Notes Ck'd by	Survey of Beach Erosion Studies
Map No.	W. O. 8412 Tape No. ✓ St'd. ✓ °F
Office Work	Surveyed by Blanchard
Checked	Notes F.H.B. Date 6-27-51
Date	Indexed A. C. Johnson 7-5-51

F.B. 1294 Pg. 5

BEACH EROSION STUDIES

J.N. 8412

MALAGA BAY TO THE BREAKWATER NORTH OF REDONDO BEACH & FROM POINT DUME TO VENTURA COUNTY LINE

REF.

PARTY

BLANCHARD
ENGLISH
STANGLAND
~~MANALDO~~
NATAPOFF
VOLLNAGLE
ANDERSON
FASTER
SONNENSCHEIN
SUTTER
MALDONADO

LOS

7 95 247 2-51

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. 1294 PG. 5

Profile No. | Notes Red. | Plotted | Job No. 8412 | Division No. | F. B. 1294 Pg. 7
X-Sec. No. | Notes Chkd. | Checked | Survey of BEACH EROSION STUDIES | Survey by | Notes | Date 6-22-51
Date | Date | Map No. | Indexed | Johnson | Date 7-5-51

J.N. 8412

BEACH EROSION STUDIES

TORRANCE BEACH

CROSS-SECTIONS

STA. 428+19 FROM TO (SOUTH OF A5-28)

STA.

JUNE 22 1951

STATION	B.S.	H.I.	F.S.	ELEV.
				C.V. CRUMLEY J.N. DOUGHERTY W.D. BAY H.J. ROBBINS R.P. EVANS.

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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764.298 307 4-50

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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133

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
428+19	5.3	13.9		8.55	FLAT ROCK - Page	
10' RT			1.7	12.2	BREAK	(478°-21') (S.ONS-29)
15 "			1.5	12.4	Bot. Bank	
20' LT			8.6	5.3	BRK - Begin Sand	
66 "			10.9	3.0	Fl - SAND	
T.P.	3.8	5.8	11.9	2.0	T.P.	
120' "			4.9	0.9	FLOOR of ocean	
148 "			5.3	0.5	" "	
184 "			6.8	-1.0	" "	
234 "			8.7	-2.9	" "	
284 "			9.5	-3.7	" "	
350 "			11.1	-5.3	" "	
410 "			12.3	-6.5	" "	

Shore 428+19

Profile
Plotted T.M.I. No.
Date 7-24-51
X-Sec.
Checked
Date 7-12-51
No.

Job No. 8412 Division No.
Notes Red.
Date
Notes Chkd T.M.I.
Date 7-12-51

V.S. 1294 Pg. 8
Survey of BEACH EROSION STUDIES
Survey by C.V. CRUMLEY Notes C.V.C.
Indexed E. C. Johnson Date 6-22-51

FORM 307 10M 10-48

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
428+19	423+19	1	R+Y	8:59	101°-45'	
		2	R		100°-17'	
		3	Y		101°-41'	
		4	R+Y	9:09	101°-13'	
		5	R		101°-41'	
		6	Y		101°-54'	
		7	R+Y	9:13	101°-30'	
		8	R		101°-36'	
		9	Y		101°-28'	
		10	R+Y	9:18	101°-33'	
		11	R		101°-39'	
		12	Y		98°-49'	
		13	R+Y	9:23.5	98°-05'	
		14	R		100°-53'	
		15	Y		99°-18'	
		16	R+Y	9:28	102°-20'	
		17	R		103°-01'	
		18	Y		103°-25'	

428+19
RANGE

Profile Notes Red ____ Plotted T.M.L. Job No. 8412 Division No. V F.B. 1294 Pg. 9
No. ____ Date ____ Date 7-27-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by E. Blanchard Notes J.M.M. Date 6-25-51
No. ____ Date ____ Date ____ Map No. ____ Indexed 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	
423+19	428+19	1	R+Y	9:49	78°26'		
		2	R		78°07'		
		3	Y		77°19'		
		4	R+Y	9:54	77°06'		
		5	R		78°02'		
		6	Y		77°35'		
		7	R+Y	10:03	77°43'		
		8	R		77°03'		
		9	Y		77°03'		
		10	R+Y	10:07	78°11'		
		11	R		78°20'		
		12	Y		78°09'		
		13	R+Y	10:10.5	77°44'		
		14	R		78°09'		
		15	Y		78°24'		
		16	R+Y	10:14.5	79°53'		
		17	R		80°07'		

423+19 RANGE

F.B. 1294 PG. 10 | Job No. 8412 | Division No. V | Notes Red. | Plotted T.M.L. | Profile
Survey of Beach Erosion | Date | Date 7-27-51 | No. | X-Sec.
Survey by E.H. Blanchard | Notes J. Maldonado | Notes Chkd. | Checked | No.
Indexed E. C. Johnson | Date 6-25-51 | Date | Date

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Profile Notes Red.____ Plotted____ Job No. 8412 Division No. V F. B. 12 94 Pg. 71
No.____ Date____ Date____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd.____ Checked____ Survey by EHB Notes G.E.J. Date 6/25/51
No.____ Date____ Date____ Map No.____ Checked Johnson Date____

STATION Inst. At	STATION Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.		Remarks
428+19	423+19	1	R-Y	9:49 AM	84°	11'	
"	"	2	R		83°	17'	
		3	Y		83	15'	
		4	R-Y	9:54 "	82	21'	
		5	R		79'	34'	
		6	Y		78	45'	
		7	R-Y	10:03 "	74°	47'	
		8	R		73°	33'	
		9	Y		71	38'	
		10	R-Y	10:07 "	68	36'	
		11	R				Missed.
		12	Y		64°	25'	
		13	R-Y	10:10 "	62°	46'	
		14	R		57°	35'	
		15	Y		54	55'	
		16	R-Y	10:15	48°	57	
		17	R		39°	03'	

CUT-IN
423+19

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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F. B. 1294 Pg. 12 | Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion studies Date Date No.
Survey by F.H.B. Notes G.E.E. Notes Chkd. Checked X-Sec.
Indexed H. C. Johnson Date 6/25/47 Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.		
423+19	428+19	1	RY	8:59 AM.	61°	45'	
		2	R	"	62°	26	
		3	Y	"	61°	15'	
		4	RY	9:09 "	59°	45	
		5	R	"	58°	44'	
		6	Y	"	57	20'	
		7	RY	9:13 "	56	33	
		8	R	"	55°	34'	
		9	Y	"	53°	54'	
		10	RY	9:18 "	52°	50'	
		11	R	"	52°	00'	
		12	Y	"	51°	18'	
		13	RY	9:23 "	50°	04	
		14	R	"	45°	41'	
		15	Y	"	44°	04	
		16	RY	9:28 "	38°	18'	
		17	R	"	35°	18'	
		18	Y	"	30°	13'	

Cut-in. 428+19

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.

428+19

Do not extend notes this side of this line.

STATION		S. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks
1	R&Y	8.59= 7.59-S.	27.9 26.8	27.2	0.9	26.3	✓	
2	R		26.1 25.1	25.4		24.5	✓	
3	Y		24.8 23.9	24.2		23.3	✓	
4	R&Y	9.09= 8.09-S	23.5 22.8	23.0	0.9	22.1	✓	
5	R		22.7 21.5	21.9		21.0	✓	
6	Y		21.0 20.2	20.5		19.6	✓	
7	R&Y	9.13= 8.13-S.	20.0 19.1	19.4	0.9	18.5	✓	
8	R		18.7 17.5	17.9		17.0	✓	
9	Y		16.9 16.0	16.3		15.4	✓	
10	R&Y	9.18= 8.18-S.	15.6 14.5	14.9	0.9	14.0	✓	
11	R		14.2 13.3	13.6		12.7	✓	
12	Y		13.0 12.0	12.3		11.4	✓	
13	R&Y	9.24= 8.24-S.	12.0 11.0	11.3	0.9	10.4	✓	
14	R		10.5 9.7	10.0		9.1	✓	
15	Y		9.1 8.2	8.5		7.6	✓	
16	R&Y	9.28= 8.28-S.	8.1 7.2	7.5		6.6	✓	
17	R		7.5 6.0	6.5	0.9	5.6	✓	
18	Y		7.0 5.0	5.7		4.8	✓	

BOAT
428+19
BOAT
428+19

Profile Notes Red LBW Plotted TMW Job No. Division No.
No. Date 7-27-51 Date 7-27-51 Survey of
X-Sec. Notes Chkd. TML Checked Survey by Notes Date 6-25
No. Date 7-13-51 Date Map No. Indexed Johnson Date

F. B. 1294 Pg. 13

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.

423+19'

Do not extend notes this side of this line.

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R&Y	9 49 = 8.49-S.	28.7 27.5	27.9	1.0	26.9	
2	R		27.2 26.2	26.5		25.5	
3	Y		25.9 24.9	25.2		24.2	
4	R&Y	9 54 = 8.54-S.	25.0 23.7	24.1	1.0	23.1	
5	R		23.0 22.1	22.4		21.4	
6	Y		22.5 20.8	21.4		20.4	
7	R&Y	10 03 = 9.03-S.	20.8 19.1	19.7	1.1	18.6	
8	R		19.0 17.9	18.3		17.2	
9	Y		17.5 16.5	16.8		15.7	
10	R&Y	10 07 = 9.07-S.	15.5 14.7	15.0	1.1	13.9	
11	R		14.2 13.6	13.8		12.7	
12	Y		13.1 12.2	12.5		11.4	
13	R&Y	10 10 = 9.10-S.	11.4 10.5	10.8	1.1	9.7	
14	R		10.7 9.5	9.9	1.1	8.8	
15	Y		9.1 8.2	8.5	1.2	7.3	
16	R&Y	10 15 = 9.15-S.	8.7 7.1	7.6	1.2	6.4	
17	R	10 17 = 9.17-S.	7.2 5.2	5.9	1.2	4.7	

BOAT 423+19

F. S. 1294 Pg. 14 Job No. Division No. Notes Red T.M.L. Plotted T.M.L. Date 7-13-51 Date 7-27-51 No. Profile

Survey of Notes Checked Date 7-27-51 No. X-Sec.

Survey by Date 6-25

Indexed R. C. Johnson

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.		
423+19	1.8	13.0		11.18	FLAT ROCK	Δ 78°-21'-(SDNS-29)
8' RT			1.1	11.9	BOT BLUFF	
23 LT			7.1	5.9	TOE - BEGIN SAND	BEACH.
70 "			9.3	3.7	BEACH SAND	
121 T.P.	4.6	8.6 (6.6)	11.0	2.0	T.P.	
168 LT			5.7	2.9 (3.3) (-1.9)	" "	
227 "			7.7	0.9	OCEAN FLOOR.	
279 "			9.1	-3.5 (-3.5)	" "	
316 "			10.1	-4.5 (-3.5)	" "	
345 "			10.8	-2.2 (-4.2)	" "	
377 "			11.5	-2.9	" "	

423+19
Inshore Profile

Profile Notes Red. Plotted T.M.L. Job No. 8412 Division No. 3 F. B. 1294 Pg. 15
No. Date Date 7-24-57 Survey of BEACH EROSION STUDIES (TORRANCE BEACH)
M.Sec. Notes Chkd T.M.L. Checked Survey by G.K. CRAWLEY Notes G.K.C. Date 6-22-57
No. Date 7-12-57 Date Map No. Indexed JOHNSON Date

F.B. 1294 Pg. 16 | 4 Job No. 8412 Division No. Notes Red. Plotted 7-24-51 Profile

Survey of BEACH EROSION STUDIES (ORANGE Co) Date Date 7-24-51 No. X-Sec.

Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. J.M.J. Checked Date No.

Indexed R. C. Johnson Date 6-22-51 Date

76L398 307 4-50

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STATION	B. S.	H. I.	F. S.	ELEV.		
418+19	4.5	12.0 ✓		7.46 ✓	1/2 BRK ON Beach	(90°)
8' RT.			3.5	8.5	TOE BLUFF	
36' LT.			7.4	4.6	BEACH	
T.P. 86	"	4.4	6.1	9.9	2.1 T.P. ON Beach	
142	"		5.1	10.2	BRK ON "	
222	"		7.9	-1.8	FLOUR of ocean	
264	"		9.4	-3.3	"	"
288	"		10.1	-3.9	"	"
315	"		10.5	-4.3	"	"
346	"		12.3	-6.2	"	"

Share 418+19

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
418+19	408+19	1	R+Y	10:43	90°-02'	
		2	R		90°-02'	
		3	Y		90°-30'	
		4	R+Y	10:56	90°-53'	
		5	R		90°-47'	
		6	Y		90°-58'	
		7	R+Y	11:03	90°-00'	
		8	R		90°-49'	
		9	Y		90°-21'	
		10	R+Y	11:07	90°-33'	
		11	R		90°-04'	
		12	Y		90°-00'	
		13	R+Y	11:12	90°-02'	
		14	R		90°-10'	
		15	Y		90°-06'	
		16	R+Y	11:16.5	89°-15'	
		17	R		89°-29'	
		18	Y		90°-27'	

418+19
RANGE

Profile No. ____ Notes Red. ____ Plotted T.M.L. Job No. 8412 Division No. V
Date ____ Date 7-27-51 Survey of Beach Erosion
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by E. Blanchard Notes J.M.M. Date 6-25-51
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1294 Pg. 17

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.

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F.B. 1244 PG. 18

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

Survey of _____ Date _____ No. _____

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

Indexed _____ Date _____ Date _____ Date _____ No.

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

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	

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____ F. B. 12 94 Pg. 17

No.____ Date____ Date____ Survey of Beach Erosion Studies

X-Sec. Notes Chkd.____ Checked____ Survey by F.H.B. Notes G.E.E. Date 6/26/57

No.____ Date____ Map No.____ Redrafted Robinson 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.

F. B. 1294 Pg. 20 | Job No. 8412 Division No. Y | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | Date | No.
Survey by EHB | Notes GF Easter | Notes Chkd. | Checked | X-Sec.
Indexed R. C. Johnson | Date 6/25/51 | Date | Date | No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
408+19	418+19	1	R-Y	10:43 AM	57°	03'	
"	"	2	R		56°	07'	
"	"	3	Y		51°	52'	
"	"	4	R-Y	10:56 "	47°	57'	
"	"	5	R		46°	40'	
"	"	6	Y		45°	23'	
"	"	7	R-Y	11:03	43°	50'	
"	"	8	R		42°	32'	
"	"	9	Y		40°	23'	
"	"	10	R-Y	11:07 "	38°	35'	
"	"	11	R		35	34'	
"	"	12	Y		34	38'	
"	"	13	R-Y	11:12 "	33°	23'	
"	"	14	R		32°	11'	
"	"	15	Y		28°	20'	
"	"	16	R-Y	11:17	24°	36'	
"	"	~~18~~ 17	R		20°	43'	
"	"	~~19~~ 18	Y		17°	56'	

CUT-IN
418+19

F. B. 1294 PG. 21

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

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

A. G. Johnson

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PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

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

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.

418+19

STATION #	Color	B. S. Time	Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	RY.	10:43 = 9.43-S	28.5 27.4	27.8	1.4	26.4	
2	R.		27.0 26.1	26.4	1.4	25.0	
3	Y.		25.7 24.7	25.0	1.5	23.5	
4	RY.	10:56 = 9.56-S	23.9 23.0	23.3	1.6	21.7	
5	R.		22.9 21.9	22.2	1.6	20.6	
6	Y.		21.3 20.4	20.7	1.7	19.0	
7	RY.	11:03 = 10.03-S	19.9 18.7	19.1	1.7	17.4	
8	R.		17.9 17.1	17.4		15.7	
9	Y.		17.0 16.0	16.3		14.6	
10	R.Y.	11:07 = 10.07-S.	15.9 14.8	15.2		13.5	
11	R.		14.8 13.8	14.1	1.7	12.4	
12	Y.		13.0 11.9	12.3	1.8	10.5	
13	RY.	11:11 = 10.11-S.	12.0 11.0	11.3	1.8	9.5	
14	R		11.4 10.1	10.5	1.8	8.7	
15	Y		11.0 9.0	9.7	1.8	7.9	
16	RY.	11:16 = 10.16-S.	9.0 7.7	8.1	1.9	6.2	
17	R.		7.5 6.5	6.8	1.9	4.9	
18	Y		6.8 5.7	6.1	1.9	4.2	

BOAT 418+19

F.B. 1294 Pg. 22
Job No. 8412 Division No. V Notes Red. L.C.W. Plotted T.M.I. Profile
Survey of Beach Erosion Studies Date Date 7-27-51 No.
Survey by F.H.B. Notes V. Anderson Notes Chkd T.M.I. Checked X-Sec.
Indexed A. C. Johnson Date 6/25/51 Date 7-13-51 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.

100'

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
413+19	4.9	140		9.12	1X2 ON Beach	
23' RT			1.2	128	TOE BLUFF	
30 LT			8.1	59	Beach	
70 " T.P.	4.3	62	12.1	1.9	T.P. — TOE SL.	
100' "			4.7	15	Beach	
170 "			6.0	02	"	
220 "			7.8	-16	ocean	FLOOR
309 "			9.6	-34	"	"
350 "			10.4	-42	"	"

413+19
Inshore Profile

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. 5 F.B. 1294 PG. 23
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (TORRANCE BEACH)
X-Sec. Notes Chkd. T.M.I. Checked ____ Survey by C.V. CRUMLEY Notes C.V.C. Date 6-23-57
No. ____ Date 7-12-57 Date ____ Map No. ____ Indexed C. Johnson 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.	
408+19	12.00	21.5		9.47	1X2 ON Beach
37 RT			7.9	13.6	TOP SL. IN DRAW
67 "			2.5	19.0	BRK
78 "			0.7	20.8	BRK
T.P.	2.6	12.1	12.00	9.5	T.P.
36' LT			5.9	6.2	Beach
77 " T.P.	5.8	7.0	10.9	1.2	T.P. - BRK
81 "			6.2	.8	BRK
117 "			5.6	1.4	"
164 "			6.6	0.4	ocean FLOOR
210 "			7.9	-0.9	" "
225 "			9.1	-2.1	" "
248 "			9.7	-2.7	" "
300 "			9.8	-2.8	" "
CROSS-SECTIONS RETAKEN 6-27-51 @ 10:50 A.M.					
408+19	0.6	10.1		9.47	1X2 ON Beach
36' LT			4.0	6.1	BRK. ON "
T.P. 77 "	3.0	5.4	7.7	2.4	T.P " "
165 "			5.2	0.2	OCEAN FLOOR
237 "			7.3	-1.9	" "
285 "			7.8	-2.4	" "
328 "			9.2	-3.8	" "
344 "			9.5	-4.1	" "

Shore 408+19

F.B. 1294 Pg. 24 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES (TORRANCE BCH) Date Date No. X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. TM.L. Checked
Indexed K. C. JOHNSON Date 6-22-51 Date 7-13-57 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
413+19	418+19	1	R+Y	7:09	91°-34'	
		2	R		89°-22'	
		3	Y		91°-01'	
		4	R+Y	7:15	90°-25'	
		5	R		91°-52'	
		6	Y		89°-27'	
		7	R+Y	7:27	90°-02'	
		8	R		91°-37'	
		9	Y		90°-15'	
		10	R+Y	7:33	89°-16'	
		11	R		89°-49'	
		12	Y		90°-27'	
		13	R+Y	7:38	90°-04'	
		14	R		88°-39'	
		15	Y		90°-21'	
		16	R+Y	7:41.5	89°-11'	
		17	R		90°-35'	
		18	Y	7:46	91-00	

RANGE
413+19

Profile
No. ____ Date ____ Notes Red ____ Plotted T.M.L. Job No. 8412 Division No. V
X-Sec. Date ____ Date 7-27-51 Survey of Beach Erosion Studies
No. ____ Date ____ Notes Chkd ____ Checked 7-27- Survey by E.H.B. Notes J.M. Date 6-26-51
Map No. ____ Indexed Johnson Date ____

F.B. 1294 Pg. 25

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	
408+19	413+19	1	R+Y	8:08	89° - 48'		
		2	R		89° - 37'		
		3	Y		90° - 30'		
		4	R+Y	8:12	90° - 37'		
		5	R		90° - 21'		
		6	Y		89° - 40'		
		7	R+Y	8:16.5	89° - 32'		
		8	R		88° - 41'		
		9	Y		89° - 14'		
		10	R+Y	8:21	90° - 24'		
		11	R		90° - 03'		
		12	Y		90° - 47'		
		13	R+Y	8:24	90° - 15'		
		14	R		89° - 25'		
		15	Y		90° - 19'		
		16	R+Y	8:27	89° - 34'		
		17	R		90° - 10'		
		18	Y	8:29	89° - 37'		

RANGE 408+19

F.B. 1994 PG. 26

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

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

Survey by E.H. Blanchard Notes J. Maldonado Notes Chkd ___ Checked ___ No. ___

Indexed R. C. Johnson Date 6-26-51 Date ___ Date ___

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
418+19	413+19	1	R&Y	7:09	70°12'		
		2	R		68 18		
		3	Y		67 18		
		4	R&Y	7:15	65 09		
		5	R		62 46		
		6	Y		63 33		
		7	R&Y	7:265	61 29		
		8	R		58 44		
		9	Y		58 17		
		10	R&Y	7:33	56 34		
		11	R		55 09		
		12	Y		53°00		
		13	R&Y	7:38	50°57		
		14	R		49°45		
		15	Y		46°16		
		16	R&Y	7:415	43°44		
		17	R		37°53		
		18	Y	7:46	35°40	Time of Last shot	

Cut In
413+19

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V
No. ____ Date ____ Date ____ Survey of Beach & Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 6-26-51
No. ____ Date ____ Date ____ Map No. ____ Rod Adjustment Date ____

F. B. 1294 PG. 27

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	
418+19 408+19	1	R&Y	8:075	5[illegible]°35'		
	2	R		5[illegible]°28'		
	3	Y		50°21'		
	4	R&Y	8:12	48°33'		
	5	R		[illegible]		
	6	Y		4[illegible]°12'		
	7	R&Y	8:16	4[illegible]°31'		
	8	R		4[illegible]°22'		
	9	Y		33°22'		
	10	R&Y	8:20	[illegible]		
	11	R		3[illegible]°47'		
	12	Y		[illegible]		
	13	R&Y	8:24	30°58'		
	14	R		2[illegible]°57'		
	15	Y		26°57'		
	16	R&Y	8:27	25°19'		
	17	R		21°13'		
	18	Y	8:29	19°40'	Last shot	

CUT 1H
408+19

F. B. 1294 PG. 28 Job No. 8412 Division No. V Notes Red. Plotted T.M.J. Profile
Survey of Beach Erosion Studies Date 7-27-51 No.
Survey by R.H.B. Notes M.S. Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson 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 413+19		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			29.2				
1	R.Y	7:09 = 6.09-S.	26.9 27.5	27.7	2.5	25.2	
2.	R.		25.5 26.7	26.2	2.5	23.7	
3.	Y.		24.5 25.3	25.2	2.4	22.8	
4.	R.Y.	7:15 = 6.15-S.	23.2 23.6	23.9	2.4	21.5	
5	R.		21.9 22.2	22.5	2.4	20.1	
6.	Y.		20.2 20.8	20.9	2.3	18.6	
7.	R.Y.	7:27 = 6.27-S.	19.0 19.2	19.6 ~~19.8~~	2.3	17.3	
8.	R.		17.5 17.8	18.1 ~~18.4~~	2.3	15.8	
9.	Y.		16.4 17.2	16.9	2.3	14.6	
10.	R.Y.	7:33 = 6.33-S.	15.1 15.3	15.8	2.3	13.5	
11.	R.		13.5 13.9	14.1	2.3	11.8	
12.	Y.		12.4 12.8	12.9	2.2	10.7	
13.	R.Y.	7:38 = 6.38-S.	11.4 12.1	11.9	2.2	9.7	
14.	R.		10.4 11.2	11.0	2.2	8.8	
15.	Y		9.4 9.8	10.0	2.2	7.8	
16.	R.Y.	7:42 6.42-S.	8.2 9.0	8.7	2.2	6.5	
17.	R.		6.9 8.9	7.6	2.1	5.5	
18.	Y.	7:47 = 6.47-S.	5.9	6.9	2.1	4.8	

BOAT
413+19

Profile Notes Red Lewis Plotted ____ Job No. 8412 Division No. V F.B. 1294 Pg. 29
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd T. M. L. Checked ____ Survey by E.H.B. Notes Vellingle Date 6-26-57
No. ____ Date 7-13-57 Date ____ Map No. ____ Indexed Date ____

76L298 307 4-50

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

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

Do not extend notes this side of this line.

F. B. 1294 PG. 30 Job No. 8412 Division No. V Notes Red. LCW Plotted ____ Profile ____
Survey of Beach Erosion Studies Date ____ Date ____ No. ____
Survey by E.H.B. Notes E.R. Vollnagle Notes Chkd. T.M.L. Checked ____ X-Sec. ____
Indexed C. Johnson Date 6-26-51 Date 7-13-51 Date ____ No. ____

STATION 408+19 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
			27.8				
1.	R.Y.	8:08 = 7.08-S.	26.5 26.8	26.9	2.0	24.9	
2.	R.		25.5 26.2	25.9	2.0	23.9	
3.	Y.		24.4 25.0	25.0	1.9	23.1	
4.	R.Y.	8:13 = 7.13-S.	23.0 23.8	23.7	1.9	21.8	
5.	R.		21.8 22.6	22.5	1.9	20.6	
6.	Y.		20.7 21.5	21.3	1.9	19.4	
7.	R.Y.	8:17 = 7.17-S.	19.6 20.5	20.2	1.9	18.3	
8.	R.		18.3 18.0	19.0	1.9	17.1	
9.	Y.		16.7 17.0	17.1	1.9	15.2	
10.	R.Y.	8:21 = 7.21-S.	15.4 16.0	15.9	1.9	14.0	
11.	R.		14.1 14.9	14.7	1.9	12.8	
12.	Y.		12.9 13.8	13.6	1.8	11.8	
13.	R.Y.	8:25 = 7.25-S.	11.8 12.6	12.5	1.8	10.7	
14.	R.		10.8 10.9	11.4	1.8	9.6	
15.	Y.		9.3 10.1	9.8	1.8	8.0	
16.	R.Y.	8:28 = 7.28-S.	8.4 9.0	9.0	1.8	7.2	
17.	R.		7.1 8.0	7.7	1.8	5.9	
18.	Y.	8:30 = 7.30-S.	5.9	6.6	1.8	4.8	

BOAT 408+19

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.		
403+19	5.9	160		100.7	1X2 on Beach	
34' RT			2.0	140	Toe Slope	
10' LT			6.4	96	Beach	
40 "			8.7	73	"	
58 T.P.	5.2	96	11.6	44 T.P.	"	Water
85 LT.			9.0	06	BREAK	
129 "			9.2	04		Ocean Floor
163 "			10.2	-0.6		" "
194 "			11.1	-1.5		" "
234 "			12.0	-2.4		" "
CROSS-SECTIONS RETAKEN - 6-27-51 - 11:15 A.M.						
403+19	1.5	11.6		10.1	1X2 on BEACH	
40' Lt			5.8	5.8	BRK on	Beach
58' T.P.	1.4	5.4	7.6	4.0 T.P. -	" "	"
130' LT.			4.9	0.5	OCEAN	FLOOR -
198 "			6.3	-0.9	"	"
240 "			10.7	-5.3	"	"

403+19
Inshore Profile

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. 7 P.B. 1294 Pg. 31
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES TORRANCE BCH
X-Sec. Notes Chkd. T.M.I. Checked ____ Survey by C.V.C. Notes C.V.C. Date 6-22-51
No. ____ Date 7-12-51 Date ____ Map No. ____ Indexed T.M.I. Date ____

76L298 507 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. 1294 Pg. 32 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of BEACH EROSION STUDIES (TORRANCE) | Date 6-25-51 | No. | X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. | Notes Chkd. T.M.J. Checked
Indexed A. C. Johnson Date 6-25-51 | Date 7-12-51 Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
398+19	5.4	16.6'		11.20	1X2 page	
35.0 RT			1.4	15.2	Top Slope	
40.0 "			2.2	14.4	S.H. 4	
16.0 LT			6.4	10.2	Ditch	
29. "			8.3	8.3	"	
59. T.P.	1.3	6.3	11.6	-5.3	T.P.	
100 LT			5.0	1.3	Water	
147 "			6.6	-0.3		ocean FLOOR
195 "			7.8	-1.5		" "
240 "			8.5	-2.2		
281 "			9.4	-3.1		TAPE BROKE

Shore
398+19

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
403+19	408+19	1	R+Y	8:52	89°-06'	
		2	R		88°-54'	
		3	Y		89-15	
		4	R+Y	8:55	89°-58'	
		5	R		89°-41'	
		6	Y		88°-13'	
		7	R+Y	9:00	88°-09'	
		8	R		88°-03'	
		9	Y		88°-55'	
		10	R+Y	9:06.5	88°-16'	
		11	R		88°-02'	
		12	Y		87°-31'	
		13	R+Y	9:10	87°-57'	
		14	R		88°-17'	
		15	Y		88°-07'	
		16	R+Y	9:14	88°-39'	
		17	R	9:15	87°-37'	

RANGE
403+19

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. ____ Date ____ Survey of Beach Erosion Studies
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by E.H.B. Notes J.M.M. Date 6-26-51
Map No. ____ Date ____ Indexed ____ Date ____

F.B. 1794 Pg. 83

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.

F.B. 1294 PG. 34 | Job No. 8412 Division No. V Notes Red Plotted Profile No.
Survey of Beach Erosion Studies Date Date X-Sec. No.
Survey by L.H. Blanchard Notes J.M. Maldonado Notes Chkd. Checked
Indexed E. C. Johnson Date 6-24-51 Date Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
398+19	413+19	1	R-Y	9:31	88° - 8'	.	
		2	R		88° - 16'	.	
		3	Y		86° - 40'	.	
		4	R+Y	9:35	89° - 22'	.	
		5	R		89° - 32'	.	
		6	Y		89° - 37'	.	
		7	R+Y	9:38	88° - 46'	.	
		8	R		89° - 52'	.	
		9	Y		89° - 09'	.	
		10	R+Y	9:42	89° - 18'	.	
		11	R		89° - 12'	.	
		12	Y		88° - 54'	.	
		13	R+Y	9:46	88° - 49'	.	
		14	R		90° - 1'	.	
		15	Y		88° - 47'	.	
		16	R+Y	9:48.5	88° - 18'	.	

RANGE 398+19

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 Notes Red. Plotted Job No. 8412 Division No. V F. B. 1244 Pg. 35
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F-1-B Notes M.J. Date 6-26-51
No. Date Date Map No. Index Date

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
408+12	403+19	1	R & Y	8:52	69°05'.	
		2	R		68°07'.	
		3	Y		67°25'.	
		4	R & Y	8:55	65°32'.	
		5	R		64°21'.	
		6	Y		63°25'.	
		7	R & Y	9:00	60°43'.	
		8	R		57°57'.	
		9	Y		57°03'.	
		10	R & Y	9:06	56°07'.	
		11	R		54°37'.	
		12	Y		52°36'.	
		13	R & Y	9:10	50°00'.	
		14	R		46°40'.	
		15	Y		42°44'.	
		16	R & Y	9:14	40°00'.	
		17	R	9:15	37°27'.	

Cut in 403+19

F. B. 1294 Pg. 36 | Job No. 8412 Division No. V | Notes Red. | Plotted | Profile
Survey of Beach Erosion Studies | Date | No.
Survey by E.H.B. | Notes Chkd. | Checked | X-Sec.
Notes M.S. | Date | Date | No.
Indexed K. C. Johnson | Date | Date

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.		F. S.	ELEV.		
Inst. At	Sight On	#	Color		Time	Hor. Ang.	Remarks	
408+19	398+19	1	R & Y					
		2	R		9:32	48° 2'		
		3	Y			4[illegible]° [illegible]5'		
		4	R & Y		9:35	4[illegible]° 49'		
		5	R			4[illegible]° [illegible]9'		
		6	Y			4[illegible]° [illegible]0'		
		7	R & Y		9:38	3[illegible]° [illegible]5'		
		8	R			3[illegible]° 2'		
		9	Y			3[illegible]° 2'		
		10	R & Y		9:42	3[illegible]° 4'		
		11	R			3[illegible]° 3'		
		12	Y			2[illegible]° [illegible]1'		
		13	R & Y		9:46	2[illegible]° 2'		
		14	R			2[illegible]° 3[illegible]'		
		15	Y			2[illegible]° [illegible]8'		
		16	R & Y		9:49	[illegible]° [illegible]3'		

CUT IN 398+19

76L298 307 4-58

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 Notes Red. Blue Plotted Job No. 8442 Division No. V F. B. 1294 P. 37
No. Date Date Survey of Beach Erosion Studies
Misc. Notes Chkd. T.M.L. Checked Survey by E.M.S. Notes Hillmyer Date 6-26-58
No. Date 7-13-57 Date Map No. Checked J. Edwards Date

STATION 403+19

#	Color	Time	Rod Depth	Bottom	Tide	Adj. Depth	Remarks
			27.5				
1.	R.Y.	8:52 = 7.52 -5.	26.1 26.5	26.6	1.6	25.0	
2.	R.		25.0 25.1	25.5	1.6	23.9	
3.	Y.		23.8 24.1	24.2 ~~24.7~~	1.6	22.6	
4.	R.Y.	8:56 = 7.56 -5.	22.6 23.0	23.1	1.6	21.5	
5.	R.		21.4 22.1	21.9	1.6	20.3	
6.	Y.		20.3 20.4	20.9	1.6	19.3	
7.	R.Y.	9:01 = 8.01 -5.	19.0 19.7	19.5	1.6	17.9	
8.	R.		18.0 17.7	18.6	1.6	17.0	
9.	Y.		16.5 17.0	16.9 15.8	1.6	15.3	
10.	R.Y.	9:07 = 8.07 -5	15.2 15.3	~~16.0~~	1.6	14.2	
11.	R.		14.0 14.0	14.4	1.6	12.8	
12.	Y.		12.2 12.5	12.8	1.6	11.2	
13.	R.Y.	9:11 = 8.11 -5	11.0 11.5	11.5	1.5	10.0	
14.	R.		9.2 9.7	10.0	1.5	8.5	
15	Y.		7.9 8.8	8.5	1.5	7.0	
16.	R.Y.	9:15 = 8.15 -5	7.0 8.7	7.6	1.5	6.1	
17.	R.	9:16 = 8.16 -5	5.8	6.8	1.5	5.3	

B047
403+19

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 398+19 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
			27.9				
1.	R.Y.	9:32 = 8.32-S.	26.2 / 26.3	26.8	1.5	25.3	
2.	R.		24.8 / 25.0	25.3	1.5	23.8	
3.	Y.		23.4 / 24.0	23.9	1.5	22.4	
4.	R.Y.	9:35 = 8.35-S.	21.9 / 22.9	22.6	1.5	21.1	
5.	R.		20.8 / 21.0	21.5 ~~21.6~~	1.5	20.0	
6.	Y.		19.4 / 20.0	19.9	1.5	18.4	
7.	R.Y.	9:39 = 8.39-S.	18.0 / 18.5	18.7	1.5	17.2	
8.	R.		16.7 / 16.7	17.3	1.5	15.8	
9.	Y.		15.0 / 15.4	15.6	1.5	14.1	
10.	R.Y.	9:43 = 8.43-S.	13.4 / 14.0	14.1	1.5	12.6	
11.	R.		11.8 / 11.6	12.5	1.5	11.0	
12.	Y.		10.0 / 10.8	10.5	1.5	9.0	
13.	R.Y.	9:47 = 8.47-S.	8.8 / 9.4	9.5 ~~9.7~~	1.5	8.0	
14.	R.		7.8 / 7.7	8.3	1.5	6.8	
15.	Y.		6.3 / 7.8	6.8	1.5	5.3	
16.	R.Y.	9:50 = 8.50-S.	5.5	6.3	1.5	4.8	

BOAT 398+19

F. B. 1294 No. 38
Job No. 8412 Division No. V Notes Red. Lear Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E.M.B. Notes E.R. Vollnagle Notes Chkd. T.M.L. Checked X-Sec.
Indexed K. C. Johnson Date 6-26-51 Date 7-13-51 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.

90

STATION	B. S.	H. I.	F. S.	ELEV.		
393+19	5.9	18.4		12.51	1/2 STK ON Beach	
18 RT			3.1	15.3	BRK.	
27 "			1.4	17.0	Toe SL.	
30' LT			9.2	9.2	BRK	
53 T.P. "	1.1	7.6	11.9	6.5	T.P. Beach	
100 LT			6.1	1.5	Water	
160 "			8.2	-0.6	Ocean FLOOR	
201 "			9.6	-2.0	"	"
260 "			10.3	-2.7	"	
315 "			11.9	-4.3	"	"

393+19
Inshore Profile

Profile Notes Red. Plotted Job No. 8412 Division No. 9 F.S. 1294 [illegible]
No. Date Date Survey of BEACH BRAZIAN STUDIES [illegible]
X-Sec. Notes Chkd. [illegible] Checked Survey by C.V.C. Notes C.V.C. Date 6-25-57
No. Date 7-12-57 Date Map No. 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.

