Chkd KRK Checked ____ No. ____
Indexed 1298 C. Johnson Date 4-24-53 Date ____

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Do not extend notes this side of this line. 328+30 S Boat (CONT.)

STATION	B. S.	H. I.	F. S.	ELEV.			
# COLOR	TIME	MEAS. DEPTH	BOTTOM	TIDE	ADJUSTED	DEPTH Distance	REMARKS
21 Y		268 250	25.6	0.0	25.6	916✓	
22 BW	1447 ~~247~~	261 230	24.0	.1	23.9	876✓	
23 R		228 211	21.7		21.6	790✓	
24 Y		218 195	20.3	.1	20.2	776✓	
25 BW	1453 ~~253~~	200 175	18.3		18.2	664✓	
26 R		179 155	16.3		16.2	632✓	
27 Y		157 140	14.6		14.5	573✓	
28 BW	1459 ~~259~~	156 130	13.9	.2	13.7	522✓	

Boat 328+30 S

Profile No. ____ Notes Red. LMW Plotted KRK Job No. 8412 Division No. ✓ F.B. 1298 Pg. 113
Date 4-16-53 Date 6-16-53 Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd KRK Checked LMW Survey by FHB Notes KRK Date 2-24-53
Date 4-24-53 Date 6-16-53 Map No. ____ Indexed John Scott Date ____

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Do not extend notes this side of this line. 327 4005 Boat

STATION	B. S.	H. I.	F. S.	ELEV.		
# COLOR	TIME	BOTTOM				REMARKS
1	[illegible]	7 [illegible]	18 0			STANGELAND - LEAD
			76 4			
2 K			[illegible]			KUAMMEN - RECORD
			11 4			
3 V			69 6			ANDERSON - MOTOR
			[illegible]			
4	7 51		[illegible]			
			[illegible]			
5 K			62 6			Bottom [illegible]
			[illegible]			[illegible]
			[illegible]			
7	[illegible]		[illegible]			
			[illegible]			
K			4 9			
			50 [illegible]			
			[illegible]			
Bu	8 16		49 0			← Sheer pin broke
			[illegible]			
			[illegible]			ANDERSON - LEAD
			[illegible]			
			[illegible]			STANGELAND - CARS
	8 28		[illegible]			
			[illegible]			
			[illegible]			
			[illegible]			
	35		38 [illegible]			
			[illegible]			
			[illegible]			
			[illegible]			
	8 42		36 0			
			[illegible]			

VOID
~~Copied~~
see page 129

See over

F.B. 1298 Pg. 114

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

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

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

Indexed R. C. Johnson Date ____ Date ____ Date ____

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Profile No.____ Notes Red____ Plotted____ Job No. 8412 Division No.____ F.B. 1298 Pg. 115
X-Sec. No.____ Date____ Date____ Survey of Beach Erosion Studies
Notes Chkd. Lowe Checked____ Survey by English Notes English Date 2-24-53
Date 4-17-53 Date____ Map No.____ Indexed Johnson Date____

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡ Inst. at 330+50 Sight on 328+44		
328+44	2 00	23 34		21 34		N & T	
17' L.			1 5	21.8		Brk.	
T.P.	0 0	13.73 ~~12 73~~	9 61	13.73 ~~12 73~~		1 x 2	
45' L.			4 4	8.3 ~~8 3~~		Brk.	
80 L.			9 5	4.2 ~~3 2~~		"	
T.P.	1 95	6.23 ~~5 23~~	9 45	4.28 ~~3 28~~		1 x 2	
			4 6	1.6 ~~0 6~~	28° 33' 112	under	water
			7 6	-1.4 ~~-2 4~~	36° 59' 155	"	"
			9 0	-2.8 ~~-3 8~~	43° 47' 197	"	"
			10 5	-4.3 ~~-5 3~~	50° 00' 246	"	"
			11 6	-5.4 ~~-6 4~~	56° 34' 312	"	"
			12 6	-6.4 ~~-7 4~~	59° 53' 355	"	"

Inshore 328+44 S.

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at 330+50		
					Sight on 328+14		
328+14 S.	1 42	22 92		21 50		✓	N&T
17' L.			1 4	21 5		✓	Brk.
37' L.			9 3	13 6		✓	"
T.P.	0 95	13 32	10 55	12 37			1x2
80' L.			5 0	8 3		✓	Brk.
T.P.	0 93	6 40	7 85	5 47			1x2
			4 9	1 5	30° 47'	140	under water
			7 4	-1 0	35° 31'	168	" "
			8 5	-2 1	41° 34'	209	" "
			10 9	-4 5	51° 03'	292	" "
			11 1	-4 7	56° 02'	350	" "
			13 6	-7 2	59° 21'	398	" "

Inshore
328+14 S.

F.B. 1298 PG. 116 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd [illegible] Checked No.
Indexed C. Johnson Date Date 4-17-53 Date

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 328+30-S
328+30	S-23	1	B+W	1:45	91°16'	✓	
		2	R		90°55'	✓	
		3	Y		90°22'	✓	
		4	B+W	1:55	90°00'	✓	
		5	R		90°24'	✓	
		6	Y		90°00'	✓	
		7	B+W	2:04	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		90°00'	✓	
		10	B+W	2:13	91°06'	✓	
		11	R		90°27'	✓	
		12	Y		91°28'	✓	
		13	B+W	2:26	90°00'	✓	
		14	R		90°42'	✓	
		15	Y		90°00'	✓	
		16	B+W	2:35	90°00'	✓	
		17	R		90°00'	✓	
		18	Y		90°00'	✓	
		19	B+W	2:39	90°00'	✓	
		20	R		90°00'	✓	

RANGE 328+30S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ✓ F. B. 1298 Pg. 117
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FAB Notes ____ Date 2-24-52
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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F. B. 1298 Pg. 118 Job No. 8412 Division No. K Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by E.H.B. Notes Notes Chkd. Checked X-Sec.
Indexed J. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst, Sight At On	#	Color	Time	Hor. Ang.		Remarks
	21	Y		90°00'	✓	
	22	B&W	245	90°00'	✓	
	23	R		90°00'	✓	
	24	Y		90°59'	✓	
	25	B&W	252	90°00'	✓	
	26	R		90°00'	✓	
	27	Y		90°00'	✓	
	28	B&W	258	90°00'	✓	

2-24-53

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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
333+00	S-22	1	B&W	1 45	77° 51'	✓	Cut in 328+30
		2	R		78° 08'	✓	
		3	Y		78° 33'	✓	
		4	B&W	1 55	78° 48'	✓	
		5	R		78° 15'	✓	
		6	Y		78° 01'	✓	
		7	B&W	2 05	78° 10'	✓	
		8	R		78° 15'	✓	
		9	Y		77° 23'	✓	
		10	B&W	2 14	75° 34'	✓	
		11	R		75° 36'	✓	
		12	Y		73° 17'	✓	
		13	B&W	2 25	72° 52'	✓	
		14	R		72° 45'	✓	
		15	Y		70° 35'	✓	
		16	B&W	2 34	70° 16'	✓	
		17	R		69° 59'	✓	
		18	Y		67° 25'	✓	
		19	B&W	2 40	65° 56'	✓	
		20	R		64° 15'	✓	

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ✓ F. B. 1298 Pg. 19
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-24-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

Cut In 328+30 S

76L298 307 4-50

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Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks	
333+00	S-22	21	Y		62° 46'	✓	Cut in	328+30
		22	B&W	2 46	[illegible] 42'	✓		
		23	R		59° 07'	✓		
		24	Y		57° 57'	✓		
		25	B&W	2 52	54° 40'	✓		
		26	R		53° 15'	✓		
		27	Y		5[illegible]° 37'	✓		
		28	B&W	2 59	47° 55'	✓		

Cut In 328+30 S

2-2-X-53

Profile
X-Sec.
Plotted ____ Date ____ No. ____
Checked ____ Date ____ No. ____
Notes Red ____ Date ____
Notes Chkd. ____ Date ____
Job No. 8412 Division No. ✓
Survey of BEACH EROSION STUDIES
Survey by FHB Notes ____ Date ____
Indexed C. Johnson
T.B. 1298 Pg. 120

76L298 307 10-51

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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.	Cut-in ∡		
					Inst. at 325+50		
					Sight on 327+00		
327+00	2 03	24 11		22 08		N & T	
17' L.			2 0	22 1		Brk.	
39' L.			11 7	12 4		"	
T.P.	1 15	12 41	12 85	11 26		1x2	
100' L.			6 0	6 4		Brk.	
T.P.	0 35	6 75	6 01	6 40		1x2	
			3 6	3 2	39° 56' 1251	under	water
			7 9	-1 1	46° 22' 1571	"	"
			9 5	-2 7	53° 02' 1991	"	"
			11 0	-4 2	61° 08' 2721	"	"
			12 7	-5 9	66° 27' 3441	"	"

Inshore
327+00 S.

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Date ____ Job No. 8412 Division No. ____
X-Sec. Notes Chkd. Lowe Checked ____ Survey of Beach Erosion Studies
No. ____ Date 4-17-53 Date ____ Survey by English Notes English Date 2-24-53
Map No. ____ Endorsed Johnson Date ____

F.B. 1298 Pg. 121

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at S-22		
					Sight on 325+50		
325+50 S.	1 29	22 77		21 48		✓	N&T
12' L.			2 0	20 8		✓	Brk.
31' L			10 1	12 7		✓	"
T.P.	1 02	11 67	12 12	10 65			1x2
63' L.			2 4	~~9 4~~ 9.3		✓	Brk.
85' L.			4 2	7 5		✓	"
T.P.	0 47	6 24	5 90	5 77		200✓	1x2
			6 7	-0 5	41°54'		
			7 4	-1 2	54°10'	308✓	under water
			8 9	-2 7	61°20'	407✓	" "
			10 4	-4 2	64°11'	460✓	" "
			13 0	-6 8	67°53'	548✓	" "

Inshore 325+50S.

F.B. 1298 PG. 122 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked No.
Indexed [illegible] C. Johnson Date Date 4-17-53 Date

Notes Ck'd by	Survey of	F. B. 1298 Pg. 123
Map No.	W. O. Tape No. St'd. °F	
Office Work ICW	Surveyed by	
Checked	Notes Date	
Date	Indexed E. C. Johnson	

FEB. 25 1953

SANTA MONICA PIER

0600	5.4
0630	5.6
0700	5.7
~~0730~~	~~5.7~~
0800	5.7
0830	~~5.5~~ 5.1
0900	4.6
0930	4.1
1000	3.7
1030	2.9
1100	2.0
1130	1.3
1200	0.9
1230	~~0.4~~
1300	0.0
1330	-0.4
1400	-0.5

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

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76F309S 247 2-51

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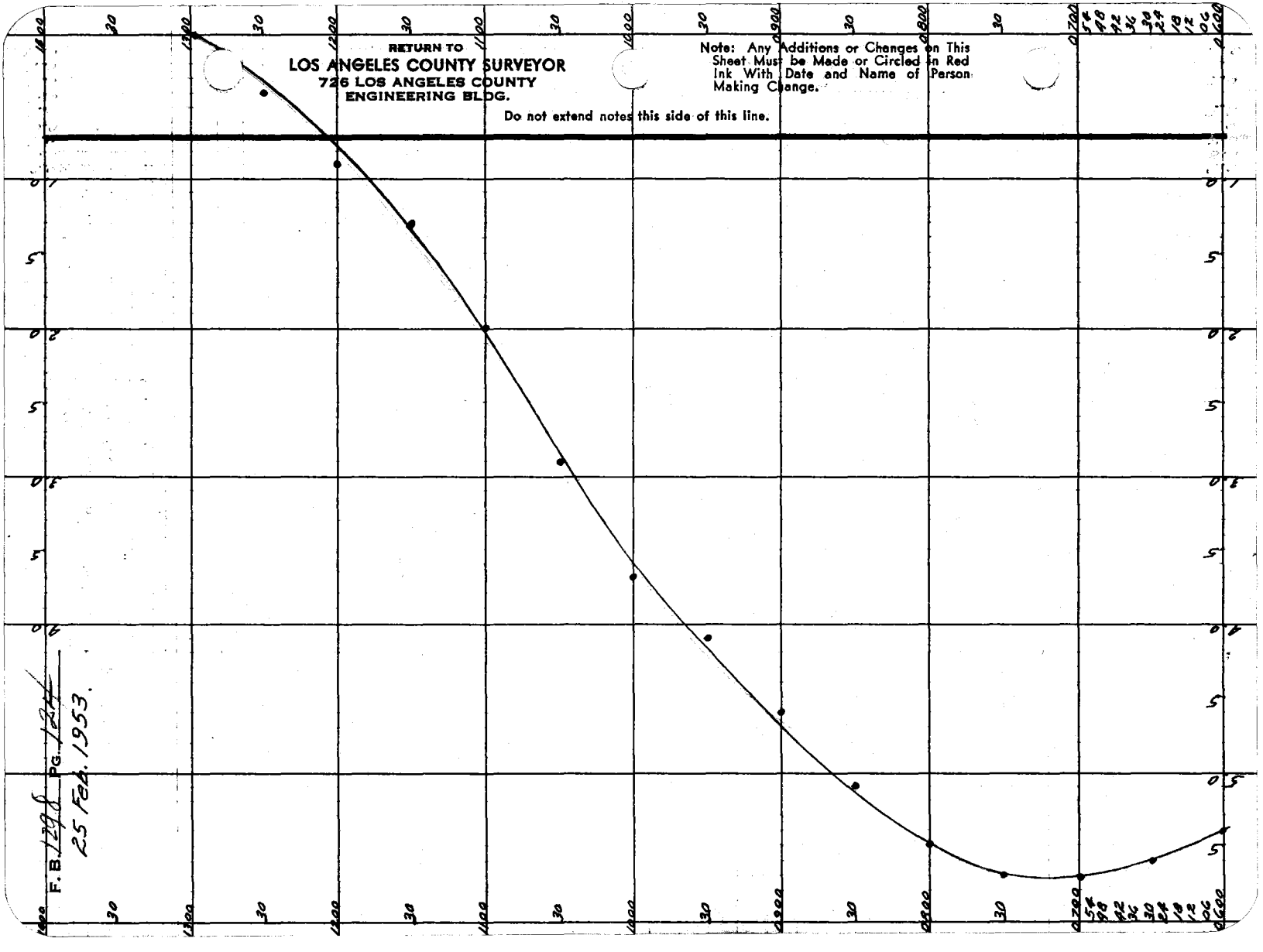

F. B. 129 PG. 124
25 Feb. 1953.

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 RANGE 327+00-S
327+00 S-23	1	B+W	7:36	90°35'		
	2	R		90°00'		
	3	Y		89°41'		
	4	B+W	7:50	90°00'		
	5	R		90°00'		
	6	Y		90°00'		
	7	B+W	8:01	90°36'		
	8	R		[illegible]		
	9	Y	[illegible]	90°00'		
	10	B+W	8:15	89°38'		
	11	R	[illegible]	90°11'		
	12	Y	[illegible]	90°00'		
	13	B+W	8:27	89°40'		
	14	R	[illegible]	90°00'		
	15	Y		90°00'		
	16	B+W	8:34	90°00'		
	17	R		90°00'		
	18	Y		90°00'		
	19	B+W	8:36	90°00'		
	20	R		90°08'		

RANGE 327+00-S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1299 Pg. 1
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-25-53
No. ____ Date ____ Date ____ Map No. ____ Engineer ____ 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	
		21	Y		90° 6'		
		22	B+W	8:46	90° 6'		
		23	R		90° 3'		
		24	Y		90° [illegible]		
		25	B+W	8:51	90° [illegible]		
		26	R		90° [illegible]		
		27	Y		90° [illegible]		
		28	B+W	8:55	90° 0'		
		29	R		90° [illegible]		
		30	Y		90° [illegible]		
		31	B+W	8:58	90° [illegible]		
		32	R		90° [illegible]		

RANGE 327+00 S

2-25-53

F. B. 1298 Pg. 126 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Chkd. Checked
Indexed A. Johnson 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
333+00	S-22	1	B&W	7 37	76° 15'	✓	Cut in 327+00
		2	R	7 47	76° 30'	✓	25
		3	Y	7 43	76° 51'	✓	
		4	B&W	7 50	76° 22'	✓	
		5	R	7 52	76° 16'	✓	
		6	Y	7 54	76° 05'	✓	
		7	B&W	8 02	74° 57'	✓	
		8	R	8 12	74° 44'	✓	
		9	Y	8 13	74° 40'	✓	
		10	B&W	8 16	73° 45'	✓	
		11	R	8 18	72° 47'	✓	
		12	Y	8 24	70° 45'	✓	
		13	B&W	8 28	68° 41'	✓	
		14	R	8 31	65° 57'	✓	
		15	Y	8 34	64° 15'	✓	
		16	B&W	8 35	62° 55'	✓	
		17	R	8 38	60° 34'	✓	
		18	Y	8 40	58° 42'	✓	
		19	B&W	8 41	56° 27'	✓	
		20	R	8 44	53° 57'	✓	

Cut in 327+00 S

Profile Notes Red ____ Plotted ____ Job No. 8Y12 Division No. ✓ F. B. 1298 Pg. 127
No. ____ Date ____ Date ____ Survey of BEACH ERASION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 2-25-53
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson 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
[illegible]	[illegible]	21	Y	[illegible]	[illegible]	✓	Cut In 327+00
		22	B&W	8 [illegible]	[illegible]	✓	
		23	R	8 [illegible]	[illegible]	✓	
		24	Y	8 [illegible]	[illegible]	✓	
		25	B&W	8 52	[illegible]	✓	
		26	R	8 53	[illegible]	✓	
		27	Y	8 [illegible]	[illegible]	✓	
		28	B&W	8 56	[illegible] 49	✓	
		29	R	8 57	[illegible] 13	✓	
		30	Y	8 [illegible]	[illegible]	✓	
		31	B&W	8 59	27 04	✓	
		32	R	9 00	[illegible] 57	✓	

Cut In 327+00 S

2-25-57

F. B. 1298 Pg. 128 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by F.H.B. Notes Chkd. Checked
Indexed L. C. Johnson Date Date Date No.

76L298 307 4-50

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327+00 S Boat

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom Tide		Adj. Depth	Distance	Remarks
1	B&W	7 37	78 0 76 4	76.9	5.6	71.3	2580	
2	R		74 1 72 7	73.2		67.6	2550 ✓	
3	Y		71 4 69 6	70.2		64.6	2548 ✓	
4	B&W	7 51	67 7 65 5	66.2	5.5	60.7	2500 ✓	
5	R		64 8 62 6	63.3		57.8	2474 ✓	
6	Y		61 0 59 3	59.9		54.4	2440 ✓	
7	B&W	8 02	56 9 55 4	55.9	5.5	50.4	2335 ✓	
8	R		52 7 51 0	51.6	5.4	46.2	2212 ✓	
9	Y		51 7 50 0	50.6	5.4	45.2 ~~55.2~~	2202 ✓	
10	B&W	8 16	50 0 49 0	49.3	5.3	44.0	2035 ✓	
11	R		49 7 48 0	48.6	5.3	43.3	1961 ✓	
12	Y		48 4 46 4	47.1	5.3	41.8	1728 ✓	
13	B&W	8 28	46 3 44 9	45.4	5.1	40.3	1520 ✓	
14	R		44 5 43 2	43.6	5.1	38.5	1349 ✓	
15	Y		42 3 41 0	41.4	5.0	36.4	1250 ✓	
16	B&W	8 35	39 2 38 3	38.6	5.0	33.6	1177 ✓	
17	R		36 7 35 3	35.8	5.0	30.8	1068 ✓	
18	Y		34 4 32 7	33.3	4.9	28.4	992 ✓	
19	B&W	8 42	32 0 30 0	30.7	4.9	25.8	910 ✓	
20	R		28 2 27 5	27.7	4.9	22.8	829 ✓	

Boat 327+00 S

Profile Notes Red. RCWT. Plotted _____ Job No. 8412 Division No. ✓ F. B. 1298 Pg. 129
No. _____ Date 4-16-53 Date _____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked _____ Survey by FHB Notes _____ Date 2-25-53
No. _____ Date 4-23-53 Date _____ Map No. _____ Indexed _____ Date _____

76L298 307 4-50

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327+00S Boat

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
21	Y		263 250	25.4	4.9	20.5	763	
22	B&W	847	243 230	23.4	4.9	18.5	699	
23	R		217 203	20.8	4.9	15.9	632	
24	Y		194 189	19.1	4.8	14.3	568	
25	B&W	852	174 163	16.7	4.8	11.9	512	
26	R		161 149	15.3		10.5	470	
27	Y		142 135	13.7		8.9	416	
28	B&W	856	131 116	12.1	4.8	7.3	390	
29	R		115 105	10.8	4.8	6.0 ~~5.0~~	375	
30	Y		97 87	9.0	4.7	4.3	337	
31	B&W	859	82 70	7.4	4.7	2.7	312	
32	R		80 70	7.3	4.7	2.6	292	

Boat 327+00S

2-25-53

F. B. 1298 Pg. 130 Job No. 841 Division No. V Notes Red. RWW Plotted Profile
Survey of BEACH EROSION STUDIES Date 4-16-53 Date No.
Survey by FHB Notes Notes Chkd. KRK Checked X-Sec.
Indexed A. O. Johnson Date Date 4-23-53 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 RANGE 325+50-S
325+50	S-23	1	B+W	11:09	90°06'	✓	25
		2	R		89°55'	✓	
		3	Y		90°12'	✓	
		4	B+W	11:14	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	11:18	90°13'	✓	
		8	R		89°24'	✓	
		9	Y		89°48'	✓	
		10	B+W	11:38	90°46'	✓	
		11	R		90°00'	✓	
		12	Y		90°00'	✓	
		13	B+W	11:47	90°23'	✓	
		14	R		90°00'	✓	
		15	Y		89°35'	✓	
		16	B+W	11:50	90°45'	✓	
		17	R		89°39'	✓	
		18	Y		89°23'	✓	
		19	B+W	11:54	90°00'	✓	
		20	R		90°51'	✓	

RANGE 325+50 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1298 Pg. 131
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by EHP Notes ____ Date 2-25-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1298 Pg. 132 Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by Notes Notes Chkd. Checked X-Sec.

