LOS A[redacted]
726 Los [redacted]

STATION	B. S.	H. I.	F. S.	ELEV.		
205+00	0.83	17.36		16.53	L&T in walk	FB 1284 - 11; 179
8° L			1.0	16.4	edge of walk	(on walk)
8° L			1.5	15.9	" " "	(on sand)
38 L			1.5	15.9	on sand	SHORE ∡ 90°
82 L			4.0	13.4	" "	
123 L			4.3	13.1	" "	
166 L			6.7	10.7	" "	
T.P. ① 181 L	1.3	11.3	7.4	10.0	T.P. 1x2 fl. w. sand	
200 LT.			3.0	~~8.0~~ 8.3		
248			6.6	4.7		
300 T.P.	2.4	4.5	9.2	2.1	T.P.	Water
367 LT			4.8	-0.3		Ocean Floor
400 "			6.0	-1.5		" "
443			7.8	-3.3		" "
468			8.5	-4.0		" "
524			8.9	-4.4		" "
557			9.7	-5.2		" "

(16)

SHORE
205+00 S

Profile
No. ____ Notes Red. ____ Plotted ____ Job No. 84 12 Division No. V
Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. Lowe Checked ____ Survey by Wal Notes RJM & C.V.O. Date 7/19/51
Date 8-10-51 Date ____ Map No. ____ Engineer Johnson Date 7-21-51

76L298 307 5-49

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.		
200+00	1 17	17 82		16 65	7.8T in walk ~ F.B. 1284-11; 180	
7.9 L			1 4	16 4	edge of walk	on walk
7.9 L			1 6	16 2	" " "	on sand
50 L			1 8	16 0	on sand	SHORE ∡ 90°
130 L			5 2	12 6	" "	
175 L			7 3	10 5	" "	
T.P. 190 L	2 7	12.0	8 5	7 3	T.P. 1x1 ft w. sand	
235			7 3	4 7		
273 T.P.	2 9	5.9	9 0	[illegible]	T.P.	Water
379			6 4	-[illegible]	OCEAN	FLOOR.
421			8 1	-[illegible]	"	"
454			9 1	-[illegible]	"	"
521			9 3	-[illegible]	"	"
540			10 2	-[illegible]	"	"
565			10 8	-4 [illegible]	"	"

SHORE 200+00 S

F.B. 1295 PG. 8 62

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

Survey of Beach Erosion Studies Date Date X-Sec.

Survey by C. V. CRUMLEY Notes RJM & C.V.C. Notes Chkd. [illegible] Checked No.

Indexed C. Johnson Date 7-6/9-51 Date 8-10-51 Date

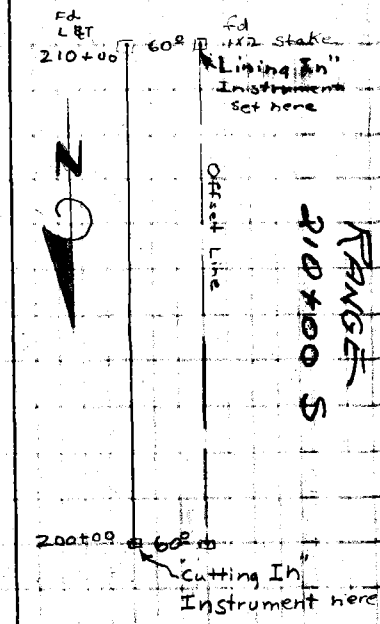
FORM 307 10M 10-46

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
210+00	200+00	1	R&Y	7:28	89°01	
(60' off)	(60' off)	2	R		89°23	
		3	Y		89°00	
		4	R&Y	7 35⁵	89°43	
		5	R		89°55	
		6	Y		89°53	
		7	R&Y	7:41	89°30	
		8	R		89°35	
		9	Y		89°25	
		10	R&Y	7 47⁵	89°26	
		11	R		89°58	
		12	Y		89°38	
		13	R&Y	7 53	89°21	
		14	R		89°28	
		15	Y		90°05	
		16	R&Y	7 58⁵	89 17	
		17	R		89°45	
		18	Y	8.02	90°04	



Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Survey of Beach Erosion Studies
Survey by F.H.B. Notes M.S. Date 7-9-51
Map No. ____ Indexed Johnson Date ____

Pg. 9

FORM 30 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	
205+00	195+00	1	R & Y	8 11	89°56		
		2	R		89 26		
		3	Y		89 41		
		4	R & Y	8 20	89 54		
		5	R		89 49		
		6	Y		89 49		
		7	R & Y	8 25	89 52		
		8	R		89 43		
		9	Y		89 51		
		10	R & Y	8 28	89 55		
		11	R		90 13		
		12	Y		90°11		
		13	R & Y	8 31	89 48		
		14	R		89 54		
		15	Y		90 01		
		16	R & Y	8 34	90 01		
		17	R	8 36	89 58		

RANGE 205+00 S

F.B. 1295 Pg. 10 ②

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

Survey of Beach Erosion Studies Date 7-9-51 Date — No. — X-Sec.

Survey by F.H.B. Notes M.S. Notes Chkd — Checked — Date — No.

Indexed A. C. Johnson Date — Date

76L298 307 4-50

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
200+00	210+00	1	R-Y	7:28	58°-38'	
		2	R		57°-53'	
		3	Y		55°-50'	
		4	R-Y	7:36	54°-09'	
		5	R		51°-43'	
		6	Y		50°-56'	
		7	R-Y	7:41	50°-27'	
		8	R		49°-40'	
		9	Y		48°-31'	
		10	R-Y	7:47.5	45°-07'	
		11	R		43°-18'	
		12	Y		42°-38'	
		13	R-Y	7:53	41°-55'	
		14	R		40°-33'	
		15	Y		38°-42'	
		16	R-Y	7:58	36°-52'	
		17	R		35°-20'	
		18	Y	8:02	33°-42'	

CUT IN
210+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1295 Pg. 11
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes J.M. Date 7-9-51
No. ____ Date ____ Date ____ Map No. ____ 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.

F. B. 1295 PG. 72 Job No. 2412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E.H. Blanchard Notes J. Maldonado Notes Chkd. Checked X-Sec.
Indexed E. C. Johnson Date 7-7-51 Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
195+00	205+00	1	R-Y	8:12	5[illegible]	✓	
		2	R		5[illegible]	✓	
		3	Y		5[illegible]	✓	
		4	R-Y	8:20	5[illegible]	✓	
		5	R		5[illegible]	✓	
		6	Y		4[illegible]	✓	
		7	R-Y	8:[illegible]	4[illegible]	✓	
		8	R		4[illegible]	✓	
		9	Y		[illegible]	✓	
		10	R-Y	8:28	4[illegible]	✓	
		11	R		4[illegible]	✓	
		12	Y		41	✓	
		13	R-Y	8:31	4[illegible]	✓	
		14	R		38	✓	
		15	Y		[illegible]	✓	
		16	R-Y	[illegible]	3[illegible]	✓	
		17	R	8:36	3[illegible]	✓	

CUT IN 205+00S

76L298 307 4-50

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

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Do not extend notes this side of this line.

STATION 210+00S | B. S. | H. I. | F. S. | ELEV.

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	RY	7:27 0627	27.0 25.5 27.5	26.0	0.9	25.1	
2	R		24.5 25.0	25.5		24.6	
3	Y		23.0 24.0	23.7		22.8	
4	RY	7:35 0635	22.0 23.6	22.7	0.9	21.8	
5	R		21.0 23.3	21.9		21.0	
6	Y		20.0 22.0	21.1		20.2	
7	RY	7:40 0640	19.0 21.5	20.0	0.9	19.1	
8	R		18.0 20.8	19.2		18.3	
9	Y		17.0 18.5	18.3		17.4	
10	RY	7:47 0647	15.5 16.0	16.5	0.9	15.6	
11	R		14.0 15.0	14.7	0.9	13.8	
12	Y		13.0 14.8	13.7	1.0	12.7	
13	RY	7:52 0652	12.0 12.5	12.9	1.0	11.9	
14	R		10.5 11.5	11.2		10.2	
15	Y		9.0 11.0	9.8		8.8	
16	RY	7:57 0657	8.0 10.0	9.0	1.0	8.0	
17	R		7.0 8.0	8.0		7.0	
18	Y	8:01 0701	6.0	6.7	1.0	5.7	
19	RY						
20	R						

BOAT
210+00S

Profile Notes Red. LAW Plotted T.M.I. Job No. 8412 Division No. V
No. Date 8-10-51 Date 8-24-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.I. Checked LAW Survey by F.H.B. Notes E.R.K. Date 7-9-51
No. Date 8-20-51 Date 8-24-51 Map No. Sheet Johnson Date

F. B. 1295 PG. 13

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 205+00 S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	RY	8:11 0711	28.0 25.8 27.0	26.5	1.1	25.4	
2	R		24.6 26.8	25.4	1.1	24.3	
3	Y		23.5 25.0	24.6	1.2	23.4	
4	RY	8:19 0719	22.5 23.8	23.3	1.2	22.1	
5	R		21.5 23.0	22.3		21.1	
6	Y		20.5 21.3	21.3		20.1	
7	RY	8:24 0724	19.5 21.0	20.1	1.2	18.9	
8	R		18.0 18.1	19.0		17.8	
9	Y		16.8 17.2	17.2		16.0	
10	RY	8:27 0727	15.2 16.2	15.9	1.3	14.6	
11	R		14.2 15.5	14.9		13.6	
12	Y		13.0 14.5	13.8		12.5	
13	RY	8:30 0730	11.5 13.5	12.5	1.3	11.2	
14	R		10.5 11.2	11.5		10.2	
15	Y		9.0 10.8	9.7		8.4	
16	RY	8:34 0734	7.8 10.5	8.8	1.3	7.5	
17	R	8:35 0735	6.8	8.0	1.3	~~5.7~~ 6.7	BOAT 205+00 S
18	Y						
19	RY						
20	R						

F. B. 1295 PG. 14 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 Vollnogle Notes Chkd. T.M.I. Checked
Indexed R. C. Johnson Date 7-9-51 Date 8-22-51 Date No.

76L298 307 5-49

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.		
195+00	129	18 14		1685	F.B. 1284 - L & T in strand walk	
7.9 L			15	166	edge of walk on walk	
7.9 L			17	164	" " " on sand	
85 L			45	136	on sand	SHORE ∡ 90°
140 L			56	125	" "	
175 L			76	105	"	
T.P. 210 L	20	86	115	66	T.P. 1x2 fl. w. sand	
231 LT.			39	47	WATER.	
285 "			68	18	OCEAN FLOOR	
300 T.P.	40	51	75	11	T.P. "	"
345 LT			60	-0.9	"	"
421 "			80	-29	"	"
466			97	-46	"	"
520			116	-65	"	"
(B)						

SHORE 195+00 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. 63 F.B. 1295 PG. 15
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (HERMOSA)
Notes Chkd. [illegible] Checked ____ Survey by C.V. CRUMLEY Notes C.V.C. Date 7-9-51
Date 8-10-51 Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 5-49

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.		
190+00	2 11	19 06		16 95	L & T in Strand Walk ~ FB1284-11	
9° L			2 4	16 7	edge of walk on walk	
9° L			2 7	16 4	" " " on sand	
47 L			1 7	17 4	on sand	SHORE ∡ 90°
112 L			5 0	14 1	" "	
180 L			8 1	11 0	" "	
T.P. 204 L	2 8	15 9	11 0	8 1	T.P. 1x2 ft. on sand	
241 "			6 2	4 7	WATER.	
250 T.P.	2 8	6 9	6 8	4 1	T.P. OCEAN	FLOOR
306 "			5 8	[illegible]	"	"
36[illegible] "			8 4	-1 [illegible]	"	"
399 "			9 5	-2 [illegible]	"	"
457 "			9 7	-2 [illegible]	"	"
497 "			10 7	-3 [illegible]	"	"
520 "			11 4	-4 [illegible]	"	"

SHORE 190+00 S

F.B. PG. 76 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES (HERMOSA) Date Date X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd [illegible] Checked No.
Indexed A. C. Johnson Date 7-9-51 Date 8-10-51 Date

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
200+00	210+00	1	R&Y	8.47^5	90°23'	
		2	R		90°07	
		3	Y		90°35	
		4	R&Y	9:00	90°27	
		5	R		90°55	
		6	Y		90°36	
		7	R&Y	9:03^5	90°45	
		8	R		90°28	
		9	Y		90°28	
		10	R&Y	9:09	89°56	
		11	R		90°28	
		12	Y		90°39	
		13	R&Y	9:12^5	90°01	
		14	R		90°32	
		15	Y		90°20	
		16	R&Y	9:15	90°14	
		17	R		90°27	
		18	Y	9:18^5	92°32	

RANGE
200+00 S

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. Notes Chkd. ____ Checked ____ Survey of Beach Erosion Studies
No. ____ Date ____ Date ____ Survey by F.H.B. Notes M.S. Date 7-9-51
Map No. ____ Indexed ____ Date ____

F.B. 1295 PG. 17

FORM 301 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	
195+00	205+00	1	R & Y	9:30	90°24		
		2	R		90°16		
		3	Y		90°19		
		4	R & Y	9:39	90°43		
		5	R		[illegible]		
		6	Y		[illegible]		
		7	R & Y	9:45	90°06		
		8	R		90°03		
		9	Y		89°44		
		10	R & Y	9:47	89°43		
		11	R		90°23		
		12	Y		90°17		
		13	R & Y	9:50	90°21		
		14	R		89°46		
		15	Y		89°57		
		16	R & Y	9:53	89°51		
		17	R		89°52		
		18	Y	9:55	89°52		

RANGE 195+00S

F.B. 129 Pg. 18 (A) Job No. 8412 Division No. V Notes Red — Plotted — No. — Profile
Survey of Beach Erosion Studies Date 7-9-51 Date — X-Sec.
Survey by F.H.B. Notes M.S. Notes Chkd. — Checked — No.
Indexed A. C. Johnson Date — Date — Date

76L298 307 4-50

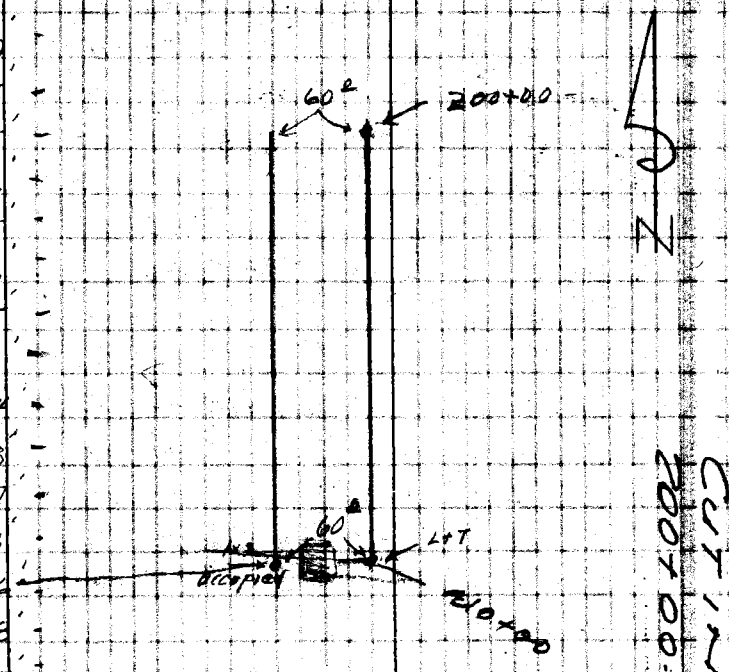
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
210+00	200+00	1	R-Y	8:48.5	57°-49'
		2	R		54°-50'
		3	Y		52°-15'
		4	R-Y	8:59	48°-55'
		5	R		47°-06'
		6	Y		45°-45'
		7	R-Y	9:03	44°-16'
		8	R		43°-15'
		9	Y		41°-31'
		10	R-Y	9:09	41°-54'
		11	R		40°-18'
		12	Y		37°-57'
		13	R-Y	9:12	38°-03'
		14	R		36°-26'
		15	Y		34°-28'
		16	R-Y	9:15	32°-55'
		17	R		27°-54'
		18	Y	9:19	24-13'

Remarks



Notes Red ____ Plotted ____ Job No. 2412 Division No. V
Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd ____ Checked ____ Survey by F.H.S. Notes J.M. Date 7-9-51
Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
205+00	195+00	1	R-Y	9:30	5[illegible]-43	
		2	R		54-11	
		3	Y		5[illegible]-21	
		4	R-Y	9:38	5[illegible]-04	
		5	R		4[illegible]-12	
		6	Y		46-57	
		7	R-Y	9:45	46-31	
		8	R		45-18	
		9	Y		44-33	
		10	R-Y	9:47.5	44-00	
		11	R		41-55	
		12	Y		41-10	
		13	R-Y	9:50	40-31	
		14	R		3[illegible]-39	
		15	Y		38-[illegible]	
		16	R-Y	9:53	36-44	
		17	R		3[illegible]-32	
		18	Y	9:55	31-08	

CUT IN 195+00

F. B. 1295 Pg. 20 Job No. 8412 Division No. V Notes Red Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E.H. Blanchard Notes J. Maldonado Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date 7-9-51 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 200+00 S

#	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
				28.5				
1	RY	8:47		26.0	26.8	1.5	25.3	
		0747		27.8				
2	R			25.0	25.9	1.5	24.4	
				26.6				
3	Y			24.0	24.9	1.6	23.3	
				24.8				
4	RY	8:59		22.6	23.3	1.6	21.7	
		0759		23.7				
5	R			21.4	22.2		20.6	
				? - 22.6	22.5		20.9	
6	Y			20.9	20.5 ?		18.9 ?	
				21.4				
7	RY	9:03		19.4	20.1	1.6	18.5	
		0803		18.9				
8	R			17.9	18.2	1.6	16.6	
				16.3				
9	Y			16.5	17.1	1.7	15.4	
				18.4				
10	RY	9:08		15.5	16.5	1.7	14.8	
		0808		16.8				
11	R			14.2	15.1		13.4	
				15.5				
12	Y			13.0	13.8		12.1	
				13.8				
13	RY	9:12		12.0	12.6	1.7	10.9	
		0812		13.0				
14	R			11.0	11.7		10.0	
				11.5				
15	Y			9.8	10.4		5.7	
				12.8			7.5	
16	RY	9:15		8.5	9.3	1.8	[illegible]	
		0815		10.5				
17	R			7.5	8.5		6.1	
				8.5				
18	Y	9:18		6.0	6.8	1.8	5.0	
		0818						
19	RY							
20	R							

BOAT
200+00 S

Profile No. ____ Notes Red. Chuck Plotted ____ Job No. 8412 Division No. V
Date 8-10-51 Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. TMI Checked ____ Survey by F.H.B. Notes F.R.V. Date 7-9-51
Date 8 20 51 Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1295 PG. 21

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 195+00S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	RY	9:29 0829	29.2 26.6 27.5	27.5	1.9	25.6 ~~23.8~~	
2	R		25.2 26.6	26.0	1.9	24.1	
3	Y		24.0 24.7	24.9	2.0	22.9	
4	RY	9:38 0838	23.0 23.5	23.6	2.0	21.6	
5	R		21.5 22.1	22.2	2.0	20.2	
6	Y		20.0 21.2	20.7	2.1	18.6	
7	RY	9:45 0845	19.0 19.5	19.7	2.1	17.6	
8	R		18.0 19.0	18.5		16.4	
9	Y		16.8 18.0	17.5		15.4	
10	RY	9:46 0846	15.8 16.5	16.5	2.1	14.4	
11	R		14.3 15.2	15.0		12.9	
12	Y		13.3 14.0	13.9		11.8	
13	RY	9:49 0849	12.3 13.0	12.9	2.1	10.8	
14	R		11.0 12.5	11.7	2.1	9.6	
15	Y		10.0 10.8	10.8	2.2	8.6	
16	RY	9:53 0853	9.0 9.5	9.6	2.2	7.4	
17	R		8.0 9.0	8.5		6.3	
18	Y	9:55 0855	6.5	7.3	2.2	5.1	BOAT 195+00S
19	RY						
20	R						

F. B. 1295 PG. 22
Job No. 8412 Division No. V Notes Red. Low Plotted
Survey of Beach Erosion Studies Date 8-10-51 Date
Survey by F.H.B. Notes Vollnagle Notes Chkd. TMI Checked
Indexed K. C. Johnson Date 7-9-51 Date 8 20 51 Date
Profile No. X-Sec. No.

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. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
190+00	180+00	1	R&Y	10 115	89°27	
		2	R		89°23	
		3	Y		89°43	
		4	R&Y	10:16	89°17	
		5	R		89°33	
		6	Y		89 26	
		7	R&Y	10:19	89 33	
		8	R		89°59	
		9	Y		90°16	
		10	R&Y	10 20	89°37	
		11	R		89°46	
		12	Y		90°10	
		13	R&Y	10:23	90°01	
		14	R		90°33	
		15	Y		90°11	
		16	R&Y	10:26	89°54	
		17	R		89°37	
		18	Y		89°46	
		19	R&Y	10 30	89°57	

RANGE 190+00S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V (5) F.B. 1295 Pg. 23
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-9-51
No. ____ Date ____ Date ____ Map No. ____ Ended Johnson Date ____

FORM 301 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. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
185+00 180+00	1	R&Y	10:44	89°47		
	2	R		89°53		
	3	Y		89 46		
	4	R&Y	10:52	89 43		
	5	R		90°10		
	6	Y		89°16		
	7	R&Y	10:59	89°29		
	8	R		88°39		
	9	Y		89 45		
	10	R&Y	11:03	90 18		
	11	R		89°34		
	12	Y		89°50		
	13	R&Y	11:05	90°03		
	14	R		89°54		
	15	Y		90°11		
	16	R&Y	11 07	89°47		
	17	R		90°43		
	18	Y		90°05		
	19	R&Y	11:10	89 40		
	20	R		89 52		

RANGE 185+00 S

F.B. 129 PG. 24 (6)
Job No. 8412 Division No. V Notes Red — Plotted — No. — Profile
Survey of Beach Erosion Studies Date 7-9-51 Date — X-Sec.
Survey by F.H.B. Notes M.S. Notes Chkd — Checked — No.
Indexed A. C. Johnson Date — Date — Date

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
S-9 180+00	190+00	1	R-Y	10:11	56°-01'		
		2	R		54°-21'		
		3	Y		52°-37'		
		4	R-Y	10:16	50°-40'		
		5	R		49°-15'		
		6	Y		47°-06'		
		7	R-Y	10:18.5	45°-35'		
		8	R		44°-14'		
		9	Y		43°-03'		
		10	R-Y	10:20	43°-20'		
		11	R		42°-12'		
		12	Y		40°-49'		
		13	R-Y	10:23	39°-14'		
		14	R		37°-45'		
		15	Y		36°-57'		
		16	R-Y	10:26	34°-34'		
		17	R		33°-10'		
		18	Y		30°-09'		
		19	R-Y	10:30	27°-54'		

CUT IN 190+00S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1295 Pg. 25
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes J.M. Date 7-9-51
No. ____ Date ____ Date ____ Map No. ____ Indexed John 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	
S-9 180+00	S-10 185+00	1	R-Y	10:44	72 04		
		2	R		70 52		
		3	Y		67 [illegible]		
		4	R-Y	10:52	66 [illegible]		
		5	R		65 55		
		6	Y		64 24		
		7	R-Y	10:59	64 32		
		8	R		64 02		
		9	Y		63 15		
		10	R-Y	11:03	62 00		
		11	R		61 15		
		12	Y		60 07		
		13	R-Y	11:04.5	58 35		
		14	R		57 55		
		15	Y		56 34		
		16	R-Y	11:06	56 01		
		17	R		53 41		
		18	Y		51 40		
		19	R-Y	11:10	48 10		
		20	R		45 55		
		21	see page 33				

CUT IN 185+00S

F. B. 1295 PG. 26
Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E.H. Blanchard Notes J. Maldonado Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date 7-9-51 Date Date No.

76L298 307 4-50

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

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Do not extend notes this side of this line.

STATION 190+00 S

#	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
				28.7				
1	RY	10:10		26.5	27.2	2.5	24.7	
		0910		27.8				
2	R			25.5	26.3		23.8	
				26.2				
3	Y			24.3	24.9		22.4	
				25.1				
4	RY	10:16		23.0	23.7	2.5	21.2	
		0916		24.0				
5	R			22.0	22.7		20.2	
				22.5				
6	RY			21.0	21.5		19.0	
				21.0				
7	RY	10:18		19.9	20.3	2.6	17.7	
		0918		19.3				
8	R			18.0	18.4		15.8	
				18.0				
9	Y			17.0	17.3		14.7	
				17.1				
10	RY	10:20		16.0	16.4	2.6	13.8	
		0920		16.0				
11	R			14.9	15.3		12.7	
				15.1				
12	Y			13.9	14.3		11.7	
				13.8				
13	RY	10:22		12.6	13.0	2.6	10.4	
		0922		13.0				
14	R			11.5	12.0		9.4	
				12.1				
15	Y			10.5	11.0		8.4	
				10.9				
16	RY	10:25		9.5	10.0	2.6	7.4	
		0925		9.9				
17	R			8.5	9.0		6.4	
				9.8				
18	Y			7.6	8.3		5.7	
				8.8				
19	RY	10:29		6.6	7.3		4.7	
		0929						
20	R							

BOAT
190+00 S

Profile
Notes Red. E.C.M. Plotted EWL Job No. 8412 Division No. V F. B. 1295 PG. 27
No. Date 8-10-51 Date 8-24-51 Survey of Beach Erosion Study
X-Sec. Notes Chkd. T. M. Checked Survey by F.H.B. Notes E.R.K. Date 7-9-51
No. Date 8-20-51 Date Map No. Indexed Johnson 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 185+00S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	RY	10:43 0943	29.0 27.5 27.9	28.0	2.9	25.1	
2	R		26.6 27.0	27.0		24.1	
3	Y		25.3 25.7	25.9		23.0	
4	RY	10:51 0951	24.2 24.9	24.7	3.0	21.7	
5	R		23.1 22.9	23.7		20.7	
6	Y		21.9 22.0	22.2		19.2	
7	RY	10:58 0958	21.0 20.9	21.3	3.0	18.3	
8	R		19.9 20.4	20.2		17.2	
9	Y		18.9 19.7	19.4		16.4	
10	RY	11:02 1002	17.9 18.0	18.5	3.1	15.4	
11	R		16.8 16.9	17.2		14.1	
12	Y		15.6 15.1	16.0		12.9	
13	RY	11:04 1004	14.1 14.3	14.4	3.1	11.3	
14	R		13.1 13.1	13.5	3.1	10.4	
15	Y		12.1 12.8	12.4	3.2	9.2	
16	RY	11:06 1006	11.0 11.9	11.6	3.2	8.4	
17	R		10.0 10.3	10.6		7.4	
18	Y		9.0 9.1	9.4		6.2	
19	RY	11:09 1009	8.0 8.1	8.4	3.2	5.2	
20	R		7.0	7.4		4.2	

BOAT ~~Cut Int~~ 185+00S

21 — see page 35

F. B. 1295 Pg. 78 Job No. 8412 Division No. V Notes Red. LMW Plotted T.M.I Profile
Survey of Beach Erosion Studies Date 8-10-51 Date 8-24-51 No.
Survey by F.H.B. Notes Vellnagle Notes Chkd. TM.I Checked X-Sec.
Indexed A. C. Johnson Date 7-9-51 Date 8-20-51 Date No.

76L298 307 5-49

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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.

7.4
4.7
2.7

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
185+00	0 61	17 29		16 68	L & T in conc. Strand Walk	FB 1284-11
6 1 L			0 7	16 6	edge of walk	on walk
6 1 L			1 1	16 2	" " "	on sand
51 L			1 9	15 4	on sand	(SHORE ∡ 90°)
112 L			5 6	11 7	" "	
150 L			5 4	11 9	" "	
170 L			6 5	10 8	" "	
⊙ T.P. 200 L	0 6	7 4	10 5	6 8	1x2 T.P. fl. w. sand	
220' LT			2 7	4 7	WATER	
250 "			4 4	3 0	OCEAN	FLOOR
329 "			7 7	-0 3	"	"
390 "			10 4	-3 0	"	"
450 "			10 7	-3 3	"	"
512 "			11 7	-4 3	"	"

SHORE
185+00 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 841 Division No. V 65 F.B. 1294 Pg. 29
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. Lauer Checked ____ Survey by C. Vaughn Notes RMF & VC Date 7/9/51
Date 8-10-51 Date ____ Map No. ____ Sec. Chkd Johnson Date ____

76L298 307 9

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
180+00	189	1924		17 35	2.8 in Conc. Strand Walk	FB 1284-11
9 7 L			21	17 1	edge of walk on walk	
9 7 L			23	16 9	" " " on sand	(SHORE ∠ 90°)
55 L			20	17 2	on sand	
95 L			28	16 4	" "	
155 L			68	17 4	" "	
T.P. 180 L	20	113	99	9 3	T.P. 1x2 ft. w. T.P. sand	
220 T.P.	27	74	6.6	4 7	T.P. Water	
260 L			54	2 0	Beam Floor	
315 "			68	[illegible]	"	"
355 "			89	-1 5	"	"
412			96	-2 2	"	"
456			104	-3 0	"	"
489			110	-3 6	"	"

SHORE 0+00.5

Profile No. X-Sec. No.
Plotted Date
Notes Red. Date
Notes Chkd. Date
Checked Date
Job No. 8412
EACH EROSION STUDIES (VERMOSA)
V. CRUMLEY Notes C.V.C. R.J.M.
L. C. Johnson Date 9-5-51

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.

From Pg 24

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
185+00	180+00	21	Y	115	90 01	

RANGE
185+00 S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V (1) F.B. 1295 Pg. 31
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-9-51
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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	
180+00	90+00	1	R & Y	11:19	[illegible]		
		2	R		8[illegible]50		
		3	Y		90°18'		
		4	R & Y	11:26	90°15'		
		5	R		90°35		
		6	Y		90°01		
		7	R & Y	11:29	89°56		
		8	R		90°46		
		9	Y		90°23		
		10	R & Y	11:31	90°15		
		11	R		90°13		
		12	Y		90°24		
		13	R & Y	11:34	89°54		
		14	R		90°02		
		15	Y	11:36	90°12'		
		16	R & Y		90°06		
		17	R		90°49		
		18	Y		90°03		
		19	R &	11:39	90°47		

RANGE 180+00 S

F.B. 1215 PG. 32 Job No. 8412 Division No. Y Notes Red Plotted ⑧ Profile
Survey of Beach Erosion Studies Date 7-9-51 Date No. X-Sec.
Survey by F.H.B. Notes M S Notes Chkd Checked
Indexed A. C. Johnson Date Date Date No.

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

F. S. 1295 Pg. 33

Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey by F.H.R. Notes T.M. Date 7-9-51

Map No. _____ Indexed Johnson Date _____

CUT IN
185+00 S.

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

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

Do not extend notes this side of this line.

From Pg 26

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
180+00 185+00	21	Y	11:11.5	43°-30'	

761.298 307 4-50

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	
190+00	180+00	1	R-Y	11:19	56-35		
		2	R		55-20		
		3	Y		53-22		
		4	R-Y	11:26	51-34		
		5	R		49-03		
		6	Y		48-14		
		7	R-Y	11:29	47-04		
		8	R		45-14		
		9	Y		43-58		
		10	R-Y	11:31	41-46		
		11	R		42-03		
		12	Y		41-08		
		13	R-Y	11:34	39-55		
		14	R		38-08		
		15	Y		37-17		
		16	R-Y	11:36	35-18		
		17	R		32-43		
		18	Y		31-50		
		19	R-Y	11:39	29-08		
		20	R		26-32		

CUT IN 180+00S

21 Page 39

F.S. 1295 Pg. 24

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

Survey of Beach Erosion Studies Date Date No.

Survey by E.H. Blanchard Notes J. Maldonado Notes Chkd. Checked X-Sec.

Indexed H. C. Johnson Date 7-9-51 Date Date No.

Profile	Notes Red. Lew.	Plotted Lew.	Job No. 8412	Division No. V	F. B. 1295 Pg. 35
No.	Date 8-10-51	Date 8-24-51	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd. T.M.I	Checked	Survey by F.H.B	Notes E.R.V	Date 7-9-51
No.	Date 8-20-57	Date	Map No.	Indexed Johnson	Date

BOAT
~~180+00~~
185+00S

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

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

From Page 28

Do not extend notes this side of this line.