104
90

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
(S-27) B.M. RM.# 2	1.8	18.9		17.106	B.M. RM. #2 - Elev 17.106 - C.S. MON.	
388+19.03			4.8	14.1	SAND OVER - 4x4 - (S-27) ∡ PT.	
18 RT			2.2	16.7	Toe SL.	
24 LT			6.2	12.7	BRK ON Beach	
57 T.P. "	0.7	7.9	11.7	7.2	T.P. "	
90 LT.			4.8	3.1	Water	
149 "			8.0	-0.1	Ocean FLOOR	
194 "			9.5	-1.6	" "	
244 "			10.2	-2.3	" "	
276			10.9	-3.5	" "	
298			11.6	-3.7	" "	

Shore 388+00

388+

F.B. 1294 Pg. 40 Job No. 8412 Division No. Notes Red Plotted Profile
Survey of BEACH EROSION STUDIES (TORRANCE) Date Date No. X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.M.I. Checked No.
Indexed A. C. Johnson Date 6-25-57 Date 7-12-57 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
393+19	398+19	1	R+Y	10:08.5	89°-21'	
		2	R		89°-10'	
		3	Y		90°-01'	
		4	R+Y	10:13	90°-01'	
		5	R		90°-06'	
		6	Y		89°-10'	
		7	R+Y	10:17	89°-27'	
		8	R		88°-47'	
		9	Y		89°-30'	
		10	R+Y	10:20.5	89°-35'	
		11	R		89°-25'	
		12	Y		89°-12'	
		13	R+Y	10:24	91°-42'	
		14	R		92°-10'	
		15	Y		90°-29'	
		16	R+Y	10:27.5	92°-32'	
		17	R		91°-34'	
		18	Y	10:30	92°-09'	

RANGE
393+19

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. Date ____ Survey of Brach Erosion Studies
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by E.H.B. Notes J.M.M. Date 6-26-51
Map No. ____ Date ____ Edited ____ Date ____

F.B. 1094 Pg. 41

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	
388+00	378+00	1	R+Y	6:48	89°-49'		
		2	R		88°-46'		
		3	Y		89°-19'		
		4	R+Y	6:55	89°-09'		
		5	R		89°-17'		
		6	Y		88-49'		
		7	R+Y	6:59	89°-04'		
		8	R		89°-53'		
		9	Y		89°-46'		
		10	R+Y	7:02.5	89°-17'		
		11	R		89°-01'		
		12	Y		88°-24'		
		13	R+Y	7:06	89°-38'		
		14	R		88°-44'		
		15	Y		89°-05'		
		16	R+Y	7:09	87°-51'		
		17	R		89°-13'		
		18	Y	7:14	89°-10'		

RANGE
388+00

F.B. 1794 PG. 42
Job No. 8412 Division No. V Notes Red ____ Plotted ____ Profile
Survey of Beach Erosion Studies Date ____ Date ____ No. ____
Survey by F.H. Blanchard Notes J. Maldonado Notes Chkd ____ Checked ____ X-Sec.
Indexed R. C. Johnson Date 6-27-51 Date ____ Date ____ No. ____

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
398+19	393+19	1	R & Y	10:08	67°22'		
		2	R		65°36'		
		3	Y		63°59'		
		4	R & Y	10:13	62°54'		
		5	R		60°27'		
		6	Y		59°05'		
		7	R & Y	10:17	57°12'		
		8	R		55°30'		
		9	Y		53°50'		
		10	R & Y	10:20	52°24'		
		11	R		50°30'		
		12	Y		48°56'		
		13	R & Y	10:24	46°08'		
		14	R		43°38'		
		15	Y		42°23'		
		16	R & Y	10 27	39°25'		
		17	R		37 56'		
		18	Y	1030	32 56'		

Cut 393+19

Profile No. _____ Notes Red _____ Plotted _____ Job No. 8412 Division No. V
X-Sec. No. _____ Date _____ Date _____ Survey of Beach Erosion Studies
Notes Chkd _____ Checked _____ Survey by F.H.B. Notes M. S. Date 6-26-51
Date _____ Date _____ Map No. _____ Date _____

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

F. B. 221 Pg. 44 | Job No. 8412 Division No. V Notes Red Plotted No. | Survey of Beach Erosion Studies Date 6-27-51 Date X-Sec. | Survey by FHB Notes Chkd Checked | Indexed E. C. Johnson Date June 27 1951 Date Profile No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks	
378+00	388+00	1	R & Y	6:49	49°02'	Started on June 27th	
		2	R		47°19'		
		3	Y		44°30'		
		4	R & Y	6:55	42°54'		
		5	R		41°08'		
		6	Y		39°34'		
		7	R & Y	6:59	38°07'		
		8	R		35°18'		
		9	Y		34°01'		
		10	R & Y	7:03	31°15'		
		11	R		30°25'		
		12	Y		28°45'		
		13	R & Y	7:06	26°10'		
		14	R		24°40'		
		15	Y		22°50'		
		16	R & Y	7:09	19°07'		
		17	R		17°43'		
		18	Y	7:15	16°27'		

Cut in 388+00

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 393+19		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			27.9				
1.	R.Y.	10:08= 9.08-S.	26.7 26.6	27.1	1.5	25.6	
2.	R.		25.1 25.5	25.6	1.5	24.1	
3.	Y.		24.0 24.9	24.5	1.5	23.0	
4.	R.Y.	10:13= 9.13-S.	23.0 23.0	23.6	1.5	22.1	
5.	R.		21.3 21.8	21.9	1.5	20.4	
6.	Y.		20.1 20.4	20.7	1.5	19.2	
7.	R.Y.	10:17= 9.17-S.	18.8 19.0	19.3	1.5	17.8	
8.	R.		17.6 18.1	18.1	1.5	16.6	
9.	Y.		16.0 16.9	16.7	1.5	15.2	
10.	R.Y.	10:20= 9.20-S.	14.9 16.0	15.6	1.5	14.1	
11.	R.		13.7 14.7	14.5	1.5	13.0	
12.	Y.		12.5 12.9	13.2	1.6	11.6	
13.	R.Y.	10:24= 9.24-S.	11.2 12.3	11.8	1.6	10.2	
14.	R.		10.1 11.5	10.8	1.6	9.2	
15.	Y.		9.0 10.0	9.8	1.6	8.2	
16.	R.Y.	10:27= 9.27-S.	8.0 9.8	8.7	1.6	7.1	
17.	R.		7.0 8.0	7.9	1.6	6.3	
18.	Y.	10:31= 9.31-S.	6.5	7.0	1.6	5.4	

Boat
393+19

Profile Notes Red Law Plotted _____ Job No. 8412 Division No. V F.B. 1294 Pg. 45
No. _____ Date _____ Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.L. Checked _____ Survey by E.H.B. Notes Wlingle Date 6-26-51
No. _____ Date 7-13-57 Date _____ Map No. [illegible] 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 388+00		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
			31.0				
1.	R.Y.	6:49= 5.49-S.	27.5 29.2	28.7	3.2	25.5	
2.	R.		26.3 27.5	27.3	3.2	24.1	
3.	Y.		25.3 26.1	26.0	3.2	22.8	
4.	R.Y.	6:55= 5.55-S.	24.2 25.5	25.0	3.2	21.8	
5.	R.		23.1 24.6	23.9	3.2	20.7	
6.	Y.		22.1 23.4	22.9	3.2	19.7	
7.	R.Y.	6:59= 5.59-S.	21.0 21.5	21.8	3.2	18.6	
8.	R.		19.2 20.2	20.0	3.2	16.8	
9.	Y.		18.0 19.0	18.7	3.2	15.5	
10.	R.Y.	7:03= 6.03-S.	16.9 17.7	17.6	3.2	14.4	
11.	R.		15.0 16.1	15.9	3.2	12.7	
12.	Y.		13.9 14.8	14.6	3.2	11.4	
13.	R.Y.	7:06= 6.06-S.	12.3 13.2	13.1	3.2	9.9	
14.	R.		11.1 12.3	11.8	3.2	8.6	
15.	Y.		9.5 9.1	10.4	3.2	7.2	
16.	R.Y.	7:09= 6.09-S.	7.9 8.0	8.3	3.2	5.1	
17.	R.		6.8 7.8	7.2	3.2	4.0	
18.	Y.	7:15= 6.15-S.	5.8	6.5	3.2	3.3	

BOAT 388+00

F. B. 1294 Pg. 46 Job No. 8412 Division No. V Notes Red. L.P.W. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E.H.B. Notes Vollnagle Notes Chkd. T.M.L. Checked X-Sec.
Indexed K. C. Johnson Date 6-27-51 Date 7-13-51 Date No.

76L298 307 4-50

178
60 238

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.

60
204

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
383+00	5.9	18.1		12.20	1X2 ON Beach	
15' RT			3.9	14.2	BRK.	
51 "			1.1	17.0	Toe SL.	
16' LT			7.9	10.2	BRK. ON Beach.	
T.P. 44 "	0.6	7.4	11.3	6.8	T.P. - BRK.	"
75 "			4.5	2.9	OCEAN	FLOOR
96 "			6.7	0.7	"	"
100 "			7.9	-0.5	"	"
134 "			7.9	-0.5	"	"
168			8.5	-1.1	"	"
204			9.3	-1.9	"	"
238			10.0	-2.6	"	"

IN SHORE PROFILE
383+00

Profile Notes Red _____ Plotted _____ Job No. 8412 Division No. [illegible]
No. _____ Date _____ Date _____ Survey of [illegible] Date [illegible]
Notes Chkd. [illegible] Checked _____ Survey by [illegible] Date [illegible]
No. _____ Date 7-13-51 Date _____ Map No. _____ Indexed [illegible] 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.

60

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
378+00	4.0	163		12 27	1X2 ON Beach	
17 RT			1.4	149	BRK	
50 "			6.6	157	Toe SL	
27 LT			6.5	78	BRK	
53 "			10.1	2	" "	
62 T.P.	2.6	75	11.4	49	T.P.	Water
97 LT			6.6	9	BRK	OCEAN FLOOR
120 "			8.1	6	"	" "
147 "			7.9	4	"	" "
177 "			9.7	2		" "
225 "			10.1	26		" "
238			10.4	29		" "

Shore 378+00

F. B. 1294 Pg. 48 12 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES (CLIFTON) Date Date No. X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd T.M.I. Checked No.
Indexed R. C. Johnson Date 6-27-51 Date 7-13-51 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.

Profile Notes Red____ Plotted____ Job No. 8412 Division No. V F.B. 1294 Pg. 49
No.____ Date____ Date____ Survey of Reach Extension Studies
X-Sec. Notes Chkd____ Checked____ Survey by F.H.R. Notes J.M. Date 6-27-51
No.____ Date____ Date____ Map No.____ Entered John Johnson Date____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
383+00	378+00	1	R+Y	7:25	90°-08'	
		2	R		90°-29'	
		3	Y		89°-51'	
		4	R+Y	7:30	89°-11'	
		5	R		88°-12'	
		6	Y		89°-06'	
		7	R+Y	7:37.5	89°-47'	
		8	R		89°-03'	
		9	Y		89°-52'	
		10	R+Y	7:40	89°-51'	
		11	R		89°-39'	
		12	Y		90°-19'	
		13	R+Y	7:44	89°-55'	
		14	R		90°-28'	
		15	Y		90°-09'	
		16	R+Y	7:48	89°-47'	
		17	R	7:49	90°-14'	

F RANGE
383+00

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.

F.B. 1711 PG. 50 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 6-27-51 Date Date No

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
378+00	383+00	1	R+Y	8:00	90° - 00'		
		2	R		90° - 01'		
		3	Y		90° - 01'		
		4	R+Y	8:03.5	90° - 00'		
		5	R		90° - 01'		
		6	Y		90° - 04'		
		7	R+Y	8:07.5	90° - 00'		
		8	R		90° - 00'		
		9	Y		90° - 03'		
		10	R+Y	8:10.5	90° - 05'		
		11	R		89° - 31'		
		12	Y		90° - 07'		
		13	R+Y	8:12	90° - 18'		
		14	R		90° - 01'		
		15	Y		90° - 30'		
		16	R+Y	8:15	90° - 35'		
		17	R		91° - 14'		
		1	Y	8:18	91° - 13'		

RANGE
378+00

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 Notes Red. Plotted Job No. 8412 Division No. V F. B. 1294 Pg. 51
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by FHB Notes M.S. Date 6-27-51
No. Date Date Map No. Inked Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
378+00	383+00	1	R & Y	7:26	62°20'.		
		2	R		61°21'.		
		3	Y		60°49'.		
		4	R & Y	7:30	59°48'.		
		5	R		59°09'.		
		6	Y		56°42'.		
		7	R & Y	7:38	54°45'.		
		8	R		53°37'.		
		9	Y		51°45'.		
		10	R & Y	7:41	50 05'.		
		11	R		47 40'.		
		12	Y		45°20'.		
		13	R & Y	7:45	40°46'.		
		14	R		38 05'.		
		15	Y		34°35'.		
		16	R & Y	7:48	32 46'.		
		17	R	7:50	27 55'.		

Cut in 383+00

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	
383+00	378+00	1	R&Y	8:00	63°32		
		2	R		6[illegible]°01		
		3	Y		6[illegible]°35		
		4	R&Y	8:04	5[illegible]°53		
		5	R		57°06		
		6	Y		55°48		
		7	R&Y	8:08	5[illegible]°18		
		8	R		5[illegible]°15		
		9	Y		5[illegible]°32		
		10	R&Y	8:11	5[illegible]°02		
		11	R		4[illegible]°07		
		12	Y		4[illegible]°36		
		13	R&Y	8:13	45°53		
		14	R		43°10		
		15	Y		4[illegible]°59		
		16	R&Y	8:15	37°[illegible]0		
		17	R		32°09		
		18	Y	8:18	29°50		

CUT IN
379+00

F. B. 1294 Pg. 52 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 6-27-51 Date No.
Survey by F. H. B. Notes M. S. Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson 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.

Profile Notes Red. Yours Plotted _____ Job No. 8418 Division No. V F.B. 1294 Pg. 53
No. _____ Date _____ Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.L. Checked _____ Survey by E.M. Burnett, Harry Date 6-27-57
No. _____ Date 7-13-57 Date _____ Map No. _____ Date _____

STATION 383+00		B. S.	H. I.	F. S.	ELEV.				
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth		Remarks	
			29.5						
1.	R.Y.	7:26 6.26 -5.	27.9 27.9	27.8	3.1	24.7	✓		
2.	R.		26.0 26.7	26.6	3.1	23.5	✓		
3.	Y.		24.9 25.7	25.5	3.1	22.4	✓		
4.	R.Y.	7:30 6.30 -5	23.7 24.6	24.4	3.1	21.3	✓		
5.	R.		22.5 22.9	23.2	3.1	20.1	✓		
6.	Y.		21.1 21.8	21.7	3.1	18.6	✓		
7.	R.Y.	7:39 6.39 -5.	20.0 20.0	20.6	3.1	17.5	✓		
8.	R.		18.0 19.1	18.7	3.1	15.6	✓		
9.	Y.		16.7 17.0	17.5	3.0	14.5	✓		
10.	R.Y.	7:41 6.41 -5	15.0 16.1	15.7	3.0	12.7	✓		
11.	R.		13.9 15.9	14.6	3.0	11.6	✓		
12.	Y.		12.5 13.6	13.6	3.0	10.6	✓		
13.	R.Y	7:45 6.45 -5.	10.5 12.2	11.5	3.0	8.5	✓		
14.	R.		9.5 10.8	10.4	3.0	7.4	✓		
15.	Y.		8.3 9.3	9.1	3.0	6.1	✓		
16.	R.Y.	7:48 6.48 -5.	7.5 7.8	7.9	3.0	4.9	✓		
17.	R.	7:50 6.50 -5.	6.3	6.8	3.0	3.8	✓		
18.	Y.								

383+00 Base

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 378+00		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1.	R.Y.	8:00=	29.7 27.5 28.2	28.2	2.9	25.3	
2.	R.	7.00-S	26.3 27.2	26.9 ~~27.1~~	2.9	24.0	
3.	Y.		25.0 25.2	25.7	2.9	22.8	
4.	R.Y.	8:04= 7.04-S.	24.0 25.2	24.4	2.9	21.5	
5.	R.		22.8 23.0	23.6	2.9	20.7	
6.	Y.		21.2 21.5	21.8	2.9	18.9	
7.	R.Y.	8:08= 7.08-S	20.1 20.7	20.6	2.8	17.8	
8.	R.		18.5 19.0	19.2	2.8	16.4	
9.	Y.		17.1 17.4	17.7	2.8	14.9	
10.	R.Y.	8:11= 7.11-S.	16.0 16.2	16.5	2.8	13.7	
11.	R.		14.8 14.8	15.3	2.8	12.5	
12.	Y.		13.5 15.2	13.9	2.8	11.1	
13.	R.Y	8:13= 7.13-S.	12.5 12.4	13.4	2.8	10.6	
14.	R.		11.1 12.3	11.5	2.8	8.7	
15.	Y.		10.0 10.3	10.8	2.8	8.0	
16.	R.Y.	8:15= 7.15-S.	8.7 9.8	9.2	2.8	6.4	
17.	R.		7.7 9.0	8.4	2.7	5.7	
18.	Y.	8:19= 7.19-S.	6.9	7.6	2.7	4.9	

BOAT
378+00

F. B. 1794 Pg. 54 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 Vollnegle Notes Chkd T.M.L. Checked X-Sec.
Indexed A. C. Johnson Date 6-27-51 Date 7-13-51 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.

60

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
373+00	3.6	17.9		14.30	1X2 ON Beach	
28 RT			2.2	15.7	BRK	
69 "			1.9	16.0	TOP SL.	
16 LT.			4.6	13.3	BRK.	
35 "			8.0	9.9	"	
63 T.P. "	1.7	7.7	11.9	6.0	T.P.	WATER
102 LT			6.2	1.5	BRK.	
112 "			8.0	-0.3	OCEAN	FLOOR
132 "			7.3	+0.4	"	"
177 "			9.2	-1.5	"	"
229 "			11.6	-3.9	"	"
296 "			12.2	-4.5	"	"

IN SHORE PROFILE
373+00

Profile Notes Red. _____ Plotted _____ Job No. 8442 Division No. 13 F.B. 1294 Pg. 55
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES, CLIFTON BLVD.
X-Sec. Notes Chkd. T.M.I. Checked _____ Survey by C.V.C. Notes C.V.C. Date 7-3-57
No. _____ Date 7-12-57 Date _____ Map No. _____ 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.		
368+00	0.95	16.6		15.61	1x2 on BEACH	
22' RT			0.9	15.7'	BRK.	
30 "			0.2	16.4	Toe SL.	
28 LT			0.9	15.7	BRK -	
56 "			5.1	11.5	"	
100 " T.P.	1.8	7.5	10.9	5.7 T.P.		Water
137 LT.			6.5	1.0	ocean	FLOOR
151 "			8.6	-1.1	"	"
189 "			8.0	-0.5	"	"
241 "			9.6	-2.1	"	"
277			10.5	-4.0	"	"
296			12.2	-4.7	"	"

Shore 368+00

F. B. 1294 Pg. 56 14 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 Notes Chkd T.M.I. Checked
Indexed A. C. Johnson Date: 6-28-51 Date 7-12-51 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
373+00	378+00	1	R+Y	8:33	90°-06'	
		2	R		89°-35'	
		3	Y		89°-30'	
		4	R+Y	8:37	89°-21'	
		5	R		89°-23'	
		6	Y		90°-00'	
		7	R+Y	8:40	89°-35'	
		8	R		90°-02'	
		9	Y		89°-33'	
		10	R+Y	8:42.5	90°-24'	
		11	R		89°-50'	
		12	Y		90°-17'	
		13	R+Y	8:45	89°-51'	
		14	R		89°-01'	
		15	Y		90°-17'	
		16	R+Y	8:49	90°-09'	
		17	R	8:50	89°-25'	

RANGE
~~388+00~~
373+00

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ 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 J.M. Date 6-27-51
Map No. ____ Date ____ Inked Johnson Date ____

F.B. 1292 PG. 57

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
368+00	378+00	1	R+Y	9:03	90° 00'		
		2	R		90° 03'		
		3	Y		92° 50'		
		4	R&Y	9:06	92° 05'		
		5	R		92° 02'		
		6	Y		88° 02'		
		7	R&Y	9:09	88° 02'		
		8	R		90° 07'		
		9	Y		89° 50'		
		10	R&Y	9:13	88° 24'		
		11	R		88° 3'		
		12	Y		8[illegible]		
		13	R&Y	9:15	88° 06'		
		14	R		89° 19'		
		15	Y		89° 12'		
		16	R&Y	9:18	8[illegible] 03'		
		17	R		90° 06'		
		18	Y	9:21	89° 46'		

RANGE 368+00

F.B. 1294 PG. 58 Job No. 8412 Division No. V Notes Red Plotted No. Profile
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by F.H.B. Notes M. Natapoff Notes Chkd Checked No.
Indexed R. C. Johnson Date 6-27-51 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
378+00	373+00	1	R & Y	8:33 5	63°06.	
		2	R		62°47.	
		3	Y		60°46.	
		4	R & Y	8:38	57°48.	
		5	R		56°10.	
		6	Y		53°47.	
		7	R & Y	8:41	52°21.	
		8	R		50°48.	
		9	Y		48°54.	
		10	R & Y	8:43	47°57.	
		11	R		46°50.	
		12	Y		44°35.	
		13	R & Y	8:46	43°12.	
		14	R		39°43.	
		15	Y		36°35.	
		16	R & Y	8:49 5	33°20.	
		17	R	8:50 5	31°40.	

CUT IN
373+00

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. ____ Division No. ____
X-Sec. Date ____ Survey of Beach Erosion Studies
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by F.H.B. Notes M.S. Date 6-27-51
Map No. ____ Indexed Johnson Date ____

F.B. 1294 Pg. 59

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	
378+00	368+00	1	R&Y	9:035	45°21		
		2	R		44°52		
		3	Y		43°12		
		4	R&Y	9:07	41°43		
		5	R		4[illegible]3		
		6	Y		39°08		
		7	R&Y	9:10	3[illegible]40		
		8	R		34°42		
		9	Y		33°04		
		10	R&Y	9:14	3[illegible]2		
		11	R		30°00		
		12	Y		27°53		
		13	R&Y	9:16	2[illegible]9		
		14	R		24°[illegible]4		
		15	Y		22°16		
		16	R&Y	9:19	20°33		
		17	R		18°32		
		18	Y	9:21	16°21		

CUT IN 368+00

F.B. 1/4 PG. 60

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

Survey of Beach Erosion Studies Date 6-27-51 Date ____ No. ____

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

Indexed A. C. Johnson 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 373+00

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1.	R.Y.	8:33= 7.33-S	29.3 27.4 29.0	28.0	2.6	25.4	
2.	R.		26.3 26.8	27.2	2.6	24.6	
3.	Y.		24.5 25.5	25.3	2.6	22.7	
4.	R.Y.	8:38= 7.38-S.	23.2 23.0	24.0	2.6	21.4	
5.	R.		21.8 21.4	22.2	2.6	19.6	
6.	Y.		19.9 20.5	20.4	2.6	17.8	
7.	R.Y.	8:41= 7.41-S	18.3 18.6	19.0	2.5	16.5	
8.	R.		17.0 17.6	17.5	2.5	15.0	
9.	Y.		15.6 15.8	16.3	2.5	13.8	
10.	R.Y.	8:43= 7.43-S	14.6 15.0	15.0	2.5	12.5	
11.	R.		13.5 14.5	14.0	2.5	11.5	
12.	Y.		12.6 14.1	13.2	2.5	10.7	
13.	R.Y.	8:46= 7.46-S.	11.1 12.0	12.1	2.5	9.6	
14.	R.		9.9 10.3	10.6	2.5	8.1	
15.	Y.		8.7 9.0	9.2	2.5	6.7	
16.	R.Y.	8:49= 7.49-S	7.0 7.7	7.7	2.5	5.2	
17.	R.	8:51= 7.51-S.	6.0	6.6	2.4	4.2	

BORT
373+00

Profile Notes Red ____ Plotted T.M.L. Job No. 8412 Division No. V
No. ____ Date ____ Date 7-13-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked [illegible] Survey by E.H.B. Notes Millnagle Date 6-27-51
No. ____ Date ____ Date 7-13-51 Map No. ____ Indexed C. Johnson Date ____

F.B. 1294 Pg. 61

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. 1294 Pg. 62 | Job No. 8412 Division No. V Notes Red. Tape Plotted Profile
Survey of Beach Erosion Studies Date 7-13-57 No. X-Sec.
Survey by E.H.B. Notes Kellingley Notes Chkd. Clerk Checked No.
Indexed R. C. Job #3095 Date 6-27-57 Date 7-18-57 Date

STATION 368+00

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
			29.2				
1.	R.Y.	9:03 = 8.03-5.	27.0 27.9	27.7	2.4	25.3	
2.	R.		26.0 26.5	26.6	2.4	24.2	
3.	Y.		25.1 25.8	25.6	2.3	23.3	
4.	R.Y.	9:07 = 8.07-5	24.0 25.1	24.6	2.3	22.3	
5.	R.		22.8 24.1	23.6	2.3	21.3	
6.	Y.		21.7 22.0	22.5	2.3	20.2	
7.	R.Y.	9:10 = 8.10-5	20.3 20.2	20.9	2.3	~~18.6~~ 18.6 ~~18.7~~	
8.	R.		18.6 19.3	19.1	2.3	16.8	
9.	Y.		17.5 17.8	18.1	2.3	15.8	
10.	R.Y.	9:14 = 8.14-5	16.0 16.7	16.6	2.3	14.3	
11.	R.		14.3 14.8	15.1	2.3	12.8	
12.	Y.		12.9 14.2	13.5	2.3	11.2	
13.	R.Y.	9:16 = 8.16-5.	11.9 12.2	12.7	2.3	10.4	
14.	R.		10.9 12.2	11.3	2.3	9.0 ~~7.8~~ 7.8 ~~7.9~~	
15.	Y.		9.1 11.1	10.1	2.3		
16.	RY.	9:19 = 8.19-5.	9.0 9.7	9.0	2.3	6.7	
17.	R.		7.0 7.0	7.9	2.2	5.7	
18.	Y	9:21 = 8.21-5.	5.9	6.6	2.2	4.4	

Boat 368+00

76L298 307 4-50

7.6 8.3

19.5
11.9
7.6

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.

90

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
363+00	4.5	19.0		14.5	XX2 ON Beach	
26 RT.			3.3	15.7	Toe SL.	
21' LT			5.5	13.5	BP	
41 LT			8.2	10.8	BRK	
72 " T.P	0.7	7.8	11.9	7.1	T.P	
90 LT			3.3	4.5	Water	
115 "			6.6	1.2	OCEAN	FLOOR
130 "			9.0	-1.2	"	"
170 "			8.4	-0.6	"	"
214 "			9.6	-1.8	"	"
248			11.4	-3.6	"	"

IN SHORE PROFILE
363+00

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. 15 F. B. 1294 No. 63
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (CLAFTON
X-Sec. Notes Chkd ____ Checked ____ Survey by C.V.Co. Date 6-3-55
No. ____ Date ____ Date ____ Map No. ____ Dir. C. 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.

8.1

15.0
1.6
16.6
11.8
5.1

Do not extend notes this side of this line.

B.M.I-C = 17.51

STATION	B. S.	H. I.	F. S.	ELEV.		
358+00	1.6	15.6		13.99	1X2 on Beach	(PROFILE NOTES)
18' RT			0.2	15.4	Beach	
25 "			0.0	15.6	Toe SL.	
30 LT			5.3	10.3	BRK	
60 "			8.1	7.5	"	
66 "			10.3	5.3	"	
75 T.P.	3.1	7.2	11.5	4.1	T.P. Water	
100 LT			6.4	0.8	BRK	
122 "			8.8	-1.6	"	
142			7.7	-0.5	OCEAN	FLOOR.
170			8.2	-1.0	"	"
212			10.0	-2.8	"	"
264			12.2	-5.0	"	"
305			12.5	-5.3	"	"

Shore 358+00

F. S. 1294 Pg. 64 16 Job No. 8412 Division No. Notes Red. T. Plotted Profile
Survey of BEACH EROSION STUDIES (CLIFTON) Date Date No.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. T.M.C. Checked X-Sec.
Indexed A. C. Johnson Date 6-28-51 Date 7-12-51 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
363+00	358+00	1	R+Y	9:44	90°-02'	
		2	R		91°-04'	
		3	Y		91°-05'	
		4	R+Y	9:48	91°-14'	
		5	R		91°-04'	
		6	Y		90°-59'	
		7	R+Y	9:50	90°-52'	
		8	R		90°-46'	
		9	Y		90°-24'	
		10	R+Y	9:53	89°-47'	
		11	R		90°-24'	
		12	Y		90°-13'	
		13	R+Y	9:55	90°-53'	
		14	R		90°-14'	
		15	Y		90-02'	
		16	R+Y	9:58.5	90°-00'	
		17	R	10:00	90°-09'	

RANGE
363+00

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 E.H.B. Notes J.M. Date 6-27-51
Map No. ____ Indexed R.C. Johnson Date ____

F.B. 1294 Pg. 65

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.

F.B. 1144 PG. 66

Job No. 8412 Division No. V Notes Red Plotted Profile
Survey of Beach Erosion Studies Date Date No
Survey by F.H.R. Notes C.B.S. Notes Chkd Checked X-Sec.
Indexed A. C. Johnson Date 6-27-51 Date Date No

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
358+00	363+00	1	[illegible]	10:09	[illegible]	
		2	[illegible]		60° 20'	
		3	[illegible]		[illegible] 11'	
		4	[illegible]	10:12.5	[illegible] 06'	
		5	[illegible]		[illegible]	
		6	[illegible]		[illegible]	
		7	[illegible]	10:18	[illegible]	
		8	[illegible]		[illegible]	
		9	Y		[illegible] 10'	
		10	R & Y	10:21.5	[illegible] 39'	
		11	R		[illegible] 19'	
		12	Y		[illegible]	
		13	R & Y	10:26.5	[illegible]	
		14	R		[illegible]	
		15	Y		[illegible]	
		16	R & Y	10 30	10° 30	
		17	R		[illegible] 54'	
		18	Y	10:33	[illegible] 49'	

RANGE
358+00

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 Inst. Sight At	On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
358+00	363+00	1	R & Y	9:45	62°54.	
		2	R		60°38.	
		3	Y		59°27.	
		4	R & Y	9:49	57°54.	
		5	R		56°36.	
		6	Y		55°36.	
		7	R & Y	9:51	53°38.	
		8	R		52°44.	
		9	Y		51°21.	
		10	R & Y	9:53	49 28.	
		11	R		48 46.	
		12	Y		46 44.	
		13	R & Y	9:56	44 27.	
		14	R		41°45.	
		15	Y		39°18.	
		16	R & Y	959	35°52.	
		17	R	10 01	31°00.	

Cut in 363+00

Profile Notes Red____ Plotted____ Job No. 8412 Division No. Y F. B. 1294 Pg 7
No.____ Date____ Date____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd____ Checked____ Survey by F.H.P. Notes M.S. Date 6-27-51
No.____ Date____ Date____ Map No.____ Traced by 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.

F. B. 1294 Pg. 68 | Job No. 8412 Division No. Y Notes Red. Plotted T.M.L
Survey of Beach Erosion Studies Date 6-27-51 Date 7-31-51 No.
Survey by E. H. B. Notes M.S. Notes Chkd. Checked X-Sec.
Indexed K. C. Johnson Date Date Date No.
Profile

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
363+00	358+00	1	R & Y	10:09	64° 03	.	
		2	R		62° 19	.	
		3	Y		61° 15	.	
		4	R & Y	10:13	60° 41	.	
		5	R		58° 15	.	
		6	Y		56° 38	.	
		7	R & Y	10:18	54° 10	.	
		8	R		52° 36	.	
		9	Y		50° 07	.	
		10	R & Y	10:22	47° 50	.	
		11	R		46° 53	.	
		12	Y		44° 23	.	
		13	R & Y	10:27	42° 15	.	
		14	R		40° 23	.	
		15	Y		36° 08	.	
		16	R & Y	10:31	32° 19	.	
		17	R		30° 31	.	
		18	Y	10:33	28° 53	.	

CUT IN 358+00

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 363+00		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			28.2				
1.	R.Y.	9:45=	26.9	27.3	2.2	25.1 ✓	
		8.45-S.	26.7				
2.	R.		25.5	25.9		23.7 ✓	
			25.5				
3.	Y.		24.1	24.6 ~~24.5~~		22.4 ✓	
			24.2				
4.	R.Y.	9:49=	23.1	23.4	2.1	21.3 ✓	
		8.49-S.	23.3				
5.	R.		21.9	22.4		20.3 ✓	
			22.1				
6.	Y.		20.9	21.2		19.1 ✓	
			21.8				
7.	R.Y.	9:51=	19.7	20.4 ~~20.0~~	2.1	18.3 ✓	
		8.51-S.	20.0				
8.	R.		18.5	19.0		16.9 ✓	
			18.7				
9.	Y.		17.0	17.6		15.5 ✓	
			18.2				
10.	R.Y.	9:54=	16.0	16.7	2.1	14.6 ✓	
		8.54-S.	16.6				
11.	R.		14.7	15.3		13.2 ✓	
			15.1				
12.	Y.		12.9	13.6		11.5 ✓	
			14.0				
13.	RY.	9:56=	11.9	12.6	2.1	10.5 ✓	
		8.56-S.	12.6				
14.	R		10.7	11.3		9.2 ✓	
			12.0				
15.	Y.		9.0	10.0		7.9 ✓	
			9.5				
16.	R.Y.	9:59=	8.0	8.5	2.1	6.4 ✓	
		8.59-S.	10.0				
17.	R.	10:00=	6.9	7.9	2.1	5.8 ✓	
		9.00-S.					
18.	Y.						

BOAT
363+00

Profile Notes Red T.M.L. Plotted — Job No. 8412 Division No. V F.B. 1294 Pg. 69
No. Date 7-13-51 Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. [illegible] Checked Survey by F.M.B. Notes [illegible] Date 6-27-51
No. Date 7-13-51 Date Map No. Indexed Johnson Date

76L298-907 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.

F. B. 1294 Pg. 70 | Job No. 8412 Division No. V Notes Red. T.M.L. Plotted _____ Profile _____
Survey of Beach Erosion Studies Date 7-13-51 Date _____ No. _____
Survey by E.H.B. Notes Anderson Notes Chkd. Checked _____ X-Sec. _____
Indexed R. C. Johnson Date 6-22-51 Date 7-13-51 Date _____ No. _____

STATION 358+00 #	Color	B. S. Time	H. I. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
			28.8				
1.	R.Y.	10:09	26.9	27.2	2.1	25.1 ✓	
		9.09-S.	26.6				
2.	R.		25.0	25.5		23.4 ✓	
			26.1				
3.	Y.		24.8	25.2		23.1 ✓	
			25.1				
4.	R.Y.	10:13	23.2	23.8	2.1	21.7 ✓	
		9.13-S.	23.3				
5	R.		22.0	22.4		20.3 ✓	
			22.5				
6.	Y.		21.1	21.6		19.5 ✓	
			21.0				
7.	R.Y.	10:18	19.5	20.0	2.1	17.9 ✓	
		9.18-S.	19.7				
8.	R.		18.0	18.6		16.5 ✓	
			17.7				
9.	Y.		16.6	17.0		14.9 ✓	
			16.9				
10.	R.Y.	10:22	15.0	15.6	2.1	13.5 ✓	
		9.22-S.	15.8				
11.	R.		14.1	14.7		12.6 ✓	
			14.0				
12.	Y.		12.7	13.1		11.0 ✓	
			13.5				
13.	RY	10.27	11.5	12.2	2.1	10.1 ✓	
		9.27-S.	12.5				
14.	R		10.1	10.9		8.8 ✓	
			10.8				
15.	Y		9.0	9.6		7.5 ✓	
			9.8				
16.	RY	10 31	8.7	9.1	2.1	7.0 ✓	
		9.31-S.	8.9				
17	R		6.8	7.2		5.1 ✓	
			7.5				
18	Y	10:33	5.6	6.2	2.1	4.1 ✓	BOAT 358+00
		9.33-S.					

76L298 307 4-50

18.6
4.7
23.3

60'

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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.

17.5
1.7
15.8
2.8
18.6

13.1 13.1

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
353+00	4.7	18.3		13.64	1X2 ON Beach	(PROFILE NOTES)
14' RT			1.7	16.6	Toe SL.	
21' LT			8.4	9.9	BRK	
38 "			10.4	7.9	"	
49' LT. T.P.	1.7	8.1	11.9	6.4	T.P.	
94 LT			7.0	1.1	BRK.	
117 "			10.0	-1.9	OCEAN	FLOOR
153 "			8.9	-0.8	"	"
192 "			10.4	-2.3	"	"
218 "			12.2	-4.1	"	"

IN SHORE PROFILE
353+00

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. 17 F. B. 1294 Pg. 71
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES - (CLIFTON BCH)
X-Sec. Notes Chkd. ____ Checked ____ Survey by C.V. CRUMLEY Notes C.V.C. Date 6-28-51
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 4-50

701

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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.

8.6

15
18.2
1.5
7.2

Do not extend notes this side of this line.

F. B. 1294 Page 72 18 Job No 8412 Division No. Profile
Survey of BEACH EROSION STUDIES (GLETON) Plotted No.
Survey by C.V. CRUMLEY Notes C.V.C. Date X-Sec.
Indexed A. C. Johnson Date 6-28-51 Notes Chkd. Checked No.
Date Date

STATION	B. S.	H. I.	F. S.	ELEV.		
348+00	3.7	16.7		13 00	1X2 ON BEACH	(PROFILE NOTES.)
13' RT			1.8	14.9	BRK.	
23' "			05	16.2	TOE SL.	
15' LT			5.8	10.9	BRK.	
38' "			8.9	7.8	"	
60' T.P.	1.4	6.6	11.5	5.2	T.P.	Water
94' LT			5.2	14	BRK	
130' "			7.9	- 1.3	"	
157' "			7.3	- 0.7	OCEAN	FLOOR.
194' "			8.8	- 2.2	"	"
244' "			8.8	- 2.2	"	"
280' "			12.0	- 5.4	"	"

Shore 348+00

FORM 307 10M 10-48

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.

Profile No.____ Notes Red____ Plotted____ Job No. 8442 Division No. V
X-Sec. No.____ Date____ Date____ Survey of Beach Erosion Studies
Notes Chkd____ Checked____ Survey by F.H.B. Notes T.M. Date 6-27-51
Date____ Date____ Map No.____ Traversed G. Johnson Date____

F.B. 1294 PG. 73

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Angle	Remarks
353+00	363+00	1	R+Y	10:46	90°-11'	
		2	R		90°-12'	
		3	Y		89°-39'	
		4	R+Y	10:49	88°-33'	
		5	R		88°-34'	
		6	Y		88°-31'	
		7	R+Y	10:55	89°-45'	
		8	R		88°-35'	
		9	Y		89°-35'	
		10	R+Y	10:58	89°-19'	
		11	R		89°-01'	
		12	Y		89°-15'	
		13	R+Y	11:02	89°-47'	
		14	R		89°-31'	
		15	Y		89°-17'	
		16	R+Y	11:05	90°-37'	
		17	R	11:06	90°-35'	

RANGE
353+00

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.