Indexed [redacted] O. Johnson Date Date Date No.

RANGE 325+50 S

STATION	B. S.	H. I.	F. S.	ELEV.
	21	Y		
	22	B+W	11.57	89.50
	23	R		90.[illegible]
	24	Y		89.26
	25	B+W	11.59	90.24
	26	R		90.[illegible]

2-25-53

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75[illegible] 307 4-50

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
333+00 / 5-22	1	B&W	11 17	73° 23'	✓	63231	Cut in 325+50
	2	R	11 18	73° 26'	✓	63261	25
	3	Y	11 20	72° 50'	✓	62501	
	4	B&W	11 21	72° 38'	✓	62381	
	5	R	11 23	72° 14'	✓	62141	
	6	Y	11 25	72° 00'	✓	62001	
	7	B&W	11 26	71° 13'	✓	61131	
	8	R	11 30	70° 22'	✓	60221	
	9	Y	11 32	69° 09'	✓	5909	note 10° jump
	10	B&W	11 46	59° 14'	✓✓	6914	see red figures
	11	R	11 51	58° 16'	✓✓	6816	incorporating
	12	Y	11 53	56° 16'	✓✓	6616	+10
	13	B&W	11 55	54° 25'	✓✓	6425	
	14	R	11 56	53° 07'	✓✓	6307	
	15	Y	11 57	51° 34'	✓✓	6134	
	16	B&W	11 58	48° 39'	✓✓	5839	
	17	R	12 00	46° 10'	✓✓	5610	
	18	Y	12 01	44° 14'	✓✓	5414	
	19	B&W	12 02	41° 16'	✓✓	5116	
	20	R	12 03	38° 46'	✓✓	4846	

Cut in 325+50

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V F. B. 1298 Pg. 133
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of BEACH EROSION STUDIES
Survey by FHB Notes ____ Date 2-25-53
Map No. ____ Date ____ 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	
333+00	S-22	21	Y	12 04	35° 13'	✓✓ 45°13'	Cut in	325+50
		22	B&W	12 05	33° 29'	✓✓ 43°29'		
		23	R	12 06	31° 13'	✓✓ 41°13'		
		24	Y	12 06	27° 57'	✓✓ 37°57'		
		25	B&W	12 07	25° 36'	✓✓ 35°36'		
		26	R	12 08	22° 46'	✓✓ 32°46'		

CUT IN 325+50 S

2-25-53

F. B. 1298 Pg. 134 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked
Indexed R. O. Johnson 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.			
							3254505 Boat

#	Color	Time	Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
			77.8					
1	B&W	11.19	75.5	76.3	1.6	74.7	2510 ✓	1502 ✓
			71.2					
2	R		69.7	70.2	1.6	68.6	2520 ✓	1498 ✓
			66.7					
3	Y		64.1	65.0	1.5	63.5	2450 ✓	1476 ✓
			61.4					
4	B&W	11.23	60.3	60.7	1.5	59.2	2390 ✓	1450 ✓
			57.1					
5	R		56.3	56.6	1.5	55.1	2350 ✓	1428 ✓
			55.2					
6	Y		54.0	54.4	1.4	53.0	2310 ✓	1412 ✓
			54.2					
7	B&W	11.29	53.2	53.5	1.3	52.2	2245 ✓	1380 ✓
			50.5					
8	R		49.1	49.6	1.2	48.4	2055 ✓	1294 ✓
			50.7					
9	Y		48.7	49.4	1.1	48.3	1960 ✓	1254 ✓
			46.3					
10	B&W	11.48	44.5	45.1	1.0	44.1	1290 ✓	2050 ✓
			42.0					
11	R		41.0	41.3	1.0	40.3	1215 ✓	1885 ✓
			37.0					
12	Y		36.8	36.9	0.9	36.0	1125 ✓	1700 ✓
			35.2					
13	B&W	11.58	34.1	34.5	0.8	33.7	1060 ✓	1590 ✓
			33.0					
14	R		32.0	32.3	0.8	31.5	1003 ✓	1483 ✓
			30.1					
15	Y		29.3	29.6	0.7	28.9	938 ✓	~~+570~~ ✓ ?1370
			28.2					
16	B&W	12.00	26.8	27.3	0.7	26.6	865 ✓	1260 ✓
			24.1					
17	R		23.2	23.5		22.8	780 ✓	1140 ✓
			22.4					
18	Y		21.4	21.7		21.0	720 ✓	1030 ✓
			20.0					
19	B&W	12.04	19.0	19.3	0.7	18.6	660 ✓	905 ✓
			18.5					
20	R		17.9	18.1		17.4	610 ✓	858 ✓

all north of point 133

Boat 3254505

Profile No. ____ X-Sec. No. ____ Notes Red. [illegible] Plotted ____ Date 4-16-53 Date ____ Notes Chkd. [illegible] Checked ____ Date 4-24-53 Date ____

Job No. 3412 Division No. Y Survey of BEACH EROSION STUDIES Survey by FHB Notes [illegible] Date 2-25-53 Map No. ____ Checked ____ Date ____

F.B. 1290 Pg. 135

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.			325+50S Boat
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
21	Y		160 / 150	15.3	0.7	14.6	530 ✓ 760 ✓	
22	B&W	1207	141 / 131	13.4		12.7	495 ✓ 707 ✓	
23	R		127 / 116	12.0		11.3	460 ✓ 665 ✓	
24	Y		102 / 90	9.4		8.7	398 ✓ 585 ✓	
25	B&W	1209	89 / 72	7.8	0.7	7.1	363 ✓ 545 ✓	
26	R		69 / 54	5.9		5.2	315 ✓ 485 ✓	
27	Y							
28	B&W							
29	R							

Boat 325+50 S

2-25-53

F. B. 1298 Pg. 136 Job No. 8412 Division No. ✓ Notes Red. LRW Plotted Profile
Survey of BEACH EROSION STUDIES Date 4-16-53 Date No.
Survey by EHB Notes KRK Notes Chkd. KRK Checked X-Sec.
Indexed C. Johnson Date Date 4-24-53 Date No.

F.B. 1298 Pg. 137

Notes Ck'd by
Map No.
Office Work LCW.
Checked
Date

Survey of
W. O. Tape No. St'd °F
Surveyed by
Notes Date
Indexed K. C. Johnson

Time	Gage	
0600		MARCH 2, 1953
0630		
0700		
0730		
0800		Sheet changed at 8100 AM
0830		unable to get more readings
0900	5.2	
0930	5.2	
1000	5.2	
1030	5.1	
1100	4.8	
1130	4.4	
1200	4.0	
1230	3.4	
1300		

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78FS099 247 2-51

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725 LOS ANGELES COUNTY
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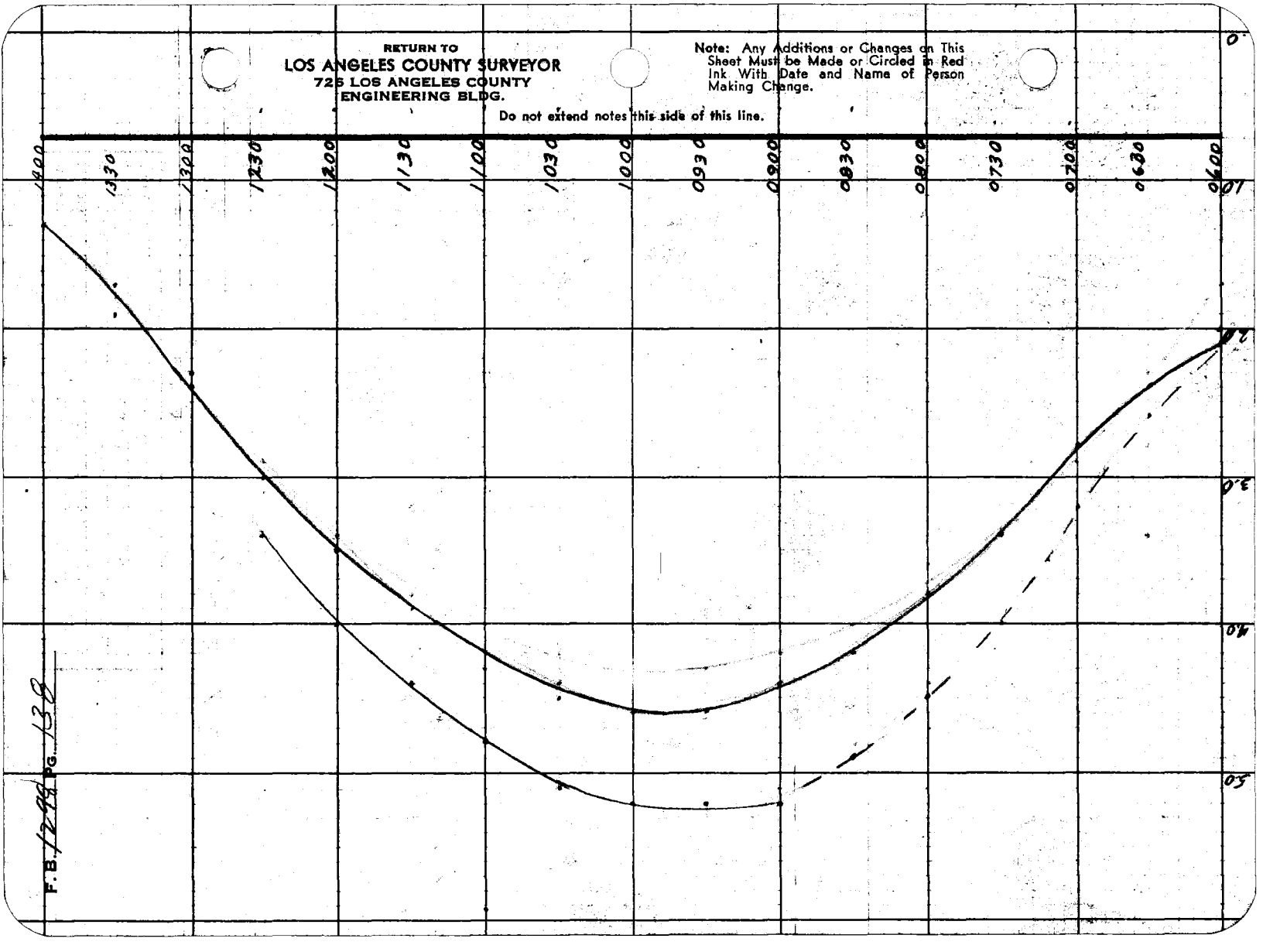

F.B. 1249 PG. 138

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.	Cut-in ∡		
					Inst. at 325+50		
					Sight on 324+00		
324+00	1 53	22 51 ✓		20 98 ✓		✓	N.&T.
7' L.			1 6	20 9 ✓		✓	Brk.
21' L.			9 0	13 5 ✓		✓	"
T.P.	3 18	~~11 69~~ 12.69	13 00	~~8 51~~ 9.51			1x2
43' L.			3 2	~~8 5~~ 9.5		✓	Brk.
70' L.			5 5	~~6 2~~ 7.2			"
T.P.	0 95	~~7 14~~ 8.14	5 50	~~6 19~~ 7.19			1x2
			5 3	~~1 8~~ 2.8	32° 51'	97 ✓	under water
			8 1	~~-1 0~~ -0.0	37° 19'	114 ✓	" "
			9 2	~~-2 1~~ -1.1	40° 44'	129 ✓	" "
			10 6	~~-3 5~~ -2.5	49° 48'	178 ✓	" "
			11 5	~~-4 4~~ -3.4	55° 48'	220 ✓	" "
			11 4	~~-4 3~~ -3.3	59° 34'	255 ✓	" "
			12 0	~~-4 9~~ -3.9	63° 41'	303 ✓	" "
			14 4	~~-7 3~~ -6.3	66° 41'	348 ✓	" "

Inshore
324+00 S.

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 Pg. 139
X-Sec. Date ____ Date ____ Survey of Beach Erosion Studies
No. ____ Notes Chkd. [illegible] Checked ____ Survey by English Notes English Date 3-2-53
Date 4-17-53 Date ____ Map No. ____ Indexed [illegible] 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.	Cut-in ∡	
					Inst. at 324+00	
					Sight on S-22	
323+00 S.	2 14	22 50		20 36	✓	N.&T.
7' L.			2 4	20 1	✓	Brk.
18' L.			9 7	12 8	✓	"
T.P.	2 38	12 60	12 28	10 22		1x2
35' L.			3 6	9 0	✓	Brk.
50 L.			5 9	6 7	✓	"
T.P.	0 96	7 61	5 95	6 65		1x2
			4 3	3 3	38°21' 83 ✓	under water
			9 2	-1 6	49°37' 120 ✓	" "
			10 6	-3 0	58°33' 170 ✓	" "
			11 0	-3 4	64°45' 230 ✓	" "
			11 0	-3 4	67°32' 260 ✓	" "
			13 5	-5 9	70°21' 310 ✓	" "

Inshore 323+00 S.

F.B. 1298 PG. 140 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. Lowe Checked
Indexed E. C. Johnson Date Date 4-17-53 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. Sight At	On	#	Color	Time	Hor. Ang.		Remarks RANGE 324+00-S
324+00	S-23	1	B+W	7:56	90°21'	✓	
		2	R		89°31'	✓	
		3	Y		90°00'	✓	
		4	B+W	8:04	90°00'	✓	
		5	R		90°00'	✓	
		6	Y		90°00'	✓	
		7	B+W	8:14	90°00'	✓	
		8	R		90°00'	✓	
		9	Y		90°00'	✓	
		10	B+W	8:21	90°00'	✓	
		11	R		90°00'	✓	
		12	Y		[illegible]	✓	
		13	B+W	[illegible]	[illegible]	✓	
		14	R		[illegible]	✓	
		15	Y		90°	✓	
		16	B+W	8:41	90°00'	✓	
		17	R		89°28'	✓	
		18	Y		91°27'	✓	
		19	B+W	8:59	91°18'	✓	
		20	R		91°42	✓	

RANGE 324+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.S. 1298 Pg. 141
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes J.S. Date 3-2-53
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 RANGE 324+00-S
324+00	S-23	21	Y		90° [illegible]	✓	
		22	B&W	9:15	90° [illegible]	✓	
		23	R	9:26	90° 00'	✓	
		24	Y		90° [illegible]	✓	
		25	B&W	9:32	90° [illegible]	✓	
		26	R		90° 00'	✓	
		27	Y		89° 17'	✓	
		28	B&W	9:37	[illegible]	✓	
		29	R		70° 00'	✓	
		30	Y		[illegible]	✓	
		31	B&W	9:40	71° 31'	✓	
		32	R		70° 00'	✓	
		33	Y		89° 25'	✓	
		34	B&W	9:45	89° 03'	✓	
		35	R		90° 00'	✓	
		36	Y		90° 00'	✓	
		37	B&W	9:49	90° 00'	✓	
		38	R		90° 00'	✓	
		39	Y		90° 00'		

RANGE 324+00 S

3-2-53

F. B. 12 98 Pg. 142 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by BLANCHARD Notes J S Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson 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
330+30 S-22	1	B&W	7 56	75° 48'	✓	Cut in 324+00
	2	R	8 00	76° 31'	✓	
	3	Y	8 02	75° 44'	✓	
	4	B&W	8 04	75° 21'	✓	
	5	R	8 06	75° 01'	✓	
	6	Y	8 09	74° 43'	✓	
	7	B&W	8 14	73° 51'	✓	
	8	R	8 17	73° 21'	✓	
	9	Y	8 19	72° 52'	✓	
	10	B&W	8 21	71° 59'	✓	
	11	R	8 23	70° 43'	✓	
	12	Y	8 28	69° 22'	✓	
	13	B&W	8 33	67° 41'	✓	
	14	R	8 35	65° 59'	✓	
	15	Y	8 39	64° 07'	✓	
	16	B&W	8 41	62° 24'	✓	
	17	R	8 49	61° 40'	✓	
	18	Y	8 57	59° 13'	✓	
	19	B&W	8 58	57° 54'	✓	
	20	R	9 00	56° 27'	✓	

Cut in 324+00 S

Profile Notes Red ____ Plotted ____ Job No. 84/2 Division No. ____ F.B. 1298 PG. 143
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by Blanchard Notes R.G. Date 3-2-53
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	
330+50	S-22	21	Y	9 02	56° 40'	Cut in	324+00
		22	B&W	9 04	52° 38'		
		23	R	9 25	54° 53'		
		24	Y	9 31	54° 06'		
		25	B&W	9 32	53° 38'		
		26	R	9 34	52° 12'		
		27	Y	9 35	51° 29'		
		28	B&W	9 37	48° 32'		
		29	R	9 38	46° 38'		
		30	Y	9 39	45° 26'		
		31	B&W	9 40	43° 34'		
		32	R	9 42	42° 27'		
		33	Y	9 44	40° 13'		
		34	B&W	9 45	36° 59'		
		35	R	9 46	35° 43'		
		36	Y	9 47	33° 08'		
		37	B&W	9 49	30° 18'		
		38	R	9 50	28° 49'		
		39	Y	9 51	25° 01'		

Cut In 324+00 S

3-2-53

F. B. 1298 Pg. 144 Job No. 5412 Division No. V Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked Date No.
Indexed R. C. Johnson Date Date

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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. ~~RANGE 324+00~~

— BOAT —

STATION #	Color	Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	BW	7:56	[illegible]	99.0	4.4	94.6 ~~95.6~~	2630	ANDERSON - LEAD
2	R	800	[illegible]	94.3	4.5	89.8	2620	STANGELAND - MOTOR
3	Y	8:02	[illegible]	87.0	4.5	82.5	2665	~~SANDOVAL - NOTES~~
4	BW	8:04	[illegible]	80.4	4.6	75.8	2495	SOFT BTTOM
5	R	8:06	[illegible]	78.6		74.0	2435	
6	Y	8:09	[illegible]	70.5		65.9	2390	
7	BW	8:14	[illegible]	67.8	4.7	63.1	2240	
8	R	8:17	[illegible]	74.2		69.5	2130	
9	Y	8:17	[illegible]	76.4	4.8	71.6	2100	
10	BW	8:21	[illegible]	74.4		69.6	2025	
11	R	8:23	[illegible]	79.3		74.5	1860	
12	Y	8:28	[illegible]	73.7	4.9	68.8	1750	
13	BW	8:33	[illegible]	65.4		60.5	1588	
14	R	8:35	[illegible]	68.1		63.2	1473	GIL - SICK MOTOR
15	Y	8 39	66.0 64.5	65.0	5.0	60.0	1350	STANGELAND NOTES
16	BW	8 41	61.5 59.3	60.2		55.2	1250	
17	R	8 49	56.6 54.3	55.1	5.1	50.0	1190	STANGELAND - LEAD
18	Y	8 57	53.3 51.8	52.3		47.2	1130	SANDOVAL - NOTES
19	BW	8 59	50.7 49.4	50.1	5.2	44.9	1048	ANDERSON - OARS
20	R	9:00	50.7 49.0	48.9		43.7	983	

~~RANGE 324+00~~
BOAT 324+00.5

Profile Notes Red Plotted Job No. 8112 Division No. V F. B. 1298 Pg. 145
No. Date 4-16-53 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd Checked Survey by FHB Notes AS Date 3-2-53
No. Date 4-24-53 Date Map No. Entered Date

76L298 307 4-50

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Do not extend notes this side of this line. ~~RANGE 324+00 S.~~

~ BOAT ~

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
RANGE		324+00		CONTD				
21	Y	9:02	44.8 / 42.8	43.5	5.2	38.3	998	
22	BW	9:05	40.9 / 39.00	39.6		34.4	955	
23	R	9:25	38.3 / 36.5	37.1		31.9	929	
24	Y	9:31	36.3 / 35.3	35.6		30.4	900	
25	BW	9:32	34.5 / 33.4	33.8		28.6	887	
26	R		32.2 / 30.0	30.7		25.5	840	
27	Y		30.1 / 28.0	28.7		23.5	806	
28	BW	9:37	27.4 / 26.0	26.5		21.3	738	
29	R		26.0 / 24.0	24.7		19.5	690	
30	Y		24.3 / 22.9	23.4 / ~~23.1~~		18.2	665	
31	BW	9:40	23.4 / 21.7	22.3		17.1	625	
32	R		21.7 / 20.0	20.6		15.4	595	
33	Y		20.2 / 18.7	19.2		14.0	545	
34	BW	9:45	18.2 / 16.8	17.3		12.1	485	
35	R		18.6 / 15.3	16.4		11.2	470	
36	Y		15.8 / 14.0	14.6		9.4	426	
37	BEW	9:49	15.6 / 13.0	13.9		8.7	383	
38	R		12.4 / 11.1	11.5		6.3	360	

~~RANGE 324+00 S~~

Boat 324+00-S.