STATION 185+00S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
21	5	11:11	7.2 6.0	6.4	3.3	3.1	
		1011					

76L298 307 4-50

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 180+00S

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	RY	11:19 1019	29.0 28.0 28.1	28.3	3.3	25.0	
2	R		27.0 27.1	27.4	3.3	24.1	
3	Y		25.9 26.1	26.3	3.4	22.9	
4	RY	11:25 1025	24.9 25.0	25.3	3.4	21.9	
5	R		23.9 24.1	24.3	3.4	20.9	
6	Y		22.8 23.1	23.2	3.5	19.7	
7	RY	11:28 1028	21.7 22.1	22.2	3.5	18.7	
8	R		20.4 20.2	21.0		17.5	
9	Y		19.0 19.0	19.4		15.9	
10	RY	11:30 1030	17.9 17.9	18.3	3.5	14.8	
11	R		16.9 17.6	17.2		13.7	
12	Y		15.9 16.1	16.5		13.0	
13	RY	11:33 1033	14.9 14.5	15.3	3.5	11.8	
14	R		13.9 13.1	14.1	3.5	10.6	
15	Y		12.9 13.0	13.0	3.6	9.4	
16	RY	11:35 1035	11.7 11.9	12.1	3.6	8.5	
17	R		10.2 10.2	10.8		7.2	
18	Y		9.2 9.2	9.5		5.9	
19	RY	11:38 1038	8.2 8.3	8.5	3.6	4.9	
20	R		7.0	7.4		3.8	

BOAT 180+00S

21 See page 41

F. B. 1245 Pg. 36 Job No. 8412 Division No. V Notes Red. RCWC Plotted T.M.L. Profile
Survey of Beach Erosion Studies Date 8-10-51 Date 8-24-51 No.
Survey by E.H.B. Notes Vollnagle Notes Chkd. T.M.L. Checked X-Sec.
Indexed A. C. Johnson Date 7-9-51 Date 8-20-51 Date No.

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
		2D	R		90°18	
		~~22~~ 31	Y	11:41	89°46	

RANGE
180+005

Profile
No. ____ Date ____ Notes Red ____ Plotted LCW Job No. 8412 Division No. V
X-Sec. Date ____ Survey of Beach Erosion Studies
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by F.H.B Notes MS Date 7-9-51
Map No. ____ Date ____ Indexed ____ Date ____

F.B. 179 Pg. 37

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	
175+00	165+00	1	R & Y	6:49	89 55		
		2	R		89 31		
		3	Y		89 53		
		4	R & Y	7:00	88 56		
		5	R		89 40		
		6	Y		89 16		
		7	R & Y	7:05	89 56		
		8	R		89 54		
		9	Y		89 44		
		10	R & Y	7:12 5	90 12		
		11	R		89 31		
		12	Y		89 58		
		13	R & Y	7:19	89 27		
		14	R		89 27		
		15	Y		89 12		
		16	R & Y	7:25	88 56		
		17	R		89 54		
		18	Y	7:29	89 26		

RANGE 175+00 S

F.B. 1295 PG. 38 Job No. 8412 Division No. V Notes Red Plotted No. Profile
Survey of Beach Erosion Studies Date 7-10-51 Date X-Sec.
Survey by E.H.B. Notes M.S. Notes Chkd Checked No.
Indexed Date Date Date

Profile	Notes Red.	Plotted LCW	Job No. 8412	Division No. V	F. B. 1295 Pg. 39
No.	Date	Date 8-21-51	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B.	Notes J.M.	Date 7-9-51
No.	Date	Date	Map No. A. O. Johnson	Indexed	Date

CUT IN
180+00S

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

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

Do not extend notes this side of this line.

Fr. Page 34

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
190+00 180+00	21	Y	11:41	24-32	

76L298 307 4-50

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	
165+00	175+00	1	R-Y	6 49	55° 27'	-	
		2	R		54° 18'	-	
		3	Y		53° 40'	-	
		4	R-Y	7 00	51° 33'	-	
		5	R		49° 32'	-	
		6	Y		47° 26'	-	
		7	R-Y	7 05	45° 31'	-	
		8	R		43° 52'	-	
		9	Y		43° 53'	-	
		10	R-Y	7 12	41° 34'	-	
		11	R		40° 56'	-	
		12	Y		39° 00'	-	
		13	RY	7 19	38° 24'	-	
		14	R		36° 07'	-	
		15	Y		34° 50'	-	
		16	RY	7 26	33° 11'	-	
		17	R		32° 20'	-	
		18	Y	7 29	29 01	-	

CUT IN 175+00 S

F. B. 1295 PG. 40 Job No. 8412 Division No. Notes Red. Plotted DWP Profile
Survey of BEACH EROSION STUDIES Date 8-21-51 No.
Survey by Blanchard Notes SUTTER Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date 7-10-51 Date Date No.

Profile	Notes Red. LCW	Plotted Lew.	Job No. 8412	Division No. V	F. S. 1295 Pg. 41
No.	Date	Date 8-24-51	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd. FM 1	Checked	Survey by F.H.B.	Notes E.R.Y.	Date 7-9-51
No.	Date 8-20-51	Date	Map No.	Indexed A. O. Johnson	Date

BOAT
180+00S

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

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

Do not extend notes this side of this line.

from Page 36

STATION 180+00S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom Tide		Adj. Depth	Remarks
21	Y	11:41	7.2	6.4	3.6	2.8	
		10:41	6.0				

761.298 307 4-50

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. 1295 Pg. 42 Job No. 8412 Division No. V Notes Red. LEW Plotted T.M.L. Profile
Survey of Beach Erosion Studies Date 8-10-51 Date 8-24-51 No.
Survey by F.H.B. Notes Vellnagle Notes Chkd. TMI Checked X-Sec.
Indexed R. C. Johnson Date 7-10-51 Date 8-22-51 Date No.

STATION 175+00S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	RY	6:48 0548	28.2 26.5 27.2	27.1	1.4	25.7	
2	R		25.5 26.4	26.1		24.7	
3	Y		24.3 25.0	25.0		23.6	
4	RY	6:59 0559	23.3 23.3	23.9	1.4	22.5	
5	R		21.9 22.5	22.4		21.0	
6	Y		20.5 21.8	21.2		19.8	
7	RY	7:04 0604	19.3 19.0	20.1	1.4	18.7	
8	R		17.1 19.3	17.7		16.3	
9	Y		16.1 17.1	17.2		15.8	
10	RY	7:11 0611	15.1 15.9	15.8	1.4	14.4	
11	R		13.7 14.5	14.4		13.0	
12	Y		12.5 13.8	13.2		11.8	
13	RY	7:18 0618	11.3 12.1	12.1	1.4	10.7	
14	R		10.3 11.0	10.9		9.5	
15	Y		9.3 10.3	9.9		8.5	
16	RY	7:24 0624	8.3 11.0	9.0	1.4	7.6	
17	R		7.3 9.6	8.5		7.1	
18	Y	7:28 0628	6.4	7.5	1.4	6.1	
19	RY						
20	R						

BOAT 175+00S

76L298 307 5-49

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.		
175+00	009	18 09		18 00	L&T in conc. walk	F.B. 1284-11
5 5 L			02	17 9	edge of walk	on walk
5 5 L			03	17 8	" " "	on sand
35 L			05	17 6	on sand	(SHORE ∡ 90°)
85 L			33	14 8	" "	
~~T.P.~~ 130 L			55	12 6	~~T.P.~~ " "	
T.P. 190 L	0.7	54	13 4	4 7	T.P. 1x2 fl. w sand	
T.P.						
249 LT			45	0.9		~~Water~~
298 "			61	-0.7	Ocean	FLOOR
338 "			76	-2 2	"	"
384 "			79	-2 5	"	"
466 "			100	-4 6	"	"
507 "			108	-5 4	"	"

SHORE
175+00 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. V 67 F.B. 1298 Pg. 43
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies (HERMOSA)
Notes Chkd. [illegible] Checked ____ Survey by C.V. CRUMLEY Notes R.M. & C.V. Date 7.9.10, 1951
Date 8-10-51 Date ____ Map No. ____ Indexed E.G. Johnson Date ____

76L298 307 5-49

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.

13.1
6.5
66

13.1
4.7
8.4

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
170+00	0.21	17.87		17.66	this "+" in conc. walk	FB 128-4
9' L			0.5	17.4	edge of walk on walk	
9' L			0.5	17.4	" " on sand	
33 L			0.8	17.1	on sand	(SHORE ∡ 90°)
78 L			4.2	13.7	" "	
105 L			5.2	12.7	" "	
115 L		13.1	1.6	11.5	?	
T.P. 150 L	6.7	13.1	11.5	6.4	T.P. 1x2 fl. w. sand	
T.P. 170 LT	0.6	5.3	8.4	4.7	T.P.	
217 LT			3.8	1.5		Water
277 "			6.0	-0.7	ocean FLOOR	
319 "			7.5	-2.2	"	"
390 "			8.6	-3.3	"	"
447 "			9.5	-4.2	"	"
500 "			10.6	-5.3	"	"

SHORE 170+00 S

F.B. 129 PG. 3/4 Job No. 8412 Division No. V Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by C.V. CRUMLEY Notes RJM & C.V.C. Notes Chkd. Checked
Indexed A. C. Johnson Date 7-10-51 Date Date No.

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. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
170+00	S 8 (165+00)	1	R&Y	7:41	89°22	
		2	R		89°01	
		3	Y		89°44	
		4	R&Y	7:44	89°56	
		5	R		89°20	
		6	Y		89°56	
		7	R&Y	7:48	89°53	
		8	R		89°23	
		9	Y		89°26	
		10	R&Y	7:56	89°33	
		11	R		90°05	
		12	Y		89°42	
		13	R&Y	7:59	89°45	
		14	R		89°45	
		15	Y		89°40	
		16	R&Y	8:03	90°02	
		17	R		89°47	
		18	Y	8:06	89°44	

RANGE
170+00 S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V ②
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-10-51
Date ____ Date ____ Map No. ____ Indexed J. Johnson Date ____

F.B. 291 PG. 45

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	
S-8 165+00	152+50	1	R & Y	8:39	91°17		
		2	R		91°11		
		3	Y		91 31		
		4	R & Y	8:44	91 5		
		5	R		90 58		
		6	Y		9[illegible]01		
		7	R & Y	8 49 5	91°41		
		8	R		91 53		
		9	Y		92°05		
		10	R & Y	8 54	91°45		
		11	R		91°13		
		12	Y		90 58		
		13	R & Y	8 57	92°17		
		14	R		91 47		
		15	Y		91 01		
		16	R & Y	9:02	92 03		
		17	R		91 51		
		18	Y		92 [illegible]3		
		19	R & Y	9 10	9[illegible]6		

RANGE
165+00 S
S-8

F.B. 1295 Pg 16
Job No. 8412 Division No. V Notes Red Plotted
Survey of Beach Erosion Studies Date 7-10-51 Date No.
Survey by F.H.B. Notes M.S. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.
Profile

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	
	5-8						
160+00	165+00	1	R-Y	7 41	53° 52'	-	
		2	R		52° 39'	-	
		3	Y		50° 46'	-	
		4	R-Y	7 44	49° 08'	-	
		5	R		46° 51'	-	
		6	Y		46° 01'	-	
		7	R-Y	7 48	43° 35'	-	
		8	R		42° 51'	-	
		9	Y		41° 08'	-	
		10	R-Y	7 56	40° 21'	-	
		11	R		39° 15'	-	
		12	Y		37° 56'	-	
		13	R-Y	7 59	36° 33'	-	
		14	R		35° 14'	-	
		15	Y		33° 46'	-	
		16	R-Y	8 03	31° 37'	-	
		17	R		30° 08'	-	
		18	Y	8 06	28° 43'		

CUT IN
170+00S

Profile Notes Red. ____ Plotted RMK Job No. 8412 Division No. ____ F. B. 1295 Pg. 47
No. ____ Date ____ Date 8-21-51 Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes CBS Date 7-10-51
No. ____ Date ____ Date ____ Map No. 2 Indexed Johnson 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	
152+50 160+00 15' Offset	1	R-Y	8 39	46° 21'	-	
	2	R		44° 34'	-	
	3	Y		42° 38'	-	
	4	R-Y	8 44	41° 03'	-	
	5	R		39° 17'	-	
	6	Y		37° 17'	-	
	7	R-Y	8 49	36° 12'	-	
	8	R		35° 03'	-	
	9	Y		34° 10'	-	
	10	R-Y	8 54	33° 17'	-	
	11	R		32° 02'	-	
	12	Y		31° 20'	-	
	13	R-Y	8 57	29° 35'	-	
	14	R		28° 15'	-	
	15	Y		26° 47'	-	
	16	R-Y	9 02	25° 57'	-	
	17	R		24° 40'	-	
	18	Y		22° 08'	-	
	19	R-Y	9 10	21° 18'	-	

CUT IN 165+00 S

F. B. 1295 Pg. 48 Job No. 8412 Division No. Notes Red. Plotted Bow Profile
Survey of Beach Erosion Studies Date 8-21-51 No. X-Sec.
Survey by Blanchard Notes English Notes Chkd. Checked No.
Indexed E. C. Johnson Date Date Date

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 170+00		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	RY	7:40 0640	27.8 26.1 26.7	26.7	1.4	25.3	
2	R		25.0 26.0	25.6		24.2	
3	Y		24.0 24.8	24.7		23.3	
4	RY	7:44 0644	22.8 23.6	23.5	1.4	22.1	
5	R		21.7 22.3	22.3		20.9	
6	Y		20.5 22.0	21.1		19.7	
7	RY	7:48 0648	19.0 20.2	20.0	1.4	18.6	
8	R		18.1 19.2	18.8		17.4	
9	Y		17.0 18.1	17.7		16.3	
10	RY	7:55 0655	15.5 15.5	16.4	1.4	15.0	
11	R		14.7 16.1	15.0		13.6	
12	Y		13.3 14.1	14.2		12.8	
13	RY	7:59 0659	12.1 13.2	12.8	1.4	11.4	
14	R		11.1 13.4	11.8		10.4	
15	Y		10.1 11.3	11.2		9.8	
16	RY	8:02 0702	8.9 10.8	9.7	1.4	8.3	
17	R		8.0 10.8	8.9	1.4	7.5	
18	Y	8:06 0706	6.8	8.1	1.5	6.6	
19	RY						
20	R.						

BOAT
170+00 S

Profile No. ____ Notes Red T.M.L. Plotted RCW. Job No. 84 1/2 Division No. V
Date 8-19-51 Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd RCW. Checked ____ Survey by E.H.B. Notes E.A.V. Date 7-10-51
Date 8-10-51 Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 129 Pg. 49

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 165+00S	B. S.	H. I.	F. S.	ELEV.		
#	Color Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	RY	8:39 0739	27.9 26.1	26.7	1.5	25.2
2	R		26.0 24.1	24.7		23.2
3	Y		25.5 23.1	23.9		22.4
4	RY	8:44 0744	23.8 22.0	22.6	1.5	21.1
5	R		22.6 21.0	21.5	1.5	20.0
6	Y		20.8 19.5	19.9	1.6	18.3
7	RY	8:49 0749	20.3 18.5	19.1	1.6	17.5
8	R		19.1 17.5	18.0		16.4
9	Y		18.1 16.5	17.0		15.4
10	RY	8:53 0753	17.5 15.3	16.0	1.6	14.4
11	R		16.0 14.3	14.9		13.3
12	Y		15.3 13.1	13.8		12.2
13	RY	8:56 0756	14.9 12.1	13.0	1.6	11.4
14	R		13.5 10.9	11.8		10.2
15	Y		12.9 9.9	10.9		9.3
16	RY	9:01 0801	10.8 8.8	9.5	1.6	7.9
17	R		10.5 7.8	8.7	1.7	7.0
18	Y		8.6 6.8	7.4	1.7	5.7
19	RY	9:09 0809	8.3 6.3	7.0	1.7	5.3
20	R					

BOAT 165+00S

F.B. 1265 Pg. 50 Job No. 8412 Division No. V Notes Red Plotted T.M.L. Profile
Survey of Beach Erosion Studies Date 8-24-51 No.
Survey by F.H.B. Notes Vallmagle Notes Chkd Checked
Indexed A. C. Johnson Date 7-10-51 Date 8-10-51 Date No.

76L298 307 5-49

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.		
165+00	3.0	20.5		17.49	LAT = 5-8	5-8
45 LT			3.1	17.4	Edge Work	
55 "			35	17.0	Sand	(SHORE ∡ 90°)
22 LT			40	16.5	BRK.	
55 "			69	13.6	"	
79 "			82	12.3	"	
103 "			110	9.5	"	
109 T.P.	2.9	11.4	120	8.5 T.P.		
145 LT			67	4.7	WATER	
172 T.P.	3.5	6.1	8.8	2.6 T.P.	OCEAN	FLOOR
262 LT			69	-0.8	" "	"
322 "			89	-2.8	"	"
385 "			97	-3.6	"	"
450 "			104	-4.3	"	"

SHORE
165+00 S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 84.12 Division No. ____ F.B. 128 PG. 57
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDY
Notes Chkd. TM.1 Date 8-13-51 Checked ____ Date ____ Survey by EVG Notes C.Y.C. Date 7-10-51
Map No. ____ Indexed Johnson Date ____

76L298 307 5-49

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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.		
160+00	1.6	19.1		1[illegible]8	F.B. 1284-10 CROSS IN WALK	
5 LT.			1.7	1[illegible]4	Edge WALK.	
6 "			2.1	1[illegible]	Beach	(SHORE ∡ 90°)
33 "			4.2	1[illegible]	"	
85 "			7.3	11[illegible]	"	
116 T.P.	2.6	10.2	11.5	[illegible]6	T.P. "	
146 T.P.	1.5	6.2	5.5	4.7	T.P. Water	
201 LT.			5.3	[illegible]9	OCEAN	FLOOR
255 "			7.1	-[illegible]9	"	"
332 "			8.2	-2[illegible]	"	"
382 "			9.4	-3[illegible]2	"	"
412			10[illegible]	-[illegible]8	"	"
432			10.8	-4.6	"	"
456			11.7	-5.5	"	"

SHORE 160+00 S

F.B. 1294 PG. 52

Job No. 8416 Division No. Notes Red. Plotted No. Profile

Survey of BEACH EROSION STUDIES (HERMOSA) Date Date X-Sec.

Survey by C.V.C. Notes C.V.C. Notes Chkd. T.M.I. Checked No.

Indexed A. C. Johnson Date 7-10-57 Date 8-13-57 Date

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
160+00	152+50	1	R&Y	9:18	88°09	
		2	R		89°44	
		3	Y		89°34	
		4	R&Y	9:22	88°26	
		5	R		89°05	
		6	Y		89°32	
		7	R&Y	9 27	89 23	
		8	R		89 21	
		9	Y		89°10'	
		10	R&Y	9:32	89°47'	
		11	R		89°21'	
		12	Y		89°04'	
		13	R&Y	9:35	89°37'	
		14	R		89°47	
		15	Y		90°01	
		16	R&Y	9 38	90°40	
		17	R	9 42	89°13	

RANGE
160+00 S

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V (4) F.B. 128 PG. 53
X-Sec. Date ____ Date ____ Survey of Beach Erosion Studies
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by F.H.B. Notes M S Date 7-10-51
Map No. ____ Date ____ Indexed ____ Date ____

FORM 307 10M 10-46

PLEASE RETURN TO
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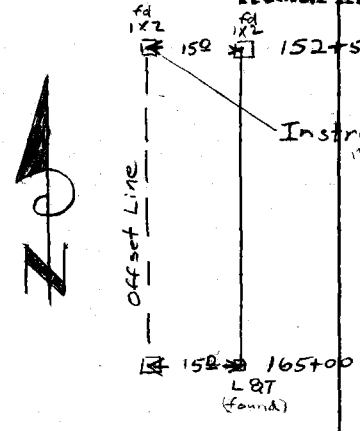
700 HALL OF RECORDS

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 152+50	Sight On 165+00	#	Color	Time	Hor. Ang.	Remarks
15' OFF	15' OFF	1	R & Y	10:12	88 59	
		2	R		89 10	
		3	Y		88 55	
		4	R & Y	10:18	89 37	
		5	R		89 11	
		6	Y		88 59	
		7	R & Y	10:23	89 51	
		8	R		89 03	
		9	Y		89 02	
		10	R & Y	10:26	89 06	
		11	R		88 58	
		12	Y		89 58	
		13	R & Y	10:30	89 17	
		14	R		89 29	
		15	Y		89 53	
		16	R & Y	10:35	89 16	
		17	R	10:37	89 06	



RANGE 152+50 S

F.B. 1241 PG. 74 (5) Job No. 8412 Division No. V Notes Red Plotted No. Profile
Survey of Beach Erosion Studies Date 7-10-51 Date No. X-Sec.
Survey by F.H.B. Notes Notes Chkd Checked No.
Indexed A. C. Johnson Date Date

FORM 307 10M 10-46

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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
152+50	160+00	1	R-Y	9	18	63°42'	
15'	Offset	2	R			59°55'	
		3	Y			58°46'	
		4	R-Y	9	22	58°29'	
		5	R			56°03'	
		6	Y			54°37'	
		7	R-Y	9	28	52°01'	
		8	R			50°27'	
		9	Y			49°14'	
		10	R-Y	9	32	46°55'	
		11	R			45°41'	
		12	Y			43°50'	
		13	R-Y	9	35	42°49'	
		14	R			41°01'	
		15	Y			38°57'	
		16	R-Y	9	38	35°41'	
		17	R	9	42	32°08'	

CUT IN
160+00 S

Profile No. ____ Notes Red ____ Plotted Pow. Job No. 8412 Division No. ____ F.B. 129 Pg. 55
Date ____ Date 8-21-51 Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by F.H.B. Notes E.F.E. Date 7-10-51
Date ____ Date ____ Map No. ____ Indexed J. Johnson Date ____

FORM 307 10M 10-46

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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	
142+50	152+50 ~~[illegible]~~	1	R-Y	10 12	56° 13'		
		2	R		53° 30'	Instrument + sight on	
		3	Y		51° 18'	control line — (NO OFFSET)	
		4	R-Y	10 18	50° 09'		
		5	R		47° 33'		
		6	Y		45° 58'		
		7	R-Y	10 23	44° 07'		
		8	R		42° 35'		
		9	Y		40° 50'		
		10	R-Y	10 26	38° 51'		
		11	R		37° 59'		
		12	Y		36° 31'		
		13	R-Y	10 30	34° 24'		
		14	R		32° 52'		
		15	Y		30° 40'		
		16	R-Y	10 35	28° 31'		
		17	R	10 37	25° 51'		

CUT IN 152+50 S

F.B. 1245 Pg. 56 Job No. 8412 Division No. Notes Red. Plotted RW Profile
Survey of Beach Erosion Studies Date Date 8-21-51 No. X-Sec.
Survey by F.H.B. Notes E.F.E. Notes Chkd. Checked No.
Indexed A. C. Johnson Date Date Date

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION 160+00S

#	Color	Time	B. S.	H. I.	F. S.	ELEV.	Adj. Depth	Remarks
				Meas. Depth	Bottom Tide			
				27.3				
1	R.Y.	9:17 0817		26.2 27.0	26.6	1.8	24.8	
2	R.			25.0 26.3	25.7		23.9	
3	Y.			23.8 24.7	24.6		22.8	
4	R.Y.	9:21 0821		22.8 23.5	23.2	1.8	21.4	
5	R.			21.8 23.3	22.4		20.6	
6	Y.			20.7 27.3	21.6		19.8	
7	R.Y.	9:27 0827		19.2 20.0	19.9	1.8	18.1	
8	R.			18.0 18.5	18.7		16.9	
9	Y.			16.5 16.5	17.3		15.5	
10	R.Y.	9:31 0831		15.3 16.0	15.7	1.8	13.9	
11	R.			14.0 14.8	14.7	1.8	12.9	
12	Y.			12.5 13.8	13.3	1.9	11.4	
13	R.Y.	9:34 0834		11.5 12.0	12.3	1.9	10.4	
14	R.			10.0 12.0	10.7		8.8	
15	Y.			9.0 10.3	10.0		8.1	
16	R.Y.	9:38 0838		7.8 9.0	8.6	1.9	6.7	
17	R.	9:41 0841		6.0	7.5	2.0	5.5	

BOAT T
160+00S

Bathy
Notes Red Line Plotted Blue Job No. 8448 Division No. K F.B. 1298 P.S. 17
No. 3336 Date 8-11-61 Date 8-14-61 Survey of South Fork Sturgeon Studies
Notes Chkd. TMH Checked TMH Survey by FHB Notes EPK Date 7-10-61
No. Date 8-20-61 Date 8-24-61 Map No. Indexed Date Date

76L298 307 4-50

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

F.B. 1295 Pg. 58 Job No. 8412 Division No. Y Notes Red Pour Plotted T. Mile Profile
Survey of Beach Erosion Studies Date 8-13-51 Date 8-24-51 No. X-Sec.
Survey by F.H.B. Notes Vollnogle Notes Chkd T.M.I. Checked No.
Indexed [illegible] Date 7-10-51 Date 8-20-51 Date

STATION 152+50		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
			28.8				
1	R.Y.	10:12 0912	26.6 27.0	27.3	2.5	24.8	
2	R.		25.3 26.2	25.9	2.5	23.4	
3	Y.		24.0 25.0	24.7	2.6	22.1	
4	R.Y.	10:17 0917	23.0 24.8	23.7	2.6	21.1	
5	R.		21.6 22.6	22.7	2.6	20.1	
6	Y.		20.5 21.7	21.2	2.7	18.5	
7	R.Y.	10:22 0922	19.2 20.0	20.0	2.7	17.3	
8	R.		18.0 19.8	18.7		16.0	
9	Y.		16.8 18.0	17.8		15.1	
10	R.Y.	10:25 0925	15.8 16.8	16.5	2.7	13.8	
11	R.		14.8 15.8	15.5	2.7	12.8	
12	Y.		13.5 14.7	14.3	2.8	11.5	
13	R.Y	10:30 0930	12.5 13.2	13.2	2.8	10.4	
14	R.		11.5 12.5	12.1		9.3	
15	Y.		10.5 11.0	11.2		8.4	
16	R.Y.	10:35 0935	9.3 10.5	9.9	2.8	7.1	
17	R.	10:37 0937	8.1	8.9	2.9	6.0	

BOAT 152+50 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.		
152+50	12.2	25.4		13.16	1X2 ON BEACH AT GUARD HOUSE - 12" DN	
" "			11.3	14.1	Sand " " "	(SHORE ∡ 90°)
45 RT			5.9	19.5	Beach	
80 "			1.2	24.2	BASE of Wood CURB	
T.P. "	7.3	30.7	2.0	23.4	T.P. ON STEP	
82 "			5.2	25.5	TOP	
111			3.4	27.3	Base Wall	
113			2.6	28.1	TOP Wall (CONC.)	
114 RT			3.2	27.5	Walk "	
152+50	4.4	17.6	6	13.16	1X2 ABOVE	
31 LT			4.0	13.6	BEACH	
61 "			4.6	13.0	"	
84 "			7.6	10.0	"	
98 "			9.9	7.7	"	
120 T.P. "	1.1	6.7	12.0	5.6	T.P. "	
132 LT			2.0	4.7	Water	
181 LT.			5.5	1.2	OCEAN FLOOR	
253 "			8.0	-1.3	" "	
317			9.0	-2.3	" "	
352			9.8	-3.1	" "	TAPE BROKE
132" LT T.P	2.3	7.0		+4.7	T.P. " "	
400 "			11.6	-4.6	" "	(HUGE COMBERS ROLLING IN)

SHORE 152+50 S

Profile Notes Red. Plotted Job No. 8412 Division No. 71 F.B. 1294 Pg. 19
No. Date Date Survey of BEACH EROSION STUDIES (HERMOSA)
X-Sec. Notes Chkd. T.M. Checked Survey by C.V.C. Notes C.V.C. Date 7-10-51
No. Date 8-13-51 Date Map No. Indexed Date

76L298 307 4-50

132.4
15
167.4

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

16.00
4.7
11.3

STATION	B. S.	H. I.	F. S.	ELEV.			
147+50	11.3	25.3		14.00	1X1 STK.		
			88	16.5	24' RT.	BEACH	BRK (SHORE ∡ 90°)
			47	22.6	51' "	"	"
T.P	5.0	30.0	03	25.0	T.P. 83' "	"	"
			31	26.9	115 "	"	Edge Wall
			17	28.3	116 "	TOP	CONC. Wall
			26	27.4	119 "		CONC Walk
147+50	2.2	~~16.00~~ 16.2		14.0	1X1 STK		
			23	13.9	24 LT	Beach	
			28	13.4	46 "	"	"
			49	11.3	64 "	"	"
			73	8.9	81 "	"	"
			92	7.0	97 "	"	"
TRANSIT ON 15' OFF. AT 152+50 ∡ 14°-50	T.P 08	5.75	11.3	4.9	T.P 119	"	"
			31	2.6	TAPE 150	Water	
∡ 20°-50' 205.2 calc			57	-0.0	202 LT.	ocean FLOOR	
∡ 24°-09'-30" 239 calc.			76	-1.9	240 "	"	" "
28°-04'-30" 281.7 calc.			84	-2.7	284	"	" "
?			86	-2.9	370	"	" "
42°-07 452.0	SHORE 147+50		116	-5.9	452.0 calc.	"	" "

F. B. 1295 Pg. 60 72 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.M.I. Checked
Indexed R. C. Johnson Date 7-17-51 Date 8-13-57 Date No.

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
147+50	137+50	1	R&Y	10:54	89° 01	
		2	R		89° 34	
		3	Y		89° 15	
		4	R&Y	10:59	89° 30	
		5	R		89° 42	
		6	Y		89° 15	
		7	R&Y	11:03	89° 55	
		8	R		89° 25	
		9	Y		89° 28	
		10	R&Y	11:08	89° 42	
		11	R		89° 14	
		12	Y		89° 07	
		13	R&Y	11:12	89° 16	
		14	R		89° 45	
		15	Y		89° 32	
		16	R&Y	11:15	89° 29	
		17	R		90° 29	
		18	Y	11:19	87° 05	

RANGE
147+50 S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. Y
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes M.S. Date 7-10-51
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 129 Pg. 61

F.B. 1295 Pg. 62 ① Job No. 8412 Division No. V Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-12-51 Date No.

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

Indexed A. C. Johnson Date Date No.

RANGE
142+50 S
- NOTE -
SEE PG. 63
FOR RERUN

FORM 30[illegible] 10M 10-46

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700 HALL OF RECORDS

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STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
142+50 132+50	1	R&Y	7.05	90°50'		
	2	R		90°50'		
	3	Y		90°45'		
	4	R&Y	7:10	90°32'		
	5	R		90°51'		
	6	Y		90°51'		
	7	R&Y	7:12	90°23'		
	8	R		90°19'		
	9	Y		90°33'		
	10	R&Y	7:16.5	90°23'		
	11	R		90°26'		
	12	Y		90°15'		
	13	R&Y	7:18.5	80°19'		
	14	R	7:21	80°11'		

FORM 307 10M 10-46

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	~~Remarks~~
142+50	132+50	1	R&Y	7 19⁵	90° 00.	Rerun of Range
		2	R		90° 00.	142+50 per page.
		3	Y		90° 03.	
		4	R&Y	7 26	90° 21.	
		5	R		89° 50.	
		6	Y		90° 25.	
		7	R&Y	7:30	90° 13.	
		8	R		90° 06.	
		9	Y		90° 06.	
		10	R&Y	7:32	90° 06.	
		11	R		90° 06.	
		12	Y		89° 29.	
		13	R&Y	7:35	90° 29.	
		14	R		89° 30.	
		15	Y		90° 23.	
		16	R&Y	7:36⁵	90° 00.	
		17	R		89° 45.	
		18	Y		90° 14.	
		19	R&Y	7:39⁵	89° 52.	
		20	R		89 52.	

Rerun Range
142+50
see pg 62

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V ①
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-18-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.B. 1/29 Pg. 63

F.B. 9295 PG. 64 | Job No. 8412 Division No. V Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-18-51 Date No.

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

Indexed A. C. Johnson Date Date Date No.

Rc run Range

142+50

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight On	#	Color	Time	Hor. Ang.	
142+50	21	Y		89°42'	
132+50	22	R & Y	7°41	89°42'	

FORM 303 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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.