F.B. 1944 PG. 74

Job No. 8412 Division No. V Notes Red Plotted Profile
Survey of Beach Erosion Studies Date No.
Survey by F.H. Blanchard Notes J. Maldonado Notes Chkd Checked X-Sec.
Indexed A. C. Johnson Date 6-28-51 Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
348+00	344+22	29 1.	R+Y	6:57	89° - 42'	✓
		2	R		90° - 17'	✓
		3	Y		91° - 14'	✓
		4	R+Y	7:04	91° - 32'	✓
		5	R		91° - 05'	✓
		6	Y		92° - 09'	✓
		7	R+Y	7:09	89° - 14'	✓
		8	R		88° - 50'	✓
		9	Y		90° - 20'	✓
		10	R+Y	7:13	90° - 33'	✓
		11	R		90° - 12'	✓
		12	Y		90° - 00'	✓
		13	R+Y	7:16	89° - 26'	✓
		14	R		90° - 05'	✓
		15	Y		90° - 02'	✓
		16	R+Y	7:21	89° - 30'	✓
		17	R	7:22	90° - 15'	✓

Range
348+00

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	
363+00	353+00	1	R & Y	10 45	43°31	.	
		2	R		42°46	.	
		3	Y		41°21	.	
		4	R & Y	10 50	40°08'	.	
		5	R		38°27	.	
		6	Y		37°04	.	
		7	R & Y	10°56	34°03	.	
		8	R		33°13	.	
		9	Y		30°32	.	
		10	R & Y	10:59	29°13	.	
		11	R		27°26	.	
		12	Y		25°18	.	
		13	R & Y	11:03	23°25	.	
		14	R		19°39	.	
		15	Y		18°18	.	
		16	R & Y	11:06	15°46	.	
		17	R	11 07	14°30'	.	

CUT IN
~~353~~
353+00

Profile Notes Red. Plotted T. M. L. Job No. 8412 Division No. X F. B. 1294 Pg. 75
No. Date Date 7-31-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes M.S. Date 6-27-51
No. Date Date Map No. Indexed C. 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.

F. B. 1294 Pg. 70 | Job No. 8412 Division No. V | Notes Rcd. | Plotted 7-31-51 | Profile
Survey of Beach Erosion Studies | Date 8-28-51 | Date 7-31-51 | No.
Survey by E. H. B. | Notes M. S. | Notes Chkd. | Checked | X-Sec.
Indexed A. C. Johnson | Date | Date | Date | No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
344+22.29 343+00	1	R & Y	6:58	72°15	S-25 Monument.	7-28-51
	2	R		68°51		
	3	Y		66°48		
	4	R & Y	7:04	65°14		
	5	R		63°50		
	6	Y		62°38		
	7	R & Y	7:09	62°51		
	8	R		61°30		
	9	Y		58°24		
	10	R & Y	7:135	57°07		
	11	R		55°50		
	12	Y		52°30		
	13	R & Y	7:17	51°07		
	14	R		47°50		
	15	Y		43°40		
	16	R & Y	7:21	39°42		
	17	R	7:22	35°42	Cut-in 348+00	

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

Profile Notes Red Plotted Job No. 8414 Division No. V
No. X-Sec. Date 7-13-57 Date Survey of Beach Erosion Studies
Notes Chkd. Checked Survey by E.M.G. & C. Inspected by Anderson Date 6-27-57
No. Date 7-13-57 Date Map No. Inspected by Johnson Date

F.B. 12704 pg. 77

STATION 26+3700	B. S.	H. I. M.L.L.W. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
# Color	Time	27.8				
1. RY.	10.46=	26.7	27.1	2.1	25.0	
	9.46-5.	27.3				
2. R.		25.8	26.0	2.1	23.9	
		26.0				
3. Y.		24.0	24.7	2.1	22.6	
		24.6				
4. RY.	10.50=	22.7	23.3	2.1	21.2	
	9.50-5.	23.4				
5. R.		21.5	22.1	2.1	20.0	
		22.0				
6. Y.		20.5	21.0	2.1	18.9	
		20.5				
7. RY.	10.56=	19.1	19.6	2.1	17.5	
	9.56-5.	19.4				
8. R.		17.8	18.3	2.1	16.2	
		18.0			14.3	
9. Y.		16.5	17.0	2.1	~~15.9~~	
		17.1				
10. RY.	10:59=	15.3	15.9	2.1	13.8	
	9.59-5.	15.5				
11. R.		14.0	14.5	2.1	12.4	
		14.1				
12. Y.		12.6	13.1	2.2	10.9	
		13.0				
13. RY.	11:03=	11.3	11.9	2.2	9.7	
	10.03-5.	11.6				
14. R.		9.7	10.3	2.2	8.1	
		10.0				
15. Y.		8.3	8.9	2.2	6.7	
		8.8				
16. RY.	11.06=	7.8	7.8	2.2	5.6	
	10.06-5.	8.2				
17. R	11:07=	6.5	7.1	2.2	4.9	
	10.07-5					

Boat
35+00

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

STATION 348+00		B. S.	H.L. Meas.	F. S.	Elev. Ht.		
#	Color	Time	Depth	Botom	Tide	Adj. Depth	Remarks
1.	RY	6:57 = 5.57-S.	29.9 28.2	28.8	3.4	25.4	
2.	R		29.2 26.9	27.7		24.3	
3.	Y		28.1 25.3	26.2		22.8	
4.	RY	7:04 = 6.04-S	26.9 24.1	25.0	3.4	21.6	
5.	R		25.4 22.9	23.7		20.3	
6.	Y		24.1 21.9	22.6		19.2	
7.	RY	7:09 = 6.09-S.	22.8 20.7	21.4	3.4	18.0	
8.	R		21.3 19.1	19.8		16.4	
9.	Y		20.0 17.2	18.1		14.7	
10.	RY	7:13 = 6.13-S.	18.5 15.9	16.8	3.4	13.4	
11.	R		17.1 14.9	15.6		12.2	
12.	Y		15.8 13.1	14.0		10.6	
13.	RY	7:16 = 6.16-S.	15.5 11.8	13.0	3.4	9.6	
14.	R		12.9 10.7	11.4		8.0	
15.	Y		12.0 9.5	10.3		6.9	
16.	RY	7:21 = 6.21-S.	10.9 8.4	9.2	3.4	5.8	
17.	R	7:22 6.22-S.	10.5 7.5	8.5	3.4	5.1	

Boat

348+00

F.B. 1294 Pg. 78

Job No. 8412 Division No. V Notes Red T.M.L. Plotted

Survey of Beach Erosion Studies Date 7-13-51 Date No.

Survey by Notes Anderson Notes Chkd. RLW Checked X-Sec.

Indexed A. C. Johnson Date 6-28-51 Date 7-13-51 Date No.

Profile

76L298 307 4-50

15.
3.6
18.6
11.7
6.0

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.

7.3

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.			
343+00	3.6	17.7		14.09	1X2		S-ON S-25 (82°-00')
25 RT			2.7	15.0		BRK	
42 "			0.9	16.8		Toe SL.	
33 LT			4.9	12.8		BRK	
52 "			7.5	10.2		"	
70 "			10.3	7.4		"	
79 T.P.	1.3	7.3	11.7	6.0	T.P.	Water	
114 LT			5.8	1.5		BRK	
142 "			7.5	-0.2		OCEAN	FLOOR.
163 "			7.5	-0.2		"	"
200 "			9.0	-1.7		"	"
230			10.3	-3.0		"	"
248			10.6	-3.3		"	"
268			10.9	-3.6		"	"
291			12.0	-4.7		"	"

IN SHORE PROFILE
343+00

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. 19 F.B. 1294 Pg. 79
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES.
X-Sec. Notes Chkd. ____ Checked ____ Survey by C.V.C. Notes C.V.C. Date 6-28-61
No. ____ Date ____ Date ____ Map No. ____ Date ____

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
						∡ 82°-00' - S. ON S-25
340+50	1.1	215		20.39		PK. SPK. PT. IN SERVICE RD
13' LT			1.0	205		TOP CURB
28 "			2.0	195		TOP Bank
48 "			7.0	14.5		Toe "
72 "			9.3	122		BRK
92' T.P.	0.4	100	11.9	96	T.P.	
117' T.P	16	71	4.5	55	T.P.	Water
151' LT			5.2	19		BRK
179 "			7.2	-0.1		OCEAN FLOOR
225 "			7.6	-0.5		" "
289 "			10.8	-3.7		" "
317 "			11.3	-4.2		" "
338 "			12.0	-4.9		" "

Shore 340+50

F. B. 1294 Pg. 80 | 20 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. | Checked | K-Sec.
Indexed A. C. Johnson | Date 6-28-51 | Date | Date | No.

FORM 307 10M 10-48

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.

Profile No. ____ Notes Red ____ Platted ____ Job No. 8412 Division No. V
X-Sec. No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
Notes Chkd. ____ Checked ____ Survey by F.H.R. Notes J.M. Date 6-28-51
Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1279 Pg. 81

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
343+00	338+00	1	R+Y	7:37	98°-50'	
		2	R		99°-20'	
		3	Y		98°-07'	
		4	R+Y	7:47	99-04'	
		5	R		98°-26'	
		6	Y		97°-24'	
		7	R+Y	7:55	98°-56'	
		8	R		98°-42'	
		9	Y		99°-58'	
		10	R+Y	8:00	99°-56'	
		11	R		98°-33'	
		12	Y		98°-40'	
		13	R+Y	8:05	98°-26'	
		14	R		99°-31'	
		15	Y		99°-01'	
		16	R+Y	8:09	98°-43'	
		17	R	8:11	99°-28'	

RANGE
343+00

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.

F.B. 1294 Pg. 82

Job No. 3412 Division No. V Notes Red No. Plotted
Survey of Beach Erosion Studies Date Profile
Survey by E.H. Blanchard Notes J. Maldonado Notes Chkd. Checked X-Sec.
Indexed E. C. Johnson Date 6-28-51 Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Angle		Remarks
340+50 / 338+00	1	R+Y	8:27	75°	4'	
	2	R		99°	13'	
	3	Y		98°	16'	
●	4	R+Y	8:31	98°	16'	
	5	R		99°	10'	
	6	Y		99°	17'	
	7	R+Y	8:36	98°	18'	
	8	R		98°	4'	
	9	Y		97°	51'	
	10	R+Y	8:38.5	98°	11'	
	11	R		98°	2'	
	12	Y		98°	8'	
	13	R+Y	8:41	97°	13'	
	14	R		98°	5'	
	15	Y		97°	0'	
	16	R+Y	8:44	97°	8'	
	17	R		97°	0'	
	18	Y	8:47.5	96°	19'	
						Range 340+50

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.

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V F.B. 294 Pg. 83
X-Sec. No. ____ Date ____ Date 7-31-51 Survey of Beach Erosion Studies
Notes Chkd ____ Checked ____ Survey by FHB Notes MS Date 6-28-51
Date ____ Date ____ Map No. ____ Indexed Tabulated Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
338+00	343+00	1	R&Y	7:37	57°52'	
		2	R		56°15	
		3	Y		55°23	
		4	R&Y	7:47	54°44	
		5	R		53°02	
		6	Y		51°52	
		7	R&Y	7:55	50°14	
		8	R		48°19	
		9	Y		47°51	
		10	R&Y	8:00	44°50	
		11	R		44°07	
		12	Y		42°14	
		13	R&Y	8:05	39°40	
		14	R		37°20	
		15	Y		34°11	
		16	R&Y	8:10	31°27	
		17	R	8:12	27°27	

CUT IN
B 343+00

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	
338+00	340+50	1	R & Y	8:27	63°02		
		2	R		62°20		
		3	Y		67°50		
		4	R & Y	8 31	66°59		
		5	R		66°44		
		6	Y		65°27		
		7	R & Y	8:36	65°07		
		8	R		64°21		
		9	Y		63°24		
		10	R & Y	8 38½	62°18		
		11	R		60°46		
		12	Y		59°58		
		13	R & Y	8:41	59°07		
		14	R		58°41		
		15	Y		56°47		
		16	R & Y	8:44	53°57		
		17	R		51°15		
		18	Y	8 47½	48°43		

Cut in 340+50

F.B. 4294 Pg. 84

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

Survey of Beach Erosion Studies Date 6-28-51 Date X-Sec.

Survey by F.H.B. Notes MS Notes Chkd. Checked 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 343+00		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks	
1.	RY	7:37 = 6.37-S.	30.0 / 28.0	28.7	3.4	25.3 ✓		
2.	R		29.0 / 27.0	27.7		24.3 ✓		
3.	Y		27.9 / 26.0	26.6		23.2 ✓		
4.	RY	7:47 = 6.47-S.	27.5 / 24.9	25.8	3.4	22.4 ✓		
5.	R		25.4 / 23.9	24.4		21.0 ✓		
6.	Y		24.9 / 22.1	23.0		19.6 ✓		
7.	RY	7:55 = 6.55-S.	23.7 / 21.1	22.0	3.4	18.6 ✓		
8.	R		21.3 / 20.0	20.4		17.0 ✓		
9.	Y		21.6 / 18.9	19.8		16.4 ✓		
10.	RY	8:01 = 7.01-S.	18.9 / 16.9	17.6	3.4	14.2 ✓		
11.	R		17.9 / 15.9	16.6		13.2 ✓		
12.	Y		17.0 / 13.9	14.9		11.5 ✓		
13.	RY	8:05 = 7.05-S.	14.0 / 12.2	12.8	3.4	9.4 ✓		
14.	R		12.5 / 10.8	11.4		8.0 ✓		
15.	Y		11.2 / 9.4	10.0		6.6 ✓		
16.	RY	8:10 = 7.10-S.	10.2 / 8.3	8.9	3.3	5.6 ✓		
17.	R	8:11 = 7.11-S.	9.1 / 6.9	7.6	3.3	4.3 ✓		

BOAT
343+00

Profile
No. ____ Date 7-13-51 Notes Red. [illegible] Plotted ____ Job No. 8412 Division No. ✓ F. B. 1294 Pg. 85
X-Sec. Notes Chkd. [illegible] Checked ____ Survey of Beach Erosion [illegible] Date 6-28-51
No. ____ Date 7-13-51 Date ____ Map No. ____ Survey by E.H.B. [illegible] Date ____

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. B. 1294 Pg. 86 | Job No. 8412 | Division No. V | Notes Red. Tenn | Plotted | No. | Profile
Survey of Bob Erosion Studies | Date 6-28-51 | Date | No. | X-Sec.
Survey by F.H.B. | Notes V.B.A | Notes Chkd Bauer | Checked
Indexed A. C. Johnson | Date | Date 7-11-51 | Date | No.

STATION 340+50

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	RY	8:27	30.5				
		7.27-S.	28.1	28.3	4.2	24.7	
2	R		30.0				
			27.1	28.1	4.2	23.9	
3	Y		27.5				
			26.0	26.5	4.2	22.3	
4	RY	8:31	26.5				
		7.31-S.	24.8	25.4	4.2	21.2	
5	R		25.7				
			23.8	24.4	4.2	20.2	
6	Y		24.9				
			22.7	23.4	4.2	19.2	
7	RY	8:36	23.0				
		7.36-S.	21.6	22.1	4.2	17.9	
8	R		22.6				
			20.4	21.1	4.2	16.9	
9	Y		20.8				
			19.1	19.7	4.2	15.5	
10	RY	8:39	19.8				
		7.39-S.	18.1	18.7	4.2	14.5	
11	R		18.8				
			16.8	17.5	4.2	13.3	
12	Y		18.2				
			14.8	15.5	4.2	11.7	
13	RY	8:42	16.1				
		7.42-S.	13.4	14.3	4.1	10.2	
14	R		14.0				
			12.0	12.7	4.1	8.6	
15	Y		12.6				
			10.9	11.1	4.1	7.0	
16	RY	8:45	11.0				
		7.45-S.	9.0	9.7	4.1	5.6	
17	R		11.0				
			8.0	9.0	4.1	4.9	
18	Y	8:48	9.0				
		7.48-S.	7.0	7.8	4.1	3.7	

Boat 340+50

307 4-50

100

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.			
						4 82° - 00' - S. ON S-25.	
338+00	2.6	25.0		22.44		PK SPK.	(PROFILE NOTES.)
7 LT			2.3	22.7		TOP Cb.	
12' LT			2.1	22.9		TOP Bank	
30 "			8.3	16.7		Toe SL.	
66 T.P.	2.8	16.8	11.0	14.0	T.P.	on Beach	
92 LT.			3.8	13.0		BRK.	
134 "			9.5	7.3		"	
152 T.P.	2.7	7.6	11.9	4.9	T.P.	Water	
178 LT			5.6	2.0		BRK	
189 "			6.7	0.9		OCEAN	FLOOR
222			6.9	0.7		"	"
268			9.5	- 1.9		"	"
301			10.7	- 3.1		"	"
334			11.4	- 3.8		"	"
373			11.6	- 4.0		"	" 1:30 P.M.

IN SHORE PROFILE
338+00

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. 21 R. E. 1294 - 87
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES - (REDONDO BCH)
M.Bks. Notes Chkd ____ Checked ____ Survey by C.V.C. Notes C.V.C. Date 6-28-57
No. ____ Date ____ Date ____ Map No. ____ 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.

150

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
					FB 1290-204 EL=21.31	
					FB. 1290-244 FB. 1184-18 - F.B. 1415-207	
335+50	1.4	22.7		21.33	SPKET ON RD. (90°	
6' LT			1.2	21.5	Top cb.	
10 "			1.3	21.4	Top Bank	
32 "			6.9	15.8	Toe SL.	
64			8.3	14.4	BRK	
105 " T.P.	0.0	10.7	12.0	10.7	T.P. "	
150 " T.P.	0.7	6.2	5.2	5.5	T.P. Water	
181 "			4.8	1.4	BRK	
193 "			5.2	1.0	Ocean FLOOR	
246 "			6.6	-0.4	" "	
300 "			9.7	-3.5	" "	
360 "			11.6	-5.4	" "	

Shore 335+50

F. B. 1294 Pg. 88 22 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES (REDONDO) Date Date No. X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. Checked
Indexed A. C. Johnson Date 6-29-51 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
338+00	340+50	1	R+Y	8:58	82°-26'	
		2	R		82°-37'	
		3	Y		82°-19'	
		4	R+Y	9:09	81°-35'	
		5	R		81°-45'	
		6	Y		82°-21'	
		7	R+Y	9:16	81°-32'	
		8	R		81°-43'	
		9	Y		82°-09'	
		10	R+Y	9:25	82°-38'	
		11	R		81°-41'	
		12	Y		81°-15'	
		13	R+Y	9:35	81°-52'	
		14	R		82°-02'	
		15	Y		82°-14'	
		16	R+Y	9:37.5	82°-14'	
		17	R		82°-22'	
		18	Y		82°-13'	
		19	R+Y	9:41	83°-07'	

RANGE
338+00

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. ____
X-Sec.
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey of Beach Erosion Studies
Survey by E.H.B. Notes J.M. Date 6-28-51
Map No. ____ Indexed ____ Date ____

F.B. 1279 PG. 89

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	
335+50	333+41.22	1	R+Y	9:54	89° - 38'		
		2	R		90° - 05'		
		3	Y		89° - 39'		
		4	R+Y	9:58	89° - 48'		
		5	R		89° - 50'		
		6	Y		89° - 54'		
		7	R+Y	10:01	89° - 54'		
		8	R		90° - 05'		
		9	Y		89° - 17'		
		10	R+Y	10:04	89° - 14'		
		11	R		89° - 21'		
		12	Y		89° - 14'		
		13	R+Y	10:10	89° - 24'		
		14	R		89° - 26'		
		15	Y		89° - 10'		
		16	R+Y	10:14	89° - 45'		
		17	R		89° - 58'		
		18	Y	10:17.5	89° - 12'		

RANGE 335+50

F.B. 179 PG. 90

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

Survey of Beach Erosion Studies Date Date X-Sec.

Survey by E.H. Blanchard Notes J. Maldonado Notes Chkd Checked No.

Indexed A. C. Johnson Date 6-28-51 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. Sight At	On	#	Color	Time	Hor. Ang.		Remarks
340+50	338+00	1	8:58	R & Y	84°46		
		2		R	83°34		
		3		Y	83°11		
		4	9:09	R & Y	83°21	x	
		5		R	82°52		
		6		Y	81°17		
		7	9:16	R & Y	80°47		
		8		R	78°37		
		9		Y	76°47		
		10	9:25	R & Y	75°39		
		11		R	75°18		
		12		Y	74°37		
		13	9:35	R & Y	74°02		
		14		R	72°06		
		15		Y	70°16		
		16	9:37	R & Y	69°12		
		17		R	67°00		
		18		Y	63°33		
		19	9:41	R & Y	60°41		

CUT IN
338+00

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. Date ____ Date ____ Survey of Beach Erosion Studies
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by E.H.B. Notes M.S. Date 6-28-51
Map No. ____ Date ____ Map Rd. Johnson Date ____

F.B. 1294 Pg. 91

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	
333+41.02	335+50	1	R & Y	9:54	77°02	S 23 Monument	
		2	R		77°54		
		3	Y		77°48		
		4	R & Y	9:58	77°03		
		5	R		76°29		
		6	Y		75°31		
		7	R & Y	10:01	74°40		
		8	R		73°15		
		9	Y		72°59		
		10	R & Y	10:04	71°38		
		11	R		70°16		
		12	Y		70°15		
		13	R & Y	10:10	69°04		
		14	R		67°57		
		15	Y		67°12		
		16	R & Y	10 14.5	65°20		
		17	R		61°53		
		18	Y	10 17.5	60°03		

CUT IN
335+50

F.B. 129 PG 92
Job No. 8412 Division No. V Notes Red Plotted Profile
Survey of Beach Erosion Studies Date 6-28-51 Date No.
Survey by E.H.B. Notes M.S. Notes Chkd Checked X-Sec.
Indexed K. C. Johnson Date Date No.

764.298 307 4-50

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

NOTE: ALL ERASURES OR CHANGES MUST BE MADE OR INITIALED, WITH DATE AND REASON FOR MAKING CHANGE.

Do not extend notes this side of this line.

STATION 23870

#	Color	B.S.	H.I.	F.S.	ELEV.	Adj. Depth	
			Mean	Bottom			
1	RY	8:59	30.2 / 27.5	28.45	3.0	25.4 ~~24.4~~	
2	R	7.59-5.	28.0 / 26.5	27.04	3.0	24.0	✓
3	Y		26.6 / 25.5	25.94	3.0	22.9	✓
4	RY	9:09= 8.09-5	25.9 / 24.3	24.84	3.0	21.8	✓
5	R		25.0 / 23.2	23.84	3.0	20.8	✓
6	Y		24.0 / 22.0	22.74	3.0	19.7	✓
7	RY	9:16= 8.16-5	22.6 / 21.0	21.54	2.9	18.6	✓
8	R		21.0 / 19.5	20.04	2.9	17.1	✓
9	Y		19.7 / 18.5	18.94	2.9	16.0	✓
10	RY	9:25= 8.25-5.	18.8 / 17.0	17.64	2.9	14.7	✓
11	R		17.0 / 15.5	14.04	2.9	13.1	✓
12	Y		16.0 / 14.0	14.74	2.9	11.8	✓
13	RY	9:35= 8.35-5	14.7 / 12.9	13.44	2.9	10.5	✓
14	R		12.6 / 11.9	12.14	2.9	9.2	✓
15	Y		11.1 / 10.2	10.54	2.9	7.6	✓
16	RY	9:38= 8.38-5.	10.4 / 9.3	9.74	2.9	6.8	✓
17	R		9.7 / 8.3	8.74	2.9	5.8	✓
18	Y		9.3 / 7.8	7.74	2.9	4.8	✓
19	RY	9:41= 8.41-5.	7.8 / 6.1	6.74	2.9	3.8	✓

Boat
23870

Name [illegible] Planned
Date 2-[illegible]-57 Date
Name [illegible] Checked
Date 2-22-57 Date
Job No. R-117 Division No. V
Survey [illegible] ERSION STUDIES
Map No. [illegible] Drn. V.B.A. Date 6-28-57
Name [illegible] Johnson Date
F.B. 11294 P. 43

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 335+50		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	RY	9:54 = 8.54-S.	28.0 / 26.9	27.3	2.8	24.5	✓
2	R		26.8 / 25.9	26.2	2.8	23.4	✓
3	Y		25.8 / 24.9	25.2	2.8	22.4	✓
4	RY	9:58 = 8.58-S.	25.2 / 23.9	24.3	2.8	21.5	✓
5	R		23.9 / 22.6	23.0	2.8	20.2	✓
6	Y		22.4 / 21.1	21.5	2.8	18.7	✓
7	RY	10:01 = 9.01-S.	21.0 / 19.8	20.2	2.8	17.4	✓
8	R		19.8 / 18.8	19.1	2.8	16.3	✓
9	Y		18.4 / 17.2	17.6	2.8	14.8	✓
10	RY	10:04 = 9.04-S.	17.0 / 16.0	16.3	2.8	13.5	✓
11	R		15.9 / 14.9	15.2	2.8	12.4	✓
12	Y		15.0 / 13.9	14.3	2.7	11.6	✓
13	RY	10:10 = 9.10-S.	14.0 / 12.9	13.3	2.7	10.6	✓
14	R		13.0 / 12.0	12.3	2.7	9.6	✓
15	Y		12.7 / 10.6	11.3	2.7	8.6	✓
16	RY	10:15 = 9.15-S.	11.5 / 9.0	9.8	2.7	7.1	✓
17	R		9.3 / 8.0	8.4	2.7	5.7	✓
18	Y	10:18 = 9.18-S.	7.8 / 6.9	7.2	2.7	4.5	✓

BOAT 335+50

F.B. 1294 Pg. 94 Job No. 8412 Division No. V Notes Red. [illegible] Plotted Profile
Survey of BEACH EROSION STUDIES Date 6-28-51 Date No.
Survey by F.H.B. Notes Y.B.A. Notes Chkd. [illegible] Checked X-Sec.
Indexed C. Jon Date 7-13-51 Date No.

74L298 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.		
					F.B. 1290-203; F.B. 1184-17; F.B. 1413-208	
333+00	2.7	22.8		20.11	PK. Spk. IN SERVICE RD.	
6' LT			2.4	20.4	TOP Cb	∡ 90°
16 "			2.7	20.1	TOP Bank	
30 "			7.0	15.8	Toe SL.	
52 "			9.9	12.9	BRK	
74 "			10.8	12.0	"	
85 T.P.	2.3	13.8	11.3	11.5	T.P.	
100			3.9	9.9	BRK	
137-T.P.	1.3	6.6	8.5	5.3	T.P.	Water
156 LT			4.7	1.9	BRK	
178 "			5.5	1.1	Ocean	FLOOR
200 "			6.1	0.5	"	"
230 "			7.0	-0.4	"	"
290 "			9.6	-3.0	"	"
350 "			12.1	-5.5	"	"

SHORE
333+00

Profile Notes Red. C.V.C. Plotted _____ Job No. [illegible]
No. _____ Date _____ Date _____ Survey [illegible]
M.Sec. Notes Chkd. [illegible] Checked _____ Survey [illegible]
No. _____ Date 7-23-51 Date _____ Map No. [illegible] Date 7-18-51

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.

125
'8
3 1

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
					F.B. 1184-17; F.B. 1413-215.	
330+50	2.6	22.8		20.19	SPK & T.	IN RD
7 LT			2.3	205	TOP Cb.	SHORE ∡ 90°
16 "			2.5	203	" Bank	
37 "			10.3	125	Toe S.C.	
56' T.P.	2.5	14.1	11.2	116	T.P.	
79' LT.			3.3	108	BRK	
125 T.P.	2.3	6.8	9.6	45	T.P.	Water
157' LT			6.0	08	BRK	
185 "			6.8	00	OCEAN	FLOOR.
243 "			8.8	-20	"	"
283			10.1	-33	"	"
311			11.5	-47	"	"

SHORE
330+50

Profile
No.
X-Sec.
No.
Notes Red. C.V.C. Plotted
Date Date
Notes Chkd. [illegible] Checked
Date 7-23-51 Date
Job No. 8412 Division No.
Survey of BEACH EROSION STUDIES (REDONDO)
Survey by C.V. CRUMLEY Notes C.V.C.
Indexed B. C. Johnson Date 6-29-51

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.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
333+00	328+42	1	R+Y	10:35	90°-06'	
		2	R		88°-58'	
		3	Y		90°-18'	
		4	R+Y	10:40	89°-40'	
		5	R		88°-50'	
		6	Y		89°-11'	
		7	R+Y	10:45	90°-02'	
		8	R		90°-42'	
		9	Y		90°-54'	
		10	R+Y	10:51	91°-55'	
		11	R		89°-53'	
		12	Y		87°-25'	
		13	R+Y	10:55	89°-26'	
		14	R		88°-17'	
		15	Y	11:00	89°-18'	

RANGE
338+00

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. Date ____ Survey of Beach Erosion Studies
No. ____ Date ____ Notes Chkd ____ Checked ____ Survey by E.H.B. Notes J.M. Date 6-28-51
Map No. ____ Indexed C. Johnson Date ____

F.B. [illegible] Pg. 97

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	
330+50	328+42	1	R.Y.	6:51	90°-45		
		2	R.		90°-12		
		3	Y.		90°-46		
		4	R.Y.	6:57.5	91°-17		
		5	R		90°-07		
		6	Y		90°-15		
		7	R+Y	7:01	90°-00		
		8	R		90°-17		
		9	Y		90°-26		
		10	R+Y	7:08	90°-18		
		11	R		90°-05		
		12	Y		90°-03		
		13	R+Y	10:11	90°-50		
		14	R		88°-59		
		15	Y		89°-40		
		16	R+Y	7:15	89°-58		
		17	R		89°-15		
		18	Y	7:16	89°-51		

RANGE 330+50

F.B. 1794 PG. 48

Job No. B412 Division No. V Notes Red. Plotted No. Profile

Survey of Beach Erosion Studies Date Date X-Sec.

Survey by E.H.B. Notes J. Maldonado Notes Chkd. Checked No.

Indexed A. C. Johnson Date 6-29-51 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
328+42	333+00	1	R&Y	10:35	65°54,	
		2	R		65°28,	
		3	Y		63°28.	
		4	R&Y	10:41	61°46.	
		5	R		60°44.	
		6	Y		58°28.	
		7	R&Y	10:44	56°36,	
		8	R		53°23.	
		9	Y		52°29.	
		10	R&Y	10:51	49°25,	
		11	R		°	
		12	Y		44°32,	
		13	R&Y	10:55	42°49	
		~~14~~	~~R~~	~~OUT~~	~~41°20~~	
		14 ~~15~~	R		38°20,	
		15 ~~16~~	Y	11:00	35°30.	

CUT-IN. 333+00

Profile
No. X-Sec.
Notes Rod Plotted Job No. 8412 Division No. Y
Date Date Survey of Beach Erosion Studies
Notes Chkd Checked Survey by F.H.B. Notes M.S. Date 6-28-51
No. Date Date Map No. Traced J. Johnson Date

F.B. 179 Pg. 99

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	
328+42	330+50	1	R & Y	6:51	76°[illegible]	Started June 29th	
		2	R		75°[illegible]4		
		3	Y		75°57		
		4	R & Y	6:57.5	74°07		
		5	R		73°48		
		6	Y		73°21		
		7	R & Y	7:01.5	72°32		
		8	R		70°40		
		9	Y		69°34		
		10	R & Y	7.08.5	69°32		
		11	R		6[illegible]°[illegible]1		
		12	Y		6[illegible]°37		
		13	R & Y	7:11	65°13		
		14	R		64°38		
		15	Y		62°23		
		16	R & Y	7:15	60°10		
		17	R		58°[illegible]8		
		18	Y	7:16	53°[illegible]5		

CUT IN 330+50

F.B. 1744 PG. 100 Job No. 8412 Division No. V Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date 6-29-51 Date X-Sec.
Survey by E 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 333+00		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom Tide		Adj. Depth	Remarks
1	RY	10:36 9.36-S	29.0 27.3 28.1	27.9	2.6	25.3	
2	R		25.9	26.6	2.6	24.0	
3	Y		25.2 24.2	24.5 ~~24.3~~	2.6	21.9 ~~21.7~~	
4	RY	10:40 9.40-S	25.8 22.1 23.2	23.9 ~~23.8~~	2.6	21.3 ~~21.2~~	
5	R		21.8	22.3	2.6	19.7	
6	Y		21.7 20.1	20.6	2.6	18.0	
7	RY	10:44 9.44-S	21.0 19.0	19.7	2.6	17.1	
8	R		18.5 17.0	17.5	2.6	14.9	
9	Y		17.9 15.9	16.6	2.6	14.0	
10	RY	10:52 9.52-S	14.9 13.9	15.3	2.6	12.7	
11	R		12.9 11.8	13.2	2.6	10.6	
12	Y		10.1 11.0	10.7	2.6	8.1	
13	RY	10:56 9.56-S	9.5 9.8	9.7	2.5	7.2	
14	R		7.5	8.3	2.5	5.8 ~~5.8~~	
15	Y	11:00 10.00-S	8.0 6.2	6.8 ~~7.0~~	2.5	4.3 ~~4.5~~	
16	RY						
17	R						

BOAT
333+00

Profile No. ____ Notes Red. Lewis Plotted ____ Date 7-19-51 Job No. 8412 Division No. V
X-Sec. No. ____ Notes Chkd. T.M.J. Checked ____ Date 7-30-57 Survey of BEACH EROSION STUDIES
Survey by F.H.B. Notes F.B. Date 6-28-51
Map No. ____ Indexed Johnson Date ____
F.B. 1294 Pg. 101

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. 1294 Pg. 102 Job No. 8412 Division No. V Notes Red. DCW 7-19-51 Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES Date 6-29-51 Date ____ No. ____
Survey by F.H.B. Notes V.B.A. Notes Chkd. T.M.I. Checked ____ X-Sec. ____
Indexed C. Johnson Date 6-29-51 Date 7-30-51 Date ____ No. ____

STATION 330+50 #	Color	S.S. Time	H.I. Meas. Depth	F.S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1.	RY	6:51 5.51-S.	29 5 27 2 27 8	28.0 ~~27 8~~	3.4	24.6 24.5	
2.	R		26 1 27 7	26 7 ✓	3.4	23.3 ✓	
3.	Y		24 7 26 0	25 7 ✓	3.4	22.3 ✓	
4.	RY	6:58 5.58-S.	23 2 24 8	24 1 ✓	3.5	20.6 ✓	
5.	R		22 1 23 0	23 0 ✓	3.5	19.5 ✓	
6.	Y		21 0 21 8	21 7 ✓	3.5	18.2 ✓	
7.	RY	7:01 6.01-S.	19 9 20 4	20 5 ✓	3.5	17.0 ✓	
8.	R		18 7 19 0	19 3 ✓	3.5	15.8 ✓	
9.	Y		17 5 18 2	18 0 ✓	3.5	14.5 ✓	
10.	RY	7:08 6.08-S.	16 1 16 5	16 8 ✓	3.5	13.3 ✓	
11.	R		14 3 14 1	15 0 ✓	3.5	11.5 ✓	
12	Y		13 0 14 0	13 4 ✓	3.6	9.8 ✓	
13	RY	7:11 6.11-S.	11 9 12 8	12 6 ✓	3.6	9.0 ✓	
14	R		10 8 11 1	11 5 ✓	3.6	7.9 ✓	
15.	Y		9.6 10 6	10 1 ✓	3.6	6.5 ✓	
16.	RY	7:15 6.15-S.	8 5 9 3	9 2 ✓	3.6	5.6 ✓	
17.	R		7 3 8 0	8 0 ✓	3.6	4.4 ✓	
18.	Y	7:17 6.17-S.	6 0	6 7 ✓	3.6	3.1 ✓	BOAT 330+50

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.	
328+45	2.7	241		21.40	F.B. 1290-195; F.B. 1413-216 BT. SPK. & T. 5. Side GROIN #3
9' LT			25	216	Top Cb SHORE ∡ 90°
13 "			25	216	Top Bank
35 "			9.5	146	Toe SL.
57 TP	0.5	131	11.5	126	T.P. ON Rock GROIN enters Sand
85 LT			48	83	BRK.
120' LT			8.3	48	Water
T.P.	4.3	80	9.4	37	T.P. PT. of Rock
146 LT.			6.8	12	BRK.
171 "			84	-04	ocean FLOOR.
214			9.2	-12	" "
245 "			10.5	-25	" "
277 "			11.7	-37	" "

SHORE
328+45

Profile No. ____ Notes Red C.V.C. Plotted ____ Job No. 84/2 Division No. ____ F.B. 1294 No. 113
Date ____ Date ____ Survey of BEACH EROSION STUDIES [illegible]
K.Sec. Notes Chkd. [illegible] Checked ____ Survey by C.V.C. [illegible] Date ____
No. ____ Date 7-23-51 Date ____ Map No. ____ Date ____

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
328+15	2.6	24.0		21.40	F.B. 1290.-193; F.B. 1413-218 BT SPK & T.	N. Side GROIN #3
9 LT			2.3	21.7	Top Cb	SHORE ∡ 90°
17 LT			3.0	21.0	Top Bank	
31 "			8.6	15.4	Toe SL.	
56			11.8	12.2	BRK	
T.P.	0.5	13.0	11.5	12.5	T.P.	
64			2.3	10.7	BRK	
85			5.6	7.4	"	
93			6.8	6.2	"	
100			7.9	5.1	Water	
T.P.	2.1	7.5	7.6	5.4	T.P. Pt. of Rock	
117			6.4	1.1	BRK.	
125			8.5	-1.0	OCEAN	FLOOR
164			8.5	-1.0	"	"
176			8.0	-0.5	"	"
212			8.8	-1.3	"	"
256			10.9	-3.4	"	"
286 LT			11.7	-4.2	"	"

SHORE ~~CUT IN~~ 328+15

F. B. 1294 Pg. 104/26 Job No. 8412 Division No. Notes Red. C.V.C. Plotted Profile
Survey of BEACH & ROSION STUDIES (REDONDO) Date Date No. X-Sec.
Survey by C. CHAMLEY Notes C.V.C. Notes Chkd. PMW Checked
Indexed K. C. Tobiasen Date 6-29-51 Date 7-23-51 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
328+45	330+50	1	R+Y	7:35	89°-24'	
		2	R		88-04	
		3	Y		88°-52'	
		4	R+Y	7:39	89°-54'	
		5	R		89°-56'	
		6	Y		89°-42'	
		7	R+Y	7:43	89°-14'	
		8	R		89°-11'	
		9	Y		88°-30'	
		10	R+Y	7:48	89°-21'	
		11	Y		91°-04'	
		12	R		91°-00'	
		13	R+Y	7:51	91°-00'	
		14	R		90°-53'	
		15	Y		91°-03'	
		16	R+Y	7:53.5	90°-09'	
		17	R		90°-48'	
		18	Y		91°-10'	
		19	R+Y	7:55	91°-32'	

RANGE
328+45

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. Date ____ Date ____ Survey of Beach Erosion Studies
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes J.M. Date 6-29-51
Map No. ____ Date ____ Indexed ____ Date ____

F.B. 1290 Pg. 105

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	
327+00	330+50	1	R+Y	8:12	91°-09'	.	
		2	R		92°-39'	.	
		3	Y		92°-02'	.	
		4	R+Y	8:16.5	91°-05'	.	
		5	R		91°-31'	.	
		6	Y		91°-08'	.	
		7	R+Y	8:19	91°-36'	.	
		8	R		92°-05'	.	
		9	Y		89°-42'	.	
		10	R+Y	8:25	91°-01'	.	
		11	R		91°-01'	.	
		12	Y		90°-03'	.	
		13	R+Y	8:26.5	90°-03'	.	
		14	R		90°-02'	.	
		15	Y		91°-55'	.	
		16	R+Y	8:32	89°-59'	.	