3-2-53

F. B. 1298 Pg. 146

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

Survey of BEACH EROSION STUDIES Date 4-16-53 Date ____ No. ____

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

Indexed A. Johnson Date ____ Date 4-24-53 Date ____ No. ____

Profile No.	Notes Red. RCW. Date 4-16-53	Plotted Date	Job No. 8412 Division No. V
X-Sec. No.	Notes Chkd. KRK Date 4-24-53	Checked Date	Survey of BEACH EROSION STUDIES
			Survey by FHB Notes Date 3-2-53
			Map No. [redacted] Indexed Date

F. B. 1298 Pg. 147

Boat 324+00 S

STATION	B. S.	H. I.	F. S.	ELEV.					
#	Color	Time	Meas. Depth	Botton Tide	Adj. Depth	Distance	Remarks		BOAT
39	Y	9:51	10.0 8.4	8.9 5.2	3.7	305	IGE	324+00 (Cont'd)	

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76L298 307 4-50

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	Ht. Tide	Adj. Depth	Remarks

Profile No. Plotted Date
X-Sec. No. Checked Date
Notes Red. Date Notes Chkd. Date
Job No. Division No.
Survey of Notes Date
Survey by
Indexed

F. B. 12 98 Pg. 148

F. B. 1290 Pg. 49-A

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work LCW	Surveyed by
Checked	Notes Date
Date	Indexed

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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(over)

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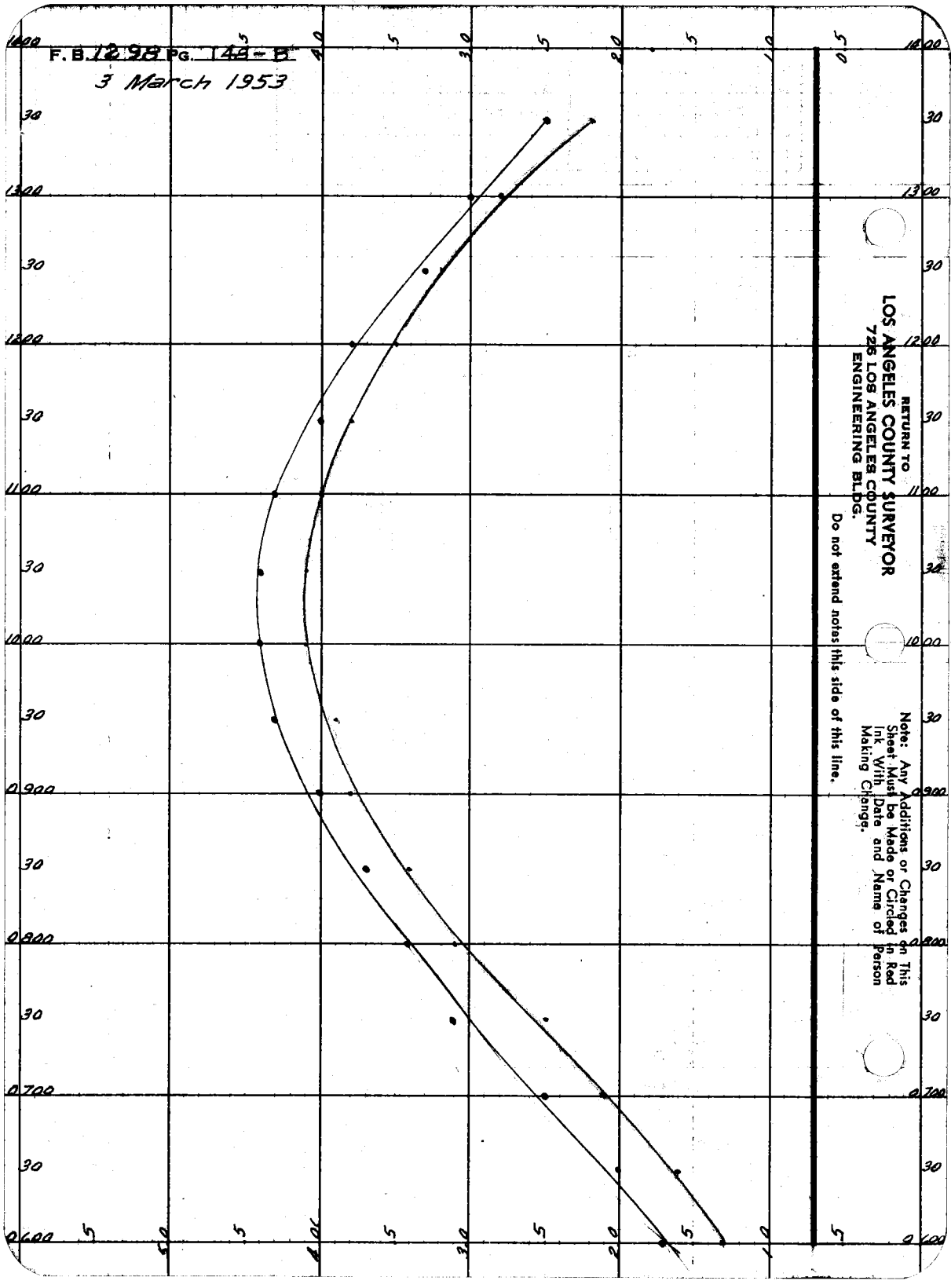
720 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 2-51


F. B. 1298 PG. 148-B
3 March 1953
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726 LOS ANGELES COUNTY
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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	B. S.	H. I.	F. S.	ELEV.		
~~Inst. Sight~~ At ~~On~~		# ~~Color~~	~~Time Hor. Ang.~~			Remarks
		TIME		GAGE		March 3 1953
		0600		17		
		0630		20		
		0700		25		
		0730		31		
		0800		34		
		0830		37		
		0900		40		
		0930		43		
		1000		44		
		1030		44		
		1100		43		
		1130		40		
		1200		38		
		1230		33		
		1300		30		
		1330		25		

Profile No.____ Notes Red____ Plotted____ Job No.____ Division No.____
Date____ Date____ Survey of____
X-Sec. No.____ Notes Chkd.____ Checked____ Survey by____ Notes____ Date____
Date____ Date____ Map No.____ ~~Adolf Johnson~~ Date____

F. B. 1288 Pg. 149

F. B. 1298 Pg. 150

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

Date ____ No. ____ X-Sec. ____

Survey of ____ Notes ____ Notes Chkd. ____ Checked ____

Survey by ____ Date ____ Date ____ Date ____ 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.

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

FORM 307 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.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 323+00-S
323+00	S-22	1	B+W	8:06	81°20'	✓	
		2	R		81°34'	✓	
		3	Y		82°15'	✓	
		4	B+W	8:14	82°15'	✓	
		5	R		82°15'	✓	
		6	Y		82°15'	✓	
		7	B+W	8:21	82°15'	✓	
		8	R		82°15'	✓	
		9	Y		81°39'	✓	
		10	B+W	8:29	80°56'	✓	
		11	R		81°21'	✓	
		12	Y		82°15'	✓	
		13	B+W	8:36	82°15'	✓	
		14	R		81°50'	✓	
		15	Y		82°15'	✓	
		16	B+W	8:42	82°15	✓	
		17	R		82°15'	✓	
		18	Y		82°15'	✓	
		19	B+W	8:46	82°15'	✓	
		20	R		82°15'	✓	

RANGE 323+00 S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1288 Pg. 151
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd ____ Checked ____ Survey by ____ Notes JS Date 3-3-53
Date ____ Date ____ Map No. ____ Indexed C. Johnson 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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks RANGE 323+00-S
323+00	9-22	21	Y		82° [illegible]	✓	
		22	B+W	8:51	82° 15'	✓	
		23	R		82° [illegible]	✓	
		24	Y		82° [illegible]	✓	
		25	B+W	8:58	82° 15'	✓	
		26	R		82° 15'	✓	
		27	Y		82° [illegible]	✓	
		28	B+W	9:02	83° [illegible]	✓	
		29	R		82° 44'	✓	
		30	Y		81° 54'	✓	
		31	B+W	9:10	82° [illegible]	✓	
		32	R		81° [illegible]	✓	
		33	Y		82° [illegible]	✓	
		34	B+W	9:20	82° 15'	✓	
		35	R		82° [illegible]	✓	
		36	Y		82° 15'	✓	
		37	B+W	9:28	83° [illegible]	✓	
		38	R		82° [illegible]	✓	
		39	Y		82° [illegible]	✓	
		40	B+W	9:34	82° 15'	✓	

RANGE 323+00 S

F.B. 1288 Pg. 152 Job No. 8412 Division No. Notes Red Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by F H B Notes J S Notes Chkd Checked
Indexed R. A. Johnson Date 3-3-53 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		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks RANGE 323+00-S
323+00	S-22	41	R		83°21'	✓	
		42	Y		83°26'	✓	
		43	B+W	9:37	82°15'	✓	
		44	R		82°15'	✓	
		45	Y		82°15'	✓	
		46	B+W	9:39	82°15'	✓	
		47	R		82°15'	✓	
		48	Y		82°15'	✓	
		49	B+W	9:41	82°15'	✓	
		50	R		82°15'	✓	

RANGE 323+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 Pg. 153
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes JS Date 3-3-53
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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	

F. S. 1298 PG. 154

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

Survey of ____ Date ____ No. ____

Survey by ____ Notes ____ 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		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
314+65	S-21	1	B & W	8:06	72° 50'	✓	CUT IN 323+00
		2	R	8:08	72° 14'	✓	
		3	Y	8:11	73° 13'	✓	
		4	B & W	8:14	73° 33'	✓	
		5	R	8:17	73° 00'	✓	
		6	Y	8:19	72° 21'	✓	
		7	B & W	8:21	72° 03'	✓	
		8	R	8:22	70° 09'	✓	
		9	Y	8:25	68° 38'	✓	
		10	B & W	8:29	69° 46'	✓	
		11	R	8:30	68° 46'	✓	
		12	Y	8:33	68° 02'	✓	
		13	B & W	8:36	67° 34'	✓	
		14	R	8:38	65° 37'	✓	
		15	Y	8:39	64° 27'	✓	
		16	B & W	8:42	63° 45'	✓	
		17	R	8:43	62° 54'	✓	
		18	Y	8:45	61° 47'	✓	
		19	B & W	8:46	60° 43'	✓	
		20	R	8:47	59° 45'	✓	

CUT IN 323+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ✓ F. B. 1298 Pg. 155
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 3/3/53
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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
314+65	S-21	21	Y	8:49	59° 44'	✓	CUT IN 323+00
		22	B&W	8:50	58° 18'	✓	
		23	R	8:53	57° 42'	✓	
		24	Y	8:54	57° 21'	✓	
		25	B&W	8:58	56° 49'	✓	
		26	R	8:59	55° 02'	✓	
		27	Y	9:01	53° 42'	✓	
		28	B&W	9:02	52° 42'	✓	
		29	R	9:03	50° 15'	✓	
		30	Y	9:08	51° 01'	✓	
		31	B&W	9:10	49° [illegible]	✓	
		32	R	9:14	49° 07'	✓	
		33	Y	9:18	48° 25'	✓	
		34	B&W	9:20	47° 27'	✓	
		35	R	9:22	45° 23'	✓	
		36	Y	9:23	43° 48'	✓	
		37	B&W	9:27	42° 14'	✓	
		38	R	9:30	40° 01'	✓	
		39	Y	9:31	38° 52'	✓	
		40	B&W	9:34	36° 01'	✓	

CUT IN 323+00 S

3-3-53

F. B. 1298 Pg. 156 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FH B Notes Notes Chkd. Checked X-Sec.
Index [illegible] 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	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	

Profile Notes Red____ Plotted____ Job No.____ Division No.____ F. B. 1298 Pg. 159
No.____ Date____ Date____ Survey of____
X-Sec. Notes Chkd.____ Checked____ Survey by____ Notes____ Date____
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.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
314+65	S-21	41	R	9:35	34°45'	✓	CUT IN 323+00
		42	Y	9:36	33°18'	✓	
		43	B & W	9:37	31°39'	✓	
		44	R	9:38	30°29'	✓	
		45	Y	9:38	29°31'	✓	
		46	B & W	9:39	28°43'	✓	
		47	R	9:40	26°08'	✓	
		48	Y	9:41	24°51'	✓	
		49	B & W	9:41	23°29'	✓	
		50	R	9:42	22°17'	✓	
		51	Y				

Cut In 323+00 S

3-3-53

F. B. 1298 Pg. 158 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes Notes Chkd. Checked
Indexed [illegible] 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. BOAT 323+00 S

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
1	BW	8 06	1210 1190	119.7	3.5	116.2	2860	ELAND — LEAD
2	R		1326 1293	130.4	3.5	126.9	2720	MEN — RECORD
3	Y		1126 1090	110.2	3.6	106.6	2780	SON — MOTOR
4	BW	8 13	1120 1099	110.6	3.6	107.0	2850	went out to get deeper here
5	R		1105 1090	109.5	3.6	105.9	2740	
6	Y		1019 987	99.8	3.7	96.1	2620	
7	BW	8 21	989 973	97.8	3.7	94.1	2570	
8	R		910 890	89.7	3.7	86.0	2295	
9	Y		1125 1150	115.8	3.8	112.0	2220	
10	BW	8 29	858 839	84.5	3.8	80.7	2415	not to find break
11	R		930 900	91.0	3.8	87.25 ~~88.2~~	2212	
12	Y		1132 1112	111.9	3.9	108.0	2045	
13	BW	8 36	1126 1109	111.5	3.9	107.6	1995	
14	R		1129 1098	110.8		106.9	1820	
15	Y		1122 1100	110.7		106.8	1713	
16	BW	8 43	1001 989	99.3	3.9	95.4	1660	
17	R		912 880	89.1	3.9	85.2	1595	
18	Y		814 801	80.5	4.0	76.5	1510	
19	BW	8 46	827 809	81.5	4.0	77.5	1495	
20	R		858 830	83.9		79.9	1385	

Stangeland
Krammen
Anderson

Boat 323+00 S

Profile Notes Red. RCW Plotted ____ Job No. 8412 Division No. ____
No. ____ Date 4-16-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. K.R.K. Checked ____ Survey by Blanchard Notes KRK Date 3-3-53
No. ____ Date 4-27-53 Date ____ Map No. ____ Date ____

F.B. 1296 Pg. 159

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. 12 98 Pg. 160 Job No. 2412 Division No. V Notes Red. LCW Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES Date 4-16-53 No. ____ X-Sec. ____
Survey by E.H.B. Notes KRK Chkd. KRK Checked ____ No. ____
Indexed C. JOHNSON Date ____ Date 4-27-53 Date ____

STATION #	Color	B.S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
21	Y		84 5	83.5	4.0	79.5	1390v	
22	BW	8 51	81 0	81.4	4.0	77.4	1305v	
23	R		75 0	75.7	4.0	71.7	1270v	
24	Y		73 0	73.6	4.1	69.5	1233v	
25	BW	8 57	68 0	69.0	4.1	64.9	1223v	
26	R		60 8	61.2		57.1	1143v	
27	Y		62 7	62.7		58.6	1081v	
28	BW	9 04	66 2	66.8	4.1	62.7	1010v	
29	Y		56 0	56.4	4.1	52.5	930v	
30			59 5	59.9	4.2	55.7	985v	
31	BW	9 12	54 8	51.6	4.2	47.4	930v	TRCON - LEAP
32	R		46 1	46.6	4.2	42.4	911v	ELAND - CARS
33	Y		41 0	41.4	4.2	37.2	885v	
34	BW	9 20	36 8	37.3	4.3	33.0	850v	
35	R		30 7	31.1		26.8	792v	
36	Y		26 8	27.0		22.7	744v	
37	BW	9 27	21 6	25.1	4.3	20.8	690v	
38	R		22 4	22.9		18.6	643v	
39	Y		20 5	21.1		16.8	625v	
40	BW	9 34	18 8	18.9	4.3	14.6	545v	

Anderson
Stangeland
3-3-53

Built 2234.0

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. BOAT 323+00 S (continued)

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
41	R		18 7 / 17 6	18.0	4.3	13.7 / ~~14.7~~	513 ✓	
42	Y		12 7 / 15 5	16.2	4.3	11.9	480 ✓	
43	BW	9 37	16 5 / 14 5	15.2	4.3	10.9	455 ✓	
44	R		16 0 / 14 5	15.0		10.7	430 ✓	
45	Y		15 0 / 13 2	13.8		9.5	410 ✓	
46	BW	9 39	15 0 / 12 2	13.1	4.3	8.8	398 ✓	
47	R		12 5 / 11 0	11.5	4.3	7.2	350 ✓	
48	Y		11 0 / 9 5	10.0	4.4	5.6	325 ✓	
49	BW	9 42	10 3 / 8 1	8.8	4.4	4.4	300 ✓	
50	R		8 5 / 6 8	7.4		3.0	280 ✓	
51	Y		9 0 / 6 0	7.0		2.6		didn't get on other
	BW							
	R							
	Y							

Boat 323+00 S

Profile Notes Red. Lewis Plotted ____ Job No. 8412 Division No. ____ F. S. 1298 Pg. 161
No. ____ Date 4-16-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked ____ Survey by BLANCHARD Notes KRK Date 3-3-53
No. ____ Date 4-24-53 Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1298 Pg. 162 Job No. Division No. Notes Red. Plotted Profile

Survey of Date Date No.

Survey by C. Johnson Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

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

Do not extend notes this side of this line.

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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76L298 307 4-50

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.			
					Cut-in X		
					Inst. at 5.22		
					Sight on 322+00		
322+00 S.	1 82	22 09		20 27		✓	N.&T.
14' L.			1 7	20 4		✓	Brk.
29' L.			11 1	11 0		✓	"
T.P.	2 65	12 73	12 01	10 08			1x2
62' L.			5 8	6 9		✓	Brk.
T.P.	1 32	7 59	6 46	6 27			1x2
			4 3	3 3	37° 52'	92	under water
			8 7	-1 1	49° 38'	130	" "
			9 9	-2 3	61° 18'	180	" "
			10 0	-2 4	69° 01'	230	" "
			11 2	-3 6	74° 23'	285	" "
			13 5	-5 9	77° 55'	330	" "

Inshore
322+00 S.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 Pg. 163
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. Bowe Checked ____ Survey by English Notes English Date 3-3-53
Date 4-17-53 Date ____ Map No. ____ Indexed ____ 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.	Cut-in ∡		
					Inst. at 322+00		
					Sight on 320+50		
320+50 S.	2 19	21 85		19 66			N.&T.
15' L.			1 5	20 3			Brk.
32' L.			9 2	12 6			"
T.P.	2 36	11 55	12 66	9 19			1x2
48' L.			2 4	9 2			Brk.
79' L.			5 8	5 8			"
T.P.	0 96	6 76	5 75	5 80			1x2
			4 5	2 3	40° 00'	110	under water
			7 6	-0 8	47° 32'	138	" "
			9 3	-2 5	59° 11'	190	" "
			9 6	-2 8	68° 40'	254	" "
			10 9	-4 1	73° 02'	300	" "
			13 3	-6 5	76° 19'	340	" "

Inshore 320+50 S.

F.B. 1298 PG. 164 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd Lowe Checked No.
Indexed C. Johnson Date Date 4-17-53 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.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	RANGE 322+00-S
322+00	S-22	1	B+W	10:26	80° 00'		
		2	R		80° 00'		
		3	Y		80° 00'		
		4	B+W	10:31	80° 00'		
		5	R		80° 00'		
		6	Y		80° 00'		
		7	B+W	10:38	80° 00'		
		8	R		80° 24'		
		9	Y		80° 41'		
		10	B+W	10:44	80° 22'		
		11	R		80° 00'		
		12	Y		80° 00'		
		13	B+W	10:51	80° 00'		
		14	R		80° 22'		
		15	Y		79° 34'		
		16	B+W	10:58	78° 46'		
		17	R		80° 00'		
		18	Y		80° 00'		
		19	B+W	11 07	80° 28'		
		20	R		80° 50'		

RANGE 322+00 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 168 Pg. 165
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes JS Date 2-3-53
No. ____ Date ____ Date ____ 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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
322+00	S-22	21	Y		80° 28'	RANGE 322+00-S
		22	B+W	11:18	80° [illegible]	
		23	R		80° 00'	
		24	Y		78° [illegible]	
		25	B+W	11:31	78° [illegible]	
		26	R		80° [illegible]	
		27	Y		78° [illegible]	
		28	B+W	11:40	80° [illegible]	
		29	R		80° 00'	
		30	Y		80° 00'	
		31	B+W	11:50	80° 00'	
		32	R		80° 00'	
		33	Y		80° 00'	
		34	B+W	11:55	80° [illegible]	
		35	R		81° 43'	
		36	Y		89° 14'	
		37	B+W	11:59	81° 23'	
		38	R		78° 34'	
		39	Y		80° 00'	
		40	B+W	12:03	80° 00'	

RANGE 322+00 S

3-3-53

F.B. 1298 Pg. 166
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by BLANCHARD Notes JS Notes Chkd. Checked
Indexed [illegible] Date 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 ICK, 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 RANGE 322+00-S
322+00 S-22	41	R		80°00'		
	42	Y		80°00'		
	43	B+W	12.06	80°00'		

RANGE 322+00 S

Profile Notes Red. ____ Plotted ____ Job No. 6412 Division No. V F. B. 1298 Pg. 167
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 3-3-53
No. ____ Date ____ Date ____ Map No. ____ Checked ____ 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.