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
137+50	147+50	1	RY	10 54	55°20'	
		2	R		51°45'	
		3	Y		48°-23'	
		4	RY	10 59	46°-57'	
		5	R		45°-54'	
		6	Y		44°-41'	
		7	RY	11 03	42°-22'	
		8	R		41°-42'	
		9	Y		40°-28'	
		10	RY	11 08	38°-27'	
		11	R		36°-42'	
		12	Y		36°-26'	
		13	RY	11 12	35-01	
		14	R		33°-19'	
		15	Y		30°-27'	
		16	RY	11 16	28°-40	
		17	R		26°-15'	
		18	Y	11 19	23°-21'	

CUT X N
147+50 S

Profile Notes Red. ____ Plotted Lew. Job No. 8412 Division No. ____ F.B. 129 Pg. 65
No. ____ Date ____ Date 8-21-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes E.F.E. Date 7-10-51
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

FORM 307 10M 10-46

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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	
132+50	142+50	1	RY	7 05	53°-12'-		
		2	R		51°-06'-		
		3	Y		49°-55'-		
		4	RY	7 09	47°-23'-		
		5	R		45°-31'-		
		6	Y		[illegible]-10'-		
		7	RY	7 12	42°-18'-		
		8	R		[illegible]-23'-		
		9	Y		38°-24'-		
		10	RY	7 15	35°-47'-		
		11	R		34°-05'		
		12	Y		32°-53'		
		13	RY	7 17	29°-52'		
		14	R		29°-40'		

CUT IN 142+50 S NOTE SEE PG 67 FOR RERUN

F.B. 7295 PG. 66 Job No. 8412 Division No. Notes Red. Plotted RAW. Profile
Survey of BEACH EROSION STUDIES Date Date 8-21-51 No. X-Sec.
Survey by F.H.B. Notes C.B.S. Notes Chkd. Checked No.
Indexed A. C. Johnson Date 7-12-51 Date 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	
132+50	142+50	1	R & Y	7:19	57°07'	-	
		2	R		55°56'	-	
		3	Y		54°24'	-	
		4	R & Y	7:26	51°50'	-	
		5	R		50°35'	-	
		6	Y		47°45'	-	
		7	R & Y	7:29	46°14'	-	
		8	R		44°39'	-	
		9	Y		43°24'	-	
		10	R & Y	7:32	41°20'	-	
		11	R		39°31'	-	
		12	Y		37°59'	-	
		13	R & Y	7:35	35°22'	-	
		14	R		34°06'	-	
		15	Y		32°30'	-	
		16	R & Y	7:37	30°42'	-	
		17	R		27°52'	-	
		18	Y		26°28'	-	
		19	R & Y	7:40	25°02'	-	
		20	R		23°49'		

Re-run Cut-in 142+50-S see page 68 for 1st run

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 129 Pg. 67
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes MACK Date 7-18-51
No. ____ Date ____ Date ____ Map No. ____ Indexed E. C. Johnson Date ____

F. B. 1295 Pg. 68 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

Survey by Blanchard Notes MACK Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date 7-18-51 Date _____ Date _____ No. _____

Rerun Cut in
142+50

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight	#	Color	Time	Hor. Ang.	Remarks
Lt On					
132+50 142+50	21	Y		2 24	
	22	R & Y	7:41	2 29	

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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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 147+50		B.S.	H.I.	F.S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	R.Y.	10:54 0954	28.4 27.1 28.0	27.5	2.6	24.9		
2	R.		25.6 25.8	26.4		23.8		
3	Y.		24.0 24.2	24.6		22.0		
4	R.Y.	10:59 0959	22.5 22.8	23.1	2.6	20.5		
5	R.		21.2 22.7	21.7		19.1		
6	Y.		20.0 20.9	20.9		18.3		
7	R.Y.	11:02 10 02	19.0 20.0	19.6	2.7	16.9		
8	R.		18.0 18.8	18.7		16.0		
9	Y.		17.0 17.8	17.6		14.9		
10	RY	11:08 1008	15.8 17.0	16.5	2.8	13.7		
11	R.		14.7 15.8	15.5		12.7		
12	Y.		13.7 15.2	14.4		11.6		
13	R.Y.	11:11 1011	12.7 15.3	13.5	2.8	10.7		
14	R.		11.7 13.0	12.9		10.1		
15	Y.		10.7 12.2	11.5		8.7		
16	R.Y.	11:15 1015	9.7 10.7	10.5	2.8	7.7		
17	R.		8.7 9.3	9.4		6.6		
18	Y.	11:19 1019	7.0	7.8	2.8	5.0		

30 AT
147+50 S

Profile Notes Red LOW Plotted LOW Job No. 8412 Division No. V F.B. 1290 Pg. 69
No. Date 8-13-51 Date 8-24-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.I. Checked Survey by E.H.B. Notes E.R.V. Date 7-12-51
No. Date 8-20-57 Date Map No. Indexed Johnson 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. 1295 Pg. 70 Job No. 8412 Division No. V Notes Red. PCW Plotted _____ Profile _____
Survey of Beach Erosion Studies Date 8-13-51 Date _____ No. _____
Survey by E.H.B. Notes Vollnagle Notes Chkd. TM.L. Checked _____ X-Sec. _____
Indexed A. C. Johnson Date 7-12-51 Date 8 20 51 Date _____ No. _____

STATION 142+50S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	R.Y.	7:05 0605	28.7 27.1 27.1	27.6	2.5	25.1	
2	R.		25.8 26.3	26.2	2.5	23.7	
3	Y.		24.5 25.0	25.1	2.4	22.7	
4	R.Y.	7:10 0610	23.2 24.2	23.8	2.4	21.4	
5	R.		22.1 22.7	22.8		20.4	
6	Y.		21.0 20.9	21.6		19.2	
7	R.Y.	7:12 0612	19.5 20.2	20.0	2.4	17.6	
8.	R.		18.2 18.5	18.9		16.5	
9	Y.		17.0 17.0	17.5		15.1	
10	R.Y.	7:16 0616	15.5 15.8	16.0	2.4	13.6	
11	R.		14.0 14.7	14.6		12.2	
12	Y.		13.0 13.2	13.6	2.4	11.2	
13	R.Y.	7:19 0619	12.0 13.0	12.4		10.0	
14.	R.	7:27 0627	11.0	11.7	2.4	9.3	

BOAT 142+50S

- NOTE - SEE PG 71 FOR RERUN

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. ____ Notes Red. Ellis Plotted ____ Job No. 8412 Division No. V F. B. 1298 Pg. 71
Date 8-13-51 Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd TMI Checked ____ Survey by E.H.B. Notes E.R.V. Date 7-18-51
Date 8-20-51 Date ____ Map No. ____ Indexed ____ Date ____

STATION 142+50S

#	Color	Time	B. S. Meas. Depth	H. I. Bottom	F. S. Tide	ELEV. Adj. Depth	Remarks
			28.9				
1	R.Y.	7:20 0620	28.0 27.8	28.3	2.0	26.3	
2	R.		26.9 26.7	27.2	2.0	25.2	
3	Y.		25.9 25.6	26.2	2.1	24.1	
4	R.Y.	7:26 0626	24.9 24.7	25.1	2.2	22.9	
5	R.		23.9 23.5	24.2	2.2	22.0	
6	Y.		22.7 22.4	23.0	2.3	20.7	
7	R.Y.	7:30 0630	21.5 21.5	21.8	2.3	19.5	
8	R.		20.4 20.3	20.8	2.3	18.5	
9.	Y.		19.4 19.3	19.7	2.3	17.4	
10	R.Y.	7:32 0632	18.4 18.1	18.7	2.4	16.3	
11	R.		17.3 17.0	17.6		15.2	
12	Y.		16.1 16.1	16.4		14.0	
13	R.Y.	7:35 0635	14.8 14.9	15.2	2.4	12.8	
14	R.		13.8 13.8	14.2	2.4	11.8	
15	Y.		12.8 13.0	13.1	2.5	10.6	
16	R.Y.	7:37 0637	11.7 11.9	12.1	2.5	9.6	
17	R.		10.2 10.3	10.8		8.3	
18	Y.		9.2 9.3	9.6		7.1	
19	R.Y.	7:40 0640	8.1 8.1	8.5	2.5	6.0	
20	R.		7.0	7.4		4.9	

RETURN
Boat 142+50-S
Note: see page 70 for 1st Run

F. B. 1295 Pg. 72 Job No. 8412 Division No. V Notes Red. Lew. Plotted _____ Profile

Survey of Beach Erosion Studies Date 8-13-51 Date _____ No. _____

Survey by F.H.B. Notes Villnogle Notes Chkd. TM.L. Checked _____ X-Sec.

Indexed A. C. Johnson Date 7-18-51 Date 8-20-57 Date _____ No. _____

Boat

Re-run 142+50

STATION 142+50	B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
21	Y	7.42	7.0	6.3	2.6	3.7	
22	RY	0642	6.2	5.4		2.8	

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.

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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.		
142+50	11.0	24.3		13.282	1X1 IN HOLE	
" "			9.6	14.7	SAND	SHORE ∡ 90°
			7.6	16.7	31' RT "	
			4.7	19.6	54' " "	
			2.6	21.7	66' " "	
T.P.	8.8	32.9	0.2	24.1	T.P. 75' "	
			5.1	27.8	102 " "	
			3.2	29.7	126 " "	BASE of CONC. Wall.
			1.8	31.1	127 "	TOP " "
			2.6	30.3	128 "	Walk
142+50 (TRANSIT ON 147+50)	1.9	15.2		13.3	1X1 ABOVE	
50' calc			1.1	14.1	35 LT.	BRK
5°-41'			2.5	12.7	50 "	TOP SL
			6.0	9.2	77 "	
109' 12°-24'			9.6	5.6	108 "	Water
T.P.	2.2	6.9	10.5	4.7	T.P. 116 "	
20°-16'-185			5.6	1.3	185 calc ✓	OCEAN FLOOR
24°-53'-232			8.5	-1.6	232' calc ✓	" "
39°-19'-409			10.3	-3.4	409 calc ✓	" "
			13.0	-6.1		(STRONG NLY CURRENTS & HIGH SURF)

SHORE 142+50 S

PAGE 75 SEE 2ND RUN 7-18-51

Profile Notes Red. Plotted Job No. 8412 Division No. 73 F.B. 1295 Pg. 73
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. T.M.I. Checked Survey by G.V.C. Notes G.V.C. Date 7-11-12-51
No. Date 8-13-51 Date Map No. Indexed Johnson 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.

156
57
59

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
137+50	11 8	257		13.88	1X1 IN HOLE	
" "			114	[illegible] 3	" SAND	SHORE ∡ 90°
			104	[illegible] 5	22 RT.	Beach
			87	[illegible]	43 "	" "
			61	[illegible]	61' "	" "
T.P.	81	322	16	[illegible]	T.P. 85 "	" " TOP Bank
			57	20 5	104 "	
			33	[illegible] 9	127 "	BASE of Conc. Wall
			2	[illegible] 2	128 "	TOP "
			28	[illegible] 4	129 "	WALK
137+50	1.7	156		13[illegible]	1X1 ABOVE	
(TRANS. ON 142+50)			14	10 2	35 LT.	
5°-42' (50' calc.)			29	[illegible] 7	TAPE 50 "	
8°-37' (76 calc.)			64	9 2	76 "	
11°-14' (calc 99.3)			91	[illegible] 5	100 "	Water
13°-02 T.P.	25	72	109	4 7	T.P 116 calc. "	ocean FLOOR
22°-22'			70	[illegible] 2	206 calc "	" "
28°-18'			103	3 1	269 calc.	" "
29°-38'			103	3 1	284 calc	" "
41°-47'			117	4 5	447 calc.	" "

SHORE 137+50S

STRONG N'LY CURRENTS - HIGH SURF.

SEE 2ND RUN 7-18-51 PAGE 76

F. B. 1295 Pg. 74 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.N.L. Checked X-Sec.
Indexed A. C. Tobias Date 7-11-12-51 Date 6-13-51 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.			
TRANS. ON 147+50					2ND RUN		
142+50	28	161		13.3	1X2 IN HOLE		
13°-25' T.P	22	69	114	4.7 T.P	TAPE 119 T. (calc. 1192)	- Water	
17°-32'			52	1.7	158 calc.	ocean FLOOR	
21°-20'			81	-1.2	195 "	" "	
26°-45'			97	-2.8	252 "	" "	
29°-36'			86	-1.7	284 "	" "	
34°-44'			90	-2.1	347 "	" "	
39°-25'			108	-3.9	411 "	" "	

SEE 1ST RUN - 7-12-51 - PAGE 73

SHORE

142+50 S

Profile Notes Red. Plotted Job No. 8412 Division No. No. 129 Pg. 75
No. Date Date Survey of BEACH EROSION STUDIES (MANHATTAN)
Notes Chkd. T. M. I. Checked Survey by C.V. CRUMLEY Rcvd. C.V.C. Date 7-18-51
No. Date 8-13-51 Date Map No. Date

76L298 307 4-50

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

15.3
4.7
10.6

STATION	B. S.	H. I.	F. S.	ELEV.		
(TRANS. ON 142+50)					2ND RUN - 7-18-51	
137+50	14	15.3		13.9	1X1 IN HOLE	SHORE ∡ 90°
∡S 13°-20' T.P.	18	6.5	10.6	4.7	T.P. 119 LT. TAPE (Calc. 118.5)	Water
16°-33'			4.6	1.9	148.5 Calc.	OCEAN FLOOR
20°-53'			8.2	-1.7	191 Calc.	" "
25°-32'			9.6	-3.1	239 "	" "
31°-42'			8.7	-2.2	309 "	" "
35°-10'			9.2	-2.7	352 "	" "
38°-17'			10.3	-3.8	395 "	" "

SHORE 137+50 S

PAGE 74

SEE 1ST RUN 7-12-51

F. B. 1295 Pg. 76 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES (MANHATTAN) Date Date No. X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. Checked T.M.I.
Indexed R. C. Johnson Date 7-18-51 Date Date 8-13-51 No.

Profile	Notes Red	Plotted	Job No. 8412	Division No. ✓ ②	F.B. 129 Bs. 72
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B	Notes M.S.	Date 7-12-51
No.	Date	Date	Map No.	Indexed Johnson	Date

RANGE
137+50 S

— NOTE —
SEE PG 79
FOR RERUN

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700 HALL OF RECORDS

Do not extend notes this side of this line.

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At	On	#	Color	Time Hor. Ang.	
137+50	132+50	1	R&Y	7:54	90° 28
		2	R		90° 27
		3	Y		90° 35
		4	R&Y	7:59	89° 56
		5	R		89° 43
		6	Y		90° 13
		7	R&Y	8:03	90° 29
		8	R		89° 48
		9	Y		89° 56
		10	R&Y	8:08	89° 38
		11	R		89° 12
		12	Y	8:11	89° 17

FORM 307 10M 10-46

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	
132+50	137+50	1	R&Y	8:33 5	90°12		
		2	R		90°09		
		3	Y		90°01		
		4	R&Y	8:37	89°25		
		5	R		91°11		
		6	Y		90°19		
		7	R&Y	8:46	90°29		
		8	R		90°34		
		9	Y		90°35		
		10	R&Y	8:49	91°45		
		11	R		90°42		
		12	Y		89°57		
		13	R&Y	8:51 5	90°22		
		14	R	8:55	91°07		

RANGE 132+50 S
—NOTE—
SEE PG-80
FOR RERUN

F.B. 7291 PG. 78 Job No. 8412 Division No. V Notes Red — Plotted — Profile
Survey of Beach Erosion Studies Date 7-12-51 Date — No. — X-Sec.
Survey by FHB Notes M.S. Notes Chkd — Checked — Date — No.
Indexed E. C. Johnson Date — Date — Date

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
137+50	132+50	1	R&Y	7 54^5	90° 11,	Rerun of Range
		2	R		90° 10,	137+50 as per page
		3	Y		89° 46,	
		4	R&Y	7:57	89° 45,	
		5	R		89° 37,	
		6	Y		89° 58,	
		7	R&Y	8:00	89° 58,	
		8	R		90° 21,	
		9	Y		90° 37,	
		10	R&Y	8 02^5	90° 11,	
		11	R		89° 55,	
		12	Y		90° 16,	
		13	R&Y	8:05	90° 18,	
		14	R		89° 51,	
		15	Y		90° 23,	
		16	R&Y	8:07^5	89° 56,	
		17	R		89° 44,	
		18	Y		89° 44,	
		19	R&Y	8:10	89° 44,	
		20	R	8:11	89° 34,	

Rerun Range
137+50
see pg 77

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V (2) F.B. 1295 Pg. 79
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes M.S. Date 7-18-51
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

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	
		1	R 8Y	8 21	89 42		
132+50	137+50	2	R		90°21	Rerun of Range 132+50 as per	
		3	Y		90°14	Page	
		4	R 8Y	8:24	90°04		
		5	R		90°04		
		6	Y		90°19		
		7	R &Y	8:25⁵	90°15		
		8	R		90°15		
		9	Y		90°15		
		10	R &Y	8:28⁵	89 49		
		11	R		90°24		
		12	Y		88°54		
		13	R &Y	8 30⁵	90 01		
		14	R		89°50		
		15	Y		89°40		
		16	R 8Y	8:34	90°27		
		17	R		90°16		
		18	Y		90°26		
		19	R &Y	8:37	90°21		
		20	R	8:37⁵	90°21		

Re run
Range 132+50
see page 78

F.B. 1291 PG. 80 | Job No. 8412 Division No. V Notes Red Plotted No. Profile
Survey of Beach Erosion Studies Date 7-18-51 Date X-Sec.
Survey by F.H.B. Notes M.S. Notes Chkd Checked No.
Indexed B. C. Johnson Date Date Date

Profile No. ____ Notes Red. ____ Plotted Lew. Job No. 5412 Division No. ____ F.B. 129 Pg. 81

Date ____ Date 8-21-51 Survey of Beach Erosion Studies

X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes C.B.S. Date 7-12-51

Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

CUT IN
137+50 S

~NOTE~
SEE PG 83
FOR RERUN

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

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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FORM 307 10M 10-46

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On		#	Color	Time Hor. Ang.	
132+50	137+50	1	RY	7 53 69°-31'	
		2	R	67°-35'	
		3	Y	66°-34'	
		4	RY	7 59 65°-15'	
		5	R	64°-36'	
		6	Y	62°-46'	
		7	RY	8 03 60°-13'	
		8	R	59°-40'	
		9	Y	57°-30'	
		10	RY	8 08 55°-40'	
		11	R	54°-42'	
		12	Y	8 11 52°-16'	

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	
137+50	132+50	1	RY	834	71°-18'		
		2	R		68°-56'		
		3	Y		66°-35'		
		4	RY	837	[illegible]-00'		
		5	R		62°-00'		
		6	Y		[illegible]-19'		
		7	RY	846	59°-30'		
		8	R		58°-57'		
		9	Y		[illegible]-17'		
		10	RY	849	54°-55'		
		11	R		[illegible]-32'		
		12	Y		[illegible]-00'		
		13	RY	852	[illegible]-12'		
		14	R	855	47°-36'		

CUT IN 132+50 S
-NOTE-
SEE PG 84
FOR RERUN

See page No 84

F.B. 1295 PG. 82
Job No. 8412 Division No. Notes Red. Plotted Lew
Survey of Beach Erosion Studies Date 8-21-51 No. Profile
Survey by F.H.B. Notes C.B.S. Notes Chkd. Checked No. X-Sec.
Indexed R. G. Johnson Date 7-12-50 Date Date No.

Profile	Notes Red Lrw.	Plotted	Job No. 8412	Division No. V	F. B. 1295 Pg. 85
No.	Date 8-9-51	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd. T.M.	Checked	Survey by F.H.B.	Notes E.R.V.	Date 7-12-51
No.	Date 8-20-51	Date	Map No.	Indexed	Date

BOAT
137+50

NOTE
SEE PG 87
FOR RERUN

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 137+50 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	R.Y.	7:53 0653	28.5 27.0 26.8	27.5	2.3	25.2	
2	R.		25.6 26.2	26.0		23.7	
3	Y.		24.5 25.8	25.1		22.8	
4	R.Y.	7:59 0659	23.0 23.8	23.9	2.3	21.6	
5	R.		21.8 22.8	22.5		20.2	
6	Y.		20.5 21.3	21.3		19.0	
7	R.Y.	8:03 0703	19.1 19.9	19.8	2.3	17.5	
8	R.		18.1 18.9	18.7		16.4	
9	Y.		16.8 17.8	17.2		14.9	
10	R.Y.	8:08 0708	15.5 16.0	16.3	2.3	14.0	
11	R.		14.2 14.7	14.8		12.5	
12	Y.	8:11 0711	12.8	13.4 13.5	2.3	11.1 11.2	

76L298 307 4-50

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 132+50S | B. S. | H. I. | F. S. | ELEV.

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	R.Y.	8:33 0733	29.0 26.8 27.1	27.5	2.3	25.2	
2	R.		25.3 26.1	25.9		23.6	
3	Y.		23.9 24.6	24.6		22.3	
4	R.Y.	8:37 0737	22.5 24.2	23.2	2.2	21.0	
5	R.		21.1 21.7	22.1		19.9	
6	Y.		20.0 21.0	20.6		18.4	
7	R.Y.	8:46 0746	19.0 20.4	19.7	2.2	17.5	
8	R.		17.9 19.7	18.7		16.5	
9	Y.		16.9 18.7	17.8		15.6	
10	R.Y.	8:49 0749	15.7 16.1	16.7	2.2	14.5	
11	R.		14.4 15.3	15.0		12.8	
12	Y.		13.1 14.2	13.8		11.6	
13	R.Y.	8:51 0751	11.9 12.8	12.7	2.2	10.5	
14	R.	8:54 0754	10.8	11.5	2.2	9.3	

BOAT 132+50S
-NOTE-
SEE PG. 88
FOR RERUN

F. B. 1295 Pg. 86 Job No. 8412 Division No. V Notes Red. Rerun Plotted
Survey of Beach Erosion Studies Date 8-9-51 Date No. X-Sec.
Survey by E.H.B. Notes Vollnogle Notes Chkd. T.M.I. Checked
Indexed A. C. Johnson Date 7-12-51 Date 8-20-51 Date No.
Profile

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	
132+50	137+50	1	R & Y	7:54	71° 33'		
		2	R		69° 55'		
		3	Y		68° 37'		
		4	R & Y	7:57	66° 55'		
		5	R		66° 16'		
		6	Y		64° 44'		
		7	R & Y	8:00	62° 32'		
		8	R		60° 20'		
		9	Y		58° 13'		
		10	R & Y	8:02	56° 25'		
		11	R		55° 05'		
		12	Y		53° 03'		
		13	R & Y	8:04	50° 56'		
		14	R		49° 27'		
		15	Y		47° 34'		
		16	R & Y	8:07	44° 11'		
		17	R		42° 10'		
		18	Y		40° 34'		
		19	R & Y	8:10	38° 05'		
		20	R	8:11	34° 29'		

Re-Run Cut in
137+50
see page 81

Profile Notes Red. Plotted T.M.L. Job No. 8412 Division No. F.B. 129 Pg. 83
No. Date Date 8-21-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by Blanchard Notes MACK Date 7-18-51
No. Date Date Map No. Indexed Johnson Date

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION Inst. At	STATION Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
137+50	132+50	1	R & Y	8:20	71° 09	
		2	R		68° 41	
		3	Y		67° 26	
		4	R & Y	8:24	6[illegible] 46	
		5	R		6[illegible] 15	
		6	Y		62° 21	
		7	R & Y	8:25	5[illegible] 52	
		8	R		5[illegible] 59	
		9	Y		57° 37	
		10	R & Y	8:29	5[illegible] 33	
		11	R		5[illegible] 55	
		12	Y		52° 00	
		13	R & Y	8:31	5[illegible] 10	
		14	R		4[illegible] 34	
		15	Y		4[illegible] 40	
		16	R & Y	8:34	4[illegible] 56	
		17	R		43° 14	
		18	Y		4[illegible] 12	
		19	R & Y	8:37	3[illegible] 54	
		20	R	8:38	3[illegible] 53	

Cut in Re-run 132-50

see page 82

F. B. 1295 Pg. 84 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by Blanchard Notes MACK Notes Chkd. Checked
Indexed A. C. Johnson Date 7-18-51 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 137+50S

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	R.Y.	7:54 0654	29.1 28.2 28.0	28.5	2.8	25.7	
2	R.		27.0 26.8	27.3		24.5	
3	Y.		25.9 25.5	26.2		23.4	
4	R.Y.	7:57 0657	24.7 24.5	25.0	2.9	22.1	
5	R.		23.6 23.4	23.9		21.0	
6	Y.		22.4 22.1	22.7		19.8	
7	R.Y.	8:00 0700	21.3 20.9	21.6	2.9	18.7	
8	R.		20.0 19.7	20.3		17.4	
9	Y.		18.9 18.6	19.2		16.3	
10	R.Y.	8:02 0702	17.6 17.0	17.9	2.9	15.0	
11	R.		16.3 16.1	16.5	2.9	13.6	
12	Y.		15.0 14.9	15.4	3.0	12.4	
13	R.Y.	8:05 0705	13.8 13.7	14.2	3.0	11.2	
14	R.		12.5 12.2	12.9		9.9	
15	Y.		11.3 10.9	11.6		8.6	
16	R.Y.	8:07 0707	9.9 9.3	10.2	3.0	7.2	
17	R.		8.5 8.1	8.8	3.0	5.8	
18	Y.		7.2 6.2	7.5	3.1	4.4	
19	R.Y.	8:10 0710	5.9 5.8	6.0	3.1	2.9	
20	R.	8:11 0711	4.8	5.1		2.0	

Boat 137+50-S

Note: See page 85 for 1st Run

Profile Notes Red. Lour Plotted ____ Job No. 8412 Division No. V
No. ____ Date 8-9-51 Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.L. Checked ____ Survey by F.H.B. Notes E.R.V. Date 7-18-51
No. ____ Date 8-20-51 Date ____ Map No. ____ Indexed John Moore Date ____

F.B. 1295 Pg. 89

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.

F. B. 1295 Pg. 88 Job No. 8412 Division No. V Notes Red. LCW Plotted _____ Profile _____
Survey of Beach Erosion Studies Date _____ Date _____ No. _____
Survey by F.H.B. Notes Vollnagle Notes Chkd. T.M.I. Checked _____ X-Sec. _____
Indexed [illegible] Date 7-18-51 Date 8-20-51 Date _____ No. _____

STATION 132+50S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R.Y.	8:20 0720	29.0 28.2 27.2	28.5	3.3	25.2	
2	R.		26.8 26.1	26.9	3.3	23.6	
3	Y.		25.4 25.3	25.6	3.4	22.2	
4	R.Y.	8:24 0724	24.4 24.1	24.7	3.4	21.3	
5	R.		23.3 23.0	23.6		20.2	
6	Y.		21.9 21.5	22.3		18.9	
7	R.Y.	8:26 0726	20.7 20.1	21.0	3.4	17.6	
8	R.		19.5 19.0	19.7	3.4	16.3	
9	Y.		18.1 18.0	18.4	3.5	14.9	
10	R.Y.	8:29 0729	16.9 16.3	17.3	3.5	13.8	
11	R.		15.4 15.0	15.7		12.2	
12	Y.		14.0 14.0	14.3		10.8	
13	R.Y.	8:31 0731	13.0 13.4	13.3	3.5	9.8	
14	R.		12.0 11.9	12.5		9.0	
15	Y.		10.7 10.1	11.1		7.6	
16	R.Y.	8:34 0734	9.6 9.1	9.8	3.5	6.3	
17	R.		8.6 8.3	8.8	3.5	5.3	
18	Y.		7.3 8.3	7.6	3.6	4.0	
19	R.Y.	8:37 0737	6.3 6.1	7.0	3.6	3.4	
20	R.	8:38 0738	5.0	5.4	3.6	1.8	

Note: See page 86 for 1st Run.
Boat 132+50-S

76L298 307 4-50

132+50
137+50
142+50

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

5.70

STATION	B. S.	H. I.	F. S.	ELEV.		
132+50	11 4	26 2		14 837	1X1 IN HOLE	
			105	15 7	SAND	SHORE ∡ 90°
			100	16 2	19 RT. Beach	
			71	19 1	37 " "	
T.P	67	30 9	2.0	24 2	T.P. 60 "	
			36	27 3	69 " "	TOP Bank
			37	27 2	87 "	
			43	26 6	102 "	
			51	25 8	109 "	
			32	27 7	113 "	
			28	28 1	117 "	BASE of WALL
			30	33 9	119 "	WALK
132+50	15	16 3		14 8	1X1 ABOVE	
(TRANS. ON 137+50)			25	13 8	TAPE 43 LT Beach	STRONG CURRENTS HIGH SURF
5°-58' (52' calc)			30	13 3	51 " "	
9°-20' (82' calc)			66	9 7	83 "	
			91	7 2	99 "	
13°-39' T.P.	09	5 6	11 6	4 7	T.P. - 121' calc.	WATER.
23°-47'			56	0.0	220' calc.	OCEAN FLOOR.
28°-22'			74	-1 8	270' calc	" "
42°-39'			108	-5 2	461' cal	" "

SEE 2ND RUN PAGE 91

SHORE 132+50 S

Profile Notes Red. Plotted Job No. 8412 Division No. 75 F. B. 1295 Pg. 89
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. T.M.I. Checked Survey by C.V.C. Notes C.V.C. Date 7-11-12-51
No. Date 8-13-51 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.		
127+50	39	28 3		24 72	1X1 IN HOLE ON LINE TO North.	
			32	25 1	GROUND.	SHORE ∡ 90°
			2.6	25 1	12' RT. Toe SL.	
			32	25 1	18 LT TOP Bank	
			87	19 [illegible]	32 " Toe SL.	
			84	19 [illegible]	35 " Beach	
			105	17 [illegible]	61 " "	
T.P	28	19 1	120	16 3	T.P. 70 " "	
			43	14 8	103 " "	
			51	15 0	126 " "	BRK.
T.P.	16	13 6	71	12 0	T.P. 145 " 1X2 STK ON "	
			51	8 5	172	
(TRANS. ON 122+50)			89	4 7	199 Water	
∡S 23°-44' T.P.	4.2	7 4	104	3 2	T.P. TAPE 221 LT (Calc-220')	OCEAN FLOOR.
27°-57'			61	1 3	265 calc.	" "
32°-24'			75	- 1	317' calc.	" "
36°-16'			86	- 1 2	367 calc.	
46°-05'			110	- 3 5	519 calc.	
50°-23'			117	- 4 3	604 calc.	
?			13.5	- 6 1	"	

SHORE 127+50 S

F. B. 1295 Pg. 90 76 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile
Survey of BEACH EROSION STUDIES. Date ____ Date ____ No. ____
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.M.I. Checked ____ X-Sec.
Indexed R. C. Johnson Date 7-11-12 51 Date 8-13-51 Date ____ No. ____

96L298 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.

158
6.7
11.1

STATION	B. S.	H. I.	F. S.	ELEV.		
(TRANS. ON. 137+50)					2ND RUN - 7-18-51	
132+50	1.0	15.8		14.8	1X1 IN HOLE	
∡s 14°-52' T.P.	1.5	6.2	11.1	4.7	T.P. TAPE 133+ (calc. 133-)	Water.
20°-35'			5.7	0.5	188 LT. Calc.	OCEAN FLOOR.
24°-40'			6.7	-0.5	230 " "	" "
30°-07'			9.7	-3.5	290 " "	" "
37°-33'			9.4	-3.2	384 " "	" "
41°-32'			11.2	-5.0	443 " "	" "

SEE 1ST RUN - 7-12-51
PAGE 89

SHORE
132+50S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ P.B. 1296-91
Date ____ Date ____ Survey of BEACH EROSION STUDIES MANHATTAN
Notes Chk. TMI Checked ____ Survey by C.V.C. Note C.V.C. Date 7-18-51
No. ____ Date 8-13-51 Date ____ Map No. ____ Date ____

F. B. 1295 Pg. 92

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.	

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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.

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

761298 3077 4-50

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
127+50	129+41.58	1	R&Y	9:17	89°36.	
		2	R		89°36.	
		3	Y		89°55.	
		4	R&Y	9:23	89°29.	
		5	R		89°16.	
		6	Y		89°28.	
		7	R&Y	9:28	89°44.	
		8	R		89°56.	
		9	Y		89°59.	
		10	R&Y	9:35	89°35.	
		11	R		90°06.	
		12	Y		90°15.	
		13	R&Y	9:37	90°36.	
		14	R		89°44.	
		15	Y		91°10.	
		16	R&Y	9:41	90°39.	
		17	R	9:42	90°15.	

RANGE
127+50 S

- Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec.
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey of Beach Erosion Studies
Date ____ Survey by FHB Notes MS Date 7-12-51
Map No. ____ Date ____ Indexed Johnson Date ____

F.B. 1290 PG 93

FORM [illegible] TOM 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 122+50	Sight On 112+50	#	Color	Time	Hor. Ang.	Remarks	
		1	R & Y	10:00	90°22'		
		2	R		90°22'		
		3	Y		89°49'		
		4	R & Y	10:05	90°52'		
		5	R		90°25'		
		6	Y		90°19'		
		7	R & Y	10:10	90°18'		
		8	R		89°50'		
		9	Y		90°00'		
		10	R & Y	10:16	89°29'		
		11	R		90°13'		
		12	Y		90°05'		
		13	R & Y	10:21	89°57'		
		14	R		89°45'		
		15	Y		90°02'		
		16	R & Y	10:23	89°21'		
		17	R		88°44'		
		18	Y	10:26	88°23'		

RANGE 122+50

F.B. 1298 PG. 94 (5)
Job No. 8412 Division No. V Notes Red Plotted No. Profile
Survey of BEACH EROSION STUDIES Date 7/12/51 Date X-Sec.
Survey by E.H. BLANCHARD Notes M.S. Notes Chkd. Checked No.
Indexed A. C. Johnson Date Date Date

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
137+50	132+50	1	R-Y	9	17	59°23';	
		2	R			55°43'.	
		3	Y			53°19'.	
		4	R-Y	9	23	51°13'.	
		5	R			49°10'.	
		6	Y			48°16'.	
		7	R-Y	9	28	46°14'.	
		8	R			44°29'.	
		9	Y			42°52'.	
		10	R-Y	9	35	40°11'.	
		11	R			38°00'.	
		12	Y			36°24'.	
		13	R-Y	9	38	34°27'.	
		14	R			32°48'.	
		15	Y			30°12'.	
		16	R-Y	9	41	29°20'.	
		17	R	9	42	26°23'.	