RANGE
327+00

F.B. 1791 PG. 106

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 R. C. Johnson Date 6-29-51 Date ___ 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
330+50	328+45	1	R&Y	7:35	79°13	
		2	R		78°19	
		3	Y		77°08	
		4	R&Y	7:39 5	75°57	
		5	R		75°00	
		6	Y		73°24	
		7	R&Y	7 42 5	73°29	
		8	R		72°15	
		9	Y		72°15	
		10	R&Y	7:48	70°35	
		11	R		68°41'	
		12	Y		66°12'	
		13	R&Y	7:51	63°44'	
		14	R		61°51'	
		15	Y		61°24'	
		16	R&Y	7:53	59°57'	
		17	R		56°49	
		18	Y		53 28	
		19		7 55 5	49 07	

CUT IN
328+45

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

F.B. 1294 Pg. 107

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	
330+50	327+00	1	R & Y	8:12	66°53		
		2	R		63°57		
		3	Y		63°13		
		4	R & Y	8:16.5	6[illegible]°14		
		5	R		61°20		
		6	Y		59°40		
		7	R & Y	8:19	56°41'		
		8	R		54°53		
		9	Y		54°13		
		10	R & Y	8:24.5	5[illegible]°33		
		11	R		50°27		
		12	Y		47°27		
		13	R & Y	8:26.5	45°20		
		14	R		42°38		
		15	Y		39°03		
		16	R & Y	8:31	36°24		

CUT IN 327+00

F.B. 1294 Pg. 108

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

Survey of BEACH EROSION STUDIES Date 6-28-51 Date No. X-Sec.

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

Indexed C. Johnson Date Date 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 328+45

#	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1.	RY	7:35	6.35-S.	290 270 277	277	3.7	24.0	
2.	R			260	266		22.9	
3.	Y			268 248 253	255		21.8	
4.	RY	7:39	6.39-S.	233 245	240	3.7	20.3	
5.	R			220	228		19.1	
6.	Y			227 210 225	216		17.9	
7.	RY	7:43	6.43-S	200 208	208	3.7	17.1	
8.	R			190	~~198~~ 19.6		~~16.1~~ 15.0	
9.	Y			202 180	187		15.0	
10.	RY	7:48	6.48-S.	190 170	177	3.7	14.0	
11.	R			175 159	164		12.7	
12.	Y			158 143	148		11.1	
13.	RY	7:51	6.51-S.	140 121	127	3.7	9.0	
14.	R			125 110	115		7.8	
15.	Y			117 100	106		6.9	
16.	RY	7:54	6.54-S.	110 90	97	3.7	6.0	
17.	R			98 80	86		4.9	
18.	Y			82 68	73		3.6	
19.	RY	7:56	6.56-S	69 53	58	3.7	2.1	

BOAT
328+45

Profile Notes Red. Low Plotted ____ Job No. 8412 Division No. V F. B. 1294 Pg. 109
No. ____ Date 7-19-51 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. T.M.I. Checked ____ Survey by F.H.B. Notes V.B.A. Date 6-20-51
No. ____ Date 7-31-57 Date ____ Map No. ____ Indexed C. 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.

F.B. 1294 Pg. 110 | Job No 8412 Division No. V | Notes Red. LCW Plotted | Profile
Survey of BEACH EROSION STUDIES | Date 6-29-51 Date | No. | X-Sec.
Survey by F.H.B. Notes V.B.A. | Notes Chkd. TM.L Checked | No.
Indexed R. C. Johnson Date 4 | Date 7-31-51 Date

STATION 327+00

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
			29 1				
1	RY	8:12	27 1	27.8	3.7	24.1	
		7 12-5.	27 0				
2	R		25 3	25.9		22.2	
			25 0				
3	Y		23 0	23.7		20.0	
			22 8				
4	RY	8:17	21 8	22.1	3.7	18.4	
		7 17-5.	22 4				
5	R		20 1	20.9		17.2	
			21 0				
6	Y		18 9	19.6		15.9	
			18 3				
7	RY	8:19	16 9	17.4	3.7	13.7	
		7 19-5.	17 0				
8	R		15 3	15.9		12.2	
			16 0				
9	Y		13 9	14.6		10.9	
			14 6				
10	RY	8:25	12 9	13.5		9.8	
		7 25-5.	13 5				
11	R		11 3	12.0	3.7	8.3	
			11 5				
12	Y		10 5	10.6		6.9	
			10 6				
13	RY	8:28	9 0	9.5	3.7	5.8	
		7 28-5	9 8				
14	R		8 0	8.6		4.9	
			8 2				
15	Y		7 0	7.4		3.7	
			7 0				
16	RY	8:31	5 8	6.2	3.7	2.5	
		7-31-5.					

BOAT
327+00

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.

90

STATION	B. S.	H. I.	F. S.	ELEV.		
					F.B. 1290-59, 191; F.B. 1413-225	
327+00	1.4	23.5		22.10	Nail in RD (Ak spk.)	SHORE ∠ 90°
7' LT			1.1	22.4	TOP Cb.	
16 "			1.3	22.2	TOP Bank	
39 "			10.5	13.0	TOE SL.	
42 T.P.	1.6	13.7	11.4	12.1	T.P. BRK.	
68 LT			3.7	10.0	"	
93 T.P.	2.5	8.3	7.9	5.8	T.P. "	
115 LT			6.6	1.7	BRK.	
182 "			8.7	-0.4	OCEAN	FLOOR.
223 "			9.8	-1.5	"	"
270 "			11.3	-3.0	"	"

SHORE
327+00

Profile Notes Red C.V.C. Plotted Job No. [illegible] Division No. 87 F.B. 1294 - 111
No. Date Date Survey of [illegible]
Notes Chkd. [illegible] Checked Survey by C.V.C. Notes [illegible] Date [illegible]
No. Date 7-27-51 Date Map No. [illegible] Date

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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80
180
276

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
					F.B. 1290-184, 59; F.B. 1413-226	
324+00	1.8	22.8		20.98	PK. SPK. 1/4	RD. ∡ 90° - ON 23
4' LT			1.4	21.4	TOP Cb.	SHORE ∡ 90°
7' "			1.7	21.1	TOP Bank	
20 "			9.4	13.4	TOE S.C.	
33 T.P.	2.1	13.2	11.7	11.1	T.P. BRK	
48 LT			3.3	9.9	"	
76' T.P.	2.3	7.9	7.6	5.6	T.P. Water	
102 LT			6.6	1.3	BRK.	
118 "			9.0	-1.1	"	
185 "			10.4	-2.5	OCEAN FLOOR	
226			10.1	-2.2	" "	
276			10.5	-2.6	" "	

SHORE
324+00

F.B. 1294-112 28 Job No. 8412 Division No. Notes Red C.V.C. Plotted Profile
Survey of BEACH EROSION STUDIES (REDONDO) Date Date No.
Survey by L.V. RUMLEY Notes C.V.C. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date 6-29-57 Date 7-23-57 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
324+00	327+00	1	R+Y	8:50 AM	90°34'	
		2	R		91°04'	
		3	Y		91°04'	
		4	R+Y	9:04 "	91°22'	
		5	R		91°45'	
		6	Y		91°19'	
		7	R+Y	9:10 "	92°18'	
		8	R		90°40'	
		9	Y		90°28'	
		10	R+Y	9:15	91°00	
		11	R		90°36'	
		12	Y		90°46'	
		13	R+Y	9:185 "	90°42'	
		14	R		91°00'	
		15	Y		90°55'	
		16	R+Y	9:23 "	91°48	
		17	R		90°22	
		18	Y	9:27	89 50	

RANGE
324+00

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by E.H.B. Notes G.F.E. Date 6-29-51
Date ____ Date ____ Map No. ____ Indexed Job No. ____ Date ____

F.B. 1294 Pg 13

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.

F.B. 1742 PG. 114
Job No. 8412 Division No. V Notes Red Date Plotted
Survey of Beach Erosion Studies Date Checked
Survey by E.H. Blanchard Notes Wallace Notes Chkd Date
Indexed E. C. Johnson Date 2-29-51 Date
Profile No. X-Sec. No.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At	Sight On	# Color	Time	Hor. Ang.		
322+00	319+00	1 R&Y	10:49	99° 29'		
		2 R		99° 51'		
		3 Y		99° 52'		
		4 R&Y	10:53	100° 02'		
		5 R		99° 53'		
		6 Y		99° 29'		
		7 R&Y	10:55	100° 13'		
		8 R		99° 46'		
		9 Y		99° 46'		
		10 R&Y	10:58	99° 25'		
		11 R		99° 43'		
		12 Y		99° 03'		
		13 R&Y	11:00	99° 29'		
		14 R		99° 34'		
		15 Y		99° 16'		
		16 R&Y	11:05	98° 11'		
		17 R				
		18 Y				

RANGE
322+00

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
327+00	324+00	1	8:50	R&Y	69°37'.	
		2		R	67°48.	
		3		Y	67°39.	
		4	9:04	R&Y	66°38.	
		5		R	64 57.	
		6		Y	64°41'.	
		7	9:10	R&Y	62°56.	
		8		R	61°51.	
		9		Y	60°23.	
		10	9:15	R&Y	58°02.	
		11		R	57°18.	
		12		Y	56°05.	
		13	9 18⁵	R&Y	54°24.	
		14		R	53°09.	
		15		Y	51°32.	
		16	9 22⁵	R&Y	49°34.	
		17		R	45°30.	
		18	9 27	Y	41°43.	

CUT IN 324+00

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

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

Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 6-28-51

Date ____ Date ____ Map No. ____ Made by Johnson Date ____

F.B. 1294 Pg. 115

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 Inst. At	STATION Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	[redacted]
319+00	322+00	1	R & Y	10:49	59°40	
		2	R		58°09	
		3	Y		57°19	
		4	R & Y	10:53	56°43	
		5	R		55°36	
		6	Y		55°01	
		7	R & Y	10:55^5	53°47	
		8	R		52°33	
		9	Y		51°06	
		10	R & Y	10:58	49°26	
		11	R		48°40	
		12	Y		46°29	
		13	R & Y	11:00^5	44°34	
		14	R		42°35	
		15	Y		40°44	
		16	R & Y	11:04^5 ~~11:03~~	36°09 ~~39°15~~	
			R			
		18	Y			

CUT IN 322+00

F.B. 1294 PG. 116 Job No. 8412 Division No. V Notes Red. Plotted Date 7-29-51 Date X-Sec. No.
Survey of BEACH EROSION STUDIES Date 7-29-51 Date X-Sec. No.
Survey by F.H.B. Notes M.S. Notes Chkd. Checked Date
Indexed E. C. Johnson 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.

Profile Notes Red Line Plotted Job No. Division No.
No. Date 7-20-57 Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd T.M.L. Checked Survey by Blanchard Notes FHB Date 6-29-57
No. Date 7-31-57 Date Map No. Indexed Johnson Date

F. B. 4294 Pg. 117

STATION		B. S.	H. I.	F. S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom Tide		Adj. Depth	Remarks	
			29.8					
1	R-Y	850	28.0	28.6 ✓	3.7	24.9 ✓		
		7.50-S.	28.1					
2	R		27.0	27.4 ✓		23.7 ✓		
			27.2					
3	Y		25.5	26.1 ✓	3.6	22.5 ✓		
			26.7					
4	R-Y	904	24.6	25.3 ✓	3.6	21.7 ✓		
		8.04-S.	24.5					
5	R		23.0	23.5 ✓		19.9 ✓		
			23.0					
6	Y		21.5	22.0 ✓		18.4 ✓		
			21.2					
7	R-Y	910	19.1	20.3 ✓	3.6	16.7 ✓		
		8.10-S.	19.5					
8	R		18.2	18.6 ✓		15.0 ✓		
			18.1					
9	Y		17.0	17.4 ✓		13.8 ✓		
			16.2					
10	R-Y	915	15.3	15.6 ✓	3.6	12.0 ✓		
		8.15-S.	15.8					
11	R		14.0	14.6 ✓		11.0 ✓		
			13.9					
12	Y		12.7	13.1 ✓		9.5 ✓		
			13.0					
13	R-Y	919	11.4	11.9 ✓	3.6	8.3 ✓		
		8.19-S.	12.3					
14	R		10.1	10.8 ✓	3.5	7.3 ✓		
			11.2					
15	Y		9.1	9.8 ✓		6.3 ✓		
			9.3					
16	R-Y	923	7.8	8.3 ✓	3.5	4.8 ✓		
		8.23-S.	7.7					
17	R		6.5	6.9 ✓		3.4 ✓		
			7.0					
18	Y	927	5.2	5.8 ✓	3.5	2.3 ✓		
		8.27-S.						

Boat 324400

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.

322+00

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R-Y	10 50 9.50-S.	28.2 27.4	27.7	3.1	24.6	
2	R		27.2 26.0	26.4		23.3	
3	Y		25.0 24.5	24.7		21.6	
4	R-Y	10 54 9.54-S.	24.0 22.8	23.2	3.0	20.2 ~~20.5~~	
5	R		22.6 21.0	21.5		18.5	
6	Y		21.3 19.9	20.4		17.4	
7	R-Y	10 56 9.56-S.	20.0 18.5	19.0	3.0	16.0	
8	R		18.5 17.2	17.6		14.6	
9	Y		17.2 15.2	15.9		12.9	
10	R-Y	10 59 9.59-S.	15.1 13.9	14.3	3.0	11.3	
11	R		13.5 12.3	12.7		9.7	
12	Y		11.3 10.5	10.8		7.8 ~~8.8~~	
13	R-Y	11 01 10.01-S.	10.2 9.2	9.5	3.0	6.5	
14	R		9.1 8.1	8.4		5.4	
15	Y		7.9 6.9	7.2 ~~7.3~~		4.2 ~~4.3~~	
16	R-Y	11 05 10.05-S.	5.8 5.0	5.3	3.0	2.3	

BOAT 322+00

F. B. 1294 PG. 118

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

Survey of BEACH EROSION STUDIES Date 7-20-51 Date _____ No. _____

Survey by Blanchard Notes FHB Notes Chkd. T.M.I. Checked _____ X-Sec.

Indexed ~~M. C. Johnson~~ Date 6-29-51 Date 7-31-51 Date _____ No. _____

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
322+00	1.7	22.0		20.27	F.B. 1290-59, 183; F.B. 1413-233 PK. spk.	SHORE ∠ 80° ONS-22
10' LT			1.5	20.5	Top. cb.	
14 "			1.5	20.5	TOP. Bank	
19 "			5.8	16.2	BPK	
30 "			9.1	12.9	"	
44 T.P.	2.3	12.5	11.8	10.2 T.P.	"	
72 LT			6.0	6.5		
80' T.P.	2.8	8.3	7.0	5.5 T.P.		Water
103 LT			6.0	2.3	OCEAN	FLOOR
126 "			9.0	-0.7	"	"
153 "			10.6	-2.3	"	"
180 "			10.0	-1.7	"	"
232			9.7	-1.4	"	"
296			11.6	-3.3	"	"

SHORE
322+00

Profile No. ____ Notes Red. C.V.C. Plotted ____ Job No. 8412 Division No. 29 F.B. 1294 Pg. 179
Date ____ Date ____ Survey of BEACH BRADSON STUDIES (REDONDO)
Notes Chkd. [illegible] Checked ____ Survey [illegible] Date 6-29-51
Date 7-23-51 Date ____ Map No. ____ Date ____

76L298 307 4-50

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

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

90
303

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
						F.B. 1290-58, 176; F.B. 1413-234
319+00	2.7	21.8		19.06		PK. spk & T. in Service RD
8' LT			2.5	19.3		Top Cb (SHORE ∡ 79°
18 "			2.6	19.2		Top Bank ON S-22
33 "			9.3	12.5		Toe SL.
40 "			10.9	10.9		BRK.
48 " T.P.	1.9	12.3	11.4	10.4	T.P.	BRK
82 "			5.1	7.2		BRK
103 T.P.	3.4	7.0	8.7	3.6	T.P.	Water
119 LT			5.6	1.4		BRK.
135 "			7.9	-0.9		ocean FLOOR
185 "			8.3	-1.3		" "
225			10.1	-3.1		" "
288			11.8	-4.8		" "

SHORE
379+88

F.B. 1294 PG 120 | Job No. 8412 Division No. | Notes Red. C.V.C. | Plotted | Profile
Survey of BEACH EROSION STUDIES (REDONDO) | Date | Date | No.
Survey by C.V. CRUMLEY | Notes C.V.C. | Notes Chkd. LCW | Checked | X-Sec.
Indexed E. C. Johnson | Date 7-2-51 | Date 9-13-51 | 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
319+00	322+00	1	R.Y.	11:21	80° 35'.	
		2	R.		80° 37'.	
		3	Y.		78° 52'.	
		4	R.Y.	11:27	79° 21'.	
		5	R.		79° 46'.	
		6	Y.		79° 30'.	
		7	R.Y.	11:32	79° 23'.	
		8	R.		79° 37'.	
		9	Y.		79° 55'.	
		10	R.Y	11:34	79° 22'.	
		11	R.		79° 42'.	
		12	Y.		80° 01'.	
		13	R.Y.	11:36	79° 25'.	
		14	R.		80° 06'.	
		15	Y.	11:39	80° 29'.	
		16	R.Y.			

RANGE
319+00

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 E.R.V. Date 6-29-51
Map No. ____ Date ____ Indexed Johnson Date ____

F.B. 1190 PG. 721

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.

F.B. 1249 PG. 12/19 Job No. 8412 Division No. V Notes Red Plotted
Survey of Beach Erosion Studies Date Date No
Survey by EH Blanchard Notes T Maldonado Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date 7-21-51 Date Date No
Profile

STATION	B. S.	H. I.	F. S.	ELEV.	
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks
315+37 / 3/2+65	1.	R+Y	7:06	90° - 28	
	2	R		90° - 20	
	3	Y		90° - 26	
	4	R+Y	7:12.5	90° - 01	
	5	R		89° - 73	
	6	Y		90° - 35	
	7	R+Y	7:15	89° - 78	
	8	R		89° - 23	
	9	Y		89° - 13	
	10	R+Y	7:18.5	89° - 12	
	11	R		89° - 7	
	12	Y		89° - 4	
	13	R+Y	7:21	89° - 1	
	14	R		89° - 1	
	15	Y		89° - 7	
	16	R+Y	7:24	88° - 3	
	17	R		89° - 12	
	18	Y		89° - 19	
	19	R+Y	7:26	89° - 18	
	20	R	7:27	90° - 4	

RANGE
315+37

FORM 307 10M 10-48

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.

Profile Notes Red ____ Plotted ____ Job No. 3412 Division No. V ____ F.B. 1212 Pg. 122
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by F.H.B. Notes M.S. Date 6-28-51
No. ____ Date ____ Date ____ Map No. ____ Blueprinted Date ____

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Angle	Remarks
322+00	319+00	1	R&Y	11:21	70°21.	
		2	R		69°49.	
		3	Y		71°08.	
		4	R&Y	11:27½	68°55.	
		5	R		67°20.	
		6	Y		66°12.	
		7	R&Y	11:32	64°26.	
		8	R		62°39.	
		9	Y		60°10.	
		10	R&Y	11:34	58°55.	
		11	R		56°30.	
		12	Y		53°04.	
		13	R&Y	11:36	51°28.	
		14	R		47°48.	
		15	Y	11:38	41°20	
		1				

Cut, N
319+00

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	
312+65	315+37	1	R & Y	7:06	69°21		
		2	R		65°33		
		3	Y		64°25		
		4	R & Y	7 12⁵	63°08		
		5	R		62°41		
		6	Y		62°19		
		7	R & Y	7:15	61°36		
		8	R		61°23		
		9	Y		61°19		
		10	R & Y	7:18⁵	60°18		
		11	R		59°03		
		12	Y		58°46		
		13	R & Y	7:21	57°50		
		14	R		55°29		
		15	Y		54°12		
		16	R & Y	7:23⁵	52°56		
		17	R		50°32		
		18	Y		48°43		
		19	R & Y	7:26	43°40		
		20	R	7:27	41°06		

CUT IN 315+37

F.B. 1294 PG. 122-A Job No. 8412 Division No. V Notes Red. Plotted No. Profile
Survey of Beach Erosion Studies Date 7-2-51 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. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	R-Y	11 22	28.0 26.8	27.2	2.9	24.3	
2	R	10.22-S.	26.4 24.9	25.4		22.5	
3	Y		24.4 23.5	23.8		20.9	
4	R-Y	11 29	23.0 21.2	21.8	2.9	18.9	
5	R	10.29-S.	21.0 19.8	20.2		17.3	
6	Y		19.2 18.0	18.4		15.5	
7	R-Y	11 32	17.0 16.1	16.4	2.9	13.5	
8	R	10.32-S.	15.7 14.3	14.8		11.9	
9	Y		14.2 13.0	13.4		10.5	
10	R-Y	11 34	12.6 11.5	11.9 ~~11.8~~	2.9	9.0 ~~8.9~~	
11	R	10.34-S.	11.3 10.1	10.5		7.6	
12	Y		9.9 9.0	9.3		6.4	
13	R-Y	11 36	9.2 7.9	8.3	2.9	5.4	
14	R	10.36-S.	8.2 6.9	7.3		4.4	
15	Y	11 38	7.0 5.4	5.9	2.9	3.0	
		10.38-S.					

BOAT
319+00

Profile Notes Red. RCW Plotted ____ Job No. 8412 Division No. ____ F. Bk. 7294 Pg. 123
No. ____ Date 7-20-51 Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. T.M.I. Checked ____ Survey by FHB Notes FHB Date 6-29-51
No. ____ Date 7-31-51 Date ____ Map No. ____ 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.

F. B. 1294 PG 424 Job No. 8412 Division No. V Notes Red. LCW Plotted _____ Profile _____
Survey of Beach Erosion Studies Date 7-20-51 Date _____ No. _____
Survey by E.H.B. Notes Vollnagle Notes Chkd T.M.I. Checked _____ X-Sec. _____
Indexed R. C. Johnson Date 7-2-51 Date 7-31-51 Date _____ No. _____

STATION 315+37		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R.Y.	7:06 6.06-S.	57.5 55.5 50.7	56.2 ~~55.8~~	2.4	53.8 ~~53.4~~	
2	R.		49.0 40.7	49.6		47.2	
3	Y		38.8 32.2	39.4		37.0	
4	R.Y.	7:12 6.12-S.	29.2 28.3	30.2	2.5	27.7	
5	R.		26.5 27.0	27.1 ~~26.9~~		24.6 ~~24.4~~	
6	Y.		25.5 25.5	26.0		23.5	
7	R.Y.	7:15 6.15-S.	24.0 24.8	24.5	2.5	22.0	
8	R.		22.8 23.2	23.5		21.0	
9.	Y.		21.5 22.0	22.1		19.6	
10	R.Y.	7:19 6.19-S.	20.0 20.0	20.7	2.6	18.1	
11.	R.		18.5 19.0	19.0		16.4	
12.	Y.		17.2 17.9	17.8		15.2	
13.	R.Y.	7:21 6.21-S.	15.8 16.1	16.5	2.6	13.9	
14.	R.		14.0 15.0	14.7		12.1	
15.	Y.		12.5 12.8	13.3		10.7	
16.	R.Y.	7.24 6.24-S.	11.3 11.8	11.8	2.6	9.2	
17.	R		10.0 10.6	10.6		8.0	
18	Y.		8.8 9.0	9.4		6.8	
19.	R.Y.	7:26 6.26-S.	7.3 8.0	7.9	2.7	5.2	
20.	R.	7:27 6.26-S.	6.3	6.9		4.2	

BOAT 315+37

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.		
315+25	2.0	195		17.5	PK. SPK. AT ℄ GROIN #2	F.B. 1443-243 — F.B. 1290-52, 166
315+37±			1.9	17.6	N.E. TIN RD	S. SIDE GROIN #2
9.5' LT			1.8	17.7	TOP Cb	SHORE ∡ 90°
18' "			2.2	17.3	TOP Bank	(SEE F.B. 1413-242)
30 "			5.7	13.8	Toe SL	
54 "			7.0	12.5	BRK	
85 "			11.0	8.5	BRK	
T.P.	0.9	8.8	11.6	7.9	T.P. ON ROCK	
108 LT			6.8	2.0	BRK	
145 "			10.3	-1.5	" OCEAN FLOOR	
193' "			11.4	-2.6	" "	

Note: Page numbers omitted, suffix "B" & "B" added to page 124 —

SHORE
315+25
37±

Profile Notes Red G.V.G. Plotted _____ Job No. [illegible] Division [illegible] F.B. [illegible]
Date _____ Date _____ Survey of [illegible]
Notes Chkd. [illegible] Checked _____ Survey by [illegible] Date [illegible]
No. _____ Date 7-23-51 Date _____ Map No. [illegible] 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.

17.51
2
19.51
2.1
617.4

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
	2.02				F.B. 1290-58, 165; F.B. 1413-244	
315+10 ±	2.1	19.6		17.46	M.S.T. NRD.	N. SIDE GROIN #2
95' LT.			1.9	17.7	TOP Cb.	SHORE ∡ 90°
16 "			1.9	17.7	TOP BANK	
22			3.0	16.6	TOE SL.	
30			5.7	13.9	BRK.	
51			8.7	10.9	BRK.	
65			12.0	7.6		
T.P.	1.5	9.2	11.9	7.7	T.P. ON ROCK	
87' LT.			5.7	3.5	BRK —	Water
100 "			7.3	1.9	OCEAN FLOOR.	
118 "			10.1	-0.9	"	"
167 "			11.0	-1.8	"	"
187 "			11.5	-2.3	"	"
196			11.7	-2.5	"	"

SHORE 315+10

F.B. 1294 Pg. 124-B Job No. 8412 Division No. Notes Red. C.V.C. Plotted Profile
Survey of BEACH EROSION STUDIES. Date Date No.
Survey by C.V.C. Notes C.V.C. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date 7-2-51 Date 7-23-51 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
312+65	315+37	1	R+Y	7:43	86°-45'	
		2	R		86°-42'	
		3	Y		86°-52'	
		4	R+Y	7:47	86°-27'	
		5	R		85°-54'	
		6	Y		86°-12'	
		7	R+Y	7:48	86°-11'	
		8	R		86°-37'	
		9	Y		86°-40'	
		10	R+Y	7:51	86°-57'	
		11	R		85°-15'	
		12	Y		85°-05'	
		13	R+Y	7:55	84°-52'	
		14	R		85°-39'	
		15	Y		86°-35'	
		16	R+Y	8:00	86°-22'	
		17	R		86°-37'	
		18	Y		86°-23'	
		19	R+	8:02	86°-37'	
		20	R		86°-44'	

RANGE
312+65

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

F.B. 1294 Pg. 125

F.B. 1294 PG. 126 | Job No. 8412 | Division No. V | Notes Red. | Plotted T.M.I. | Profile

Survey of Beach Erosion Studies | Date | Date 8-2-51 | No.

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

Indexed A. C. Johnson | Date 7-2-51 | Date | Date | No.

RANGE
312+65

STATION	B.S.	H.I.	F.S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.		Remarks
312+65 315+37	21	Y		86	49	
	22	R+Y	8:04	86	28	

FORM 307 10M 10-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
315+37	312+65	1	R & Y	7:42	68 54	
		2	R		66°56	
		3	Y		65°07	
		4	R & Y	7 46	64°07	
		5	R		64°06	
		6	Y		62°53	
		7	R & Y	7 48	62°49	
		8	R		62°17	
		9	Y		61°07	
		10	R & Y	7 51	59°59	
		11	R		60 17	
		12	Y		60°00	
		13	R & Y	7 55	58°20	
		14	R		55°41	
		15	Y		53°19	
		16	R & Y	8 00	52°12	
		17	R		50 09	
		18	Y		49 31	
		19	R & Y	8:015	46 04	
		20	R		43 15	

CUT IN 312+65

Profile Notes Red. Plotted. Job No. 8412 Division No. V F. B. 1294 Pg. 27
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes M.S. Date 7-2-51
No. Date Date Map No. Indexed Johnson Date

F. B. 1294 Pg. 28 | Job No. 8412 Division No. V | Notes Red | Plotted | Profile

Survey of Beach Erosion Studies | Date 7-2-51 | Date | No.

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

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

76L298 307 4-50

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At OR	#	Color	Time	Hor. Ang.	
CUT IN 312+65	21 22	R & Y	8:04	41°44' 34 25	

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 Notes Red. Plotted Job No. 8412 Division No. V F. B. 1294 Pg. 121
No. Date 7-20-51 Date Survey of Beach Erosion Study
X-Secs. Notes Chkd. T.M.L. Checked Survey by F.M.S. Notes F.M.S. Date
No. Date 7-31-51 Date Map No. Indexed Checked Date

STATION — 312+63		B. S.	H. I.	F. S.	ELEV.		Adj. Depth	Remarks
#	Color	Time	Meas. Depth	Bottom Side				
			51.6					
1.	R.Y.	7:43	50.0	50.5		2.9	47.6	
		6.43-S.	41.3					
2.	R.		39.9	40.4			37.5	
			31.3					
3.	Y.		30.0	30.4			27.5	
			29.0					
4.	R.Y.	7:47	27.0	27.7		3.0	24.7	
		6.47-S.	26.7					
5.	R.		25.5	25.9			22.9	
			25.7					
6.	Y.		24.0	24.6			21.6	
			24.7					
7.	R.Y.	7:49	23.3	23.8		3.0	20.8	
		6.49-S.	24.3					
8.	R.		22.2	22.9			19.9	
			23.2					
9.	Y.		21.0	21.7			18.7	
			21.0					
10.	R.Y.	7:51	19.8	20.4		3.0	17.2	
		6.51-S.	20.5					
11.	R.		18.5	19.2			16.2	
			19.3					
12.	Y.		17.2	17.9			14.9	
			17.1					
13.	R.Y.	7:56	16.0	16.4		3.1	13.3	
		6.56-S.	16.0					
14.	R.		14.8	15.2			12.1	
			14.5					
15.	Y.		13.5	13.8			10.7	
			13.5					
16.	R.Y.	8:00	12.5	12.8		3.1	9.7	
		7.00-S.	13.5					
17.	R.		11.5	12.2			9.1	
			12.0					
18.	Y.		10.5	11.0			7.9	
			10.6					
19.	R.Y.	8:01	9.3	9.7			6.6	
		7.01-S.	10.1					
20.	R.		8.0	8.7			5.6	

BOAT 312+63

F.B. 1294 Pg. 130 Job No. 8412 Division No. V Notes Red. Law Plotted Profile

Survey of Beach Erosion Studies Date 7-20-51 Date No.

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

Indexed A. C. Johnson Date 7-2-51 Date 7-31-51 Date No.

BOAT
312+65

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 3	B.S.	H.I.	F.S.	ELEV.			
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
21	Y		9.5	7.2	3.1	4.1	
22	R.Y.	8:04 0704-S.	6.8 7.0 5.1	5.7	3.2	2.5	

74L298 307 4-50

70'

70 / 15 / 53

PLEASE RETURN TO 130 / 170 / 200

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line. 157

F.B. 1290-58, 169

STATION	B. S.	H. I.	F. S.	ELEV.		F.B. 1413 - ?
312+65	24	197		1734	F.B. 1184-16 PK SPK & T.	SIGHT ON S-20,
8 LT			23	174	TOP Cb	SHORE ∡ 85-52
10 "			26	171	TOP Bank	
20 "			7.9	118	TOE SL.	
40 "			10.0	97	BRK.	
57 T.P.	05	8.4 / 8.4	11.8	79	T.P. Beach	
78 LT			37	47	Water	
98 "			67	17	ocean FLOOR	
109 "			8.8	-04	"	"
142 "			94	-10	"	"
185 "			11.5	-31	"	"

SHORE 312+65

Profile Notes Red C.V.C. Plotted ____ Job No. 8412 Division No. 33 F.B. 1294 No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (RETAINED) No. ____ Notes Chk. ____ Survey by CVC Date 7-23-51 No. ____ Date 7-23-51 Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 4-50

8 176

33

70

33
103

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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.

71
55

141
70
211
196

STATION	B. S.	H. I.	F. S.	ELEV.		
310+65	2.5	207		1817	F.B. 1184-16 PK spk. & T. in RD.	
7 LT			24	183	TOP Cb.	SHORE ∡ 90°
13 "			24	183	TOP Bank	sight on S. RD
26 "			76	131	Toe SL.	
40 "			90	117	BRK	
56 T.P.	0.0	86	121	86	T.P.	
81 LT			39	47	Water	
103 "			72	14		
121 "			96	-10		
162 "			102	-16		
196 "			121	-35		

SHORE
310+65

F.B. 1294 Pg. 132 34 Job No. 8412 Division No. Notes Red C.V.C. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by C.V.C. Notes C.V.C. Checked
Indexed A. O. Johnson Date 7-3-51 Date 7-23-51 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.

Profile Notes Red _____ Plotted _____ Job No. 8412 Division No. V F.B. 174 Pg. 138
No. _____ Date _____ Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. _____ Checked _____ Survey by F.H.B. & C. Notes by J.M. Date 7-2-51
No. _____ Date _____ Date _____ Map No. _____ Indexed Johnson Date _____

STATION	B. S.	H. I.	F. S.	ELEV.	Inst. Sight At / On / # / Color / Time / Hor. Ang.	Remarks
310+65	3:06+65	1	R+Y	8:28	89°-20'	
		2	R		89°-40'	
		3	Y		88°-51'	
		4	R+Y	8:32	88°-25'	
		5	R		88°-40'	
		6	Y		89°-40'	
		7	R+Y	8:38	89°-40'	
		8	R		89°-27'	
		9	Y		89°-42'	
		10	R+Y	8:41	89°-36'	
		11	R		89°-51'	
		12	Y		89°-28'	
		13	R+Y	8:49	89°-58'	
		14	R		89°-00'	
		15	Y		89°-26'	
		16	R+Y	8:53	90°-05'	
		17	R		89°-21'	
		18	Y		88°-27'	
		19	R+Y	8:58	91°-02'	
		20	R	8:57	90°-45'	

RANGE
310+65

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	
308+65	306+65	1.	R+Y	9:14	89 56		
		2.	R		89 [illegible]		
		3.	Y		89 [illegible]		
		4.	R+Y	9:16	89 38		
		5.	R		90 22		
		6.	Y		89 [illegible]		
		7.	R+Y	9:21.5	89 [illegible]		
		8.	R		89 [illegible]		
		9.	Y		89 [illegible]		
		10.	R+Y	9:23	89 31		
		11.	R		89 [illegible]		
		12.	Y		89 [illegible]		
		13.	R+Y	9:24.5	89 [illegible]		
		14.	R		89 [illegible]		
		15.	Y		89 [illegible]		
		16.	R+Y	9:27.5	89 34		
		17.	R		89 8		
		18.	Y		90 25		
		19.	R+Y	9:30	88 [illegible]		
		20.	R		90 10		

RANGE 308+65

Cont pg (~~137~~ No) Pg. 141

F.B. 1294 PG. 134

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

Survey of Beach Erosion Studies Date Date X-Sec.

Survey by F.H. Blanchard Notes J. Maldonado Notes Chkd. Checked No.

Indexed C. Johnson Date 7-2-51 Date Date

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
306+65	310+65	1	R & Y	8:29	52 53		
		2	R		53°36		
		3	Y		51°46		
		4	R & Y	8:31	50°21		
		5	R		51°34		
		6	Y		50°12		
		7	R & Y	8:38	49°26		
		8	R		49°15		
		9	Y		48°18		
		10	R & Y	8:41	46°33		
		11	R		45°45		
		12	Y		45°40		
		13	R & Y	8:48	43°13		
		14	R		41°53		
		15	Y		39°14		
		16	R & Y	8:53	36°31		
		17	R		34°56		
		18	Y		34°07		
		19	R & Y	8:57	29 23		
		20	R	8 59	26 00		

CUT IN
310+65

Profile Notes Red ____ Plotted ____ Job No. 56412 Division No. V
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-2-51
No. ____ Date ____ Date ____ Map No. ____ Indexed Johnson Date ____

F.B. 1294 Pg. 136

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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F. B. 1294 Pg 136 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-2-51 Date No.
Survey by E.H.B. Notes MS Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		Remarks
Inst. At / Sight On	#	Color	Time	Hor. Ang.		
306+65 308+65	1	R & Y	9:10	72°04	.	
	2	R		71°26	.	
	3	Y		69°06	.	
	4	R & Y	9:16	68°06	.	
	5	R		67°40	.	
	6	Y		68°09	.	
	7	R & Y	9:21	67°36	.	
	8	R		66 25	.	
	9	Y		65 15	.	
	10	R & Y	9 23	65 07	.	
	11	R		64°28	.	
	12	Y		63 43	.	
	13	R & Y	9 24	62 57	.	
	14	R		62°25	.	
	15	Y		60°49	.	
	16	R & Y	9 27	59°18	.	
	17	R		58°12	.	
	18	Y		56°13	.	
	19	R & Y	9 30	54°54'	.	
	20	R		51 38	.	