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

F. B. 12-98 Pg. 168

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

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

Survey by ____ Notes ____ Notes Chkd. ____ Checked ____

Indexed ____ Date ____ 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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
314+65	S-21	1	B & W	10:25	73° 28'	✓	CUT IN 322+00
		2	R	10:27	73° 16'	✓	
		3	Y	10:28	72° 58'	✓	
		4	B & W	10:30	72° 56'	✓	
		5	R	10:33	72° 31'	✓	
		6	Y	10:35	71° 54'	✓	
		7	B & W	10:37	70° 50'	✓	
		8	R	10:39	70° 23'	✓	
		9	Y	10:41	69° 20'	✓	
		10	B & W	10:44	70° 01'	✓	
		11	R	10:47	69° 32'	✓	
		12	Y	10:49	69° 26'	✓	
		13	B & W	10:51	68° 58'	✓	
		14	R	10:53	69° 01'	✓	
		15	Y	10:55	67° 45'	✓	
		16	B & W	10:57	66° 29'	✓	
		17	R	11:01	66° 34'	✓	
		18	Y	11:04	66° 20'	✓	
		19	B & W	11:06	65° 19'	✓	
		20	R	11:12	64° 12'	✓	

CUT IN 322+00 S

Profile Notes Red. ____ Plotted ____ Job No. 24/12 Division No. ✓ F. B. 1298 Pg. 169
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 3/3/53
No. ____ Date ____ Date ____ Map No. ____ Inspected ____ 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. 1298 Pg. 171 | Job No. 84/2 | Division No. ✓ | Notes Red. | Plotted | Profile
Survey of BEACH EROSION STUDIES | Date | Date | No.
Survey by EHB | Notes | Notes Chkd. | Checked | X-Sec.
Indexed | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
314+65 / 5-21	21	Y	11 14	63° 13'	✓	CUT IN 322+00
	22	B & W	11 17	61° 07'	✓	
	23	R	11 21	58° 51'	✓	
	24	Y	11 27	56° 47'	✓	
	25	B & W	11 30	53° 13'	✓	
	26	R	11 33	50° 33'	✓	
	27	Y	11 38	49° 57'	✓	
	28	B & W	11 40	49° 47'	✓	
	29	R	11 48	48° 47'	✓	
	30	Y	11 49	48° 09'	✓	
	31	B & W	11 50	47° 41'	✓	
	32	R	11 51	45° 42'	✓	
	33	Y	11 53	43° 42'	✓	
	34	B & W	11 54	41° 59'	✓	
	35	R	11 56	41° 01'	✓	
	36	Y	11 58	38° 49'	✓	
	37	B & W	11 59	37° 38'	✓	
	38	R	12 00	34° 49'	✓	
	39	Y	12 02	34° 34'	✓	
	40	B & W	12 03	31° 15'	✓	

Cut in 322+00

3-3-53

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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
314+65 S-21	41	R	12 04	29° 45'	CUT IN 322+00	
	42	Y	12 05	27° 48		
	43	B & W	12 06	26° 55'		

CUT IN 322+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F.B. 1298 Pg. 171
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 3/3/53
No. ____ Date ____ Date ____ Map No. ____ Indexed E. C. Johnson Date ____

F. B. 1298 PG. 172 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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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. Sight At On	#	Color	Time	Hor. Ang.		Remarks

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. BOAT 322+00

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	BW	1026	1338 1328	133.1	4.4	128.7	2908 ✓	LAND - LEAD
2	R		1215 1201	120.6		116.2	2845 ✓	EN - RECORD
3	Y		1128 1111	111.7		107.3	2790 ✓	SON - MOTOR
4	BW	1031	1095 1072	108.0	4.4	103.6	2776 ✓	
5	R		1011 998	100.2		95.8 ~~96.8~~	2685 ✓	
6	Y		96[illegible] 951	95.7		91.3	2583 ✓	Stangeland Kvammen Anderson
7	BW	1038	958 940	94.6	4.4	90.2	2400 ✓	
8	R		974 955	96.1		91.7	2270 ✓	
9	Y		1297 1280	128.6		124.2	2170 ✓	
10	BW	1045	1070 1046	105.4	4.4	101.0	2240 ✓	
11	R		1108 1095	109.9		105.5	2198 ✓	
12	Y		1255 1238	124.4		120.0	2183 ✓	
13	BW	1052	1277 1265	126.9	4.3	122.6	2125 ✓	
14	R		2235 1222	122.6		118.3	2110 ✓	
15	Y		1168 1155	115.9		111.6	2015 ✓	
16	BW	1100	1130 1105	111.3	4.3	107.0	1960 ✓	
17	K		1195 1188	119.0		114.7	1845 ✓	
18	Y		1245 1230	123.5		119.2	1823 ✓	
19	BW	1107	1130 1108	111.5	4.3	107.2	1693 ✓	
20	K		970 951	95.7	4.3	91.4	1565 ✓	

Boat 322+00 S

Profile Notes Red [illegible] Plotted _____ Job No. 8412 Division No. _____ F.B. 1298 Pg. 173
No. _____ Date 4-16-53 Date _____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd [illegible] Checked _____ Survey by BLANCHARD Notes KRK Date 3-3-53
No. _____ Date 4-27-53 Date _____ Map No. _____ 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.

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
21	Y	T	900 885	89.0	4.2	84.8 ~~85.8~~	1520	
22	BW	11 20	902 889	89.3	4.2	85.1	1373	
23	R		815 800	80.5	4.2	76.3	1268	
24	Y		730 713	71.9	4.1	67.8	1205	
25	BW	11 31	705 690	69.5	4.1	65.4	1048	
26	R		634	64.4	4.1	60.3	898	
27	Y		548	54.7 ~~52.7~~	4.0	50.7 ~~48.7~~	905	is 54.7 (.1 wave)
28	BW	11 41	515 500	50.5	4.0	46.5	863	SON - LEAD
29	R		432 413	41.9	4.0	37.9	835	ELAND - DARS
30	Y		362 354	35.7	3.9	31.8	811	
31	BW	11 51	345 325	33.2	3.9	29.3	795	
32	R		285 270	27.5	3.9	23.6	735	
33	Y		265 250	25.5	3.8	21.7	680	
34	BW	11 55	243 230	23.4	3.8	19.6	638	
35	R		225 210	21.5		17.7	605	
36	Y		207 197	19.6		15.8	500	range 9° off
37	BW	11 59	197 179	18.5	3.8	14.7	515	
38	R		174 158	16.3		12.5	480	
39	Y		160 142	14.8		11.0 ~~10.0~~	470	
40	BW	12 04	145 129	13.4	3.7	9.7	408	

Andersson

Stangeland

3-3-52

Boat 322+00

F. S. 1298 PG. 174

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

Survey of BEACH EROSION STUDIES Date 4-16-53 Date ____ No. ____

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

Indexed C. Johnson Date ____ Date 4-29-53 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. BOAT 322+00 Continued

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
41	R		13 7 / 11 3	12.1	3.7	8.4	380	
42	Y		12 0 / 9 8	10.3 / ~~10.5~~		6.6 / ~~6.8~~	362	
43	BW	1206	10 2 / 8 7	9.2	3.7	5.5	330	
44	R		8 3 / 7 2	7.6		3.9	←	range & cut in [illegible]

Boat 322+00 S

Profile Notes Red. [illegible] Plotted ____ Job No. 8412 Division No. ____ F. S. 1298 Pg. 175
No. ____ Date 4-16-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by BLANCHARD Notes KRK Date 3-3-53
No. ____ Date 4-27-53 Date ____ Map No. ____ Rdg. Tolmoon Date ____

F. B. 1298 Pg. 116

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

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

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

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks RANGE 320+50
320+50	S-22	1	B+W	12:22	78°00'	
		2	R		78°00'	
		3	Y		78°00'	
		4	B+W	12:34	78°40'	
		5	R		78°00'	
		6	Y		78°00'	
		7	B+W	12:37	77°41'	
		8	R		77°34'	
		9	Y		78°00'	
		10	B+W	12:44	78°00'	
		11	R		78°00'	
		12	Y		78°00'	
		13	B+W	12:49	77°26'	
		14	R		78°00'	
		15	Y		78°00'	
		16	B+W	12:56	78°00'	
		17	R		78°00'	
		18	Y		77°12'	
		19	B+W	1:03	78°00'	
		20	R		76°57'	

RANGE 320+50 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1148 Pg. 177
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes JS Date 3-3-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1298 Pg. 178 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

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

Indexed [redacted] Date Date Date No.

RANGE 320+50 S

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.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	RANGE 320+50-S
320+50 S-22	21	Y		78°00'		
	22	B+W	1:09	78°00'		
	23	R		78°00'		
	24	Y		78°00'		
	25	B+W	1:11	78°00'		

3-3-53

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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
S-20	S-21	21	Y	1:08	24° 42'	Cut IN	320+50
		22	B&W	1:09	23° 04'		
		23	R	1:10	22° 22'		
		24	Y	1:11	20° 36'		
		25	B&W	1:11	19° 43'		

Cut IN 320+50 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1298 PG. 179
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 3-3-53
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.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-20	S-21	1	B&W	12 22	61° 24'	✓	CUT IN 320+50
		2	R	12 25	60° 14'	✓	
		3	Y	12 31	59° 04'	✓	
		4	B&W	12 34	58° 08'	✓	
		5	R	12 35	56° 37'	✓	
		6	Y	12 36	55° 39'	✓	
		7	B&W	12 37	54° 28'	✓	
		8	R	12 39	53° 15'	✓	
		9	Y	12 41	52° 01'	✓	
		10	B&W	12 44	50° 17'	✓	
		11	R	12 45	48° 22'	✓	
		12	Y	12 46	46° 09'	✓	
		13	B&W	12 49	44° 05'	✓	
		14	R	12 50	43° 07'	✓	
		15	Y	12 55	42° 06'	✓	
		16	B&W	12 56	41° 02'	✓	
		17	R	12 57	39° 35'	✓	
		18	Y	1 01	36° 01	✓	
		19	B&W	1 03	33° 20'	✓	
		20	R	1 04	31° 36'	✓	

Cut In 320+50 S

3-3-53

F. B. 1298 Pg. 180
Job No. 840 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes Notes Chkd. Checked X-Sec.
Indexed K. O. Johnson Date 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.

3-3-53

Do not extend notes this side of this line. BOAT 320+50

Profile No. ____ X-Sec. No. ____
Notes Red. RAWL Plotted ____ Date 2-16-53 Date ____
Notes Chkd ____ Checked ____ Date ____
Job No. 8412 Division No. ____
Survey of BEACH EROSION STUDIES
Survey by RAWLINGS Notes CRK Date 3-3-53
Field Check Date ____
F.B. 1299 Pg. 181

STATION #	Color	Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
			1400					
1	BW	1222	1380	138.7	3.5	135.2	1795 ✓	
2	R		1309					
			1285	129.3	3.5	125.8	1696 ✓	
3	Y		1187					
			1160	117.3	3.4	113.9	1610 ✓	
4	BW	1234	1130					
			1110	111.7	3.3	108.4	1495 ✓	
5	R		1060					
			1040	104.7		101.4	1438 ✓	
6	Y		993					
			980	98.4		95.1	1343 ✓	
7	BW	1238	899					
			878	88.5	3.3	85.2	1310 ✓	
8	R		758					
			740	74.6	3.3	71.3	1256 ✓	bad bottom
9	Y		860					
			840	84.7	3.2	81.5	1177 ✓	
10	BW	1244	920					
			908	91.2	3.2	88.0	1095 ✓	
11	R		870					
			850	85.7	3.1	82.6	1015 ✓	
12	Y		782					
			770	77.4	3.1	74.3	930 ✓	
13	BW	1250	697					
			657	66.1	3.0	63.1	870 ✓	
14	R		560					
			540	54.7		51.7	825 ✓	bad bottom
15	Y		408					
			433	43.8		40.8	794 ✓	
16	BW	1257	563					
			350	35.4	3.0	32.4	763 ✓	
17	R		331					
			315	32.0		29.0	718 ✓	
18	Y		258					
			247	25.1		22.1	630 ✓	
19	BW	1 07	215					
			208	21.0	3.0	18.0	558 ✓	
20	R		199					
			182	18.8		15.8	524 ✓	

BOAT F 320+50 NS

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.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
21	Y	~~16~~	179 165	17.0	2.8	14.2	373 ✓	
22	BW	1307 ~~1 07~~	153 140	14.4	2.8	11.6	343 ✓	
23	R		139 122	12.8		10.0	330 ✓	
24	Y		118 105	10.9		8.1	296 ✓	
25	BW	1311 ~~1 11~~	98 89	9.2	2.8	6.4	282 ✓	
26	R		90 78	8.2	2.8	5.4	VOID	
27	Y		77 62	6.7	2.7	4.0		
28	BW	1315 ~~1 15~~	79 55	6.3	2.7	3.6		

3-3-53

Boat 320+50 "S

F. B. 1298 Pg. 182 Job No. 8412 Division No. Notes Red. Rev. 8412 Plotted Profile
Survey of BEACH EROSION STUDIES Date 4-16-53 Date No.
Survey by BLANCHARD Notes KRK Notes Chkd. KRK Checked X-Sec.
Indexed R. O. Johnson Date Date 4-27-53 Date No.

F.B. 1298 Pg. 182A

Notes Ck'd by	Survey of
Map No.	W. O. Tape No. St'd. °F
Office Work LCW	Surveyed by
Checked	Notes Date
Date	Indexed A. C. Johnson

MARCH 4 1953

SANTA MONICA PIER

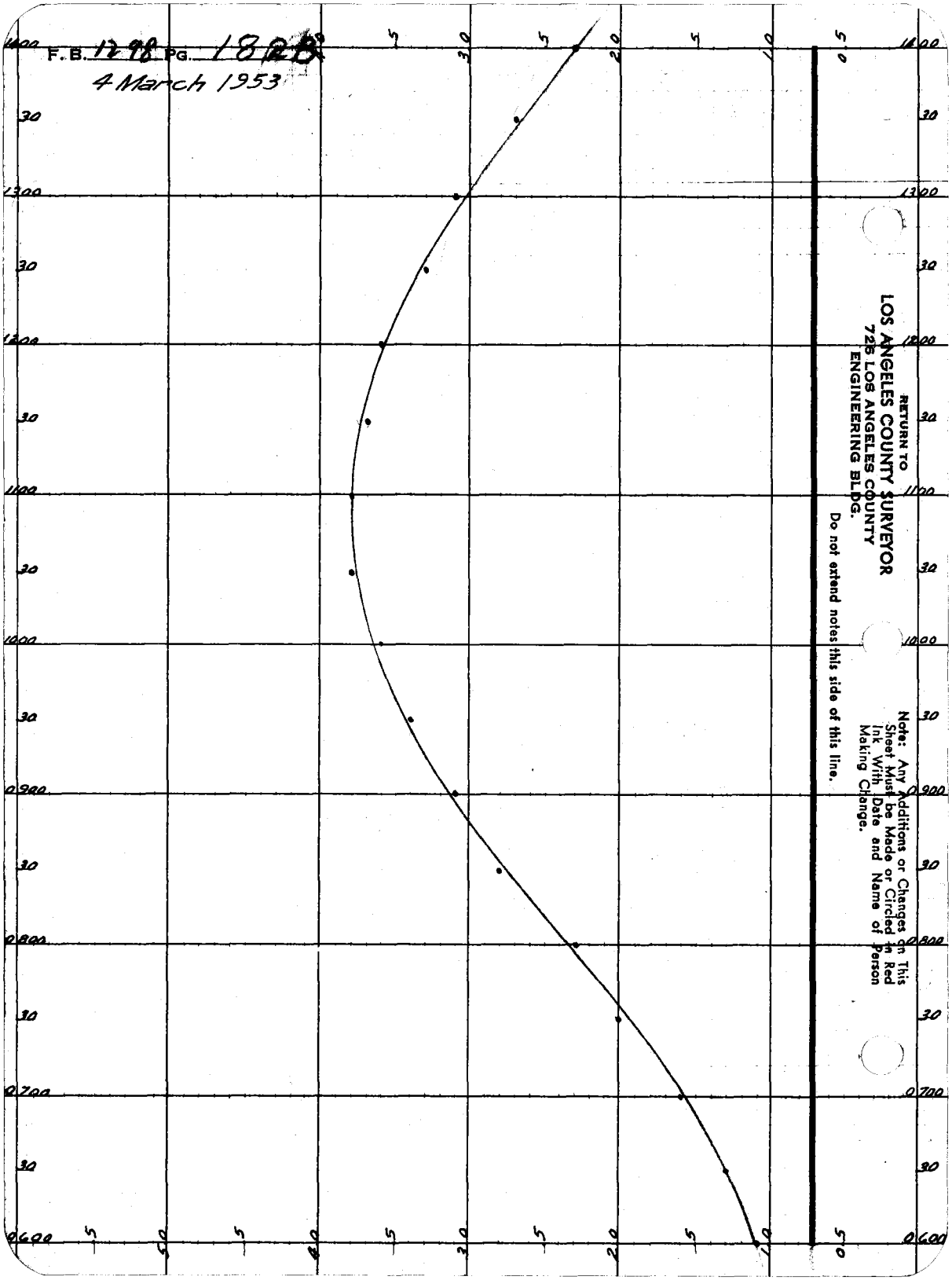
TIME	GAGE
0600	1.1
0630	1.3
0700	1.6
0730	2.0
0800	2.3
0830	2.8
0900	3.1
0930	3.4
1000	3.6
1030	3.8
1100	3.8
1130	~~3.6~~ 3.7
1200	~~3.3~~ 3.6
1230	3.3
1300	3.1
1330	2.7
1400	2.3

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.

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

76F309S 247 2-51


F.B. 1298 PG. 182B
4 March 1953
RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.
Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Profile No. _____ Notes Red _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1290 Pg. 183

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

Notes Chkd. LCW. Checked _____ Survey by English Notes English Date 3-4-53

Date 4-17-53 Date _____ Map No. _____ Indexed Johnson Date _____

Inshore
319+00 S.

STATION	B.S.	H.I.	F.S.	ELEV.	Cut-in ∡		
					Inst. at	320+50	
					Sight on	319+00	
319+00 S.	1 40	20 52		19 12			N.&T.
21' L.			2 0	18 5			Brk.
37' L.			10 3	10 2			"
T.P.	3 70	11 94	12 28	8 24			1x2
52' L.			3 6	8 3			Brk.
75' L.			6 2	5 7			"
T.P.	1 43	7 17	6 20	5 74			1x2
			5 5	1 7	39° 54'	111	under water
			8 2	-1 0	43° 33'	122	" "
			9 4	-2 2	56° 16'	180	" "
			9 5	-2 3	64° 39'	230	" "
			11 0	-3 8	70° 22'	282	" "
			13 2	-6 0	74° 41'	332	" "

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.

76L298 307 10-51

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.	Cut-in ∡		
					Inst. at 316+00		
					Sight on 317+00		
317+00 S.	2 45	20 76		18 31		✓	N.&T.
15' L.			2 3	18 5		✓	Brk.
32' L.			11 1	9 7		✓	"
T.P.	2 00	11 64	11 12	9 64		✓	1x2
56' L.			5 4	6 2		✓	Brk.
T.P.	1 42	7 70	5 36	6 28			1x2
			5 9	+1 8	40°33'	90✓	under water
			9 6	-1 9	47°45'	120✓	" "
			10 4	-2 7	55°53'	164✓	" "
			11 0	-3 3	62°53'	230✓	" "
			12 8	-5 1	65°54'	268✓	" "

Inshore
317+00 S.

F.B. 1298 PG. 184 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked
Indexed Date Date 4-17-53 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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 319+00-S
319+00	S-22	1	B+W	7:24	79°28'	✓	
		2	R		79°22'	✓	
		3	Y		79°23'	✓	
		4	B+W	7:28	79°21'	✓	
		5	R		79°16'	✓	
		6	Y		79°00'	✓	
		7	B+W	7:42	78°36'	✓	
		8	R		78°20'	✓	
		9	Y		78°06'	✓	
		10	B+W	7:48	77°50'	✓	
		11	R		77°56'	✓	
		12	Y		78°14'	✓	
		13	B+W	7:52	77°56'	✓	
		14	R		78°22'	✓	
		15	Y		79°00'	✓	
		16	B+W	8:03	78°39'	✓	
		17	R		78°29'	✓	
		18	Y		79°00'	✓	
		19	B+W	8:09	79°00'	✓	
		20	R		79°00	✓	

RANGE 319+00 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1299 Pg. 185
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes NS Date 3-4-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L898 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. 1298 PG. 186 Job No. 8412 Division No. ✓ Notes Red. ✓ Plotted ✓ Profile
Survey of BEACH EROSION STUDIES Date ✓ Date ✓ No. ✓
Survey by FHB Notes ✓ Notes Chkd. ✓ Checked ✓ X-Sec. ✓
Indexed C. Johnson Date ✓ Date ✓ No. ✓

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On 319+00 S-22	#	Color	Time	Hor. Ang.		Remarks RANGE 319+00-S
	21	~~Y~~		~~79°00'~~	VOID	
	22	B+W	8:14	79°00'	✓	
	23	R		78°21'	✓	
	24	Y		78°29'	✓	
	25	B+W	8:19	79°00'	✓	
	26	R		79°00'	✓	
	27	~~Y~~		~~79°00'~~	VOID	
	28	B+W	8:23	79°00'	✓	
	29	R		79°00'	✓	
	30	Y		79°00'	✓	
	31	B+W	8:28	79°00'	✓	
	32	R		78°21'	✓	
	33	Y		79°00'	✓	
	34	B+W	8:34	79°00'	✓	
	35	R		79°00'	✓	
	36	Y		79°00'	✓	
	37	B+W	8:38	79°00'	✓	
	38	R		79°00'	✓	
	39	Y	8:38	79°00'	✓	
	40	B+W	8:41	79°00	✓	

RANGE 319+00-S

3-4-53

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.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 319+00-S
319+00	S-22	41	R		79°00'	✓	
		42	Y	842	79°00'	✓	
		43	B+W	846	79°00'	✓	
		44	R		79°00'	✓	
		45	Y		79°00'	✓	
		46	B+W	850	79°00'	✓	
		47	R		79°00'	✓	
		48	Y		79°00'	✓	
		49	B+W	852	79°00'	✓	
		50	R		79°00'	✓	
		51	Y	853	79°00'	✓	
		52	B+W	856	79°00'	✓	
		53	R		79°00	✓	
		54	Y		79°00'	✓	

RANGE 319+00 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1498 Pg. 187
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes J.S. Date 3-4-53
No. ____ Date ____ Date ____ Map No. ____ Indexed E. C. Johnson Date ____

F.B. 1200 PG. 188 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.

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.