Profile No. ____ Date ____ Notes Red ____ Plotted RCW. Job No. 8412 Division No. ____ F.B. 129 Pg. 95

X-Sec. No. ____ Date ____ Notes Chkd ____ Date 8-21-51 Checked ____ Date ____ Survey of Beach Erosion Studies

Survey by E.H.B. Notes E.E.E. Date 7-12-51

Map No. ____ Indexed ____ Date ____

CUT IN 127+50 S

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	
112+50	122+50	1	R-Y	10 00	58° 20'		
		2	R		55° 17'		
		3	Y		53° 21'		
		4	R-Y	10 05	50° 51'		
		5	R		48° 31'		
		6	Y		47° 09'		
		7	R-Y	10 10	45° 42'		
		8	R		42° 19'		
		9	Y		41° 21'		
		10	R-Y	10 16	39° 59'	Cut in 122+50	
		11	R		38° 16'		
		12	Y		38° 18'		
		13	R-Y	10 21	36° 44'		
		14	R		35° 34'		
		15	Y		34° 20'		
		16	R-Y	10 23	34° 08'		
		17	R		31° 38'		
		18	Y	10 26	31° 13'		

F.B. 1295 PG. 96 Job No. 8412 Division No. Notes Red Plotted Lewis Profile
Survey of Beach Erosion Studies Date Date 8-21-51 No. X-Sec.
Survey by F.H.B. Notes E.F.E. Notes Chkd Checked No.
Indexed A. C. Johnson Date Date Date

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION 127+50S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			29.0				
1	R.Y.	9:17 0817	27.0 27.5	27.7	4.1	23.6	
2	R.		25.6 26.2	26.2	4.1	22.1	
3	Y.		24.6 25.4	25.1	4.2	20.9	
4	R.Y.	9:23 0823	23.6 23.8	24.2	4.2	20.0	
5	R.		22.4 22.7	22.9		18.7	
6	Y.		21.3 22.5	21.8		17.6	
7	R.Y.	9:27 0827	20.3 20.9	21.0	4.2	16.8	
8	R.		19.3 19.4	19.8	4.2	15.6	
9	Y.		17.7 18.5	18.3	4.3	14.0	
10	R.Y.	9:35 0835	16.2 17.0	17.0	4.3	12.7	
11	R.		15.0 16.1	15.7		11.4	
12	Y.		14.0 14.9	14.7		10.4	
13	R.Y.	9:37 0837	13.0 13.4	13.6	4.3	9.3	
14	R.		12.0 12.8	12.5		8.2	
15	Y.		10.0 10.5	10.9		6.6	
16	R.Y.	9:41 0841	8.0 9.0	8.8	4.3	4.5	
17	R.	9:42 0842	7.0	7.7	4.3	3.4	

BOAT
127+50 S

Profile Notes Red. Pur. Plotted _____ Job No. 8412 Division No. V F.B. 1295 Page 97
No. _____ Date 8-9-51 Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd TIM Checked _____ Survey by F.H.B. Notes F.R.V. Date 7-12-51
No. _____ Date 8-20-57 Date _____ Map No. _____ Indexed Johnson 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.

F. B. 1295 Pg. 90 Job No. 8412 Division No. V Notes Red. Lowe Plotted ____ Profile ____
Survey of Beach Erosion Studies Date 8-9-51 No. ____ X-Sec. ____
Survey by F.H.B. Notes Vollmogle Chkd. T.M.J. Checked ____
Indexed C. Job Date 7-12-51 Date 8-20-57 No. ____

STATION 122+50S

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			29.0				
1	R.Y.	10:00 0900	27.1 27.7	27.7	4.4	23.3	
2	R.		26.0 26.8	26.6		22.2	
3	Y.		24.8 25.2	25.5		21.1	
4	R.Y.	10:05 0905	23.5 24.0	24.1	4.4	19.7	
5	R		22.3 23.0	22.9	4.5	18.4	
6	Y		21.1 22.8	21.7	4.5	17.2	
7	R.Y.	10:10 0910	20.0 21.3	20.9	4.5	16.4	
8	R.		18.8 18.6	19.6		15.1	
9	Y.		17.6 18.0	17.9		13.4	
10	R.Y.	10:16 0916	16.5 16.6	17.0	4.5	12.5	
11	R.		15.0 16.5	15.5		11.0	
12	Y.		14.0 15.0	14.8		10.3	
13	R.Y.	10:21 0921	12.8 14.5	13.5	4.5	9.0	
14	R		11.5 12.5	12.5		5.0	
15	Y.		10.5 11.6	11.2		6.7	
16	R.Y.	10:23 0923	9.2 10.3	10.0	4.5	5.5	
17	R		7.5 9.5	8.5		4.0	
18	Y.	10:27 0927	6.5	7.5	4.5	3.0	

Boat 122+50 S.

76L298 307 5-49

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4.5

STATION	B. S.	H. I.	F. S.	ELEV.		
122+50	35	29 0		25 454	1X1 IN HOLE	
			26	26 4	sand.	SHORE ∡ 90°
			27	26 3	15' RT	
			1.2	27 8	19' "	BASE of CONC. RUBBLE WALL
			+33	32 3	20 "	TOP " " "
			26	26 4	15 LT. BRK.	
			41	24.9	27 " "	TOP SL.
			106	18 4	52 "	TOE SL.
T.P.	10	183	117	173	T.P. 61 "	
			30	15.3	94 "	
(TRANS. ON 112+50)			47	13 6	142 "	
16-41 (150 calc.) T.P.	13	13 9	57	12.6	CLOTH TAPE. T.P 150 " 1X2 TOP BRK.	
18-57 calc. 172			39	10 0	175.	
21-49 200' calc. T.P	36	9 7	78	61	T.P 200'	Water
23-10			50	47	214 calc	
27-18			86	11	258 calc	
31-55			94	03	311 calc.	
34-24			107	-10	342' calc.	
47-27			130	-33	545 calc	
47-37			130	-3.3	548 calc	
49-19			140	-48	582 calc.	
49-56			145	-48	594 calc.	

SHORE 122+50 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. 77 F.B. 129 Pg. 99
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (MANHATTAN)
Notes Chkd. T.M.I. Checked ____ Survey by C.V.C. Notes C.V.C. Date 7-11-1951
Date 8-13-51 Date ____ Map No. ____ Date ____

76L298 307 5-49

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Profile No. ____ X-Sec. No. ____
Plotted ____ Date ____ Checked ____ Date ____
Notes Red. ____ Date ____ Notes Chkd. T.M.I. Date 8-13-51
Job No. 8412 Division No. ____ Notes ____ Date 7-11-51
Survey of BEACH EROSION STUDIES (MANHATTAN)
Survey by V. CRUMLEY Notes C.V.C.
Indexed E. C. Johnson
F.B. 295 PG. 100 78

STATION	B. S.	H. I.	F. S.	ELEV.		
117+50	27	30.7		2[illegible]	1X2 IN HOLE	
" "			17	29.[illegible]	Sand	SHORE ∡ 90°
			2.0	28.[illegible]	16' RT.	
			+34	34.1	11 "	
			3.3	27.[illegible]	18 LT.	BRK
			5.5	25.[illegible]	32 "	TOP SL.
			9.9	20.[illegible]	48 "	BRK
T.P.	26	21.1	12.2	18.5	T.P. 60 "	TOE SL.
			5.9	15.2	93 "	BRK
			6.5	12.[illegible]	128 "	"
T.P.	17	15.3	7.5	13.[illegible]	T.P. 135 " 1X2	"
			3.6	11.1	147	
			5.0	10.[illegible]	161	Water
T.P.	9.9	9.1	10.6	2.7	T.P. 19[illegible]	
TRANS. ON 22+50 T.P.	26	16.2		10.6	T.P. 135' 1X2 ABOVE.	7-13-51
20°-48' T.P.	2.2	7.7	10.7	5.5	T.P. TAPE 190 ½ CALC. (out-in)	WATER.
25°-24'			6.5	1.2	238 calc. — BRK	
25°-57'			8.1	-0.4	244 calc	
27°-36'			7.3	+0.4	261 calc.	
30°-19'			7.3	+0.4	292 "	
33°-14'			8.6	-0.9	327 "	
36°-02'			9.2	-1.5	363 "	

SHORE 117+50 S

FORM 307 10M 10-46

PLEASE RETURN TO
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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
117+50	107+50	1	R&Y	10:59	89°25'	
		2	R		90°43'	
		3	Y		89°47'	
		4	R&Y	11:07	89°30'	
		5	R		90°31'	
		6	Y		90°44'	
		7	R&Y	11:12	90°01'	
		8	R		90°03'	
		9	Y		90°07'	
		10	R&Y	11:16	90°26'	
		11	R		90°32'	
		12	Y		90°53'	
		13	R&Y	11:18	90°17'	
		14	R		90°07'	
		15	Y		89°35'	
		16	R&Y	11:20	88°45'	
		17	R	11:21	88°45'	

RANGE
117+50 S

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Survey of Beach Erosion Studies
Date ____ Survey by F.H.B. Notes M.S. Date 7-12-51
Map No. ____ Date ____ Mexico Johnson Date ____

F.B. 429 Pg. 101

FORM 307 10M 10-46

PLEASE RETURN TO
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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	
112+50	122+50	1	R & Y	7:12	89°42		
		2	R		89°13		
		3	Y		89°31		
		4	R & Y	7 18	89°56		
		5	R		89°39		
		6	Y		89°22		
		7	R & Y	7:22	89°46		
		8	R		90°18		
		9	Y		90°01		
		10	R & Y	7 27	90°01		
		11	R		90°06		
		12	Y		90°26		
		13	R & Y	7:30	90°06		
		14	R		90°08		
		15	Y		90°05		
		16	R & Y	7 36	90°42		
		17	R	7:39	90°26		
		18	Y		89°48		

RANGE 112+50 S

F.B. 1295 PG. 102 (1)

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

Survey of Beach Erosion Studies Date 7-13-57 Date X-Sec.

Survey by F.H.B. Notes M.S. Notes Chkd Checked No.

Indexed C. Johnson Date Date Date

FORM 307 10M 10-46

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LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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STATION	B. S.	H. I.	F. S.	ELEV.			Remarks
Inst. At	Sight On	#	Color	Time		Hor. Ang.	
107+50	117+50	1	R-Y	10	59	58°16'	
		2	R			55°33'	
		3	Y			54°21'	
		4	R-Y	11	07	52°26'	
		5	R			49°55'	
		6	Y			47°48'	
		7	R-Y	11	12	46°08'	
		8	R			43°07'	
		9	Y			41°09'	
		10	R-Y	11	15	39°05'	
		11	R			37°19'	
		12	Y			36°07'	
		13	R-Y	11	18	34°16'	
		14	R			33°07'	
		15	Y			31°59'	
		16	R-Y	11	20	31°24'	
		17	R	11	21	28°13'	

CUT IN
117+50 S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 Pg. 103
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by F.H.B. Notes F.F.E. Date ____
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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	
122+50	5-5	1	R&Y	7 12	6 35	Loaf coming in on range line 112+50	
		2	R		5 16		
		3	Y		[illegible]		
		4	R&Y	[illegible]	[illegible]		
		5	R		[illegible]		
		6	Y		[illegible]		
		[illegible]	R&Y	[illegible]	[illegible]		
		8	R		[illegible]		
		[illegible]	Y		[illegible]		
		10	R&Y	[illegible]	[illegible]		
		11	R		[illegible]		
		12	Y		[illegible]		
		13	R&Y	7 30	[illegible]		
		14	R		[illegible]		
		~~15~~	~~Y~~		~~[illegible]~~		
		15	Y		[illegible]		
		16 ~~17~~	R&Y	7 37	[illegible]		
		17 ~~18~~	R		[illegible]		
		18 ~~19~~	Y	7 39	[illegible]		

CUT IN 112+50 S

F.B. 29 Pg. 104

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

Survey of ____ Date ____ Date ____ No. ____

Survey by F H B Notes R J M 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.

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Do not extend notes this side of this line.

STATION 117+305

#	Color	Time	B. S. Meas. Depth	H. I. Bottom	F. S. Tide	ELEV. Adj. Depth	Remarks
			28.7				
1	R.Y.	11:00 1000	27.0 27.9	27.6	4.5	23.1	
2	R.		25.9 26.1	26.6		22.1	
3	Y.		24.5 25.5	25.0		20.5	
4	R.Y.	11:08 1008	23.5 24.0	24.2	4.5	19.7	
5	R.		22.3 24.2	22.9		18.4	
6	Y.		21.2 23.3	22.2		17.7	
7	R.Y.	11:12 1012	20.2 20.9	21.2	4.4	16.8	
8	R.		18.9 20.3	19.6		15.2	
9	Y.		17.3 17.8	18.3		13.9	
10	R.Y.	11:16 1016	15.8 17.5	16.5	4.4	12.1	
11	R.		14.8 15.7	15.7		11.3	
12	Y.		13.7 14.6	14.4		10.0	
13	R.Y.	11:19 1019	12.3 14.1	13.1	4.4	8.7	
14	R.		11.0 12.2	12.0		7.6	
15	Y.		10.0 11.4	10.7		6.3	
16	R.Y.	11:20 1020	9.0 10.9	9.8	4.4	5.4	
17	R.	11:21 1021	6.9	8.2	4.4	3.8	

BOAT
117+305

Profile No. ____ Notes Red Chkd. T.M.A. Date 8-20-57 Plotted Date 8-9-51 Checked Date ____ Job No. 8416 Division No. 4 Survey of Beach Erosion Survey by F.H.B. Notes E.R.Y. Date 7-12-51 Map No. ____ Indexed Date ____ F. B. 1795 Pg. 105 Studies

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 112+50S		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth		Remarks
1.	RY.	7:12 0612	29.9 27.5 28.5	28.3	3.2	25.1		
2	R.		26.5 28.7	27.2		24.0		
3.	Y.		25.1 26.1	26.3		23.1 ~~20.4~~		
4.	R.Y.	7:18 0618	24.1 25.3	24.8	3.1	21.7		
5.	R.		23.0 24.0	23.8		20.7		
6.	Y.		22.0 22.8	22.7		19.6		
7.	R.Y.	7:22 0622	20.8 22.7	21.5	3.1	18.4		
8.	R.		19.8 18.8	20.8		17.7		
9.	Y.		18.8 19.8	18.8		15.7		
10.	RY.	7:26 0626	17.8 18.6	18.5	3.1	15.4		
11	R.		16.4 17.0	17.1		14.0		
12	Y.		15.0 16.0	15.7		12.6		
13	RY.	7:30 0630	14.0 15.0	14.7	3.1	11.6		
14	R.		13.0 15.0	13.7		10.6		
15	Y.		12.0 13.0	13.0		9.9		
16	RY	7:37 0637	11.0 12.3	11.7	3.1	8.6		
17	R		10.0 10.8	10.8		7.7		
18	Y	7:38 0638	8.8	9.5	3.1	6.4		
19	RY.							

BOAT 112+50S

F. B. 1295 Pg. 106 Job No. 8412 Division No. V Notes Red LCW Plotted ____ Profile ____
Survey of Beach Erosion Studies Date 8-9-51 Date ____ No. ____
Survey by F.H.B. Notes Vollnagle Notes Chkd. T.M.L. Checked ____ X-Sec. ____
Indexed [illegible] Date 7-13-51 Date 8-20-51 Date ____ No. ____

76L298 307 5-49

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.		
112+50	3.5	29.0		25.507	1X2 IN HOLE	
			3.1	25.9	SAND.	SHORE ∡ 90°
			2.4	26.6	7 RT.	
			2.7	26.3	19 " BASE of WALL	
			+1.1	30.1	20 " TOP WALL	
			2.0	27.0	17 LT.	
			2.8	26.2	29 "	TOP SL.
			8.3	20.7	39 "	BOT "
T.P.	1.9	20.5	10.4	18.6	T.P. 54 "	BRK
			6.3	22	105 "	Beach
			5.8	14.7	142	TOP BRK
(TRANSION 117+50) ∡ 16°-34' T.P.	2.0	15.3	7.2	13.3	T.P. TAPE 150 (calc. 149) 1X2 STK.	
18°-41'			5.2	10.1	TAPE 170 (calc 169+)	BRK
22°-31' (T.P.	3.1	7.8	10.6	4.7	TAPE 208 (calc. 207)	WATER
25°-57'			6.3	1.5	243 calc. BRK OVER FLOOR T.S.	
28°-30'			7.0	0.8	271 calc	"
30°-40'			7.6	0.2	296 calc.	"
33°-59'			9.4	-1.6	326 calc.	" STRONG CURRENT &
38°-37'			10.4	-2.6	399+ calc	" HIGH SURF SWELLS
43°-28'			10.6	-2.8	474 calc	"
			~~12.6~~	~~-4.8~~		

SHORE 112+50 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____
Date ____ Date ____ Survey of BEACH EROSION STUDIES (MANHATTAN)
X-Sec. No. ____ Notes Chkd. T.M.I. Checked ____ Survey by CVC Notes CVC Date 7-17-13-51
Date 8-13-51 Date ____ Map No. ____ Map Chkd. ____ Date ____

79 F. B. 1299 PG. 107

76L298 307 5-49

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.		
107+50	3.8	29.7		25.62	182 IN HOLE	
			30	30.7	Sand	SHORE ∡ 90°
			29	26.2	10' RT	
			1.1	2[illegible]	21' " TOE SL.	
			25	27.2	22 LT. TOP	SL
			87	21.0	36' " TOE	SL.
T.P.	25	20.9	11.3	1[illegible]	T.P. 51' "	Beach
			54	15.5	75' "	"
			68	14.1	97' "	"
TRANS. ON 112+50			64	14.5	141' "	BRK
16°-43' - T.P.	16	15.3	72	13.7	T.P. TAPE 150' " (calc. 150) 182	
18°-19'			33	12.[illegible]	165' (calc. 165.5)	
22°-16' - T.P.	19	6.6	10.[illegible]	[illegible]	T.P. 205' (calc. 205)	WATER
25°-32'			57	0.9	239' calc.	OCEAN FLOOR
29°-30'			63	0.3	281' calc.	" "
32°-16'			80	-1.4	316' calc.	" "
37°-54'			89	[illegible]	389' calc.	" "
40°-01'			9.7	-3.1	420' "	BOILING UNDERCURRENT HIGH SURF SWELLS

SHORE 107+50 S

F.B. 129 PG. 108 80 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES (MANHATTAN) Date Date X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.M.I. Checked No.
Indexed A. C. Johnson Date 7-11-13-51 Date 8-13-51 Date

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
107+50	117+50	1	R&Y	7:51	89°15.	
		2	R		89°26.	
		3	Y		90°05.	
		4	R&Y	7:54	89°11.	
		5	R		89°14.	
		6	Y		89°47.	
		7	R&Y	7:59	89°15.	
		8	R		89°49.	
		9	Y		89°48.	
		10	R&Y	8 04	90°03.	
		11	R		89°43.	
		12	Y		89°58.	
		13	R&Y	8 075	89°58.	
		14	R		89°50'.	
		15	Y		89°50'.	
		16	R-Y	8 095	89°50'.	
		17	R		90°20'.	
		18	Y		90°27'.	
		19	R-Y	8:115	90°27'.	
		20	R	8:12	90°27'.	

RANGE
107+50 S

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8A12 Division No. V ②
X-Sec. Notes Chkd ____ Checked ____ Survey of Beach Erosion Studies
No. ____ Date ____ Date ____ Survey by E.H.B. Notes M.S. Date 7-13-51
Map No. ____ Indexed Johnson Date ____

F.B. 1298 PG. 109

FORM 30 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 102+50	Sight On 112+50	#	Color	Time	Hor. Ang.	Remarks	
		1	R-Y	8:25	88°54		
		2	R		89°39		
		3	Y		89°34		
		4	R-Y	8:32	89°37		
		5	R		89°45		
		6	Y		90°03		
		7	R-Y	8:35	89°47		
		8	R		89°11		
		9	Y		89°10		
		10	R-Y	8:39	89°34		
		11	R		90°07		
		12	Y		89°37		
		13	R-Y	8:43	89°[illegible]		
		14	R		89°45		
		15	Y		90°09		
		16	R-Y	8:44	90°11		
		17	R		90°42		
		18	Y	8:45	89°19		

RANGE 102+50 S

F.B. 1295 PG. 110 (3)
Job No. 8412 Division No. V Notes Red. Plotted
Survey of Beach Erosion Studies Date 7-13-57 Date No.
Survey by F.H.B. Notes M.S. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.
Profile

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
117+50	S-5	1	R & Y	7 51	58° 52'	Boat Coming in on
		2	R		57° 07'	Range line 107+50
		3	Y		54° 45'	
		4	R & Y	7 54	53° 47'	
		5	R		50° 34'	
		6	Y		48° [illegible]	
		7	R & Y	[illegible]	[illegible]	
		8	R		[illegible]	
		9	Y		[illegible]	
		10	R & Y	8 04	[illegible]	
		11	R		[illegible]	
		12	Y		37° [illegible]	
		13	R & Y	8 07	38° [illegible]	
		14	R		[illegible]	
		15	Y		[illegible]	
		16	R & Y	8 09	34° 46'	
		17	R		33° 27'	
		18	Y		32° 17'	
		19	R & Y	8 11	30° 25'	
		20	R	8 12	28° 57'	

CUT IN
P = 117+50 S
I = 107+50 S

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

F.B. 1729 Pg. 111

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	
112+50	S-5	1	R & Y	8 25	60° 31'	Boat Coming in on Barge line	
		2	R		58 52	102+50	
		3	Y		5[illegible] [illegible]3		
		4	R & Y	8 32	5[illegible] [illegible]		
		5	R		5[illegible] [illegible]		
		[illegible]	Y		4[illegible] [illegible]		
		7	R & Y	8 35	[illegible] [illegible]		
		8	R		4[illegible] 52		
		9	Y		4[illegible] 58		
		10	R & Y	8 39	4[illegible] [illegible]0		
		11	R		3[illegible] [illegible]6		
		12	Y		3[illegible] [illegible]9		
		13	R & Y	8 42	3[illegible] [illegible]3		
		14	R		35 [illegible]4		
		15	Y		3[illegible] [illegible]8		
		16	R & Y	8 44	3[illegible] [illegible]3		
		17	R		30 [illegible]5		
		18	Y	8 45	29 41		
		19					

CUT IN 102+50

F.B. 7295 PG. 112
Survey of Beach Erosion Studies
Survey by Blanchard Notes Mitchell
Indexed A. C. Johnson Date
Job No. 8412 Division No. V
Notes Red. Plotted
Date Date
Notes Chkd. Checked
Date Date
Profile No.
X-Sec. No.

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION 1077505

#	Color	Time	B. S. Meas. Depth	H. I.	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
				30.0				
1	RY.	7:50 0650	27.6	28.3	28.4	3.0	25.4	
2	R.		26.1	27.2	26.8		23.8	
3	Y.		24.9	26.9	25.7		22.7	
4	R.Y.	7:54 0654	23.9	25.0	24.9	3.0	21.9	
5	R.		22.9	24.3	23.6		20.6	
6	Y.		21.8	23.0	22.6		19.6	
7	R.Y.	7:59 0659	20.8	22.0	21.5	3.0	18.5	
8	R.		19.8	20.5	20.5	3.0	17.5	
9	Y.		18.5	19.8	19.2	2.9	16.3	
10	RY.	8:04 0704	17.5	18.9	18.3	2.9	15.4	
11	R.		16.5	16.6	17.3		14.4	
12	Y.		15.5	16.2	15.9		13.0	
13	R.Y.	8:07 0707	14.5	15.8	15.1	2.9	12.2	
14	R.		13.1	14.2	14.0		11.1	
15	Y.		12.1	14.6	12.8		9.9	
16	R.Y.	8:09 0709	11.1	12.8	12.3	2.9	9.4	
17	R.		10.1	12.2	11.0		8.1	
18	Y.		9.1	9.9	10.1		7.2	
19	R.Y.	8:11 0711	7.9	8.8	8.6	2.9	5.7	
20	R	8:12 0712	6.7		7.4	2.9	4.5	

BOAT
10+50 S

Profile Notes Red. Louis Plotted _____ Job No. 2416 Division No. 4 F. B. 1298 (Pg. 113)
No. _____ Date 8-9-51 Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.L. Checked _____ Survey by EH&R Notes ERK Date 7-13-51
No. _____ Date 8-22-51 Date _____ Map No. _____ Indexed _____ Date _____

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

F. B. 1295 Pg. 1124 Job No. 8412 Division No. K Notes Red. Ewc Plotted ____ Profile
Survey of Beach Erosion Study Date 8-9-51 No. ____
Survey by F.H.B. Notes Vellnagle Notes Chkd. T.M.J. Checked ____ X-Sec.
Indexed A. C. Johnson Date 7-13-51 Date 8-20-51 No. ____

STATION 102+30 S		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	~~Meas. Depth~~	Bottom	Tide	Adj. Depth		Remarks
			29.4					
1	R.Y.	8:25 0725	27.1 28.3	27.9	2.8	25.1		
2	R.		26.1 26.1	26.8		24.0		
3	Y.		24.8 25.8	25.2		22.4		
4	R.Y.	8:31 0731	23.8 24.5	24.5	2.8	21.7		
5	R.		22.8 23.4	23.4		20.6		
6	Y.		21.8 22.3	22.3		19.5		
7	R.Y.	8:35 0735	20.7 21.2	21.2	2.8	18.4		
8	R.		19.5 20.0	20.1		17.3		
9	Y.		18.5 19.0	19.0		16.2		
10	R.Y.	8:39 0739	17.1 17.7	17.7	2.8	14.9		
11	R.		15.7 16.8	16.4		13.6		
12	Y.		14.3 16.1	15.1		12.3		
13	R.Y.	8:42 0742	13.2 14.7	14.2	2.8	11.4		
14	R.		12.2 12.9	13.0		10.2		
15	Y.		11.0 12.0	11.6		8.8		
16	R.Y.	8:44 0744	9.9 10.8	10.6	2.8	7.8		
17	R.		8.9 10.0	9.5		6.7		
18	Y.	8:45 0745	6.9	7.9	2.8	5.1		BOAT 102+30 S
19	R.Y.							
20	R.							

76L298 307 5-49

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.

15-8
4-7
1-1

STATION	B. S.	H. I.	F. S.	ELEV.			
102+50	46	30.8		26 243	1X2		
			42	266		Sand	SHORE ∡ 90°
			39	26.9		12 RT	BRK
			31	277		17 "	Toe SL.
			32	276		20 LT	Top SL.
T.P.	15	22.0	103	205	T.P	35 "	Toe SL
			67	153		73 "	Beach.
			80	140		102 "	"
			74	146		135 "	"
TRANS. OF STA. 107+50			75	145		146 "	Top BRK.
16°-33' T.P.	20	15.8	82	138	T.P.	TAPE 150 " (Calc. 149) 1X2	
18°-16'			40	118		166 (165+calc.)	
20°-09'			71	87		184' (Calc 183.5)	
22°-49' T.P.	22	6.9	111	47	T.P	211' (Calc. 210.3)	WATER
25°-45'			56	13		241 Calc.	ocean FLOOR
28°-41'			78	-09		275 Calc.	" "
31°-05'			68	+01		300+ "	" "
35°-07'			86	-17		352 "	" "
37°-05'			89	-20		378 "	" "
41°-19'			95	-26		440 "	" "

STRONG N'ly CURRENTS.

SHORE
102+50 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1291 PG. 113A
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (MANHATTAN)
Notes Chkd. T.M.I. Checked ____ Survey by C.V.C. Notes C.V.C. Date 7-11-13-51
Date 8-13-51 Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 5-49

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.

13.9
4.7
9 2

STATION	B. S.	H. I.	F. S.	ELEV.		
97+50	1.9	28.9		26.98	1X1 IN HOLE	
" "			0.9	2[illegible]	SAND	SHORE ∡ 90°
			1.4	2[illegible]5	12' RT.	BASE of CONC. WALL
			+0.1	2[illegible]	13 "	+3.4 TOP " "
			1.3	2[illegible]6	42' LT.	TOP CONC. END.
			4.8	2[illegible]1	43' "	BASE " "
			5.9	2[illegible]0	48 "	
T.P.	1.0	18.8	11.1	1[illegible]	T.P. 62 "	
			2.5	16.3	68 "	TOE SL.
			4.8	14.0	94 "	BRK.
TRANS. ON 92+50			4.1	14.7	156 "	"
∡ 17°-30' T.P.	1.8	15.9	4.7	14.1	CLOTH TAPE. T.P. 160 "	(calc. 158) 1X2
18°-31'			3.1	12.8	170 "	(167.4 calc.)
20°-49'			6.9	9.0	193	(190+ calc.)
22°-36' T.P.	1.9	8.6	9.2	6.7	T.P. 210. - (308' calc.)	WATER.
27°-02'			7.7	[illegible]9	255 Calc.	OCEAN FLOOR.
31°-41'			8.9	-0.3	309 "	
34°-45'			10.1	-1.5	347 "	STRONG N'LY UNDER CURRENTS & HIGH SURF.
40°-38'			13.9	-2.3	429 "	
45°-05'			11.1	-2.5	~~[illegible]~~ 500 "	

SHORE 97+50 S

F.B. 1295 PG. 114 82
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES (MANHATTAN) Date Date X-Sec.
Survey by C.V.C. RUMLEY Notes C.V.C. Notes Chkd. T.M.I. Checked No.
Indexed A. C. Johnson Date 7-11-13-57 Date 8-13-57 Date

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
97+50	87+50	1	R&Y	9 06	90° 19	
		2	R		90° 19	
		3	Y		90° 11	
		4	R&Y	9:10	90° 34	
		5	R		89° 53	
		6	Y		90° 28	
		7	R&Y	9:14	90° 09	
		8	R		90° 35	
		9	Y		89° 45	
		10	R&Y	9:22	89° 51	
		11	R		89° 38	
		12	Y		89° 43	
		13	R&Y	9:25	89° 52	
		14	R		89° 52	
		15	Y		89° 52	
		16	R&Y	9:26	89° 36	
		17	R		89° 47	
		18	Y		89° 30	
		19	R&Y	9 27	89 24	

RANGE
97+50 S

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V ④ F.B. 1995 Pg. 115
X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Survey of Beach Erosion Studies
Survey by E.H.B. Notes M.S. Date 7-13-51
Map No. ____ Date ____ Index G. Johnson Date ____

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	
92+50	S- 86+10.84	1	R & Y	9:40	89°31		
		2	R		90°25		
		3	Y		90°00		
		4	R & Y	9:45	90°18		
		5	R		89°54		
		6	Y		90°10		
		7	R & Y	9:47	90°18		
		8	R		91°06		
		9	Y		89°46		
		10	R & Y	9:52	89°52		
		11	R		90°45		
		12	Y		90°27		
		13	R & Y	9:55	90°13		
		14	R		90°18		
		15	Y		90°19		
		16	R & Y	9:56	89°38		
		17	R		90°11		
		18	Y		90°09		
		19	R & Y	9:57	90°11		

RANGE 92+50 S

F.B. 129 PG. 116 (5) Job No. 8412 Division No. V Notes Red — Plotted — Profile
Survey of Beach Erosion Studies Date 7-13-51 Date — No. — X-Sec.
Survey by F.H.B. Notes M.S. Notes Chkd — Checked — Date — No.
Indexed A. C. Johnson Date — Date — Date

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
87+50	S-S	1	R&Y	9.06	59 00	Boat comming in on
		2	R		57 14	Range line 97+50
		3	Y		55 52	
		4	R&Y	9:10	52 01	
		5	R		50 06	
		6	Y		48 07	
		7	R&Y	9:14	46 19	
		8	R		44 32	
		9	Y		43 03	
		10	R&Y	9:23	41 [illegible]	
		11	R		39 [illegible]	
		12	Y		38 17	
		13	R&Y	9:25	36 16	
		14	R		35 [illegible]	
		15	Y		34 25	
		16	R&Y	9:26	32 58	
		17	R		32 09	
		18	Y		30 32	
		19	R&Y	9:27	28 28	

Cut in 97+50 S

Profile
No. ____ Date ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ✓ F.B. 9295 Pg. 117
X-Sec. No. ____ Date ____ Notes Chkd. ____ Date ____ Checked ____ Date ____ Survey of Beach Erosion Studies
Survey by FHB Notes ROM Date 7/13/51
Map No. ____ Indexed ____ Date ____ Johnson

F.B. 1295 PG. 118 | Job No. 8412 | Division No. ✓ | Notes Red. | Plotted | Profile

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

Survey by Blanchard | Notes Mitchell | Notes Chkd. | Checked | X-Sec.

Indexed A. C. Johnson | Date | Date | No.