CUT IN 308+65

cont p9 ~~129~~ 143

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 310+65

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	R.Y.	8:29 0729-S.	51.2 48.8	49.6	3.5	46.1	
2.	R.		42.7 39.6	40.6		37.1	
3.	Y.		31.0 29.8	30.2		26.7	
4.	R.Y.	8:32 0732-S.	29.0 27.5	28.0	3.5	24.5	
5.	R.		29.0 26.1	27.1		23.6	
6.	Y.		26.5 24.5	25.2		21.7	
7.	R.Y.	8:38 0738-S.	25.0 23.5	24.0	3.6	20.4	
8.	R.		23.9 22.1	22.7		19.1	
9.	Y.		22.1 20.9	21.3		17.7	
10.	R.Y.	8:41 0741-S	20.8 19.5	19.9	3.6	16.3	
11.	R.		20.2 18.0	18.7	3.6	15.1	
12.	Y.		18.8 16.8	17.5	3.7	13.8	
13.	R.Y.	8:49 0749-S	16.2 15.0	15.4	3.7	11.7	
14.	R.		15.0 13.5	14.0		10.3	
15.	Y.		14.0 12.0	12.7		9.0	
16.	R.Y.	8:53 0753-S	12.5 10.8	11.4	3.7	7.7	
17.	R.		11.5 9.1	9.9		6.2	
18.	Y.		10.2 7.5	8.4		4.7	
19.	R.Y.	8:58 0758-S	9.0 6.0	7.0	3.7	3.3	
20.	R.	8:59 [illegible]-S	7.7 4.7	5.7	3.8	1.9	

BOAT 310+65

Profile Notes Red. RDW Plotted ____ Job No. 8412 Division No. V F.B. 1294 Pg. 137
No. ____ Date 7-20-51 Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.I. Checked ____ Survey by E.H.B. Notes E.R.V. Date 7-2-51
No. ____ Date 7-31-51 Date ____ Map No. ____ Checked 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 308+65 | B. S. | H. I. | F. S. | ELEV.

#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
			52.0				
1	R.Y	9:10 0810-S	50.0 42.0	50.7	3.9	46.8	
2.	R.		39.0 31.7	40.0		36.1	
3.	Y.		30.0 29.2	30.6		26.7	
4.	R.Y.	9:16 0816-S.	27.9 27.7	28.3	3.9	24.4	
5.	R.		26.7 27.0	27.0		23.1	
6.	Y.		25.0 26.0	25.7		21.8	
7.	R.Y	9:21 0821-S.	23.9 24.0	24.6	3.9	20.7	
8.	R.		22.4 23.0	22.9		19.0	
9.	Y.		21.0 21.7	21.7		17.8	
10.	R.Y.	9:23 0823-S	19.6 19.5	20.3	3.9	16.4	
11.	R.		18.0 18.2	18.5		14.6	
12.	Y.		16.9 17.5	17.3		13.4	
13.	R.Y.	9:24 0824-S.	15.5 16.8	16.2	3.9	12.3	
14	R.		14.5 15.0	15.3		11.4	
15.	Y.		13.0 14.3	13.7		9.8	
16.	R.Y	9:27 0827-S.	12.0 13.0	12.8	3.9	8.9	
17	R.		11.0 11.3	11.7	4.0	7.7	
18.	Y.		9.9 11.0	10.4	4.0	6.4	
19	R.Y.	9:30 0830-S.	8.9 10.1	9.6	4.0	5.6	
20	R		7.8	8.6		4.6	

Cont pg [illegible] see Pg 145

BOAT 308+65

Survey of Beach Erosion Studies Job No. 8416 Division No. V Notes Red. Pow. Plotted Date 7-20-51 Profile No.
Survey by F.H.B. Notes Vollnagle Notes Chkd. T.N.L. Checked Date 7-31-51 X-Sec. No.
Indexed B. C. Johnson Date 7-2-51

294 Pg 138

76L298 307 4-50

90

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
308+65	23	21.4		19 05		F.B. 1184-16 PK. SPK. & T. IN RD.
8' LT			2.4	19 0		TOP STEPS SHORE ∡ 90°
15' "			7 2	14 2		Bot, STEPS - Sand SIGHT ON S-20
30' "			8 4	13 0		BRK
60' T.P	0.2	10 0	11 6	9 8	T.P	"
75 LT			1.6	8 4		"
90 "			3 6	6 4		"
101 "			5 3	4 7		Water
120 "			8 4	1 6		BRK.
132 "			10 6	- 0 6		OCEAN FLOOR
175 "			11 7	- 1 7		" "
190 "			11 8	- 1 8		" "
220 "			13 5	- 3 5		" "

SHORE
308+65

Profile Notes Red. C.V.C. Plotted _____ Job No. 8412 Division No. _____ F.B. 1294 Pg. 139
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES.
X-Sec. Notes Chkd. [illegible] Checked _____ Survey by C.V.C. Notes C.V.C. Date 7-3-51
No. _____ Date 7-23-51 Date _____ Map No. _____ Indexed [illegible] 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.

90' 90 66 140 121

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
306+65	2.6	23.6		20.99	F.B. 1184-16 PK. Spk. 3T -	SHORE ∡ 90°
6' LT			2.5	2 1	TOP Cb.	
15 "			2.8	2 [illegible]	TOO Bank	
27 "			8.2	15 1	TOE SL.	
47 "			10.6	[illegible]	BRK.	
54 T.P.	2.2	13.8	12.0	11.6	T.P. "	
84 LT.			5.6	8 2	"	
107 T.P.	2.2	6.9	9.1	4 7	T.P	Water
123 LT			5.2	1 7	BRK.	
141 "			9.2	-2 3	ocean FLOOR	
176			9.0	-2 1	"	"
216			11.2	-4 3	"	"
236 "			12.5	-2 6	"	"

SHORE
306+65

F.B. 1294 Pg. 140 36 Job No. 8412 Division No. Notes Red. C.V.C. Plotted Profile
Survey of BEACH EROSION STUDIES. Date Date No. X-Sec.
Survey by C.V.C. Notes C.V.C. Notes Chkd. [illegible] Checked
Indexed A. C. Johnson Date 7-3-51 Date 7-23-51 Date No.

Profile	Notes Red.	Plotted	Job No. 8412	Division No. V	F.B. 1294	Pg. 121
No.	Date	Date	Survey of Beach Erosion Studies			
X-Sec.	Notes Chkd.	Checked	Survey by F.H.B.	Notes J.M.	Date 7-2-51	
No.	Date	Date	Map No.	Indexed A. C. Johnson	Date	

RANGE
308+65

— ~~OVER~~ —

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STATION	B.S.	H.I.	F.S.	ELEV.	Remarks
Inst. Sight At OH	#	Color	Time	Hor. Ang.	
308+65 306+65	21	Y		88° - 34'	
	22	R+Y	9:33	89 - 51	

761.298 307 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.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
306+65	308+65	1	R+Y	9:42	90° - 16'		
		2	R		90° - 64'	—?	
		3	Y		90° - 13'		
		4	R+Y	9:48	90° - 20'		
		5	R		90° - 46'		
		6	Y		90° - 53'		
		7	R+Y	9:52	89° - 08'		
		8	R		89° - 42'		
		9	Y		89° - 54'		
		10	R+Y	9:55	90° - 32'		
		11	R		90° - 50'		
		12	Y		90° - 09'		
		13	R+Y	9:57	90° - 04'		
		14	R		90° - 03'		
		15	Y		89° - 21'		
		16	R+Y	10:01	89° - 39'		
		17	R		89° - 33'		
		18	Y		89° - 22'		
		19	R+Y	10:03	89° - 21'		
		20	R	10:04	90° - 34'		

RANGE 306+65

F.B. 1294 Pg. 142 Job No. 8412 Division No. Y Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No. X-Sec.
Survey by E.H. Blanchard Notes J. Maldonado Notes Chkd. Checked
Indexed A. C. J. Date 7-2-51 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 OH	#	Color	Time	Hor. Ang.	Remarks	
306+65 308+65	21	Y		51 00		
	22	R & Y	9:32	44°50		

-OVER-

CUT 12
308+65

Profile Notes Red____ Plotted____ Job No. 8412 Division No. V F. B. 1294 Pg. 1/13
No.____ Date____ Date____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd____ Checked____ Survey by F.H.B. Notes M.S. Date 7-2-51
No.____ Date____ Date____ Map No.____ Traced____ Checked____ 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	
308+65	306+65	1	R & Y	9:41	72°48		
		2	R		72°11		
		3	Y		70°42		
		4	R & Y	9 47⁵	70°09		
		5	R		68°52		
		6	Y		68°40		
		7	R & Y	9:52	68°16		
		8	R		67°35		
		9	Y		66°53		
		10	R & Y	9:54	65°07		
		11	R		63°45		
		12	Y		63°12		
		13	R & Y	9 56⁵	61°52		
		14	R		60°30		
		15	Y		59°29		
		16	R & Y	10:00	57°20		
		17	R		55°17		
		18	Y		52°16		
		19	R & Y	10:02⁵	50°33		
		20	R	10:03	43°28		

CUT IN 306+65

F. B. 1294 Pg. 44

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

Survey of BEACH EROSION BEACH Date 7-2-51 Date No.

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

Indexed [illegible] Date Date No.

Profile No.	Notes Red. Lcur.	Plotted	Job No. 8412	Division No. V	F. B. 1294	Pg. 145
	Date 7-20-51	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 7-2-51	
	Date 7-31-51	Date	Map No.	Indexed J[illegible]	Date	

BOAT
308+65

~~OVER~~

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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 308+65 #	Color	B. S. Time	H. I. Meas Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
21	Y.		9.0	7.5	4.0	3.5	
22	RY.	9:33 08 33-5	6.8	6.5		2.5	

761.298 307 4-50

76L298 307 4-50

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Do not extend notes this side of this line.

STATION 306+65		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1.	R.Y.	9:42 0842-S.	51.9 ~~50.0~~ 41.8	50.6	4.0	46.6	
2.	R.		40.0 30.1	40.6		36.6	
3.	Y.		28.5 29.0	29.0		25.0	
4.	R.Y.	9:48 0848-S.	27.0 27.8	27.7	4.1	23.6	
5.	R.		25.8 26.1	26.5		22.4	
6.	Y.		24.7 24.9	25.2		21.1	
7.	R.Y.	9:52 08.52-S.	23.2 23.8	23.8	4.1	19.7	
8.	R.		21.9 22.0	22.5		18.4	
9.	Y.		20.6 21.1	21.1		17.0	
10.	R.Y.	9:55 0855-S.	19.1 20.0	19.8	4.1	15.7	
11.	R.		18.0 18.3	18.7		14.6	
12.	Y.		16.8 17.3	17.3		13.2	
13.	R.Y.	9:57 0857-S.	15.5 16.3	16.1	4.1	12.0	
14.	R.		14.5 15.3	15.1		11.0	
15.	Y.		13.1 14.0	13.8 ~~13.7~~		9.7 ~~9.6~~	
16.	R.Y.	10:01 0901-S.	12.1 13.5	12.7	4.1	8.6	
17.	R.		10.7 12.3	11.6		7.5	
18.	Y.		9.3 10.0	10.3		6.2	
19.	R.Y.	10:03 0903-S.	7.9 7.8	8.6	4.1	4.5	
20.	R.	10:04 0904-S.	6.2	6.7		2.6	

BOAT 306+65

F. B. 1294 Pg. 146 Job No. 8412 Division No. V Notes Red. Rew Plotted _____ Profile
Survey of Beach Erosion Studies Date 7-20-51 Date _____ No. _____
Survey by F.H.B. Notes Vollnagle Notes Chkd. T.M.L. Checked _____ X-Sec.
Indexed A. C. Johnson Date 7-2-51 Date 7-31-51 Date _____ No. _____

76L298 307 4-50

589-152
BM. 12.70

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.		
B.M	3.6	16 3		12.70	B.M. Elev 12.70 - PER F.B. 589-152 BT. SPK. N. END 2ND CONC. STEP FROM BOTTOM S. SIDE REDONDO PIER.	
302+15±			9.1	7 2	1 X 2 IN Sand	SOUTH SIDE
"			8.0	8 3	over 1 X 2	GROIN #1
29 RT			6.3	10 0	BRK	SHORE ∡ 104°-27'
52 "			4.5	11 8	"	SIGHT ON S-19
71 "			3.7	12 6		
7 LT			8.5	7 8	BRK	
23 "			11.0	5 3		
32' T.P.	3 1	7 7	11.7	4 6	T.P. ON ROCK ±.8 ABOVE sand.	
46' LT			5.8	1 9	BRK.	
65 "			8.5	-0 8	OCEAN FLOOR	
105 "			9.8	-2 1	"	
138 "			11 3	-3 6	"	
158 "			12 1	-4 4	"	

SHORE
302+15±

Profile Notes Red C.V.C. Plotted ____ Job No 8412 Division No. 37 F.B. 1294 Pg. 147
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES.
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by C.V.C. Notes C.V.C. Date 7-23-51
No. ____ Date 7-23-51 Date ____ Map No. ____ Indexed [illegible] 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.		
B.M.	3.6	16.3		12.70	B.M. Elev 12.70 F.B. 589-152 BT. SPK. N. END 2ND. CONC. STEP FROM BOTTOM-South SIDE REDONDO PIER.	
T.P.	5.7	10.3	11.7	.5	T.P. ON ROCK.	NORTH SIDE GROIN #1
301+90±			1.0	3	1x2 ON Brush	
20 LT			3.4	9	BRK.	SHORE ∡ 104° - 27' SIGHT ON S-19
35 "			5.6	7		
52 "	5.1	9	8.5	8	T.P. Water	
71 LT			7.5	-	BRK	
77			8.8	- 7		
132 "			9.7	-2		No Fathom-SURF

SHORE
301+90±

Profile
Survey of BEACH EROSION STUDIES (REDONDO). Date
Survey by C.V. CRUMLEY Notes C.V.C. Date 7-5-51
Indexed A. C. Johnson Date 7-23-51
Job No. 8412 Division No. Notes Red. C.V.C. Plotted
Date No.
Notes Chkd. Lewis Checked
Date No.
X-Sec.
Pg. 108 38

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Profile Notes Red_____ Plotted_____ Job No. 8412 Division No. V
No._____ Date_____ Date_____ Survey of Beach, Firestone Study 105
X-Sec. Notes Chkd_____ Checked_____ Survey by F.H.B. Notes T.M. Date 7-2-51
No._____ Date_____ Date_____ Map No._____ Indexed_____ Date_____

F.B. 1294 P.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
	306+19						
302+15	S-19	1	R+Y	10:25	105° - 04'		
		2	R		104° - 25'		
		3	Y		104° - 15'		
		4	R+Y	10:28	104° - 55'		
		5	R		104° - 09'		
		6	Y		103° - 50'		
		7	R+Y	10:34	103° - 27'		
		8	R		103° - 42'		
		9	Y		104° - 07'		
		10	R+Y	10:37	103° - 07'		
		11	R		103° - 41'		
		12	Y		103° - 08'		
		13	R+Y	10:40	104° - 46'		
		14	R		104° - 46'		
		15	Y		103° - 33'		
		16	R+Y	10:44	103° - 34'		
		17	R		104° - 43'		
		18	Y	10:45	104° - 28'		

RANGE
302+15

76L298 307 4-50

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F. B. 4294 Pg. 10 | Job No. 8412 Division No. Y Notes Red. Plotted Profile No.
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 7-3-51 Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
296+65	S-17	1	R+Y	7:13	85° 03'		
		2	R		94° 50'		
		3	Y		85° 13'		
		4	R+Y	7:17	84° 20'		
		5	R		84° 38'		
		6	Y		84° 38'		
		7	R+Y	7:22	85° 11'		
		8	R		85° 25'		
		9	Y		85° 10'		
		10	R+Y	7:26	85° 43'		
		11	R		85° 19'		
		12	Y		84° 24'		
		13	R+Y	7:31	84° 15'		
		14	R		85° 16'		
		15	Y		85° 29'		
		16	R+Y	7:35	86° 17'		
		17	R		85° 29'		
		18	Y		84° 34'		
		19	R+Y	7:37	83° 51'		

RANGE
296+65

37

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	
306+19	302+15	1	R&Y	10:24	45°56	Monument S-19	
		2	R		45°27		
		3	Y		42°34		
		4	R&Y	10:27^5	41°12		
		5	R		41°53		
		6	Y		40°15		
		7	R&Y	10:34	40°02		
		8	R		39°15		
		9	Y		37°19		
		10	R&Y	10:36^5	36°06		
		11	R		34°44		
		12	Y		33°13		
		13	R&Y	10:39^5	31°10		
		14	R		28°32		
		15	Y		26°00		
		16	R&Y	10:43	22°50		
		17	R		18°32		
		18	Y	10:44^5	15 40		

CUT IN
302+15

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V 3 Page 1294 Pg. 157
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by FHB Notes MS Date 7-2-51
No. ____ Date ____ Date ____ Map No. ____ Indexed John Date ____

76L298 307 4-50

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292+65

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
S-18 +104.67	S-17	1	R & Y	7 13	64° 47	
		2	R		64° 15	
		3	Y		62° 30	S-18 L&T in conc. walk
		4	R & Y	7 17	6[illegible] 03	
		5	R		60° 02	
		6	Y		5[illegible]° 35	
		7	R & Y	7 22	57° 57	
		8	R		56 39	fd. Spk & T. Cut-in Transit
		9	Y		5[illegible]° 00	
		10	R & Y	7 26	49° 12	
		11	R		47° 20	
		12	Y		45 09	
		13	R & Y	7 32	40° 53	
		14	R		38° 35	
		15	Y		34° 55	
		16	R & Y	7 35	29° 49	
		17	R		25 07	S-17 C.S. Mon.
		18	Y		22 28	
		19	R & Y	7 37	18 41	

CUT IN 296+65

104.67

N

F.B. 1294 PG 152 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of BEACH Erosion Studies Date 7-3-51 Date No.
Survey by F.H.B. Notes M.S. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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STATION 302+15

#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks
			51.0			
1	RY.	10:24 09.24-S.	50.0 40.5	50.3	4.1	46.2
2	R.		39.5 29.4	39.8 ~~40.5~~		35.7 ~~36.4~~
3	Y.		28.2 27.8	28.6		24.5
4	R.Y.	10:28 0928-S.	26.8 26.5	27.1	4.1	23.0
5	R.		25.0 25.0	25.5		21.4
6	Y.		23.0 23.5	23.7		19.6
7.	R.Y.	10:34 0934-S.	21.5 22.1	22.2	4.1	18.1
8	R.		20.0 20.8	20.7		16.6
9	Y.		18.5 19.0	19.3		15.2
10	R.Y.	10:37 09.37-S.	17.2 17.1	17.8	4.1	13.7
11	R.		15.8 16.3	16.2		12.1
12	Y.		14.7 15.0	15.2		11.1
13	RY.	10:40 09.40-S.	13.0 13.0	13.7	4.1	9.6
14	R.		11.8 11.5	12.2		8.1
15	Y.		10.0 10.1	10.5		6.4
16	R.Y.	10:44 09.44-S	8.5 8.8	9.0 ~~8.5~~	4.1	4.9 ~~5.4~~
17	R.		7.0 7.3	7.6		3.5
18	Y.	10:45 0945-S	5.5	6.1	4.1	2.0
19.	R.Y.	10:				
20.	R.					

BOAT 302+15

Profile Notes Red Rcur Plotted Job No. 8412 Division No. V F.B. 1294 Pg. 153
No. Date 7-20-51 Date Survey of Beach Erosion Studies
Z-Sec. Notes Chkd. T.M.L. Checked Survey by E.H.B. Notes E.R.Y. Date 7-2-51
No. Date 7-31-51 Date Map No. Indexed Date

76L298 300-4-50

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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 296+65		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R.Y.	7:14 0614-S.	31.2 29.6 29.0	30.1	1.8	28.3	
2	R.		27.5 28.2	28.0		26.2	
3	Y.		26.0 26.2	26.7		24.9	
4	RY	7:18 0618-S	24.7 24.9	25.2	1.9	23.3	
5	R.		23.1 23.2	23.7 ~~23.6~~		21.8 ~~21.7~~	
6	Y.		22.0 22.8	22.4		20.5	
7	R.Y.	7:23 0623-S.	20.9 21.6	21.5	2.0	19.5	
8	R		19.7 20.0	20.3		18.3	
9	Y.		18.3 20.0	18.9		16.9	
10	R.Y.	7:27 0627-S.	17.3 17.1	18.2	2.0	16.2	
11	R.		15.9 16.1	16.3		14.3	
12	Y.		14.5 14.8	15.0		13.0	
13	R.Y.	7:33 0633-S	13.1 13.1	13.7	2.1	11.6	
14	R.		11.9 11.9	12.3		10.2	
15	Y.		10.0 10.4	10.6	2.1	8.5	
16	R.Y.	7:36 0636-S.	9.0 9.0	9.5	2.1	7.4	
17	R.		7.5 8.0	8.0	2.2	5.8	
18	Y.		6.4 6.8	6.9		4.7	
19	R.Y.	7:38 0638-S.	5.0	5.6	2.2	3.4	
20	R.						

BOAT 296+65

F. B. 1294 PG. 154

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

Survey of Beach Erosion Studies Date 7-20-51 Date _____ No. _____

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

Indexed E. C. Johnson Date 7-[illegible]-51 Date 7-31-51 Date _____ No. _____

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
296+65	32	23.32		20.07	SQ. SPK. & T. IN BLACK TOP DECK - 5' E. of High BOARD Fence	
T.P. 18' LT	0.2	12.8	10.71	12.61	TOP ROCK ON BRK-Water	
T.P. 33' "	3.4	5.8	10.0	2.4	T.P. Bot. BRK Water	
59 LT			5.5	.03	OCEAN FLOOR	
93 "			6.8	-1.0	" "	
127 "			8.6	-2.8	" "	(INSIDE "HORSE SHOE")

SHORE ∡ 86°-37'
SIGHT ON S-17

SHORE 296+65

Profile Notes Red C.V.C. Plotted ____ Job No. 8412 Division No. ____
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES (REDONDO)
X-Sec. Notes Chkd. [illegible] Checked ____ Survey by C.V.C. Notes C.V.C. Date 7-5-51
No. ____ Date 7-23-51 Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

12.45 PT. of CONC. BLOCK
OPP. 292+65

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

0.249
T= ~~4.016~~

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
292+65	3 81	23 32		19 51	SQ. SPK. & T. IN PARKING LOT PAV.	
LT					W. edge of PARKING LOT & Top of Brk. Water.	SHORE ∡ 76°-01' SIGHT ON S-16
LT.T.P.			10 87	12.45	T.P. - PT. of CONC. BLOCK ON BRK. WATER.	
	8-21-51					7-5-51
" " ℄	44	23 9		19 51	SQ SPK & T. Above	UNABLE TO GET SHORE @ HIGH SURF POUNDING BRK-WATER
23' LT			47	1[illegible] 2	W. edge PAV.	
25 "			40	1[illegible] 9	TOP CON.	
32 "			46	1[illegible] 3	TOP Rubble Fill Top of Sea Wall	
45 T.P.	2 0	14 9	110	[illegible] 9	T.P. PT. of Rock - side of " "	
54 "			117	[illegible] 2	BASE of Sea Wall AT Water	

SHORE 292+65

F. B. 1294 Pg 56 | 46 Job No. 8412 Division No. ____ Notes Red. ____ Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES (REDONDO) Date ____ Date ____ No. ____
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. ____ Checked ____ X-Sec. ____
Indexed I. C. Johnson Date 7- Date ____ Date ____ No. ____

76L298 307 4-50

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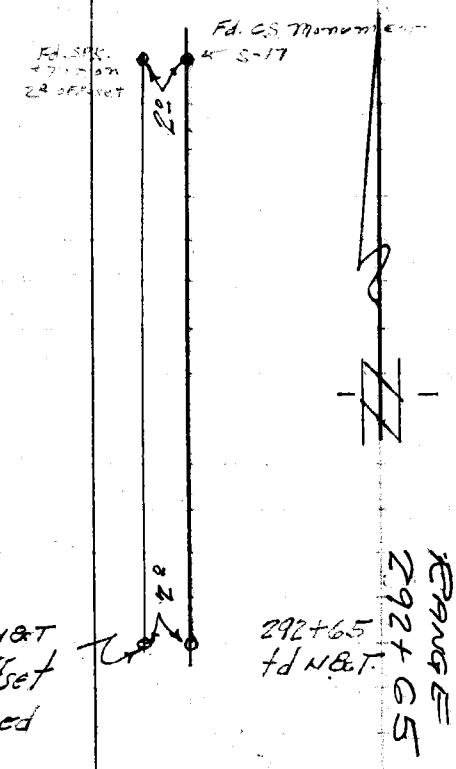
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.
Inst. At	Sight On	#	Color	Time	Hor. Ang.
292+65 2° offset	2° offset S-15	1	R+Y	8:07	105°-02'
		2	R		105°-02'
		3	Y		105°-15'
		4	R+Y	8:10	104°-44'
		5	R		104°-54'
		6	Y		104°-46'
		7	R+Y	8:13	104°-37'
		8	R		104°-13'
		9	Y		104°-13'
		10	R+Y	8:16	104°-42'
		11	R		104-32
		12	Y		103-31
		13	R-Y	8:20	105-46
		14	R		105-03
		15	Y		104°-45'
		16	R+Y	8:23	103°-54'
		17	R		105°-31'
		18	Y	8:26	102°-35'

Remarks



Profile Notes Red. Plotted Job No. 8412 Division No. V
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes J.M. Date 7-3-51
No. Date Date Map No. Indexed J.O. Date

F. B. 1294 Pg. 157

76L298 307 4-50

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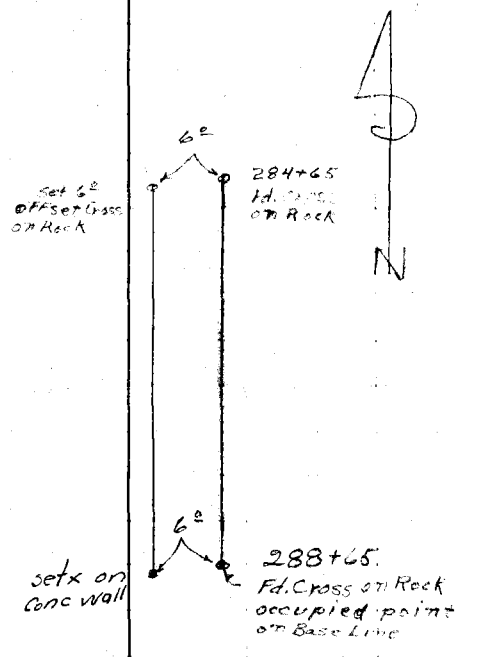
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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. At	STATION Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
288+65	284+65	1	R+Y	8:56	95° - 30'	
		2	R		93° - 51'	
		3	Y		94° - 15'	
		4	R+Y	9:02	94° - 45'	
		5	R		95° - 17'	
		6	Y		93° - 52'	
		7	R+Y	9:06	94° - 10'	
		8	R		94° - 33'	
		9	Y		93° - [illegible]	
		10	R+Y	9:10	93° - 15'	
		11	R		93° - 20'	
		12	Y		93° - 58'	
		13	R+Y	9:12	94° - 23'	
		14	R		93° - 58'	
		15	Y		94° - 33'	
		16	R+Y	9:16	92° - 25'	
		17	R		93° - 21'	
		18	Y	9:17.5	93° - 57'	

RANGE 288+65



F. B. 1294 PG. 158 3

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 C. Johnson Date 7-3-51 Date Date No.

76L298 307 4-50

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LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.	
Inst. Sight At	On	#	Color	Time	Hor. Ang.	Remarks
S15 2'OFF	292+65 2'OFF	1	R & Y	8 07	50°42	Spk.&T. 2° Spk.&T.
		2	R		49°54	292+65 Line-in Transit
		3	Y		49 23	
		4	R & Y	8 10	48°48	
		5	R		47°42	
		6	Y		46°55	
		7	R & Y	8 13	44°54	
		8	R		42°23	
		9	Y		40°53	
		10	R & Y	8 16	39°34	
		11	R		36°30	
		12	Y		32°16	
		13	R & Y	8 20	29°35	
		14	R		26°35	
		15	Y		24 35	Cut-in Transit
		16	R & Y	8 23	22 42	C.S. Mon. S15 2° Spk.&T.
		17	R		18 45	
		18	Y	8 26	16 14	

N

2° Offset Line

CUT IN 292+65

Profile Notes Red. Plotted Job No. 8412 Division No. V 39 R.B. 1294 Pg. 159
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes M.S. Date 7-3-51
No. Date Date Map No. Date

76L398 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.

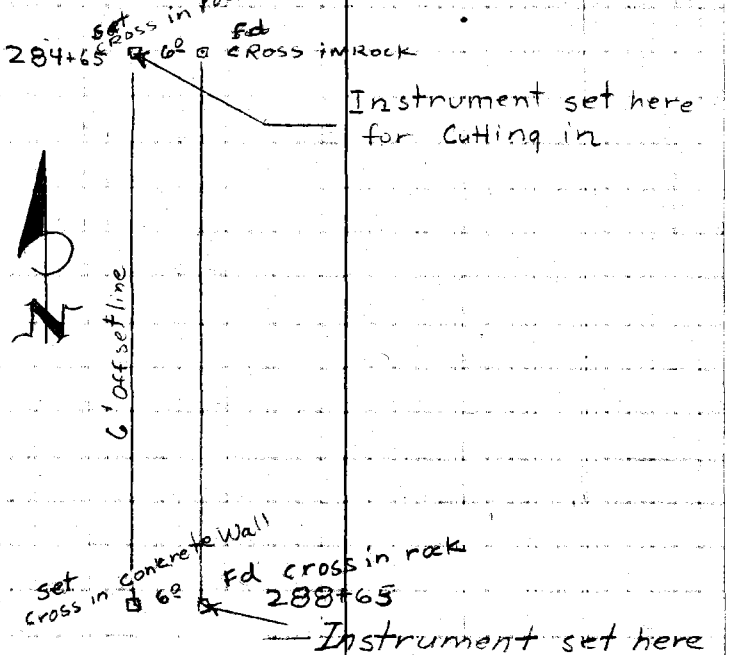
Do not extend notes this side of this line.

Survey of Beach Erosion Studies Job No. 8412 Division No. V Notes Red Date 7-3-51 Plotted 7-11-51 Profile
Survey by E.H.B. Notes M.S. Notes Chkd. Checked Date 8-1-51 No. X-Sec.
Indexed A. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.
Inst. Sight At / On	#	Color	Time	Hor. Ang.
284+65 6' OFF / 288+65 6' OFF	1	R & Y	8:56	59 25
	2	R		55 20
	3	Y		51 22
	4	R & Y	9 02	54 34
	5	R		52 32
	6	Y		52 46
	7	R & Y	9 06	47 03
	8	R		45 42
	9	Y		42 37
	10	R & Y	9:10	38 21
	11	R		34 47
	12	Y		31 18
	13	R & Y	9 12	21 20
	14	R		24 49
	15	Y		18 33
	16	R & Y	9 16	15 47
	17	R		12 12
	18	Y	9 18	9 50

CUT IN 288+65

Remarks



76L298 307 4-50

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

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

Do not extend notes this side of this line.

Profile Notes Red Plotted Job No. 8412 Division No. V F. B. 1294 Pg. 161
No. Date 2-20-57 Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.L. Checked Survey by F.H.B. Notes E.R.V. Date 7-3-57
No. Date 7-3-57 Date Map No. Indexed Date

STATION 29276.5

#	Color	Time	B. S.	H. I. Meas. Depth	F. S. Botton	ELEV. Tide	Adj. Depth	Remarks
				30.0				
1	R.Y.	8:08 0708-S.		28.0 28.5	28.7	2.7	26.0	
2	R.			26.5 26.6	27.2		24.5	
3	Y.			25.3 25.1	25.7		23.0	
4	R.Y.	8:11 0711-S.		24.0 24.0	24.4	2.8	21.6	
5	R.			22.1 22.2	23.2		20.3 ~~20.4~~	
6	Y.			21.3 21.3	21.7		18.9	
7	R.Y.	8:14 0714-S.		20.0 20.3	20.4	2.8	17.6	
8	R.			19.0 18.9	~~12.4~~ 18.6		16.6 ~~15.8~~	
9	Y.			17.5 18.3	18.0		15.2	
10	R.Y.	8:17 0717-S		16.5 17.0	17.1	2.8	14.3	
11	R.			15.2 15.9	15.8		13.0	
12	Y.			13.9 14.1	14.6		11.8	
13	R.Y.	8:21 0721-S		13.5 13.0	13.0	2.9	10.1	
14	R.			11.5 12.5	12.0		9.1	
15	Y.			10.3 11.2	11.0		8.1	
16	R.Y.	8:24 0724-S.		9.0 9.9	9.7	2.9	6.8	
17	R.			7.9 8.3	8.6 ~~7.3~~		5.7	
18	Y.	8:27 0727-S.		6.8	~~7.0~~	3.0	4.0	
19	R.Y.							
20	R.							

Boat 29276.5

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. 1294 Pg. 462

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

Survey of Beach Erosion Studies Date 7-20-51 Date _____ No. _____

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

Indexed C. Johnson Date 7-3-51 Date 7-31-51 Date _____ No. _____

STATION 288+65		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R.Y.	8:57 7.57	30.0 28.0 29.7	28.7	3.3	25.4	
2	R.		27.0 27.3	27.9		24.6	
3	Y.		26.9 26.4	26.4		23.1	
4	R.Y.	9:02 8.02	24.9 25.7	25.4	3.4	22.0	
5	R.		23.7 25.2	24.4		21.0	
6	Y.		22.3 23.5	23.3		19.9	
7	R.Y.	9:07 8.07	21.2 22.3	22.0	3.5	18.5	
8	R.		20.2 20.8	20.9		17.4	
9	Y.		19.1 20.1	19.7		16.2	
10	R.Y.	9:10 8.10	18.0 19.0	18.7	3.5	15.2	
11	R.		16.3 17.2	17.2		13.7	
12	Y.		14.9 15.6	15.7		12.2	
13	R.Y.	9:13 8.13	13.5 15.1	14.2	3.5	10.7	
14	R.		12.3 13.0	13.2		9.7	
15	Y.		11.1 11.9	11.7		8.2	
16	R.Y.	9:17 8.17	9.9 9.5	10.6	3.6	7.0	BOAT 288+65
17	R.		8.3 8.0	8.7		5.1	
18	Y.	9:19 8.19	6.8	7.2	3.6	3.6	
19	R.Y.						
20	R.						

74L298 307 4-50

76-01
13-59

PLEASE RETURN TO
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726 LOS ANGELES COUNTY ENGINEERING BLDG.

11.7 T.P. ON Rock W

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

T=.07

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
288+65	6.5	228		16.26	CROSS ON ROCK	N. of Wall
16' RT			3.9	189	BRK.	(SHORE ∠ 86°-00 SIGHT ON S-15)
43' "			4.3	185	BRK.	
73' "			3 77	190	W. edge THEATRE Walk	
? LT. T.P.			?	117	T.P. — ON ROCK ON BRK. Water — 7-5-51 UNABLE TO GET SHORE — HIGH SURF POUNDING BREAK WATER	
	8	21-51			@	
288+65 ℄	29	192		16 26	E. CROSS ON ROCK ABOVE	
19' LT			26	176	TOP CTR Seq Walk	
31 "			69	123	Side of " "	
37 T.P.	30	110	112	80	T.P.	
41 LT.			89	21	WEST BASE of " "	

288+65 ℄ SHORE

Profile Notes Red. Plotted. Job No. 8412 Division No. 4
No. Date Date Survey of BEACH EROSION STUDIES (REDONDO) R. S. 12794 Pg. 63
X-Sec. Notes Chkd. Checked. Survey by C.W.C. Notes C.W.C. Date 7-
No. Date Date Map No. Indexed Tabulated 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.

11.7 T.P. on Rock, West

T=.07

Do not extend notes this side of this line.