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

761.298 307 4-50

PLEASE RETURN TO
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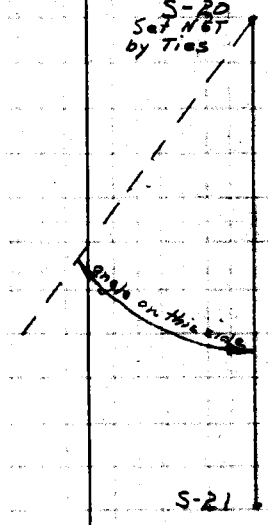
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
S-20	S-21	1	B&W	7 24	71° 57'	✓	Cut in 319+00
		2	R		71° 41'	✓	
		3	Y		71° 43'	✓	
		4	B&W	7 28	71° 48'	✓	
		5	R	7 37	72° 14'	✓	
		6	Y		71° 35'	✓	
		7	B&W	7 42	71° 15'	✓	
		8	R		70° 43'	✓	
		9	Y		70° 24'	✓	
		10	B&W	7 47	69° 56'	✓	
		11	R		69° 53'	✓	
		12	Y		69° 57'	✓	
		13	B&W	7 52	69° 24'	✓	
		14	R		69° 30'	✓	
		15	Y		69° 32'	✓	
		16	B&W	8 03	68° 55'	✓	
		17	R		68° 16'	✓	
		18	Y		68° 09'	✓	
		19	B&W	8 09	67° 45'	✓	
		20	R	8 10	67° 17'	✓	



Cut In 319+00 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V F. B. 1299 Pg. 89
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by FMB Notes RG Date 3-4-53
No. ____ Date ____ Date ____ Map No. ____ 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.

STATION		B. S.	H. I.	F. S.	ELEV.			
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks	
S-20	S-21	~~21~~	~~R~~	~~8 12~~	~~67° 01'~~	Void	Cut in	319+00
		22	B&W	8 15	65° 21'	✓		
		23	R		64° 59'	✓		
		24	Y		64° 25'	✓		
		25	B&W	8 19	63° 28'	✓		
		26	R		62° 32'	✓		
		~~27~~	~~Y~~		~~61° 57'~~	Void		
		~~28~~	~~Y~~	~~8 26~~	~~61° 28'~~	Void		
		28	B&W	8 24	60° 42'	✓		
		29	R		60° 07'	✓		
		30	Y		58° 53'	✓		
		31	B&W	8 30	58° 13'	✓		
		32	R		57° 24'	✓		
		33	Y		56° 30'	✓		
		34	B&W	8 34	55° 22'	✓		
		35	R		54° 41'	✓		
		36	Y		53° 52'	✓		
		37	B&W	8 38	52° 36'	✓		
		38	R		51° 22'	✓		
		39	Y		50° 09'	✓		

Cut In 319+00 S

3-4-53

F. B. 1298 Pg. 190 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by FHB Notes RG Notes Chkd. Checked
Indexed by C. Johnson 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		B. S.	H. I.	F. S.	ELEV.			
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks	
5-20	5-21	40	B & W	8 41	48° 47'	✓	Cut in	319+00
		41	R		47° 14'	✓		
		42	Y		45° 53'	✓		
		43	B & W	8 46	43° 36'	✓		
		44	R		41° 41'	✓		
		45	Y		40° 49'	✓		
		46	B & W	8 50	39° 34'	✓		
		47	R		38° 00'	✓		
		48	Y		36° 22'	✓		
		49	B & W	8 53	34° 49'	✓		
		50	R		31° 59'	✓		
		51	Y		29° 21'	✓		
		52	B & W	8 55	26° 53'	✓		
		53	R		24° 04'	✓		
		54	Y		22° 00'	✓		

CUT IN 319+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ✓ F. B. 1294 Pg. 791
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes RG Date 3-9-53
No. ____ Date ____ Date ____ Map No. [illegible] Date ____

F. B. 1298 Pg. 192 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.

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

Do not extend notes this side of this line.

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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.

76-298 307 4-50

78L298 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. BOAT 319+00 S

STATION #	Color	Time	H. I. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Sounding	Remarks
			1663					
1	BW	7 25	1639	164.7	1.9	162.8	2590	AND - LEAD
2	R		1588					
			1560	156.9		155.0	2550	MEN - RECORD
3	Y		~~1618~~					
			~~1600~~	~~158.9~~		~~157.0~~ VOID	~~2560~~	ON - MOTOR
4	BW	7 28	1602					
			1586	159.1	1.9	157.2	2600	bottom
5	R		2011					
			1989	200.3	2.0	198.3	2695	
6	Y		1880					
			1860	186.7	2.0	184.7	2610	
7	BW	7 42	1770					
			1762	176.5	2.1	174.4	2620	
8	R		1569					
			1558	156.2	2.1	154.1	2560	
9	Y		1434					
			1418	142.4	2.1	140.3	2540	
10	BW	7 47	1349					
			1323	133.2	2.2	131.0	2510	
11	R		1318					
			1309	131.2		129.0	2470	
12	Y		1308					
			1298	130.1		127.9	2440	
13	BW	7 53	1289					
			1251	125.4	2.2	123.2	2395	small
14	R		1362					
			1350	135.4		133.2	2350	pity fish
15	Y		1529					
			1510	151.6		149.4	2257	
16	BW	8 03	1589					
			1572	157.8	2.3	155.5	2360	
17	R		1639					
			1619	162.3	2.3	160.0	2150	
18	Y		1633					
			1625	163.1	2.4	160.8	2073	
19	BW	8 07	1726					
			1710	171.5	2.4	169.1	2025	
20	R		1583					
			1573	157.3		1[illegible]	1970	

Profile No. ____ Notes Rod. FRANK Plotted ____ Job No. 8416 Division No. ____ F.B. 128 Pg. 192
Date 2-16-53 Date ____ Survey of BEACH EROSION STUDIES
Misc. No. ____ Notes Chkd. FRK Checked ____ Survey by BLANKENSHIP Chkd. FRK Date 3-4-53
Date 4-27-53 Date ____ Map No. ____ Date ____

BOAT 319+00 S

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.

Profile No. ____ Plotted ____ Notes Red ____ Date ____ Checked ____ Date ____
X-Sec. No. ____ Notes Chkd. ____ Date ____

F. B. 1298 Pg. 104 Job No. 5446 Division No. ✓ Notes Red. Lou Plotted ____
Survey of BEACH REASON & TWIN LAKES Date 8-16-53 Checked ____
Survey by EHP Notes KRK Date 4-27-53
Indexed K. O. Johnson Date ____

STATION	B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
			1529					
21	Y		1539				← Void	
			1500					
22	BW	8 14	1490	149.3	2.5	146.8	1758	
			1490					
23	R		1479	148.3	2.5	145.8	1800	
			1387					
24	Y		1372	137.7	2.6	135.1	1717	
			1289					
25	BW	8 19	1280	128.3	2.6	125.7	1601	
			1189					
26	R		1180	118.3	2.6	115.7	1528	
27	Y		1157			Void		on this line
			1244					
28	BW	8 24	1234	123.7	2.7	121.0	1469	al appears
			1285					
29	R		1277	127.3	2.7	124.6	1351	ry uneven
			1260					
30	Y		1251	125.4	2.8	122.6	1281	
			1240					
31	BW	8 29	1233	123.5	2.8	120.7	1250	
			1211					
32	R		1200	120.4		117.6	1230	
33	Y		1164	115.8		113.0	1160	
			1155	~~115.3~~		~~112.5~~		
			1103					
34	BW	8 34	1094	109.7	2.9	106.8	1106	
			1031					
35	R		1022	102.5		99.6	1074	
			983					
36	Y		973	97.6		94.7	1040	
			914					
37	BW	8 39	900	90.5	2.9	87.6	989	
			848					
38	R		832	83.7		80.8	940	
			779					
39	Y		768	77.2		74.3	928	
			687					
40	BW	8 42	695	69.7	2.9	66.8	850	

Bat 319405

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. 3194005 BOAT

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Rotaprint	Remarks
			61 7					
41	R		60 8	61.1	2.9	58.2	801	BOTTOM
			52 0					
42	Y		51 2	51.5	3.0	48.5	762	
			48 1					
43	BW	8 46	46 2	46.8	3.0	43.8	697	
			36 0					
44	R		35 5	35.7		32.7	648	
			31 2					
45	Y		29 2	29.9		26.9	630	
			29 0					
46	BW	8 50	26 0	26.3	3.0	23.3	599	
			23 0					
47	R		22 1	22.4	3.0	19.4	562	
			20 6					
48	Y		19 4	19.8	3.1	16.7	530	
			18 8					
49	BW	8 53	17 9	18.2	3.1	15.1	499	
			15 8					
50	R		14 8	15.2		12.1	442	
			14 0					
51	Y		13 0	13.3		10.2	397	
			11 2					
52	BW	8 56	10 0	10.4	3.1	7.3	356	
			8 8					
53	R		7 2	7.7		4.6	310	
			7 1					
54	Y		6 0	6.4		3.3	279	
	BW							
	R							
	Y							

Boat 3194005

Profile Notes Red Plotted Job No. 3 Subdivision No. V R.S. 1090 PG. 192
No. Date 2-16-53 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd FRK Checked Survey by FMB Rem KR Date 2-16-53
No. Date 4-27-54 Date Map No. 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.		
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks

F. B. 1298 Pg. 196

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

Survey of ____ Date ____ No. ____

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

Indexed ____ Date ____ Date ____ No. ____

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.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks RANGE 317+00-S
317+00	S-21	1	B+W	9:21	85°52'	✓	
		2	R		85°52'	✓	
		3	Y		85°13'	✓	
		4	B+W	9:37	85°19'	✓	
		5	R		85°52'	✓	
		6	Y		85°25'	✓	
		7	B+W	9:46	85°52'	✓	
		8	R		85°52'	✓	
		9	Y		85°52'	✓	
		10	B+W	10:00	85°52'	✓	
		11	R		85°52'	✓	
		12	Y		85°52'	✓	
		13	B+W	10:13	86°24'	✓	
		14	R		85°52'	✓	
		15	Y		85°52'	✓	
		16	B+W	10:30	85°52'	✓	
		17	R		85°52'	✓	
		18	Y		86°25'	✓	
		19	B+W	10:38	86°10'	✓	
		20	R		85°52'	✓	

RANGE 317+00 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1248 Pg. 197
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes JS Date 3-4-53
No. ____ Date ____ Date ____ 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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks RANGE 317+00-S
317+00	S-21	21	Y	10 47	85° 11'	✓ 21-B+W-1045	
		22	B+W	10 50	85° 11	out	
		23	R	10 57	85° 52	✓	
		24	Y		86° 29'	✓	
		25	B+W	10:58	86° 38'	✓	
		26	R		85° 52'	✓	
		27	Y		85° 52'	✓	
		28	B+W	11:07	85° 16'	✓	
		29	R		86° 43'	✓	
		30	Y		85° 52'	✓	
		31	B+W	11:22	85° 52'	✓	
		32	R		84° 23'	✓	
		33	Y		84° 19'	✓	
		34	B+W	11:29	85° 16'	✓	
		35	R		87° 12'	✓	
		36	Y		85° 17'	✓	
		37	B+W	11:32	85° 52'	✓	
		38	R		87° 26'	✓	
		39	Y		86° 53'	✓	
		40	B+W	11:35	87° 06'	✓	

RANGE 317+00 S

3-4-53

F.B. 1298 Pg. 198 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date Date X-Sec.
Survey by BLANCHARD Notes J.S. Notes Chkd. Checked No.
Indexed J. A. Johnson Date Date 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.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks

Profile No.____ Notes Red____ Plotted____ Job No.____ Division No.____

X-Sec. No.____ Date____ Date____ Survey of____

Notes Chkd____ Date____ Checked____ Survey by____ Notes____ Date____

Map No.____ Indexed____ Date____

F.B. 12,[illegible] / 99

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.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 317+00-S
317+00	S-21	41	R		87°26'	✓	
		42	Y		86°37'	✓	
		43	B+W	11:37	85°52'	✓	
		44	R		85°52	✓	
		45	Y		85°52'	✓	
		46	B+W	11:39	85°52'	✓	

RANGE 317+00 S

3-4-57

F.B. 128 Pg. 200 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES Date Date X-Sec.
Survey by F4B Notes U.S. Notes Chkd. Checked No.
Indexed Date Date Date

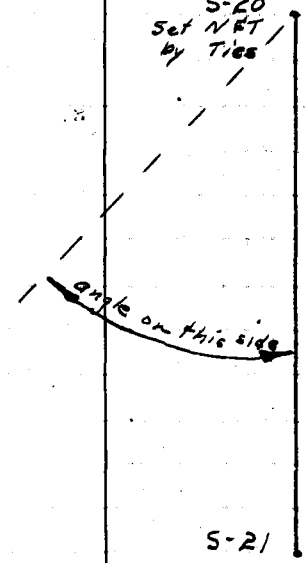
76L298 307 4-50

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.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-20	S-21	1	B&W	9 21	75° 02'	✓	Cut in 317+00
		2	R		74° 48'	✓	
		3	Y		74° 13'	✓	
		4	B&W	9 36	74° 16'	✓	
		5	R		74° 18'	✓	
		6	Y		74° 07'	✓	
		7	B&W	9 46	73° 53'	✓	
		8	R		73° 13'	✓	
		9	Y		72° 45'	✓	
		10	B&W	10 00	73° 03'	✓	
		11	R		72° 43'	✓	
		12	Y		73° 08'	✓	
		13	B&W	10 13	73° 08'	✓	
		14	R		72° 56'	✓	
		15	Y		73° 04'	✓	
		16	B&W	10 30	72° 40'	✓	
		17	R		71° 40'	✓	
		18	Y		71° 08'	✓	
		19	B&W	10 38	69° 45'	✓	
		20	R		68° 37'	✓	



CUT IN 317+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1299 Pg. 201
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes RG Date 3-4-'53
No. ____ Date ____ Date ____ Map No. ____ Date ____

76[illegible]298 307 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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
5-20	5-21	21	Y	10 45	66° 45'	✓	Cut in 317+00
		22	B&W	10 49	65° 53'	out	
		23	R		65° 33'	✓	
		24	Y		64° 30'	✓	
		25	B&W	10 58	63° 46'	✓	
		26	R		62° 11'	✓	
		27	Y		60° 58'	✓	
		28	B&W	11 06	58° 17'	✓	
		29	R		57° 35'	✓	
		30	Y		55° 04'	✓	
		31	B&W	11 22	54° 00'	✓	
		32	R		50° 41'	✓	
		33	Y		49° 02'	✓	
		34	B&W	11 28	46° 53'	✓	
		35	R		44° 40'	✓	
		36	Y		41° 13'	✓	
		37	B&W	11 32	38° 41'	✓	
		38	R		36° 45'	✓	
		39	Y		35° 11'	✓	
		40	B&W	11 35	33° 04'	✓	

Cut in 317+00 S

3-4-53

F. B. 1298 Pg. 202 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDY Date Date No.
Survey ~~M. C. Johnson~~ EH13 Notes Checked X-Sec.
Indexed Date Date No.

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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
5-20	5-21	41	R		32° 34'	✓	Cut in 317+00
		42	Y		29° 53'	✓	
		43	B&W	11 37	28° 58'	✓	
		44	R		26° 42'	✓	
		45	Y		24° 56'	✓	
		46	B&W	11 39	23° 31'	✓	

Cut in 317+00 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V F. B. 1298 Pg. 203
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes R.G. Date 3-4-'53
No. ____ Date ____ Date ____ Map No. ____ Date ____

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.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	

F. B. 1298 Pg. 204 Job No. Division No. Notes Red. Plotted Profile
Survey of Date Date No. X-Sec.
Survey by Notes Notes Chkd. Checked
Indexed Date Date Date No.

Profile No. ____ X-Sec. No. ____

Notes Red. [illegible] Date 4-16-53 Plotted ____ Date ____

Notes Chkd. KAK Date 4-27-53 Checked ____ Date ____

Job No. [illegible] Survey of BEACH EROSION STUDIES Survey by [illegible] Map No. ____

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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317+00 S BOAT

# (STATION)	Color	Time (B.S.)	Meas. Depth (H.I.)	Bottom (F.S.)	Tide (ELEV.)	Adj. Depth	Distance	Remarks
1	BW	9 21	2185 / 2180	218.2	3.4	214.8	2563	IN - LEAD
2	R		2087 / 2075	207.9	3.5	204.4	2518	EN - RECORD
3	Y		2042 / 2030	203.4	3.5	199.9	2500	- LAND - MOTOR
4	BW	9 34	1985 / 1972	197.6	3.5	194.1	2510	
5	R		1915 / 1905	190.5	3.5	187.0	2400	
6	Y		1915 / 1900	190.5	3.6	186.9	2350	
7	BW	9 46	[illegible]	178.4	3.6	174.8	2310	
8	R		2035 / 2020	202.7		199.1	2185	Andersen Kvammen Stangeland
9	Y		1850 / 1840	184.4		180.8	2093	
10	BW	10 00	2052 / 2045	204.9	3.6	201.3	2150	
11	R		1850 / 1840	184.3	3.6	180.7	2100	
12	Y		1812 / 1810	181.1	3.7	177.4	2170	
13	BW	10 13	2010 / 2000	200.3	3.7	196.6	2088	
14	R		1772 / 1763	176.9	3.7	173.2	2133	
15	Y		1928 / 1912	192.1	3.8	188.3	2156	
16	BW	10 30	1483 / 1482	148.6	3.8	144.8	2086	we need a contact [illegible]
17	R		1365 / 1355	135.9		132.1	1931	needle
18	Y		1468 / 1455	146.1		142.3	1798	
19	BW	10 38	1642 / 1635	163.9	3.8	160.1	1650	
20	R		1639 / 1620	167.3		163.5	1568	

Book 317+00 S

74L298 307 4-50

76L298 307 4-50

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Do not extend notes this side of this line.

Profile No. ____ Notes Red. LCW Plotted ____
X-Sec. No. ____ Notes Chkd. KRA Date 4-16-53 Date ____
Notes ____ Checked ____
Date 4-22-53 Date ____

F. B. 92-98 PG. 100 Job No. 8416 Division No. ____
Survey of BEACH EROSION STUDIES
Survey by EMD Notes KRS
Indexed by G. Tolmachoff Date ____

STATION #	Color	B. S. Time	H. I. Notes Depth	F. S. Bottom	Tide	Adj. Depth	Distance	Remarks
			161.0					
21	Y		157.8	160.2	3.8	156.4	1450	
22	BW		148.0					
			147.2				V010	wave no good for above
			148.1					
22	BW	10.50	147.2	147.5	3.8	143.7	1307	
23	R		138.0					
			135.0	137.3		133.5	1206	
24	Y		126.7					
			125.5	125.9		122.1	1150	
25	BW	10.58	117.3					
			116.0	116.4	3.8	112.6	1094	
26	R		102.2					
			101.0	101.4		97.6	1032	
27	Y		89.7					
			88.6	89.0		85.2	935	
28	BW	11.06	85.6					
			84.6	84.9	3.8	81.1	865	
29	R		73.0					
			72.0	72.3		68.5	800	
30	Y		63.1					
			62.9	61.8		58.0	766	
31	BW	11.23	51.9	52.2	3.8	48.4	694	
32	R		41.6					
			40.7	40.7	3.7	37.0	627	
33	Y		34.4					
			32.8	33.3	3.7	29.6	586	
34	BW	11.30	27.2					
			26.7	26.7	3.7	23.0	528	
35	R		23.5					
			22.6	22.6		18.9	468	
36	Y		20.4					
			19.3	19.7		16.0	414	
37	BW	11.33	17.1					
			16.1	16.6	3.7	12.9	394	
38	R		16.0					
			14.9	15.3		11.6	371	to get [illegible]
39	Y		15.0					
			13.9	14.3		10.6	340	3 photos
40	RW	11.36	14.9	13.3		9.6	333	

Boat 317400 S

3-4-53

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. 317+00 S BOAT

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
41	R		13 0 / 11 1	11.7	3.7	8.0	297	
42	Y		11 0 / 9 8	10.2		6.5	288	
43	BW	11 38	10 0 / 8 9	9.3	3.7	5.6	260	
44	R		8 9 / 7 7	8.1		4.4	240	
45	Y		7 9 / 6 9	7.2		3.5	222	
46	BW	11 40	7 1 / 6 0	6.4	3.7	2.7		
47	R							
48	Y							

Boat 317+00 S

Profile Notes Red. [illegible] Plotted _____ Job No. 8416 Division No. _____ F. B. 1298 Pg. 207
No. _____ Date 4-16-53 Date _____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked _____ Survey by FHB Notes KRK Date 3-4-53
No. _____ Date 4-27-53 Date _____ Map No. [illegible] 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.		
# Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks

F. S. 1298 PG. 208

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 10-51

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.

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in X		
					Inst. at 317+00		
					Sight on 316+00		
316+00 S.	2 66	20 53		17 87			N.&T.
14' L.			2 3	18 2			Brk.
24' L.			8 0	12 5			"
T.P.	1 15	10 08	11 60	8 93			1x2
38' L.			1 2	8 9			Brk.
60' L.			4 6	5 5			"
T.P.	1 30	6 78	4 60	5 48			1x2
			5 6	1 2	45°15'	94	under water
			8 0	-1 2	49°58'	111	
			9 2	-2 4	59°41'	150	
			10 9	-4 1	67°42'	210	
			10 8	-4 0	71°05'	243	
			12 2	-5 4	73°24'	271	
			13 9	-7 1	75°25'	304	

Inshore
316+00 S.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 Pg. 209
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. [illegible] Checked ____ Survey by English Notes English Date 3-4-53
Date 4-17-53 Date ____ Map No. ____ Indexed by [illegible] Date ____

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. 1298 PG. 210 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile
Survey of Beach Erosion Studies Date _____ No. _____ X-Sec.
Survey by English Notes English Notes Chkd. _____ Checked _____
Indexed B. C. Johnson Date _____ Date 4-17-53 No. _____

STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡ Inst. at 317+00 Sight on 315+37		
315+37 S.	1 63	19 27		17 64		✓	N&T
19' L.			1 8	17 5		✓	Brk.
34' L.			9 5	9 8		✓	"
T.P.	3 76	11 45	11 58	7 9			1x2
72' L.			6 2	5 3		✓	Brk.
T.P.	1 62	7 04	6 03	5 42			1x2
			5 9	1 1	32°00'	102 ✓	under Water
			8 3	-1 3	41°02'	142 ✓	" "
			9 4	-2 4	48°54'	190 ✓	" "
			10 7	-3 7	55°55'	230 ✓	" "
			13 2	-5 2	61°33'	303 ✓	" "

Inshore.
315+37 S.