~~Rt~~ CUT IN
92+50

FORM 30 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. Sight At On 92+50 5-4	#	Color	Time	Hor. Ang.		Remarks
	1	RdY	9 40	56		
	2	R		56		
	3	Y		55		
	4	RdY	9 25	56		
	5	R		56		
	6	Y		56		
	7	RdY	9 47	4		
	8	R		4		
	9	Y		4		
	10	RdY	9 52	3		
	11	R		3		
	12	Y		3		
	13	RdY	9 50	3		
	14	R		3		
	15	Y		3		
	16	RdY	9 56	2		
	17	R		2		
	18	Y		2		
	19	RdY	9 57	2		

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.

Profile No. ____ Notes Red. LWC Plotted LWC Job No. 8-9-51 Division No. V F. B. 129 - P419
X-Sec. No. ____ Notes Chkd. T.M. Date 8-24-51 Checked ____ Date 8-24-51 Submitted by Beach Engineer Studies
Notes by F.K.B. Notes E.R.K. Date 7-13-51
Date ____ Date ____ Made by ____ Date ____

STATION 97+50 S	B. S.	H. I.	F. S.	ELEV.			Remarks
Color	Time	Depth	Bottom	Tide	Adj. Depth		
		30.0					
1 R.Y.	9:06 0806	26.9 28.8	27.9	2.7	25.2		
2 R.		25.9 27.5	26.9		24.2		
3 Y.		24.9 26.3	25.8		23.1		
4 R.Y.	9:10 0810	23.9 24.5	24.7	2.7	22.0		
5 R.		22.4 23.2	23.1		20.4		
6 Y.		21.4 22.6	22.0		19.3		
7 R.Y.	9:14 0814	20.4 21.1	21.1	2.7	18.4		
8 R.		19.1 20.0	19.8		17.1		
9 Y.		18.1 19.0	18.7		16.0		
10 R.Y.	9:23 0823	16.8 17.8	17.5	2.7	14.8		
11 R.		15.1 16.8	16.0	2.7	13.3		
12 Y.		14.1 15.3	15.0	2.6	12.4		
13 R.Y.	9:25 0825	12.9 14.9	13.7	2.6	11.1		
14 R.		11.9 15.5	12.9		10.3		
15 Y.		10.9 13.0	12.4		9.8		
16 R.Y.	9:26 0826	9.9 11.3	10.9	2.6	8.3		
17 R.		8.9 10.1	9.7		7.1		
18 Y.		7.8 7.2	8.6		6.0		
19 R.Y.	9:27 0827	5.5	6.1	2.6	3.5		

80 9 T
97+50 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.

F. B. 195 Pg. 120 Job No. 8412 Division [redacted]
Survey of Beach Erosion Study Notes Vallona Notes Red. LCM Plotted T.M.L. Date 8-24-51 No. Profile
Survey by F.H.B. Notes Checked T.M.L. Date 8-24-51 X-Sec.
Indexed E. C. J. Date 7-13-51 Date 8-24-51 No.

STATION 92+50S

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			29.6				
1	R.Y.	9:39 0839	27.0	27.9	2.6	25.3	
			28.7				
2	R.		26.0	26.9		24.3	
			27.1				
3	Y.		25.0	25.7		23.1	
			26.2				
4	R.Y.	9:45 0845	24.0	24.7	2.6	22.1	
			24.7				
5	R.		22.9	23.5		20.9	
			23.6				
6	Y.		21.7	22.3		19.7	
			21.9				
7	R.Y.	9:47 0847	20.0	20.6	2.6	18.0	
			20.4				
8	R.		18.8	19.3		16.7	
			19.1				
9	Y.		17.1	17.8		15.2	
			18.0				
10	R.Y.	9:52 0852	15.9	16.6	2.6	14.0	
			16.8				
11	R		14.8	15.5		12.9	
			15.7				
12	Y.		13.8	14.4		11.8	
			13.1				
13	R.Y.	9:54 0854	12.5	12.7	2.6	10.1	
			13.0				
14	R.		11.3	11.9		9.3	
			12.3				
15	Y.		10.3	11.0		8.4	
			10.8				
16	R.Y.	9:56 0856	8.8	9.5	2.6	6.9	
			9.8				
17	R		7.5	8.3		5.7	
			8.4				
18	Y.		6.4	7.1		4.5	
			8.4				
19	R.Y.	9:57 0857	5.4	6.4	2.6	3.8	

BOAT
92+50S

76L298 307 5-49

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.

16.1
47
114

STATION	B. S.	H. I.	F. S.	ELEV.			
92+50	30	311		28 11		1X1 FL.	SHORE ∡ 90°
			34	277		6' RT.	Toe SL.
			18	293		13' LT.	BRK
			26	~~28.5~~ 28.5		25 "	TOP SL.
T.P.	1.6	209	118	193	T.P.	52 "	
			41	168		63 "	Toe SL.
			7.0	139		106 "	BRK
			66	143		152 "	"
TRANS. ON 97+50 ∡ 19°-35' T.P.	2.2	161	66 7.0	143 13.9	T.P.	TAPE 160 " SAND. 1X2	TOP SL.
21°-47'			46	115		178' (calc 178')	
24°-11' T.P.	50	97	77 114	84 47	T.P.	200' (calc. 200) 224' (calc. 224.5)	WATER
27°-20'			84	13		258' calc.	ocean FLOOR
30°-06'			111	-11		290 calc.	" "
37°-03'			125	-2.8		377 "	" " "

SHORE 92+50 S

(STRONG N'LY UNDERCURRENTS, HIGH SURF SWELLS.)

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1298 PG. 121
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (MANHATTAN)
Notes Chkd. T.M.I. Checked ____ Survey by C.V. CRUMLEY Notes C.V.C. Date 7-11-13-51
Date 8-13-51 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 5-49

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.

147
70.0

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
87+50	17	29.7 ~~28.7~~		27.98	NEW 1X2 IN HOLE	
			0.9	28.8 ~~27.8~~	Sand	SHORE ∡ 90°
			0.0	29.7 ~~29.7~~	8' RT TOE	SL.
			3.1	26.6 ~~26.6~~	33 LT TOP	SL
			8.2	21.5 ~~20.5~~	48 " TOE	SL.
T.P.	16	19.7 ~~18.7~~	11.6	18.1 ~~17.1~~	T.P. 55 "	BRK.
			5.5	14.2 ~~13.2~~	92 "	"
TRANS. AT 92+50			5.2	14.5 ~~13.5~~	145 "	"
416°-38 T.P.	18	15.7 ~~14.7~~	5.8	13.9 ~~12.9~~	T.P. TAPS -150 " (Calc. 149.4) 1X2	on Beach - TOP SL.
19°-54			6.1	9.6 ~~8.6~~	182 " (Calc 181)	
22°-30' T.P	40	9.7 ~~8.7~~	10.0	5.7 ~~4.7~~	T.P. 212 " (Calc. 207)	WATER
26°-42'			7.7	2.0 ~~1.0~~	252 Calc.	OCEAN FLOOR.
30°-49'			10.1	-0.4 ~~-1.4~~	299 "	" "
33°-33'			11.9	-2.2 ~~-3.2~~	332	" "
34°-53'			12.8	-3.1 ~~-4.1~~	347	" "

SHORE 87+50 S

F.B. 1295 PG. 122 84
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES (MANHATTAN) Date Date X-Sec.
Survey by C.V.C. Notes C.V.C. Notes Chkd. T.M.I. Checked No.
Indexed [illegible] Date 7-11-16-51 Date 8-13-51 Date

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
87+50	97+50	1	R-Y	10:17	89° 05	
		2	R		88° 56	
		3	Y		89° 00	
		4	R-Y	10:20⁵	89° 03	
		5	R		90° 15	
		6	Y		90° 00	
		7	R-Y	10:25	90° 37	
		8	R		90° 04	
		9	Y		90° 04	
		10	R-Y	10:31	89° 42	
		11	R		90° 08	
		12	Y		90° 05	
		13	R&Y	10:34⁵	90° 05	
		14	R		89° 59	
		15	Y		90° 13	
		16	R-Y	10:39	91° 20	
		17	R		90° 16	
		18	Y	10:40	90° 36	

RANGE
87+50 S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V ⑥ F.B. 129 Pg. 123
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by FHB Notes M.S. Date 7-13-51
Date ____ Date ____ Map No. ____ Indexed Job no. ____ Date ____

FORM 30 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 82+50	Sight On S-4 86+10 84	#	Color	Time	Hor. Ang.	Remarks	
		1	R & Y	10 54	90 06		
		2	R		[illegible] 51		
		3	Y		90 00		
		4	R & Y	10 58	[illegible] 21		
		5	R		90 02		
		6	Y		90 23		
		7	R & Y	11 00	[illegible]		
		8	R		[illegible]		
		9	Y		90 24		
		10	R & Y	11 04	[illegible]		
		11	R		90 29		
		12	Y		[illegible] 41		
		13	R & Y	11 08	[illegible]		
		14	R		90 41		
		15	Y		[illegible]		
		16	R & Y	11 13	[illegible]		

RANGE 82+50S

F.B. 9295 PG 12 ① Job No. 8412 Division No. V Notes Red — Plotted — No. — Profile
Survey of Beach Erosion Studies Date 7-13-51 Date — X-Sec.
Survey by F.H.B Notes M.S Notes Chkd — Checked — No.
Indexed A. C. Jo[illegible] Date — Date — Date

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
97+50	S-4	1	R&Y	10 17	60° 44'	[illegible] Line # 87+50
		2	R		59° 45'	
		3	Y		56 46	
		4	R&Y	10 21	55 02	
		5	R		51 48	
		6	Y		48 25	
		7	R&Y	10 25	46 12	
		8	R		44 03	
		9	Y		43 34	
		10	R&Y	10 31	41 12	
		11	R		39 57	
		12	Y		39 01	
		13	R&Y	10 34	37 28	
		14	R		35 42	
		15	Y		34 34	
		16	R&Y	10 39	32 40	
		17	R		30 44	
		18	Y	10 40	29 29	

CUT IN 87+50 S.

Profile No. ____ Date ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____ F.B. 729 PG 125

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

Survey by RJM Notes RJM Date 7/13/51

Map No. ____ Date ____ Indexed A.C. Johnson Date ____

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	
92+50	S-4	1	R&Y	10 55	5 [illegible] 17	Beat Coming in on Range Line 82+50	
		2	R		5 [illegible] 1		
		3	Y		5 51		
		4	R&Y	10 58	[illegible] 19		
		5	R		[illegible]		
		6	Y		[illegible]		
		7	R&Y	11 005	[illegible] 9		
		8	R		[illegible]		
		9	Y		3[illegible] 13		
		10	R&Y	11 04	[illegible]		
		11	R		3[illegible] 7		
		12	Y		3[illegible] 9		
		13	R&Y	11 08	3[illegible] 6		
		14	R		[illegible]		
		15	Y		2[illegible] 0		
		16	R&Y	11 14	[illegible]		

CUT IN 82+50 S

F.B. 1295 PG. 126

Job No. 8412 Division No. [illegible] Notes Red ____ Plotted ____ Profile ____

Survey of Beach Erosion Studies Date ____ No. ____

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

Indexed [illegible] 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 87+50 S

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	R.Y	10:17 0917	29.0 27.1 27.8	27.7	2.6	25.1	
2	R.		26.1 26.8	26.7		24.1	
3	Y		25.1 24.1	25.7		23.1	
4	RY	10 21 0921	26.1 25.4	24.8	2.6	22.2	
5	R.		23.0 24.0	23.8		21.2	
6	Y.		21.9 22.0	22.6		20.0	
7	R.Y.	10:25 0925	20.9 21.0	21.3	2.6	18.7	
8	R.		19.1 19.1	19.7		17.1	
9	Y.		17.8 18.9	18.2		15.6	
10	R.Y.	10:31 0931	16.8 17.5	17.5	2.6	14.9	
11	R.		15.5 16.3	16.2		13.6	
12	Y.		14.5 15.3	15.1		12.5	
13	R.Y.	10:35 0935	13.3 14.6	14.0	2.6	11.4	
14	R.		12.2 13.2	13.0		10.4	
15	Y.		11.0 11.0	11.7		9.1	
16	R.Y.	10:39 0939	9.8 10.3	10.2	2.6	7.6	
17	R.		8.5 8.9	9.1		6.5	
18	Y	10:41 0941	6.8	7.5	2.6	4.9	

BOAT 87+50 S

Profile Notes Red. Lour Plotted Job No. 8412 Division No. V F.B. 1295 Pg. 127
No. Date 8-9-51 Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.I. Checked Survey by F.H.B. Notes E.R.V. Date 7-13-51
No. Date 8 20 51 Date Map No. Indexed Johnson Date

76L298 307 4-50

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

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Do not extend notes this side of this line.

F. B. 1295 Pg. 728 Job No. 8412 Division No. V Notes Red. Lew Plotted _____ Profile _____
Survey of Beach Erosion Studies Date 8-9-51 Date _____ No. _____
Survey by E.H.B. Notes Vallnagle Notes Chkd T.M.I. Checked _____ X-Sec. _____
Indexed A. C. Johnson Date 7-13-51 Date 8-20-51 Date _____ No. _____

STATION 82+50S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R.Y.	10:54 0954	28.8 27.3 27.5	27.8	2.7	25.1	
2	R		26.0 26.8	26.5		23.8	
3	Y.		24.6 24.8	25.3		22.6	
4	R.Y.	10:57 0957	23.2 24.1	23.7	2.7	21.0	
5	R.		22.2 22.9	22.8		20.1	
6	Y.		21.1 21.7	21.7		19.0	
7	R.Y.	11:00 1000	19.8 19.9	20.4	2.7	17.7	
8	R.		18.8 18.8	19.2		16.5	
9	Y.		17.3 17.3	17.8		15.1	
10	R.Y.	11:04 1004	16.1 15.9	16.5	2.7	13.8	
11	R.		14.8 15.1	15.2		12.5	
12	Y.		13.5 13.7	14.0		11.3	
13	R.Y.	11:08 1008	12.4 12.3	12.8	2.7	~~10.2~~ 10.1	
14	R		10.9 7.5	11.4		8.7	
15	Y.		6.0 10.5	6.5		3.8	
16	R.Y.	11:13 1013	9.0	9.5	2.7	6.8	
17	R.						
18	Y.						
19	R.Y.						

BOAT 82+50S

76L298 307 5-49

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Do not extend notes this side of this line.

23-57 15.8
22-03 203 4.7
11.1

STATION	B. S.	H. I.	F. S.	ELEV.		
82+50	28	316		28 80	New 1X2 in hole	
			19	297	Sand	Shore ∡ 90°
			1.1	305	Rt. 7'	
			00	316	Rt. 13'	
			32	284	Lt. 22' Top of Bank	
T.P.	08	205	119	197	T.P. " 46' Brk.	
			46	159	" 68'	
			70	135	" 95' Brk.	
			65	140	" 123"	
TRANS. AT 77+50			60	145	" 159 Brk - Top Slop	
17°39' T.P.	1.5	15.8	62	143	T.P. TAPE 160 X 1X2 set (calc. 159) out	
20°-01'			52	10.6	" 183 (calc. 184)	
23°-57' T.P.	34	8.1 ~~8.0~~	111	4.7	T.P. " 222 ~~214~~ calc.	Water
28°-22'			67	1.4 ~~1.3~~	270 calc.	Ocean Floor Brk.
33°-11'			93	-1.2 ~~-1.2~~	327 "	
36°-14'			115	-3.4 ~~-3.5~~	366 "	
39°-28'			114	-3.3 ~~-3.4~~	412 "	
42°-33'			115	-3.4 ~~-3.5~~	459 "	
45°-22'			116	-3.5 ~~-3.6~~	507 "	

SHORE 82+50 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 129 Pg. 129
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (MANHATTAN)
Notes Chkd. T.M.I. Checked ____ Survey by C.V. CRUMLEY Notes C.V. Date 7-16-51
Date 8-13-51 Date ____ Map No. ____ Date ____

85

76L298 307 5-49

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15.4
47
10.7

STATION	B. S.	H. I.	F. S.	ELEV.		
77+50	42	331		2895	New 1X2 in hole	
			35	296	Sand	SHORE ∡ 90°
			23	308	Rt 8'	
			04	327	Rt 15'	
			42	289	Lt 22' Top Bank	
T.P.	13	232	112	219	T.P. " 40' Brk. Toe Slope	
			57	175	" 63'	
			85	147	" 100' Brk	
TRANS AT 82+50			85	147	" 127	
∡ 17°-40' TP	1.2	154	90	142	T.P. Lt. 160' TAPE Top Brk Calc. 159.3 Sand-1X2-	
18°-55'			26	128	" 172' (calc 171.3)	
21°-03'			65	89	" 193' (calc 192.4)	
			99	55	" 217'	WATER
24°-06' T.P.	18	65	107	47	T.P. " 224 (calc. 223.6)	ocean FLOOR
27°-42'			45	20	262 Calc.	" "
31°-29'			67	-02	306 "	" "
33°-25'			83	-18	330 "	
35°-30'			95	-30	357 "	
37°-36'			97	-32	385 "	
41°-34'			97	-32	443 "	
45°-46'			104	-39	513 "	

SHORE 77+50S

F.B. 1295 PG. 130 86
Job No. 8412 Division No.
Survey of BEACH EROSION STUDIES
Survey by C.V. CRUMLEY Notes C.V.C.
Indexed R. C. Johnson Date 7-16-51
Notes Red. Date
Plotted Date
Checked Date
Profile No.
X-Sec. No.

76L298 307 4-50

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Profile No.____ Notes Red____ Date____ Plotted____ Date____ Job No. 8412 Division No. V Survey of Beach Erosion Studies F. B. 1291 Pg. 131
X-Sec. No.____ Notes Chkd____ Date____ Checked____ Date____ Survey by F.H.B. Notes M.S. Date 7-16-51 Map No.____ Thos. C. Johnson Date____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
77+50 S-3A 75+00	1	R&Y	7 02	90°53		
	2	R		89°56		
	3	Y		90°03		
	4	R&Y	7 10	90°03		
	5	R		90°12		
	6	Y		89°56		
	7	R&Y	7:15	90°14		
	8	R		89°52		
	9	Y		90°30		
	10	R&Y	7:18	90 37		
	11	R		90°18		
	12	Y		90°31		
	13	R&Y	7:21	90°14		
	14	R		90°16		
	15	Y		90°24		
	16	R&Y	7 24	90°12		
	17	R		90°27		
	18	Y		90°32		
	19	R&Y	7:28	90°00		
	20	R		90°02		

RANGE
77+50 S

F. B. 1295 Pg. 132 Job No. 8412 Division No. V Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-16-51 Date No.

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

Indexed A. C. Johnson Date Date Date No.

RANGE
77+50 S

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
77+50 S-3A 75+00	21	Y	7:30	89 58		

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	
67+50	S-3A 75+00	1	R & Y	7:01	61° 47'		
		2	R		58° 00'		
		3	Y		56° 14'		
		4	R & Y	7:10	51° 39'		
		5	R		50° 23'		
		6	Y		48° 21'		
		7	R & Y	7:15	46° 20'		
		8	R		45° 02'		
		9	Y		43° 09'		
		10	R & Y	7:17	42° 02'		
		11	R		40° 26'		
		12	Y		39° 31'		
		13	R & Y	7:21	38° 43'		
		14	R		37° 03'		
		15	Y		35° 19'		
		16	R & Y	7:23	34° 14'		
		17	R		31° 51'		
		18	Y		30° 48'		
		19	R & Y	7:28	29° 24'		
		20	R		28° 02'		

CUT IN
77+50 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 129 Pg. 133
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes MACK Date 7-16-51
No. ____ Date ____ Date ____ Map No. ____ Index Date ____

F. B. 1295 Pg. 134 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

Survey by Blanchard Notes MACK Notes Chkd. _____ Checked _____ X-Sec.

Indexed E. C. Johnson Date 7-16-51 Date _____ Date _____ No. _____

Cut in
77+50S

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At 67+50 On S3A 75+00	# 21	Color Y	Time 7:30	Hor. Ang. 26 51	

76L298 307 4-50

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Do not extend notes this side of this line.

STATION 77+50S

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			29.6				
1	R.Y.	7:01	28.2	28.7	3.2	25.5	
		0601	28.9				
2	R.		27.2	27.8	3.3	24.5	
			27.8				
3	Y.		26.2	26.7	3.3	23.4	
			26.3				
4	R.Y.	7:10	25.0	25.4	3.4	22.0	
		0610	25.1				
5	R		24.0	24.4		21.0	
			24.4				
6	Y.		23.0	23.5		20.1	
			23.2				
7	R.Y.	7:14	22.0	22.4	3.4	19.0	
		0614	22.0				
8	R		21.0	21.3	3.4	17.9	
			21.2				
9	Y.		20.0	20.4	3.5	16.9	
			20.0				
10	R.Y.	7:17	19.0	19.3	3.5	15.8	
		0617	18.9				
11	R.		17.9	18.2		14.7	
			18.2				
12	Y.		16.8	17.3		13.8	
			17.0				
13	R.Y.	7:20	15.8	16.2	3.5	12.7	
		0620	16.0				
14	R.		14.7	15.1	3.5	11.6	
			15.0				
15	Y.		13.7	14.1	3.6	10.5	
			13.4				
16	R.Y.	7:23	12.5	12.8	3.6	9.2	
		0623	12.0				
17	R.		11.2	11.5	3.6	7.9	
			11.9				
18	Y.		10.0	10.4	3.7	6.7	
			10.1				
19	R.Y.	7:28	9.0	9.4	3.7	5.7	
		0628	9.1				
20	R.		7.9	8.3		4.6	

BOAT
77+25S

Profile No. ____ Notes Red. Plotted ____ Job No. 8412 Division No. Y F. B. 1295 Pg. 135
Date 8-9-51 Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. T.M.L. Checked ____ Survey by E.H.B. Notes E.R.V. Date 7-16-51
Date 8-20-51 Date ____ Map No. ____ Indexed J. Johnson Date ____

F. B. 1295 PG. 136 Job No. 8412 Division No. V Notes Red. L.C.W. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by F.H.B. Notes Vollnogle Notes Chkd. T.M.I. Checked X-Sec.

Indexed R. C. Johnson Date 7-16-51 Date 8-20-51 Date No.

BOAT
77+50S

STATION	B.S.	H.I.	F.S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
21	Y	7:30	8.5	7.4	5.7	3.7	
	R.Y	0630	6.9				

76L298 307 4-50

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76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.		
72+50	27	308		28.14	old 1 X 2"	
			0.8	300	Sand,	SHORE ∠ 90°
			11	297	28 LT.	TOP SL.
			11.2	196	50 "	" "
T.P.	01	186	12.3	185	T.P. 55 "	
			46	140	105 "	
TRAV. AT 67°-50'			3.9	147	140 "	
19°-00' T.P.	15	154	47	139	T.P. 174 "	(173 calc.)
22°-31'			67	87	207 "	(206 calc.)
25°-04' T.P.	26	73	107	47	T.P. 236 "	(234 calc.)
29°-48'			58	15	286 Calc.	
32°-41'			78	-0.5	321 "	
37°-03'			105	-3.2	377 "	
40°-23'			96	-2.3	425 "	
43°-17'			101	-2.8	471 "	
46°-12'			111	-3.8	521 "	
48°-12'			125	-5.2	559 "	

SHORE
72+50 S.

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 129 PG. 137
Date ____ Date ____ Survey of BEACH EROSION STUDIES (MANHATTAN)
X-Sec. No. ____ Notes Chkd. T.M. Checked ____ Survey by C.V.C. Notes C.V.C. Date 7-16-51
Date 8-13-51 Date ____ Map No. ____ Index Johnson Date ____

76L298 307 5-49

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Do not extend notes this side of this line.

1.7
4.7
7.0

STATION	B. S.	H. I.	F. S.	ELEV.		
67+50	2.0	31.5		29.47	NEW 1X2 IN HOLE	SHORE ∡ 90°
" "			14	30.1	sand.	
			03	31.2	9' RT.	T.S.
			21	29.4	22' LT	Top SL
			9.6	21.9	42' "	Toe "
T.P.	09	20.2	12.2	19.3	T.P. 59 "	
			58	14.2	115 "	
			53	14.7	142 "	
			56	14.5	182 "	
TRANS. AT 62+50			83	11.9	207 "	
24°-27' T.P	2.9	11.7	114	8.3	T.P TAPE 228 " (calc 227.4)	
27°-29' T.P.	24	7.1	70	4.7	T.P. 260 " (calc 260)	Water
32°-34'			61	1.0	319 calc.	ocean FLOOR
35°-40'			83	-1.2	359 calc.	" "
39°-26'			105	-3.2	411 "	" "
43°-01'			94	-2.3	467	
45°-45'			100	-2.7	513 "	
48°-33'			110	-3.7	566 "	

SHORE 67+50 S

F.B. 129 Pg. 938 | 88 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile
Survey of BEACH EROSION STUDIES (MANHATTAN) | Date | Date | No.
Survey by C.V.C. RUMLEY | Notes C.V.C. | Notes Chkd. T.M.I. | Checked | X-Sec.
Indexed A. C. Johnson | Date 7-16-51 | Date 8-13-51 | Date | No.

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STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
72+50	62+50	1	R & Y	7:53	90°08	
		2	R		89°41	
		3	Y		90°10	
		4	R & Y	7 58	89°53	
		5	R		90°11	
		6	Y		89°50	
		7	R & Y	8:01	90°01	
		8	R		89°37	
		9	Y		89 34	
		10	R & Y	8:06	89°47	
		11	R		89°55	
		12	Y		89°58	
		13	R & Y	8:08	90°02	
		14	R		90°08	
		15	Y		89°47	
		16	R & Y	8:11	89°39	
		17	R		89°56	
		18	Y		89°17	
		19	R & Y	8:17	89°41	
		20	R		89°30	

RANGE
72+50S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V ② F. B. 1295 Pg. 139
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-16-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1295 Pg. 140 Job No. 8412 Division No. V Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-16-51 Date No.

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

Indexed E. C. Johnson Date Date Date No.

RANGE
72+50 S

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks
72+50 62+50	21	Y	8 18	[illegible]	
	22				

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
62+50	72+50	1	R & Y	7:52	58°43'	–	
		2	R		55°41'	–	
		3	Y		51°52'	–	
		4	R & Y	7:58	49°09'	–	
		5	R		47°37'	–	
		6	Y		47°01'	–	
		7	R & Y	8:01	46°02'	–	
		8	R		44°22'	–	
		9	Y		43°04'	–	
		10	R & Y	8:06	41°59'	–	
		11	R		40°57'	–	
		12	Y		40°04'	–	
		13	R & Y	8:07	38°51'	–	
		14	R		36°53'	–	
		15	Y		35°30'	–	
		16	R & Y	8:11	33°26'	–	
		17	R		32°04'	–	
		18	Y		31°00'	–	
		19	R & Y	8:16	30°06'	–	
		20	R		28°26'	–	

Gut in 72+50 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. S. 1295 Pg. 14
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes MACK Date 7-16-51
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1295 Pg. 142 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by Blanchard Notes MACK Notes Chkd. Checked X-Sec.

Indexed E. C. Johnson Date 7-16-51 Date Date No.

CUTIN

72+50S

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Bl. Ht.					
At Cn	#	Color	Time	Hor. Ang.	
62+50 72+50	21	Y	8:18	21 [illegible]	-

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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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 72 X 30Y #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
			29.8				
1	R.Y.	7:52	28.2	28.7	3.9	24.8	
		0652	28.1				
2	R.		27.1	27.4		23.5	
			26.9				
3	Y.		25.9	26.2		22.3	
			25.9				
4	R.Y.	7:58	24.9	25.2	4.0	21.2	
		0658	24.5				
5	R.		23.7	24.0		20.0	
			23.9				
6	Y.		22.6	23.0		19.0	
			23.0				
7	R.Y.	8:01	21.6	22.1	4.0	18.1	
		0701	21.5				
8	R		20.5	20.8		16.8	
			20.1				
9	Y.		19.3	19.6		15.6	
			19.2				
10	R.Y.	8:05	18.3	18.6	4.0	14.6	
		0705	18.2				
11	R.		17.2	17.5		13.5	
			17.8				
12	Y.		16.1	16.7		12.7	
			16.5	15.6		11.6	
13	R.Y.	8:07	15.1	~~15.5~~	4.0	~~11.5~~	
		0707	15.1				
14	R.		14.1	14.4		10.4	
			14.8				
15	Y.		13.0	13.6		9.6	
			13.0				
16	R.Y.	8:11	11.9	12.3	4.0	8.3	
		0711	11.9				
17	R.		10.9	11.2		7.2	
			10.9				
18	Y.		9.8	10.2		6.2	
			10.3				
19	R.Y.	8:16	8.9	9.4	4.0	5.4	
		0716	9.0				
20	R.		7.9	8.3		4.3	

8097
72 X 30Y

Profile No. _____ Notes Red. Lewis Plotted _____ Job No. 8412 Division No. K F. B. 1296 Pg. 43
Date 8-9-51 Date _____ Survey of Beach Erosion Studies
X-Sec. No. _____ Notes Chkd. T.M.J. Checked _____ Survey by E.H.B. Notes E.R.V. Date 7-16-51
Date 8-22-51 Date _____ Map No. _____ Inspected in Office Date _____

F. B. 1295 Pg. 144 Job No. 8412 Division No. V Notes Red. Lew Plotted _____ Profile

Survey of Beach Erosion Studies Date 8-9-51 Date _____ No. _____

Survey by F.H.B. Notes Vol. Inagle Notes Chkd. T.M.J. Checked _____ X-Sec.

Indexed R. C. Johnson Date 8-16-51 Date 8-20-51 Date _____ No. _____

BOAT.
72+50S

STATION	B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas Depth	Bottom	Tide	Adj. Depth	Remarks
21	Y	8:18 0718	8.0 6.9	7.3	4.1	3.2	

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.

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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	
67+50	57+50	1	R & Y	8:30	90°02		
		2	R		89°55		
		3	Y		89°54		
		4	R & Y	8:36	90°05		
		5	R		90°12		
		6	Y		89°50		
		7	R & Y	8:42	90°16		
		8	R		90°13		
		9	Y		90°11		
		10	R & Y	8:44	89°56		
		11	R		90°01		
		12	Y		90°11		
		13	R & Y	8:46	90°03		
		14	R		89°52		
		15	Y		89°52		
		16	R & Y	8:48	89°41		
		17	R		90°12		
		18	Y		89°45		
		19	R & Y	8:50	90°12		
		20	R	8:51	90°07		

RANGE 67+50

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
M.Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-16-51
No. ____ Date ____ Date ____ Map No. ____ Indexed Date ____

F.B. 7295 Pg. 145

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	
62+50	57+50	1	R&Y	9:11	90°16		
		2	R		90°12		
		3	Y		90°02		
		4	R&Y	9:24	90°47		
		5	R		90°14		
		6	Y		89°59		
		7	R&Y	9:27	90°08		
		8	R		90°11		
		9	Y		90°20		
		10	R&Y	9:30	90°20		
		11	R		90°15		
		12	Y		90°19		
		13	R&Y	9:32	90°14		
		14	R		90°14		
		15	Y		90°17		
		16	R&Y	9:35	90°03		
		17	R		90°09		
		18	Y		90°16		
		19	R&Y	9:37	90°04		
		20	R		89°57		

RANGE 62+50S

F. B. 1295 Pg. 14A Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-16-51 Date No.
Survey by F.H.B. Notes M.S. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date No.