F. B. 1294 Pg. 1/6 42 Profile
Survey of BEACH EROSION STUDIES Job No. 8412 Division No. Notes Red. C.V.C. Plotted No.
Survey by C.V. CRUMLEY Notes C.V.C. Date Notes Chkd. Rev. Checked Date X-Sec. No.
Indexed A. C. Johnson Date 7- Date 7-23-51 Date

STATION	B. S.	H. I.	F. S.	ELEV.		
284+65	10.4	23.6		13.22	CROSS ON ROCK	
3' RT			12.6	11.0	BRK (E. BASE of SEA WALL)	(SHORE ∠ 86°-00' SIGHT ON S-15)
26 "			10.5	13.1	"	
40 "			3.4	20.2	Top BRK.	
58 "			4.3	19.3	"	
131 "			2.8	20.8	BRK	
135 "			1.70	21.9	Back Walk	
140 "			1.65	21.95	Top W. Cb.	
		8-21-51				
	30	16.2		13.72	CROSS on Rock (ABOVE @	UNABLE TO GET SHORE HIGH SURF POUNDING BREAKWATER
11 LT			0.6	15.6	TOP CTR. SEA WALL	
23 " T.P.	3.5	13.1	6.6	9.6	T.P. BRK Side of SE	
35.			11.4	1.7	Water LINE ON SEA WALL	(± 3' UP FROM BASE

SHORE 284+65

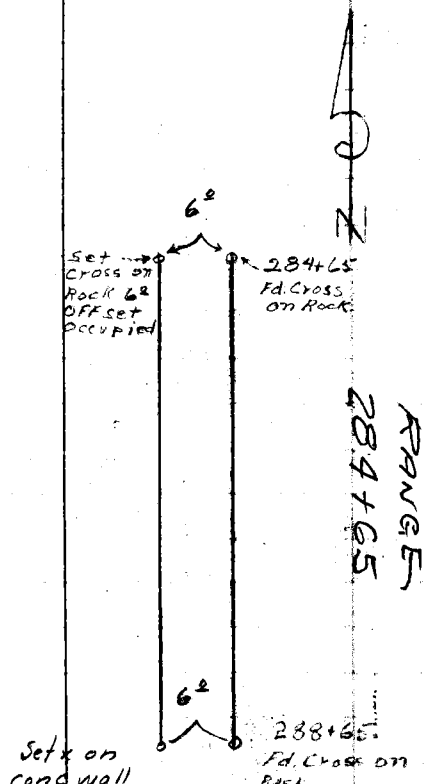
76L298 307 4-50

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
284+65 6° OFFSET	288+65	1	R+Y	9:34	84° - 25'	
		2	R		85° - 54'	
		3	Y		85° - 12'	
		4	R+Y	9:41	84° - 56'	
		5	R		85° - 10'	
		6	Y		85° - 14'	
		7	R+Y	9:48	85° - 27'	
		8	R		85° - 28'	
		9	Y		85° - 28'	
		10	R+Y	9:53	85° - 37'	
		11	R		86° - 54'	
		12	Y		85° - 38'	
		13	R+Y	9:56	86° - 10'	
		14	R		86° - 23'	
		15	Y		86° - 14'	
		16	R+Y	10:00	86° - 05'	
		17	R		88° - 26'	
		18	Y	10:02	88° - 09'	



RANGE 284+65

Profile Notes Red. Plotted Job No. 8412 Division No. V F. B. 1294 Pg 165
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.H.R. Notes J.M. Date 7-3-51
No. Date Date Map No. Checked J. Knox 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	
280+65	276+65	1	R+Y	10:27	85° - 38'		
		2	R		85° - 38'		
		3	Y		85° - 12'		
		4	R+Y	10:32	85° - 10'		
		5	R		84° - 3'		
		6	Y		85° - 11'		
		7	R+Y	10:36	85° - 5'		
		8	R		84° - 44'		
		9	Y		85° - 7'		
		10	R+Y	10:41	84° - [illegible]		
		11	R		84° - [illegible]		
		12	Y		84° - [illegible]		
		13	R+Y	10:49	84° - [illegible]		
		14	R		84° - 8'		
		15	Y		83° - [illegible]		
		16	R+Y	10:51	82° - 11'		
		17	R		82° - 7'		
		18	Y	10:53	82° - 16'		

RANGE 280+65

F. B. 1294 Pg. 166 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F. H. Blanchard Notes J. Maldonado Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date 7-3-51 Date Date No.

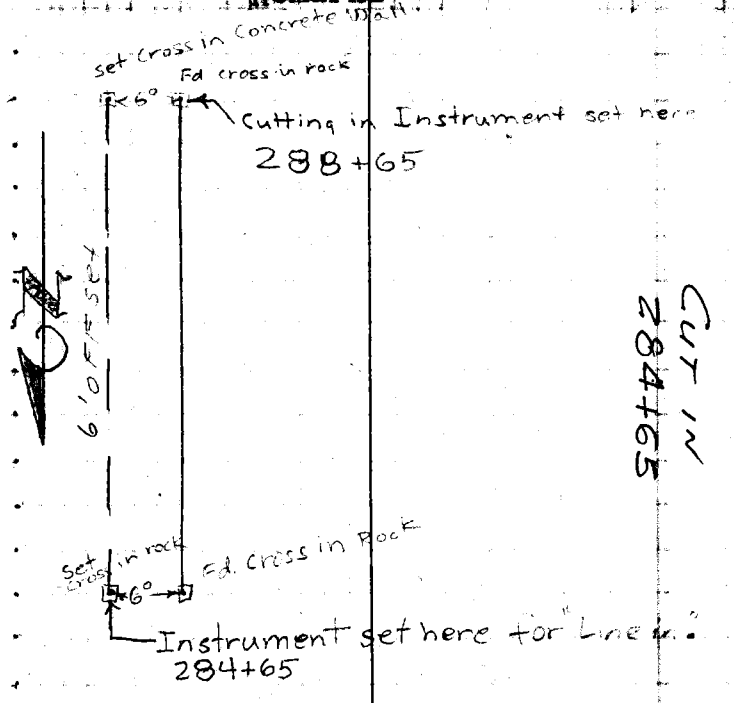
76L298 307 4-50

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		B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. At	Sight On	#	Color	Time	Hor. Ang.	
288+65	284+65	1	R & Y	9:34	72 08	
		2	R		69 18	
		3	Y		68 28	
		4	R & Y	9:41	66 06	
		5	R		62 55	
		6	Y		60 56	
		7	R & Y	9 48	55°12	
		8	R		48°05	
		9	Y		44°23	
		10	R & Y	9 53	41°40	
		11	R		39°06	
		12	Y		32°23	
		13	R & Y	9 56½	28°20	
		14	R		19 32	
		15	Y		17 14	
		16	R & Y	10:00	15 09	
		17	R		12 03	
		18	Y	10 01½	10 37	



Profile Notes Red. Plotted Job No. 8412 Division No. V
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes M.S. Date 7-3-51
No. Date Date Map No. A Indexed Johnson Date

F.B. 1294 Pg. 167

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	
276+65	280+65	1	R & Y	10 27	73° 05		
		2	R		72° 12		
		3	Y		70° 41		
		4	R & Y	10 32	68° 49		
		5	R		67° 34		
		6	Y		64° 23		
		7	R & Y	10 36	61° 32		
		8	R		60° 14		
		9	Y		51° 52		
		10	R & Y	10 44	42° 56		
		11	R		37° 02		
		12	Y		32° 18		
		13	R & Y	10 49	26° 15		
		14	R		21° 08		
		15	Y		19° 04		
		16	R & Y	10 51	16° 45		
		17	R		12° 18		
		18	Y	10 53	9° 07		

CUT 280+65

F. B. 1294 Pg. 168 42 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F.H.B. Notes M.S. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION 284+65 — B. S. — H. I. — F. S. — ELEV.

#	Color	Time	Meas. Depth	Bottom Tide	Adj. Depth	Remarks
			30.0			
1	R.Y.	9:35 0835-S.	28.9 29.2	29.3 ✓ 3.7	25.6 ✓	
2	R.		27.6 27.5	28.1 ✓	24.4 ✓	
3	Y.		26.2 26.8	26.6 ✓ 3.8	22.8 ✓	
4	R.Y.	9:42 0842-S.	25.0 25.7	25.6 ✓ 3.8	21.8 ✓	
5	R.		24.1 24.8	24.6 ✓	20.8 ✓	
6	Y.		23.0 23.1	23.6 ✓	19.5 ✓	
7	R.Y.	9:49 0849-S.	21.6 21.9	22.1 ✓ 3.8	18.3 ✓	
8	R		20.6 20.8	21.0 ✓	17.2 ✓	
9	Y		19.8 20.1	20.1 ✓	16.3 ✓	
10	R.Y.	9:53 0853-S.	18.6 19.8	19.1 ✓ 3.9	15.2 ✓	
11	R.		17.6 18.0	18.3 ✓	14.4 ✓	
12	Y		16.3 17.8	16.9 ✓	13.0 ✓	
13	R.Y.	9:57 0857-S.	15.5 15.1	16.3 ✓ 3.9	12.4 ✓	
14	R.		13.9 14.0	14.3 ✓	10.4 ✓	
15	Y.		12.4 13.7	12.9 ✓	9.0 ✓	
16	R.Y.	10:01 0901-S.	11.4 11.1	12.2 ✓ 3.9	8.3 ✓	
17	R.		10.2 10.1	10.5 ✓	6.6 ✓	
18	Y.	10:02 0902-S.	8.9	9.3 ✓ 3.9	5.4 ✓	
19	R.Y.					
20	R.					

BOAT
284+65

Profile
Notes Red Rewr. Plotted
No. Date 7-20-51 Date
X-Sec. Notes Chkd. T.M.L. Checked
No. Date 7-31-51 Date
Job No. 8412 Division No. V
Survey of Beach Erosion Studies
Survey by F.H.B. Notes E.R.Y. Date 7-3-51
Map No. Indexed J. Johnson Date
F.B. 1294 Pg. 169

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 280+65 | B. S. | H. I. | F. S. | ELEV.

#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	R.Y.	10:27 0927-S.	29.8 28.3 28.0	28.8	4.0	24.8	
2	R.		27.2 28.1	27.5		23.5	
3	Y.		26.2 26.8	26.8		22.8	
4	R.Y.	10:32 0932-S.	25.2 25.9	25.7	4.0	21.7	
5	R.		24.3 24.7	24.8		20.8	
6	Y.		23.2 24.0	23.7		19.7	
7	R.Y.	10:37 0937-S	22.1 23.0	22.7	4.0	18.7	
8	R.		21.1 21.5	21.7		17.7	
9	Y.		19.9 19.9	20.4	4.0	16.4	
10	R.Y.	10:45 0945-S.	18.6 18.9	19.0	4.0	15.0	
11	R		17.0 17.8	17.6		13.6	
12	Y.		15.9 16.0	16.5		12.5	
13	R.Y.	10:50 0950-S.	14.9 14.6	15.3	4.0	11.3	
14	R.		13.0 13.0	13.5		9.5	
15	Y.		11.9 12.0	12.3		8.3	
16	R.Y.	10:52 0952-S.	10.7 10.1	11.1	4.0	7.1	
17	R.		9.2 9.0	9.5		5.5	
18	Y.	10:54 0954-S.	8.0	8.3	4.0	4.3	
19	R.Y.						
20	R						

BOAT 280+65

F. B. 1294 Pg. 170 | Job No. 8412 | Division No. V | Notes Red. Rowe | Plotted | Profile
Survey of Beach Erosion Studies | Date 7-20-51 | Date | No. | X-Sec.
Survey by F.H.B. | Notes Vollnagle | Notes Chkd T.M.I. | Checked
Indexed A. C. Johnson | Date 7-3-51 | Date 7-31-51 | Date | No.

76L398 307 4-50

11.8 T.P. ON Rock W.

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.

T=09

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
280+65	10 9	22 1		11 17	CROSS-ON Rock N. of S-14	
4 RT			124	9 7	BRK (E. BASE of SEAWALL)	(SHORE ∠ 95°-00' SIGHT ON S-14)
65 "			37	18 4	TOP. "	
102 "			15	20 6	BRK	
108 "			134	20.76	Back Walk	
113 "			146	20.64	Top Cb. W. side ST.	
						UNABLE TO GET SHOPE @ HIGH SURF POUNDING BREAK WATER
280+65 ±	6.0	17 2		11 17	CROSS ABOVE	
17' LT			24	148	TOP CTR of SEAWALL	
28 " T.P.	57	13 4	95	77	T.P. side " "	
38 "			152	- 18	W. BASE of SEAWALL	

SHORE 280+65

Profile Notes Red. G.K.C. Plotted Job No. 8412 Division No. 4.3 F. B. 1294 Pg. 177
No. Date Survey of BEACH EROSION STUDIES (REDONDO)
X-Sec. Notes Chkd. G.K.C. Checked Survey by C.V.C. Notes G.K.C. Date 7-
No. Date 7-23-51 Date Map No. Revised 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.

T= .09

8-21-51

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
276+65	59	218		15 93	CROSS ON ROCK	
15' RT			36	18 2	W. edge BLDG.	SHORE ∡ 95°-06 SIGHT ON 5-14
11 LT			51	16 7	TOP SEA WALL	
22 " T.P.	27	195	120	1[illegible] 8	T.P. side of " "	
24 "			99	9[illegible]	Water side of " "	7-5-51 UNABLE TO GET SHORE @ HIGH SURF POUNDING BREAKWATER.
32 "			126	6 9	APPROX. W. BASE " "	

SHORE 276+65

F. B. 1294 Pg. 172 44 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. Checked X-Sec.
Indexed A. C. Johnson Date 8-21-51 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		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
276+65	280+65	1	R+Y	11:12	95° - 20'		
		2	R		93° - 47'		
		3	Y		92° - 36'		
		4	R+Y	11:20	93° - 00'		
		5	R		93° - 58'		
		6	Y		94° - 44'		
		7	R+Y	11:22	96° - 06'		
		8	R		94° - 45'		
		9	Y		96° - 24'		
		10	R+Y	11:26	96° - 34'		
		11	R		91° - 35'		
		12	Y		93° - 56'		
		13	R+Y	11:32	94° - 34'		
		14	R		95° - 15'		
		15	Y		96° - 16'		
		16	R+Y	11:34	94° - 31'		
		17	R		94° - 58'		
		18	Y		96° - 09'		
		19	R+Y	11:36	95° - 25'		
		20	R	11:38	98° - 40'		

RANGE
276+65

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1294 Pg. 17
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.R. Notes J.M.C. Date 7-3-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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Do not extend notes this side of this line.

Pg. 174 Job No. 3412 Division No. X Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by E.H. Blanchfield Notes T. Maldonado Notes Chkd. Checked X-Sec.
Indexed E. C. Johnson Date 7-5-51 Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
272465 268465	1	R-Y	7:04	83 30		
	2	R		84 34		
	3	Y		85 49		
	4	R-Y	7:15	84 32		
	5	R		85 12		
	6	Y		84 07		
	7	R-Y	7:21	84 16		
	8	R		84 52		
	9	Y		84 50		
	10	R-Y	7:25	84 28		
	11	R		86 09		
	12	Y		85 38		
	13	R-Y	7:35	86 25		
	14	R		87 56		
	15	Y		86 04		
	16	R-Y	7:41	86 24		
	17	R	7 43	84 51		

RANGE
272465

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 A. M.	Hor. Ang.		Remarks	
280+65	276+65	1	R≠Y	11 12	65° 02'			
		2	R		64° 15'			
		3	Y		63° 25'			
		4	R≠Y	11 20	61° 01'			
		5	R		58° 29'			
		6	Y		55° 40'			
		7	R≠Y	11 22	51° 52'			
		8	R		49° 06'			
		9	Y		41° 46'			
		10	R≠Y	11 26	36° 52'			
		11	R		32° 52'			
		12	Y		27° 50'			
		13	R≠Y	11 32	25° 41'			
		14	R		23° 12'			
		15	Y		19° 30'			
		16	R≠Y	11 34	18° 12'			
		17	R		14° 48'			
		18	Y		12° 55'			
		19	R≠Y	11 36	11° 20'			
		20	R	11 37	10 16			

Cut in 276+65

Profile Notes Red. Plotted Job No. 8412 Division No. V-3 F. B. 1294 Pg. 125
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by E.H.B. Notes M.S. Date 7-3-51
No. Date Date Map No. Andrew Johnson 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. 1294 Pg. 1/6 | 44 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-5-51 Date No.
Survey by F.H.B. Notes M.S. Notes Chkd. Checked X-Sec.
Indexed — C. Johnston Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
268+65	272+65	1	R & Y	7:04	78 29	
		2	R		7[illegible]	
		3	Y		71 39	
		4	R & Y	7:15	7[illegible]	
		5	R		68° 36	
		6	Y		65° 23	
		7	R & Y	7:21	61° 52	
		8	R		5[illegible] 41	
		9	Y		56 53	
		10	R & Y	7:25	52° 00	
		11	R		45° 26	
		12	Y		35° 15	
		13	R & Y	7:35	31° 30	
		14	R		24° 46	
		15	Y		23° 28	
		16	R & Y	7:41	19° 51	
		17	R	7:43	17 56	

C.L. to C.L.
272+65

FORM 307 5M 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

STATION 276+65

#	Color	B.S. Time	H.I. Meas. Depth	F.S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	R.Y.	11:13 1013-S.	29.9 28.2 28.2	28.8	4.0	24.8.	
2	R.		27.0 26.9	27.4		23.4.	
3	Y.		25.9 25.9	26.2		22.2.	
4	R.Y.	11:20 1020-S.	24.6 24.7	25.0	4.0	21.0.	
5	R.		23.6 24.0	24.0		20.0.	
6	Y.		22.2 22.8	22.8		18.8.	
7	R.Y.	11:22 1022-S.	21.0 21.2	21.6	4.0	17.6.	
8	R.		19.9 20.0	20.3		16.3.	
9	Y.		18.9 19.0	19.3		15.3.	
10	R.Y.	11:27 1027-S.	17.5 17.5	18.0	4.0	14.0.	
11	R.		16.5 16.2	16.8		12.8.	
12	Y.		15.2 15.2	15.5		11.5.	
13	R.Y.	11:33 1033-S.	14.1 14.9	14.5	4.0	10.5.	
14	R.		13.2 13.1	13.8		9.8.	
15	Y		12.2 12.3	12.5		8.5.	
16	R.Y.	11:35 1035-S.	11.1 11.0	11.5	4.0	7.5.	
17	R.		9.9 9.7	10.3		6.3.	
18	Y		8.6 8.7	9.0		5.0.	
19	R.Y.	11:37 1037-S.	7.5 8.0	7.9	4.0	3.9.	
20	R.	11:38 1038-S.	6.2	6.8		2.8.	

BOAT 276+65

Profile No. ____ Notes Red LMW Plotted ____ Job No. 8412 Division No. V F.B. 1748 177
Date 7-20-51 Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd TMI Checked ____ Survey by F.H.B. Notes E.R.V. Date 7-3-51
Date 7-31-51 Date ____ Map No. ____ Indexed ____ Date ____

FORM 307 SM 1-46

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

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

Do not extend notes this side of this line.

Profile No. | X-Sec. No.

Job No. 4822 Division No. V Notes Red. LCM Plotted

Survey of Beach Erosion Studies Date

Survey by E.H.S. Notes Kellogg Notes Chkd. T.M.I. Checked

Indexed E. C. Jenkins Date 7-3-37 Date 7-21-37 Date

STATION 272+65	B. S.	H. I. Meas.	F. S.	ELEV. M.L.T.		
# Color	Time	Depth	Botom	Tide	Adj. Depth	Remarks
		27.0				
1 RY.	7:04	25.1	25.7	0.9	24.8.	
	0604-S.	25.9				
2 R		24.0	24.6	0.9	23.7.	
		25.0				
3 Y		22.9	23.6	1.0	22.6.	
		23.2				
4 RY	7:15	21.9	22.3	1.0	21.3.	
	0615-S.	22.3				
5 R		20.9	21.4	1.0	20.4.	
		22.0				
6 Y		19.9	20.6	1.1	19.5.	
		20.4				
7 RY	7:21	18.7	19.3	1.1	18.2.	
	0621-S.	19.7				
8 R.		17.8	18.4	1.2	17.2.	
		18.2				
9 Y.		16.7	17.2	1.2	16.0.	
		17.7				
10 RY	7:26	15.6	16.3	1.2	15.1.	
	0626-S.	16.9				
11 R.		14.0	15.0	1.2	13.8.	
		14.9				
12 Y		12.3	13.6	1.3	12.3.	
		13.9				
13 RY	7:35	11.9	12.6	1.2	11.2.	
	0635-S.	12.4				
14 R		10.8	11.3	1.3	9.9.	
		12.0				
15 Y.		9.2	10.1	1.5	8.6.	
		10.1				
16 RY	7:41	8.1	8.8	1.5	7.3.	
	0641-S.	9.1				
17 R	7:43	7.1	7.8	1.5	6.3.	
	0643-S.					
18 Y						
19 RY						
20 R						

Boat 272+65

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.

T=09

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
2724 C/L	60	226		16.55	CROSS ON ROCK.	
8 RT			62	164	BRK/	(SHORE ∠ 95°-06' SIGHT ON S-14)
16 "			47	179	W. Edge BLDG.	
7 LT			39	187	TOP OF SEAWALL	7-5- UNABLE TO GET SHORE @ HIGH SURF POUNDING BREAK WATER
15 " T.P	21	127	120	106	T.P. Side " "	
27 "			108	19	Water - (± 3' UP FROM W. BASE of SEA WALL	

SHORE
2724 C/L

Profile Notes Red. Plotted Job No. 8412 Division No. 4 F. B. 1298 PG. 19
No. Date Date Survey of BEACH EROSION STUDIES (REDONDO)
X-Sec. Notes Chkd. Checked Survey by C.K.C. Notes C.K.C. Date 7-
No. Date Date Map No. Traced Johnson Date

76L298 307 4-50

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

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T=.09.

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
268+65	35	21 8		18 32	CROSS ON ROCK	
3' RT			60	18 8	E. BASE SEA WALL	(SHORE ∡ 95°+06' SIGHT ON S-14)
16' "			46	17 2	W. side BLDG.	
6' LT			48	17 0	TOP CTR. SEAWALL	7-5-51 UNABLE TO GET SHORE @ HIGH SURF POUNDING BREAK WATER.
14' " T.P.	47	14 6	119	7 7	T.P. side " "	
23 "			121	5	APPROX BASE of "	

SHORE 268+65

F. B. 1294 Pg. 180 46 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES (REDONDO) Date Date No.
Survey by C.V.C. Notes C.V.C. Notes Chkd. Checked X-Sec.
Indexed R. C. Johnson Date 8-21-51 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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
268+65	272+65	1	R-Y	7:55	92° - 27'	
		2	R		94° - 35'	
		3	R		94° - 00'	
		4	R-Y	8:02	93° - 24'	
		5	R		93° - 16'	
		6	Y		93° - 35'	
		7	R-Y	8:08	96° - 02'	
		8	R		96° - 19'	
		9	Y		96° - 10'	
		10	R-Y	8:12	94° - 49'	
		11	R		95° - 14'	
		12	Y		94° - 50'	
		13	R-Y	8:16.5	95° - 12'	
		14	R		95° - 12'	
		15	Y		95° - 26'	
		16	R-Y	8:20	94° - 55'	
		17	R		94° - 23'	
		18	Y		95° - 35'	
		19	R+Y	8:23.5	97° - 34'	

RANGE
268+65

Profile Notes Red. ____ Plotted ____ Job No. 8442 Division No. V
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.B.B. Notes J.M. Date 7-5-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 12944 Pg. 18

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. 1294 Pg. 127 Job No. 8412 Division No. V Notes Red. Date 7-55 Plotted Date Profile No.
Survey of Beach Erosion Studies Notes Chkd. Checked Date X-Sec. No.
Survey by F.H.B. Notes Date
Indexed E. C. Johnson Date

RANGE
264+65

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
264+65	258+65	1	R&Y	8 52	90 10	
		2	R		89 32	
		3	Y		89 00	
		4	R&Y	8 58	89 55	
		5	R		89 22	
		6	Y		89 06	
		7	R&Y	9 07	89 56	
		8	R		89 37	
		9	Y		89 04	
		10	R&Y	9:10	89 54	
		11	R		89 05	
		12	Y		88 42	
		13	R&Y	9 14	90 10	
		14	R		88 59	
		15	Y		89 28	
		16	R&Y	9 18	89 11	
		17	R		90 16	
		18	Y		89 02	
			R&Y	9 19	18	

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	
272+65	268+65	1	R & Y	7:56	69 50		
		2	R		66 36		
		3	R		65 30		
		4	R & Y	8:03	64 18		
		5	R		62°25		
		6	Y		59°08		
		7	R & Y	8 08	53°32		
		8	R		51°30		
		9	Y		48°45		
		10	R & Y	8 12	44°42		
		11	R		40°43		
		12	Y		38°07		
		13	R & Y	8 17	33°48		
		14	R		29°12		
		15	Y		24°38		
		16	R & Y	8 21	20°50		
		17 ~~18~~	R		16°48		
		18 ~~19~~	Y		15°00		
		19 ~~20~~		8 24	14°00		

CUT IN
268+65

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V 45 F. S. 1294 Pg. 123
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-5-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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

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F. B. 1294 Pg. 184 Job No. 8412 Division No. V Notes Red. Plotted. Profile
Survey of Beach Erosion Studies Date. No.
Survey by EH Blanchard Notes J. Malavenda Notes Chkd. Checked. X-Sec.
Indexed J. C. Johnson Date 7-5-51 Date. Date. No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
258+65	264+65	1	R-Y	8:52	64° 07'		
		2	R		62° 20'		
		3	Y		61° 13'		
		4	R-Y	8:58	56° 51'		
		5	R		54° 10'		
		6	Y		50° 55'		
		7	R-Y	9:06	51° 20'		
		8	R		47° 10'		
		9	Y		44° 36'		
		10	R-Y	9:10	41° 32'		
		11	R		34° 44'		
		12	Y		30° 48'		
		13	R-Y	9:14	27° 00'		
		14	R		24° 21'		
		15	Y		21° 27'		
		16	R-Y	9:17.5	19° 26'		
		17	R		18° 19'		
		18	Y		17° 21'		
		19	R-Y	9:19	15° 26'		

CUT IN 259+92

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 Notes Red. Lower Plotted _____ Job No. 4412 Division No. V F.B. 1294 Pg. 182
No. _____ Date 7-22-57 Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd TM.I. Checked _____ Survey by F.H.R. Notes F.R.V. Date 7-5-57
No. _____ Date 7-31-57 Date _____ Map No. _____ Traced _____ Date _____

STATION 268+65

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			28.0				
1	RY	7:56 0656	26.8 26.9	26.7	1.7	25.0	
2	R		25.1 26.2	25.7	1.7	24.0	
3	R		24.0 24.9	24.7	1.8	22.9	
4	RY	8:02 0702	22.9 22.9	23.6	1.8	21.8	
5	R		21.6 22.7	22.0	1.8	20.2	
6	Y		20.6 20.9	21.3	1.8	19.5	
7	RY	8:08 0708	19.6 20.9	20.0	1.9	18.1	
8	R		18.3 19.4	19.2	1.9	17.3	
9	Y		17.2 18.1	17.9	2.0	15.9	
10	RY	8:12 0712	16.2 16.9	16.8	2.0	14.8	
11	R		15.1 16.3	15.7	2.0	13.7	
12	Y		14.2 14.9	14.9	2.1	12.8	
13	RY	8:17 0717	13.0 13.2	13.6	2.1	11.5	Boat 268+65
14	R		12.0 12.1	12.4		10.3	
15	Y		10.9 11.0	11.3		9.2	
16	RY	8:21 0721	9.8 9.9	10.2	2.1	8.1	
17	R		8.0 8.0	8.6	2.1	6.5	
18	Y		6.9 7.9	7.3	2.2	5.1	
19	RY	8:24 0724	5.7	6.4	2.2	4.2	
20	R						

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 264+65

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	RY	8:52 0752	28.2 27.0 27.0	27.4	2.6	24.8	
2	R		25.9 26.0	26.3	2.6	23.7	
3	Y		24.9 25.0	25.3	2.7	22.6	
4	R.Y	8:58 0758	23.8 23.9	24.2	2.7	21.5	
5	R		22.6 22.2	23.0	2.7	20.3	
6	Y		21.1 21.1	21.5	2.8	18.7	
7	RY	9:06 0806	20.0 19.9	20.4	2.8	17.6	
8	R		18.9 19.0	19.2	2.8	16.4	
9	Y		17.8 18.0	18.2	2.8	15.4	
10	RY	9:10 0810	16.8 16.0	17.2	2.9	14.3	
11	R		15.0 15.0	15.3		12.4	
12	Y		14.0 14.3	14.3		11.4	
13	RY	9:14 0814	13.0 13.0	13.4	2.9	10.5	
14	R		12.0 12.0	12.3		9.4	
15	Y		11.0 11.0	11.3		8.4	
16	R.Y	9:17 0817	10.0 10.0	10.3	2.9	7.4	
17	R		9.0 9.2	9.3		6.4	
18	Y		8.0 8.0	8.4		5.5	
19	RY	9:19 0819	6.9	7.3	2.9	4.4	
20	R						

BOAT 264+65

F. B. 1294 PG. 186

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

Survey of Beach Erosion Studies Date 7-20-51 Date ____ No. ____

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

Indexed B. C. Johnson Date 7-5-51 Date 7-31-51 Date ____ No. ____

764296 307 4-60

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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.		
264+65	1.3	17.80		16.40	NEW PROFILE NOTES- CROSS ON WALK-(HAS SETTLED)	OLD NOTES F.B. 1290-57 = 16.596
28' LT			5.6	12.2		BRK ON ROCKS-
36' "			9.9	7.9		"
56 T.P.	0.6	6.6	11.8	5.9	T.P.	(SHORE ⊥ 90° SIGHT ON S-13)
80' LT			2.6	3.9	BRK	
123 "			7.9	-1.4	" OCEAN	FLOOR
145 "			10.6	-4.1	"	"
188 "			12.6	-6.1	"	"

SHORE
264+65

Profile Notes Red G.K.G. Plotted Job No. 8412 Division No.
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. Checked Survey by G.K.G. Notes G.K.G. Date 7-25-57
No. Date 7-25-57 Date Map No. Indexed Date

76L298 307 4-50

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
262+65	1.9	18 5		16 55	NEW PROFILE NOTES. (F.B.1290-57=16.671; F.B.1184-14=16.63	
5' LT			1.9	16 7	CROSS IN Walk	
8 "			3.5	15 0	TOP Walk	(SHORE ∡ 90° SIGHT ON S-13)
56 "			4.3	14 2	Bapt Sand	
69 "			6.6	12 9	BRK	
95 "			9.0	9 5	"	
122 T.P.	1.1	8 1	11.5	7 0	T.P.	
140 LT			3.3	4 8	BRK	
160 "			5.1	3 0		Water
216 "			9.2	-1 1	Ocean	Floor
227 "			11.9	-7 8	"	
			+3.0	+11.1	TOP OF EDISON Co. BRK. WATER - ON RANGE LINE - TAKE 8-20-51 calc. FROM Elev Page 246	

SHORE 262+65

F. B. 1294 Pg. 188 Job No. 8412 Division No. Notes Red C.V.C. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd [illegible] Checked X-Sec.
Indexed [illegible] Date 7-5-51 Date 7-23-51 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
262+65	258+65	1	R&Y	9:42^5	90°22		
		2	R		90°09		
		3	Y		89°57		
		4	R&Y	9 50	90°10		
		5	R		90°01		
		6	Y		89°57		
		7	R&Y	9:57	90°06		
		8	R		90°03		
		9	Y		90°03		
		10	R&Y	10:07	90°05		
		11	R		89°44		
		12	Y		89°32		
		13	R&Y	10 12^5	89°22		
		14	R		89°30		
		15	Y		89 11		
		16	R&Y	10 18^5	89 27		
		17	R		89 39		
		18	Y		89 52		
		19	R&Y	10 21^5	89 50		
		20	R		89 35		

RANGE
262+65

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-5-41
No. ____ Date ____ Date ____ Map No. ____ Indexed J. Date ____

F.B. 1294 Pg. 189

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	
262+65 258+65	21	Y		89 53		
	22	R & Y	10:28	89 47		
	23	R		89 47		
	24	Y		90°00		
	25	R & Y	10 31	89 41		
	26	R		89 58		
	27	Y		90° 17		
	28	R & Y	10 36	89 54		
	29	R		89 58		
	30	Y		90° 06		
	31	R & Y	10 38	89 41		
	32	R		89 54		
	33	Y	10 39	89 13		

Due to duplicate numbering of pages the following 10 pages suffixed with letter "A"

RANGE
262+65

F. B. 1294 PG. 180 A 48 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-5-51 Date No.
Survey by E H B Notes M.S. Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
258+65	262+65	1	R-Y	9:43	78°-10'		
		2	R		78°-04'		
		3	Y		78°-08'		
		4	R-Y	9:49.5	77°-38'		
		5	R		77°-33'		
		6	Y		77°-40'		
		7	R-Y	9:56.5	77°-21'		
		8	R		77°-21'		
		9	Y		76°-53'	Rod Shots:	
		10	R-Y	10:07	76°-42'	10:07 77° 05' water elev W. edge break water	
		11	R		76°-28'	75° 56' " " E " "	
		12	Y		76°-15'		Top BRK. Water - Page 246
		13	R-Y	10:12	75°-39'		
		14	R		74°-26'		
		15	Y		72°-27'		
		16	R-Y	10:18	70°-37'		
		17	R		69°-05'		
		18	Y		67°-43'		
		19	R-Y	10:21	65°-32'		
		20	R		65°-12'		

CUT IN 262+65

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes J.M. Date 7-5-51
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F.S. 1294 PG. 181A

F. B. 1894 Pg. 124 Job No. 8412 Division No. V Notes Red. Plotted Profile No.
Survey of Beach Erosion Studies Date Date X-Sec. No.
Survey by F.H. Blanchard Notes J. Maldonado Notes Chkd. Checked
Indexed R. C. Johnson Date 7-5-51 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. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
258+65	262+65	21	Y		64- 39		
		22	R-Y	10:28	62- 13		
		23	R		60- 11		
		24	Y		59- 09		
		25	R-Y	10:31	56- 10		
		26	R		49- 25		
		27	Y		49- 20		
		28	R-Y	10:36	37- 14		
		29	R		35- 14		
		30	Y		32- 17		
		31	R-Y	10:38	2- 11		
		32	R		328- 19		
		33	Y	10:39	27- 38		

CUT IN
262+65

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 262+65

#	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	RY	9:43 08 43		32.8 30.8 31.8	31.5	3.3	28.2	
2	R.			29.8 31.8	30.5		27.2	
3	Y.			28.9 30.9	29.9		26.6	
4	RY	9:49 08 49		27.9 28.0	28.9	3.3	25.6	
5	R.			27.0 23.0	27.3	3.3	24.0	
6	Y.			22.0 21.0	22.3	3.4	18.9	
7	RY	9:56 08 56		19.9 14.0	20.3	3.4	16.9	
8.	R			12.8 10.1	13.2	3.4	9.8	
9	Y			9.0 16.0	9.4	3.5	5.9	
10	RY	10:06 09 06		15.0 25.5	15.3	3.6	11.7	
11	R			24.7 30.1	25.0		21.4	
12	Y			29.1 31.2	29.4		25.8	
13	RY	10:12 09 12		30.1 30.9	30.5	3.6	26.9	
14	R			29.1 29.2	29.7	[illegible]	26.1	
15	Y			28.0 27.8	28.4	3.7	24.7	
16	RY	10:18 09 18		26.9 26.3	27.2	3.7	23.5	
17	R			25.5 25.4	25.8		22.1	
18	Y			24.2 23.9	24.6		20.9	
19	RY	10:21 09 21		22.9 22.5	23.2	3.7	19.5	
20	R			21.5	21.8		18.1	

BOAT
262+65

Profile No. ____ Notes Red. RMW Plotted ____ Job No. 84-12 Division No. V F.B. 1294 Pg. 183A
Date 7-20-51 Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. T.M.L. Checked ____ Survey by F.H.B. Notes E.R.K. Date 7-5-54
Date 7-31-57 Date ____ Map No. ____ Indexed Johnson Date ____

76L298 307 4-50

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Profile No. ____ X-Sec. No. ____

Survey of Beach Erosion Studies Job No. 8512 Division No. X Notes Red. Ink Plotted ____

Survey by E.H.B. Notes Kalloway & Date 7-5-51 Notes Chkd T.M.J. Checked ____

Indexed R. C. Johnson Date 7-5-51 Date 7-31-51 Date ____

C.E. 1294 Pg. 184A

STATION #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
			21.1				
21	Y		20.2	20.5	3.7	16.8	
			20.2				
22	RY	10:27	19.1	19.5	3.7	15.8	
		0927	19.0				
23	R		17.9	18.3	3.8	14.5	
			17.9				
24	Y		16.8	17.2	3.8	13.4	
			16.9				
25	RY	10:30	15.7	16.1	3.8	12.3	
		0930	15.9				
26	R		14.2	14.8		11.0	
			14.0				
27	Y		13.0	13.3		9.5	
			13.0				
28	RY	10:35	12.0	12.3	3.8	8.5	
		0935	11.1				
29	R		10.5	10.7		6.9	
			9.4				
30	Y		8.9	9.1		5.3	
			8.1				
31	RY	10:37	7.5	7.7	3.8	3.9	
		0937	6.9			2.4	
	R		6.0	6.3	3.9	2.4	
			6.0			1.4	
	Y	10:39	5.0	5.3	3.9	1.6	
		0939					
	RY						

Boat
262765

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.		
258+65	1.9	18.9		16.9	F.B. 1290-57 CROSS ON WALK	
4' LT			1.9	17.0	Walk	(SHORE ∡ 90° SIGHT ON S-13)
12 "			0.7	18.2	BRK ON BOTTOM	
30 "			2.4	16.5	"	
78 "			4.2	14.7	" "	"
149 "			7.3	11.6	"	"
214 "			7.3	11.6	"	"
285 "			5.8	13.1	"	"
303 "			5.7	13.2	"	"
331 "			9.0	9.9	"	"
357 TP	2.7	9.6	12.0	6.9	T.P. "	"
390 T.P	1.7	5.5	5.8	3.8	T.P. "	"
405 LT			3.1	2.4	Water	
438 "			5.4	0.1	BRK. OCEAN FLOOR	
470 "			8.2	-2.7	"	"
495 "			9.3	-3.8	"	"
515			10.6	-5.1	"	"
545			11.5	-6.0	"	"
			+5.4	+10.9	TOP OF EDISON Co. BRK Water ON RANGE LINE TAKEN 8-20-51 Calc. FROM Elev. PAGE 246	

SHORE 258+65

Profile Notes Red C.V.C. Plotted Job No. 8412 Division No. 49 F.B. 1294 Pg. 18
No. Date Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked Survey by C.V. CRUMLEY Notes C.V.C. Date 7-5-51
No. Date 7-23-51 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.