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.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks RANGE 316+00-S
316+00	S-21	1	B+W	12:17	85°52'	✓	
		2	R		85°08'	✓	
		3	Y		84°28'	✓	
		4	B+W	12:30	84°21'	✓	
		5	R		83°24'	✓	
		6	Y		84°52'	✓	
		7	B+W	12:37	84°04'	✓	
		8	R		84°42'	✓	
		9	Y		85°10'	✓	
		10	B+W	12:42	85°52'	✓	
		11	R		85°52'	✓	
		12	Y		85°52'	✓	
		13	B+W	12:44	85°52'	✓	
		14	R		85°52'	✓	
		15	Y		85°52'	✓	
		16	B+W	12:47	85°52'	✓	
		17	R		85°52'	✓	
		18	Y		85°52'	✓	
		19	B+W	12:49	85°52'	✓	
		20	R		85°52'	✓	

RANGE 316+00S

Profile Notes Red. Plotted Job No. 8412 Division No. F. B. 1299 Pg. 211
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by BLANCHARD Notes 15 Date 3-4-52
No. Date Date Map No. Mnd Old Job Date

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		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 316+00-S
316+00	S-21	21	Y		86°59'	✓	
		22	B+W	12:51	85°52'	✓	
		23	R		85°52'	✓	
		24	Y		85°52'	✓	
		25	B+W	12:52	85°52'	✓	
		26	R		85°52'	✓	
		27	Y		85°52'	✓	
		28	B+W	12:55	85°52'	✓	

RANGE 316+00 S

F. B. 1298 Pg. 212 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes VS Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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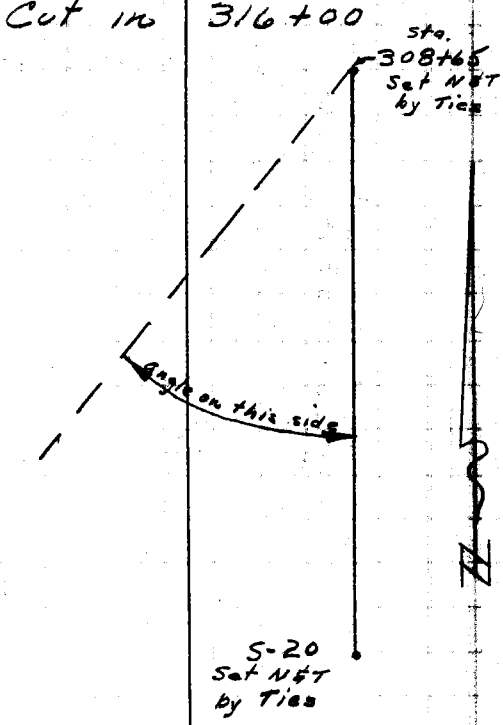
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.		Remarks
308+65	S-20	1	B&W	12 16	63° 28'	✓	Cut in 316+00
		2	R		64° 50'	✓	
		3	Y		61° 22'	✓	
		4	B&W	12 30	53° 22'	✓	
		5	R		53° 42'	✓	
		6	Y		52° 53'	✓	
		7	B&W	12 37	51° 17'	✓	
		8	R		49° 41'	✓	
		9	Y		48° 28'	✓	
		10	B&W	12 42	47° 36'	✓	
		11	R		46° 49'	✓	
		12	Y		45° 53'	✓	
		13	B&W	12 44	43° 45'	✓	
		14	R		42° 43'	✓	
		15	Y		40° 56'	✓	
		16	B&W	12 47	38° 56'	✓	
		17	R		37° 49'	✓	
		18	Y		36° 24'	✓	
		19	B&W	12 48	35° 30'	✓	
		20	R		33° 12'	✓	



Cut in 316+00 S

Profile Notes Red. Plotted Job No. 8412 Division No. V F. B. 1298 Pg. 213
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by FHB Notes R.G. Date 3-4-53
No. Date Date Map No. Indexed Date

76L298 307 4-50

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Do not extend notes this side of this line.

F. B. 12-98 Pg. 214 Job No. 9412 Division No. K Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by F H B Notes R.G. Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Her. Ang.		Remarks	
308+65	S-20	21	Y		31° 56'	✓	Cut in	316+00
		22	B&W	12 50	30 25	✓		
		23	R		28 56	✓		
		24	Y		27° 18'	✓		
		25	B&W	12 52	25° 52'	✓		
		26	R		24° 04'	✓		
		27	Y		22° 47'	✓		
		28	B&W	12 54	20° 15'	✓		

CUT IN 316+00 S

76L269 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. 316+00 S BOAT

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Est. Depth	Distance	Remarks
			185.1					
1	BW	12.17	184.2	184.5	3.4	181.1	1440v	NO - LEAD
			181.2					
2	R		180.0	180.4	3.4	177.0	1578v	EN - RECORD
			153.5					
3	Y		152.0	152.5	3.3	149.2	1387v	SON - MOTOR
			120.8					
4	BW	12.28	119.1	119.7	3.3	116.4	994v	
			103.8					
5	R		102.5	102.9		99.6	1028v	
			96.3					
6	Y		94.9	95.4		92.1	964v	
			86.8					
7	BW	12.38	84.8	85.5	3.3	82.2	925v	
			70.9					
8	R		69.8	70.2	3.3	~~63.9~~ 66.9	858v	
			61.9					
9	Y		61.0	61.3	3.2	58.1	811v	
			55.2					
10	BW	42	54.0	54.4	3.2	51.2	775v	
			49.0					
11	R		48.0	48.3		45.1	752v	
			46.7					
12	Y		44.9	45.5		42.3	728v	
			43.0					
13	BW	44	41.0	41.7	3.2	38.5	672v	
			38.5					
14	R		37.9	37.4		34.2	649v	
			34.0					
15	Y		32.5	33.0		~~30.8~~ 29.8	607v	
			28.6					
16	BW	12.47	28.0	27.5	3.2	~~24.3~~ 24.3	561v	
			26.8					
17	R		24.9	25.5		22.3	538v	
			24.0					
18	Y		23.8	23.2		20.0	501v	
			22.0					
19	BW	48	21.0	20.9	3.2	17.7	493v	
			17.0					
20	R		16.0	19.0		~~12.8~~ 15.8	451v	

STATION 316+00 S

Profile Notes Red Pencil Plotted Job No. 3446 Division No. R 1198 Sh. 2
No. Date 4-17-53 Date Survey of REASH & EDSON STUDIES
X-Sec. Notes Chkd Date 4-17-53 Checked Survey by AWB Notes KRK Date 3-5-53
No. Date 4-7-53 Date Map No. Checked 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.

STATION	B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
21	Y		18 3 / 17 0	17.4	3.1	14.3	424	
22	BW	1251	17 1 / 15 9	16.3	3.1	13.2	402	
23	R		16 0 / 14 1	14.7		11.6	378	
24	Y		14 1 / 12 9	13.3		10.2	349	
25	BW	53	12 2 / 11 0	11.4	3.1	8.3	327	
26	R		11 2 / 9 2	9.9		6.8	300	
27	Y		9 5 / 8 3	8.7		5.6	280	
28	BW	55	8 0 / 5 7	6.5	3.1	3.4	242	

Boat 316+00 S

F. B. 1298 Pg. 216 Job No. 8412 Division No. X Notes Red. RCW Plotted Profile
Survey of BEACH EROSION STUDIES Date 4-17-53 Date No.
Survey by FKB Notes KRK Notes Chkd. KRK Checked X-Sec.
Indexed R. O. Johnson Date Date 4-27-53 Date No.

F. B. 1298 Pg. 217

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

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.

RETURN TO
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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 2-51

F. B. 1298 PG. 218

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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

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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.

F.B. 1299 Pg. 7-19

Notes Ck'd by
Map No.
Office Work Law
Checked
Date

Survey of
W. O. Tape No. St'd °F
Surveyed by
Notes Date
Indexed J. C. Johnson

March 5 1953
Santa Monica Pier

TIME	GAGE
0600	1.3
0630	1.4
0700	1.6
0730	1.8
0800	2.1
0830	2.4
0900	2.7
0930	2.9
1000	3.2
~~1030~~	~~3.4~~
1100	3.5
1130	3.6
1200	3.5
1230	3.3
1300	3.2
1330	2.9
1400	2.6
1430	
1500	

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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726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 2-51

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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.

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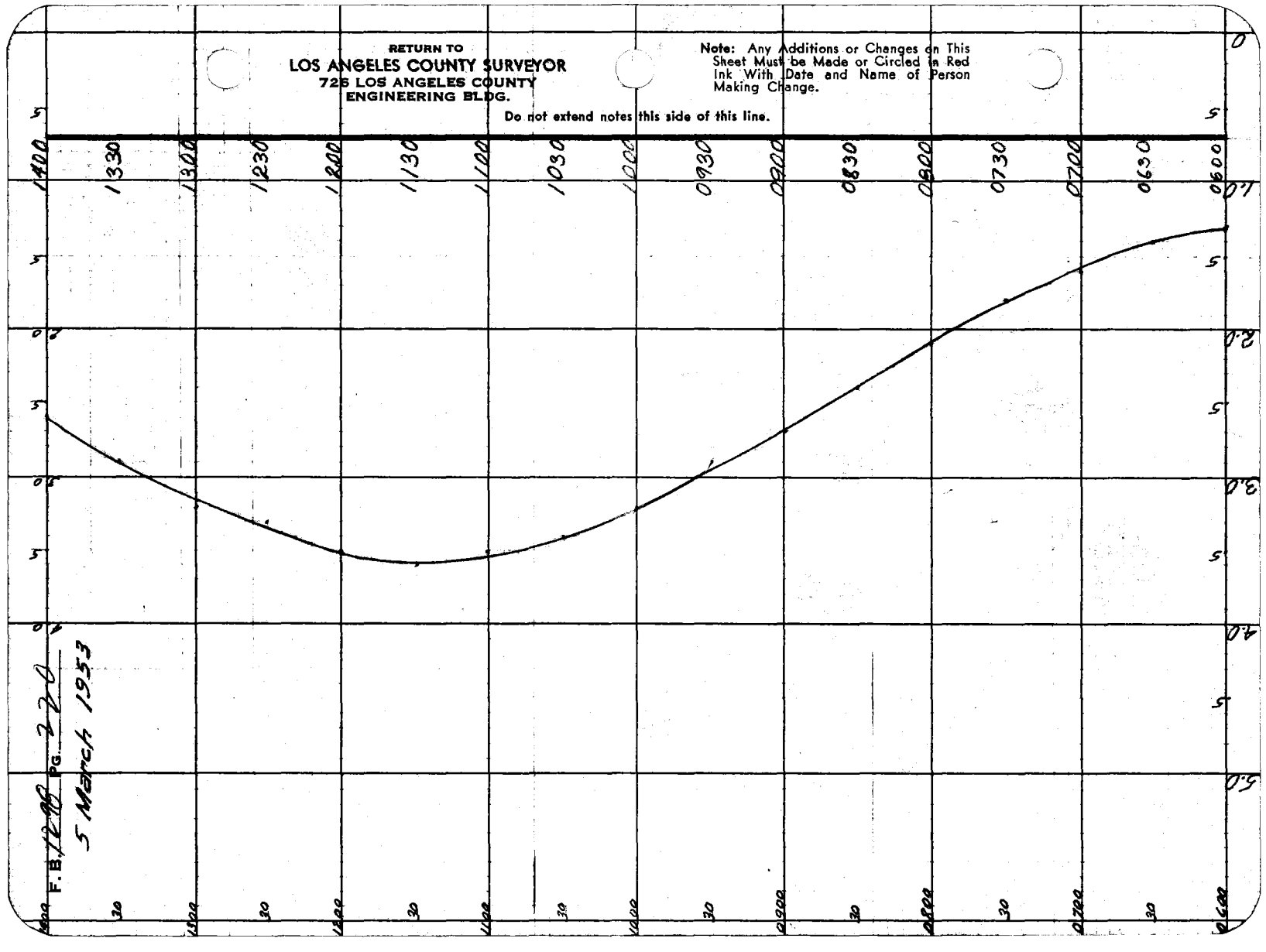

76L298 307 10-51

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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.	Cut-in ∡ Inst. at 317+00 Sight on 315+10		
315+10 S.	1 76	19 28		17 52		✓	N.&T.
17' L.			1 2	18 1		✓	Brk.
32' L.			6 7	12 6		✓	"
T.P.	2 41	12 26	9 43	9 85			1x2
52' L.			4 3	8 0		✓	Brk.
80' L.			6 2	6 1		✓	"
T.P.	2 21	8 41	6 06	6 20			1x2
			8 9	-0 5	31° 57'	116 ✓	under water
			9 9	-1 5	36° 43'	143 ✓	" "
			11 0	-2 6	41° 52'	170 ✓	" "
			11 5	-3 1	46° 34'	194 ✓	" "
			12 1	-3 7	49° 57'	224 ✓	" "
			13 8	-5 4	56° 08'	283 ✓	" "

Inshore
315+10 S.

Profile
No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 Pg. 221
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Lewis Checked ____ Survey by English Notes English Date 3-5-53
No. ____ Date 4-17-53 Date ____ Map No. ____ Indexed ____ 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.	Cut-in ∡	
					Inst. at 317+00 Sight on 314+65	
314+65 S.	1 85	19 29		17 44	✓	N.&T.
18' L.			1 5	17 8	✓	Brk.
30' L.			6 6	12 7	✓	"
T.P.	3 86	12 90	10 25	9 04		1x2
50' L.			3 9	9 0	✓	Brk.
75' L.			7 0	5 9	✓	"
T.P.	1 00	6 95	6 95	5 95		1x2
			4 5	2 5	23°57' 101 ✓	under water
			8 0	-1 0	28°39' 123 ✓	" "
			9 0	-2 0	36°16' 162 ✓	" "
			9 5	-2 5	43°48' 211 ✓	" "
			10 8	-3 8	49°51' 258 ✓	" "
			12 7	-5 7	54°32' 302 ✓	" "

Inshore 314+65 S.

F.B. 1298 PG. 223 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by English Notes English Notes Chkd. [illegible] Checked
Indexed [illegible] C. Johnson Date Date 4-17-53 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.		
Inst. Sight At On		# Color	Time	Hor. Ang.		Remarks RANGE 315+37-S
315+37	S-21 1	B+W	7:00	90°00'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	7:03	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		90°00'	✓	
	7	B+W	7:12	90°00'	✓	
	8	R		90°00'	✓	
	9	Y		90°00'	✓	
	10	B+W	7:15	90°00'	✓	
	11	R		90°00'	✓	
	12	Y		90°00'	✓	
	13	B+W	7:18	90°00'	✓	
	14	R		90°57'	✓	
	15	Y		91°54'	✓	
	16	B+W	7:21	88°50'	✓	
	17	R		90°00'	✓	
	18	Y		90°00'	✓	
	19	B+W	7:23	90°00'	✓	
	20	R		90°00'	✓	

RANGE 315+37 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1298 Pg. 223
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes JS Date 3-5-53
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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F. B. 12 99 Pg. 124 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes J.S. Notes Chkd. Checked X-Sec.
Indexed Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
315+37 S-21	21	Y		90° 00'	✓	RANGE 315+37-S
	22	B+W	7:28	90° 00'	✓	
	23	R		90° 00'	✓	
	24	Y		90° 00'	✓	
	25	B+W	7:30	90° 00'	✓	
	26	R		90° 00'	✓	
	27	Y		90° 00'	✓	
	28	B+W	7:32	90° 00'	✓	
	29	R		90° 00'	✓	
	30	Y		90° 00'	✓	
	31	B+W	7:34	90° 00'	✓	

RANGE 315+37 S

3-5-53

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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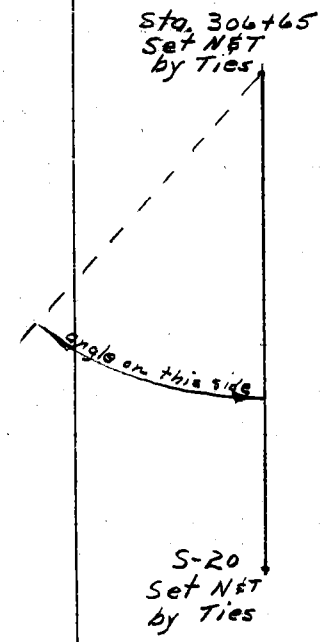
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
306+65	S-20	1	B&W	7 00	40° 09' ✓	Cut in 315+37
		2	R		39° 15' ✓	
		3	Y		37° 52' ✓	
		4	B&W	7 04	37° 15' ✓	
		5	R		37° 05' ✓	
		6	Y		36° 49' ✓	
		7	B&W	7 12	36° 26' ✓	
		8	R		36° 06' ✓	
		9	Y		35° 47' ✓	
		10	B&W	7 15	35° 37' ✓	
		11	R		35° 08' ✓	
		12	Y		34° 53' ✓	
		13	B&W	7 18	34° 42' ✓	
		14	R		34° 08' ✓	
		15	Y		34° 41' ✓	
		16	B&W	7 21	33° 05' ✓	
		17	R		32° 35' ✓	
		18	Y		32° 00' ✓	
		19	B&W	7 23	31° 35' ✓	
		20	R		30° 31' ✓	



3-5-53

Cut In 315+37 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1295 Pg. 225
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes RG Date 3-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
306+65	S-20	21	Y	7 27	29° 10'	✓	Cut in 315+37
		22	B&W	7 28	28° 33'	✓	
		23	R		27° 29'	✓	
		24	Y		26° 37'	✓	
		25	B&W	7 31	25° 51'	✓	
		26	R		24° 41'	✓	
		27	Y		23° 43'	✓	
		28	B&W	7 33	22° 34'	✓	
		29	R		21° 45'	✓	
		30	Y		21° 00'	✓	
		31	B&W	7 34	20° 04'	✓	

Cut in 315+37.5

3-5-53

F. B. 1298 Pg. 226
Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes R.G. Notes Chkd. Checked X-Sec.
Indexed [redacted] Date Date No.

76L298 307 4-60

52 59
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. 315+37 S BOAT

Profile Notes Red Pencil Plotted Date 4-17-53 Job No. 6413 Section No. V Date 4-17-53 Survey of BEACH EROSION STUDIES
No. X-Sec. Notes Ohm Pen Checked Date 4-2-53 Survey by EHB Ink Pen Checked Date 2-25-53
No. Date Map No. Inked Date

STATION #	Color	Time	H. I. Measured Depth	F. S. Bottom	Tide	Adj. Depth	Distance	Remarks
			55.9					
1	BW	7:01	54.5	55.0	1.6	53.4	671	soft Motor Lead
			55.5					
2	R		53.8	54.4		52.8	651	land Oars
			52.3					
3	Y		50.9	51.4		49.8	621	poker Notes
			50.2					
4	BW	7.04	49.0	49.4	1.6	47.8	610	
			49.0					
5	R		48.0	48.3	1.6	46.7	604	Soft
			47.5					
6	Y		46.2	46.6	1.7	44.9	599	"
			46.5					
7	B&W	7.13	45.0	45.5	1.7	43.8	590	
			43.2					
8	R		42.0	42.4		40.7	582	contrast in depth
			41.4					
9	Y		40.0	40.5		38.8	576	
			39.7					
10	B&W	7.15	38.5	38.9	1.7	37.2	572	
			37.5					
11	R		35.3	36.0		34.3	560	
			34.4					
12	Y		33.0	33.5		31.8	558	
			32.6					
13	B&W	7.17	30.5	31.2	1.7	29.5	552	
			30.8					
14	R		29.0	29.6		27.9	538	
			29.5					
15	Y		28.0	28.5		26.8	544	*
			27.9					
16	B&W	7.21	26.3	26.8	1.8	25.0	528	
			25.5					
17	R		24.5	24.8		23.0	512	
			23.5					
18	Y		22.5	22.8		21.0	500	
			21.5					
19	B&W	7.23	20.0	20.5	1.8	18.7	490	
			19.9					
20	R		18.0	18.4		16.6	470	

Page 1 of 37 S.

76L298 307 4-50

PLEASE RETURN TO
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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. 315+37 Boat

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

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
			18.8					
21	Y		17.0 / 17.9	17.6	1.8	15.8	444	Hard
22	B & W	7.28	16.0 / 16.9	16.6	1.8	14.8	433	
23	R		15.0 / 15.3	15.6		13.8	413	
24	Y		13.9 / 14.5	14.4		12.6	400	
25	B & W	7.32	12.9 / 13.7	13.4	1.8	11.6	385	
26	R		11.8 / 12.5	12.4		10.6	365	
27	Y		10.9 / 10.9	11.1		9.3	350	
28	B & W	7.33	9.0 / 9.9	9.6	1.8	7.8	330	
29	R		7.9 / 9.3	8.6	1.8	6.8	317	
30	Y		7.0 / 8.8	7.8	1.9	5.9	302	
31	B & W	7.34	6.0	6.9	1.9	5.0	288	
32								
33								
34								
35								
36								
37								
38								
39								

Boat 315+37 5

3-5-53

F. B. 12 98 PG. 128 Job No. 8842 Division No. Y Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date 4-17-53 Date
Survey by E. H. B. Notes E3 Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.
Profile X-Sec.