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	
57+50	67+50	1	R & Y	8:30	55°59'		
		2	R		54°59'		
		3	Y		53°40'		
		4	R & Y	8:35	50°45'		
		5	R		48°25'		
		6	Y		46°50'		
		7	R & Y	8:42	45°50'		
		8	R		44°22'		
		9	Y		43°06'		
		10	R & Y	8:43	42°03'		
		11	R		40°55'		
		12	Y		39°33'		
		13	R & Y	8:45	37°50'		
		14	R		35°20'		
		15	Y		34°08'		
		16	R & Y	8:47	32°21'		
		17	R		31°48'		
		18	Y		30°35'		
		19	R & Y	8:49	29°44'		
		20	R	8:51	28°26'		

Cut in 67+50 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1295 Pg. 147
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes MACK Date 7-16-51
No. ____ Date ____ Date ____ Map No. ____ Indexed C. Johnson Date ____

76L29N 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. 1295 Pg. 148 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by Blanchard Notes MACK Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date 7-16-51 Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
S-2 56+26.51	62+50	1	R & Y	9:11	65°54'		
		2	R		63°51'		
		3	Y		62°18'		
		4	R & Y	9:25	60°38'		
		5	R		59°17'		
		6	Y		58°49'		
		7	R & Y	9:27	58°05'		
		8	R		56°11'		
		9	Y		55°24'		
		10	R & Y	9:30	54°33'		
		11	R		53°34'		
		12	Y		52°26'		
		13	R & Y	9:32	51°25'		
		14	R		50°13'		
		15	Y		48°18'		
		16	R & Y	9:34	47°21'		
		17	R		46°17'		
		18	Y		44°01'		
		19	R & Y	9:37	43°25'		
		20	R		42°19'		
		21 - 155					

CUT IN 62+50

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 67+30 S

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	R.Y.	8:30 0730	29.2 28.6 28.4	28.8	4.1	24.7	
2	R.		27.5 27.6	27.8		23.7	
3	Y.		26.5 26.8	26.9		22.8	
4	R.Y.	8:35 0735	25.4 25.2	25.9	4.1	21.8	
5	R		24.3 23.9	24.6		20.5	
6	Y.		22.9 22.9	23.2		19.1	
7	R.Y.	8:41 0741	21.8 21.9	22.2 ~~22.4~~	4.1	18.1 18.3	
8	R		20.6 20.7	21.0		16.9	
9	Y.		19.4 19.2	19.8		15.7	
10	R.Y.	8:43 0743	18.3 18.1	18.6	4.1	14.5	
11	R.		17.3 17.0	17.6		13.5	
12	Y		16.0 16.0	16.3		12.2	
13	R.Y.	8:45 0745	15.0 14.5	15.3	4.1	11.2	
14	R.		13.8 13.1	14.0		9.9	
15	Y.		12.7 12.3	12.8		8.7	
16	R.Y.	8:47 0747	11.5 11.2	11.8	4.1	7.7	
17	R.		10.4 10.0	10.7		6.6	
18	Y		9.0 8.9	9.3		5.2	
19	R.Y.	8:49 0749	7.9 8.0	8.2	4.1	4.1	
20	R.	8:50 0750	6.7	7.1	4.1	3.0	

BOAT 67+50 S

Profile Notes Red. LCW. Plotted LCW. Job No. 8412 Division No. V F.B. 1295 Pg. 149
No. Date 8-9-51 Date 8-24-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd T.M.L. Checked Survey by F.H.B. Notes E.R.V. Date 7-16-51
No. Date 8-20-51 Date Map No. Indexed Job No. 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. 1295 Pg. 150 Job No. 8412 Division No. V Notes Red. Lew Plotted T.M.I. Profile
Survey of Beach Erosion Studies Date 8-9-51 Date 8-24-51 No.
Survey by F.H.B. Notes Vollnagle Notes Chkd. T.M.I. Checked X-Sec.
Indexed C. Johnson Date 7-16-51 Date 8-20-51 Date No.

STATION 627505		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth		Remarks
1	R.Y.	9:11 08 11	29.6 28.6 28.8	28.9	4.1	24.8		
2	R.		27.5 27.0	27.9		23.8		
3	Y.		26.0 26.2	26.3		22.2		
4	R.Y.	9:24 08 24	25.0 25.1	25.4	4.1	21.3		
5	R.		24.0 24.0	24.4		20.3		
6	Y.		23.0 23.0	23.3		19.2		
7	R.Y.	9:26 08 26	21.9 22.0	22.3	4.1	18.2		
8	R.		20.9 20.7	21.3		17.2		
9	Y.		19.8 19.5	20.1		16.0		
10	R.Y.	9:29 08 29	18.7 18.6	19.0	4.1	14.9		
11	R.		17.5 17.8	17.9		13.8		
12	Y.		16.4 16.5	16.9	4.1	12.8		
13	RY	9:31 08 31	15.2 15.7	15.6	4.1	11.5		
14	R.		14.1 14.0	14.6 ~~14.4~~		10.5 ~~9.3~~		
15	Y.		13.0 13.2	13.3		9.2		
16	R.Y.	9:34 08 34	12.0 12.1	12.4	4.1	8.3		
17	R.		11.0 10.6	11.4		7.3		
18	Y.		9.9 9.9	10.1		6.0		
19	R.Y.	9:36 08 36	8.7 8.8	9.1	4.1	5.0		
20	R.		7.7	8.1		4.0		
21								

Page 157

BOAT 627505

76L298 307 5-49

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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.		
60+50	2.6	30.9		28.30		Old 1X2 in Hole
"			21	28.8		Sand SHORE ∡ 90°
			17	29.2		11' Rt. Toe SL.
			37	27.2		31' Lt. Top SL
			102	20.7		50' " Toe SL.
T.P.	0.7	19.8	118	19.1	T.P.	63 "
			47	15.1		106 "
			56	14.2		132 "
			52	14.6		150 "
			51	14.7		178 "
TRANS. AT 57+50 AS.			67	13.1		218 "
26°-00'-T.P.	2.6	11.4	110	8.8	T.P.	TAPE 244 " (Calc. 244.)
29°-02'-T.P.	2.6	7.3	67	4.7	T.P.	278 " (Calc 277.5) WATER
33°-41'			65	0.8		333 " Calc. Ocean Floor.
37°-28'			94	-2.1		383 " " "
40°-49'			106	-3.3		432 " " "
44°-11'			97	-2.4		486 "
45°-45'			106	-3.3		532 "

SHORE 62+50 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8A12 Division No. ____ F.B. 1228 PG. 17
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (MALIBU-TAIT)
Notes Chkd. T.M.J. Date 8-13-51 Checked ____ Date ____ Survey by C.V.C. Notes C.V.C. Date 7-16-51
Map No. ____ Indexed C. J. Johnson Date ____

76L298 307 5-49

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.		
57+50	37	31 50		27 10	OLD 2X2	SHORE ∡ 90°
			32	28 3	Sand	
			20		16' RT	Toe SL.
			43	27.19	37' LT	Top Conc. Wall
			60	23	37.5 "	Base of "
T.P.	1.1	21 2	11	23	T.P. 63 "	Brk.
			6.1	15 1	103 "	
			7.5	13 7	130 "	
			70	14 3	160 "	
			6.4	15	197 "	
TRANS. AT 62+50			78	12	220' "	
∡ 26°18 T.P.	2.9	12 5	[illegible]	[illegible]	T.P. TAPE 247 "	(calc 247')
30°47' T.P.	38	75	88	37	T.P. 298 "	(calc. 298')
33°42'			62	1	333' Calc.	Brk.
36°12'			76	-1	366	[illegible]
38°08'			99	-2 4	393 "	"
41°08'			10	-	437	
43°31'			98	-3 3	475 "	"

SHORE 57+50S

F.B. 9295 PG. 152 | 90 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES (MANHATTAN) Date ____ Date ____ No. ____
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.M.I. Checked ____ X-Sec. ____
Indexed A. C. Johnson Date 7-16-51 Date 8-13-51 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 (cont'd)	#	Color	Time	Hor. Ang.	Remarks	
62+50 57+50	21	Y	938	9003		

Range 62+50

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V F. B. 1298 PG. 103
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by FHB Notes MS Date 7-16-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ C. Johnson Date ____

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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F. B. 1295 Pg. 154 (5) Job No. 8412 Division No. V Notes Red. V Plotted ____ Profile
Survey of Beach Erosion Studies Date 7-16-51 Date ____ No. ____
Survey by E H B Notes M.S. Notes Chkd. ____ Checked ____ X-Sec.
Indexed A. C. Johnson Date ____ Date ____ No. ____

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
	S-2						
57+50	56+26	1	R & Y	9:52	90°04'		
		2	R		90°04'		
		3	Y		90°13'		
		4	R & Y	9:58	90°20'		
		5	R		90°20'		
		6	Y		90°07'		
		7	R & Y	10:03	90°12'		
		8	R		90°07'		
		9	Y		90°22'		
		10	R & Y	10:07	90°13'		
		11	R		90°13'		
		12	Y		90°13'		
		13	R & Y	10:09	90°10'		
		14	R		90°15'		
		15	Y		90°23'		
		16	R & Y	10:13	90°2'		
		17	R		90°2'		
		18	Y		90°2'		
		19	R + Y	10:16	90°18'		
		20	R		90°18'		

RANGE 57+50S

RANGE 57+50S

Profile	Notes Red	Plotted	Job No. 8412	Division No.	F. B. 1295 Pg. 115
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by Blanchard	Notes MACK	Date 7-16-51
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date

Cut-in 62+50
con't,

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

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
S-2 56+26.51 62+50	21	Y	9:38	40°34'	

76L298 307 4-50

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
47+50	S-2 56+26.51	1	R & Y	9:52	59° 54'	
		2	R		58° 58'	
		3	Y		55° 12'	
		4	R & Y	9:59	52° 55'	
		5	R		51° 26'	
		6	Y		49° 56'	
		7	R & Y	10:03	48° 05'	
		8	R		46° 26'	
		9	Y		45° 12'	
		10	R & Y	10:07	44° 06'	See Page 163
		11	R		42° 47'	
		12	Y		41° 35'	
		13	R & Y	10:09	40° 48'	
		14	R		39° 16'	
		15	Y		37° 55'	
		16	R & Y	10:13	36° 10'	
		17	R		34° 49'	
		18	Y		33° 10'	
		19	R & Y	10:15	32° 09'	
		20	R		30° 41'	

CUT IN 57+50 S

F. B. 1995 Pg. 156 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by Blanchard Notes MACK Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson Date 7-16-51 Date Date No.

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

F. B. 1295 PG. 157

Date 8-9-51 Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd. T.M. Checked _____ Survey by E.H.B. Notes E.R.V. Date 7-16-51

Date 8-20-51 Date _____ Map No. _____ Indexed E. Johnson Date _____

Boat 62+50

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

PLEASE RETURN TO

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

76L298 307 4-50

From 150

STATION 62+50J		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Botton Tide	Adj. Depth	Remarks	
21	Y.	9:38 08 38	7.3 6.5	6.8	4.1	2.7	

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.

F. B. 1295 Pg. 158 Job No. 8412 Division No. V Notes Red. LCW Plotted ____ Profile ____
Survey of Beach Erosion Studies Date 8-9-51 Date ____ No. ____
Survey by F.H.B. Notes Vollnogle Notes Chkd. T.M.L. Checked ____ X-Sec. ____
Indexed C. Johnson Date 7-16-51 Date 8-20-51 Date ____ No. ____

STATION 57+50S		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth		Remarks
1	R.Y.	9:52 0852	29.5 28.6 28.9	28.9	4.0	24.9	✓ ✓	
2	R.		27.6 27.8	28.0		24.0	✓ ✓	
3	Y.		26.6 26.7	27.0		23.0	✓ ✓	
4	R.Y.	9:58 0858	25.4 25.7	25.8	4.0	21.8	✓ ✓	
5	R.		24.4 25.0	24.8		20.8	✓ ✓	
6	Y.		23.3 23.3	23.9		19.9	✓ ✓	
7	R.Y.	10:03 0903	22.2 22.3	22.6	4.0	18.6	✓ ✓	
8	R.		21.1 21.0	21.5		17.5	✓ ✓	
9	Y.		19.9 19.9	20.3		16.3	✓ ✓	
10	R.Y.	10:06 0906	18.8 19.1	19.2	4.0	15.2	✓ ✓	
11	R.		17.7 17.5	18.2		14.2	✓ ✓	
12	Y.		16.4 16.8	16.8		12.8	✓ ✓	
13	R.Y.	10:09 0909	15.4 15.2	15.9	4.0	11.9	✓ ✓	
14	R.		14.2 14.4	14.5	4.0	10.5	✓ ✓	
15	Y.		13.2 13.4	13.6	3.9	9.7	✓ ✓	
16	R.Y.	10:12 0912	12.1 12.0	12.5	3.9	8.6	✓ ✓	BOAT 57+50S
17	R.		10.9 11.0	11.3		7.4	✓ ✓	
18	Y.		9.7 9.6	10.1		6.2	✓ ✓	
19	R.Y.	10:15 0915	8.6 8.3	8.9	3.9	5.0	✓ ✓	
20	R.		7.4	7.7		3.8	✓ ✓	

21 See page 165

76L298 307 5-49

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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.

250

12.6
4.7
7.9

STATION	B. S.	H. I.	F. S.	ELEV.			
52+50	29	31 9		28 9		old BT. SPK GT.	SHORE ∡ 90°
			47	27 2		31' LT - TOP CONC. WALL	
			83	23 0		32 " BASE of "	
T.P.	05	21 0	11.4	20 5	T.P.	52' "	Beach.
			48	16 2		98' "	"
			62	14 8		136' "	"
			61	14 9		150' "	"
			70	14 0		190' "	"
TRANS. AT 47+50			70	14 0		224' "	"
26°-32' T.P.	26	126	110	10 0	T.P.	TAPE 250' (calc 249.7)	"
30°-15' T.P.	34	81	7.9	47	T.P.	292' (calc. 291.6)	
32°-52'			55	26		323' calc.	ocean FLOOR.
36°-04'			74	07		364' "	" "
39°-21'			97	-16		410'	
43°-06'			103	-22		468'	
46°-19'			111	-30		524'	
49°-35'			120	-3,9		587'	

SHORE
52+50 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 129 Pg. 159
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (MANHATTAN)
Notes Chkd. T.M. Checked ____ Survey by C.V.C. Notes C.V.C. Date 7-16-51
Date 8-13-51 Date ____ Map No. ____ Indexed A. C. Johnson Date ____

76L298 307 5-49

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.			
47+50	33	322		29.02		NEW N&T-IN PARKING PAV.	
			49	27 3		31' LT TOP CONC. WALL	
			84	23 8		32 " BASE " "	
T.P.	09	211	12.0	[illegible]	T.P.	45 "	SHORE ∡ 90°
			50	161		88 "	
			67	14 4		125 "	
			66	12 5		150 "	
			66	14 5		190 "	
TRANS. ON 52+50			68	14 3		219 "	
26°-17'-T.P	24	124	111	10 [illegible]	T.P.	250 "	
30°-01' T.P.	43	90	77	4 [illegible]	T.P.	292	
32°-55'			66	2 4		324 - Calc	
36°-18'			94	-0 1		367 "	
39°-51'			113	-2 [illegible]		417 "	
42°-05'			110	-2 [illegible]		457 "	
45°-57'			115	-2 5		517 "	

SHORE 47+50 S

F.B. 1295 PG. 160 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES (MANHATTAN) Date Date X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.M.I. Checked No.
Indexed A. C. Johnson Date 7-17-51 Date 8-13-51 Date

F. B. 1295 PG 161

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

Survey of Beach Erosion Studies

X-Sec. No. ____ Notes Chkd ____ Date ____ Checked ____ Date ____ Survey by F.H.R. Notes M.S. Date 7-16-51

Map No. ____ Indexed C. Johnson Date ____

Range 57+50

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

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
57+50 6-2 56+26.5	21	Y	10:18	90°18	

76L298 307 4-50

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		S. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
52+50	42+50	1	R & Y	10:29	89 53		
		2	R		90°04		
		3	Y		90°08		
		4	R & Y	10:36	90°12'		
		5	R		90°23'		
		6	Y		90°32		
		7	R & Y	10:39	90°26'		
		8	R		90°14'		
		9	Y		90°27'		
		10	R & Y	10:42	90°12'		
		11	R		90°22'		
		12	Y		90°10'		
		13	R & Y	10:46	90°14'		
		14	R		90°22'		
		15	Y		90°15'		
		16	R + Y	10:49	90°25'		
		17	R		90°09'		
		18	Y		90°29		
		19	R + Y	10:52	90°34		
		20	R		90 07		

RANGE 52+50 S

F. B. 1295 Pg. 162 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-16-51 Date No.
Survey by EHB Notes M.S. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date No.

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1295 Pg. 163
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by Blanchard	Notes MACK	Date 7-16-51
No.	Date	Date	Map No.	Indexed C. Johnson	Date

CUT IN
57+50 S

Con't. from page 156

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

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At 47+50 On 5-2 56+26.51	# 21	Color Y	Time 10:18	Hor. Ang. 29° 07'	

761.298 307 4-50

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.

F. B. 1295 Pg. 164 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by Blanchard Notes MACK Notes Chkd. Checked X-Sec.
Indexed H. C. Johnson Date 7-16-51 Date Date No.

STATION Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
42+50	52+50	1	R & Y	10:29	57°24'	
		2	R		56°10'	
		3	Y		51°27'	
		4	R & Y	10:36	49°43'	
		5	R		48°24'	
		6	Y		46°51'	
		7	R & Y	10:38	45°39'	
		8	R		44°44'	
		9	Y		43°56'	
		10	R & Y	10:42	43°00'	
		11	R		41°50'	
		12	Y		40°23'	
		13	R & Y	10:45	38°57'	
		14	R		37°47'	
		15	Y		36°36'	
		16	R & Y	10:49	34°48'	
		17	R		33°38'	
		18	Y		32°15'	
		19	R & Y	10:52	30°48'	
		20	R		29°32'	

CUT IN 52+25

Con't on page No 169

Profile No. _____ Notes Red. L C W Plotted _____ Job No. 8412 Division No. V

F. B. 1295 PG. 165

Date _____ Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd. T. M. I. Checked _____ Survey by F. H. B. Notes E. R. V. Date 7-16-51

Date 8-20-51 Date _____ Map No. _____ Indexed A. C. Johnson Date _____

BOAT
57+50S

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.

Do not extend notes this side of this line.

From 158

STATION 57+50S #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom Tide	ELEV.	Adj. Depth	Remarks
21	Y	10:17 0917	7.8 6.1	6.7	3.9	2.8	

76L298 307 4-50

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.

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F. B. 1295 Pg. 166 Job No. 8412 Division No. V Notes Red. [illegible] Plotted T.M.L. Profile
Survey of Beach Erosion Studies Date 8-13-51 Date 8-24-51 No.
Survey by F.H.B. Notes Vollingle Notes Chkd. T.M.L. Checked X-Sec.
Indexed R. C. Johnson Date 7-16-51 Date 8-20-51 Date No.

STATION 52+50S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R.Y.	10:28 0928	29.5 28.3 28.5	28.7	3.8	24.9	
2	R.		27.3 27.8	27.7		23.9	
3	Y.		26.1 26.0	26.7		22.9	
4	R.Y.	10:35 0935	24.9 24.9	25.3	3.8	21.5	
5	R.		23.8 23.8	24.2		20.4	
6	Y.		22.7 22.3	23.1		19.3	
7	R.Y.	10:38 0938	21.6 21.8	21.8	3.8	18.0	
8	R.		20.6 20.9	21.0		17.2	
9	Y.		19.5 19.8	20.0		16.2	
10	R.Y.	10:41 0941	18.4 18.5	18.9	3.8	15.1	
11	R.		17.4 17.6	17.8		14.0	
12	Y.		16.3 16.2	16.7		12.9	
13	R.Y.	10:45 0945	15.1 15.2	15.5	3.8	11.7	
14	R.		14.0 14.4	14.4	3.8	~~10.4~~ 10.6	
15	Y.		13.0 13.1	13.5	3.7	9.8	
16	R.Y.	10:48 0948	12.0 11.9	12.4	3.7	8.7	
17	R.		10.7 10.8	11.1		7.4	
18	Y.		9.7 9.5	10.1		6.4	
19	R.Y.	10:51 0951	8.3 8.8	8.7	3.7	5.0	
20	R.		7.0	7.6		3.9	

BOAT 52+50S

21 see Pg 171

Profile No. _____ Notes Red. _____ Date _____ Plotted _____ Date _____ Job No. 8412 Division No. V (6 cont'd) F. B. 1295 Pg. 167

X-Sec. No. _____ Notes Chkd. _____ Date _____ Checked _____ Date _____ Survey of Beach Erosion

Survey by FHB Notes M.S. Date 7-16-51

Map No. _____ Indexed A. G. Johnson Date _____

RANGE
52+50 S

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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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At (cont'd)	#	Color	Time	Hor. Ang.	
52+50 42+50	21	Y	10 54	90°27	

76L298 307 4-50

76L298 307 4-50

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

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F. B. 1295 Pg. 118 (7) Job No. 8412 Division No. V Notes Red. ____ Plotted ____ Profile
Survey of Beach Erosion Studies Date 7-16 Date ____ No. ____
Survey by E.H.B. Notes M.S. Notes Chkd. ____ Checked ____ X-Sec.
Indexed T. C. Johnson Date ____ Date ____ No. ____

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
47+50	37+50	1	R&Y	11:06	90°08'		
		2	R		[illegible]		
		3	Y		90°03'		
		4	R&Y	11:11	90°00'		
		5	R		89°59'		
		6	Y		90°05'		
		7	R&Y	11:14	90°02'		
		8	R		90°13'		
		9	Y		90°05'		
		10	R&Y	11:16½	90°16'		
		11	R		90°11'		
		12	Y		89°57'		
		13	R&Y	11:19	90°26'		
		14	R		90°16'		
		15	Y		90°01'		
		16	R&Y	11:21	90°04'		
		17	R		90°24'		
		18	Y		89°50'		
		19	R&Y	11:23	90°03'		
		20	R		90°27'		

Range 47+25

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1295 Pg. 169
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by Blanchard	Notes MACK	Date 7-16-51
No.	Date	Date	Map No.	Indexed C. Johnson	Date

CUT IN
52+50S

Con't. from page No 164

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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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At	#	Color	Time	Hor. Ang.	
42+50 OR 52+50	21	Y	10:54	27°48'	

76L298 307 4-50

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. 1295 Pg. 170 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by Blanchard Notes MACK Notes Chkd. Checked X-Sec.
Indexed E. C. J. Date 7-16-51 Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
37+50	47+50	1	R & Y	11:05	56°09'		
		2	R		54°26'		
		3	Y		51°29'		
		4	R & Y	11:11	50°06'		
		5	R		48°19'		
		6	Y		47°23'		
		7	R & Y	11:14	46°11'		
		8	R		45°18'		
		9	Y		44°09'		
		10	R & Y	11:16	43°08'		
		11	R		42°02'		
		12	Y		40°45'		
		13	R & Y	11:18	39°22'		
		14	R		38°30'		
		15	Y		35°36'		
		16	R & Y	11:21	34°05'		
		17	R		32°31'		
		18	Y		31°42'		
		19	R & Y	11:23	31°02'		
		20	R		29°58'		

CUT 12
47+50.5

Cont. on page No 177

Profile No. _____ Notes Red. L.C.W. Plotted _____ Job No. 8412 Division No. V

F. B. 1295 PG. 171

Date _____ Date _____ Survey of Beach Erosion Studies

X-Sec. No. _____ Notes Chkd T.M. 1 Checked _____ Survey by F.H.B. Notes E.R.V. Date 7-16-51

Date B-20-51 Date _____ Map No. _____ Indexed [illegible] Date _____

BOAT
52+50S

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.

Do not extend notes this side of this line.

From 166

STATION 52+50V #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
21	Y	10:53 0953	7.2 5.9	6.3	3.7	2.6 ~~3.6~~	

76L298 307 4-50

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. 129 P. 172 Profile No. ___ X-Sec. No. ___

Job No. 8-[illegible] Division No. 1 Notes Red. RWF Plotted ___

Survey of Beach Erosion Studies Date 8-9-51 Date ___

Survey by E.A.B. Notes Vallingale Notes Chkd. T.M. Checked ___

Indexed C. Johnson Date 7-16-51 Date 8-20-51 Date ___

STATION 47+30

#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
			29.3				
1	R.Y.	11:05 10.05	28.2 28.1	28.6	3.6	25.0	
2	R		27.0 27.1	27.4	3.4	23.8	
3	Y		26.0 26.2	26.4	3.5	22.9	
4	R.Y.	11:11 10.11	25.0 25.1	25.4	3.5	21.9	
5	R		24.0 24.1	24.4		20.9	
6	Y		23.0 23.0	23.4		19.9	
7	R.Y.	11:14 10.14	21.9 21.9	22.3	3.5	18.8	
8	R.		20.9 21.0	21.2		17.7	
9	Y.		19.9 20.0	20.3		16.8	
10	R.Y.	11:16 10.16	18.9 18.8	19.3	3.5	15.8	
11	R.		17.6 17.8	18.0		14.5	
12	Y.		16.5 16.4	16.9		13.4	
13	R.Y.	11:18 10.18	15.4 15.4	15.7	3.5	12.2	
14	R.		14.2 13.7	14.6		11.1	
15	Y.		12.9 12.6	13.2		9.7	
16	R.Y.	11:20 10.20	11.8 11.8	12.1	3.5	8.6	
17	R.		10.8 11.0	11.1		7.6	
18	Y.		9.5 9.9	10.0		6.5	
19	R.Y.	11:22 10.22	8.4 8.1	8.9	3.5	5.4	
20	R.		7.3	7.6		4.1	

21 See Page 170

BOAT

47+50 S

76L298 307 5-49

PLEASE RETURN TO
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Do not extend notes this side of this line.

93 2
93
96 2

STATION	B. S.	H. I.	F. S.	ELEV.		
42+50	29	315		28 64	old 1X2 Flush	SHORE ∠ 90°
			00	31 5	10' RT	
			87	228	25' Lt	
T.P.	14	209	120	195 TP	41' "	
			57	152	100' "	Brk
			65	144	145' "	
TRANS. ON 37+50			60	149	185' "	Brk Top of Sand
			75	134	218' "	Brk
26°-50' TP	03	93	119	90 TP	254' "	(calc 253
30°-03'			46	47	290' "	(calc. 289)
33°-32'			75	18	331 calc.	
36°-40'			101	-08	372 calc.	
39°-19'			117	-24	417' "	
42°-50'			115	-22	464' "	
46°-07'			119	-26	519' "	

SHORE
42+50.5

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8A 12 Division No. ____ 93 F.B. 129 PG. 73
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES - (EL SEGUNDO)
Notes Chkd. T.M.I. Date 8-13-51 Checked ____ Date ____ Survey by C.V. CRUMLEY Notes ____ Date 7-17-51
Map No. ____ Indexed ____ Date ____

76L298 307 5-49

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12.3
4.7
7.6

STATION	B. S.	H. I.	F. S.	ELEV.		
37+50	38	34.0 ~~33.9~~		30 17	NEW 1X2 IN HOLE	SHORE ∡ 90°
			26	31 4	Sand	
			33	3 7	12' RT	
			27	3 3	3' LT	TOP BRK
			40	30	24 "	
T.P.	00	22 1	119	22.1	T.P 43.5 "	
			53	16 8	79	
			75	14 6	120	
			74	14 7	150	
			86	13 5	190	
TRANSIT ON 32+50 ∡S			180	14 1	225 LT	
26°-29' T.P	18	12.4	115	10 6	T.P. TAPE 250 (calc 249)	
			55	9	280 "	Water
30°-34' T.P	32	8.0 ~~7.7~~	76	4 8	T.P 296 " (calc. 295)	OCEAN FLOOR
33°-10'			55	2 5	327 ✓ calc.	" "
35°-57'			71	0.9	363 ✓ " "	"
38°-20'			93	-1 3	395 ✓ "	
41°+14'			101	-2 1	438 ✓ "	
43°-43'			105	-2 5	478 ✓ "	
45°-54'			110	-3 0	516 ✓ "	

SHORE 37+50 S

F.B. 1295 PG. 174 94
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES (EL SEGUNDO) Date Date X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd T.M.I. Checked No.
Indexed A. C. Johnson Date 7-17-50 Date 8-13-51 Date

Profile No.	Notes Red.	Plotted	Job No. 8412 Division No. ✓	F. B. 1295 Pg. 175
	Date	Date	Survey of Beach Erosion Studies	
X-Sec. No.	Notes Chkd.	Checked	Survey by E.H.B. Notes MS Date 7-16-51	
	Date	Date	Map No. Indexed Job Room Date	

RANGE
47+50S

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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At 47+50	#	Color	Time	Hor. Ang.	
OH 37+50	21	Y	11:25	89°56	

76L298 307 4-50

76L298 307 4-50

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F. B. 129C PG. 126 ① Job No. 8412 Division No. V Notes Red. Plotted Profile No.
Survey of Beach Erosion Studies Date 7-17-51 Date Checked X-Sec. No.
Survey by F.H.B. Notes M.S. Notes Chkd. Date Date
Indexed H. C. Johnson Date Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
42+50	32+50	1	R & Y	7:06	90° 09		
		2	R		89° 50		
		3	Y		89° 54		
		4	R & Y	7 11	90° 01		
		5	R		90° 10		
		6	Y		89° 49		
		7	R & Y	7 17	90° 27		
		8	R & Y	7:19	90° 18	(90° 34)	Waved Wrong flag
		9	Y		90° 10		
		10	R & Y	7:22	90° 04		
		11	R		90° 03		
		12	Y		90° 10		
		13	R & Y	7 25	90° 09		
		14	R		89° 57		
		15	Y		90° 06		
		16	R & Y	7 28	89° 54		
		17	R		90° 07		
		18	Y		90° 12		
		19	R & Y	7 29	90° 11		
		20	R	7 30	90° 06		

RANGE 42+50

Profile No. ____ Notes Red. ____ Date ____ Plotted ____ Date ____ Job No. 8412 Division No. ____ F. B. 1295 Pg. 177

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

Survey by F.H.B. Notes Mack Date 7-16-51

Map No. ____ Indexed [illegible] Date ____

Cut in.
479505

Cont. from page No 170

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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
37+50 47+50	21	Y	11 25	28°23'	

76L298 307 4-50

76L298 307 4-50

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F. B. 124 Pg. 172 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 C.B.S. Notes Chkd. Checked
Indexed Date 7-17-51 Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
S-1	42+50	1	RY	706	46° 30'		
		2	R		40° 54'		
		3	Y		37° 25'		
		4	RY	711	35° 43'		
		5	R		33° 26'		
		6	Y		32° 18'		
		7	RY	716	32° 27'		
		8	RY	719	31° 15'		
		9	Y		29° 43'		
		10	RY	721	28° 49'		
		11	R		26° 48'		
		12	Y		25° 19'		
		13	RY	724	25° 07'		
		14	R		24° 10'		
		15	Y		23° 08'		
		16	RY	727	22° 22'		
		17	R		21° 53'		
		18	Y		20° 52'		
		19	RY	729	20° 00'		
		20	R	730	19° 20'		

CUT 42+50

Profile	Notes Red. L.CW	Plotted	Job No. 8412	Division No. V	F. B. 1295	Pg. 179
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd. T.M.1	Checked	Survey by F.H.B	Notes E.R.V.	Date 7-16-51	
No.	Date 8-20-51	Date	Map No.	Indexed	Date	

BOAT
47+50S

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From Page 172

STATION 47+50S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Botton	Tide	Adj. Depth	Remarks
21	Y	11:24 10.24	7.1 6.0	6.4	3.5	2.9	

76L298 307 4-50

76L298 307 4-50

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F. B. 1295 Pg. 180 Job No. 8412 Division No. V Notes Red. Rcur Plotted _____ Profile _____
Survey of Beach Erosion Studies Date 8-9-51 Date _____ No. _____
Survey by F.H.B. Notes Vollnagle Notes Chkd. T.M. Checked _____ X-Sec. _____
Indexed R. C. Tolman Date 7-17-51 Date 8-20-51 Date _____ No. _____

STATION 42+50 S		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth		Remarks
1	R.Y.	7:05 0605	29.9 27.8	28.5	2.6	25.9		
2	R.		28.1 26.2	26.8	2.6	24.2		
3	Y.		26.1 25.0	25.4	2.7	22.7		
4	R.Y.	7:10 0610	25.8 24.0	24.6	2.7	21.9		
5	R.		25.1 22.8	23.6	2.7	20.9		
6	Y.		23.2 21.7	22.2	2.8	19.4		
7	R.Y.	7:16 0616	22.3 20.6	21.2	2.8	18.4		
8	R.Y.	7:19 0619	22.80 20.3	20.9	2.8	18.1		
9	Y.		20.7 18.9	19.5		16.7		
10	R.Y.	7:21 0621	19.3 17.3	18.0	2.9	15.1		
11	R.		18.3 16.0	16.8		13.9		
12	Y.		16.7 15.0	15.6		12.7		
13	R.Y.	7:24 0624	15.6 13.9	14.5	2.9	11.6		
14	R.		13.3 12.9	13.0		10.1		
15	Y.		13.5 11.9	12.4		9.5		
16	R.Y.	7:27 0627	12.9 10.9	11.6	2.9	8.6		
17	R.		11.9 9.6	10.4		~~7.0~~ 7.4		
18	Y.		11.3 8.9	9.7		6.7		
19	R.Y.	7:28 0628	10.4 7.9	8.7	[illegible]	5.7		
20	R.	7:29 0629	8.3 6.9	7.4	[illegible]	4.4		

BOAT 42+50 S

76L298 307 4-50

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Profile No. ___ Notes Red ___ Date ___ Plotted ___ Date ___ Job No. 8412 Division No. V ② Survey of Beach Erosion Studies Survey by F.H.B. Notes M.S. Date 7-17-51 F. B. 1285 Pg. 181

X-Sec. No. ___ Notes Chkd ___ Date ___ Checked ___ Date ___ Map No. ___ Date ___

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
37+50	27+50	1	R & Y	7:40	89°33		
		2	R		89 24		
		3	Y		90 02		
		4	R & Y	7:46	89 56		
		5	R		90 12		
		6	Y		89°57		
		7	R & Y	7:51	90°07		
		8	R		90°09		
		9	Y		90°03		
		10	R & Y	7:55	90°08		
		11	R		90°05		
		12	Y		90°07		
		13	R & Y	7:58	90°05		
		14	R		90°32		
		15	Y		90°20		
		16	R & Y	8:02	90°15		
		17	R		90°03		
		18	Y		89°34		
		19	R & Y	8:04	89°33		
		20	R		89 41		

Prong 37+50

F. B. 1295 Pg. 182 Job No. 8412 Division No. V Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-16-51 Date No.

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

Indexed A. C. Johnson Date Date Date No.