11.4
4.7
6.7

STATION	B. S.	H. I.	F. S.	ELEV.		
254+65	1.7	19.0		17.25	F.B. 1290-57; F.B. 1184-14 CROSS ON WALK	
4' LT.			1.8	17.2	Walk	SHORE ∡ 90° SIGHT ON S-13
4.5 "			2.1	16.9	Sand	
25 "			2.4	16.6	" BRK	
77 "			5.6	13.4	"	
118 "			7.9	11.1	"	
178 "			9.5	9.5	"	
245			9.9	9.1	"	
285			10.1	8.9	"	
385			10.0	9.0	"	
483			10.0	9.0	"	
552			8.0	11.0	BRK	
570 T.P	2.1	11.4	9.7	9.0	T.P.	
610 LT			6.7	4.7		
625			7.8	3.6	Water	
633 T.P	1.6	4.5	8.5	2.9	T.P.	
675			6.7	-2.2		
690			8.0	-4.0		
712			9.0	-4.5		
725			9.5	-5.0		
745			9.8	-5.3	TOP OF EDISON Co. BRK WATER CALC. FROM EL. ON PG. 246	
			+4.7	+9.2		

SHORE 254+65

F. S. 1294 Pg. 186 Job No. 8412 Division No. ____ Notes Red. C.V.C. Plotted ____ Profile ____
Survey of BEACH EROSION STUDIES Date ____ Date ____ No. ____
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. [illegible] Checked ____ X-Sec. ____
Indexed A. C. Johnson Date 7-5-51 Date 7-23-51 Date ____ No. ____

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
258+65	262+65	1	R & Y	10:58	90°09		
		2	R				
		3	Y		90°10		
		4	R & Y	11:03	90°20		
		5	R		89°59	90 15 } Shots on Rock	water elev.
		6	Y		90 07	90 00 }	
		7	R & Y	11:18	90 42		
		8	R		89 52		
		9	Y		89°54		
		10	R & Y	11:21	90°11		
		11	R		89°57		
		12	Y		89°45		
		13	R & Y	11:30	89°56		
		14	R		89°47		
		15	Y		89°53		
		16	R & Y	11 33	89°57		
		17	R		89°21		
		18	Y		89°46		
		19	R & Y	11 38	90°10		
		20	R		90°05		

RANGE
258+65

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V 49 P.B. 1294 Pg. 187A
No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. ____ Checked ____ Survey by EHB Notes M.S. Date 7-5-51
No. ____ Date ____ Date ____ Map No. ____ Indexed Tolerance Date ____

76L298 307 4-50

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

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

Do not extend notes this side of this line.

F. B. 1294 Pg. 184 50 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-5-51 Date No.
Survey by E.H.B. Notes M.S. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
258+65	262+65	21	Y		88°57'		
		22	R & Y	11:43	89°00'		

RANGE
258+65

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 Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
262+65	258+65	1	R-Y	10:58	78°-33'	
		2	R		78°-23'	
		3	Y		77°-55'	
		4	R-Y	11:03	77°-41'	Rod Shots:
		5	R		77°-17'	11:14 77°-50' Water elev W. edge breakwater
		6	Y		76°-53'	76°-54' " " E. " "
		7	R-Y	11:18	76°-29'	
		8	R		75°-38'	
		9	Y		75°-06'	
		10	R-Y	11:21	74°-08'	
		11	R		70°-28'	
		12	Y		69°-28'	
		13	R-Y	11:30	68°-48'	
		14	R		67°-48'	
		15	Y		66°-32'	
		16	R-Y	11:33	65°-04'	
		17	R		63°-36'	
		18	Y		57°-47'	
		19	R-Y	11:38	54°-58'	
		20	R		52°-02'	

CUT IN 258+65

Profile Notes Red. Plotted Job No. 8412 Division No. Y 49 F. B. 1294 Pg. 489A
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by E.H.B. Notes J.M. Date 7-5-51
No. Date Date Map No. Indexed Johnson Date

F. B. 1244 Pg. 190 | 50

Job No. B412 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 [redacted] Date 7-5-51 Date Date No.

76L298 307 4-56

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.	Remarks
At Sight On	#	Color	Time Hor. Ang.		
262+65	21	1	11:43	50° 5'	
253+65	22			48° 0	

CUT IN
258+65

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 258+65

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	RY	10:57 0957	31.7 28.5 30.3	29.6	3.9	25.7	
2	R		27.5 29.0	28.4	3.9	24.5	
3	Y		26.0 27.2	27.0	4.0	23.0	
4	RY	11:02 1002	25.0 20.5	25.7	4.0	21.7	
5	R		19.5 7.0	19.8	4.0	15.8	
6	Y		6.5 13.0	6.7	4.1	2.6	
7	RY	11:17 1017	12.5 19.5	12.7	4.1	8.6	
8	R		19.0 21.0	19.2	4.1	15.1	
9	Y		20.5 22.5	20.7	4.1	16.6	
10	RY	11:21 1021	22.0 21.5	22.2	4.1	18.1	
11	R		21.0 20.5	21.2	4.1	17.1	
12	Y		20.0 19.0	20.2	4.1	16.1	
13	RY	11:30 1030	18.5 17.5	18.7	4.1	~~17.7~~ 14.6	
14	R		17.0 16.8	17.2	4.1	13.1	
15	Y		16.0 15.9	16.3	4.1	12.2	
16	RY	11:32 1032	15.0 14.9	15.3	4.1	11.2	
17	R		14.0 13.3	14.3	4.1	10.2	
18	Y		12.5 11.9	12.8	4.1	8.7	
19	RY	11:37 1037	11.1 10.1	11.4	4.1	7.3	
20	R		9.5	9.7	4.1	5.6	

BOAT
258+65

Profile No. ____ Notes Red Pen Plotted ____ Job No. 8412 Division No. ✓ F. B. 1394 Pg. 4
Date 7-20-51 Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chk. T. M. L. Checked ____ Survey by E.K.B. Notes E.R.K. Date 7-15-51
Date 7-31-57 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 #	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
21	Y		8.8 8.0	8.3	4.1	4.2	
22	RY	11:42 10 42	7.3 6.5	6.8	4.1	2.7	
	R						
	Y						
	RY						
	R						
	Y						
	RY						
BOAT 258+65							

F.B. 1294 Pg. 192 Job No. 8412 Division No. V Notes Red. Lew. Plotted Profile
Survey of Beach Erosion Studies Date 7-20-51 Date No.
Survey by F.H.B. Notes Vallnagle Notes Chkd. T.M.L. Checked X-Sec.
Indexed A. C. Johnson Date 7-5-51 Date 7-31-57 Date No.

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
254+65	262+65	1	R & Y	12:04	89°44		
		2	R		90°04		
		3	Y		89°24		
		4	R & Y	12:09	89°37		
		5	R		90°03		
		6	Y		89°34		
		7	R & Y	12:14	89°55		
		8	R		89°51		
		9	Y		90°19		
		10	R & Y	12:20	91°25		
		11	R		90°06	90°03 } Shots on Rock @ water level 89°59 }	
		12	Y		90°03		
		13	R & Y	12:36	89 49		
		14	R		89 55		
		15	Y		89 58		
		16	R & Y	12:39	89 56		
		17	R		90°08		
		18	Y		89 50		
		19	R & Y	12 44	89 45		
		20	R		90 16		

RANGE
254+65

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V 57 F. B. 1294 Pg. 193
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-5-56
No. ____ Date ____ Date ____ Map No. ____ Indexed by ____ Date ____

76L298 307 4-50

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

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

Do not extend notes this side of this line.

F. B. 1294 Pg. 92 | 52 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date 7-5-51 Date No.
Survey by Notes Notes Chkd. Checked X-Sec.
Indexed C Johnson Date Date Date No.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
254+65	262+65	21	Y	1245	89°12'		

RANGE
25+65

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	
262+65	254+65	1	R-Y	12:04	66°-40'		
		2	R		66°-30'		
		3	Y		66°-29'		
		4	R-Y	12:09	65°-49'		
		5	R		65°-11'		
		6	Y		65°-14'		
		7	R-Y	12:14	64°-13'		
		8	R		63°-37'		
		9	Y		62°-56'	Rod Shots:	
		10	R-Y	12:19.5	61°-54'	12:21 61°-43' = Water elev. W. edge breakwater	
		11	R		60°-25'	61°-04' = " " E. " " "	
		12	Y		58°-40'		
		13	R-Y	12:36	58°-36'		
		14	R		58°-08'		
		15	Y		57°-40'		
		16	R-Y	12:39	56°-36'		
		17	R		53°-39'		
		18	Y		52°-20'		
		19	R-Y	12:44	49°-25'		
		20	R		46°-32'		

CUT IN 254+65

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V 51 F. B. 1294 Pg. 19
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes J.M. Date 7-5-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

F. B. 1294 Pg. 196 Job No. 8412 Division No. V Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

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

Indexed A. C. Job [redacted] Date 7-5-51 Date Date No.

CUT IN
254+65

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On 262+25 254+65	# 21	Color Y	Time 12:45	Hor. Ang. 41°-19'		Remarks

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.

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 254+65

#	Color	Time	Meas. Depth	Bottom	Tide	Adj.	Depth	Remarks
			30.5	29.2			25.1	
1	RY	12:04	28.5	~~29.4~~	4.1		~~25.3~~	
		11 04	29.5					
2	R		27.5	28.2			24.1	
			28.0					
3	Y		26.0	26.7			22.6	
			26.5					
4	RY	12:09	24.5	25.2	4.1		21.1	
		11 09	25.2					
5	R		23.0	23.7			19.6	
			24.1					
6	Y		22.0	22.7			18.6	
			23.2					
7	RY	12:13	21.0	21.7	4.1		17.6	
		11 13	23.0					
8	R		20.0	21.0			16.9	
			22.2					
9	Y		19.0	20.1			16.0	
			19.0					
10	RY	12:18	17.5	18.0	4.1		13.9	
		11 18	6.5					
11	R		6.0	6.2			2.1	
			7.5					
12	Y		7.0	7.2			3.1	
			8.5					
13	RY	12:35	8.0	8.2	4.1		4.1	
		11 35	10.0					
14	R		9.5	9.7			5.6	
			10.8					
15	Y		10.5	10.6			6.5	
			12.3					
16	RY	12:38	12.0	12.1	4.0		8.1	
		11 38	11.3					
17	R		11.0	11.1			7.1	
			10.2					
18	Y		10.0	10.1			6.1	
			9.0					
19	RY	12:45	8.8	8.9	4.0		4.9	
		11 45	8.1					
20	R		7.8	7.9			3.9	

BOAT
254+65

Profile No. ____ Notes Red. RMT Plotted ____ Job No. 8412 Division No. V F.B. 1394 Pg. 197
Date 7-20-51 Date ____ Survey of Board Erosion Studies
X-Sec. No. ____ Notes Chkd. T.M.I. Checked ____ Survey by E.N.B. Notes ERK Date 7-25-51
Date 7-31-51 Date ____ Map No. ____ Indexed Job Date ____

76L298 307 4-50

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726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
			7.0				
21	Y	12:45	6.5	6.7	3.0	3.7	
22	RY	11:45					
23	R.						
24	Y.						
25	RY						
26	R.						
27	Y						
28	RY						

BOAT
254+65

F. B. 1294 Pg. 198
Job No. 8412 Division No. V Notes Red. Lau Plotted
Survey of Beach Erosion Studies Date 7-20-51 Date No.
Survey by F.H.B. Notes Vallnagle Notes Chkd. T.M.L. Checked X-Sec.
Indexed A. C. Johnson Date 7-5-51 Date 7-31-51 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.

20.4
9.1
11.3
2.4
4.7
2.5
7.2
17.3
13.7
4.7

STATION	B. S.	H. I.	F. S.	ELEV.		
253+10	31	205		17.37	F.B. 1284-12, 109 X ON Walk	
6' LT			32	17.3	edge Walk	(SHORE ∡ 91°-45 SIGHT ON 254+00)
10 "			2.5	18.0	Beach	
18 "			31	17.4	"	
97 "			37	16.8	"	
202 "			76	12.9	"	
285 T.P.	2.4	138	9.1	11.4	T.P. "	
400 LT			22	11.6	BRK	
436 "			48	9.0	"	
450 "			54	8.4		
501 T.P.	2.5	73	90	4.8	T.P. Water	
558 LT			49	2.4	OCEAN	FLOOR
613 "			6.4	0.9	"	"
653 "			7.3	0.0	"	"
702 "			8.5	-1.2	"	"
739			9.7	-2.4	"	"
755			10.5	-3.2	"	"

SHORE
253+10 S

Profile Notes Red C.V.C. Plotted _____ Job No. 8412 Division No. 51 F.B. 1294 Pg. 199
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd. [illegible] Checked _____ Survey by C.V.C. [illegible] Notes C.V.C. Date 7-5-51
No. _____ Date 7-23-51 Date _____ Map No. _____ Indexed [illegible] Date _____

76L298 307 4-50

400

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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.		
250+00	2.0	19.7		17.65	F.B. 1284-12; 110 L.&T. on Walk	
4' LT			2.1	[illegible]	Edge Walk	& Sand.
79' "			3.7	[illegible]	Sand	SHORE ∡ 90°
100 "			4.0	[illegible]	"	
176 "			6.8	[illegible]	"	
246 "			7.9	11.8	"	
285 T.P.	1.9	13.6	8.0	11.7	T.P.	
347			1.4	12.2	BRK	
377			3.6	10.0	"	
397' T.P	1.8	8.5	6.9	6.7	T.P.	
426 LT			3.4	5.[illegible]		Water
482 "			6.3	2.2	OCEAN FLOOR	
525 "			7.3	1.2	"	"
570			8.7	-0.2	"	"
615			9.7	-1.2	"	"
630			10.3	-1.8	"	"

SHORE 250+00 S

F. B. 1294 Pg. 200 | 52 Job No. 8412 Division No. Notes Red C.V.C. Plotted Profile
Survey of BEACH EROSION STUDIES (REDONDO) Date Date No.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. [illegible] Checked X-Sec.
Indexed A. C. Johnson Date 7-5-1 Date 7-23-51 Date No.

76L298 307 4-50

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Profile Notes Red. Plotted Job No. 842 Division No. V F. B. 1394 Pg. 21
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by FHB Notes M.S. Date 7-6-51
No. Date Date Map No. Indexed Date

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
253+10	245+00	1	R & Y	7:06	90°26	
		2	R		89°59	
		3	Y		89°41	
		4	R & Y	7:11	89 57	
		5	R		89 50	
		6	Y		89 53	
		7	R & Y	7 14	89 48	
		8	R		89 48	
		9	Y		89 50	
		10	R & Y	7 18	89 53	
		11	R		89 53	
		12	Y		89 42	
		13	R & Y	7 22	90°00	
		14	R		90°01	
		15	Y		89 57	
		16	R & Y	7 29	90°00	
		17	R		89°57	
		18	Y	7 32	89°59	

RANGE
253+10 S

76L298 307 4-50

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F. B. 1294 Pg. 202 2 Job No. 8412 Division No. V Notes Red Date 7-6-51 Plotted Date No. Profile
Survey of Beach Erosion Studies Notes Chkd. Checked Date No. X-Sec.
Survey by F H B Notes M.S. Date
Indexed C. Johnson Date

RANGE
250+00

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
250+00	240+00	1	R & Y	7:46	90°07	
		2	R		89°59	
		3	Y		89°57	
		4	R & Y	7:50	89°52	
		5	R		90°04	
		6	Y		89°59	
		7	R & Y	7:52	90°09	
		8	R		90°11	
		9	Y		89°59	
		10	R & Y	7:55	90°05	
		11	R		89°56	
		12	Y		90°17	
		13	R & Y	7:57	90°04	
		14	R		89°48	
		15	Y		89°42	
		16	R & Y	8:01	89°50	
		17	R	8:04	89°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	
245+00	253+10	1	R-Y	7:06	65°-25'		
		2	R		65°-25'		
		3	Y		65°-06'		
		4	R-Y	7:11	64°-57'		
		5	R		64-28'		
		6	Y		64°-01'		
		7	R-Y	7:14	63°-42'		
		8	R		63°-05'		
		9	Y		62°-23'		
		10	R-Y	7:18	61°-41'		
		11	R		61°-03'		
		12	Y		60°-20'		
		13	R-Y	7:22	58°-33'		
		14	R		53°-18'		
		15	Y		51-36'		
		16	R-Y	7:29	50°-30'		
		17	R		49°-25'		
		18	Y	7:32	47°-02'		

CUT IN
253+10 S

Profile Notes Red. Plotted T.M.I. Job No. 8412 Division No. V F. B. 1294 Pg. 203
No. Date Date 8-20-51 Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by E.H.B. Notes [illegible] Date 7-6-51
No. Date Date Map No. Indexed [illegible] Date

761298 307 4-50

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Do not extend notes this side of this line.

F. B. 1294 Pg. 204 Job No. 8412 Division No. V Notes Red. Date Plotted Profile
Survey of Beach Erosion Studies Date No.
Survey by E.H. Blanchard Notes J. Maldonado Date Notes Chkd. Checked X-Sec.
Indexed E.C. Johnson Date 7-6-51 Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks
240+00	250+00	1	R-Y	7:47	57-10	
		2	R		57-34	
		3	Y		57-37	
		4	R-Y	7:50	57-20	
		5	R		56-21	
		6	Y		55-20	
		7	R-Y	7:52	54-21	
		8	R		53-20	
		9	Y		52-19	
		10	R-Y	7:55	51-36	
		11	R		50-20	
		12	Y		49-22	
		13	R-Y	7:57	47-36	
		14	R		46-37	
		15	Y		45-39	
		16	R-Y	8:01	42-20	
		17	R	8:01	39-15	

CUT IN 250+00

76L298 307 4-50

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Profile Notes Red. Plotted Job No. 8412 Division No. X F. B. 12994 Pg 20
No. Date 7-20-51 Date Survey of Beach Erosion Study
X-Sec. Notes Chkd. T.M.L. Checked Survey by ERK Notes ERK Date 7-6-51
No. Date 7-31-51 Date Map No. Checked Date

STATION 25+37.05

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
			26.0				
1	RY	7:05	25.0	25.3	0.6	24.7	
		0605	25.2	24.4		23.8	
2	R		24.0	24.5	0.6	23.9	
			24.2				
3	Y		22.9	23.3	0.7	22.6	
			23.3				
4	RY	7:11	21.9	22.4	0.7	21.7	
		0611	22.4				
5	R		21.0	21.5		20.8	
			21.1				
6	Y		19.9	20.3		19.6	
			20.2				
7	RY	7:14	19.0	19.4	0.7	18.7	
		0614	19.0				
8	R		17.6	18.1		17.4	
			18.1				
9	Y		16.5	17.0		16.3	
			16.1				
10	RY	7:17	15.2	15.5	0.7	14.8	
		0617	15.7				
11	R		14.0	14.6	0.7	13.9	
			14.4				
12	Y		12.9	13.4	0.7	12.7	
			13.1				
13	RY	7:22	11.90	12.3	0.8	11.5	
		0622	12.0				
14	R		10.9	11.3	0.8	10.5	
			10.96				
15	Y		9.8	10.1	0.8	9.3	
			9.84				
16	RY	7:28	8.06	8.5	0.9	7.6	
		0628	8.06				
17	R		7.0	7.5		6.6	
			7.5				
18	Y	7:32	9	6.3	0.9	5.4	
		0632					
19	RY						
20	R						

Boat
25+37.05

76L298 307 4-50

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Do not extend notes this side of this line.

STATION 250+00S

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
1	RY	7:46 0646	26.2 25.5 25.1	25.7	1.1	24.6	
2	R		24.0 24.1	24.4		23.3	
3	Y		23.0 23.0	23.4		22.3	
4	RY	7:49 0649	21.9 21.8	22.3	1.1	21.2	
5	R		20.9 20.6	21.2		20.1	
6	Y		19.5 19.0	19.9		18.8	
7	RY	7:52 0652	18.2 18.0	18.5	1.1	17.4	
8	R		17.1 16.8	17.4	1.1	16.3	
9	Y		15.9 15.8	16.2	1.2	15.0	
10	RY	7:54 0654	14.5 14.7	14.9	1.2	13.7	
11	R		13.4 13.7	13.8 ~~13.6~~		12.6 ~~12.4~~	
12	Y		12.1 12.6	12.6		11.4	
13	RY	7:56 0656	11.0 11.1	11.5	1.2	10.3	
14	R		9.9 9.6	10.3	1.2	9.1	
15	Y		8.8 9.1	9.1	1.3	7.8	
16	RY	8:00 0700	7.8 7.9	8.2	1.3	6.9	BOAT 250+00
17	R	8:04 0804	6.8	7.2	1.3	5.9	
18	Y						
19	RY						
20	R						

F. B. 1294 Pg. 206
Job No. 8412 Division No. V Notes Red. LCW Plotted
Survey of Beach Erosion Studies Date 7-20-51 Date No.
Survey by F.H.B. Notes Vollnagle Notes Chkd. T.M.I. Checked X-Sec.
Indexed H. C. Johnson Date 7-6-51 Date 7-31-51 Date No.
Profile

76L298 307 4-50

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Do not extend notes this side of this line.

13.1
27
86

STATION	B. S.	H. I.	F. S.	ELEV.		
245+00	4.0	21.6		17.55	F.B. 1284-12; 123 L.&T. IN Walk	SHORE ∡ 90°
6 Lt			4.1	17.5	Edge Walk	
7 "			4.4	17.2	Sandy -	Beach
61 "			3.1	18.5	BRK - "	"
88 "			4.7	16.9	" "	"
150 Lt			8.3	13.3	" "	"
203 "			9.7	11.9	" "	"
295 T.P.	1.8	13.1	10.3	11.3	T.P.	
335 Lt			7.0	6.1		
355			8.4	4.7		
416	1.6	4.0	10.7	2.4		
437 Lt			2.3	1.7	Water	
505			4.8	-0.8	OCEAN	FLOOR
548			5.8	-1.8	"	"
585			7.4	-3.4	"	"
646			8.7	-4.7	"	"

SHORE
245+00 S

Profile Notes Red C.V.C. Plotted _____ Job No. 8412 Division No. 53 F.B. 1294 Pg. 207
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES (HERMOSA)
X-Sec. Notes Chkd. [illegible] Checked _____ Survey by C.V. CRUMLEY Notes C.V.C. Date 7-6-51
No. _____ Date 7-23-51 Date _____ Map No. _____ Indexed [illegible] Date _____

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STATION	B. S.	H. I.	F. S.	ELEV.		
240+00	3.3	[illegible]		17.10	F.B. 1284-12; -124 L.&T. IN STRAND Walk	
[illegible]			2[illegible]	17.4	edge Walk	SHORE ∡ 90°
[illegible]			[illegible]	17.[illegible]	Beach	
40			18	[illegible]	Wet	
65			[illegible]	[illegible]		
[illegible]			6[illegible]	[illegible]		
137			7.3	[illegible]		
15[illegible]			[illegible]	[illegible]		
231			[illegible]	[illegible]		
25[illegible]			7[illegible]	[illegible]		
275	2.0	9.8	11.9	[illegible]	T.P.	
319			58	4.0		
350 T.P.	2.6	5.0	74	2.4	T.P.	Water
400			47	[illegible]3	Ocean	FLOOR
457			68	-1.[illegible]	"	"
504			87	-3.7	"	"
536			106	-5.6	"	"
570			11.3	-6.3	"	"

SHORE 240+00 S

F. B. 1294 Pg. 208 54 Job No. 8412 Division No. Notes Red. C.V.C. Plotted Profile
Survey of BEACH EROSION STUDIES (HERMOSA) Date Date No.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. [illegible] Checked X-Sec.
Indexed A. C. Johnson Date 7-6-51 Date 7-23-51 Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.	Remarks	
245+00 235+00	1	R & Y	8:16	89°52		
	2	R		89°58		
	3	Y		90°09		
	4	R & Y	8:20	90°11		
	5	R		90°19		
	6	Y		90°13		
	7	R & Y	8:22	90°00		
	8	R		90°19		
	9	Y		89°37		
	10	R & Y	8:24	90°14	✓	
	11	R		90°00		
	12	Y		90°32		
	13	R & Y	8 26	90°11		
	14	R		90°33		
	15	Y		89°57		
	16	R & Y	8:29	90°00		
	17	R		90 12		
	18	Y	8 32	89 44		

RANGE
245+00 S

Profile Notes Red. Plotted Job No. 8412 Division No. V F. B. 1298 Pg. 209
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.H.B. Notes M.S. Date 7-6-51
No. Date Date Map No. Indexed Date

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F. B. 1294 Pg 210 | 4 Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES Date 7-6-51 Date No.
Survey by E.H.B. Notes M.S. Notes Chkd. Checked X-Sec.
Indexed A. C. Johnson Date Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
240+00 S-1-1	1	R & Y	8 45	9[illegible]07		
	2	R		90 22		
	3	Y		90 16		
	4	R & Y	8 48	9[illegible]22		
	5	R		9[illegible]16		
	6	Y		90 08		
	7	R & Y	8 52	90 23		
	8	R		9[illegible]18		
	9	Y		90 24		
	10	R & Y	8 55	90 18		
	11	R		9[illegible]24		
	12	Y		9[illegible]01		
	13	R & Y	8 57	90 14		
	14	R		90 14		
	15	Y		90 08		
	16	R & Y	8 59	90 39		
	17	R		90 23		
	18	Y	9 04	90 15		

RANGE 240+00

76L298 307 4-50

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Profile Notes Red. Plotted Job No. 8412 Division No. V F. B. 1294 Pg. 211
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.M.B. Notes J.M. Date 7-6-51
No. Date Date Map No. Indexed Checked Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
235+00	245+00	1	R-Y	8:16	56°-40'	.	
		2	R		55°-42'	.	
		3	Y		54°-31'	.	
		4	R-Y	8:20	52°-40'	.	
		5	R		51°-35'	.	
		6	Y		50°-16'	.	
		7	R-Y	8:22	47°-21'	.	
		8	R		47°-15'	.	
		9	Y		46°-13'	.	
		10	R-Y	8:24	45°-24'	.	
		11	R		44°-44'	.	
		12	Y		44°-09'	.	
		13	R-Y	8:27	43°-07'	.	
		14	R		41°-41'	.	
		15	Y		40°-32'	.	
		16	R-Y	8:29	38°-12'	.	
		17	R		36°-31'	.	
		18	Y	8:33	32°-20'	.	

CUT IN 245+00 S

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STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
S-11	240+00	1	R-Y	8:45	[illegible]		
		2	R		56 [illegible]		
		3	Y		5[illegible]		
		4	R-Y	8:47	[illegible]		
		5	R		5[illegible]		
		6	Y		[illegible]		
		7	R-Y	8:53	[illegible]		
		8	Y		[illegible]		
		9	Y		[illegible]		
		10	R-Y	8:55	[illegible] 07		
		11	R		45 [illegible]		
		12	Y		[illegible]		
		13	R-Y	8:57	[illegible]		
		14	R		45 - 07		
		15	Y		[illegible]		
		16	R-Y	8:[illegible]	[illegible]		
		17	R		[illegible]		
		18	Y	[illegible]	[illegible]		

CUT IN 240+00

F. B. 1294 Pg. 212

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

Survey of Beach Erosion Studies Date Date No.

Survey by F. A. Blanchard Notes J. Maldonado Notes Chkd. Checked X-Sec.

Indexed R. C. Johnson Date 7-6-51 Date Date No.

76L298 307 4-50

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Do not extend notes this side of this line.

STATION 245+00S

#	Color	Time	Meas. Depth	Bottom	Tide	Adj. Depth	Remarks
1	RY	8:16 0716	27.1 26.0 26.4	26.4	1.6	24.8	
2	R		24.9 25.8	25.4	1.6	23.8	
3	Y		23.8 23.4	24.5	1.7	22.8	
4	RY	8:19 0719	22.6 23.3	22.9	1.7	21.2	
5	R		21.2 21.8	21.9		20.2	
6	Y		20.0 20.4	20.6		18.9	
7	RY	8:21 0721	18.9 18.5	19.4	1.8	17.6	
8	R		17.4 17.5	17.8		16.0	
9	Y		15.9 15.7	16.4		14.6	
10	RY	8:23 0723	14.8 15.0	15.1	1.8	13.3	
11	R		13.9 13.4	14.3		12.5	
12	Y		12.6 12.7	12.9		11.1	
13	RY	8:26 0726	11.5 11.5	11.9	1.8	10.1	
14	R		10.4 10.6	10.8		9.0	
15	Y		9.3 9.9	9.7		7.9	
16	RY	8:29 0729	8.2 8.1	8.8	1.9	6.9	
17	R		7.0 7.3	7.4 ~~7.6~~		5.5 ~~5.7~~	
18	Y	8:32 0732	5.9	6.4	1.9	4.5	
19	RY						
20	R						

BOAT
245+00S

Profile
No. ____ Date 7-20-51 Notes Red. LCW Plotted ____ Date ____
X-Sec. No. ____ Date 7-31-51 Notes Chkd. T.M.I. Checked ____ Date ____
Job No. 8412 Division No. V Survey of Beach Erosion Studies
Survey by F.H.B. Notes E.R.V. Date 7-6-51
Map No. ____ Indexed ____ Date ____

F.B. 1294 Pg. 213

F. B. 1294 Pg. 214

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

Survey of Beach Erosion Studies Date 7-20-51 Date _____ No. _____

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

Indexed [illegible] Date 7-6-51 Date 7-31-51 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 240+00S		B. S.	H. I.	F. S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
1	RY	8:44 0744	27.3 26.5 26.9	26.8	2.1	24.7	
2	R		25.2 25.8	25.8	2.1	23.7	
3	Y		24.1 24.9	24.7	2.2	22.5	
4	RY	8:48 0748	23.1 23.2	23.7	2.2	21.5	
5	R		22.0 22.0	22.4	2.2	20.2	
6	Y		20.9 20.6	21.3	2.3	19.0	
7	RY	8:52 0752	19.2 19.4	19.7	2.3	17.4	
8	R		18.2 17.8	18.6		16.3	
9	Y		16.9 16.4	17.2		14.9	
10	RY	8:54 0754	15.4 15.1	15.7	2.3	13.4	
11	R		13.9 13.7	14.3		12.0	
12	Y		12.7 12.8	13.0		10.7	
13	RY	8:56 0756	11.5 12.2	11.9	2.3	9.6	
14	R		10.6 10.8	11.1	2.3	8.8	
15	Y		9.4 9.8	9.9	2.4	7.5	
16	RY	8:58 0758	8.3 8.2	8.8	2.4	6.4	
17	R		7.9 8.1	8.0		5.6	
18	Y	9:04 0804	7.0	7.4	2.4	5.0	
19	RY						
20	R						

BOAT 240+00

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.		
235+00	3.4	20.6		17.15	F.B. 1284-12; 137 L&T. IN STRAND Walk	
4' LT			3.5	17.1	[illegible]	SHORE ∡ 90°
5' "			3.[illegible]	17.[illegible]	Beach	
60' "			2.8	17.8	"	
136 "			8.7	11.9	"	
217 "			8.[illegible]	11.8	"	
233			10.4	10.2	BRK	
234' T.P.	2.6	12.1	11.1	9.5	T.P. "	
2[illegible] LT			7.4	4.7	"	
31[illegible]			9.1	3.0	Water	
35[illegible] T.P.	3.4	5.1	6.4	1.7	T.P. ocean FLOOR	
3[illegible] LT			5.6	-3.5	" "	
4[illegible]5 "			8.4	-3.3	"	
4[illegible] "			9.4	-4.3	" "	
48[illegible]			9.6	-4.5	" "	

SHORE
235+00 S

Profile Notes Red. C.V.C. Plotted _____ Job No. 8412 Division No. 55 F.B. 1294 Pg. 215
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES (HERMOSA)
X-Sec. Notes Chkd. [illegible] Checked _____ Survey by C.V.C. Notes C.V.C. Date 7-6-51
No. _____ Date 7-23-51 Date _____ Map No. _____ Indexed [illegible] 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.		
230+00	2.42	19.31		16.9	F.B. 1284-12-138 L.Sct. ON STRAND WALK	
2' LT			25	[illegible]	edge Walk @ sand	
43			28	[illegible]	Beach	SHORE ∡ 90°
87			[illegible]	[illegible]	"	
109			67	[illegible]	"	
200			[illegible]	[illegible]	"	
224			93	[illegible]	"	
231 T.P.	1.4	[illegible]	12.0	[illegible]	T.P. "	
259			4	[illegible]	"	
320 T.P.	4.5	6.0	7.2	[illegible]	T.P. [illegible]	
357 LT			6.0	[illegible]	OCEAN	FLOOR.
4[illegible]			8.4	[illegible]	"	"
495			10.[illegible]	[illegible]	"	"
548			[illegible]	[illegible]	"	"
563			[illegible]	[illegible]	"	"

SHORE 230+00 S

F. B. 1294 Pg. 216 | 56 Job No. 8412 Division No. Notes Red. C.V.C. Plotted Profile
Survey of BEACH EROSION STUDIES Date Date No.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. [illegible] Checked X-Sec.
Indexed A. C. Johnson Date 7-6-51 Date 7-23-51 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
235+00	245+00	1	R&Y	9:19	89°17	
		2	R		90°08	
		3	Y		89°23	
		4	R&Y	9:21	89°21	
		5	R		90°02	
		6	Y		89°10	
		7	R&Y	9:28	89°28	
		8	R		90°08	
		9	Y		89°58	
		10	R&Y	9:31.5	90°00	
		11	R		89°35	
		12	Y		89°33	
		13	R&Y	9:36.5	89°59	
		14	R		90°10	
		15	Y		89°36	
		16	R&Y	9:40	89°16	
		17	R	9:44	89°42	

RANGE
235+00 S

Profile
No. ____ Date ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V
X-Sec. Date ____ Date ____ Survey of BEACH EROSION STUDIES
No. ____ Date ____ Notes Chkd. ____ Checked ____ Survey by F.H.B. Notes M.S. Date 7-6-51
Map No. ____ Date ____ Indexed Johnson Date ____

F.B. 1144 PG. 217

FORM 30[illegible] 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	
230+00	220+00	1	R & Y	9:58	90°35		
		2	R		90°57		
		3	Y		90°14		
		4	R & Y	10 03	90°21		
		5	R		90°10		
		6	Y		90°08		
		7	R & Y	10 06	90°26		
		8	R		90°11		
		9	Y		89°55		
		10	R & Y	10 10.5	89°[illegible]6		
		11	R		90°[illegible]5		
		12	Y		89°51		
		13	R & Y	10 13	89°52		
		14	R		89°52		
		15	Y		89°55		
		16	R & Y	10 18	89°45		
		17	R		90°17		
		18	Y	10:21	89°[illegible]8		

RANGE 230+00

F.B. 194 PG. 218 Job No. 8412 Division No. V Notes Red Plotted Date No. Profile
Survey of Beach Erosion Studies Date Checked Date X-Sec.
Survey by F.H.B. Notes M.S. Notes Chkd. Date No.
Indexed [illegible] Date

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
235+00	235+00	1	R-Y	9:19	54°-34'	.	
		2	R		51°-40'	.	
		3	Y		50°-30'	.	
		4	R-Y	9:21	48°-40'	.	
		5	R		46°-45'	.	
		6	Y		45°-48'	.	
		7	R-Y	9:28	45°-44'	.	
		8	R		44°-12'	.	
		9	Y		43°-13'	.	
		10	R-Y	9:32	41°-35'	.	
		11	R		41°-01'	.	
		12	Y		39°-41'	.	
		13	R-Y	9:37	37°-30'	.	
		14	R		36°-04'	.	
		15	Y		34°-40'	.	
		16	R-Y	9:41	32°-03'	.	
		17	R	9:45	39°-26'	. ?	

CUT IN
235+00 S

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. V F. B. 1294 Pg. 219
No. ____ Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. ____ Checked ____ Survey by E.H.R. Notes J.M. Date 7-6-51
No. ____ Date ____ Date ____ Map No. ____ Indexed ____ Date ____

76L298 307 4-50

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

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

Do not extend notes this side of this line.

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.		Remarks
220+00	230+00	1	R-Y	9:58	5[illegible] 4[illegible]		
		2	R		5[illegible] 47		
		3	Y		5[illegible] [illegible]		
		4	R-Y	10:03	49 27		
		5	R		[illegible]		
		6	Y		4[illegible] 31		
		7	R-Y	10:06	4[illegible] 38		
		8	R		4[illegible] [illegible]		
		9	Y		4[illegible] 33		
		10	R-Y	10:10	4[illegible] 45		
		11	R		40 [illegible]		
		12	Y		39 38		
		13	R-Y	10:13	3[illegible] [illegible]4		
		14	R		3[illegible] [illegible]		
		15	Y		33 [illegible]3		
		16	R-Y	10:13.5	3[illegible] [illegible]2		
		17	R		29 29		
		18	Y	10:21	27 [illegible]		

CUT IN 230+00

F. B. 1294 Pg. 220
Job No. 8412 Division No. V Notes Red. Plotted Profile
Survey of Beach Erosion Studies Date Date No.
Survey by F.H. Blanchard Notes J. Maldonado Notes Chkd. Checked X-Sec.
Indexed E. C. J[illegible] Date 7-6-51 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 235+00 S

#	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
				28.0				
1	RY	9:18		26.5	27.0	2.6	24.4	
		08 18		27.2				
2	R			25.5	26.1	2.6	23.5	
				25.6				
3	Y			24.0	24.5	2.7	21.8	
				24.3				
4	RY	9:21		22.8	23.3	2.7	20.6	
		08 21		22.2				
5	R			21.2	21.5		18.8	
				21.0				
6	Y			19.8	20.2		17.5	
				20.3				
7	RY	9:27		18.5	19.1	2.7	16.4	
		08 27		19.3				
8	R			17.5	18.1	2.7	15.4	
				17.9				
9	Y			16.1	16.7	2.8	13.9	
				16.8				
10	RY	9:32		15.0	15.6	2.8	12.8	
		08 32		15.1				
11	R			13.8	14.2	2.8	11.4	
				14.1				
12	Y			12.5	13.0	2.9	10.1	
				12.7				
13	RY	9:36		11.0	11.6	2.9	8.7	
		08 36		12.0				
14	R			9.8	10.6		7.7	
				11.0				
15	Y			8.6	9.6		6.7	
				9.8				
16	RY	9:41		7.8	8.3	3.0	5.3	
		08 41		8.5				
17	R	9:45		6.5	7.3	3.0	4.3	
		08 45						
18	Y							
19	RY							
20	R							

BOT
235+00S

Profile Notes Red. [illegible] Plotted _____ Job No. 8412 Division No. V F. B. 1294 Pg. 22
No. _____ Date 7-22-57 Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. T.M.L. Checked _____ Survey by Fish & Notes E.R.K. Date 7-6-57
No. _____ Date 7-31-57 Date _____ Map No. _____ Indexed _____ Date _____

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

F. B. 1294 Pg. 22 | Job No 2412 Division No. X Notes Red. Level Plotted 7-11-57 Profile
Survey of Beach & Ensley Date 7-20-57 No. X-Sec.
Survey by Ch. Party Notes Valley Date 7-6-57 Notes Chkd. T. M. Checked Date 7-31-57 No.
Indexed F. C. Johnson Date 7-6-57

STATION 23+62.5

#	Color	Time	B. S.	H. I. Meas. Depth	F. S. Bottom	ELEV. Ht. Tide	Adj. Depth	Remarks
				29.1				
1	RY	9:58		27.5	28.0	3.1	24.9	
		0858		27.5				
2	R			26.0	26.5	3.1	23.4	
				26.3				
3	Y			24.8	25.3	3.2	22.1	
				25.0				
4	RY	10:02		23.8	24.2	3.2	21.0	
		09 02		24.2				
5	R			22.3	22.9	3.2	19.7	
				21.2				
6	Y			20.9	21.0	3.3	17.7	
				20.7				
7	RY	10:05		19.8	20.1	3.3	16.8	
		09 05		20.3				
8	R			18.5	19.1		15.8	
				19.5				
9	Y			17.5	18.2		14.9	
				17.8				
10	RY	10:09		16.5	16.9	3.3	13.6	
		09 09		17.7				
11	R			15.3	16.1	3.3	12.8	
				16.0				
12	Y			13.9	14.6	3.4	11.2	
				14.3				
13	RY	10:12		12.5	13.1	3.4	9.7	
		09 12		12.5				
14	R			11.1	11.6	3.4	8.2	
				11.6				
15	Y			9.6	10.3	3.4	6.9	
				10.3				
16	RY	10:17		8.5	9.2	3.5	5.7	
		09.17		9.1				
17	R			7.5	8.0		4.5	
				9.3				
18	Y	10:21		6.5	7.4	3.5	3.9	BOAT 230+00
		09 21						
19	RY							
20	R							

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.		
225+00	28	19.8		16.9		F.B. 1284 - 12, 151
						L.S. IN STRAND WALK
5' LT			29	16.9		Edge Walk SHORE ∡ 90°
6' "			33	16.5		Bench
4[illegible] "			33	16.5		"
87 "			50	14.8		
[illegible] "			72	12.6		
198 "			84	11.4		
215			96	10.2		
231 T.P.	23	10.2	1[illegible]	7.9	T.P.	
267 LT			5.5	4.7		Water
300 T.P.	3[illegible]	6.8	7.3	2.9	T.P.	[illegible] Floor
347 LT			5.8	1.0		" "
3[illegible]			7.6	-0.8		" "
42[illegible]			8.8	-2.0		" "
47[illegible]			10.8	-4.[illegible]		" "
4[illegible]			10.7	-3.9		" "

SHORE
225+00 S

Profile Notes Red C.V.C. Plotted _____ Job No. 8412 Division No. 57 F.B. 1294 PG. 223
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES - (HERMOSA)
X-Sec. Notes Chkd [illegible] Checked _____ Survey by C.V.C. Notes C.V.C. Date 7-6-51
No. _____ Date 7-23-51 Date _____ Map No. _____ Indexed [illegible] Date _____

F. B. 1294 Pg. 224 | 58 Job No. 8412 Division No. _____ Notes Red. C.V.C. Plotted _____ Profile

Survey of BEACH EROSION STUDIES (HERMOSO) Date _____ Date _____ No. _____

Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. LCW Checked _____ X-Sec.