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. Sight At On		# Color	Time	Hor. Ang.		Remarks RANGE 314+65
314+65	S-21 1	B+W	7:52	85°19'	✓	
	2	R		85°52'	✓	
	3	Y		85°52'	✓	
	4	B+W	7:56	85°52'	✓	
	5	R		85°52	✓	
	6	Y		85°52'	✓	
	7	B+W	8:16	85°20'	✓	
	8	R		85°52'	✓	
	9	Y		85°52'	✓	
	10	B+W	8:24	85°30'	✓	
	11	R		85°52'	✓	
	12	Y		85°52'	✓	
	13	B+W	8:33	85°52'	✓	
	14	R		85°52'	✓	
	15	Y		85°52'	✓	
	16	B+W	8:41	85°52'	✓	
	17	R		85°52'	✓	
	18	Y		85°52'	✓	
	19	B+W	8:51	85°52'	✓	
	20	R		85°52'	✓	

RANGE 314+65 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 Pg. 229
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes JS Date 3-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Tab. Date ____

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.

F. B. 12-98 Pg. 220 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by BANCHARD Notes J.S. Notes Chkd. Checked X-Sec.
Indexed J. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Colbr	Time	Hor. Ang.		Remarks RANGE 314+65-S
314+65 S-21	21	Y		85°52'	✓	
	22	B+W	8:57	85°52'	✓	
	23	R		85°41'	✓	
	24	Y		85°52'	✓	
	25	B+W	9:02	85°52'	✓	
	26	R		85°52'	✓	
	27	Y		85°52'	✓	
	28	B+W	9:08	85°52'	✓	
	29	R		85°52'	✓	
	30	Y		85°52'	✓	
	31	B+W	9:14	85°52'	✓	
	32	R		85°52'	✓	
	33	Y		85°52'	✓	
	34	B+W	9:16	85°52	✓	
	35	R		85°52	✓	
	36	Y		85°52'	✓	
	37	B+W	9:18	85°52'	✓	
	38	R		85°52'	✓	
	39	Y		85°52'	✓	
	40	B+W	9:19	85°52'	✓	

RANGE 314+65 S

3-5-53

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

Profile Notes Red. ____ Plotted ____ Job No. ____ Division No. ____
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd. ____ Checked ____ Survey by ____ Notes ____ Date ____
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1298 PG. 231

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.

F. B. 1298 PG. 332 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes ds Notes Chkd. Checked X-Sec.
Indexed R. O. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
314+65 S-21	41	R		85°52'	✓	RANGE 314+65-S
	42	Y		85°52'	✓	
	43	B+W	9:21	85°52'	✓	
	44	R		85°52'	✓	
	45	Y		85°52'	✓	
	46	B+W	9:23	85°52'	✓	
	47	R		85°52'	✓	
	48	Y		85°52'	✓	
	49	B+W	9:26	85°52'	✓	
	50	R		85°52'	✓	
	51	Y		85°52'	✓	
	52	B+W	9:27	85°52'	✓	
	53	R		85°52'	✓	
	54	Y		85°52'	✓	

RANGE #314+65-S

J-6-53

76L298 307 4-50

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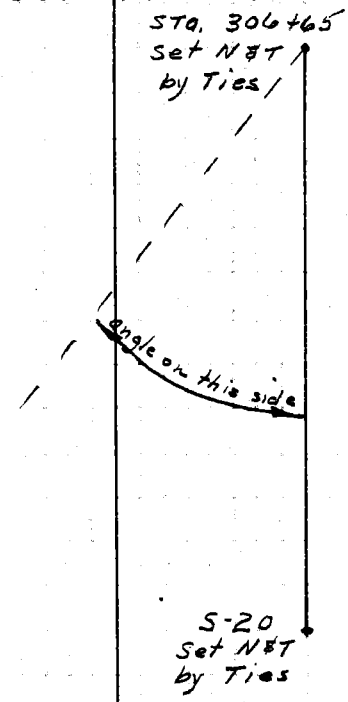
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
306+65	S-20	1	B+W	7.51	69°15'	✓ Cut in 314+65
		2	R	7.53	69°19'	✓
		3	Y	7.55	68°53'	✓
		4	B+W	7.56	68°40'	✓
		5	R	8.07	70°22'	✓
		6	Y	8.14	67°55'	✓
		7	B+W	8.17	66°41'	✓
		8	R	8.20	66°06'	✓
		9	Y	8.21	65°30'	✓
		10	B+W	8.25	64°20'	✓
		11	R	8.27	63°26'	✓
		12	Y	8.30	62°43'	✓
		13	B+W	8.33	61°40'	✓
		14	R	8.36	60°33'	✓
		15	Y	8.39	59°23'	✓
		16	B+W	8.41	58°23'	✓
		17	R	8.47	57°33'	✓
		18	Y	8.49	56°27'	✓
		19	B+W	8.51	55°21'	✓
		20	R	8.53	54°28'	✓



Cut in 314+65 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes H.C.H. Date 3-5-'53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1298 Pg. 233

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		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
306+65	5-20	21	Y	8.55	53°28'	✓	Cut in 314+65
		22	B.+W	8.58	52°09'	✓	
		23	R	8.59	50°33'	✓	
		24	Y	9.01	49°42'	✓	
		25	B+W	9.03	48°51'	✓	
		26	R	9.04	47°29'	✓	
		27	Y	9.06	46°24'	✓	
		28	B.+W	9.08	44°48'	✓	
		29	R	9.09	42°41'	✓	
		30	Y	9.11	39°42'	✓	
		31	B.+W	9.14	38°14'	✓	
		32	R	9.15	37°02'	✓	
		33	Y	9.16	36°46'	✓	
		34	B+W	9.17	36°00'	✓	
		35	R	9.17+	35°42'	✓	
		36	Y	9.17+	35°30'	✓	
		37	B+W	9.18	35°24'	✓	
		38	R	9.18+	34°52'	✓	
		39	Y	9.19	34°23'	✓	
		40	B.+W.	9.19+	34°00'	✓	

Cut In 314+65 S

3-5-53

F. B. 1299 Pg. 234
Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes HSH Notes Chkd. Checked X-Sec.
Indexed A. Johnson 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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
306+65	5-20	41	R	9.20	33°22' ✓	Cut in 314+65
		42	Y	9.20+	32°51' ✓	
		43	B+W.	9.21	32°05' ✓	
		44	R	9.22	31°08' ✓	
		45	Y	9.22+	30°20' ✓	
		46	B+W	9.23	28°49' ✓	
		47	R	9.24	27°46' ✓	
		48	Y	9.25	26°49' ✓	
		49	B+W	9.25+	25°51' ✓	
		50	R	9.26	24°49' ✓	
		51	Y	9.26+	23°45' ✓	
		52	B+W	9.27	23°05' ✓	
		53	R	9.28	21°52' ✓	
		54	Y	9.29	20°00' ✓	

Cut in 314+65 S

Profile Notes Red. ____ Plotted ____ Job No. 84 2 Division No. V F. B. 1299 Pg. 235
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by EHB Notes HCH Date 3-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1298 PG. 236 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.		
Inst.Sight At On	#	Color	Time	Hor.Ang.		Remarks

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Do not extend notes this side of this line. 314+65 Boat

Profile Notes Red Pencil Plotted Job No. 1412 Division No. 1
No. Date Date Date Survey of RESEACH FEDSION STUDIES
X-Sec. Notes Chkd. RPK Checked Survey by EHB Notes ES Date 3-5-53
No. Date 2-24-53 Date 2-24-53 Date Map No. Indexed Date

F.S. 1/2 Pg. 24

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
			234.0					Motor
1	B&W	7:53	226.5	227.3	2.0	225.3	1960V	Anderson Sounding
			225.9					
2	R		224.4	224.9	2.0	222.9	1916V	Stanglund Sounding
			223.0					
3	Y		220.9	221.6	2.1	219.5	1879V	Shoemaker Notes
			217.0					
4	B&W	7:57	215.9	216.3	2.1	214.2	1851V	Soft
			238.0					
5	R	8:08	236.4	236.9	2.2	234.7	2028V	Went deeper to
			212.3					
6	Y	8:14	211.0	211.4	2.2	209.2	1780V	pick up missed
			205.4					
7	B&W	8:17	203.9	204.4	2.3	202.1	1674V	Shots, expected truth
			193.5					
8	R		192.0	192.5		190.2	1630V	
			185.2					
9	Y		183.7	184.2		181.9	1582V	
			176.1					
10	B&W	8:25	174.9	175.3	2.3	173.0	1499V	
			165.7					
11	R		163.5	164.2	2.3	161.9	1440V	
			171.0					
12	Y		169.0	169.7	2.4	167.3	1398V	
			166.2					
13	B&W	8:33	164.3	164.9	2.4	162.5	1331V	
			159.5					
14	R		157.9	158.4	2.4	156.0	1270V	
			153.4					
15	Y		152.1	152.5	2.5	150.0	1212V	
			145.8					
16	B&W	8:42	144.7	145.1	2.5	142.6	1168V	
			139.5					
17	R		138.0	138.5	2.5	136.0	1121V	
			130.8					
18	Y		128.5	129.9	2.6	127.3	1079V	
			124.0					
19	B&W	8:52	123.0	123.3	2.6	120.7	1030V	
			118.2					
20	R		116.7	117.2		114.6	998V	

Boat 314+65 S

76L298 307 4-50

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Do not extend notes this side of this line. 314+65 Boat

#	STATION	B. S.	H. I.	F. S.	ELEV.	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Distance	Remarks
21	Y		113.0 / 111.9	112.3	2.7	109.6					960	
22	B & W	8:58	106.0 / 104.0	104.7	2.7	102.0					920	
23	R		98.5 / 96.9	97.4		94.7					863	
24	Y		94.1 / 92.9	93.3		90.6					839	
25	B & W	9:03	89.0 / 87.0	87.7	2.7	85.0					810	
26	R		81.1 / 79.2	79.8		77.1					772	
27	Y		74.8 / 73.2	73.7		71.0 ~~71.7~~					741	
28	B & W	9:08	66.8 / 65.3	65.8	2.7	63.1					699	
29	R		61.0 / 59.9	60.3	2.8	57.5					649	
30	Y		58.0 / 57.2	57.5	2.8	54.7					580	
31	B & W	9:15	55.0 / 53.9	54.3	2.8	51.5					550	
32	R		52.5 / 50.5	51.2		48.4 ~~48.8~~					522	
33	Y		49.5 / 48.0	48.5		45.7					518	
34	B & W	9:17	46.7 / 45.0	45.6	2.8	42.8					503	
35	R		42.0 / 40.5	41.0		38.2					498	
36	Y		38.5 / 37.0	37.5		34.7					492	
37	B & W	9:18	36.0 / 34.8	35.2	2.9	32.3					490	
38	R		32.5 / 31.3	31.7		28.8					482	Soft
39	Y		30.3 / 29.0	29.4		26.5					474	
40	B & W	9:20	28.8 / 27.5	27.9		25.0					468	

Boat 314+65 53-5-53

F. B. 1298 PG. 238
Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date 4-17-53 Date No.
Survey by EHB Notes ES Notes Chkd. Checked X-Sec.
Indexed L. O. Johnson 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. 314+65 Boat

Profile No. ____ Notes Red Rowe Plotted ____ Job No. 8412 Division No. V F.B. 1298 P.B. 7-29
Date 4-17-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. RBC Checked ____ Survey by FHB Notes ES Date 3-5-53
Date 4-22-53 Date ____ Map No. ____ Indexed ____ Date ____

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Elevation	Remarks
			27.2					
41	R		25.8	26.3	2.9	23.4	457v	
			25.4					
42	Y		24.0	24.5		21.6	446v	
			23.5					
43	B & W	9:21	22.2	22.6	2.9	19.7	432v	
			21.3					
44	R		20.0	20.4		17.5	414v	
			19.7					
45	Y		18.0	18.6		15.7	401v	
			17.5					
46	B & W	9:24	16.6	16.9	2.9	14.0	375v	
			16.3					
47	R		15.1	15.5		12.6	358v	
			14.9					
48	Y		13.5	14.0		11.1	342v	
			13.5					
49	B & W	9:26	12.4	12.8	2.9	9.9	328v	
			12.6					
50	R		11.0	11.5		8.6	310v	
			11.7					
51	Y		10.0	10.6		7.7	294v	
			10.6					
52	B & W	9:27.5	9.1	9.6	2.9	6.7	283v	
			10.0					
53	R		7.8	8.5		5.6	266v	
			7.7					
54	Y		6.3	6.8		3.9	240v	

Boat 314+65 S

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.		

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks

F. B. 12 98 Pg. 240

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

Date ____ Date ____ No. ____

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

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

Indexed ____

Profile No. _____ Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F.B. 1298 Pg. 241

Date _____ Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd. LCWF Checked _____ Survey by English Notes English Date 3-5-53

Date 4-17-53 Date _____ Map No. _____ Indexed Johnson Date _____

Inshore
312+65 S.

STATION	B.S.	H.I.	F.S.	ELEV.	Cut-in ∡		
					Inst. at 310+65 Sight on S-20		
312+65 S.	0 48	17 82		17 34			N.&T.
12' L.			0 9	16 9			Brk.
33' L.			7 6	10 2			"
T.P.	3 45	11 97	9 30	8 52			1x2
58' L.			4 3	7 7			Brk.
T.P.	1 10	7 19	5 88	6 09			1x2
			5 7	1 5	27°03'	100	under water
			8 7	-1 5	30°10'	114	" "
			10 0	-2 8	43°30'	190	" "
			11 2	-4 0	50°55'	247	" "
			13 3	-5 0	54°34'	282	" "

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76L298 307 10-51

76L298 307 10-51

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STATION	B. S.	H. I.	F. S.	ELEV.	Cut-in ∡		
					Inst. at S-20 Sight on 310+65		
310+65 S.	2 02	20 24		18 22		✓	N.&T.
14' L.			1 2	19 0		✓	Brk.
25' L.			7 1	13 1		✓	"
T.P.	2 20	12 26	10 18	10 06			1x2
44' L.			3 1	9 2		✓	Brk.
70' L.			6 0	6 3		✓	"
T.P.	0 99	7 10	6 15	6 1			1x2
			5 6	1 5	37°27'	108✓	under water
			8 4	-1 3	41° 15'	121✓	" "
			9 5	-2 4	52° 02'	180✓	" "
			10 6	-3 5	59° 00'	230✓	" "
			12 8	-5 7	63° 55'	285✓	" "

Inshore 310+65 S.

F.B. 1298 PG. 242 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by English Notes English Notes Chkd. Checked No.
Indexed [illegible] Date Date 9-17-53 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. Sight At	On	# Color	Time	Hor. Ang.		Remarks RANGE 312+65-S
312+65	S-21 1	B+W	9:45	85°52'	✓	
	2	R		85°52'	✓	
	3	Y		85°52'	✓	
	4	B+W	9:51	85°52'	✓	
	5	R		85°52'	✓	
	6	Y		85°52'	✓	
	7	B+W	9:57	85°52'	✓	
	8	R		86°24'	✓	
	9	Y		86°22'	✓	
	10	B+W	10:11	85°52'	✓	
	11	R		85°34'	✓	
	12	Y		85°06'	✓	
	13	B+W	10:16	85°20'	✓	
	14	R		85°52'	✓	
	15	Y		85°52'	✓	
	16	B+W	10:22	86°17'	✓	
	17	R		85°52'	✓	
	18	Y		85°52'	✓	
	19	B+W	10:26	85°52'	✓	
	20	R		85°52'	✓	

RANGE 312+65 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1298 Pg. 243
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes J.S. Date 3-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed John Wood Date ____

F. B. 1299 Pg. 244 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by F.H.B. Notes J.S. Notes Chkd. Checked X-Sec.
Indexed H. O. Johnson Date Date Date No.

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 312+65-S
312+65	S-21	21	Y		85°52'	✓	
		22	B+W	10:31	85°52'	✓	
		23	R		85°52'	✓	
		24	Y		85°52	✓	
		25	B+W	10:35	85°52'	✓	
		26	R		85°13'	✓	
		27	Y		85°52'	✓	
		28	B+W	10:41	85°52'	✓	
		29	R		85°52'	✓	
		30	Y		85°52'	✓	
		31	B+W	10:45	85°52'	✓	
		32	R		85°52'	✓	
		33	Y		85°52'	✓	
		34	B+W	10:47	85°52'	✓	
		35	R		85°52'	✓	
		36	Y		85°52'	✓	
		37	B+W	10:50	85°52'	✓	
		38	R		85°52'	✓	
		39	Y		85°52'	✓	
		40	B+W	10:52	85°52'	✓	

RANGE 312+65-S

3-5-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		# Color	Time	Hor. Ang.		Remarks
312+65	S-21					RANGE 312+65-S
	41	R		86°34'	✓	
	42	Y		85°52'	✓	
	43	B&W	10:54	85°52'	✓	
	44	R		85°52'	✓	
	45	Y		85°52'	✓	
	46	B&W	10:57	85°52'	✓	
	47	R		85°52'		

RANGE 312+65 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. S. 1298 Pg. 245
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHS Notes JS Date 3-5-53
No. ____ Date ____ Date ____ Map No. ____ Made by Johnson Date ____

F. B. 1298 Pg. 246 Job No. 8412 Division No. V Notes Red. ✓ Plotted ____ Profile
Survey of BEACH EROSION STUDIES Date ____ No. ____
Survey by BLANCHARD Notes J/S Notes Chkd. ____ Checked ____ X-Sec.
Indexed ____ Date ____ Date ____ No. ____

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks RANGE 310+65-S
310+65 / S-20	1	B+W	11:16	90°38'	✓	
	2	R		90°00'	✓	
	3	Y		90°00'	✓	
	4	B+W	11:20	90°00'	✓	
	5	R		90°00'	✓	
	6	Y		90°00'	✓	
	7	B+W	11:27	90°00'	✓	
	8	R		89°38'	✓	
	9	Y		89°23'	✓	
	10	B+W	11:31	90°52'	✓	
	11	R		89°35'	✓	
	12	Y		90°00'	✓	
	13	B+W	11:36	90°00'	✓	
	14	R		90°00'	✓	
	15	Y		90°00'	✓	
	16	B+W	11:41	90°00'	✓	
	17	R		90°00'	✓	
	18	Y		90°00'	✓	
	19	B+W	11:45	90°00'	✓	
	20	R		90°00'	✓	

RANGE 310+65-S

3-5-53

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	# Color	Time	Hor. Ang.		Remarks RANGE 310+65-S
310+65	S-20 21	Y		90°00'	✓	
	22	B+W	11:49	90°00'	✓	
	23	R		90°00'	✓	
	24	Y		90°00'	✓	
	25	B+W	11:51	90°00'	✓	
	26	R		89°14'	✓	
	27	Y		90°00'	✓	
	28	B+W	11:53	90°00'	✓	
	29	R		90°51'	✓	
	30	Y		90°00'	✓	
	31	B+W	11:56	90°00'	✓	
	32	R		90°00'	✓	
	33	Y		90°00'	✓	
	34	B+W	11:58	90°00'	✓	
	35	R		90°00'	✓	
	36	Y		90°00'	✓	
	37	B+W	12:00	90°00'	✓	
	38	R		90°00'	✓	
	39	Y		90°00'	✓	
	40	B+W	12:03	90°00'	✓	

RANGE 310+65-S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1298 Pg. 247
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by BLANCHARD Notes JS Date 3-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1298 PG. 248 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 [redacted] Date Date Date No.

RANGE 310+65 S

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	#	Color	Time	Hor. Ang.		Remarks
310+65 S-20	41	R		90°00'	✓	RANGE 310+65-S
	42	Y		90°00'	✓	
	43	B&W	12:06	90°00'	✓	

3-5-53

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Do not extend notes this side of this line. 312+65 Boat

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
1	B&W	9:46	201.9 / 200.4	200.9	3.1	197.8	1880	Anderson S Soundings
2	R		196.8 / 194.9	195.5		192.4	1800	Stangeland D. soundings
3	Y		192.0 / 190.3	190.9		187.8 ~~197.8~~	1720	Shoemaker Notes
4	B&W	9:51.5	187.1 / 185.4	186.0	3.1	182.9	1667	
5	R		182.0 / 180.1	180.7		177.6	1610	Soft
6	Y		175.5 / 174.1	174.6		171.5	1570	
7	B&W	9:58	169.0 / 166.9	167.6	3.2	164.4	1520	
8	R		163.0 / 161.9	162.3		159.1	1468	
9	Y		158.5 / 156.0	156.8		153.6	1400	
10	B&W	10:11	147.0 / 145.7	146.1	3.3	142.8	1287	
11	R		139.1 / 137.7	138.2		134.9	1252	"
12	WY		134.1 / 133.0	133.4		130.1	1222	
13	B&W	10:16	131.6 / 130.6	130.9	3.3	127.6	1178	
14	R		126.0 / 125.0	125.3		122.0	1120	
15	Y		121.2 / 119.0	119.7		116.4	1082	
16	B&W	10:23	116.8 / 114.8	115.2	3.4	111.8	1053	
17	R		111.7 / 109.3	110.1		106.7	1005	
18	Y		107.7 / 106.0	106.6		103.2	960	
19	B&W	10:27	102.0 / 100.8	101.2	3.4	97.8	918	
20	R		94.9 / 93.8	94.2		90.8	870	Soft

Boat 312+65 S

Profile Notes Red KRK Plotted ____ Job No. 8962 Division No. X
No. ____ Date 4-6-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked ____ Survey by FHB Notes ES Date 3-5-53
No. ____ Date 4-6-53 Date ____ Map No. ____ Indexed Johnson Date ____
4-27-53

F. B. 12 98 249

76L298 307 4-50

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Profile No. X-Sec. No.