RANGE
37+50S

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. At 37+50	Sight On 37+50	# 21	Color Y	Time 8 00	Hor. Ang. 89°50	Remarks

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Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1295 Pg. 183
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd ____ Checked ____ Survey by E.H.B. Notes C.B.S. Date 7-17-51
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
S-1	37+50	1	RY	740	56°18'	.	
		2	R		52°20'	.	
		3	Y		48°00'	.	
		4	RY	740	46°00'	.	
		5	R		44°55'	.	
		6	Y		43°40'	.	
		7	RY	751	42°38'	.	
		8	R		41°10'	.	
		9	Y		39°23'	.	
		10	RY	755	38°23'	.	
		11	R		37°16'	.	
		12	Y		36°22'	.	
		13	RY	757	35°20'	.	
		14	R		34°07'	.	
		15	Y		32°51'	.	
		16	RY	801	31°21'	.	
		17	R		30°46'	.	
		18	Y		29°50'	.	
		19	RY	804	28°02'	.	
		20	R		27°31'	.	

CUT IN 37+50

F. B. 1295 Pg. 184 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

Indexed A. C. Johnson Date 7-17-51 Date _____ Date _____ No. _____

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At Cn	#	Color	Time Hr. Ang.		
S-1 37+50	21	Y	806	2016	

CUT IN
37+50S

76L298 307 4-50

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STATION 37+50S | B. S. | H. I. | F. S. | ELEV.

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	R.Y.	7:39 0639	29.5 28.3 28.9	28.7	3.1	25.6	Very soft bottom
2	R.		27.3 28.0	27.8	3.2	24.6	" " "
3	Y.		26.1 26.6	26.7	3.3	23.4	" " "
4	R.Y.	7:45 0645	25.0 26.0	25.5	3.3	22.2	
5	R.		24.0 25.2	24.7	3.3	21.4	
6	Y.		22.9 23.7	23.7	3.4	20.3	
7	R.Y	7:50 0650	21.8 22.4	22.4	3.4	19.0	
8	R.		20.5 20.8	21.1		17.7	
9	Y.		19.0 20.0	19.6		16.2	
10	R.Y.	7:54 0654	18.0 18.5	18.7	3.4	15.3	
11	R.		17.0 18.1	17.5		14.1	
12	Y.		16.0 17.4	16.7		13.3	
13	R.Y.	7:57 0657	15.0 15.7	15.8	3.5	12.3	
14	R.		14.0 14.8	14.6		11.1	
15	Y.		12.9 14.4	13.5		10.0	
16	R.Y.	8:01 0701	11.9 13.0	12.7	3.5	9.2	
17	R.		10.9 12.9	11.6		8.1	
18	Y.		9.9 10.3	10.9		7.4	
19	R.Y.	8:03 0703	8.9 10.0	9.4	3.5	5.9	
20	R		7.9	8.6		5.1	

BOAT 37+50S

Profile Notes Red. RCW. Plotted ____ Job No. 8412 Division No. V
No. ____ Date 8-9-51 Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.I. Checked ____ Survey by F.H.B. Notes E.R.V. Date 7-17-51
No. ____ Date 8-20-51 Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1295 PG. 185

F. B. 1295 PG. 186 Job No. 8412 Division No. Y Notes Red. Lew. Plotted _____ Profile

Survey of Beach Erosion Studies Date 8-9-51 Date _____ No. _____

Survey by F.H.B. Notes Vollnagle Notes Chkd. T.M.I. Checked _____ X-Sec.

Indexed A. C. Johnson Date 7-17-51 Date 8-20-51 Date _____ No. _____

BOAT
37+50S

STATION	#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
37+50S	21	Y	8:05 0705	9.5 6.9	7.8	3.6	4.2	

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
32+50	2 5	33.4		30 91	old 1X2	SHORE ∡ 90°
			21	31 3	sand	
			24	31 0	16' RT	TOE SL.
			28	30 6	17 LT	BRK
			69	26 5	37 "	TOP "
T.P.	10	32.5	11 9	21 5	T.P 52 "	
			34	19 1	60 "	TOE S.L.
			72	15 3	104 "	BRK.
			79	14 6	138	
			77	14 8	150	
			92	13 3	200	
TRAVS. AT 27+50			82	14 3	242	
			96	12 9	250	
∡s 28°-20' T.P	19	12 7	11 7	10 8	TAPE T.P 270 (calc 268.6)	
29°-30'			40	8 7	285 (calc 284)	WATER.
32°-48' T.P.	44	91	80	4 7	T.P 323 (calc 322+)	OCEAN FLOOR
35°-13'			66	2 5	353' calc.	" "
38°-27'			89	0 2	397' "	" "
42°-00'			100	-0.9	450' "	
45°-46'			109	-1.8	514' "	
47°-49'			120	-2.9	552' "	

SHORE 32+50 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ 95 F.B. 129 Pg. 187
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES - EL SEGUNDO
Notes Chkd. T.M.L. Date 8-13-57 Checked ____ Date ____ Survey by G.V.C. Notes G.V.C. Date 7-17-57
Map No. ____ Indexed Johnson Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.		
27+50	07	30.3		29.1	Old 1X2	SHORE ∡ 90°
			13	29.0	15 LT.	
			63	24.0	56 "	TOP SL.
			107	19.6	60 "	TOE SL.
T.P.	01	18.7	117	18.[illegible]	T.P 70 "	
			46	14.[illegible]	127 "	
			41	14.6	180 "	
TRANS. AT 32+50			53	13.4	225	
∡ 27°-24' T.P.	1.2	15.4	45	14.[illegible]	T.P 1X2 260 " (calc. 259+)	
29°-16'			35	11.[illegible]	281 " (calc. 280+)	
34°-20' T.P.	19	66	107	4.[illegible]	T.P. 342 " (calc 341.5)	- WATER
37°-11'			53	1.[illegible]	379 Calc.	OCEAN FLOOR
40°-01'			66	0.[illegible]	420 Calc.	" "
41°-22'			78	-1.[illegible]	440 "	
44°-21'			85	-1.[illegible]	489 "	
47°-05'			89	-2.[illegible]	538 "	
50°-34'			109	-1.[illegible]	608 "	

SHORE 27+50S

F.B. 129 PG. 188 96 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES (EL SEGUNDO) Date Date X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.N.I. Checked No.
Indexed A. C. [illegible] Date 7-17-51 Date 8-13-51 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		S. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
32+50	42+50	1	R & Y	8:23	89 49		
		2	R		90 13		
		3	Y		89 49		
		4	R & Y	8:30	89°59		
		5	R		89°55		
		6	Y		89°47		
		7	R & Y	8:32	89°55		
		8	R		90°06		
		9	Y		90°01		
		10	R & Y	8:35	90°16		
		11	R		90°10		
		12	Y		90°09		
		13	R & Y	8:37	90°09		
		14	R		90°13		
		15	Y		90°22		
		16	R & Y	8 40	90°36		
		17	R		90°00		
		18	Y		90°10		
		19	R & Y	8 42	89°56		
		20	R		89°32		

RANGE
32+50

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V ⊘ F.S. 1295 Pg. 189
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.G. Notes M.S. Date 7-17-51
No. ____ Date ____ Date ____ Map No. ____ Index C. Job map Date ____

F. B. 1295 Pg 990 Job No. 8412 Division No. V Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date 7-17-51 Date No.

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

Indexed E. C. Johnson Date Date Date No.

RANGE
32+50 S

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
32+50 42+50	21	Y		90 13		
	22	R&Y	8 46	90 04		

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	
42+50	32+50	1	RY	823	58°36'		
		2	R		53°38'		
		3	Y		51°03'		
		4	RY	830	49°12'		
		5	R		47°34'		
		6	Y		46°10'		
		7	RY	832	45°06'		
		8	R		44°40'		
		9	Y		43°12'		
		10	RY	835	42°00'		
		11	R		40°44'		
		12	Y		39°39'		
		13	RY	837	38°33'		
		14	R		37°29'		
		15	Y		35°40'		
		16	RY	840	34°38'		
		17	R		32°58'		
		18	Y		32°17'		
		19	RY	842	31°28'		
		20	R		30°52'		

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1295 Pg. 191
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes C.B.S. Date 7-17-51
No. ____ Date ____ Date ____ Map No. ____ Indexed A.C. Johnson Date ____

CUT IN
82+50.5

F. B. 1295 PG. 192 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

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

Indexed A. C. Johnson Date 7-17-51 Date Date No.

Cut in
32+50 S

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
42+50 32+50	21	Y		26°20'		
	22	RY	8:40	26°59'		

76L298 307 4-50

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STATION 324.50 S

#	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
				30.2				
1	R.Y.	8:22 0722		28.2 29.0	28.9	3.8	25.1	Very soft bottom
2	R.			27.2 28.7	27.8		24.0	" " "
3	Y.			26.2 26.2	26.8		23.0	" " "
4	R.Y.	8:29 0729		25.1 25.5	25.5	3.9	21.6	
5	R.			24.0 25.3	24.5		20.6	
6	Y.			23.0 24.0	23.8		19.9	
7	R.Y.	8:32 0732		22.0 22.6	22.7	3.9	18.8	
8	R.			21.0 21.7	21.5		17.6	
9.	Y.			20.0 20.5	20.6		16.7	
10	R.Y.	8:34 0734		19.0 19.6	19.5	4.0	15.5	
11	R.			17.8 18.4	18.4		14.4	
12	Y.			16.8 17.5	17.3		13.3	
13	R.Y.	8:36 0736		15.3 15.8	16.0	4.0	12.0	
14	R.			14.0 14.4	14.6		10.6	
15	Y			13.0 13.5	~~[illegible]~~ 13.5		9.5 9.6	
16	R.Y.	8:39 0739		12.0 12.0	12.5	4.0	8.5	
17	R.			10.8 11.3	11.2		7.2	
18	Y.			9.4 9.5	10.0		6.0	
19	R.Y.	8:41 0741		8.5 9.0	8.8	4.0	4.8	
20	R.			7.5	8.0		~~4.9~~	

Boat 347505

over

Profile No. ____ Notes Red Chief Date 8-9-51 Plotted ____ Date ____ Job No. 8412 Division No. V F. B. 1295 Pg. 93
X-Sec. No. ____ Notes Chief Date 8-20-51 Checked ____ Date ____ Survey of Beach Erosion Studies
Survey by F.H.B. Notes FPK Date 7-17-51
Map No. ____ Checked J. Johnson Date ____

F. B. 1295 Pg. 194 Job No. 8412 Division No. V Notes Red. Lew. Plotted _____ Profile

Survey of Beach Erosion Studies Date 8-9-51 Date _____ No. _____

Survey by F.H.B. Notes Vollnogle Notes Chkd. T.M.L. Checked _____ X-Sec.

Indexed A. C. Johnson Date 7-17-51 Date 8-20-57 Date _____ No. _____

BOAT
32+50S

STATION 32+50S	#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
	21	Y	8:45	7.6	6.9	4.0	2.9	
	22	RY.	0745	6.5	5.6	4.0	1.6	

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	
27+50	37+50	1	R & Y	9:03	90 25		
		2	R		90 10		
		3	Y		89°58'		
		4	R & Y	9:08	90°21'		
		5	R		90°17'		
		6	Y		90°19'		
		7	R & Y	9:13	90°19'		
		8	R		89°57'		
		9	Y		90 57		
		10	R & Y	9:17	90 27		
		11	R		90 07		
		12	Y		89 55		
		13	R & Y	9:20	89°54'		
		14	R		89°44'		
		15	Y		89 39		
		16	R & Y	9:23	89°50'		
		17	R		89°45'		
		18	Y		89°45'		
		19	R & Y	9:26	90°05'		
		20	R		90°20'		

RANGE
37+50 S

Profile Notes Red. Plotted Job No. 8412 Division No. V (4) F. B. 1295 Pg. 191
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by FH Notes MS Date 7-17-51
No. Date Date Map No. Indexed Johnson Date

F. B. 1295 Pg 96 | Job No. 8412 Division No. V | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date 7-17-51 | Date | No.

Survey by F.H.B. | Notes MS | Notes Chkd. | Checked | X-Sec.

Indexed H. C. Johnson | Date | Date | Date | No.

RANGE
27+50S

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At	#	Color	Time	Hor. Ang.	Remarks
						21	Y			
						22	P-Y	9:30		

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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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
37+50	27+50	1	RY	9 03	59°02'		
		2	R		56°36'		
		3	Y		51°36'		
		4	RY	9 08	49°32'		
		5	R		47°18'		
		6	Y		47°16'		
		7	RY	9 13	45°00'		
		8	R		44°50'		
		9	Y		43°25'		
		10	RY	9 16	42°42'		
		11	R		41°14'		
		12	Y		40°27'		
		13	RY	9 20	38°31'		
		14	R		[illegible]		
		15	Y		[illegible]		
		16	RY	9 22	34°37'		
		17	R		33°15'		
		18	Y		32°00'		
		19	RY	9 25	32°15'		
		20	R		30°29'		

CUT IN 37+50

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1295 Pg. 147
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes C.B.S. Date 7-17-51
No. ____ Date ____ Date ____ Map No. ____ Indexed A. S. Johnson Date ____

F. B. 1295 Pg. 198 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

Indexed A. C. Johnson Date 7-17-51 Date _____ Date _____ No. _____

76L298 307 4-50

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STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
37+50 27+50	21	Y	930	25 9		
	22	RY		26 6		

CUT IN
27+50 S

76L298 307 4-50

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STATION 27130'S

#	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
				29.9				
1	R.Y.	9:02 0802		28.8 29.7	29.2	4.2	25.0	Very soft bottom
2	R.			27.8 27.8	28.4		24.2	" " "
3	Y.			26.3 27.1	26.8		22.6	" " "
4	R.Y.	9:07 0807		25.0 25.3	25.7	4.2	21.5	
5	R.			24.0 24.8	24.4		20.2	
6	Y.			23.0 23.8	23.6		19.4	
7	R.Y.	9:12 0812		22.0 22.8	22.6	4.2	18.4	
8	R.			21.0 21.4	21.6		17.4	
9	Y.			20.0 20.3	20.5		16.3	
10	R.Y.	9:16 0816		19.0 20.0	19.5	4.3	15.2	
11	R.			18.0 19.8	18.7		14.4	
12	Y			16.9 17.1	17.9		13.6	
13	R.Y.	9:21 0821		15.7 16.8	16.2	4.3	11.9	
14	R.			14.4 14.4	15.2		10.9	
15	Y.			13.2 13.4	13.6		9.3	
16	R.Y.	9:22 0822		12.0 12.1	12.5	4.3	8.2	
17	R			10.9 10.6	11.3		7.0	
18	Y			9.4 10.1	9.8		5.5	
19	R.Y.	9:26 0825		8.3 9.0	8.9	4.3	4.6	
20	R			7.3	7.2		3.5	

BOAT #77105

over

Profile No. ____ X-Sec. No. ____

Notes Red. LWW Date 8-9-51 Plotted ____ Date ____

Notes Chkd. TM Date 8-10-51 Checked ____ Date ____

Job No. 8418 Division No. Y Survey of BEACH FOUNDATION STUDIES

Survey by E.H.B. Notes E.B.K. Date 7-17-51

Map No. ____ Indexed J.O.B. Date ____

F.B. 12 R PG. 199

F. B. 129 Pg. 200 Job No. 8412 Division No. V Notes Red Lew. Plotted Profile

Survey of Beach Erosion Studies Date 8-9-51 Date No.

Survey by F.H.B. Notes Vallnogle Notes Chkd T.M.I. Checked X-Sec.

Indexed C. Johnson Date 7-17-51 Date 8-20-51 Date No.

BOAT
27+50 S

STATION 27+50 S	B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
21.	Y.		7.9	6.7	4.3	2.4	
22.	R.Y.	9:29 0829	6.1 7.3	5.9	4.3	1.6	

76L298 307 4-50

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76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.		
22+50	1.7	31.4		29.66	old 1x2 stk fl.	SHORE ∡ 90°
30L			2.6	28.8	on edge of old	P.E. R/W
75L			12.7	18.7	in beach sand	
T.P. (est) 70L	0.0	19.5	11.9	19.5	" "	"
150L			6.1	13.4	" "	"
210L			5.0	14.5	" "	"
TRAVERSE 245L 17450			6.6	12.9	" "	"
∡ 28°-23'			5.9	13.6	" TADE 270	(Calc 270.2)
T.P. 272L	1.5	15.1	5.9	13.6	T.P. 272 LT	"
30°-37'			3.1	12.0	297' LT	(Calc. 296)
32°-43'			6.3	8.8	322 "	(Calc 321)
35°-26' T.P.	1.6	6.3	10.4	4.7	T.P 357'	(Calc 356) WATER.
38°-11'			4.8	1.5	393 Calc.	OCEAN FLOOR
41°-07'			6.8	-0.5	436 "	" "
44°-24'			7.5	-1.2	490 "	" "
47°-17'			8.5	-2.2	542	"
49°-40'			9.8	-3.5	589	" "
50°-51'			10.6	-4.3	614	

SHORE
22+50 S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (EL SEGUNDO)
Notes Chkd. T.M.I. Checked ____ Survey by G.K. Crumley Notes Avg. Date 7-17-51
Date 8-13-51 Date ____ Map No. ____ Indexed J. Johnson Date ____

F.B. 298 Pg. 201

76L298 307 5-49

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Do not extend notes this side of this line.

13.7
47
9.4

STATION	B. S.	H. I.	F. S.	ELEV.		
17+50	01	30 8		30 67	old 1x2 stk & n	SHORE ∡ 90°
47L			46	26 2	on beach sand	
80L	03	19 2	11 9	18 9	" " "	
172L			6.0	13 2	" " "	
242L			4 8	14 4	" " "	
TRANSOM 22+50 265L			5 0	14 2	" " "	
302L			1 5	13 7	" " "	
33°-16' T.P.	11	13 7	6 6	12 6	T.P. 328 Calc "	
35°-42'			5 2	8 5	359 Calc	
37°-50' T.P.	23	7 0	9 0	4 7	T.P. 388 Calc WATER	
40°-45'			5 8	1 2	431 " ocean floor	
42°-53'			6 5	[illegible]	464 "	"
45°-16			7 2	-[illegible] 2	505 "	"
47°-46'			8 5	-1 5	551 "	"
49°-18'			9 1	-[illegible]	581 "	
53°-13'			11 8	-4	669 "	

SHORE 17+50 S

F.B. 729 PG. 202 98
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES (EL SEGUNDO) Date Date X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.M.I. Checked No.
Indexed E. C. Johnson Date 7-17-51 Date 8-13-51 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	
22+50	S-1	1	R&Y	9:52	89°40		
		2	R		89°50		
		3	Y		89 42		
		4	R&Y	9:56	89 46		
		5	R		89 52		
		6	Y		89 52		
		7	R&Y	10:00	90 02		
		8	R		90 05		
		9	Y		90 01		
		10	R&Y	10:05	89°55		
		11	R		90 03		
		12	Y		90°08		
		13	R&Y	10:09	90°09		
		14	R		89°38		
		15	Y		89°55		
		16	R&Y	10:12	90°11		
		17	R		90°11		
		18	Y		90°04		
		19	R&Y	10:14	90°18		
		20	R	10:15	89 39		

RANGE
22+50 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. 5 V F. B. 7295 Pg. 203
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-17-51
No. ____ Date ____ Date ____ Map No. ____ Indexed A.C. Johnson 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	
17+50	S-1	1	R&Y	10:28	8[illegible]		
		2	R		8[illegible]		
		3	Y		[illegible]		
		4	R&Y	10:31	8[illegible]		
		5	R		8[illegible]		
		6	Y		89 50		
		7	R&Y	10:34	8[illegible]		
		8	R		9[illegible]		
		9	Y		[illegible]		
		10	R&Y	10:38	90 [illegible]		
		11	R		9[illegible]		
		12	Y		9[illegible]		
		13	R&Y	10 42	8[illegible]		
		14	R		[illegible]		
		15	Y		9[illegible]		
		16	R&Y	10:45	9[illegible]		
		17	R		90 [illegible]		
		18	Y		9[illegible]		
		19	R&Y	10:[illegible]	[illegible]		
		20	R		9[illegible]		

RANGE 17+50 S

F. B. 1295 Pg. 204 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Survey Date Date No. X-Sec.
Survey by F.H.B. Notes M.S. Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

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	
S-1	22+50	1	RY	9 51	78°34'		
		2	R		75°53'		
		3	Y		75°13'		
		4	RY	9 56	74°21'		
		5	R		72°21'		
		6	Y		71°10'		
		7	RY	9 59	70°04'		
		8	R		69°17'		
		9	Y		68°22'		
		10	RY	1004	67°48'		
		11	R		66°43'		
		12	Y		64°21'		
		13	RY	1008	63°29'		
		14	R		63°08'		
		15	Y		61°31'		
		16	RY	1011	60°15'		
		17	R		58°58'		
		18	Y		57°55'		
		19	RY	1013	56°33'		
		20	R	1015	55°43'		

Cut in 22+50 S

Profile Notes Red. ____ Plotted ____ Job No. 5412 Division No. ____ F. B. 1295 Pg. 205
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes C.B.S. Date 7-17-51
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1295 Pg. 206 Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

Indexed A. C. [redacted] Date 7-17-51 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
S-1 17+50	1	RY	1027	64 3'		
	2	R		61 2'		
	3	Y		59 6'		
	4	RY	1030	57 2'		
	5	R		55 3'		
	6	Y		53 1'		
	7	RY	1034	52 7'		
	8	R		50 19'		
	9	Y		49 7'		
	10	RY	1038	47 8'		
	11	R		48 8'		
	12	Y		46 03'		
	13	RY	1042	45 6'		
	14	R		42 18'		
	15	Y		41 3'		
	16	RY	1045	39 8'		
	17	R		38 3'		
	18	Y		38 5'		
	19	RY	1049	37 19'		
	20	R		36 3'		

CUT IN
17+50 S

Sec 2/3

/ 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 227505		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
			30.4					
1	R.Y.	9:51 0851	28.9 29.0	29.4	4.4	25.0		Very soft bottom
2	R.		27.8 28.4	28.2		23.8		" " "
3	Y.		26.6 26.8	27.2		22.8		" " "
4	R.Y.	9:55 0855	25.5 25.2	25.9	4.4	21.5		
5	R		24.0 24.0	24.4		20.0		
6	Y.		22.6 22.5	23.1		18.7		
7	R.Y.	9:59 0859	21.5 21.6	21.8	4.4	17.4		
8	R		20.5 20.2	20.9		16.5		
9	Y.		19.2 19.4	19.5		15.1		
10	R.Y.	10:04 0904	17.9 17.8	18.4	4.4	14.0		
11	R.		16.5 16.5	16.9		12.5		
12	Y.		15.1 15.0	15.6		11.2		
13	R.Y.	10:08 0908	13.8 14.0	14.2	4.4	9.8		
14	R.		12.5 12.0	13.0		8.6		
15	Y.		11.0 10.5	11.3		6.9		
16	R.Y.	10:11 0911	9.5 9.1	9.8	4.4	5.4		
17	R.		8.0 8.5	8.4		4.0		
18	Y.		7.0 7.3	7.5		3.1		
19	R.Y.	10:13 0913	6.0 6.8	6.4	4.4	2.0		
20	R.	10:14 0914	4.8	5.5	4.4	1.1		

BOAT
227505

Profile Notes Red LCUR Plotted ____ Job No. 8412 Division No. V F. B. 1295 PG. 207
No. ____ Date 8-9-51 Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.K. Checked ____ Survey by F.H.B. Notes E.R.V. Date 7-17-51
No. ____ Date 8-20-51 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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Do not extend notes this side of this line.

F. B. 1295 Pg. 208 Job No. 8412 Division No. X Notes Red Pur Plotted ____ Profile ____
Survey of Beach Erosion Studies Date 8-9-51 Date ____ No. ____
Survey by F.H.B. Notes Vallnogle Notes Chkd T.M.I. Checked ____ X-Sec. ____
Indexed C. Johnson Date 7-17-51 Date 8-20-51 Date ____ No. ____

STATION 17+50S		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	R.Y.	10:27 0927	29.8 28.8 28.9	29.1	4.3	24.8		Very soft bottom
2	R		27.7 27.7	28.1		23.8		" " "
3	Y.		26.7 26.7	27.0		22.7		" " "
4	R.Y	10:30 0930	25.2 25.1	25.7	4.3	21.4		" " "
5	R		24.0 24.3	24.4		~~20.0~~ 20.1		" " "
6	Y.		23.0 23.1	23.4		19.1		" " "
7	R.Y.	10:33 0933	22.0 22.1	22.4	4.3	18.1		" " "
8	R.		21.0 21.1	21.4		17.1		
9	Y.		20.0 20.0	20.4		16.1		
10	R.Y.	10:38 0938	19.0 19.0	19.3	4.3	15.0		
11	R		18.0 17.6	18.3	4.3	14.0		
12	Y.		16.6 16.9	16.9	4.2	12.7		
13	R.Y.	10:41 0941	15.1 15.2	15.7	4.2	11.5		
14	R.		14.1 14.2	14.5		10.3		
15	Y		13.0 13.1	13.4		9.2		
16	R.Y.	10:44 0944	11.7 11.5	12.2	4.2	8.0		
17	R.		10.5 10.8	10.8		6.6		
18	Y		9.5 9.7	9.9		5.7		
19	R.Y.	10:48 0948	8.5 8.7	8.9	4.2	4.7		
20	R.		7.5	7.9		3.7		

BOAT 17+50S

21 & 22 see page 215

76L298 307 5-49

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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.

7.6
4-1
2.9
7.2
47
25

STATION	B. S.	H. I.	F. S.	ELEV.			
12+50	0.54	29.97		29 45 (43 ADJ)		L.B.N. AN BLACK TOP PAV. ± 50' N. of oil Co. Found HSE.	
			00	300		16' RT	E. edge PAV. SHORE ∡ 90°
			08	292		4' LT	W. " "
			15	285		7 "	BRK
			30	270		21 "	"
			49	251		55 "	TOP BRK
			85	215		63 "	
			96	204		81 "	
			107	193		142	ST'D oil Co Fence (westly)
T.P.	0.1	181	12.0	18.0	T.P.	157	TOP ROCK EMBANKMENT ~~BREAK Water~~
			75	106		160	BASE of " " "
			69	11.2		185	BEACH
			52	129		220	"
(∡S BASE = 450')			42	139		260	"
			49	132		325	"
TRANS. ON 8+00			72	10.9		352	"
∡ 41°-19'-T.P	07	72	116	65	T.P.	395 calc.	"
42°-13'			25	47		408 calc.	Water
44°-33'			56	16		443 calc.	OCEAN FLOOR
45°-19'			69	03		455 "	" "
46°-03'			67	05		467 "	" "
48°-49'			74	-02		514 "	" "
52°-41'			92	-20		590 "	" "
55-40'			107	-35		659 "	" "

SHORE 12+50 S

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 129 PG. 209
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (EL SEGUNDO)
Notes Chkd. T.H.I. Checked ____ Survey by C.V. CRUMLEY Notes C.V.C. Date 7-17-51
Date 8-23-51 Date ____ Map No. ____ Indexed Job Note Date ____

76L298 307 5-49

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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.

12.0
4.7
7.7

STATION	B. S.	H. I.	F. S.	ELEV.		
8+00	13	321		303		SHORE ∡ 90°
					NEW 1X2 W. edge RD.	
			05	316	27' RT.	E. edge RD
			1.7	304	3' LT	W. " "
			4.6	275	9 "	Toe SL
			60	261	15.5 "	Top SL.
			85	236	22.0	Bot. "
			64	251	36.0 "	Top SL.
			107	214	53.0	Bot SL. - Beach.
T.P.	10	211	12.0	201	T.P. 65.0 "	"
			46	165	106.0 "	"
			69	142	160 "	"
			83	127	198 "	
(TRANSI on 3+00)			72	139	260 "	
			78	133	33[illegible] "	
35°-25' T.P.	28	124	115	[illegible]	T.P. TAPE 358 " (Calc 356')	
37°-01'			56	68	378 (Calc. 377	- WATER
38°-16' T.P.	5.2	7.9	7.7	47	T.P. 395 (Calc. 394.4)	OCEAN FLOOR
40°-30'			8.0	1.9	427 Calc.	" "
42°-57'			9.0	0.9	465 "	" "
45°-32'			10.2	-0.3	509 "	" "
48°-50'			11.7	-1.8	572 "	" "

SHORE ∡ 90°

SHORE 8+00 S

F.B. 1295 PG. 210 100
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES (EL SEGUNDO) Date Date X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.N.1 Checked No.
Indexed E. C. Johnson Date 7-18-51 Date 8 13 57 Date

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.			
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks	
17+50 S-1							
~~17+50 3+00~~	21	Y		90°15'			
	22	R+Y	10:52	90°15'			

RANGE
17+70 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 128 Pg. 211
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-17-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1295 Pg. 212 (7)

Job No. 9412 Division No. 1 Notes Red. _____ Plotted _____ Profile

Survey of Beach Erosion Studies Date 7-17-51 Date _____ No. _____

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

Indexed A. C. Johnson Date _____ Date _____ Date _____ No. _____

RANGE
12+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. Sight At On	#	Color	Time	Hor. Ang.		Remarks
12+50 8+00	1	R-Y	11 10	89 47	.	
	2	R	.	90 05	.	
	3	Y		89 41'	.	
	4	R-Y	11 15	90 30'	.	
	5	R		90 40'	.	
	6	Y		90 22	.	
	7	R-Y	11 17	90 28	.	
	8	R		90 30	.	
	9	Y		90 42	.	
	10	R-Y	11 20	90 18'	.	
	11	R		90 5	.	
	12	Y		90 7'	.	
	13	R-Y	11 22	90 38	.	
	14	R		90 22'	.	
	15	Y		89 38	.	
	16	R-Y	11 23	89 9'	.	
	17	R	.	89 59'	.	
	18	Y		89 57	.	
	19	R-Y	11 28	90 20	.	
	20	R	11 29	89 55	.	

Profile	Notes Red.	Plotted	Job No. 8412	Division No.	F. B. 1295 Pg. 213
No.	Date	Date	Survey of Beach Erosion Studies		
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B.	Notes C.B.S.	Date 7-17-51
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date

CUT IN
17+50 S

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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From 206

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
S-1 17+50	21	Y		34°12'	
	22	RY	10.52	32°55'	

76L298 307 4-50

76L298 307 4-50

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Do not extend notes this side of this line.

STATION Inst. At	STATION Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
4+00	12+50	1	RY	11 10	65°[illegible]0'	-
		2	R		59°15'	-
		3	Y		57°26'	-
		4	RY	11 14	55°[illegible]	-
		5	R		[illegible]	-
		6	Y		[illegible]	-
		7	RY	11 16	[illegible]	-
		8	R		[illegible]	-
		9	Y		[illegible]	-
		10	RY	11 19	[illegible]	-
		11	R		[illegible]	-
		12	Y		43°51'	-
		13	RY	11 21	[illegible]	-
		14	R		[illegible]	-
		15	Y		[illegible]	-
		16	RY	11 26	[illegible]	-
		17	R		[illegible]	-
		18	Y		37°02'	-
		19	RY	11 28	35°26'	-
		20	R	11 29	[illegible]	-

Cut in 12+50

F. B. 1295 Pg. 214 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F.H.B. Notes C.B.S. Notes Chkd. Checked X-Sec.
Indexed R. C. J. Date 7-17-51 Date Date No.

76L298 307 4-50

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From Page 208

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STATION 17+50		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
			7.5					
21	Y		6.0	6.5	4.1	2.4		
			6.5					
22	R.Y.	10:52 0952	5.0	5.5	4.1	1.4		

Boat 17+50 S

Profile Notes Red RCW Plotted RCW Job No. 8412 Division No. V F. B. 1295 Pg. 215
No. Date 8-9-51 Date 8-24-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd T.M.I. Checked Survey by F.H.B. Notes E.R.V. Date 7-17-51
No. Date 8-20-57 Date Map No. Indexed Date

76L298 307 4-50

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Do not extend notes this side of this line.