Indexed [illegible] Date 7-6-51 Date 7-23-51 Date _____ No. _____

STATION	B. S.	H. I.	F. S.	ELEV.	
SHORE 220+00 S					
					SHORE ∡ 90°

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
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 OH	#	Color	Time	Hor. Ang.	Remarks
225+00 215+00	1	R & Y	10 33.5	89°49	
	2	R		90°44	
	3	Y		90°06	
	4	R & Y	10 37.5	9014	
	5	R		9014	
	6	Y		9014	
	7	R & Y	1042.5	90°00	
	8	R		90°48	
	9	Y		90°10	
	10	R & Y	1047.5	90°08	
	11	R		89°52	
	12	Y		9030	
	13	R & Y	1050	9008	
	14	R		90 21	
	15	Y		89°49	
	16	R & Y	10:53.5	8956	
	17	R		90°30	
	18	Y		90°00	
	19	R & Y	1058	90 29	

RANGE
225+00 S

Profile Notes Rod Plotted Job No. 8412 Division No. V F. B. 1294 Pg. 22
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by E.H.B. Notes M.S. Date 7-6-51
No. Date Date Map No. Date

76L298 307 4-50

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

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

Do not extend notes this side of this line.

F. B. 1294 Pg. 226 Job No. 8412 Division No. V Notes Red. Y Plotted Profile No.
Survey of Beach Erosion Studies Date 7-6-51 Date X-Sec. No.
Survey by E.H.B. Notes M.S. Notes Chkd. Checked
Indexed E. C. Job Date Date Date

STATION		B. S.	H. I.	F. S.	ELEV.		
Inst. At	Sight On	#	Color	Time	Hor. Ang.	Remarks	
220+00	230+00	1	R-Y	11 08	89 38		
		2	R		89 34		
		3	Y		89 38		
		4	R-Y	11 15	89 42		
		5	R		89 18		
		6	Y		89 24		
		7	R & Y	11 19	89 32		
		8	R		90°02		
		9	Y		89°36		
		10	R & Y	11:22	89 38		
		11	R		89 50		
		12	Y		90 34		
		13	R & Y	11:29.5	90°06		
		14	R		89°52		
		15	Y		90°07		
		16	R & Y	11:33	90°29		
		17	R		90°32		
		18	Y		90°21		
		19	R & Y	11 37	90 01		

RANGE
220+00

761.998 307 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	
215+00	225+00	1	R-Y	10:34	57°-45'		
		2	R		53°-15'		
		3	Y		52°-33'		
		4	R-Y	10:38	51°-22'		
		5	R		50°-04'		
		6	Y		49°-02'		
		7	R-Y	10:43	45-40'		
		8	R		43°-27'		
		9	Y		43°-47'		
		10	R-Y	10:48	42°-28'		
		11	R		41-44'		
		12	Y		39°-51'		
		13	R-Y	10:50	38°-06'		
		14	R		36°-50'		
		15	Y		33°-38'		
		16	R-Y	10:54	31°-45'		
		17	R		29°-06'		
		18	Y		27°-05'		
		19	R		25°-34'		
			R-Y	10:58	24-04		

CUT IN
225+00S

Profile Notes Red. _____ Plotted _____ Job No. 8412 Division No. V
No. _____ Date _____ Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. _____ Checked _____ Survey by E.H.B. Notes J.M. Date 7-6-51
No. _____ Date _____ Date _____ Map No. _____ Indexed Job [redacted] Date _____

F.B. [illegible] No. 227

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. 1994 Pg. 228 Job No. 8412 Division No. V Notes Red Plotted Profile
Survey of Beach Erosion Studies Date No.
Survey by E.W. Blanchard Notes J. Maldonado Notes Child Checked X-Sec.
Indexed E. C. Job Date 7-2-51 Date Date No.

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. At / Sight On	#	Color	Time	Hor. Ang.		Remarks
230+00 220+00	1	R-Y	11:09	57° 17'	.	
	2	R		54 20	.	
	3	Y		50 20	.	
	4	R-Y	11:15	50 18	.	
	5	R		50° 53'	.	
	6	Y		49° 30'	.	
	7	R-Y	11:19	47 17	.	
	8	R		46° 11'	.	
	9	Y		44 06	.	
	10	R-Y	11:22	42° 49'	.	
	11	R		41° 27'	.	
	12	Y		39° 25'	.	
	13	R-Y	1130	38° 03'	.	
	14	R		35 14	.	
	15	Y		34 12	.	
	16	R-Y	11:34	31° 28'	.	
	17	R		31° 13'	.	
	18	Y		28 33	.	
	19	R-Y	11:38	24° 39'	.	

CUT IN 220+00

76L298 307 4-50

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Do not extend notes this side of this line.

STATION 225+00

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	RY	10:34 0934	29.5 28.0 27.5	28.5	3.6	24.9	
2	R		26.5 27.0	26.8	3.6	23.2	
3	Y		25.3 25.8	25.9	3.7	22.2	
4	RY	10:38 0938	24.3 24.5	24.8	3.7	21.1	
5	R		23.0 24.0	23.5		19.8	
6	Y		21.8 23.0	22.5		18.8	
7	RY	10:43 0943	20.3 20.0	21.2	3.7	17.5	
8	R		19.0 19.5	19.3		15.6	
9	Y		17.8 19.2	18.4		14.7	
10	RY	10:48 0948	16.8 17.3	17.6	3.8	13.8	
11	R		15.6 16.1	16.2		12.4	
12	Y		14.1 13.6	14.8		11.0	
13	RY	10:50 0950	12.6 13.0	12.9		9.1	
14	R		11.0 12.0	11.7	3.8	7.9	
15	Y		10.0 10.8	10.7		6.9	
16	RY	10:54 0954	8.8 9.3	9.5	3.8	5.7	
17	R		7.8 8.7	8.3		4.5	
18	Y		6.7 8.8	7.4		3.6	
19	RY	10:38 0958	5.8	6.8	3.8	3.0	
20	R						

BOAT
225+00

Profile No. ____ Notes Red. RCWS Plotted ____ Job No. 8412 Division No. V F. B. 1294 Pg. 229
Date 7-20-51 Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Chkd. TM.L Checked ____ Survey by E.H.B Notes E.R.K Date 7-6-51
Date 7-31-57 Date ____ Map No. ____ Indexed J.C. 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. 1294 Pg. 23 Job No. 84-12 Division No. K Notes Red. Laws Plotted
Survey of Beach Erosion Studies Date 7-20-57 Date
Survey by E.H.B. Notes Vol. 11 Pages Notes Chkd. T.M.L. Checked
Indexed C. Johnson Date 7-6-57 Date 7-31-57 Date
Profile No. X-Sec. No.

STATION 222+00 - C B. S. H. I. F. S. ELEV.

#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
			23.3				
1	RY	11:08	28.3	28.7	3.9	24.8	
		10 08	28.5				
2	R		27.0	27.5		23.6	
			28.5				
3	Y		26.0	26.8		22.9	
			27.0				
4	RY	11:14	24.6	25.4	3.9	21.5	
		10 14	25.2				
5	R		23.2	23.9	3.9	20.0	
			24.0				
6	Y		22.2	22.8	3.9	18.8	
			21.9				
7	RY	11:18	20.5	21.0	4.0	17.0	
		10 18	21.5				
8	R		19.5	20.2		16.2	
			19.5				
9	Y		18.0	18.5		14.5	
			17.9	17.2		13.2	
10	RY	11:21	16.8	17.1	4.0	13.1	
		10 21	17.9				
11	R		15.5	16.3		12.3	
			15.8				
12	Y		14.0	14.6		10.6	
			14.8				
13	RY	11:29	12.5	13.3	4.0	9.3	
		10 29	13.5				
14	R		11.5	12.2		8.2	
			12.0				
15	Y		10.5	11.0		7.0	
			11.0				
16	RY	11:33	9.0	9.7	4.0	5.7	
		10 33	11.0				
17	R		8.0	9.0		5.0	
			9.0				
18	Y		7.0	7.7		3.7	
			9.0				
19	RY	11:37	6.0	7.0	4.0	3.0	
		1037					
20	R						

BOAT
220+00

76L298 307 5-49

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Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.		
215+00	1 57	17 25		15 68	L&T in walk ~ FB 1284-11; 165	
8 5 L			1 7	15 6	Edge of walk on walk	
8 8 L			2 3	15 0	" " " on sand	
60 L			4 3	13 0	on sand	SHORE ∡ 90°
110 L			4 2	13 1	" "	
165 L			6 3	11 0	"	
⊙ 210 L T.P.	2.1	10 5	8 9	8 4	T.P. 1x2 fl. w. sand	
288			5 8	4 7	Water	
300 L T.P.	3 7	7.7	6 5	4 0	T.P. OCEAN	FLOOR
353			5 8	1 9	"	"
412			7 7	0 0	"	"
478			9 2	-1 5	"	"
528			10 6	-2 9	"	"
576			11 6	-3 9	"	"

SHORE 215+00 S

Profile No. ____ Notes Red. G.V.C. Plotted ____ Job No. 8412 Division No. ____ 59 F.B. 1294 PG. 231
Date ____ Date ____ Survey of BEACH EROSION STUDIES (HERMOSA)
X-Sec. No. ____ Notes Chkd. [illegible] Checked ____ Survey by ____ Notes RJMd Date 7-6-51
Date 7-23-51 Date ____ Map No. ____ Indexed [illegible] 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.		
210+00	1 89	17 68		15 79	L&T in wall ~FB	1284-11
42.8 LT			2 1	15 6	Edge of conc & edge of sand	
60 LT			2 4	15 3	on sand	SHORE ∡ 90°
135 LT			6 5	11 2	" "	
180 L			7 4	10 3	" "	
T.P. 220 LT	3 7	10 7	10 7	7.0	T.P. 1/2 ft. w sand	
254 LT			6 0	4 7		
305 T.P.	1 8	4 5	8 0	2 1	T P	Water
386 LT			4.5	0 [illegible]		Ocean FLOOR.
435 "			6 0	-1 [illegible]		" "
492 "			7 7	-3 [illegible]		" "
591 "			10 1	-3 [illegible]		" "

SHORE 210+00

F.B. 1294 PG. 232 60
Job No. 8412 Division No. Notes Red. C.V.C. Plotted No. Profile
Survey of BEACH EROSION STUDIES - HERMOSA Date Date X-Sec.
Survey by C.V. CRUMLEY Notes RTM & C.V.C. Notes Chkd. LCW Checked No.
Indexed L. C. Johnson Date 7-9-51 Date 7-23-51 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.

Profile Notes Red. Plotted. Job No. 8412 Division No. V 9 F. B. 1294 Pg. 23
No. Date Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. Checked Survey by F.H.B Notes M.S. Date 7-6-51
No. Date Date Map No. Traced Date

STATION	B. S.	H. I.	F. S.	ELEV.	Remarks
Inst. Sight At On	#	Color	Time	Hor. Ang.	
215+00	1	R&Y	11 47	89 46	
	2	R		89 32	
	3	Y		89 36	
	4	R&Y	11:50	88 52	
	5	R		89 15	
	6	Y		89 58	
	7	R&Y	11 53	89 59	
	8	R		89 45	
	9	Y		89 05	
	10	R&Y	11 55	90 14	
	11	R		90 00	
	12	Y		89°36	
	13	R&Y	11 59	89°49	
	14	R		90°00	
	15	Y		89°51	
	16	R&Y	12 02	89 54	
	17	R		90 13	
	18	Y		89 44	
	19	R&Y	12 05	90 04	
	20	R		90 03	

RANGE
215+00.5

76L298 307 4-50

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726 Los Angeles County Engineering Bldg.

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F. B. 1294 Pg. 234 Job No. Division No. Notes Red. Plotted Profile
Survey of Date Date No.
Survey by R. C. Johnson Notes Chkd. Checked X-Sec.
Indexed Notes Date Date No.
Date Date

STATION	B. S.	H. I.	F. S.	ELEV.		
Inst. Sight At On	#	Color	Time	Hor. Ang.	Remarks	
	21	Y		90°03		
	22	R & Y	12:08	90°00		

RANGE
21+00

Profile No. ____ Notes Red ____ Plotted ____ Job No. 8412 Division No. V F.B. 294 Pg. 25
Date ____ Date ____ Survey of Beach Erosion Studies
X-Sec. No. ____ Notes Ch'd ____ Checked ____ Survey by E.H.B. Notes J.M. Date 7-6-63
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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726 Los Angeles County Engineering Bldg.

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

Do not extend notes this side of this line.

STATION Inst. At	Sight On	B. S. #	H. I. Color	F. S. Time	ELEV. Hor. Ang.	Remarks
225+00	215+00	1	R-Y	11:48	56°-52'	
		2	R		55°-34'	
		3	Y		54°-24'	
		4	R-Y	11:50	52°-55'	
		5	R		51°-30'	
		6	Y		49°-40'	
		7	R-Y	11:53	48°-34'	
		8	R		47°-37'	
		9	Y		46°-26'	
		10	R-Y	11:55	44°-00'	
		11	R		43°-40'	
		12	Y		42°-40'	
		13	R-Y	12:00	41°-45'	
		14	R		40°-45'	
		15	Y		39°-48'	
		16	R-Y	12:02	38°-39'	
		17	R		36°-14'	
		18	Y		34°-07'	
		19	R-Y	12:06	32°-27'	
		20	R		29°-03'	

CUT IN
215+00.5

F. B. 1294 Pg. 236

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 E. C. Johnson Date 7-6-51 Date Date No.

CUTIN
215+00

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
225+00 215+00	21	Y		27-07	
	22	R-Y	12:09	25-17	

76L298 307 4-50

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Do not extend notes this side of this line.

STATION 215+00 S

#	Color	B. S. Time	H. I. Meas. Depth	F. S. Bottom	ELEV. Tide	Adj. Depth	Remarks
1	RY	11:48 10 48	29.2 28.4 28.6	28.7	4.1	24.6	
2	R		27.3 28.6	27.7		23.6	
3	Y		26.2 26.1	27.0		22.9	
4	RY	11:49 10 49	24.9 25.2	25.3	4.1	21.2	
5	R		23.9 24.1	24.3		20.2	
6	Y		22.9 23.7	23.3	4.1	19.2	
7	RY	11:52 10 52	22.0 22.8	22.6		18.5	
8	R		20.9 21.2	21.5		17.4	
9	Y		19.8 19.2	20.3	4.1	16.2	
10	RY	11:55 10 55	18.5 19.0	18.7		14.6	
11	R		17.5 18.0	18.0		13.9	
12	Y		16.5 17.0	17.0		12.9	
13	RY	11:59 10 59	15.3 16.4	15.9	4.1	11.8	
14	R		14.2 15.1	14.9		10.8	
15	Y		13.2 14.2	13.8		9.7	
16	RY	12:01 11 01	12.1 12.9	12.8	4.1	8.7	
17	R		11.0 11.7	11.6		7.5	
18	Y		10.0 10.8	10.6		6.5	
19	RY	12:04 11 04	9.0 9.6	9.6	4.1	5.5	
20	R		7.9	8.5		4.4	

BOAT
215+00 S

Profile Notes Red. RCWT Plotted _____ Job No. 8412 Division No. V F. B. 1294 Pg. 237
No. _____ Date 7-20-51 Date _____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. TMI Checked _____ Survey by F.H.B. Notes ERV Date 7-6-51
No. _____ Date 7-31-51 Date _____ Map No. _____ Indexed Date _____

1294 Pg. 238

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

Survey of Beach Erosion Studies Date 7-20-51 Date _____ No. _____

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

Indexed A. C. Johnson Date 7- Date 7-31-57 Date _____ No. _____

76L298 307 4-50

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STATION 215+00 S	B.S.	H.I.	F.S.	ELEV.		
#	Color	Time	Meas. Depth	Bottom	Ht. Tide	Adj. Depth	Remarks
21	Y		7.7	7.1	4.1	3.0	
22	RY	12:09	6.8	6.2	4.1	2.1	
23		11:09 S.	7.2				
			5.7				

BOAT

215+00

Profile No. _____ Notes Red. _____ Plotted _____ Job No. _____ Division No. _____ F.B. 7294 PG. 239

Date _____ Date _____ Survey of _____

X-Sec. No. _____ Notes Chkd. _____ Checked _____ Survey by _____ Notes _____ Date _____

Date _____ Date _____ Map No. _____ Indexed Johnson Date 7-18-51

J.N. 8412

BEACH EROSION STUDIES.

TORRANCE BEACH.

PROFILE OF STATIONS ON BEACH CONTROL LINE

JUNE 22, 1951

ELEV.

C.V. CRUMLEY
J.N. DOUGHERTY
W.D. BAY
H.J. ROBBINS

F.S.

R.P. EVANS.

H.I.

B.S.

STATION

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76L298 307 5-49

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.

PROFILE

Do not extend notes this side of this line.

STATION	B. S.	H. I.	F. S.	ELEV.	MEAN LOW LOW WATER DATUM (= M.S.L. + 2.80)
B.M	3.07	23.00		1[illegible]	RIVIERA CLUB - L&T. TOP North BANNISTER POST. END of STAIRWAY ON BEACH. 125.25 S.E. of S-27. Elev. 17.131 M.S.L. + 2.80 = 19.93 M.L.L.W. F.B. 1184-20
S-27-X PT. R.M. #2	1.98	19.08	5.90	17.10	R.M. #2 - Elev. 14.306 M.S.L. + 2.80 = 17.106 C.S. MON. 12" DN. - TOP SL. 42.055 S.E. of S-27. TIES F.B. 1184-20
388+19.02 S-27			6.50	12.58	BT. SPK. IN 4X4 - ± 2' DN. TIES F.B. 1184 930-22
T.P. 393+19	5.92	18.43	6.57	12.51	T.P. 1X2 STK. 6" DN. ON Beach - 1X2 TIE ON BNK 21.0 X
398+19 T.P	5.07	16.27	7.23	11.20	T.P. 1X2 " " (53.0 To 1X2 on Bank)
403+19 T.P.	12.05	22.12	6.20	10.07	T.P. 1X2 " "
SET B.M.	1.59	22.46	1.25	2[illegible].7	SET B.M. SET BT. SPK. TOP Piling S.W. COR. GUARD STA. #1 ON TORRANCE BEACH - W. of VIA RIVIERA ST.
T.P.	3.03	15.40	10.09	12.37	T.P. 1X2 ON Beach 27' E. & 6' N. of 408+19
T.P. 408+19	4.47	13.94	5.93	9.47	T.P. - 1X2 "
413+19 - T.P	4.22	13.34	4.82	9.12	T.P. - 1X2 "
418+19 T.P	5.39	12.85	5.88	7.[illegible]6	T.P. - 1X2 " - 15' ± N. of PT. of BLUFF & 5' W.
423+19			1.67	11.[illegible]	—— CROSS - ON ROCK.
R.M. #2 - (S-28) (S-28 = 422+48.03)	0.87	12.44	1.28	11.57	R.M. #2 - Elev. 8.72 M.S.L. + 2.80 = 11.52 M.L.L.W. A C.S. 2" I.P. WITH BRASS CAP (CONC. BROKEN) ON LINE PROD. FROM NORTH. 6.37 S. of S-28. - UP ± 12"
R.M. #1 (S-28)	1.26	13.29	0.41	12.03	R.M. #1 - Elev. 10.109 - M.S.L. + 2.80 = 12.909 - M.L.L.W. A C.S. BRASS CAP MON. 18.64' N.E. OF S-28). - AT BASE OF BLUFF.
T.P.	8.15	14.37	7.07	6.[illegible]2	T.P. ON ROCK

F.B. 1294 PG. 240 2

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

Survey of BEACH EROSION STUDIES (TORRANCE BEACH) Date ____ Date ____ No. ____

Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. ____ Checked ____ X-Sec. ____

Indexed A. C. Johnson Date 6-22-51 Date ____ Date ____ No. ____

76L298 307 5-49

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PROFILE

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STATION	B. S.	H. I.	F. S.	ELEV.	
		14 37			
T.P. 428+19	1.73	11.24	4.86	9.56	POINTED ROCK IN MOUND
T.P.	7.96	16.51	2.69	8.55	→ TOP FLAT ROCK 2'X 4'S. of STA USED FOR X-SECTIONS
			5.37	11.14 5.87	4X4 - 18" up - 3' W. of BLUFF
388+19.02 (S-27)		JUNE	26,	1951	
R.M.#2	5.02	22.13		17.11	R.M #2 - Elev 14.306 M.S.L. + 2.80 = 17.106 M.L.L.W. C.S. MON. Toe SL - 42.055 S.E. of S-27 4PT. TIES - F.B. 1184-20 F.B. 930-22.
388+00			8.18	13.95	1X2 ON BEACH
383+00 T.P.	7.22	19.42	9.93	12.20	T.P. 1X2 on BEACH
T.B.M.	3.97	20.79	2.60	16.82	T.B.M. - BT. SPK. TOP GUARD HOUSE #2 - 1X2 ON Beach
378+00			8.52	12.27	
373+00			6.49	14.30	1X2 on Beach ~M.S.L.
B.M.#1-I	4.00	20.61	4.20	16.59	.61 B.M.#1-I - Elev. 13.81 + 2.80 = 16.61 M.L.L.W. Ed. BT. SPK. TOP W. WALL N. END RAMP AT AVE "I" & ESPLANADE. F.B. 838-170
368+00			5.00	15.61	1X2
S-26 367+44.05	4.97	18.94	6.64	13.97	S-26 PT. Elev. 13.97 - NEW C.S. MON AS REPLACED BY W.S COWHERD M.B. 838-62. (OLD ELEV. 11.017 F.B. 838-167)
363+00 T.P.	4.30	18.82	4.42	14.52	T.P - 1X2 ON Beach
358+00 T.P.	1.28	15.27	4.83	13.99	T.P. 1X2 " "
353+00 T.P.	7.22	20.86	1.63	13.64	T.P. 1X2 ON "
B.M.#1-C			0.55	20.31	B.M. #1-C. - F.B. 838+154 - DESC. NEXT Pg.

838-see Pg 167

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Date Survey of BEACH EROSION STUDIES TORRANCE BEACH
X-Sec. Notes Chkd. Checked Survey by C.K. CRUMLEY Notes F.B. 838 Date 6-22-51
No. Date Date Map No. Indexed Date

F.B. 838 Pg. 141

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F.B. 1413-149

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7-71

47 20.59

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STATION	B. S.	H. I.	F. S.	ELEV.		
						✓ M.L.L.W.
B.M. #1-C.	0.52	20.83 ✓		20.31	B.M. #1-C. Elev. 17.51 Mean SEA Level + 2.80 = 20.31 AVE. "C" & ESPLANADE - STAIRWAY. - BT. SPK. IN Top of S. CURB of STAIR - 2.9' DOWN FROM 8th HANDRAIL POST; ± 9' up FROM Beach end.	
348+00 T.P.	5.11	18.11 ✓	7.83	[illegible]	T.P. 1 X 2 ON Beach	
343+00 T.P.	9.91	24.00	4.02	[illegible]	T.P. 1 X 2 ON "	
340+50			3.61	20.39 ✓	PK. SPK. & T - IN Service RD ON Beach	
338+50			1.56	22.44 ✓	WIRE SPK. & T.	
B.M. RB-5			0.58	23.42 ✓	B.M. RB-5 - Elev. 20.595 M.S.L. F.B. 838-10; 179. + 2.80 = 23.40 M.L.L.W. - ON SERVICE RD. AT END OF PAV. opposite KNOB HILL AVE. BT. SPK. IN L'd IN TOP Conc. Wall - 1.5' N. of S. end. AT TOILET BLDG.	

F.B. 294 PG. 742

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

Profile No. | Notes Red. | Plotted | Job No. 8412 | Division No.
X-Sec. No. | Notes Chkd. | Checked | Survey of | Survey by | Notes | Date | Map No. | Indexed | Date

J.N. 8412

BEACH EROSION STUDIES

(REDONDO BEACH)

PROFILE

OF

CONTROL LINE

FROM

STA. 296+65 TO 262+65.

JULY 3, 1951

G.V. CRUMLEY
W.D. BAY J.N. DOUGHERTY
H.J. ROBBINS
R.P. EVANS

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

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7&L258 307 4-50

76L298 307 4-50

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Profile No. ____ X-Sec. No. ____
Notes Red. C.V.C. Plotted ____ Date ____
Job No. 8412 Division No. ____ Notes Chkd. ____ Checked ____ Date ____
Survey of BEACH EROSION STUDIES. Date ____
Survey by C.V. CRUMLEY Notes C.V.C. Date 7-3-51
Indexed C. Johnson Date 7-23-51

STATION	B. S.	H. I.	F. S.	ELEV.	PROFILE NOTES
B.M.	11.81	24.51		12.70	B.M. Elev. 12.70 F.B. 589-15 2. BT. SPK. N. END 2ND STEP FROM BOTTOM ON SOUTH SIDE REDONDO PIER. M.L.L.W. DATUM
T.P.	4.51	24.04	4.98	19.53	T.P. F.B. 930 — 61?
S-17	4.58	24.03	4.59	19.45	S-17 - Large BT. SPK. & W. IN BLACK TOP DECK - S.W. COR. MINIATURE RAILROAD YARD.
			4.49	19.54	(615 SPK. S-17?)
T.P. 296+65	3.25	23.32	3.96	20.07	T.P. NEW SQ. SPK. & T. IN PAV. opposite MERRY-GO-ROUND
			10.71	12.61	PT. of Rock - Cable ANCHOR ON BRK-Water opposite 296+65 ± — 20.032 - F.B. 1184-15 — COLD PK. SPK. 18.676 — " "
S-16			4.76	18.46	S-16 - Large BT. SPK & W. ON PIER
			10.87	12.45	PT. of Conc. BLOCK. opp. STA. 292+65
292+65 T.P.	6.42	25.93	3.81	19.51	T.P - Sq. SPK. & T. IN PARKING LOT
288+65			9.67	16.26	X ON ROCK ± 4' N. of Conc. Wall
T.B.M.	1.76	24.97	2.72	23.21	T.B.M - L & T. ON LINE 65. ± N. of S-15
284+65 T.P.	6.05	19.27	11.75	13.22	T.P. - CROSS - ON ROCK
280+65			8.10	11.17	" " CONC. SLAB
T.P.	7.95	19.28	7.99	11.33	T.P. PT. of Rock ON " " of STA.
276+65 T.P.	5.80	21.73	3.35	15.93	T.P. CROSS ON Rock
272+65			5.18	16.55	" " "
T.P.	3.23	21.05	3.91	17.82	T.P.
268+65			2.73	18.32	CROSS ON side of Rock

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STATION	B. S.	H. I.	F. S.	ELEV.	PROFILE NOTES.
					M.L.L.W. DATUM
T.P.	1.56	21 05 ~~20 79~~	182	19.23	T.P. PT. of Rock ABOVE "8" of 268+65
264+65	4.91	21 31 ~~21 41~~	439	16 40 ~~16.50~~	X ON Walk (HAS SETTLED) see F.B. 1290-57 EL. 16.63 F.B. 1184-14
262+65			476	16.55 ~~16.65~~	" " " (EL. 16.67 F.B. 1290-57

Profile Notes Red. C.V.C. Plotted _____ Job No. 8412 Division No. _____ F.B. 1294 No. 245
No. _____ Date _____ Date _____ Survey of BEACH EROSION STUDIES (REDONDO)
X-Sec. Notes Chkd. [illegible] Checked _____ Survey by C.V.C. Notes C.V.C. Date 7-3-51
No. _____ Date 7-23-51 Date _____ Map No. _____ Indexed Johnson Date _____

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254+65
258+65
262+65

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STATION	B. S.	H. I.	F. S.	ELEV.		
254+65±	1 3	18.6		17 [illegible]	CROSS ON WALK Page 186A	
T.P	6 3	16 4	8 5	10 1	T.P.	
T.B.M			6 7	9.7	T.B.M.-SPK. TOP PILING 12" up S. Side RD TO Guard	HOUSE ON PIER.
254+65	(PAGE 186A)		7 2	9 2	TOP of EDISON ROCK BRK-Water ON RANGE LINE	
258+65	(PAGE 185A)		5 5	1[illegible] 9	" " " " " "	
262+65	(Page 181A)		5.3	11 1	" " " " " " "	

-EDISON CO. BREAKWATER-
ELEV. TOP CTR. AT RANGE
LINES AS SHOWN
C.V.C.-8-20-51

F.B. 1292 Pg. 246 Job No. 8412 Division No. Notes Red. Plotted Profile
Survey of BEACH EROSION STUDIES (REDONDO) Date Date No. X-Sec.
Survey by C.V. CRUMLEY Notes C.V.C. Notes Chkd. Checked
Indexed Date 8-20-51 Date Date No.

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STATION	B. S.	H. I.	F. S.	ELEV.	M.L.L.W. DATUM	PROFILE NOTES
165+00 (S-8)	5030	22 517		17 487	BM. 165+00 (S-8) "T.P. - L & T at ∡ Pt = Sta 164+98.03" per F.B. 1284-10 - This L&T is in the conc. prmt. of "Strand Walk"	
160+00	5015	22 512	5 020	17 497	chis. "+" in walk (Elev = 17.48 per FB 1284-10)	
T.P.	5582	22 584	5 510	17 002		
152+50	5 773	18 937	9 410	13 164	1x2 & n (set 7-6-51 by R.J.M.) this stk replaces point previously set	
147+50	5010	19 017	4 930	14 007	Fd 1x1	
142+50	4430	17 712	5 735	13 282	Fd 1x1	
137+50	5400	19 287	3 825	13 887	Fd 1x1	
132+50	5835	20 672	4 450	14 837	Fd 1x1	
129+39.31 (S-7)	11 702	26 419	5 955	14 717	BM 129+39.31 (S-7) "T.P. Mon at ∡ Pt. on beach dn 2' Elev = 14.726" per FB 1284-10	
129+39.31 (S-6)	4968	29 440	1 947	24 472	BM 129+39.31 (S-6) "T.P. Mon at Ang. Pt. - 1" IP & Cap set in conc." Elev. = 24.469 per FB 1284-10	
127+50	6360	30 732	5 068	24 372	Fd 1x1	

Profile No. ____ Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1294 Pg. 247
X-Sec. No. ____ Date ____ Date ____ Survey of BEACH EROSION STUDIES
Notes Chkd. ____ Checked ____ Survey by GVC. MITCHEL Notes ____ Date 7-5-51
Date ____ Date ____ Map No. ____ Indexed ____ Date ____

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STATION	B. S.	H. I.	F. S.	ELEV.	PROFILE NOTES.
		30 732			M.L.L.W. DATUM
122+50	7 042	32 496	5278	25 454	1x1
117+50	2 523	30 519	4 500	27 996	1x2
112+50	5233	30 740	5012	25 507	1x2
107+50	5181	31 043	4 878	25 862	Set 1x2
102+50	4658	30 901	4 800	26 243	1x2
100+45 12 (S-5)	760	32 89	5560	25 341 (25 [illegible])	BM 100+45 12 (S-5) 1" T.P. Mon at ¼ Pt. c spk set in conc Elev = 25.288 per FB 1284-8
97+50	6 21	33 19	5 91	26 98	1x2
92+50	4 88	32 99	5 08	28 11	1x2
87+50	1 13	29 11	5 01	27 98	1x2
			11 52	17 59 (17 630)	N.W. CORNER OF CONC. ANCHOR WALL on BEACHEND OF STORM DRAIN AT W. END OF 27th St - Fd Lead. per FB 1413-60 EL = 17.630

F.B. 1298 Pg. 248 Job No. 8412 Division No. Notes Red. C.V.C. Plotted No. Profile
Survey of BEACH EROSION STUDIES (MANHATTAN) Date Date X-Sec.
Survey by C.V.C. & Mitchel Notes Notes Chkd. [illegible] Checked No.
Indexed E. C. Johnson Date 7-[illegible]-51 Date 7-23-51 Date

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+ 5.75

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STATION	B. S.	H. I.	F. S.	ELEV.	M.L.L.W. DATUM PROFILE NOTES
	11 19	2882		17 63	N.W. Corner of Conc. anchor wall on Beach end of 27th st storm drain Fd Lead. per F.B 1413-60 Elev -17.63
T.P.	5 97	3283	1 96	26 86	
82+50	5 24	34 04	4 03	28 80	1X2
77+50	1 96	33 91	5 09	28 95	1X2
75+00	5 89	34 08	5 72	28 19	U.S. Br. Cap. Mon Elev. 28.187 - F.B. 1284-8
72+50	6 22	34 36	5 94	28 14	old 1X2
67+50	5 07	34 54	4 89	29 45	new 1X2
62+50	4 88	33 18	6 24	28 30	old 1X2 (F.B. 1413-56)
U.S. 3646	1 41	32 05	2 55	30.63	U.S. 3646 - Elev. 30641 F.B. 1284-7 =Y-614 - BRONZE TABLET - S. end 2ND STEP FROM BOTTOM. CONC. STEPS END of ROSECRANS AVE.
57+50	6 40	34 20	4 25	27.80	old 2X2
S-2	5 59	34 24	5 59	28.61	S-2 - BRASS CAP MON Elev. 28.649 F.B. 1284-7
52+50	4 25	33.21	5 28	28-96	0.40 BT SPK IN PAV.
47+50	5 23	34 25	4 19	29.02	NEW N & T - IN PAV.
			7 29	26.96	Fd U.S.G.S. BRASS PLATE IN S. END 2ND STEP FRONTING STEPS LEADING TO BEACH ± 300' N. of EL PORTO Toilet BLDG. NEAR STA. 42+00 NO REF.
42+50	5 75	34 39	5 61	28 64	1X2
37+50	5 03	35 20	4 22	30.17	NEW 1X2 IN HOLE
32+50	4 74	35 65	4 29	30 91	old 1X2 IN HOLE
27+50	4 59	34 20	6 04	29 61	old 1X2 fl.
S-1			5 53	28 67	28.627 F.B. 1284-6 Br. Cap Mon. Elev. 28.66 - F.B. 1413-55
22+50	4 12	33 88	4 54	29 66	

Profile Notes Red. Plotted Job No. 8442 Drawn No.
No. Date Date Survey by E.P.S. & Assoc. Date
X-Sec. Notes Chkd. Checked Survey by L.A.C.E. Date
No. Date Map No. Inspected Date

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1294

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

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

	B. S.	H.	F. S.	ELEV.	N. L. L. W. DATUM	PROFIL
		33 88				
17+50	3 73	34 40	3 21	30 67	old 1X2	
12+50	0 54	29 99	4 95	29 45	Fd. L & N. IN BLACK TOP PAV. ± 50' N of Oil Co. GUARD HSE	
US. #2785	12.00	31.57	10 40	19 57	U.S. #2785 - Elev 19.572 F.B. 1284-5,6. STANDARD Oil Co. PIER & REFINERY - A ST'D BRASS DISC. IN N.E. COR. CONC. WALL - PIT E. SIDE of PUMPING PLANT BLDG	
8+00	2 59	33 42	0 74	30 83	NEW 1X2	
4+00	3 25	32 63	4 04	29 38	" "	
0+00	6 17	32 10	6 70	25 93	BRASS CAP MON. 00 N & S.	
5+75 N.	5 54	31 30	6 34	25 76	old 1X2 FL.	
5+00			5 53	25 77	old 1X2 FL.	
0+00			5 35	25 95	0+00 N. & S. - Elev 25.926 F.B. 1413-5 5 A 4" BRASS CAP MON. 18" D.N. TIES F.B. 883-7 F.B. 978-37 F.B. 930-7	