Plotted KRK Notes Red. KRK Date 4-6-53 Checked KRE Notes Chkd. KRE Date 4-6-53

Division No. K Job No. 8412 Notes ES Date Notes Date

Survey of BEACH EROSION STUDIES

Survey by FHB Notes ES

Indexed Q. Johnson Date

F.B. 1298 Pg. 250

STATION #	Color	Time	B.S.	H.I. Meas. Depth	F.S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
				88.7					
21	Y			86.9	87.5	3.4	84.1	838	
				78.2					
22	B & W	10:32		77.2	77.5	3.4	74.1	797	
				74.9					
23	R			73.2	73.8		70.4	750	
				67.3					
24	Y			66.0	66.4		63.0	710	
				63.2					
25	B & W	10:36		61.1	61.8	3.4	58.4	690	Transfer
				58.0					
26	R			56.7	57.1		53.7	662	to small sound-
				54.8					
27	Y			53.5	53.9		50.5	650	ing line
				50.8					
28	B & W	10:42		49.3	49.8	3.5	46.3	611	
				48.7					
29	R			47.3	47.8		44.3	590	
				41.8					
30	Y			40.5	40.9		37.4	580	Hard
				39.8					
31	B & W	10:46		38.5	38.9	3.5	35.4	569	bottom
				37.3					
32	R			36.0	36.4		32.9	554	
				35.5					
33	Y			34.5	34.8		31.3	550	
				32.7					
34	B & W	10:48		31.5	31.9	3.5	28.4	539	
				29.5					
35	R			28.5	28.8		25.3	520	
				27.8					
36	Y			27.7	27.1		23.6	510	
				26.9					
37	B & W	10.51		25.8	26.2	3.5	22.7	502	
				24.0					
38	R			22.9	23.3		19.8	477	
				22.4					
39	Y			21.0	21.5		18.0	453	
				19.5					
40	B & W	1053		18.2	18.6	3.5	15.1	428	

Boat 312+65

3-5-53

76L298 307 4-50

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312+65 Boat

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Distance	Remarks
41	R		17.7 16.5	16.9	3.5	13.4	396	
42	Y		16.3 14.5	15.1		11.6	373	
43	B&W	1055	14.6 12.5	13.2	3.5	9.7	352	
44	R		12.9 11.1	11.7		8.2	312	
45	Y		11.0 9.0	9.7		6.2	290	
46	B&W	10:58	8.8 7.9	8.2	3.5	4.7	269	
47	R		8.6 6.8	7.4		3.9	247	

Boat 312+65 S

Profile Notes Red KRK Plotted _____ Job No. 8412 Division No. ✓ F. B. 1298 Pg. 251
No. _____ Date 4-6-53 Date _____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. KRK Checked _____ Survey by FHB Notes EC Date 3-5-53
No. _____ Date 4-6-53 Date _____ Map No. _____ Date _____
4-27-53

F. B. 1298 Pg. 252

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

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

Survey by ____ Indexed ____

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

76L298 307 4-50

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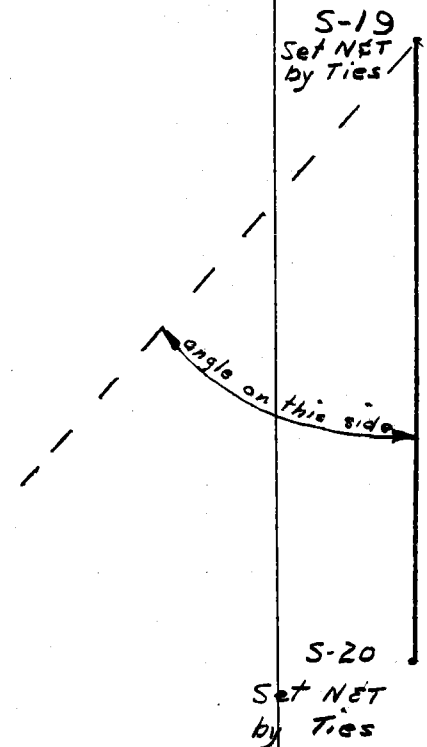
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	# Color	Time	Hor. Ang.	Remarks
5-19	5-20	1 B&W	11.16	71°00' ✓	Cut in 310+65
		2 R		70°02' ✓	
		3 Y		68°58' ✓	
		4 B&W	11.20+	67°50' ✓	
		5 R		66°43' ✓	
		6 Y		65°14' ✓	
		7 B&W	11.27	63°53' ✓	
		8 R		62°34' ✓	
		9 Y		61°11' ✓	
		10 B+W	11.31	60°21' ✓	
		11 R		57°52' ✓	
		12 Y		56°12' ✓	
		13 B+W	11.36	54°07' ✓	
		14 R		51°50' ✓	
		15 Y		49°43' ✓	
		16 B+W	11.41+	49°18' ✓	
		17 R		48°56' ✓	
		18 Y		48°21' ✓	
		19 B+W	11.45	48°09' ✓	
		20 R		47°56' ✓	



Cut In 310+65 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 12 98 Pg. 253
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 3-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1298 Pg. 254 | Job No. 8412 | Division No. V | Notes Red. | Plotted | Profile
Survey of BEACH EROSION STUDIES | Date | Date | No. | X-Sec.
Survey by FHB | Notes | Notes Chkd. | Checked | No.
Indexed K. O. Johnson | 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
5-19	5-20	21	Y		47°40'	✓ Cut in 310+65
		22	B+W	11.49+	47°54'	✓
		23	R		47°22'	✓
		24	Y		47°02'	✓
		25	B+W	11.51	47°32'	✓
		26	R		46°49'	✓
		27	Y		46°27'	✓
		28	B+W	11.53+	45°54'	✓
		29	R		45°30'	✓
		30	Y		44°27'	✓
		31	B+W	11.56	43°37'	✓
		32	R		42°50'	✓
		33	Y		41°32'	✓
		34	B+W	11.59	41°00'	✓
		35	R		39°42'	✓
		36	Y		38°21'	✓
		37	B+W	12.00	37°26'	✓
		38	R		35°04'	✓
		39	Y		34°05'	✓
		40	B+W	12.03+	32°42'	✓

Cut in 310+65

3-5-53

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	
S-19	S-20	41 R		31°29' ✓	Cut in	310+65
		42 Y		28°42' ✓		
		43 B+W	12.06	24°12' ✓		

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 12 98 Pg. 25
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 3-5-53
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

CUT IN 310+65 S

F. B. 1298 PG. 256

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.	Remarks
					Inst. Sight At OR # Color Time Hor. Ang.

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. Sight At On	#	Color	Time	Hor. Ang.		Remarks
306+65 S-20	41	R		33°56'	V	Cut in 312+65
	42	Y		32°70'	V	
	43	B&W	10 55	30°45'	V	
	44	R		27°52'	V	
	45	Y		26°09'	V	
	46	B&W	10 58	24°24'	V	
	47	R		22°37'	V	

Cut in 312+65 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V F. B. 12 Pg. No. 254
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes ____ Date 3-5-53
No. ____ Date ____ Date ____ Map No. ____ Kind of Johnson 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. 1298 Pg. 258

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

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

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

Indexed ____

76L298 307 4-50

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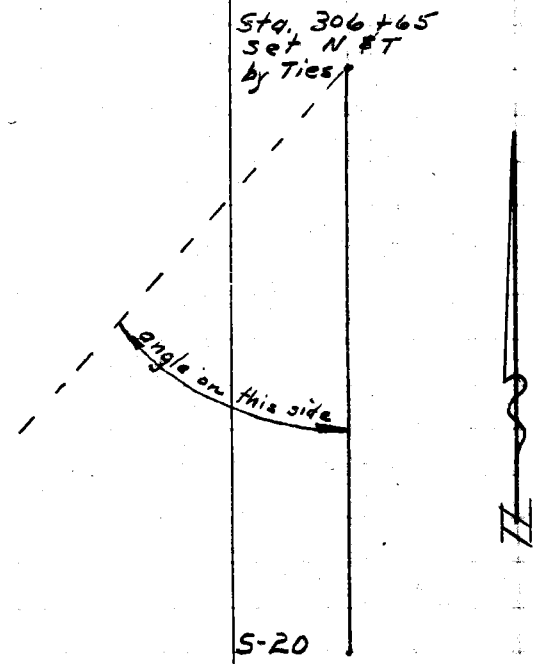
Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On		# Color	Time	Hor. Ang.		Remarks
306+65	S-20	1 B&W	9 46	72°04'	✓	Cut in 312+65
		2 R		71°15'	✓	
		3 Y		70°36'	✓	
		4 B&W	9 51	69°56'	✓	
		5 R		69°21'	✓	
		6 Y		68°50'	✓	
		7 B&W	9 57	68°17'	✓	
		8 R		67°57'	✓	
		9 Y		66°53'	✓	
		10 B&W	10 11	64°50'	✓	
		11 R		63°52'	✓	
		12 Y		63°01'	✓	
		13 B&W	10 16	62°23'	✓	
		14 R		61°52'	✓	
		15 Y		61°00'	✓	
		16 B&W	10 22	60°33'	✓	
		17 R		59°11'	✓	
		18 Y		58°06'	✓	
		19 B&W	10 27	56°51'	✓	
		20 R		55°32'	✓	



Cut in 312+65

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V F. B. 1V 90 pg. 259
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by EHB Notes R.G. Date 3-5-53
Date ____ Date ____ Map No. ____ 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
306+65	S-20	21	Y		54° 08'	✓	Cut in 312+65
		22	B&W	10 32	52° 48'	✓	
		23	R		51° 16'	✓	
		24	Y		49° 43'	✓	
		25	B&W	10 36	48° 52'	✓	
		26	R		47° 21'	✓	
		27	Y		47° 16'	✓	
		28	B&W	10 41	45° 34'	✓	
		29	R		44° 33'	✓	
		30	Y		44° 06'	✓	
		31	B&W	10 45	43° 28'	✓	
		32	R		42° 48'	✓	
		33	Y		42° 34'	✓	
		34	B&W	10 48	42° 12'	✓	
		35	R		41° 07'	✓	
		36	Y		40° 35'	✓	
		37	B&W	10 50	40° 08'	✓	
		38	R		38° 36'	✓	
		39	Y		37° 15'	✓	
		40	B&W	10 52	35° 36'	✓	

Cut In 312+65 S

7-5-53

F. B. 1298 Pg. 260 Job No. 8412 Division No. ✓ Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes R.6. Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line. 310+65 Boat

Profile No. ____ Notes Red. LCWC Plotted ____ Job No. 8412 Division No. Y F.B. 12-98
Date ____ Date 4-17-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. KRK Checked ____ Survey by FHB Notes ____ Date 3-3-53
Date ____ Date 4-27-53 Date ____ Map No. ____ Date ____

STATION #	Color	Time	H. I. Hors. Depth	F. S. Bottom	Tide	Adj. Depth	Distance	Remarks
			156.6					
1	B&W	11:17	155.4	155.8	3.6	152.2	138.7	Soft
			148.5					
2	R		147.5	147.8		144.2	135.6	
			141.7					
3	Y		140.2	140.7		137.1	126.7	
			133.8					
4	B&W	11:21	132.0	132.6	3.6	129.0	120.6	
			126.7					
5	R		125.5	125.9		122.3	114.0	
			119.7					
6	Y		118.5	118.9		115.3	106.6	
			115.2					
7	B&W	11:28	113.8	114.3	3.6	110.7	100.0	
			108.0					
8	R		106.2	106.8		103.2	95.7	
			101.6					
9	Y		100.4	100.8		97.2	90.9	
			95.0					
10	B&W	11:32	93.5	94.0	3.6	90.4	83.8	
			84.5					
11	R		83.5	83.8		80.2	79.4	
			78.0					
12	Y		76.9	77.3		73.7	73.0	
			70.0					
13	B&W	11:37	69.0	69.3	3.6	65.7	67.2	
			63.7					
14	R		62.8	63.1		59.5	62.7	
			55.8	55.0		51.4		
15	Y		54.0	~~54.0~~		~~51.0~~	58.0	
			53.8					
16	B&W	11:42	52.5	52.9	3.6	49.3	57.0	
			52.3					
17	R		51.1	51.5		47.9	56.0	
			49.9					
18	Y		49.3	48.8		45.2	55.0	
			47.6					
19	B&W	11:45	46.1	46.6	3.6	43.0	54.8	
			45.9					
20	R		44.3	44.8		41.2	54.2	

Boat 310+65 S

76L298 307 4-50

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310+65 Boat

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Distance	Remarks
			44.7					
21	Y		43.1	43.6	3.6	40.0	540	
			42.9					
22	B&W	11:50	41.9	42.2	3.6	38.6	543	
			41.4					
23	R		40.3	40.7		37.1	532	
			38.9					
24	Y		37.5	38.0		34.4	527	
			37.3					
25	B&W	11:52	35.8	36.3	3.5	32.8	527	
			35.8					
26	R		34.1	34.7		31.2	530	Hard Bottom
			34.0					
27	Y		31.9	32.6		29.1	516	
			30.4					
28	B&W	11:54	29.6	29.9	3.5	26.4	506	
			28.7					
29	R		27.3	27.8		24.3	492	
			26.4					
30	Y		25.2	25.6		22.1	480	
			24.8					
31	B&W	11:56	23.0	23.6	3.5	20.1	467	
			23.6					
32	R		21.7	22.3		18.8	452	
			21.0					
33	Y		20.0	20.3		16.8	432	
			20.3					
34	B&W	11:59	18.9	19.4	3.5	15.9	423	
			18.7					
35	R		17.2	17.7		14.2	407	
			17.7					
36	Y		15.8	16.4		12.9	388	
			15.9					
37	B&W	12:01	14.7	15.1	3.5	11.6	374	
			14.2					
38	R		13.1	13.5		10.0	342	
			13.7					
39	Y		12.0	12.6		9.1	330	
			11.7					
40	B&W	12:04	10.5	10.9	3.5	7.4	313	

Boat 310+65S

3-5-53

F. B. 1298 Pg. 262 Job No. 841 Division No. V Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date 4-17-53 Date No.
Survey by FHB Notes Notes Chkd. KRK Checked X-Sec.
Indexed C. Johnson Date Date 4-27-53 Date No.
Profile

Profile No. ____ Notes Red. LCW Plotted ____ Job No. 8412 Division No. V F.B. 1200 PG. 283
Date 4-17-53 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd. KRK Checked ____ Survey by FHB Notes ____ Date 2-5-53
Date 4-27-53 Date ____ Map No. ____ Indexed E. Johnson Date ____

Boat 310+65 S

310+65 Boat

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STATION	B.S.	H.I.	F.S.	ELEV.	Adj. Depth	Distance	Remarks
#	Color	Time	Depth	Bottom Tide			
41	R	10.7	3.6	3.5	6.1	30.0	
42	Y	9.9	8.2	3.5	4.7	26.9	
43	B&W	7.8	7.1	3.5	3.6	22.0	
		7.9					
		6.7					

761298 307 4-50

F. B. 1298 Pg. 264 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

Survey by O. Johnson | Notes | Notes Chkd. | Checked | X-Sec.

Indexed | Date | Date | Date | No.

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

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TBL298 307 4-50

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 RANGE 308+65 S
308+65	S-20 1	B+W	12:30	90° 00'	✓	
	2	R		89° 38'	✓	
	3	Y		89° 24'	✓	
	4	B+W	12:36	90° 00'	✓	
	5	R		89° 12'	✓	
	6	Y		89° 45'	✓	
	7	B+W	12:41	90° 00'	✓	
	8	R		90° 00'	✓	
	9	Y		89° 27'	✓	
	10	B+W	12:45	89° 33'	✓	
	11	R		90° 00'	✓	
	12	Y		90° 00'	✓	
	13	B+W	12:50	89° 15'	✓	
	14	R		90° 00'	✓	
	15	Y		88° 48'	✓	
	16	B+W	12:59	90° 00'	✓	
	17	R		90° 00'	✓	
	18	Y		90° 00'	✓	
	19	B+W	1:02	90° 00'	✓	
	20	R		90° 00'	✓	

RANGE 308+65 S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1298 Pg. 265
Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by BLACHARD Notes JS Date 3-5-53
Date ____ Date ____ Map No. ____ 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 RANGE 308+65-S
308+65	S-20	21	Y		90°00'	✓	
		22	B+W	1:04	90°00'	✓	
		23	R		90°00'	✓	
		24	Y		90°00'	✓	
		25	B+W	1:06	90°00'	✓	
		26	R		90°00'	✓	
		27	Y		90°00'	✓	
		28	B+W	1:09	90°00'	✓	
		29	R		90°00'	✓	
		30	Y		90°00'	✓	
		31	B+W	1:12	90°00'	✓	
		32	R		90°00'	✓	
		33	Y		90°00'	✓	

RANGE 308+65S

F. B. 1298 Pg. 266 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of BEACHEROSION STUDIES Date ____ Date ____ No. ____
Survey by FHB Notes JS Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed [redacted] Date ____ Date ____ No. ____

76L298 307 4-50

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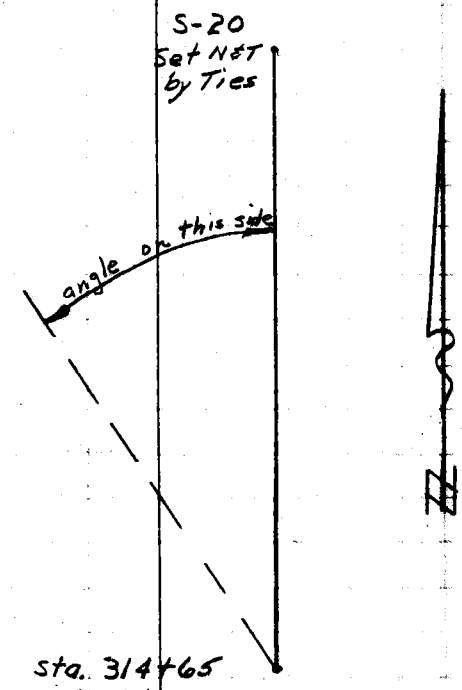
Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1298 Pg. 267
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by [redacted] Notes R.G. Date 3-5-53
Date ____ Date ____ Map No. ____ [redacted] Date ____

STATION At	B. S. Inst. Sight On	H. I. #	Color	Time	F. S.	ELEV. Hor. Ang.		Remarks
314+65	S-20	1	B&W	12 30		71° 03'	✓	Cut in 308+65
		2	R			69° 43'	✓	
		3	Y			68° 35'	✓	
		4	B&W	12 36		66° 13'	✓	
		5	R			65° 36'	✓	
		6	Y			63° 55'	✓	
		7	B&W	12 42		61° 56'	✓	
		8	R			60° 16'	✓	
		9	Y			58° 26'	✓	
		10	B&W	12 46		56° 10'	✓	
		11	R			53° 40'	✓	
		12	Y			51° 30'	✓	
		13	B&W	12 51		50° 12'	✓	
		14	R			48° 15'	✓	
		15	Y			47° 15'	✓	
		16	B&W	12 59		46° 18'	✓	
		17	R			45° 58'	✓	
		18	Y			45° 03'	✓	
		19	B&W	1 02		44° 05'	✓	
		20	R			43° 17'	✓	



CUT IN 308+65

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
314+65	S-20	21	Y		42° 39'	✓	Cut in 308+65
		22	B & W	1 04	41° 42'	✓	
		23	R		40° 53'	✓	
		24	Y		40° 05'	✓	
		25	B & W	1 07	39° 03'	✓	
		26	R		37° 10'	✓	
		27	Y		35° 42'	✓	
		28	B & W	1 10	33° 54'	✓	
		29	R		32° 12'	✓	
		30	Y		30° 22'	✓	
		31	B & W	1 12	28° 39'	✓	
		32	R		25° 52'	✓	
		33	Y		22° 53'	✓	

CUT IN 308+65 S

F. B. 1298 Pg. 268
Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by FHB Notes RG Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date Date No.

76L298 307 4-50

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STATION #	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom Elev	ELEV.	Adj. Depth	Distance	Remarks
				1588					
1	B&W	12:31		1570	1576	33	1543	1468	Stangeland Pcp
				1483			1437		
2	R			1463	1410		1337	1350	Anderson Fallw
				1440					
3	Y			1430	1433		1400	1282	Shoemaker Notes
				1310					
4	B&W	12:37		1298	1302	33	1269	1180	Soft
				1224					
5	R			1212	1216		1183	1116	
				1122					
6	Y			1107	1112		1079	1047	
				1006					
7	B&W	12:42		990	995	33	962	992	
				910					
8	R			878	902		869	920	
				840	832				
9	Y			778	~~834~~		799	890	
				772					
10	B&W	12:46		754	760	32	728	798	
				692					
11	R			680	684		652	738	
				610					
12	Y			598	602		570	681	
				538					
13	B&W	12:52		523	528	32	496	674	
				439					
14	R			448	452		420	612	
				425					
15	Y			413	417		385	598	
				403					
16	B&W	1:00		393	396	32	364	592	
				370					
17	R			360	363		331	584	
				340					
18	Y			330	338		301	550	
				300					
19	B&W	1:03		290	[illegible]	31	262	530	
				270					
20	R			[illegible]	[illegible]		[illegible]	519	

No. _____ Date _____ Notes Child _____ Date _____ Sheet No. _____

No. _____ Date _____ Notes Red _____ Date _____ Checked _____ Date 4-27-53

Profile _____ Plotted _____ Date _____

Notes Red. KRK Date 4-7-53 Plotted Date
Notes Chkd. KRK Date 4-27-53 Checked Date
Profile No. X-Sec. No.

LOS ANGELES

#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Distance	Remarks
21	Y		26.4 / 25.5	25.8	3.1	22.7	506 Soft Bottom
22	B & W	1:05	24.6 / 23.5	23.9	3.1	20.8	489
23	R		22.7 / 21.3	21.8		18.7	476
24	Y		21.3 / 20.2	20.6		17.5	461 Hard Bottom
25	B & W	1:07	20.3 / 18.9	19.4	3.1	16.3	446
26	R		17.3 / 16.2	16.6		13.5	417 Continued in FB 1899
	Y		16.9 / 15.2	15.5		12.4	393
	[illegible]	1:10	14.6 / 13.8	14.1	3.1	11.0	370
	[illegible]		13.0 / 12.0	12.3		9.2	359
	[illegible]		11.3 / 10.3	10.6		7.5	320
	[illegible]	1:13	10.5 / 8.5	9.2	3.1	6.1	299
	[illegible]		[illegible]	7.7		4.6	262
	[illegible]		[illegible]	6.1		3.0	226