STATION 12+50S	B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	R.Y.	11:09 10 09	30.1 28.6 28.8	29.1	4.0	25.1	
2	R.		27.2 27.3	27.7		23.7	
3	Y.		26.0 26.2	26.4		22.4	
4	R.Y.	11:14 10 14	24.8 24.8	25.3	4.0	21.3	
5	R.		23.5 23.9	23.9		19.9	
6	Y.		22.2 22.2	22.8		18.8	
7	R.Y.	11:16 10 16	20.7 20.5	21.2	4.0	17.2	
8	R.		19.5 19.1	19.8		15.8 16.8	
9	Y.		18.1 18.3	18.4		14.4	
10	R.Y.	11 19 10 19	16.9 16.6	17.4	3.9	13.5	
11	R.		15.5 15.7	15.9		12.0	
12	Y.		14.0 14.4	14.6		10.7	
13	R.Y.	11:21 10 21	13.0 14.0	13.5	3.9	9.6	
14	R.		12.0 12.2	12.7		8.8	
15	Y.		10.7 10.7	11.2		7.3	
16	R.Y.	11:25 10 25	9.7 9.6	10.0	3.9	6.1	
17	R.		8.4 8.8	8.8		4.9	
18	Y.		7.0 7.5	7.6		3.7	
19	R.Y.	11:27 10 27	6.0 6.8	6.5	3.8	2.7	
20	R.	11:28 10 28	4.8	5.5	3.8	1.7	

BOAT 12+50S

F. B. 1295 Pg. 216 Job No. 8412 Division No. Y Notes Red. Rev. Plotted T.M.L. Profile
Survey of Beach Erosion Studies Date 8-9-51 Date 8-24-51 No.
Survey by F.H.B. Notes Vollnagle Notes Chkd. T.M.L. Checked X-Sec.
Indexed A. C. Johnson Date 7-17-51 Date 8-20-51 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.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
8+00	0+00	1	R & Y	11:47	90°28		
		2	R		90°22		
		3	Y		90°19		
		4	R & Y	11:51	90°40		
		5	R		90°10		
		6	Y		90°21		
		7	R & Y	11:57	90°06		
		8	R		89°55		
		9	Y		90°00		
		10	R & Y	12:00	89°57		
		11	R		90°06		
		12	Y		89°59		
		13	R & Y	12:03	89°48		
		14	R		90°04		
		15	Y		89°46		
		16	R & Y	12:05	89°50		
		17	R		89°50		
		18	Y		90°07		
		19	R & Y	12:07	89°52		
		20	R		89°46		

RANGE
8+00 S

Profile Notes Red. Plotted LRW. Job No. 8412 (8) Division No. V F. B. 1295 Pg. 217
No. Date Date 8-22-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes M.S. Date 7-17-51
No. Date Date Map No. Indexed Date

F. B. 1295 Pg. 218 | Job No. 8412 | Division No. V | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date 7-17-51 | Date | No.

Survey by FH 3 | Notes M.S. | Notes Chkd. | Checked | X-Sec.

Indexed A. C. Johnson | Date | Date | Date | No.

RANGE
8+00 S

Inst. Sight At	#	Color	Time Hor. Ang.	Remarks
8+00 0+00	21	Y	12:10 90°5'	

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 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
[illegible]	8100	1	RY	11 47	70°48'		
		2	R		69°35'		
		3	Y		68°00'		
		4	RY	11 51	65°00'		
		5	R		63°01'		
		6	Y		[illegible]		
		7	RY	11 56	61°12'		
		8	R		59°56'		
		9	Y		58°23'		
		10	RY	12 00	57°25'		
		11	R		56°09'		
		12	Y		55°03'		
		13	RY	12 03	53°05'		
		14	R		52°05'		
		15	Y		50°57'		
		16	RY	12 05	50°20'		
		17	R		49°18'		
		18	Y		47°46'		
		19	RY	12 07	46°46'		
		20	R		44°57'		

Cut in 8700 S

Profile Notes Red. ____ Plotted ____ Job No. 3412 Division No. ____ F. B. 1295 Pg. 219
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes C.B.S. Date 7-17-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1295 Pg. 220

Job No. 3-112 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

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

Indexed A. C. Johnson Date 7-17-51 Date _____ Date _____ No. _____

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
2+23 8+00	21	Y	1210	[illegible]		

CUT IN.
8+00 S

76L298 307 4-50

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STATION 8+00.3

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			29.4				
1	R.Y.	11:47	28.3	28.7	3.6	25.1	
		1047	28.6				
2	R		27.1	27.6		24.0	
			27.5				
3	Y		26.1	26.6		23.0	
			26.3				
4	R.Y.	11:51	25.0	25.4	3.6	21.8	
		1051	25.3				
5	R.		24.0	24.4		20.8	
			23.9				
6	Y		22.7	23.1		19.5	
			23.4				
7	R.Y.	11:56	21.7	22.3	3.6	18.7	
		1056	21.7				
8	R		20.5	20.9		17.3	
			20.6				
9	Y.		19.3	19.7		16.1	
			19.5				
10	R.Y.	12:00	18.0	18.5	3.5	15.0	
		1100	18.2				
11	R.		16.9	17.3		13.8	
			17.3				
12	Y.		15.5	16.1		12.6	
			16.0				
13	R.Y.	12:03	14.5	15.0	3.5	11.5	
		1103	15.5				
14	R.		13.5	14.2		10.7	
			13.7				
15	Y.		12.0	12.6		9.1	
			12.1				
16	R.Y	12:04	10.7	11.2	3.5	7.7	
		1104	11.5				
17	R.		9.3	10.0		6.5	
			9.2				
18	Y.		7.8	8.3		4.8	
			7.8				
19	R.Y	12:06	6.3	6.8	3.5	3.3	
		1106	6.3				
20	R.		5.2	5.6		2.1	

Over

Profile Notes Red Clink Plotted Clink Date 8-24-51 Job No. 0412 Division No. V F. B. 1295 Pg. 221
No. X-Sec. Notes Chkd. T.M.L. Checked Date Survey of Beach Erosion Studies
No. Date 8-28-51 Date Survey by F.H.R. Notes F.R.V. Date 7-17-51
Map No. Indexed Johnson Date

F.B. 1295 Pg. 222 Job No. 8412 Division No. V Notes Red. L. C. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by F.H.B Notes Vollnagle Notes Chkd T.M.I Checked X-Sec.

Indexed [illegible] Date 7-17-51 Date 8-20-51 Date No.

BOAT
8+00S

STATION	B.S.	H.I.	F.S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
21	Y	12:40 11:10	6.8 4.2	5.1	3.4	1.7	

76L298 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
4+00	43	337		2938	NEW 1X2 - K. Slope of RD.	SHORE 490'
			10	327	8' RT. - K edge RD.	
			08	329	31 " E. " "	
			59	278	6 LT. TOE SL.	
			59	278	12 " " "	
			46	291	15 " TOP "	
			94	243	24 " TOE "	
			96	241	34 " " "	
			80	257	39 " TOP	
T.P	10	337	120	217 T.P	49 " TOE "	
			105	122	150 "	SHORE 4+00 S
			107	120	124 "	
			95	132	250 "	
TRANS. ON 9+00			91	136	325 "	
34°-32' T.P	20	136	117	110 T.P	TAPE 348 (Calc. 344)	
			61	75	368 " Motor	
37°-49' T.P	48	95	89	47 T.P	388 (calc 388) " " FLOAR	
40°-07'			79	16	421 calc.	" " "
42°-02'			100	-05	451 "	" " "
43°-01'			98	-03	467 "	" " "
45°-53'			103	-10	515 "	
47°-51'			113	-18	552 "	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ 101 F.B. 29 PG. 223
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (EL SEGUNDO)
Notes Chkd. T.M.I. Date 8-13-51 Checked ____ Date ____ Survey by C.V.C. Notes C.V.C. Date 7-18-51
Map No. ____ Indexed ____ Date ____

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12.3
6.7
76

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
0+00 N.&S.	3.7	29.6		25.[illegible]		(NEAR N.E. COR. STD OIL CO. SALT WATER PLANT.) BRASS CAP MON IN HOLE. SHORE ∡ 90°
"			20	27.6		Sand.
			00	24.[illegible]		13' RT TOE SL.
			4.3	2[illegible].3		25 LT. — BRK.
T.P.	14	19.9	11.1	18.[illegible]	T.P	98 "
TRANS. ON 5+00 NORTH ∡S T.P	3.2	12.3	108	9.[illegible]	T.P	? NOTE: READINGS ON BEACH NOT TAKEN a/c CONSTRUCTION
36°-15'			58	[illegible]		366.6 Calc. Water
37°-33' T.P	4.4	9.1	76	[illegible]	T.P.	384 Calc.
39°-42'			67	[illegible]		415 " OCEAN FLOOR.
42°-25'			82	[illegible]		457 " " "
46°-26'			104	-1.3		526 " " "
49°-34'			116	-2.[illegible]		587 " " "
READING AFTER CONST. — C.V.C. 8-30-51						
0+00	3.3	29.2		25.93		MON. ABOVE
0+00			20	27.2		Sand
			36	25.6		25 LT
			5.2	24.0		34
			10.4	18.8		95
			11.1	18.1		106' TOP BANK AT ROCK WALL
T.P.	08	17.9	12.1	17.1	T.P	
			3.9	14.[illegible]		112 BOT. " " " "
			7.3	10.[illegible]		150 BRK ON BEACH.
			8.3	9.[illegible]		185 " " "
			10.4	7.[illegible]		224 " " "
			10.5	7.4		258
			6.2	11.[illegible]		362 — TOP BRK ON BEACH ?
			7.7	10.7		395 BRK " "
			10.7	7.2		397 — Water

SHORE 0+00 N.&S.

F.B. 1295 PG. 22 102 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH EROSION STUDIES (EL SEGUNDO) Date Date X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.M.I. Checked
Indexed C. Johnson Date 7-18-51 Date 8-13-51 Date No.

76L298 307 5-49

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STATION	B. S.	H. I.	F. S.	ELEV.		
0+00 N&S.	1.67	27.66		25.93	BRASS CAP MON IN HOLE	
"			0.4	27.2	" SAND	
			1.9	25.7	25' LT	
			8.7	18.9	98' "	BRK
			9.8	17.8	106 "	TOP BRK.
T.P.	0.6	17.1	11.1	16.5	T.P.-TOP ROCK.	
			2.7	14.4	112	BRK
			4.0	13.1	121	"
			6.2	10.9	150	"
			7.4	9.7	185	
			9.5	7.6	224	Hole
			9.3	7.8	258	
			8.0	9.1	300	
			5.3	11.8	362	
			5.2	11.9	369	
			6.6	10.5	375	
TRANS. ON 5400 NORTH			9.9	7.2	397	
39°-46' T.P.	2.0	7.3	11.8	5.3	T.P. TAPE 415	416. calc.
			4.0	3.3	443	Water TAPE
			4.5	2.8	457	"
45°-24			6.8	0.5	calc. 507.0	BRK
48°-07			8.0	-0.7	" 557.5	
49°-32			9.7	-2.4	" 593.0	
52°-00			13.0	-5.7	" 688.0	

SHORE
0+00 N&S.

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1225 PG. 224A
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by CKROMLEY Notes C.K.C. Date 9-14-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.		
4+00	43	33.7		29.38	New 1x2 - W slope of Rd.	Shore ∡ 90°
			1.0	32.7	8' Rd. - W. edge Rd.	
			0.8	32.9	34 Rt. E "	
			5.9	27.8	6 Lt. Toe Sl.	
			5.9	27.8	12' " " "	
			4.6	29.1	15 " Top "	
			9.4	24.3	24 " Toe "	
			9.6	24.1	34 " " "	
			8.0	25.7	39 " Top "	
T.P.	1.0	22.7	12.0	21.7	TP 49 " Toe "	
			10.5	12.2	150 "	
			10.7	12.0	184 "	
			9.5	13.2	250 "	
Trans on 9+00			9.1	13.6	325 "	
∡ 34°-32' T.P.	2.6	13.6	11.7	11.9	T.P. Tape 344 " calc 344	
			6.1	7.5	368 " Water	
37°-49 T.P.	4.8	9.5	8.9	4.7	T.P. 388 (calc 388)	ocean floor.
40°-07			7.9	1.6	421 calc	
42°-02			10.0	-0.5	451 "	
43°-01			9.8	-0.3	467 "	
45°-53			10.5	-1.0	515 "	
47°-51			11.3	-1.8	552 "	

SHORE 4+00 S.

F.B. 1295 PG. 223A
Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by CVC Notes CVC Notes Chkd. Checked No.
Indexed Date 7-18-51 Date Date

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
4+00	12+50	1	R&Y	9 06 5	89° 30.	
		2	R		89° 55.	
		3	Y		89° 57.	
		4	R&Y	9 13	90° 08	
		5	R		89° 54	
		6	Y		90° 00	
		7	R&Y	9 16	90° 00	
		8	R		89° 54.	
		9	Y		89° 48	
		10	R&Y	9 18	89° 48.	
		11	R		89° 57.	
		12	Y		90° 03.	
		13	R&Y	9 20	89° 35.	
		14	R		89° 50.	
		15	Y		89° 58.	
		16	R&Y	9 23	89° 24.	
		17	R		89° 47.	
		18	Y		89° 59.	
		19	R&Y	9 24	90° 00.	
		20	R		90° 18.	

RANGE 4+00S

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. 4 V F.B. 129 Pg. 225
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-18-51
Date ____ Date ____ Map No. ____ Indexed Date ____

F.B. 7295 PG. 226 | Job No. 8412 | Division No. V | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date 7-17-51 | Date | No.

Survey by F.H.B. | Notes M.S. | Notes Chkd. | Checked | X-Sec.

Indexed A. C. Johnson | Date | Date | Date | No.

RANGE
4+00 S

FORM 30-10M 10-46

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700 HALL OF RECORDS

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STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
4+00 12+50	21	Y		90°08'		
	22	R&Y	9:26	90°07'		

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	
12+50	4+00	1	R & Y	9:06	66°03'	-	
		2	R		63°17'	-	
		3	Y		60°44'	-	
		4	R & Y	9:12	57°19'	-	
		5	R		55°18'	-	
		6	Y		52°06'	-	
		7	R & Y	9:15	50°46'	-	
		8	R		49°21'	-	
		9	Y		47°40'	-	
		10	R & Y	9:17	46°24'	-	
		11	R		45°03'	-	
		12	Y		43°40'	-	
		13	R & Y	9:20	43°02'	-	
		14	R		41°45'	-	
		15	Y		39°31'	-	
		16	R & Y	9:22	38°46'	-	
		17	R		38°06'	-	
		18	Y		37°06'	-	
		19	R & Y	9:24	36°47'	-	
		20	R		35°28'	-	

CUT IN 4+00 S

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1295 Pg. 227
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Mack Date 7-18-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1295 Pg. 229 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by Blanchard Notes MACK Notes Chkd. Checked X-Sec.

Indexed A. C. Johnson Date 7-18-51 Date Date No.

Cut in
4+00 S

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
12+50 4+00	21	Y		3 49	
	22	R & Y	9:26	32 26	

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STATION 4+00 J

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			29.5				
1	R.Y.	9:06 0806	28.6 28.4	28.9	4.0	24.9	Very soft bottom
2	R.		27.6 27.2	27.9	4.0	23.9	" " "
3	Y.		26.4 26.3	26.7	4.1	22.6	" " "
4	R.Y.	9:12 0812	25.4 25.4	25.7	4.1	21.6	" " "
5	R.		24.4 24.0	24.7		20.6 19.4	" " "
6	Y.		23.2 23.2	23.5		19.1	
7	R.Y.	9:15 0815	22.2 22.2	22.5	4.1	18.4	
8	R.		21.2 21.1	21.5		17.4	
9	Y.		20.0 20.1	20.4		16.3	
10	R.Y.	9:18 0818	19.0 19.1	19.4	4.1	15.3	
11	R.		17.9 17.4	18.3		14.2	
12	Y.		16.8 16.2	17.0		12.9	
13	R.Y.	9:20 0820	15.6 15.5	15.8	4.1	11.7	
14	R.		14.5 14.0	14.8		10.7	
15	Y.		13.2 12.5	13.5		9.4	
16	R.Y.	9:23 0823	11.9 11.2	12.1	4.2	7.9	
17	R.		10.6 10.0	10.8		6.6	
18	Y		9.2 9.0	9.5		5.3	
19	R.Y.	9:24 0824	8.2 8.0	8.5	4.2	4.3	
20	R.		7.2	7.5		3.3	

BOAT 4+00 S

OVER

Profile No. ____ Notes Red. Chkd. T.M.L. Date 8-22-51 Plotted ____ Date ____ Checked ____ Date ____ Job No. 8412 Division No. V Survey of Beach Erosion Study Survey by F.H.B. Notes F.R.M. Date 7-18-51 Map No. ____ Checked ____ Date ____ F. B. 1295 PG. 229

X-Sec. No. ____

F. B. 1295 PG 230 | Job No. 8412 Division No. V | Notes Red. LCW. | Plotted | Profile

Survey of Beach Erosion Studies | Date 8-9-51 | Date | No.

Survey by F.H.B. | Notes Vallnagle | Notes Chkd T. M. | Checked | X-Sec.

Indexed K. C. Johnson | Date 7-18-51 | Date 8-20-57 | Date | No.

BOAT
4+00 S

#	STATION	Color	B. S.	Time	H. I.	Meas. Depth	F. S.	Bottom	ELEV.	Ht. Tide	Adj. Depth	Remarks
21		Y		8:26		6.1		6.4		1.2	2.2	
22		RY		0826		5.0		5.3		1.2	1.1	

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STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
0+00	8+00 South	1	R-Y	9 53	90 00	
		2	R		89°56	
		3	Y		90°05	
		4	R-Y	9°56'	89 31	
		5	R		89°54	
		6	Y		89 59	
		7	R-Y	9:59	89°53	
		8	R		89°53	
		9	Y		89°53	
		10	R-Y	10 01⁵	89°59	
		11	R		89°59	
		12	Y		89°50	
		13	R-Y	10 05⁵	89°31	
		14	R		90°09	
		15	Y		89°54	
		16	R-Y	10 09	89°54	
		17	R		89°50	
		18	Y		90°03	
		19	R-Y	10 12⁵	89°53	
		20	R		89°53	

PANGE
0+00 N&S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V (5) F. B. 1291 Pg. 231
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes M.S.1 Date 7-18-51
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1295 Pg. 232 Job No. 8412 Division No. V Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date 7-18-51 Date No.

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

Indexed [illegible] Date Date Date No.

RANGE
0+00 N&S

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
0+00 8+00 South	21	Y		89°53		
	22	R&Y	10:16	89°53		
	23	R	10:17	89°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.

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	
8+00	0+00	1	R & Y	9:52	66°27'		
		2	R		65°14'		
		3	Y		63°40'		
		4	R & Y	9:55	60°21'		
		5	R		57°01'		
		6	Y		55°19'		
		7	R & Y	9:59	53°16'		
		8	R		51°17'		
		9	Y		48°44'		
		10	R & Y	10:01	47°07'		
		11	R		46°08'		
		12	Y		44°32'		
		13	R & Y	10:05	43°42'		
		14	R		42°49'		
		15	Y		42°10'		
		16	R & Y	10:09	41°29'		
		17	R		41°10'		
		18	Y		40°06'		
		19	R & Y	10:12	39°42'		
		20	R		38°37'		

OUT IN
0+00 NOTES

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1295 Page 233
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes MACK Date 7-18-51
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F. B. 1295 Pg. 23A Job No. 8412 Division No. _____ Notes Red. _____ Plotted _____ Profile

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

Survey by Blanchard Notes MACK Notes Chkd. _____ Checked _____ X-Sec.

Indexed A. C. Johnson Date 7-18-51 Date _____ Date _____ No. _____

CUT IN
0+00 N & S

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
8+00 0+00	21	Y	10:15	36 47	
	22	R & Y		35 14	
	23	R	10:17	33 18	

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.

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

76L298 307 4-50

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 0+00 | B. S. | H. I. | F. S. | ELEV.

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			30.0				
1	R.Y.	9:52 0852	28.9 29.0	~~29.2~~ 29.3	4.4	~~24.8~~ 24.9	Very soft bottom
2	R		27.9 27.9	28.3		23.9	" " "
3	Y.		26.9 26.9	27.2		22.8	" " "
4	R.Y.	9:55 0855	25.9 25.9	26.2	4.4	21.8	" " "
5	R.		24.8 24.2	25.2		20.8	" " "
6	Y.		23.7 23.2	23.9		19.5	" " "
7	R.Y.	9:58 0858	22.4 22.0	22.7	4.4	18.3	" " "
8	R.		21.0 21.0	21.3		16.9	
9	Y.		20.0 19.8	20.3		15.9	
10	R.Y.	10:01 0901	18.9 18.6	19.2	4.4	14.8	
11	R.		17.8 17.5	18.1	4.4	13.7	
12	Y.		16.8 16.3	17.0	4.5	12.5	
13	R.Y.	10:05 0905	15.7 15.3	15.9	4.5	11.4	
14	R.		14.6 14.5	14.8		10.3	
15	Y.		13.6 13.2	13.9		9.4	
16	R.Y.	10:09 0909	12.5 12.4	12.7	4.5	8.2	
17	R		11.4 11.2	11.7		7.2	
18	Y		10.3 10.2	10.6		6.1	
19	R.Y.	10:12 0912	9.3 9.0	9.6	4.5	5.1	
20	R		8.2	8.5		4.0	

BOAT 0+00 N 85

Over

Profile Notes Red L. Crab Plotted Rcw. Job No. 8412 Division No. V
No. Date Date 8-24-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T. M. Checked Survey by F.H.B. Notes E.R.V. Date 7-18-51
No. Date 8-20-51 Date Map No. Indexed C. Johnson Date

F. B. 1295 Pg. 23

F. B. 1295 Pg. 23

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

Survey of Beach Erosion Studies Date 8-9-51 Date _____ No. _____

Survey by F.H.B. Notes Vollnagle Notes Chkd. T.M.J. Checked _____ X-Sec.

Indexed A. C. Johnson Date 7-18-51 Date 8-20-51 Date _____ No. _____

76L298 307 4-50

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

Do not extend notes this side of this line.

STATION 0+00	B.S.	H.I.	F.S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
21	Y.		8.0	7.3	4.5	2.8	
22	R.Y.	10:16 0916	7.0	6.3	4.5	1.8	
23	R.	10:17 0917	6.0	5.3	4.5	0.8	
			5.0				

BOAT

0+00 N & S

761.298 307 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.

87
47
4.0

STATION	B. S.	H. I.	F. S.	ELEV.			
5+75 NORTH	37	29.5		25.76	OLD 1X2 - South SIDE GROIN		
			19	27.6	TAPE 13' RT		TOE SL.
			18	27.7	12' LT		SHORE ∡ 90°
			61	23.4	32 "		
			100	19.5	41 "		
T.P.	15	19.2	118	17.7	T.P. 100 "		
			58	13.4	200 "		
			70	12.2	300 "		
(TRANS. AT 0+75 NORTH)			60	13.2	400 "		
			67	12.5	414 "		
∡ 42°-31' T.P.	13	8.7	118	7.4	T.P. 458 (Calc 458)		WATER.
44°-02'			40	4.7	483 Calc.		ocean FLOOR.
47°-26'			77	1.0	544 "		" "
50°-20'			89	-0.2	603 "		" "
53°-10'			104	-1.7	668 "		" "
55°-30'			118	-3.1	727.5 "		" "

SHORE
5+75 N

Profile Notes Red. Plotted Job No. 8442 Division No. 3 103 Tr. 7295 No. 232
No. Date Date Survey of BEACH EROSION STUDIES (EL SEGUNDO)
N-Sec. Notes Chkd. T.M.I. Checked Survey by C.V. CROWLEY Notes Calc. Date 7-18-57
No. Date 8-13-57 Date Map No. Indexed Date

F. B. 1295 Pg. 278 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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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

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

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	
5+75 NORTH	0+00	1	R-Y	10 32	89°54		
		2	R		89°48		
		3	Y		89°58		
		4	R-Y	10:37	89°58		
		5	R		89°41		
		6	Y		90°04		
		7	R-Y	10:42	89°59		
		8	R		89°59		
		9	Y		89°59		
		10	R-Y	10 435	89°50		
		11	R		89°56		
		12	Y		90°05		
		13	R-Y	10:48	90°05		
		14	R		89°53		
		15	Y		89°58		
		16	R-Y	10 49	89°59		
		17	R		89°59		
		18	Y		89°59		
		19	R-Y	10 54	89 59		
		20	R		89 59		

RANGE
5+75 N
5 edge grotn

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. V [illegible]
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes M.S. Date 7-18-51
No. ____ Date ____ Date ____ Map No. ____ Index Johnson Date ____

F.B. 1295 P.B. 246 Job No. 8412 Division No. V Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date 7-18-51 Date No.

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

Indexed C. Johnson Date Date Date No.

RANGE
5+75 N
S. edge grain

STATION	B.S.	H.I.	F.S.	ELEV.	
Inst. Sight Kt On	#	Color	Time	Hor. Ang.	Remarks
5+75 NORTH 0+00	21	Y		89°59'	
	22	R-Y	10:55	89°50'	

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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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	
0+00	5+75 N	1	R & Y	10:32	72°26'		
		2	R		70°47'		
		3	Y		69°53'		
		4	R & Y	10:37	67°35'		
		5	R		65°49'		
		6	Y		63°47'		
		7	R & Y	10:42	61°27'		
		8	R		60°36'		
		9	Y		59°44'		
		10	R & Y	10:43	57°30'		
		11	R		58°22'		
		12	Y		56°36'		
		13	R & Y	10:48	56°42'		
		14	R		56°17'		
		15	Y		55°36'		
		16	R & Y	10:49	54°53'		
		17	R		54°01'		
		18	Y		52°34'		
		19	R & Y	10:53	51°04'		
		20	R		50°00'		

Cut 1 N
5+75 N
S. edge groin

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F. E. 1295 Pg. 241
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by Blanchard Notes MACK Date 7-18-54
No. ____ Date ____ Date ____ Map No. ____ Indexed Job ____ Date ____

F. B. 1295 Pg. 242 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

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

Survey by Blanchard | Notes MACK | Notes Chkd | Checked | X-Sec.

Indexed E. C. Johnson | Date 7-18-51 | Date | Date | No.

76L298 307 4-56

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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.	Remarks
Inst. Sight At On	#	Color	Time	Her. Ang.	
0400 5+75N	21	Y		4 38	
	22	R&Y	10:54	4 18	

CUT IN
5+75 N
S. edge groin

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 5+75 N		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	R.Y.	10:32 0932	29.5 28.8 28.7	29.0	4.6	24.4	Very soft bottom
2	R.		27.7 27.7	28.0		23.4	" " "
3	Y.		26.7 26.7	27.0		22.4	" " "
4	R.Y.	10:37 0937	25.6 25.9	26.0	4.6	21.4	" " "
5	R.		24.4 24.7	24.9		20.3	" " "
6	Y.		23.2 23.1	23.7		19.1	" " "
7	R.Y.	10:42 0942	22.1 22.0	22.4	4.6	17.8	" " "
8	R.		21.0 21.0	21.3		16.7	" " "
9	Y.		19.9 19.9	20.3		15.7	
10	R.Y.	10:43 0943	18.9 19.0	19.2	4.6	14.6	
11	R.		17.8 17.8	18.2		13.6	
12	Y.		16.7 16.4	17.1		12.5	
13	R.Y.	10:47 0947	15.6 15.9	15.9	4.6	11.3	
14	R		14.5 14.2	15.0		10.4	
15	Y.		13.4 13.1	13.7		9.1	
16	R.Y.	10:49 0949	12.2 12.3	12.5	4.5	8.0	
17	R.		11.0 11.0	11.4		6.9	
18	Y.		10.0 10.0	10.3		5.8	Rocks on bottom
19	R.Y.	10:53 0953	9.0 9.0	9.3	4.5	4.8	" " "
20	R		8.0	8.3		3.8	" " "

Bomt
5+75 N
Sedge groin

over

Profile Notes Red. L.C.W. Plotted _____ Job No. 8412 Division No. V F.B. 1295 Pg. 243
No. _____ Date _____ Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.L. Checked _____ Survey by E.H.B. Notes E.R.V. Date 7-18-51
No. _____ Date 8-20-51 Date _____ Map No. _____ Indexed _____ Date _____

F.B. 1295 Pg. 244 | Job No. 8412 Division No. V | Notes Red L. C. W. | Plotted | Profile

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

Survey by E.H.B. | Notes Vollnagle | Notes Chkd T. M. J. | Checked | X-Sec.

Indexed A. C. Johnson | Date 7-18-51 | Date 8-20-51 | 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 5+25 N	#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
	21	Y	10:54	8.0	7.3	4.5	2.8	Rocks on bottom
	22	RY	0954	7.0	6.2	4.5	1.7	"
				6.9				
				5.9				

BOAT
5+75 N
Sledge groin

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
6+00 NORTH	0+00	1	R&Y	11:13	90°00	
		2	R		90°00	
		3	Y		89°58	
		4	R&Y	11:20	89°45	
		5	R		89°50	
		6	Y		89°40	
		7	R&Y	11:27	89°40	
		8	R		89°40	
		9	Y		89°33	
		10	R&Y	11:31	89°47	
		11	R		89°47	
		12	Y		89°47	
		13	R&Y	11:34	89°42	
		14	R		89°42	
		15	Y		89°42	
		16	R&Y	11:35	89°42	
		17	R		89°42	
		18	Y		89°46	
		19	R&Y	11:38	89°58	
		20	R		89°58	

RANGE
6+00 N
E Groin

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. No. ____ Date ____ Notes Chkd ____ Checked ____ Survey of BEACH EROSION STUDIES
Survey by F.H.B. Notes M.S. Date 7-18-51
Map No. ____ Date ____ Signed Johnson Date ____

F.B. 129 PP 245

F. 929 PG. 246 | Job No. 8412 Division No. V | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | Date | No.

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

Indexed C. John | Date | Date | Date | No.

RANGE
6+00 N
℄ groin

STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At On 6+00 North 0+00	# 21	Color Y	Time 11:40	Hor. Ang. 89 58	

FORM 303 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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 ___ Date ___ Plotted ___ Date ___ Job No. [illegible]
X-Sec. No. ___ Notes Chkd ___ Date ___ Checked ___ Date ___ Survey of Beach Erosion [illegible]
Survey by Blanchard [illegible] Notes by [illegible] Date [illegible]
Map No. ___ Indexed [illegible] Johnson Date ___

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 INITIALED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
0+00	6+00N	1				
		2	R	11:14	71°28'	
		3	Y		71°15'	
		4	R & Y	11:20	68°35'	
		5	R		66°44'	
		6	Y		63°17'	
		7	R & Y	11:27	61°50'	
		8	R		60°43'	
		9	Y		59°48'	
		10	R & Y	11:31	58°20'	
		11	R		57°02'	
		12	Y		56°38'	
		13	R & Y	11:33	55°58'	
		14	R		55°21'	
		15	Y		54°43'	
		16	R & Y	11:35	54°13'	
		17	R		53°28'	
		18	Y		52°38'	
		19	R & Y	11:37	51°09'	
		20	R		50°22'	

Cut in [illegible] & groin

761.208 307 4-40

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	
0+00	6+00N	21	Y	11:39	48° 57'		

Cut in 6+00 N & groin

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

76L29B 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 6700 N

#	Color	Time	B. S.	H. I.	F. S.	ELEV.	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
							30.1				
1	R.Y.	11:13 1013		29.0 29.0	29.4		4.5			24.9	
2	R			27.9 28.5	28.3					23.8	
3	Y.			26.8 26.9	27.4					22.9	
4	R.Y.	11:20 1020		25.9 26.2	26.2		4.4			21.8	
5	R.			24.9 24.9	25.3					20.9	Very soft bottom
6	Y.			23.8 23.9	24.2					19.8	
7	R.Y.	11:27 1027		22.7 22.7	23.1		4.4			18.7	
8	R			21.5 21.7	21.9					17.5	
9.	Y.			20.3 20.2	20.8					16.4	
10.	R.Y.	11:31 1031		19.1 19.0	19.5		4.3			15.2	
11.	R.			18.0 18.1	18.3					14.0	
12.	Y.			16.9 16.9	17.3					13.0	
13.	R.Y.	11:33 1033		15.7 15.3	16.1		4.3			11.8	
14.	R.			14.4 14.0	14.7					10.4	
15.	Y.			13.0 12.9	13.3					9.0	
16.	R.Y.	11:35 1035		11.9 11.9	12.2		4.3			7.9	
17.	R.			10.9 10.9	11.2					6.9	
18.	Y.			9.9 8.9	10.2					5.9	Rocks on bottom
19.	R.Y.	11:37 1037		7.9 7.9	8.2		4.3			3.9	
20	R.			6.9	7.2					2.9	

over

Profile Notes Red. Plotted Job No. Division No. Y
No. Date 8-9-51 Date Survey of Beach Erosion Study
X-Sec. Notes Chkd T.M. Checked Survey by Notes Date 7-18-51
No. Date 8-20-51 Date Map No. Indexed C. Johnson

Notes Red. Lew. Plotted T.M.I. Profile
Date 8-9-51 Date 8-24-51 No.
Notes Chkd T.M.I. Checked X-Sec.
Date 8-20-51 Date

Boat
6+00 N
℄ groin

#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
21	Y	11 39 / 1039	6.9 / 5.9	6.2	4.3	1.9	

STATION B.S. H.T. F. ELEV.

76L298 307 4-

LOS ANG

726 Los A

...S OR CHANGES
...BE MADE OR
...WITH DATE AND
...KING CHANGE